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Report No.: 0394/13/ED/0358

**Monthly EM&A Report**

**May 2017**

**Client :** China International Water & Electric Corporation  
**Project:** Providing Sufficient Water Depth for Kwai Tsing Container  
Basin and its Approach Channel  
**Contract No.:** CV/2013/04  
**Report No.:** 0394/13/ED/0358

Project Proponent:

Civil Engineering & Development Department  
101 Princess Margaret Road,  
Homantin,  
Kowloon, Hong Kong.

Prepared by: Wingo So

Reviewed by: Cyrus Lai

Certified by:



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Colin Yung  
Environmental Team Leader for  
MaterialLab Consultants Limited

Ref.: CEDDWKTBEM00\_0\_0324L.17

12 June 2017  
By Post and Fax (2419 6218)

Mott MacDonald Hong Kong Ltd.  
20/F, AIA Kowloon Tower,  
Landmark East,  
100 How Ming Street,  
Kwun Tong, Kowloon

Attention: Mr Chan T P, Pan, Engineer's Representative

Dear Mr Chan,

**Re: Agreement No. CE 63/2008 (CE)  
Dredging Works in Kwai Tsing Container Basin and its Approach Channel  
– Investigation, Design and Construction)**

**Contract No. CV/2013/04  
Dredging Works in Kwai Tsing Container Basin and its Approach Channel  
Verification of Monthly EM&A Report for May 2017**

Reference is made to the Environmental Team's submission of the Monthly Environmental Monitoring & Audit Report for May 2017 (ET's Report No. 0394/13/ED/0358) received by e-mail on 7 June 2017.

We write to verify the captioned report in accordance with Condition 5.4 of EP-426/2011/A.

Thank you very much for your kind attention and please do not hesitate to contact our Mr Andy Wong or the undersigned should you have any queries.

Yours faithfully,  
For and on behalf of  
Ramboll Environ Hong Kong Limited



Y H Hui  
Independent Environmental Checker

Cc:	MMHK	Mr. C M Howley	2827 1823 (by fax)
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	CIWE	Mr. K.O. Leung and Mr. Lam Wai-hung	2419 6028 (by fax)

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## MATERIALAB CONSULTANTS LIMITED

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**EXECUTIVE SUMMARY**

i. This is the Thirty Seventh Monthly Environmental Monitoring Audit (EM&A) Monthly Report – May 2017 for Contract No. CV/2013/04 – Dredging Works in Kwai Tsing and its Approach Channel (Agreement No. CE63/2008 – Providing Sufficient Water Depth for Kwai Tsing Container Basin and its Approach Channel). The dredging works commenced on 23 April 2014. This report presents the environmental monitoring and audit works conducted from 23 April 2017 to 22 May 2017.

ii. Construction Activities for the Reporting Period

During this reporting period, the principal work activities included:

- Preparation Works of Dredging at Portion A / Zone 1A, Zone 2B1, 2B2 and 2C1 in EP
- Dredging at Portion A / Zone 1A, Zone 2B1, 2B2 and 2C1 in EP

Note: Hotspot area was completed excepted hard materials and buffer zone was almost completed except known highspot and hard materials

iii. Water Quality Monitoring

Routine impact water quality monitoring at 9 designated monitoring stations namely C1A, C2A, G2, SR2, SR3, SR4, SR5, SR12, SR13 were conducted during the reporting period. Exceedances of NH3-N (in-situ & Lab), TIN (in-situ & lab), TSS and *E.coli* were recorded at various monitoring stations, detail of exceedance are summarized in **Table I and II**. However, investigation indicated these exceedances were not related to the Project works.

**Table I Summary of Water Quality Exceedances – Routine Impact Monitoring (In-situ)**

Station	Exceedance Level	DO (S&M)		DO (B)		Turbidity		NH3-N		UIA		TIN		Total	
		E	F	E	F	E	F	E	F	E	F	E	F	E	F
SR2	Action	0	0	0	0	0	0	0	0	0	0	-	-	0	0
	Limit	0	0	0	0	0	0	0	0	0	0	-	-	0	0
SR3	Action	0	0	0	0	0	0	0	1	0	0	-	-	0	1
	Limit	0	0	0	0	0	0	0	0	0	0	-	-	0	0
SR4	Action	0	0	0	0	0	0	0	0	0	0	-	-	0	0
	Limit	0	0	0	0	0	0	0	0	0	0	-	-	0	0
SR5	Action	0	0	0	0	0	0	-	-	-	-	0	0	0	0
	Limit	0	0	0	0	0	0	-	-	-	-	12	12	12	12
SR12	Action	0	0	0	0	0	0	0	0	0	0	-	-	0	0
	Limit	0	0	0	0	0	0	0	0	0	0	-	-	0	0
SR13	Action	0	0	0	0	0	0	-	-	-	-	-	-	0	0
	Limit	0	0	0	0	0	0	-	-	-	-	-	-	0	0
Total	Action	0	0	0	0	0	0	0	1	0	0	0	0	1	
	Limit	0	0	0	0	0	0	0	0	0	0	12	12	24	

**Table II Summary of Water Quality Exceedances – Routine Impact Monitoring (Laboratory Analysis)**

Station	Exceedance Level	Suspended Solids		BOD <sub>5</sub>		<i>E. coli</i>		NH <sub>3</sub> -N		UIA		Synthetic Detergent		TIN		Total	
		E	F	E	F	E	F	E	F	E	F	E	F	E	F	E	F
SR2	Action	1	0	-	-	-	-	0	0	0	0	-	-	-	-	1	0
	Limit	0	0	-	-	-	-	0	0	0	0	-	-	-	-	0	0
SR3	Action	1	0	-	-	-	-	0	1	0	0	-	-	-	-	1	1
	Limit	0	0	-	-	-	-	0	0	0	0	-	-	-	-	0	0
SR4	Action	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0
	Limit	2	0	0	0	0	1	0	0	0	0	0	0	-	-	2	1
SR5	Action	2	0	-	-	-	-	-	-	-	-	-	-	0	0	2	0
	Limit	0	0	-	-	-	-	-	-	-	-	-	-	12	12	12	12
SR12	Action	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0
	Limit	2	0	0	0	0	0	0	0	0	0	0	0	-	-	2	0
SR13	Action	0	0	-	-	-	-	-	-	0	0	-	-	-	-	0	0
	Limit	0	0	-	-	-	-	-	-	0	0	-	-	-	-	0	0
Total	Action	4	0	0	0	0	0	0	1	0	0	0	0	0	0	5	
	Limit	4	0	0	0	0	1	0	0	0	0	0	0	12	12	29	

Among the 9 monitoring stations, supplementary 24-hr water quality monitoring was also conducted at 4 of the stations, which are SR4, SR5, SR12 and SR13. No exceedance was recorded in the reporting month. Number of exceedances recorded in the reporting month at each impact station is summarized in **Table III**.

**Table III Summary of the Exceedances Recorded in Reporting Month – 24-hr Monitoring**

Station	Exceedance Level	Turbidity	DO	NH <sub>3</sub> -N	Total
SR4	Action	0	0	0	0
	Limit	0	0	0	0
SR5	Action	0	0	-	0
	Limit	0	0	-	0
SR12	Action	0	0	0	0
	Limit	0	0	0	0
SR13	Action	0	0	-	0
	Limit	0	0	-	0
Total	Action	0	0	0	0
	Limit	0	0	0	0

**iv. Waste Management**

There was marine sediment Type 2 sediment (Confined Marine Disposal) disposed to East of Sha Chau Contaminated Mud Pit and a small amount of general refuse were disposed off site in the reporting month.

**v. Non-Compliance, Complaints, Notifications of Summons and Successful Prosecutions**

No complaint, notification of prosecutions or summons was received in the reporting period.

**vi. Site Inspections and Audit**

The Environmental Team conducted 4 site inspections in the reporting period. No particular observation was recorded in the reporting month, except stagnant water was found at drip tray of the wire at drilling barge 998.

According to Contractor, no archaeological deposit was found during reporting period.

**vii. Compliance with Specific EP conditions**

Implementation of contractor's mitigation for dredging work and the associated dredging records were checked. It was concluded that the dredging is conducted orderly in compliance with the EP requirements on site mitigation measures in general.

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viii. Construction Activities for the Coming Reporting Period

During the coming reporting period, the principal work activities included:

- Preparation Works of Dredging at Portion A / Zone 1A, Zone 2B1, 2B2 and 2C1 in EP
- Dredging at Portion A / Zone 1A, Zone 2B1, 2B2 and 2C1 in EP

Future Key Issues include:

- Regular inspection on silt curtain deployment
- Regular inspection on silt screen deployment
- Implementation of EM&A Programme
- Maintain dredging below allowable dredging rate in EP.
- Cleaning of excess material from the decks and exposed fittings of barges and dredgers before the vessel is moved.
- Barge loading shall be monitored to ensure material is not lost during transportation.
- Conditions in dumping permit shall be followed strictly.



## **1. INTRODUCTION**

### **1.1 Background**

- 1.1.1 The Project objective is to dredge approximately 4.0 million cubic metres of sediment from the seabed of Kwai Tsing Container Basin, as well as portions of Northern Fairway and Western Fairway, to provide sufficient depth of container basin and approach channel to Kwai Tsing Container Terminal (KTCT) for the safe navigation of Ultra Large Container Ships (ULCS).
- 1.1.2 The environmental monitoring and audit works of this Project is governed by Environmental Permit (EP) No. EP-426/2011/A, EM&A Manual (AEIAR-156/2010) and EM&A TIN (EPD Letter Ref: (34) in Ax(1) to EP2/N3/C/57Pt.7)).
- 1.1.3 The project proponent was the Civil Engineering & Development Department, HKSAR (CEDD). The Project General Layout is shown in **Figure 1**.
- 1.1.4 Mott MacDonald Hong Kong Ltd. (MMHK) was commissioned by CEDD as the Engineer for the Project. Ramboll Environ Hong Kong Limited (REHK) was employed as the Independent Environmental Checker (IEC) in the Project.
- 1.1.5 China International Water & Electric Corporation Limited (CIWE) was appointed as the main contractor for the dredging works.
- 1.1.6 MaterialLab Consultants Limited (MCL) was appointed as the Environmental Team (ET) to implement the Environmental Monitoring and Audit (EM&A) programme for the Project.
- 1.1.7 The construction phase of the Project under the EP was commenced on 23 April 2014. The impact EM&A programme of the Project commenced on 23 April 2014.

### **1.2 Purpose of the Report**

- 1.2.1 This Thirty Seventh Monthly EM&A Report is prepared by MCL. This report presents a summary of the environmental monitoring and audit works, list of activities and mitigation measures proposed by the ET for the Project in 23 April 2017 to 22 May 2017.

### **1.3 Structure of the Report**

- 1.3.1 The structure of this report is as follows:

- Section 1: Introduction, including background, purpose and structure of the report
- Section 2: Basic Project Information – summaries background and scope of the Contract, site description, project organization and contract details, construction programme, the construction works undertaken and the status of Environmental Permits/Licenses during the reporting period.
- Section 3: Routine Impact Water Quality Monitoring – summaries the monitoring parameters, monitoring programmes, monitoring methodologies, monitoring frequency,

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monitoring locations, Action and Limit Levels, monitoring results and Event / Action Plans.

- Section 4: 24-hr Water Quality Monitoring – summaries the monitoring parameters, monitoring programmes, monitoring methodologies, monitoring frequency, monitoring locations, Action and Limit Levels, monitoring results and Event / Action Plans.
- Section 5: Environmental Site Inspection – summaries the audit findings of the weekly site inspections undertaken within the reporting period.
- Section 6: Exceedance of the environmental parameters – summaries any monitoring exceedance within the reporting period.
- Section 7: Non-Compliance, Complaints, notifications of summons and Prosecution – summaries any environmental complaints, environmental summons and successful prosecutions within the reporting period.
- Section 8: Conclusions and Recommendation

## 2. BASIC PROJECT INFORMATION

### 2.1 Project Organizations

2.1.1 The Project Organization structure is shown in **Appendix A**. The key personnel contact names and numbers are summarized in **Table 2.1**.

**Table 2.1 Key Personnel Contact of the Contract**

Party	Position	Name	Telephone	Fax
Engineer's Representative (MMHK)	Resident Engineer	Mr. Pan Chan	2419 6008	2419 6218
Independent Environmental Checker (REHK)	Independent Environmental Checker	Mr. YH Hui	3465 2888	3465 2899
Contractor (CIW&E)	Site Agent	Mr. KO Leung	2419 6008	2419 6218
	Environmental Officer	Mr. WH Lam	2419 6008	2419 6218
Environmental Team (MCL)	Environmental Team Leader	Mr. Colin Yung	3565 4114	3565 4160

### 2.2 Construction Programme

2.2.1 The construction phase of the Project under the EP commenced on 23 April 2014.

2.2.2 The construction programme of the Project is shown in **Appendix B**.

2.2.3 The environmental mitigation measures implementation schedule is presented in **Appendix J**.

### 2.3 Works undertaken during the month

During this reporting period, the principal work activities included:

- Preparation Works of Dredging at Portion A / Zone 1A, Zone 2B1, 2B2 and 2C1 in EP
- Dredging at Portion A / Zone 1A, Zone 2B1, 2B2 and 2C1 in EP

Note: Hotspot area was completed excepted hard materials and buffer zone was almost completed except known hotspot and hard materials

Daily dredging quantity in the reporting month is provided in **Table 2.2**.

**Table 2.2 Detailed Dredging Quantity**

Date	Dredged Quantity (in-situ, m <sup>3</sup> )		
	Portion A		
	Zone (Maximum Allowable Daily Dredged Rate)		
23-April-2017	0	0	0
24-April-2017	2B1: 385 (800)	0	0
25-April-2017	0	0	0
26-April-2017	2B2: 385 (1450)	0	0
27-April-2017	0	0	0
28-April-2017	0	0	0
29-April-2017	2B2: 385 (1450)	0	0
30-April-2017	0	0	0
1-May-2017	0	0	0
2-May-2017	0	0	0
3-May-2017	1A: 385 (900)	2B1: 385 (800)	0
4-May-2017	0	0	0
5-May-2017	0	0	0
6-May-2017	2B2: 385 (1450)	0	0
7-May-2017	2B2: 385 (1450)	0	0
8-May-2017	2B2: 385 (1450)	0	0
9-May-2017	0	0	0
10-May-2017	2B2: 192 (1450)	2C1: 192 (1550)	0
11-May-2017	2B2: 385 (1450)	0	0
12-May-2017	0	0	0
13-May-2017	0	0	0
14-May-2017	0	0	0
15-May-2017	0	0	0
16-May-2017	0	0	0
17-May-2017	0	0	0
18-May-2017	0	0	0
19-May-2017	0	0	0
20-May-2017	0	0	0
21-May-2017	0	0	0
22-May-2017	0	0	0

Note: Hotspot area was completed excepted hard materials and buffer zone was almost completed except known highspot and hard materials

**2.4 Status of Environmental Licences, Notification and Permits**

2.4.1 A summary of the relevant permits, licences and/or notifications on environmental protection for this Contract is presented in **Table 2.3**.

**Table 2.3 Status of Environmental Licenses, Notification and Permits**

Permit / Direction / License	Ref No	Valid From	Valid Till
Notification pursuant to Air Pollution (Control Dust) Regulation	Not Required		
Billing Account for Waste Disposal (Land Vehicle/ Dump Truck)	7018156	5/9/2013	Upon Completion
Billing Account for Waste Disposal (Vessels to Tuen Mun 38 Fill Bank)	7026587	20/2/2017	Extended to 13/8/2017
Construction Noise Permit Portion A (Area A3) (PME listed in condition 3a shall only be operated. General Holidays including Sunday 07:00 – 23:00. Any day other than a general holiday including Sunday 19:00 – 23:00)	GW-RW0013-17	19/1/2017	18/7/2017
Marine Dumping Permit Portion A Type 1 Open Sea Disposal (Dedicated Site)	EP/MD/17-195	1/4/2017	30/4/2017
Type 2 Confined Marine Disposal <i>East of Sha Chau Contaminated Mud Pit (CMP Vd) as directed by management team of CEDD</i>	EP/MD/18-002	1/5/2017	31/5/2017
Marine Dumping Permit Portion A Type 1 Open Sea Disposal <i>An area of South Cheung Chau Open Sea Sediment Disposal Area denoted "KTCB" as shown in the chartlet (Drawing no. MFC/002-KTCB-A-R1)</i>	EP/MD/17-151	30/12/2016	29/6/2017
Waste Producer License	5213-320-C3907-01	27/10/2014	Upon Completion

**2.5 Summary of EM&A Programme Requirements**

2.5.1 The EM&A programme requires environmental monitoring for water quality and environmental site inspections for air quality, noise, water quality, waste management, landscape and visual impact. The EM&A requirements for each parameter described in the following sections include:

- All monitoring parameters;
- Monitoring schedules for the reporting month and forthcoming month;
- Action and Limit levels for all environmental parameters;

- Event / Action Plan;
- Environmental mitigation measures, as recommended in the Project EIA reports; and
- Environmental requirement in contract documents.

## 2.6 Construction Activities for the Coming Reporting Period

During the coming reporting period, the principal work activities included:

- Preparation Works of Dredging at Portion A / Zone 1A, Zone 2B1, 2B2 and 2C1 in EP
- Dredging at Portion A / Zone 1A, Zone 2B1, 2B2 and 2C1 in EP

Future Key Issues include:

- Regular inspection on silt curtain deployment
- Regular inspection on silt screen deployment
- Implementation of EM&A Programme
- Maintain dredging below allowable dredging rate in EP.
- Cleaning of excess material from the decks and exposed fittings of barges and dredgers before the vessel is moved.
- Barge loading shall be monitored to ensure material is not lost during transportation.
- Conditions in dumping permit shall be followed strictly.

### 3. ROUTINE IMPACT WATER QUALITY MONITORING

#### 3.1 Monitoring Methodology

3.1.1 In-situ measurements and water samples were taken at 3 depths of the water column for each monitoring location, i.e. 1m below the surface, mid-depth, and 1m above the seabed, except where the water depth was less than 6m in which case the mid-depth was omitted and for locations where the water depth was less than 3m only the mid-depth level was monitored.

##### *In-Situ Measurement*

3.1.2 Prior to each monitoring day, wet bulb calibration was performed for the DO probes. Zero check in distilled water and calibration with a solution of known NTU were carried out for the turbidity probes. Three-point calibration of pH probes was completed each monitoring day.

3.1.3 At each sampling depth, two consecutive measurements were taken for turbidity, pH, DO, temperature, salinity, and ammonia. Separate deployment of the monitoring instruments was conducted for the consecutive measurements. When the difference between the two measurements for DO or turbidity was higher than 25% of the value of the first reading, the reading would be discarded and further readings would be taken. Three replicates of TIN measurement were performed for each depth at each monitoring location.

##### *Laboratory Analysis*

3.1.4 Duplicate water samples were collected at each sampling depth for laboratory measurement of SS, BOD<sub>5</sub> & synthetic detergent, ammonia, and *E.coli* at the required monitoring stations shown in **Table 3.4**. Three replicates were taken for TIN measurements at the specified locations. Samples were stored in high density polythene bottles, packed in ice (cooled to 4°C without being frozen), and delivered to the laboratory on the same day of collection for analysis.

3.1.5 ALS Technichem (HK) Pty Ltd (HOKLAS Reg. No. 066), was appointed to be the laboratory for analysis of water samples in the impact monitoring project. The methods adopted by the laboratories and the reporting limits are detailed in **Table 3.1**.

**Table 3.1** Laboratory Measurement/Analysis Methods and Reporting Limits

Analysis Description	Method	Reporting limits
Suspended Solid	APHA 2540D	1 mg/L
Ammonia	APHA 4500NH3:B&C	0.01 mg/L
Nitrite	APHA 4500NO2:B&H	0.01 mg/L
Nitrate	APHA 4500NO3:I	0.01 mg/L
Total Inorganic Nitrogen	By Calculation	0.02 mg/L
5-day Biochemical Oxygen Demand	APHA 5210B	1 mg/L
Synthetic Detergent	As Methylene Blue Active Substance	0.5 mg/L

Analysis Description	Method	Reporting limits
<i>E. coli</i>	DoE Section 7.8 & 7.9 plus in situ urease test	1 cfu/100mL

**3.2 Monitoring Equipment**

3.2.1 Equipment used for in-situ measurement and water sampling during impact water quality monitoring is summarised in **Table 3.2**. The equipment is in compliance with the requirements set out in the EM&A Manual. All in-situ monitoring instruments were calibrated by a HOKLAS-accredited laboratory or by standard solutions. Calibration of temperature, DO, salinity, pH and turbidity is conducted in three month interval, while QA/QC for in-situ ammonia measurement is carried out at 1-month interval. Calibration certificates for the water quality monitoring equipment are attached in **Appendix D**.

**Table 3.2** Water Quality Monitoring and Sampling Equipment

Parameter	Equipment	Model	Range	Equipment Accuracy
Nitrate	Photometer	<ul style="list-style-type: none"> <li>HACH DR900, and</li> <li>Nitrate Reagent Set (Cadmium Reduction Method)</li> </ul>	NO <sub>3</sub> : 0.01 to 0.50 mg/L	±0.5%
Ammonia, Nitrite	Photometer	<ul style="list-style-type: none"> <li>Lovibond MD600 Maxi Direct, and</li> <li>Ammonia Reagent Set (Indophenol blue / Salicylate);</li> <li>Nitrite Reagent Set (N-(1-Naphthyl)-ethylenediamine)</li> </ul>	NH <sub>3</sub> -N: 0.02 to 1mg/L; 1 to 50mg/L NO <sub>2</sub> : 0.01 to 0.5mg/L	±2%
Temperature, Dissolved Oxygen, salinity, pH, Turbidity	Water Quality Monitoring Device	YSI 6920V2-2-M Sonde	Temp: -5 to 50°C DO: 0-50mg/L DO%: 0-500% Sal: 0 to 70 ppt pH: 0 to 14 pH units Turb: 0-1000NTU	Temp: ±0.15°C DO: ±0.1mg/L or 1% (whichever greater) for 0-20mg/L; ±15% for 20-50mg/L Sal: ±1% or 0.1ppt (whichever greater) pH: ±0.2 units Turb: ±2% or 0.3NTU (whichever greater)
Water Sampling	Water Sampler	Aquatic Research Transparent PC Horizontal Water Sampler 2.2L / 3L / 5L	NA	NA
Positioning	Global Positioning System (GPS)	Garmin eTrex	NA	±3m
		Garmin GPS72	NA	±3m
Water Depth	Echo Sounder	Garmin ECHO 100	0.6 to 91 m	0.1 m



**3.3 Monitoring Parameters**

3.3.1 The monitoring parameters and frequency for both in-situ measurement and laboratory analysis are summarised in **Table 3.3**. Parameters for each monitoring station are specified in **Table 3.4**.

**Table 3.3 Monitoring Parameters and Frequency**

Parameters	Monitoring Frequency
<p><u>In-situ Measurement</u> Turbidity (in NTU), pH, Dissolved Oxygen (in mg/L and %), Temperature (in °C), Salinity (in ppt), <sup>1</sup>Ammonia-N (in mg/L-N and UIA); <sup>2</sup>TIN: Ammonia-N (in mg/L), Nitrite (in mg/L), Nitrate (in mg/L)</p> <p><u>Laboratory Analysis</u> <sup>1</sup>Ammonia-N (in mg/L-N and UIA), Suspended Solids (SS), <sup>3</sup>BOD<sub>5</sub>, <sup>3</sup><i>E.coli</i>, <sup>3</sup>Synthetic Detergent; <sup>2</sup>TIN: Ammonia-N (in mg/L), Nitrite (in mg/L), Nitrate (in mg/L)</p>	<p>3 days per week, at mid-flood and mid-ebb tides (except <sup>3</sup>detergent which shall be taken one day per month, at mid-flood and mid-ebb)</p> <p>36 hours interval was allowed between subsequent sets of measurement.</p>

Notes:

1. Ammonia measurements and samples were taken at SR2, SR3, SR4, SR12, C1A, C2A only;  
UIA: In-situ unionized ammonia was calculated from in-situ measurement of NH<sub>3</sub>-N, temperature, pH and salinity; Laboratory determined unionized ammonia was calculated from analysed NH<sub>3</sub>-N from water samples and in-situ measurement of temperature, pH and salinity;
2. Total Inorganic Nitrogen (TIN) measurements and samples were taken at SR5, G2, C1A and C2A only;
3. BOD<sub>5</sub>, *E.coli* and Synthetic Detergent samples were taken at SR4, SR12, C1A, C2A only.

**Table 3.4 Water Quality Monitoring Parameters**

ID	In-situ Measurement							Laboratory Analysis					
	pH	Temperature	Salinity	Turbidity	Dissolved Oxygen / Dissolved Oxygen%	NH <sub>3</sub> -N / UIA	TIN (NH <sub>3</sub> -N, NO <sub>2</sub> & NO <sub>3</sub> )	Suspended Solids	BOD <sub>5</sub>	E. coli	NH <sub>3</sub> -N / UIA	Synthetic Detergent	TIN (NH <sub>3</sub> -N, NO <sub>2</sub> & NO <sub>3</sub> )
SR2	○	○	○	○	○	○		○			○		
SR3	○	○	○	○	○	○		○			○		
SR4	○	○	○	○	○	○		○	○	○	○	○	
SR5	○	○	○	○	○		○	○					○
SR12	○	○	○	○	○	○		○	○	○	○	○	
SR13	○	○	○	○	○			○					
G2	○	○	○	○	○		○	○					○
C1A	○	○	○	○	○	○	○	○	○	○	○	○	○
C2A	○	○	○	○	○	○	○	○	○	○	○	○	○

Note:

1. UIA: In-situ unionized ammonia was calculated from in-situ measurement of NH<sub>3</sub>-N, temperature, pH and salinity; laboratory determined unionized ammonia was calculated from analysed NH<sub>3</sub>-N from water samples taken and in-situ measurement of temperature, pH and salinity.

### 3.4 Monitoring Locations

- 3.4.1 Referring to the Proposal for Temporary Suspension of Impact Water Quality Monitoring (0394\_13\_ED\_0326F) which was submitted to EPD in August 2016 with no objection was received from EPD; removal of routine water quality monitoring stations at SR1 was effective on 24 December 2016.
- 3.4.2 Referring to the *Proposal on Removal of Some Water Quality Monitoring Stations After Resumption of Marine Construction Works (Dredging Works and Marine Works of the Northern Part of Kwai Tsing Container Basin Only)* (0394\_13\_ED\_0332I) which has been submitted to EPD and relevant parties in December 2016 with no objection, removal of routine water quality monitoring stations at SR6, SR7, SR8, SR9, SR10 and SR11 was effective from 23 January 2017. Due to removal of some sensitive receivers in routine water quality monitoring, gradient stations G3, G5 and G6 were also be removed and gradient stations G1 and G4 replaced the previous control stations C1, C2 and C3 as C1A and C2A with reference to the approved proposal (0394\_13\_ED\_0332I) which was effective from 23 January 2017.
- 3.4.3 Impact water quality monitoring was conducted at 9 locations, including 6 sensitive receivers (SR2, SR3, SR4, SR5, SR12, SR13), 1 gradient station (G2) and 2 control stations (C1A, C2A), whose detailed information is summarised in **Table 3.5**. The locations of the stations are also shown in **Figure 2**.

**Table 3.5** Locations of Water Quality Monitoring Stations

Water Monitoring Station		Easting	Northing
SR2	Casam, Gazetted Beach	825723.225	825334.784
SR3	Approach, Gazetted Beach	826960.152	825260.726
SR4	Tsuen Wan, WSD Flushing Water Intake	829270.482	825382.994
SR5	Ma Wan, Fish Culture Zone	823758.839	823575.934
SR12	Tsing Yi, WSD Flushing Water Intake	829599.152	823262.269
SR13	EMSD Cooling Water Intake for Kwai Chung Hospital	831397.450	822002.433
G2	Gradient Station	825979.792	824683.158
C1A	Control Station	820626.195	822834.323
C2A	Control Station	830423.070	819431.722

### 3.5 Monitoring date, time frequency and duration

In the reporting period, impact water quality monitoring was carried out 3 days per week, at mid-flood and mid-ebb tides, from 23 April 2016 to 22 May 2017. Detailed impact monitoring schedule for the reporting month and the coming month is included in **Appendix E**

### 3.6 Weather conditions

3.6.1 The weather condition during the impact monitoring is provided in **Appendix L**.

### 3.7 Results and Observations

3.7.1 Impact water quality monitoring was conducted at all designated monitoring stations in the reporting month. Impact water quality monitoring results and graphical presentations are provided in **Appendix F**.

3.7.2 During the monitoring period, some adverse weather conditions, including Rainstorm Warning signal and Thunderstorm Warning signals were reported. Heavy marine traffic (not associated with the Project) was commonly observed nearby the Project site and its vicinity, that the propeller wash from vessels could lead to potential disturbance of seabed sediment and affect the water quality. The above conditions may affect monitoring results. Summary of weather condition are provided in **Appendix L**.

3.7.3 Number of exceedances recorded in the reporting month at each impact station is summarized in **Table 3.6** and **3.7**.

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**Table 3.6 Summary of Water Quality Exceedance (In-situ Measurement)**

Station	Exceedance Level	DO (S&M)		DO (B)		Turbidity		NH3-N		UIA		TIN		Total	
		E	F	E	F	E	F	E	F	E	F	E	F	E	F
SR2	Action	0	0	0	0	0	0	0	0	0	0	-	-	0	0
	Limit	0	0	0	0	0	0	0	0	0	0	-	-	0	0
SR3	Action	0	0	0	0	0	0	0	1	0	0	-	-	0	1
	Limit	0	0	0	0	0	0	0	0	0	0	-	-	0	0
SR4	Action	0	0	0	0	0	0	0	0	0	0	-	-	0	0
	Limit	0	0	0	0	0	0	0	0	0	0	-	-	0	0
SR5	Action	0	0	0	0	0	0	-	-	-	-	0	0	0	0
	Limit	0	0	0	0	0	0	-	-	-	-	12	12	12	12
SR12	Action	0	0	0	0	0	0	0	0	0	0	-	-	0	0
	Limit	0	0	0	0	0	0	0	0	0	0	-	-	0	0
SR13	Action	0	0	0	0	0	0	-	-	-	-	-	-	0	0
	Limit	0	0	0	0	0	0	-	-	-	-	-	-	0	0
Total	Action	0	0	0	0	0	0	0	1	0	0	0	0	1	
	Limit	0	0	0	0	0	0	0	0	0	0	12	12	24	

**Table 3.7 Summary of Water Quality Exceedance (Laboratory Analysis)**

Station	Exceedance Level	Suspended Solids		BOD <sub>5</sub>		<i>E. coli</i>		NH <sub>3</sub> -N		UIA		Synthetic Detergent		TIN		Total	
		E	F	E	F	E	F	E	F	E	F	E	F	E	F	E	F
SR2	Action	1	0	-	-	-	-	0	0	0	0	-	-	-	-	1	0
	Limit	0	0	-	-	-	-	0	0	0	0	-	-	-	-	0	0
SR3	Action	1	0	-	-	-	-	0	1	0	0	-	-	-	-	1	1
	Limit	0	0	-	-	-	-	0	0	0	0	-	-	-	-	0	0
SR4	Action	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0
	Limit	2	0	0	0	0	1	0	0	0	0	0	0	-	-	2	1
SR5	Action	2	0	-	-	-	-	-	-	-	-	-	-	0	0	2	0
	Limit	0	0	-	-	-	-	-	-	-	-	-	-	12	12	12	12
SR12	Action	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0
	Limit	2	0	0	0	0	0	0	0	0	0	0	0	-	-	2	0
SR13	Action	0	0	-	-	-	-	-	-	0	0	-	-	-	-	0	0
	Limit	0	0	-	-	-	-	-	-	0	0	-	-	-	-	0	0
Total	Action	4	0	0	0	0	0	0	1	0	0	0	0	0	0	5	
	Limit	4	0	0	0	0	1	0	0	0	0	0	0	12	12	29	

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3.7.4 During the reporting period, 1 AL exceedance for NH<sub>3</sub>-N (in-situ), 24 LL exceedances for TIN (in-situ), 4 AL and 4 LL exceedances for TSS, 1 LL exceedance for *E.coli.*, 1 AL exceedance for NH<sub>3</sub>-N (lab), and 24 LL exceedances for TIN (lab) were recorded.

3.7.5 A number of exceedances were recorded in the reporting month, however, based on the finding from the investigation on the recorded cases of exceedances, the cause was found not related to the project. The exceedances may be caused by influences in the vicinity of the station or changes of the ambient conditions.

3.7.6 The details of Notification of Exceedance can be referred to **Appendix I**.

### **3.8 Action and Limit Levels**

3.8.1 Referring to the ER Letter ref. (CV/2013/04)/M45/400/1247 dated 19 March 2015, a Revised Baseline Water Quality Monitoring Test Methodology – Review of Action and Limit Levels has been submitted to EPD by ER in March 2015. The Action and Limit Level for the wet season (April – October) was effected and applied to the water quality monitoring data from 1 April 2015. The Action and Limit Level is given in **Appendix C**.

### **3.9 Event and Action Plan**

3.9.1 The Event and Action Plan is given in **Appendix H**.

## 4. 24-HR WATER QUALITY MONITORING

### 4.1 Monitoring Methodology

4.1.1 The monitoring probes are set up around the fish rack at the Fish Culture Zone and seawater intake point. Small buoys are placed on the sea surface to indicate the locations of the monitoring probes. Data loggers and wireless modems are placed on a framework or covered places, such as storage house on the fish rack.

4.1.2 The 24 hours water quality monitoring is performed at a depth of 1 to 2m below the water surface. The dissolved oxygen, temperature and turbidity data are logged at 5 minutes interval by the multi-probe, while ammonia data are logged at 20 minutes interval and data are transmitted via the wireless transmission system to the designated computers with the installation of automatic checking programme to detect exceedances at the offices of ET. In case where an action/limit level exceedance is evidenced (a continuous exceedance for any 30 minutes i.e. 6 consecutive monitoring data exceedances for DO, temperature and turbidity; and 3 consecutive exceedances of ammonia data), an email notification will be sent automatically to ET, Contractor, ER, EPD, AFCD and WSD to alert the event for further investigation.

### 4.2 Monitoring Equipment

4.2.1 The following equipment and facilities will be used for the monitoring of water quality impacts:

#### Dissolved Oxygen, Turbidity and Temperature Measuring Equipment

A multi probe meter measuring dissolved oxygen, temperature and turbidity is set up at the 24 hours monitoring stations

- A DO level in the range of 0-20 mg/L and 0-200% saturation;
- A temperature of between 0 and 45 degree Celsius;
- A turbidity of between 0-1000NTU

The DO equipment is equipped with built-in salinity compensation.

#### Ammonia Measuring Equipment

The ammonia measuring equipment is used to monitor seawater ammonia level at WSD flushing water intake on a 24 hours a days 7 days a week during works basis.

#### Data Acquisition System

The data acquisition system is used to log water quality data at 5 minutes interval by the multi-probe and at 20 min interval by the ammonia sensor. Data will be transmitted via the wireless transmission system to the designated computers at ET office.

**Table 4.1** lists out the detail of monitoring equipment.

**Table 4.1 24 Hours Water Quality Monitoring Equipment**

Parameter	Equipment	Model	Range	Equipment Accuracy
Temperature, Dissolved Oxygen, Turbidity	Water Quality Monitoring Device	•YSI 6920V2-2-M Sonde	Temp: -5 to 50°C DO: 0-50mg/L DO%: 0-500% Turb: 0-1000NTU	<ul style="list-style-type: none"> <li>▪Temp: ±0.15°C</li> <li>▪DO: ±0.1mg/L or 1% (whichever greater) for 0-20mg/L; ±15% for 20-50mg/L</li> <li>▪Turb: ±2% or 0.3NTU (whichever greater)</li> </ul>
Data Acquisition System	Data Logger	Campbell CR200	NA	NA
	Data Logger	Campbell CR800	NA	NA
	Data Transmitter	NXN GT-511	NA	NA
Ammonia	Photometric Analyzer	Systema S.p.A. Micromac 1000 Ammonia Reagent Set: OPA	N-NH <sub>3</sub> : 0-2mg/L	N-NH <sub>3</sub> : <0.01mg/L

**4.2.2 Equipment Calibration**

In-situ monitoring instruments are checked, calibrated and certified by a laboratory accredited under HOKLAS or any other international accreditation scheme before use, and subsequently re-calibrated at 3 months intervals throughout the water quality monitoring programme.

The monitoring equipment, monitoring probes are cleaned and checked twice a week.

Equipment calibration records are in **Appendix D**.

**4.3 Monitoring Parameters**

4.3.1 Dissolved oxygen, temperature and turbidity are recorded every 5 minutes, 24 hours a day 7 days a week during dredging works.

4.3.2 In-situ NH<sub>3</sub>-N at WSD Flushing Water Intake are measured every 20 minutes, 24 hours a day 7 days a week during works.

4.3.3 The water quality parameters measured at particular locations are shown in **Table 4.2**.

**Table 4.2 24-hr Water Quality Monitoring Parameters**

ID	Description	Parameters				
		Temperature	Turbidity	DO (mg/L)	DO%	NH <sub>3</sub> -N
SR4	Tsuen Wan, WSD Flushing Water Intake	○	○	○	○	○
SR5	Ma Wan, Fish Culture Zone	○	○	○	○	
SR12	Tsing Yi, WSD Flushing Water Intake	○	○	○	○	○
SR13	EMSD Cooling Water Intake for Kwai Chung Hospital	○	○	○	○	

**4.4 Monitoring Locations**

Referring to the *Proposal on Removal of Some Water Quality Monitoring Stations After Resumption of Marine Construction Works (Dredging Works and Marine Works of the Northern Part of Kwai Tsing Container Basin Only)* (0394\_13\_ED\_0332I) which has been submitted to EPD and relevant parties in December 2016 with no objection, removal of 24 hour monitoring stations at SR9, SR10 and SR11 was effective from 23 January 2017. The setups of 24 hour monitoring stations at SR9, SR10 and SR11 were removed on 7 February 2017. The 24 hours water quality monitoring works are performed at the following locations (**Table 4.3**).

**Table 4.3 Location of Water Quality Monitoring Station**

Water Monitoring Station		Easting	Northing
SR4	Tsuen Wan, WSD Flushing Water Intake	829270.482	825382.994
SR5	Ma Wan, Fish Culture Zone	823758.839	823575.934
SR12	Tsing Yi, WSD Flushing Water Intake	829599.152	823262.269
SR13	EMSD Cooling Water Intake for Kwai Chung Hospital	831397.450	822002.433

Revisions on monitoring locations were proposed in previous submission (MaterialLab Report No. Ref: 0394/13/ED/0103 – WATER QUALITY MONITORING LOCATION) and were agreed among AFCD, EMSD, WSD and EPD.

**4.5 Results and Observations**

4.5.1 24-hr water quality monitoring was conducted at all designated monitoring stations in the reporting month. Results are provided in **Appendix G**.

4.5.2 During the reporting period, some adverse weather conditions, including Rainstorm Warning signal and Thunderstorm Warning signals were reported. Heavy marine traffic (not associated with the Project) was commonly observed nearby the Project site and its vicinity, that the propeller wash from vessels could lead to potential disturbance of seabed sediment and affect



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the water quality. The above conditions may affect monitoring results. Furthermore, the fish culturing or other activities occurring on the fish rack may cause adverse impact on the receiving water. Summary of weather conditions are provided in **Appendix L**.

4.5.3 Number of exceedances recorded in the reporting month at each impact station is summarized in **Table 4.4**.

**Table 4.4 Summary of Water Quality Exceedance (24-hr Monitoring)**

Station	Exceedance Level	Turbidity	DO	NH <sub>3</sub> -N	Total
SR4	Action	0	0	0	0
	Limit	0	0	0	0
SR5	Action	0	0	-	0
	Limit	0	0	-	0
SR12	Action	0	0	0	0
	Limit	0	0	0	0
SR13	Action	0	0	-	0
	Limit	0	0	-	0
Total	Action	0	0	0	0
	Limit	0	0	0	0

4.6 No exceedance was recorded in the reporting month.

#### 4.7 Action and Limit Levels

4.7.1 Referring to the ER Letter ref. (CV/2013/04)/M45/400/1247 dated 19 March 2015, a Revised Baseline Water Quality Monitoring Test Methodology – Review of Action and Limit Levels has been submitted to EPD by ER in March 2015. The Action and Limit Level for the wet season (April – October) was effected and applied to the water quality monitoring data from 1 April 2015. The Action and Limit Level is given in **Appendix C**.

#### 4.8 Event and Action Plan

4.8.1 The Event and Action Plan is given in **Appendix H**.

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**5. ENVIRONMENTAL SITE INSPECTION AND AUDIT****5.1 Site Inspections**

5.1.1 Site inspections were carried out weekly by ET to monitor the implementation of proper environmental pollution control and mitigation measures for the Project. In the reporting month, 5 site inspections were carried out on 27 April 2017, 4, 11, 18 May 2017.

5.1.2 The Environmental Team conducted 4 site inspections in the reporting period. No particular observation was recorded in the reporting month, except stagnant water was found at drip tray of the wire at drilling barge 998.

5.1.3 According to Contractor, no archaeological deposit was found during reporting period.

**5.2 Advice on the Solid and Liquid Waste Management Status**

5.2.1 According to the Contractor, 10m<sup>3</sup> general refuse were generated and disposed off site in the reporting period. Monthly summary of waste flow table is detailed in **Appendix K**.

**5.3 Dredging and Disposal**

5.3.1 Implementation of mitigation measures for dredging works and the associated dredging records were checked and the findings are summarized in **Table 5.1**.

**Table 5.1 Compliance with EP Conditions in the Reporting Month**

EP Condition	Compliance Status and/or Recommendations
3.1 (a), (d) Measures to Mitigate Water Quality Impact	Complied with EP requirement to maintain daily dredging rate below 4000m <sup>3</sup> for each dredger. No more than two grab dredgers operating within the Project Area. No more than one grab dredger operating within each of the five main zones. Maximum dredging rate maintained within 900 m <sup>3</sup> per day during wet season for Zone 1A, 800 m <sup>3</sup> per day during wet season for Zone 2B1, 1450 m <sup>3</sup> per day during wet season for Zone 2B2 and 1550 m <sup>3</sup> per day during wet season for Zone 2C1.
3.1 (e) Silt Curtain Deployment	Silt curtain deployment complied with Silt Curtain Deployment Plan.
3.1 (f) Silt Screen Deployment Plan	Silt screens deployment at WSD1, WSD8 and EMSD1 complied with Silt Screen Deployment Plan.
3.1 (g) 24-hr environmental monitoring and audit	24-hr enhanced environmental monitoring and audit of water quality parameters implemented.
EP Condition 2.5 Submission	1 closed grab dredger operated in Zone 1A, Zone 2B1, 2B2 and Zone 2C1.

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- 5.3.2 The daily dredging rates, silt curtain deployment and silt screen deployment within the Project area were checked and confirmed to be complied with EP conditions in general.
- 5.3.3 There was marine sediment Type 2 sediment (Confined Marine Disposal) disposed to East of Sha Chau Contaminated Mud Pit and a small amount of general refuse were disposed off site in the reporting month. The details can be referred to the **Table 5.2**.

**Table 5.2 Waste Quantities of Dredging Works**

Month	Marine Sediment Type	Quantity Generated from 23 April 2017 to 22 May 2017 (m <sup>3</sup> )	Cumulative-to 22 May 2017 (m <sup>3</sup> )	Disposal / Dumping Ground
May 2017	Type 1 – Open Sea Disposal	0	1683850	NA
	Type 2 – Confined Marine Disposal	5000	633280	NA
	Type 3 – Special Treatment / Disposal	0	1260	NA

Note: All the Type 3 (Cat. Hf) sediment dredging and disposal was completed on 18 May 2016

#### 5.4 Implementation Status of Environmental Mitigation Measures

A summary of the Implementation Schedule of Environmental Mitigation Measures (EMIS) is presented in **Appendix J**. Most of the necessary mitigation measures were implemented properly.

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## **6. EXCEEDANCE OF THE ENVIRONMENTAL PARAMETERS**

- 6.1.1 Six (6) Action Level and Fifty three (53) Limit Level exceedances were recorded in the routine impact monitoring in the reporting month.
- 6.1.2 No exceedance was recorded in the 24-hr monitoring in the reporting month.
- 6.1.3 Notification of exceedance is provided in **Appendix I**.

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**7. NON-COMPLIANCE, COMPLAINTS, NOTIFICATION OF SUMMONS AND PROSECUTION**

7.1.1 No complaint, inspection notice, notification of summons or prosecution was received in this reporting period. Cumulative complaint log, summaries of complaints, notification of summons and successful prosecutions are presented in Tables 7.1, 7.2 and 7.3.

**Table 7.1 Environmental Complaints Log**

Complaint Log No.	Date of Receipt	Received From and Received By	Nature of Complaint	Date Investigated	Outcome	Date of Reply
Nil	-	-	-	-	-	-

**Table 7.2 Cumulative Statistics on Complaints**

Environmental Parameters	Cumulative No. Brought Forward	No. of Complaints This Month	Cumulative Project-to-Date
Air	0	0	0
Noise	0	0	0
Water	0	0	0
Waste	0	0	0
Total	0	0	0

**Table 7.3 Cumulative Statistics on Successful Prosecutions**

Environmental Parameters	Cumulative No. Brought Forward	No. of Prosecutions This Month	Cumulative Project-to-Date
Air	0	0	0
Noise	0	0	0
Water	0	0	0
Waste	0	0	0
Total	0	0	0

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**8. CONCLUSIONS**

- 8.1.1 The dredging works was commenced on 23 April 2014. The EM&A programme was carried out in accordance with the EM&A Manual requirements. As per the EM&A Manual, water quality impact monitoring was conducted during the dredging works.
- 8.1.2 Six (6) Action Level and Fifty three (53) Limit Level exceedances were recorded in the routine impact monitoring in the reporting month.
- 8.1.3 No exceedance was recorded in the 24-hr monitoring in the reporting month.
- 8.1.4 Based on the finding from the investigation on the recorded cases of exceedances, the cause was found not related to the project.
- 8.1.5 Environmental site inspections were carried out for 4 times in the reporting month.
- 8.1.6 No environmental complaint was received and followed up by Environmental Team in the reporting period.
- 8.1.7 No notification of summons and prosecution was received in the reporting month.

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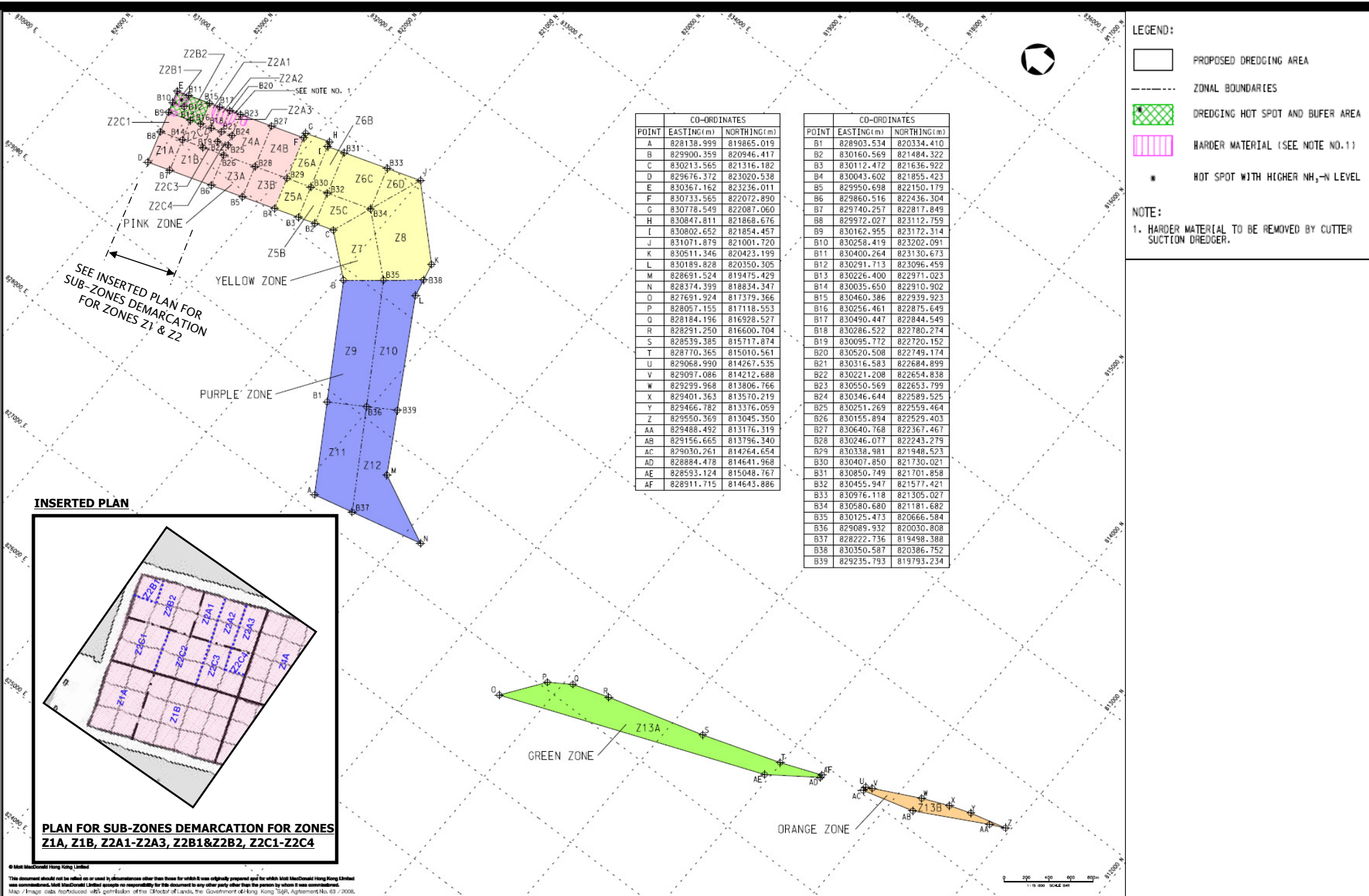
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Report No.: 0394/13/ED/0358

Figure 1

Project General Layout



Project Title: Providing Sufficient Water Depth for Kwai Tsing Container Basin and its Approach Channel

Figure 2: Zones and Sub-zone of Dredging Plan Layout (Extracted from Figure 2 of Justification for the Proposed Demarcation of the Dredging Zones)

Environmental Permit No.:

EP-426/2011/A



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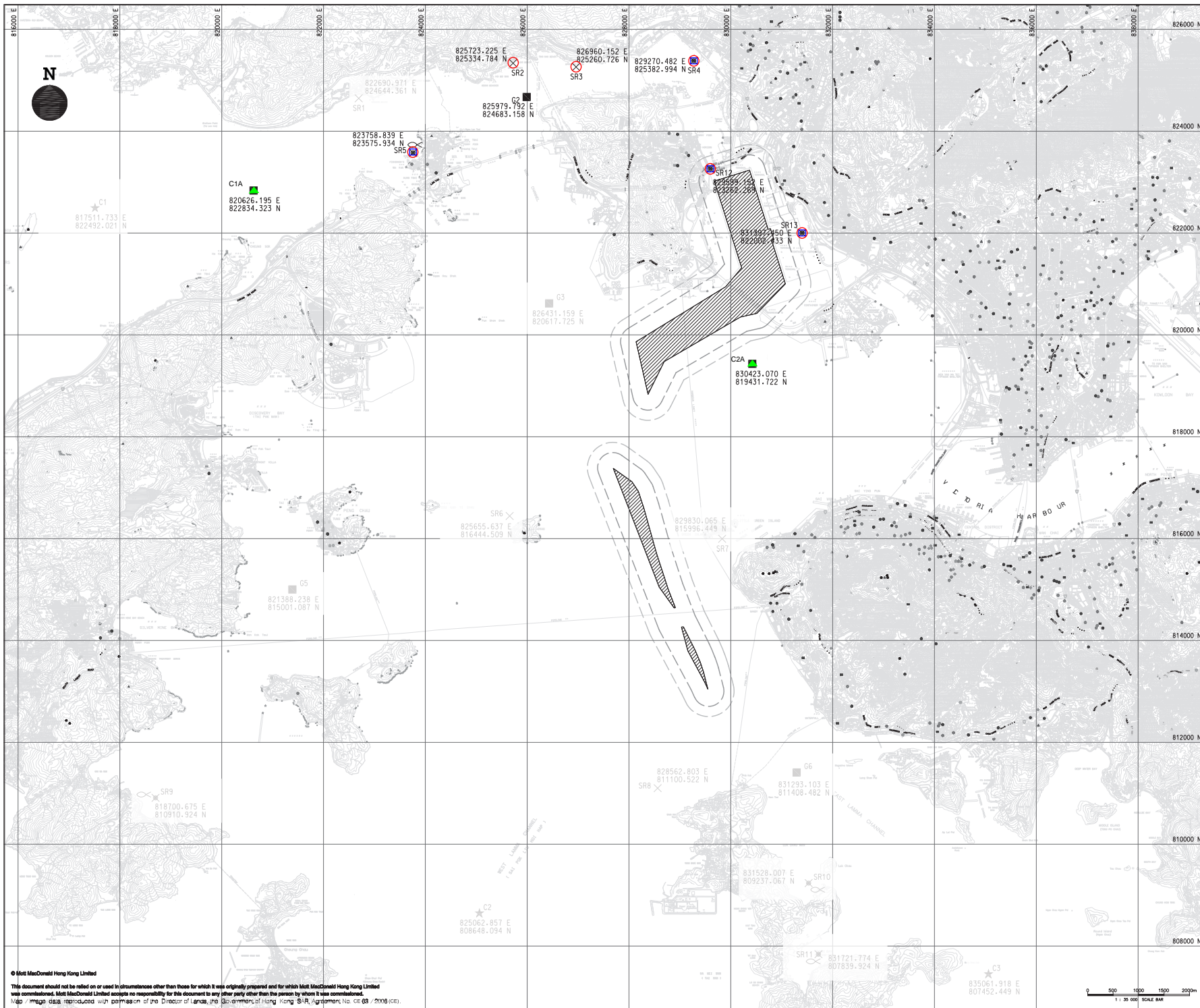
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Report No.: 0394/13/ED/0358


Figure 2

Locations of Water Quality Monitoring Stations



NOTES:  
 1. ALL COORDINATES ARE IN HONG KONG METRIC GRID (1980).  
 2. THE CONTRACTOR SHALL REFER TO RELEVANT SECTION(S) AND APPENDICES OF THE PARTICULAR SPECIFICATION REGARDING THE WATER QUALITY MONITORING.

- LEGEND:
-  SITE BOUNDARY
  -  MONITORING STATION
  -  24 HOUR STATION
  -  CONTROL STATION
  -  GRADIENT STATION

Client  
 THE GOVERNMENT OF THE HONG KONG SPECIAL ADMINISTRATIVE REGION  
 CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

Project  
 CONTRACT NO. : CV/2013/04  
 DREDGING WORKS IN KWAI TSING CONTAINER BASIN AND ITS APPROACH CHANNEL

Title  
 PROVISIONAL LOCATION OF WATER QUALITY MONITORING STATIONS

Scale at A1	Status	Rev
1:35000	TEN	2

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Figure 2 - Location of Monitoring Stations

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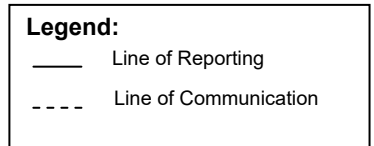
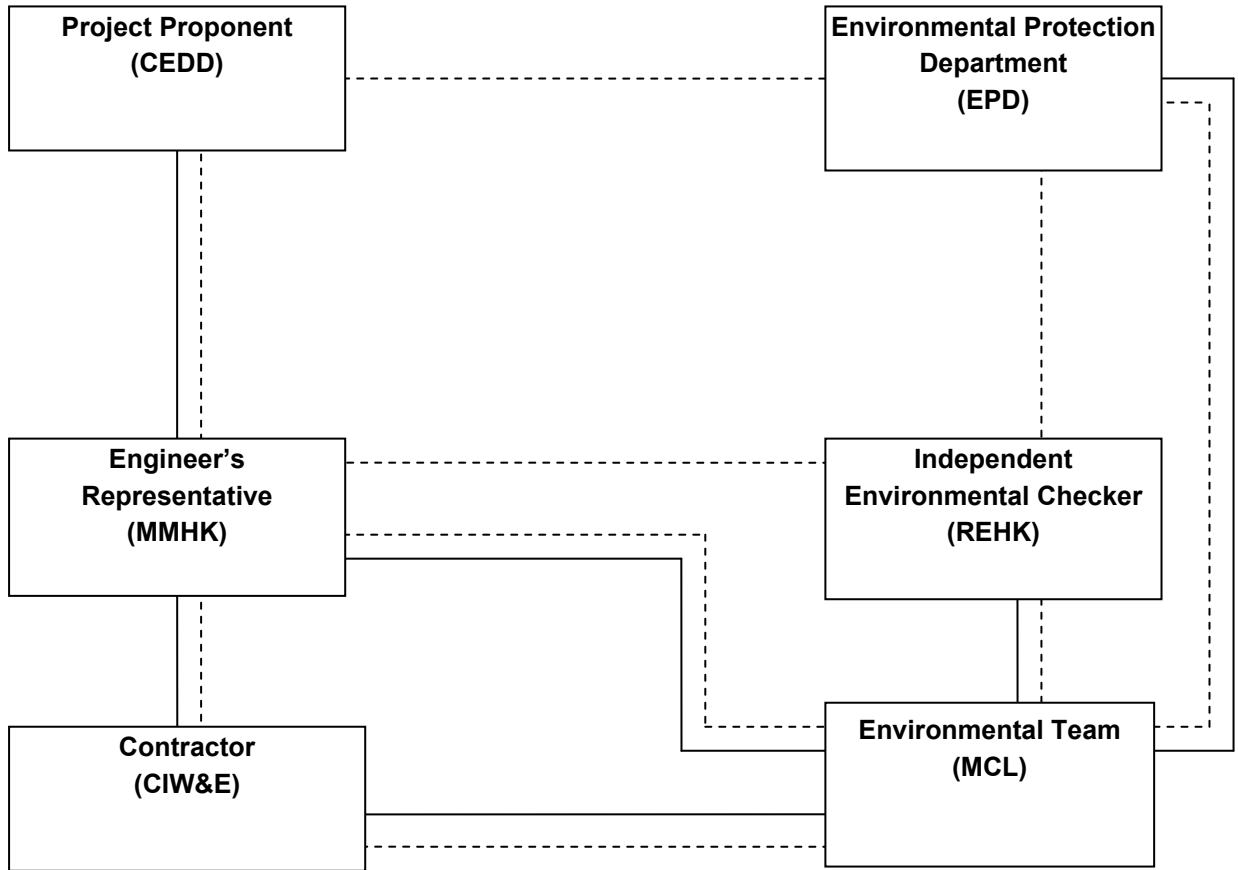
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Report No.: 0394/13/ED/0358

Appendix A  
Project Organization Chart



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**MATERIALAB CONSULTANTS LIMITED**

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Report No.: 0394/13/ED/0358

Appendix B  
Construction Programme

ID	Task Name	Duration	Start	Finish	Predecessors	Successors	Resource Names
1	<b>Contract Period</b>	1587 days	Fri 30/8/13	Tue 2/1/18			
2	<b>Contract Commencement Date</b>	0 days	Fri 30/8/13	Fri 30/8/13		4SS	
3	<b>Extended Contract Completion Date</b>	0 days	Sat 10/6/17	Sat 10/6/17		338FF	
4	<b>Possession of Site</b>				SS,31SS,41SE	N	
5	<b>Section 1</b>	1587 days	Fri 30/8/13	Tue 2/1/18			
6	<b>Submission</b>	1210 days	Fri 30/8/13	Wed 21/12/16			
7	<b>Routine Monitoring / Temporary Marine Traffic Management</b>	484 days	Fri 30/8/13	Fri 26/12/14			
8	<b>Environmental Management</b>	484 days	Fri 30/8/13	Fri 26/12/14			
9	<b>Baseline monitoring</b>	231 days	Fri 30/8/13	Thu 17/4/14			
10	ETL and relevant site personal	30 days	Fri 30/8/13	Sat 28/9/13		4SS,13	N
11	Lab Test	30 days	Fri 30/8/13	Sat 28/9/13		4SS,13	N
12	<b>Monitoring (Location see Drg No. EM/401)</b>	201 days	Sun 29/9/13	Thu 17/4/14			
13	Plan	93 days	Sun 29/9/13	Mon 30/12/13	10,11	154	N
14	<b>Sediment Report</b>	88 days	Mon 20/1/14	Thu 17/4/14			
15	Preliminary report	19 days	Mon 20/1/14	Fri 7/2/14	158	159	N
16	Final report	27 days	Sat 22/3/14	Thu 17/4/14	159, 205,207,224		N
17	<b>Grab sample (Portions A, B &amp; C)</b>	321 days	Fri 30/8/13	Wed 16/7/14			
18	Grab sample specialist	30 days	Fri 30/8/13	Sat 28/9/13		4SS,19	N
19	Sediment testing and sampling plan	162 days	Sun 29/9/13	Sun 9/3/14	18	162	N
20	<b>Sediment report</b>	105 days	Thu 3/4/14	Wed 16/7/14			
21	Preliminary report	26 days	Thu 3/4/14	Mon 28/4/14	166	167	N
22	Final report	37 days	Tue 10/6/14	Wed 16/7/14	167	209	N
23	<b>Vibro-coring (Portions A, B &amp; C)</b>	159 days	Mon 21/7/14	Fri 26/12/14			
24	Sediment testing and sampling plan	28 days	Mon 21/7/14	Sun 17/8/14		170	N
25	<b>Sediment report</b>	105 days	Sat 13/9/14	Fri 26/12/14			
26	Preliminary report	26 days	Sat 13/9/14	Wed 8/10/14	174	175	N
27	Final report	37 days	Thu 20/11/14	Fri 26/12/14	175, 209FS-139 days		N
28	<b>24 Hours monitoring station and TIN Measuring Device (Location see Drg No. EM/401)</b>	79 days	Mon 25/11/13	Tue 11/2/14			
29	Instrumentation	79 days	Mon 25/11/13	Tue 11/2/14		177	N
30	<b>Survey</b>	179 days	Fri 30/8/13	Mon 24/2/14			
31	Surveyor	35 days	Fri 30/8/13	Thu 3/10/13		4SS,35,38	N
32	Geophysicist	35 days	Sun 3/11/13	Sat 7/12/13		224	N
33	<b>Land Survey (Container Basin &amp; DSD Tsing Yi Plant)</b>	67 days	Tue 26/11/13	Fri 31/1/14			
34	<b>Settlement markers</b>	67 days	Tue 26/11/13	Fri 31/1/14			
35	Method Statement for Installation and Monitoring	24 days	Tue 26/11/13	Thu 19/12/13	31	185	N
36	Initial report	12 days	Mon 20/1/14	Fri 31/1/14	186	187	N
37	<b>Hydrographic Survey (Portions A to E)</b>	144 days	Fri 4/10/13	Mon 24/2/14			
38	Method Statement	36 days	Fri 4/10/13	Fri 8/11/13	31	190	N
39	Initial survey Report	29 days	Mon 27/1/14	Mon 24/2/14	190	191	N
40	<b>Temporary Marine Traffic Management (Portions A to E)</b>	144 days	Fri 30/8/13	Mon 20/1/14			
41	Consultant, Risk Manager and Marine Traffic Engineer	28 days	Fri 30/8/13	Thu 26/9/13		4SS,43	N
42	Independent Checking Engineer (ICE)	25 days	Fri 27/12/13	Mon 20/1/14		196FS-60 days	N
43	Webbase software and Trial Run	50 days	Fri 27/9/13	Fri 15/11/13	41	196	N
44	<b>Dredging Works (Portions A to E)</b>	896 days	Thu 14/1/13	Wed 27/4/16			
45	Independent Checking Engineer (ICE)	21 days	Thu 14/1/13	Wed 4/12/13		51	N
46	<b>Silt screen deployment plan and report (Location see Drg No. EM/401)</b>	77 days	Fri 6/12/13	Thu 20/2/14			
47	Method statement	77 days	Fri 6/12/13	Thu 20/2/14		207,201	N
48	<b>Dredging method statement and silt curtain deployment plan</b>	118 days	Thu 28/1/13	Tue 25/3/14			
49	Method statement for dredging works	104 days	Thu 28/1/13	Tue 11/3/14		224	N
50	<b>Silt curtain deployment plan</b>	118 days	Thu 28/1/13	Tue 25/3/14			
51	Design	70 days	Tue 17/12/13	Mon 24/2/14	45	52FS-89 days	N
52	Deployment plan	118 days	Thu 28/1/13	Tue 25/3/14	51FS-89 days	224	N
53	<b>Dredging Works at Portions A and B</b>	891 days	Tue 19/1/13	Wed 27/4/16			
54	<b>General seabed</b>	891 days	Tue 19/1/13	Wed 27/4/16			
55	Marine Notice approval by Marine Department	247 days	Tue 19/1/13	Wed 23/7/14		207	N
56	<b>Noise Permit</b>	739 days	Mon 23/12/13	Thu 31/12/15			
57	General	101 days	Mon 23/12/13	Wed 2/4/14		205,207	N



China International Water & Electric Corp.	Task	Critical Task	Milestone	Summary
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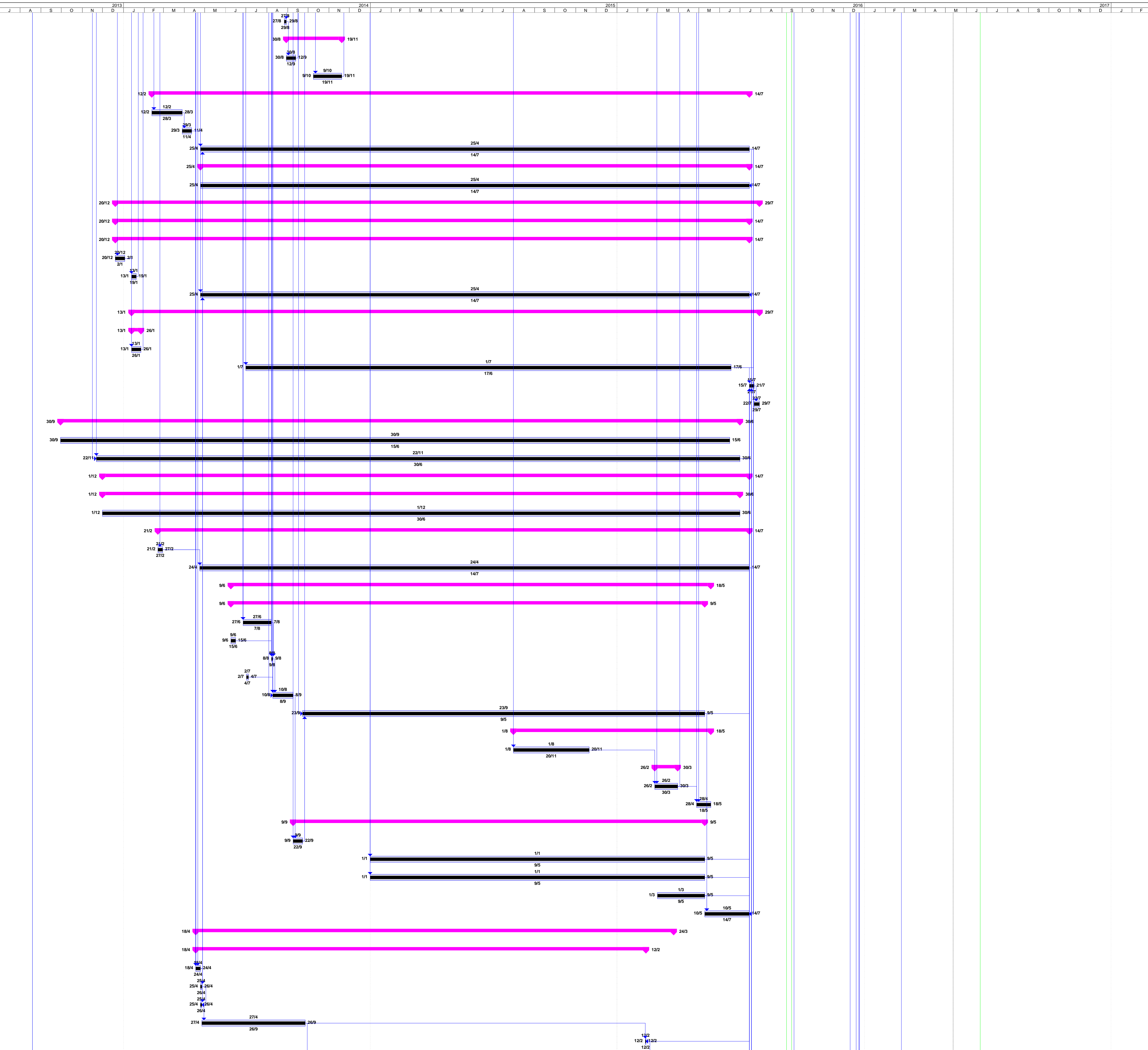
\* Subject to availability of working windows  
 \*\* The removal of broken rock material will be carried out biweekly  
 \*\*\* The frequency of interim survey is once a month





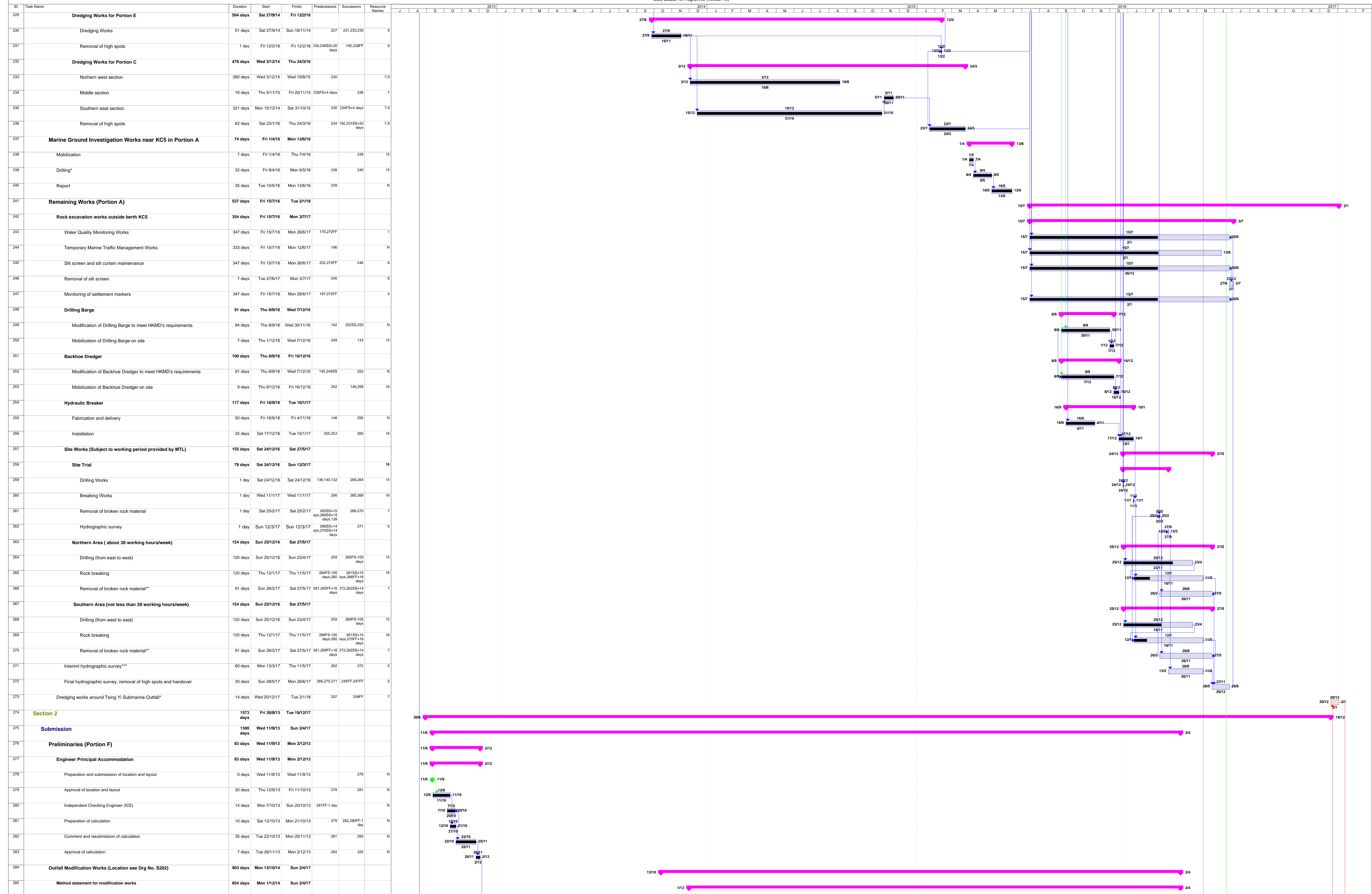


ID	Task Name	Duration	Start	Finish	Predecessors	Successors	Resource Names
172	Field works	3 days	Wed 27/8/14	Fri 29/8/14	170	174	3
173	Lab test	82 days	Sat 30/8/14	Wed 19/11/14			
174	Chemical test	14 days	Sat 30/8/14	Fri 12/9/14	172	26	N
175	Biological test	42 days	Thu 9/10/14	Wed 19/11/14	26	27	N
176	24 Hours monitoring station and TIN Measuring Device (Location see Drg No. EM/401)	884 days	Wed 12/2/14	Thu 14/7/16			
177	Procurement and delivery	45 days	Wed 12/2/14	Fri 28/3/14	29	178	N
178	Installation	14 days	Sat 29/3/14	Fri 11/4/14	177	179	1
179	Monitoring	812 days	Fri 25/4/14	Thu 14/7/16	178,224, FF,221FF,243		1
180	Impact monitoring (Location see Drg No. EM/401)	812 days	Fri 25/4/14	Thu 14/7/16			
181	Impact monitoring and report submission	812 days	Fri 25/4/14	Thu 14/7/16	179FF	221FF	1
182	Survey	953 days	Fri 20/12/13	Fri 29/7/16			
183	Land Survey (Container Basin & DSD Tsing Yi Plant)	938 days	Fri 20/12/13	Thu 14/7/16			
184	Settlement markers	938 days	Fri 20/12/13	Thu 14/7/16			
185	Installation	14 days	Fri 20/12/13	Thu 2/1/14	35	186	4
186	Initial survey	7 days	Mon 13/1/14	Sun 19/1/14	185	36	4
187	Interim monitoring	812 days	Fri 25/4/14	Thu 14/7/16	191FF,224,36	221FF,247	4
188	Hydrographic Survey (Portions A to E)	929 days	Mon 13/1/14	Fri 29/7/16			
189	Initial survey	14 days	Mon 13/1/14	Sun 26/1/14			
190	Field works	14 days	Mon 13/1/14	Sun 26/1/14	38	39	5
191	Interim survey	718 days	Tue 1/7/14	Fri 17/6/16	39	192,187FF	5
192	Final survey	7 days	Fri 15/7		18,231,228,221	193	5
193	Final survey report	8 days	Fri 22/7/16	Fri 29/7/16	192		N
194	Temporary Marine Traffic Management (Portions A to E)	1005 days	Mon 30/9/13	Thu 30/6/16			
195	Organizing meeting for information collection	990 days	Mon 30/9/13	Wed 15/6/16			N
196	Temporary marine traffic management and TMTM meeting	952 days	Fri 22/11/13	Thu 30/6/16	42FS-60 days,43	244	N
197	Dredging Works (Portions A to E)	957 days	Sun 1/12/13	Thu 14/7/16			
198	Interface with other contractors or utility undertakings	943 days	Sun 1/12/13	Thu 30/6/16			N
199	Organizing coordination meeting	943 days	Sun 1/12/13	Thu 30/6/16			N
200	Silt screen (Location see Drg No. EM/401)	875 days	Fri 21/2/14	Thu 14/7/16			
201	Installation of silt screen	7 days	Fri 21/2/14	Thu 27/2/14	47	202,224	6
202	Maintenance of silt screen	813 days	Thu 24/4/14	Thu 14/7/16	201	221FF,245	6
203	Dredging Works at Portions A and B	710 days	Mon 9/6/14	Wed 18/5/16			
204	General seabed	701 days	Mon 9/6/14	Mon 9/5/16			
205	Mobilization	42 days	Fri 27/6/14	Thu 7/8/14	74,77,16,57	207	7
206	Fabrication of silt curtain	7 days	Mon 9/6/14	Sun 15/6/14		207	8
207	Pilot test for silt curtain	2 days	Fri 8/6/14	Sat	74,16,47,55,57	209	7
208	Monitoring brief for unidentified sonar contacts & masked areas	3 days	Wed 2/7/14	Fri 4/7/14		209	N
209	Dredging works 1 (subject to availability of working windows)	30 days	Sun 10/8/14		7,22,27FS-130 days	217	7
210	Dredging works 2 (subject to availability of working windows)	595 days	Tue 23/9/14	Mon 9/5/16	217,69	192,221	7
211	Type 3 Cat H/ Sediment (Portion A)	292 days	Sat 1/8/15	Wed 18/5/16			
212	Procurement and delivery of Geo-container	112 days	Sat 1/8/15	Fri 20/11/15	104	214	N
213	Trial dumping operation of Type 2 sediment using geo-containers	34 days	Fri 26/2/16	Wed 30/3/16			
214	Trial dumping	34 days	Fri 26/2/16	Wed 30/3/16	85,212	215,86	7
215	Dredging works	21 days	Thu 28/4/16	Wed 18/5/16	104,214,87		7
216	Hot Spot (Portion A)	609 days	Tue 9/9/14	Mon 9/5/16			
217	Field trial at Zone Z2C	14 days	Tue 9/9/14	Mon 22/9/14	209,108	210,110	7
218	Dredging works at Z2B*	493 days	Thu 1/11/15	Mon 9/5/16	114	192	7
219	Dredging of hard material*	493 days	Thu 1/11/15	Mon 9/5/16	121	192	7
220	Outfall demolition works*	70 days	Tue 1/3/16	Mon 9/5/16		192,221	7
221	Removal of high spots*	66 days	Tue 10/5/1		*.187FF,202FF	192	7
222	Dredging Works for Portions C, D and E	707 days	Fri 18/4/14	Thu 24/3/16			
223	Dredging Works for Portion D	666 days	Fri 18/4/14	Fri 12/2/16			
224	Mobilization	7 days	Fri 18/4/14		12,123,124,125,5,226,179,187		9
225	Pilot test of silt curtain	2 days	Fri 25/4/14	Sat 26/4/14	224	226FF	9
226	Trial dredging	2 days	Fri 25/4/14	Sat 26/4/14	224,225FF	227	9
227	Dredging works	153 days	Sun 27/4/14	Fri 26/9/14	226	230,228	9
228	Removal of high spots	1 day	Fri 12/2/16	Fri 12/2/16	227,231FF	192	9



China International Water & Electric Corp. Task Critical Task Milestone Summary

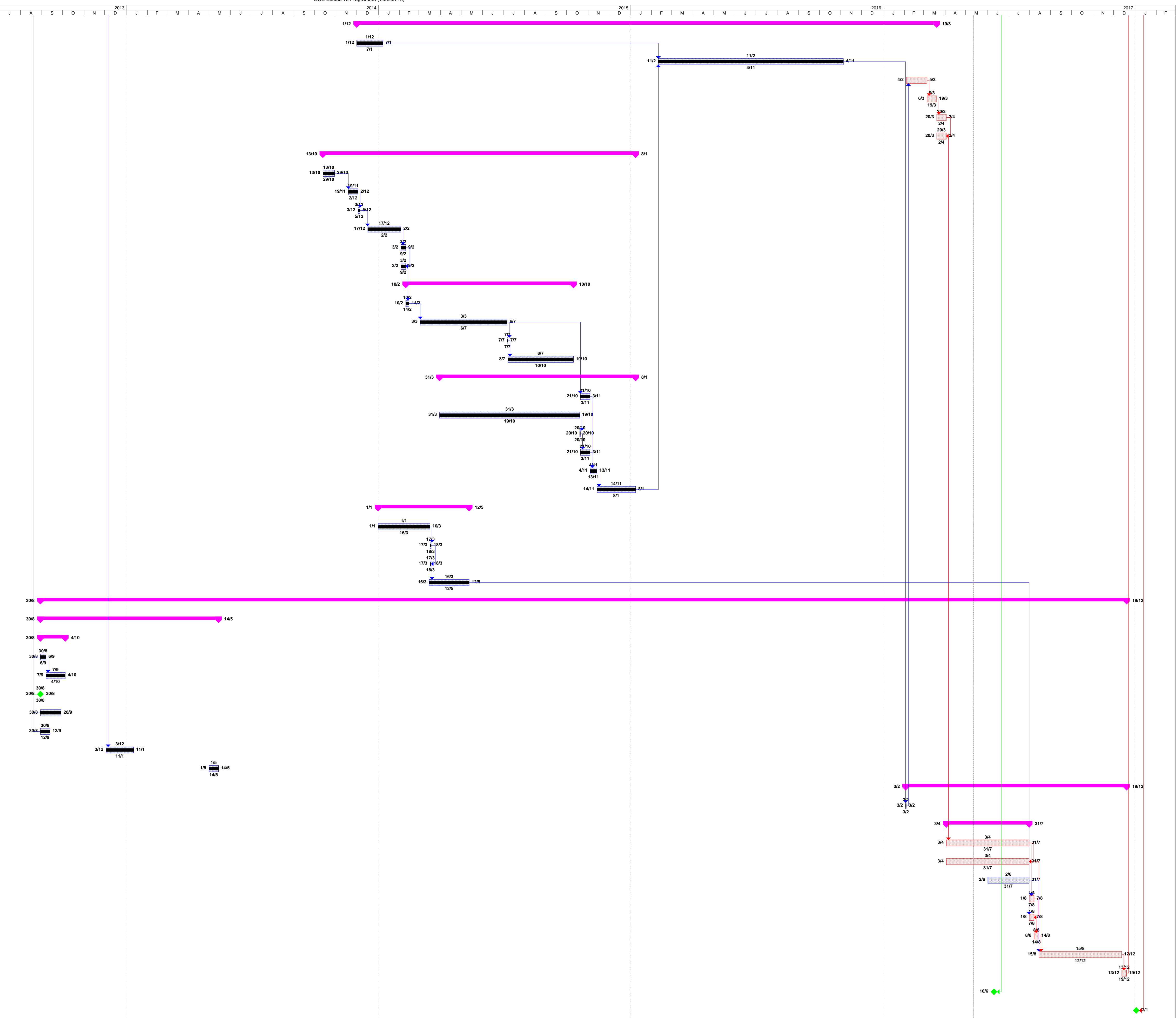
\* Subject to availability of working windows  
 \*\* The removal of broken rock material will be carried out biweekly  
 \*\*\* The frequency of interim survey is once a month



China International Water & Electric Corp. Task Critical Task Milestone Summary

\* Subject to availability of working windows  
 \*\* The removal of broken rock material will be carried out biweekly  
 \*\*\* The frequency of interim survey is once a month

ID	Task Name	Duration	Start	Finish	Predecessors	Successors	Resource Names	
286	<b>Preparation and submission</b>	<b>840 days</b>	<b>Mon 11/2/14</b>	<b>Sun 19/3/17</b>				
287	Preparation and submission	38 days	Mon 1/12/14	Wed 7/1/15		288	N	
288	Awaiting resolving TMFA constraints	268 days	Thu 11/2/16	Fri 4/11/16	287,311	328	N	
289	Further review diving safety zone with MD and HKPA	30 days	Sat 4/2/17	Sun 5/3/17	328	290	N	
290	Resubmission	14 days	Mon 6/3/17	Sun 19/3/17	289	291	N	
291	Approval by Mott	14 days	Mon 20/3/17	Sun 2/4/17	290	292FF	N	
292	Approval by DSD	14 days	Mon 20/3/17	Sun 2/4/17	291FF	330	N	
293	<b>Flow Measurement Survey</b>	<b>453 days</b>	<b>Mon 13/10/14</b>	<b>Fri 8/1/16</b>				
294	Preparation and submission	17 days	Mon 13/10/14	Wed 29/10/14		295	N	
295	Resubmission	14 days	Wed 19/11/14	Tue 2/12/14	294	296	N	
296	Further comment by Mott	3 days	Wed 3/12/14	Fri 5/12/14	295	297	N	
297	Resubmission	48 days	Wed 17/12/14	Mon 2/2/15	296	298	N	
298	Approval by Mott	7 days	Tue 3/2/15	Mon 9/2/15	297	298FF	N	
299	Approval by DSD	7 days	Tue 3/2/15	Mon 9/2/15	298FF	301	N	
300	<b>Flow Survey Measurement report</b>	<b>243 days</b>	<b>Tue 10/2/15</b>	<b>Sat 10/10/15</b>				
301	Analyzing survey data	5 days	Tue 10/2/15	Sat 14/2/15	299	302	N	
302	Preparation and submission	126 days	Tue 3/3/15	Mon 6/7/15	301	306,303	N	
303	Approval by Mott	1 day	Tue 7/7/15	Tue 7/7/15	302	304	N	
304	Approval by DSD	95 days	Wed 8/7/15	Sat 10/10/15	303		N	
305	<b>Engineer's Assessment Report on Flow Measurement Survey</b>	<b>284 days</b>	<b>Tue 31/3/15</b>	<b>Fri 8/1/16</b>				
306	Assessment calculations	14 days	Wed 21/10/15	Tue 3/11/15	302	310	N	
307	Preparation and submission	203 days	Tue 31/3/15	Mon 19/10/15		308	N	
308	Further comment by Mott	1 day	Tue 20/10/15	Tue 20/10/15	307	309	N	
309	Resubmission	14 days	Wed 21/10/15	Tue 3/11/15	308	310	N	
310	Approval by Mott	10 days	Wed 4/11/15	Fri 13/11/15	309,306	311	N	
311	Approval by DSD	56 days	Sat 14/11/15	Fri 8/1/16	310	288	N	
312	<b>Video Filming and Dye Test</b>	<b>132 days</b>	<b>Thu 1/1/15</b>	<b>Tue 12/5/15</b>				
313	Preparation and submission	75 days	Thu 1/1/15	Mon 16/3/15		314,316FS-1 day	N	
314	Approval by Mott	2 days	Tue 17/3/15	Wed 18/3/15	313	315FF	N	
315	Approval by DSD	2 days	Tue 17/3/15	Wed 18/3/15	314FF		N	
316	Using digital camera in lieu of CCTV	58 days	Mon 16/3/15	Tue 12/5/15		313FS-1 day	N	
317	<b>Works</b>	<b>1573 days</b>	<b>Fri 30/8/13</b>	<b>Tue 19/12/17</b>				
318	<b>Preliminaries (Portion F)</b>	<b>258 days</b>	<b>Fri 30/8/13</b>	<b>Wed 14/5/14</b>				
319	Contractor's mobilization	36 days	Fri 30/8/13	Fri 4/10/13				
320	Site clearance	8 days	Fri 30/8/13	Fri 6/9/13		4SS,321	10	
321	Contractor's site office	28 days	Sat 7/9/13	Fri 4/10/13		320	10	
322	Security Guard	0 days	Fri 30/8/13	Fri 30/8/13		4SS	11	
323	Temporary electricity power supply	30 days	Fri 30/8/13	Sat 28/9/13		4SS	10	
324	Engineer's Initial Temporary Accommodation	14 days	Fri 30/8/13	Thu 12/9/13		4SS	10	
325	Engineer's Principal Accommodation	40 days	Tue 3/12/13	Sat 11/1/14		283	12	
326	Engineer's Car Park	14 days	Thu 1/5/14	Wed 14/5/14			12	
327	<b>Outfall Modification Works (Location see Drg No. S202)</b>	<b>320 days</b>	<b>Fri 3/2/17</b>	<b>Tue 19/12/17</b>				
328	Underwater inspection and underwater filming	1 day	Fri 3/2/17	Fri 3/2/17		288	289	14
329	<b>Procurement of material</b>	<b>120 days</b>	<b>Mon 3/4/17</b>	<b>Mon 31/7/17</b>				
330	Non return valves	120 days	Mon 3/4/17	Mon 31/7/17		292	331FF,333	N
331	Flange adaptors	120 days	Mon 3/4/17	Mon 31/7/17		330FF	336,333	N
332	1200mm diameter concrete pipes	60 days	Fri 2/6/17	Mon 31/7/17			336,333	N
333	Dye test	7 days	Tue 1/8/17	Mon 7/8/17		332,330,331	334FF	13
334	Video filming	7 days	Tue 1/8/17	Mon 7/8/17		333FF,316	335	14
335	Dredging works	7 days	Tue 8/8/17	Mon 14/8/17		334	336	7
336	Modification works	120 days	Tue 15/8/17	Tue 12/12/17		331,332,335	337	14
337	As-built video submission	7 days	Wed 13/12/17	Tue 19/12/17		336	273	N
338	<b>Extended Contract Completion Date</b>	<b>0 days</b>	<b>Sat 10/6/17</b>	<b>Sat 10/6/17</b>			3FF	
339	<b>Revised Contract Completion Date</b>	<b>0 days</b>	<b>Tue 2/1/18</b>	<b>Tue 2/1/18</b>			273FF	



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Report No.: 0394/13/ED/0358

Appendix C  
Action and Limit Levels

Action and Limit Levels for Routine Water Quality Monitoring (Dry Season)

Monitoring Station	DO (mg/L) Surface & Middle		DO (mg/L) Bottom		Turbidity (NTU) Depth-Averaged		Suspended Solids (mg/L) Depth-averaged		BOD5(mg/L) Depth- averaged		E.coli (CFU /100mL) Depth- averaged		NH3-N (mg/L) Depth-averaged		UIA (mg/L) Depth- averaged		Synthetic Detergent as MBAS (mg/L) Depth- averaged		TIN (mg/L) Depth Averaged	
	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL
Seawater Intake																				
SR4	2	2	2	2	<10	<10	<10	<10	<10	<10	<20,000	<20,000	<1	<1	0.021	0.021	<5	<5	NA	NA
SR12																				
Fish Culture Zone																				
SR5	5.45	5.39 <sup>#</sup>	5.43	5.27 <sup>+</sup>	6.7 or 120% <sup>C*</sup>	10.1 or 130% <sup>C^</sup>	12 or 120% <sup>C*</sup>	19 or 130% <sup>C^</sup>	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.36	0.39
Gazetted Beach																				
SR2	5.45	5.39 <sup>#</sup>	5.43	5.27 <sup>+</sup>	6.7 or 120% <sup>C*</sup>	10.1 or 130% <sup>C^</sup>	12 or 120% <sup>C*</sup>	19 or 130% <sup>C^</sup>	NA	NA	NA	NA	0.21 or 120% <sup>C*</sup>	0.24 or 130% <sup>C^</sup>	0.021	0.021	NA	NA	NA	NA
SR3																				
EMSD Cooling Water Intake																				
SR13	5.31	5.22 <sup>#</sup>	5.29	5.12 <sup>+</sup>	13.1 or 120% <sup>C*</sup>	15.7 or 130% <sup>C^</sup>	23 or 120% <sup>C*</sup>	38 or 130% <sup>C^</sup>	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Note:

\* Or 120% of upstream control station at the same tide of the day

^ Or 130% of upstream control station at the same tide of the day

# According to EM&A Manual, LL of DO (surface & middle) is 5 mg/L or 1 percentile of baseline data in FCZ; 4 mg/L or 1 percentile of baseline data in other impact monitoring stations.

+ According to EM&A Manual, LL of DO (bottom) is 2 mg/L or 1 percentile of baseline data

For DO measurement, non-compliance occurs when monitoring result is lower than the limits;

For TIN, UIA, NH<sub>3</sub>-N, SS, BOD<sub>5</sub>, E.coli, synthetic detergent and turbidity, non-compliance of water quality results when monitoring results is higher than the limits;

AL/LL of TIN and NH<sub>3</sub>-N are determined from laboratory results for better accuracy and reliability. These AL/LL will be applied to both laboratory and in-situ measurements at impact stage.

Dry Season: November to March

## Action and Limit Levels for Routine Water Quality Monitoring (Wet Season)

Monitoring Station	DO (mg/L) Surface & Middle		DO (mg/L) Bottom		Turbidity (NTU) Depth-Averaged		Suspended Solids (mg/L) Depth-averaged		BOD5 (mg/L) Depth-averaged		E.coli (CFU /100mL) Depth-averaged		NH3-N (mg/L) Depth-averaged		UIA (mg/L) Depth-averaged		Synthetic Detergent as MBAS (mg/L) Depth-averaged		TIN (mg/L) Depth Averaged	
	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL
Seawater Intake																				
SR4	2	2	2	2	<10	<10	<10	<10	<10	<10	<20,000	<20,000	<1	<1	0.021	0.021	<5	<5	NA	NA
SR12																				
Fish Culture Zone																				
SR5	5.00#	5.00#	4.11	4.04+	10.8 or 120%C*	15.0 or 130%C^	12 or 120%C*	19 or 130%C^	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.45	0.50
Gazetted Beach																				
SR2	4.68	4.62#	4.11	4.04+	10.8 or 120%C*	15.0 or 130%C^	12 or 120%C*	19 or 130%C^	NA	NA	NA	NA	0.21 or 120%C*	0.24 or 130%C^	0.021	0.021	NA	NA	NA	NA
SR3																				
EMSD Cooling Water Intake																				
SR13	4.24	4.17#	3.70	3.58+	13.1 or 120%C*	15.7 or 130%C^	23 or 120%C*	38 or 130%C^	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Note:

\* Or 120% of upstream control station at the same tide of the day

^ Or 130% of upstream control station at the same tide of the day

# According to EM&A Manual, LL of DO (surface & middle) is 5 mg/L or 1 percentile of baseline data in FCZ; 4 mg/L or 1 percentile of baseline data in other impact monitoring stations. (5%ile & 1 %ile determined from wet season baseline data for cluster 1 (4.68mg/L & 4.62mg/L) and cluster 2 (5.00mg/L & 4.82mg/L) are 5mg/L or below, thus 5mg/L was adopted as the AL & LL for the SR in FCZ)

+ According to EM&A Manual, LL of DO (bottom) is 2 mg/L or 1 percentile of baseline data

Referring to the ER Letter ref. (CV/2013/04)/M45/400/1247 dated 19 March 2015, a Revised Baseline Water Quality Monitoring Test Methodology – Review of Action and Limit Levels has been submitted to EPD by ER in March 2015. The Action and Limit Level for the wet season (April – October) was effected and applied to the water quality monitoring data from 1 April 2015.

For DO measurement, non-compliance occurs when monitoring result is lower than the limits;

For TIN, UIA, NH<sub>3</sub>-N, SS, BOD<sub>5</sub>, E.coli, synthetic detergent and turbidity, non-compliance of water quality results when monitoring results is higher than the limits;

AL/LL of TIN and NH<sub>3</sub>-N are determined from laboratory results for better accuracy and reliability. These AL/LL will be applied to both laboratory and in-situ measurements at impact stage.

Wet season: April to October

Action and Limit Levels for 24-hr Water Quality Monitoring (Dry Season)

Monitoring Station	DO (mg/L) Surface		Turbidity (NTU) Surface		Ammonia-N (mg/L) Surface	
	AL	LL	AL	LL	AL	LL
WSD Seawater Intake						
SR4	2	2	<10	<10	<1	<1
SR12						
Fish Culture Zone						
SR5	5.46	5.39	6.0	7.9	NA	NA
EMSD Cooling Water Intake						
SR13	5.28	5.22	11.9	13.3	NA	NA

Note: According to EM&A Manual, LL of DO (surface & middle) is 5 mg/L or 1 percentile of baseline data in FCZ; 4 mg/L or 1 percentile of baseline data in other impact monitoring stations.

Dry Season: November to March.

Action and Limit Levels for 24-hr Water Quality Monitoring (Wet Season)

Monitoring Station	DO (mg/L) Surface		Turbidity (NTU) Surface		Ammonia-N (mg/L) Surface	
	AL	LL	AL	LL	AL	LL
WSD Seawater Intake						
SR4	2	2	<10	<10	<1	<1
SR12						
Fish Culture Zone						
SR5	5.24	5.13	9.7	14.4	NA	NA
EMSD Cooling Water Intake						
SR13	4.23	4.17	11.9	13.3	NA	NA

Note: # According to EM&A Manual, LL of DO (surface & middle) is 5 mg/L or 1 percentile of baseline data in FCZ; 4 mg/L or 1 percentile of baseline data in other impact monitoring stations. (1 %ile determined from wet season baseline data for cluster 2 (4.78mg/L) is below 5mg/L, thus 5mg/L was adopted as the DO (surface) LL for the SR in FCZ in cluster 2 stations)

Referring to the ER Letter ref. (CV/2013/04)/M45/400/1247 dated 19 March 2015, a Revised Baseline Water Quality Monitoring Test Methodology – Review of Action and Limit Levels has been submitted to EPD by ER in March 2015. The Action and Limit Level for the wet season (April – October) was effected and applied to the water quality monitoring data from 1 April 2015.

Wet Season: April to October.

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**MaterialLab**

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Report No.: 0394/13/ED/0358

Appendix D  
Copies of Calibration Certificates



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Report No.: 0394/13/ED/0358

Calibration Certificates  
Impact Monitoring

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# MaterialLab

Report No. : 142626WA170453



Page 1 of 3

## Report on Calibration of YSI 69201V2-M Multi-parameter Water Quality Meter

### Information Supplied by Client

Client : MaterialLab Consultants Limited

Client's address : Rm. 23, 25, 7/F, Profit Industrial Building, No. 1-15,  
Kwai Fung Crescent, Kwai Chung, N.T.

Project : CV/2013/04 – Providing Sufficient Water Depth for  
Kwai Tsing Container Basin and its Approach Channel

Sample description : One YSI 69201V2-M Multi-parameter Water Quality Meter

Client sample ID : Serial No. 14A102903

Test required : Calibration of the YSI 69201V2-M Multi-parameter Water Quality  
Meter

### Laboratory Information

Lab. sample ID : WA170453/1

Date sample received : 03/04/2017

Date of calibration : 03/04/2017

Next calibration date : 02/07/2017

Test method used : In-house comparison method

*Note : This report refers only to the sample(s) tested.*

Report No. : 142626WA170453

Page 2 of 3

**Results :**

**A. pH calibration**

pH reading at 23°C for Q.C. solution(6.86) and at 23°C for Q.C. solution(9.18)		
Theoretical	Measured	Deviation
9.18	9.26	+0.08
6.86	6.91	+0.05

**B. Salinity calibration**

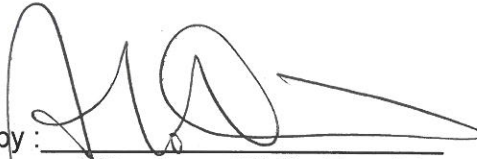
Salinity, ppt			
Theoretical	Measured	Deviation	Maximum acceptable Deviation
10	10.00	0.00	± 0.5
20	20.07	+0.07	± 1.0
30	30.16	+0.16	± 1.5
40	39.88	-0.12	± 2.0

**C. Dissolved Oxygen calibration**

Trial No.	Dissolved oxygen content, mg/L	
	By Titration	By D.O. meter
1	8.32	8.34
2	8.24	8.38
3	8.28	8.38
Average	8.28	8.37

Differences of D.O. Content between Wrinkler Titration and D.O. meter should be less than 0.4 mg/L

Supervised by : Y. M. Chung

Certified by :   
Approved Signatory : HO Kin Man, John  
Manager – Chemistry Department

Date : 2/5/2017

*Note : This report refers only to the sample(s) tested.*

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Report No. : 142626WA170453

Page 3 of 3

## Results :

### D. Temperature calibration

Thermometer reading, °C	Meter reading, °C
23.4	22.98

### E. Turbidity calibration

Turbidity, N.T.U.			
Theoretical	Measured	Deviation	Maximum acceptable Deviation
4	3.7	-0.30	± 0.4
8	8.2	+0.20	± 0.6
40	38.6	-1.40	± 3.0
80	76.9	-3.10	± 4.0

Supervised by : Y. M. Chung

Certified by : 

Approved Signatory : HO Kin Man, John  
Manager – Chemistry Department

Date : 2/5/2017

\*\* End of Report \*\*

*Note : This report refers only to the sample(s) tested.*

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 Fax : (852)-24508032  
 Email : mcl@fugro.com.hk

**MaterialLab****Photometer Check Log**

Calibration Date:	17 April 2017		
Parameter:	NO <sub>2</sub> -N		
Check Solution ID:	0.2 mg/L NO <sub>2</sub> -N		
Check Solution Prepared by:	Fugro Technical Services		
Check Solution Concentration (mg/L):	0.2 mg/L		
Equipment (Brand & Model, Equipment No.):	Lovibond MD600 W-18	Lovibond MD600 W-20	Lovibond MD600 W-21
Concentration Reading on Photometer:	0.19 mg/L	0.21 mg/L	0.21 mg/L
Next Calibration Date:	16 May 2017		

Prepared by: Date: 17 April 2017Checked by: Date: 17 April 2017



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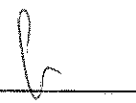
**MaterialLab****Photometer Check Log**

<b>Calibration Date:</b>	17 April 2017		
<b>Parameter:</b>	NO <sub>3</sub> -N		
<b>Check Solution ID:</b>	0.4 mg/L NO <sub>3</sub> -N		
<b>Check Solution Prepared by:</b>	Fugro Technical Services		
<b>Check Solution Concentration (mg/L):</b>	0.4 mg N/L		
<b>Equipment (Brand &amp; Model, Equipment No.):</b>	HACH DR900 W-09	HACH DR900 W-10	HACH DR900 W-11
<b>Concentration Reading on Photometer:</b>	0.425 mg/L	0.380 mg/L	0.395 mg/L
<b>Next Calibration Date:</b>	16 May 2017		

Prepared by: \_\_\_\_\_



Checked by: \_\_\_\_\_


Date: 17 April 2017Date: 17 April 2017









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**MaterialLab**

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Report No.: 0394/13/ED/0358

Calibration Certificate  
24-hr Monitoring

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**MaterialLab**

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Calibration Certificate  
24-hr Monitoring – SR4

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Report No. : 142626WA170223



Page 1 of 2

## Report on Calibration of YSI 69201V2-M Multi-parameter Water Quality Meter

### Information Supplied by Client

Client : MaterialLab Consultants Limited

Client's address : Rm. 23, 25, 7/F, Profit Industrial Building, No. 1-15,  
Kwai Fung Crescent, Kwai Chung, N.T.

Project : CV/2013/04 – Providing Sufficient Water Depth for  
Kwai Tsing Container Basin and its Approach Channel

Sample description : One YSI 69201V2-M Multi-parameter Water Quality Meter

Client sample ID : Serial No. 14E102239

Test required : Calibration of the YSI 69201V2-M Multi-parameter Water Quality  
Meter

### Laboratory Information

Lab. sample ID : WA170223/1

Date sample received : 20/02/2017

Date of calibration : 20/02/2017

Next calibration date : 19/05/2017

Test method used : In-house comparison method

*Note : This report refers only to the sample(s) tested.*

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Report No. : 142626WA170223

Page 2 of 2

**Results :****A. Dissolved Oxygen calibration**

Trial No.	Dissolved oxygen content, mg/L	
	By Titration	By D.O. meter
1	8.32	8.48
2	8.56	8.53
3	8.56	8.51
Average	8.48	8.51

Differences of D.O. Content between Winkler Titration and D.O. meter should be less than 0.4 mg/L

**B. Temperature calibration**

Thermometer reading, °C	Meter reading, °C
22.0	21.81

**C. Turbidity calibration**

Turbidity, N.T.U.			
Theoretical	Measured	Deviation	Maximum acceptable Deviation
0	-0.4	-0.40	± 0.8
4	4.1	+0.10	± 1.2
8	8.0	0.00	± 1.5
40	40.3	+0.30	± 3.0
80	80.3	+0.30	± 4.0

Supervised by : Y. M. Chung

Certified by :   
Approved Signatory : HO Kin Man, John  
Manager – Chemistry Department

Date : 6/3/2017

**\*\* End of Report \*\***

*Note : This report refers only to the sample(s) tested.*

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# MaterialLab

Report No. : 142626WA170453(2)



Page 1 of 2

## Report on Calibration of YSI 69201V2-M Multi-parameter Water Quality Meter

### Information Supplied by Client

Client : MaterialLab Consultants Limited

Client's address : Rm. 23, 25, 7/F, Profit Industrial Building, No. 1-15,  
Kwai Fung Crescent, Kwai Chung, N.T.

Project : CV/2013/04 – Providing Sufficient Water Depth for  
Kwai Tsing Container Basin and its Approach Channel

Sample description : One YSI 69201V2-M Multi-parameter Water Quality Meter

Client sample ID : Serial No. 14A102907

Test required : Calibration of the YSI 69201V2-M Multi-parameter Water Quality  
Meter

### Laboratory Information

Lab. sample ID : WA170453/3

Date sample received : 03/04/2017

Date of calibration : 03/04/2017

Next calibration date : 02/07/2017

Test method used : In-house comparison method

*Note : This report refers only to the sample(s) tested.*

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Report No. : 142626WA170453(2)

Page 2 of 2

**Results :****A. Dissolved Oxygen calibration**

Trial No.	Dissolved oxygen content, mg/L	
	By Titration	By D.O. meter
1	8.32	8.47
2	8.32	8.46
3	8.28	8.46
Average	8.31	8.46

Differences of D.O. Content between Wrinkler Titration and D.O. meter should be less than 0.4 mg/L

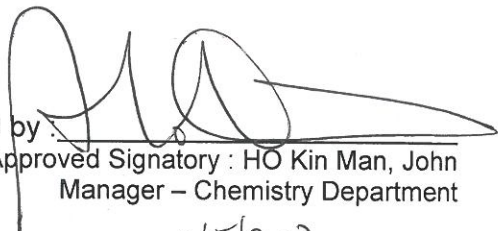
**B. Temperature calibration**

Thermometer reading, °C	Meter reading, °C
23.8	23.04

**C. Turbidity calibration**

Turbidity, N.T.U.			
Theoretical	Measured	Deviation	Maximum acceptable Deviation
4	4.2	+0.20	± 0.4
8	8.0	0.00	± 0.6
40	37.7	-2.30	± 3.0
80	76.9	-3.10	± 4.0

Supervised by : Y. M. Chung

Certified by :   
Approved Signatory : HO Kin Man, John  
Manager – Chemistry Department

Date : 2/5/2017**\*\* End of Report \*\***

Note : This report refers only to the sample(s) tested.



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Calibration Certificate  
24-hr Monitoring – SR5

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Report No. : 142626WA170223(1)



Page 1 of 2

## Report on Calibration of YSI 69201V2-M Multi-parameter Water Quality Meter

### Information Supplied by Client

Client : MaterialLab Consultants Limited

Client's address : Rm. 23, 25, 7/F, Profit Industrial Building, No. 1-15,  
Kwai Fung Crescent, Kwai Chung, N.T.

Project : CV/2013/04 – Providing Sufficient Water Depth for  
Kwai Tsing Container Basin and its Approach Channel

Sample description : One YSI 69201V2-M Multi-parameter Water Quality Meter

Client sample ID : Serial No. 14A102908

Test required : Calibration of the YSI 69201V2-M Multi-parameter Water Quality  
Meter

### Laboratory Information

Lab. sample ID : WA170223/2

Date sample received : 20/02/2017

Date of calibration : 20/02/2017

Next calibration date : 19/05/2017

Test method used : In-house comparison method

*Note : This report refers only to the sample(s) tested.*

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Report No. : 142626WA170223(1)

Page 2 of 2

**Results :****A. Dissolved Oxygen calibration**

Trial No.	Dissolved oxygen content, mg/L	
	By Titration	By D.O. meter
1	8.52	8.71
2	8.28	8.48
3	8.64	8.58
Average	8.48	8.59

Differences of D.O. Content between Wrinkler Titration and D.O. meter should be less than 0.4 mg/L

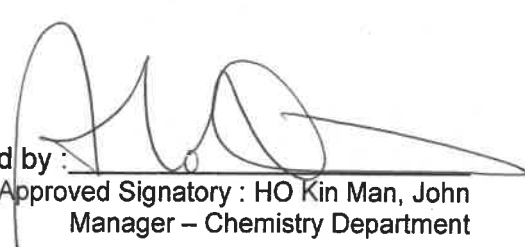
**B. Temperature calibration**

Thermometer reading, °C	Meter reading, °C
22.0	21.81

**C. Turbidity calibration**

Turbidity, N.T.U.			
Theoretical	Measured	Deviation	Maximum acceptable Deviation
0	-0.2	-0.20	± 0.8
4	4.2	+0.20	± 1.2
8	7.9	-0.10	± 1.5
40	39.0	-1.00	± 3.0
80	79.6	-0.40	± 4.0

Supervised by : Y. M. Chung

Certified by :   
Approved Signatory : HO Kin Man, John  
Manager – Chemistry Department

Date : 6/3/2017

**\*\* End of Report \*\***

*Note : This report refers only to the sample(s) tested.*

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# MaterialLab

Report No. : 142626WA170453(3)



Page 1 of 2

### Report on Calibration of YSI 69201V2-M Multi-parameter Water Quality Meter

#### Information Supplied by Client

Client : MaterialLab Consultants Limited

Client's address : Rm. 23, 25, 7/F, Profit Industrial Building, No. 1-15,  
Kwai Fung Crescent, Kwai Chung, N.T.

Project : CV/2013/04 – Providing Sufficient Water Depth for  
Kwai Tsing Container Basin and its Approach Channel

Sample description : One YSI 69201V2-M Multi-parameter Water Quality Meter

Client sample ID : Serial No. 14J102670

Test required : Calibration of the YSI 69201V2-M Multi-parameter Water Quality  
Meter

#### Laboratory Information

Lab. sample ID : WA170453/4

Date sample received : 03/04/2017

Date of calibration : 03/04/2017

Next calibration date : 02/07/2017

Test method used : In-house comparison method

*Note : This report refers only to the sample(s) tested.*

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E-mail : matlab@fugro.com  
Website : www.fugro.com



Report No. : 142626WA170453(3)

Page 2 of 2

**Results :****A. Dissolved Oxygen calibration**

Trial No.	Dissolved oxygen content, mg/L	
	By Titration	By D.O. meter
1	8.44	8.40
2	8.48	8.41
3	8.24	8.44
Average	8.39	8.42

Differences of D.O. Content between Wrinkler Titration and D.O. meter should be less than 0.4 mg/L

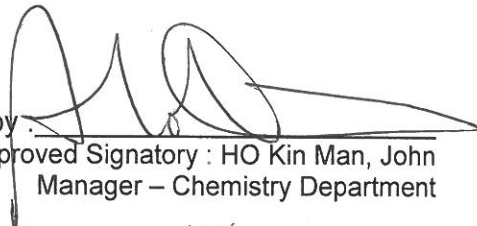
**B. Temperature calibration**

Thermometer reading, °C	Meter reading, °C
23.4	23.13

**C. Turbidity calibration**

Turbidity, N.T.U.			
Theoretical	Measured	Deviation	Maximum acceptable Deviation
4	4.1	+0.10	± 0.4
8	8.0	0.00	± 0.6
40	37.7	-2.30	± 3.0
80	76.9	-3.10	± 4.0

Supervised by : Y. M. Chung

Certified by :   
Approved Signatory : HO Kin Man, John  
Manager – Chemistry Department

Date : 2/5/2017

**\*\* End of Report \*\***

*Note : This report refers only to the sample(s) tested.*

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Calibration Certificate  
24-hr Monitoring – SR12

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# MaterialLab

Report No. : 142626WA170453(4)



Page 1 of 2

## Report on Calibration of YSI 69201V2-M Multi-parameter Water Quality Meter

### Information Supplied by Client

Client : MaterialLab Consultants Limited

Client's address : Rm. 23, 25, 7/F, Profit Industrial Building, No. 1-15,  
Kwai Fung Crescent, Kwai Chung, N.T.

Project : CV/2013/04 – Providing Sufficient Water Depth for  
Kwai Tsing Container Basin and its Approach Channel

Sample description : One YSI 69201V2-M Multi-parameter Water Quality Meter

Client sample ID : Serial No. 14A102899

Test required : Calibration of the YSI 69201V2-M Multi-parameter Water Quality  
Meter

### Laboratory Information

Lab. sample ID : WA170453/5

Date sample received : 03/04/2017

Date of calibration : 03/04/2017

Next calibration date : 02/07/2017

Test method used : In-house comparison method

*Note : This report refers only to the sample(s) tested.*

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**MaterialLab**

Report No. : 142626WA170453(4)

Page 2 of 2

**Results :****A. Dissolved Oxygen calibration**

Trial No.	Dissolved oxygen content, mg/L	
	By Titration	By D.O. meter
1	8.80	8.70
2	8.48	8.64
3	8.56	8.71
Average	8.61	8.68

Differences of D.O. Content between Wrinkler Titration and D.O. meter should be less than 0.4 mg/L

**B. Temperature calibration**

Thermometer reading, °C	Meter reading, °C
21.5	21.29

**C. Turbidity calibration**

Turbidity, N.T.U.			
Theoretical	Measured	Deviation	Maximum acceptable Deviation
4	3.9	-0.10	± 0.4
8	7.8	-0.2	± 0.6
40	39.5	-0.5	± 3.0
80	77.8	-2.2	± 4.0

Supervised by : Y. M. Chung

Certified by :   
Approved Signatory : HO Kin Man, John  
Manager – Chemistry Department

Date : 25/2/2017**\*\* End of Report \*\****Note : This report refers only to the sample(s) tested.*



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**MaterialLab**

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Calibration Certificate  
24-hr Monitoring – SR13

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# MaterialLab

Report No. : 142626WA170453(1)



Page 1 of 2

## Report on Calibration of YSI 69201V2-M Multi-parameter Water Quality Meter

### Information Supplied by Client

Client : MaterialLab Consultants Limited

Client's address : Rm. 23, 25, 7/F, Profit Industrial Building, No. 1-15,  
Kwai Fung Crescent, Kwai Chung, N.T.

Project : CV/2013/04 – Providing Sufficient Water Depth for  
Kwai Tsing Container Basin and its Approach Channel

Sample description : One YSI 69201V2-M Multi-parameter Water Quality Meter

Client sample ID : Serial No. 14A102900

Test required : Calibration of the YSI 69201V2-M Multi-parameter Water Quality  
Meter

### Laboratory Information

Lab. sample ID : WA170453/2

Date sample received : 03/04/2017

Date of calibration : 03/04/2017

Next calibration date : 02/07/2017

Test method used : In-house comparison method

*Note : This report refers only to the sample(s) tested.*

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Website : www.fugro.com

# MaterialLab

Report No. : 142626WA170453(1)

Page 2 of 2

## Results :

### A. Dissolved Oxygen calibration

Trial No.	Dissolved oxygen content, mg/L	
	By Titration	By D.O. meter
1	8.52	8.42
2	8.32	8.40
3	8.32	8.41
Average	8.39	8.41

Differences of D.O. Content between Wrinkler Titration and D.O. meter should be less than 0.4 mg/L

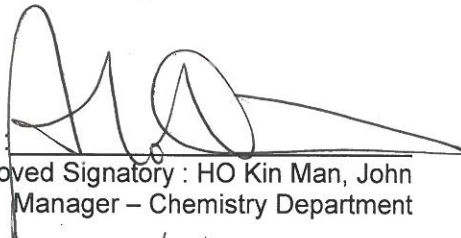
### B. Temperature calibration

Thermometer reading, °C	Meter reading, °C
23.4	22.98

### C. Turbidity calibration

Turbidity, N.T.U.			
Theoretical	Measured	Deviation	Maximum acceptable Deviation
4	4.3	+0.30	± 0.4
8	7.5	-0.50	± 0.6
40	38.4	-1.60	± 3.0
80	76.9	-3.10	± 4.0

Supervised by : Y. M. Chung

Certified by :   
Approved Signatory : HO Kin Man, John  
Manager – Chemistry Department

Date : 2/5/2017

\*\* End of Report \*\*

Note : This report refers only to the sample(s) tested.

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Calibration Certificate  
24-hr Monitoring – Micromac 1000





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**MaterialLab**

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Report No.: 0394/13/ED/0358

Appendix E

Schedules for Routine Impact Water Quality Monitoring

Water Quality Monitoring Schedule (Present Reporting Period)

Sun	Mon	Tue	Wed	Thur	Fri	Sat
23 April 2017	24	25 Routine WQM Mid-Ebb (11:36) Mid-Flood (17:42)	26	27 Routine WQM Mid-Flood (06:35) Mid-Ebb (12:56)	28	29 Routine WQM Mid-Flood (07:51) Mid-Ebb (14:25)
30	1 May 2017	2 Routine WQM Mid-Flood (10:05) Mid-Ebb (17:20)	3	4 Routine WQM Mid-Ebb (07:47) Mid-Flood (12:52)	5	6 Routine WQM Mid-Ebb (09:56) Mid-Flood (15:39)
7	8	9 Routine WQM Mid-Ebb (11:39) Mid-Flood (18:01)	10	11 Routine WQM Mid-Flood (06:14) Mid-Ebb (12:39)	12	13 Routine WQM Mid-Flood (07:12) Mid-Ebb (13:44)
14	15	16 Routine WQM Mid-Flood (08:37) Mid-Ebb (15:32)	17	18 Routine WQM Mid-Flood (10:06) Mid-Ebb (17:21)	19	20 Routine WQM Mid-Ebb (08:26) Mid-Flood (13:16)
21	22					

**Remarks**

1. Actual monitoring will be subjected to change due to any safety concern or adverse weather condition.
2. According to the approved proposal (0394\_13\_ED\_03321), starting from 23 January 2017, routine impact water quality monitoring locations are SR2, SR3, SR4, SR5, SR12, SR13, G2, C1A and C2A.



Water Quality Monitoring Schedule (Next Reporting Period)

Sun	Mon	Tue	Wed	Thur	Fri	Sat
		23 May 2017 Routine WQM Mid-Ebb (10:30) Mid-Flood (16:35)	24	25 Routine WQM Mid-Ebb (11:54) Mid-Flood (18:24)	26	27 Routine WQM Mid-Flood (06:46) Mid-Ebb (13:25)
28	29	30 Routine WQM Mid-Flood (09:00) Mid-Ebb (16:04)	31	1 June 2017 Routine WQM Mid-Flood (10:56) Mid-Ebb (18:03)	2	3 Routine WQM Mid-Ebb (8:28) Mid-Flood (14:13)
4	5	6 Routine WQM Mid-Ebb (10:46) Mid-Flood (17:08)	7	8 Routine WQM Mid-Ebb (11:48) Mid-Flood (18:36)	9	10 Routine WQM Mid-Flood (6:08) Mid-Ebb (12:51)
11	12	13 Routine WQM Mid-Flood (7:50) Mid-Ebb (14:36)	14	15 Routine WQM Mid-Flood (9:10) Mid-Ebb (15:59)	16	17 Routine WQM Mid-Flood (10:59) Mid-Ebb (17:42)
18	19	20 Routine WQM Mid-Ebb (9:16) Mid-Flood (15:20)	21	22 Routine WQM Mid-Ebb (10:50) Mid-Flood (17:24)		

**Remarks**

- Actual monitoring will be subjected to change due to any safety concern or adverse weather condition.
- According to the approved proposal (0394\_13\_ED\_03321), starting from 23 January 2017, routine impact water quality monitoring locations are SR2, SR3, SR4, SR5, SR12, SR13, G2, C1A and C2A.

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**MaterialLab**

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Report No.: 0394/13/ED/0358

Appendix F

Water Quality Monitoring Results and Graphical Presentation – Routine Impact Monitoring







Impact Monitoring Data

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	Laboratory Analysis																																															
										Total Suspended Solids (mg/L)			Ammonia Nitrogen (mg/L-N)			UIA (mg/L-N)			TIN-Ammonia (mg/L-N)	TIN-Nitrate (mg/L-N)	TIN-Nitrite (mg/L-N)	Total Inorganic Nitrogen (mg/L-N)			E.coli (cfu/100mL)			Synthetic Detergent (mg/L)			BOD <sub>5</sub> (mg/L)																										
										Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Value	Value	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.																								
SR4	25/4/2017	Mid-Flood	Rainy	Moderate	15:50	4	S	1	1	8	8	0.12	0.11	0.12	0.003	0.003	0.003	NA	NA	NA	NA	NA	120	150	134	97	NA	NA	NA	1	1	1																									
SR4	25/4/2017	Mid-Flood	Rainy	Moderate	15:50	4	S	1	2	7																							NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SR4	25/4/2017	Mid-Flood	Rainy	Moderate	15:50	4	S	1	3	6																							NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR4	25/4/2017	Mid-Flood	Rainy	Moderate	15:50	4	M	1	1	1	NA	9	NA	0.13	NA	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA																							
SR4	25/4/2017	Mid-Flood	Rainy	Moderate	15:50	4	M	1	2	2																									NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR4	25/4/2017	Mid-Flood	Rainy	Moderate	15:50	4	M	1	3	3																									NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR4	25/4/2017	Mid-Flood	Rainy	Moderate	15:50	4	B	3	1	9	10	0.13	0.15	0.14	0.003	0.004	0.004	NA	NA	NA	NA	NA	76	65	70	NA	NA	NA	1	1	1																										
SR4	25/4/2017	Mid-Flood	Rainy	Moderate	15:50	4	B	3	2	11																						NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SR4	25/4/2017	Mid-Flood	Rainy	Moderate	15:50	4	B	3	3	3																						NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR5	25/4/2017	Mid-Flood	Rainy	Moderate	14:48	11	S	1	1	7	7	NA	NA	NA	NA	NA	NA	0.12	0.37	0.02	0.51	0.51	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA																							
SR5	25/4/2017	Mid-Flood	Rainy	Moderate	14:48	11	S	1	2	6																									NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR5	25/4/2017	Mid-Flood	Rainy	Moderate	14:48	11	S	1	3	3																									NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR5	25/4/2017	Mid-Flood	Rainy	Moderate	14:48	11	M	5.5	1	12	12	10	NA	NA	NA	NA	NA	0.13	0.36	0.03	0.52	0.52	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA																							
SR5	25/4/2017	Mid-Flood	Rainy	Moderate	14:48	11	M	5.5	2	11																									NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR5	25/4/2017	Mid-Flood	Rainy	Moderate	14:48	11	M	5.5	3	3																									NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR5	25/4/2017	Mid-Flood	Rainy	Moderate	14:48	11	B	10	1	11	12	NA	NA	NA	NA	NA	NA	0.12	0.35	0.03	0.50	0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA																							
SR5	25/4/2017	Mid-Flood	Rainy	Moderate	14:48	11	B	10	2	12																									NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR5	25/4/2017	Mid-Flood	Rainy	Moderate	14:48	11	B	10	3	3																									NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR12	25/4/2017	Mid-Flood	Rainy	Moderate	16:03	15	S	1	1	6	7	0.19	0.21	0.20	0.005	0.005	0.005	NA	NA	NA	NA	NA	960	850	903	218	NA	NA	NA	1	1	1																									
SR12	25/4/2017	Mid-Flood	Rainy	Moderate	16:03	15	S	1	2	8																							NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR12	25/4/2017	Mid-Flood	Rainy	Moderate	16:03	15	S	1	3	3																							NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR12	25/4/2017	Mid-Flood	Rainy	Moderate	16:03	15	M	7.5	1	9	9	0.22	0.23	0.23	0.005	0.005	0.005	NA	NA	NA	NA	NA	16	18	17	NA	NA	NA	1	1	1																										
SR12	25/4/2017	Mid-Flood	Rainy	Moderate	16:03	15	M	7.5	2	8																						NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SR12	25/4/2017	Mid-Flood	Rainy	Moderate	16:03	15	M	7.5	3	3																						NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR12	25/4/2017	Mid-Flood	Rainy	Moderate	16:03	15	B	14	1	8	9	0.22	0.22	0.22	0.005	0.005	0.005	NA	NA	NA	NA	NA	620	740	677	NA	NA	NA	<1	<1	1																										
SR12	25/4/2017	Mid-Flood	Rainy	Moderate	16:03	15	B	14	2	9																						NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SR12	25/4/2017	Mid-Flood	Rainy	Moderate	16:03	15	B	14	3	3																						NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR13	25/4/2017	Mid-Flood	Rainy	Moderate	16:17	14	S	1	1	6	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA																							
SR13	25/4/2017	Mid-Flood	Rainy	Moderate	16:17	14	S	1	2	4																									NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR13	25/4/2017	Mid-Flood	Rainy	Moderate	16:17	14	S	1	3	3																									NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR13	25/4/2017	Mid-Flood	Rainy	Moderate	16:17	14	M	7	1	8	9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA																							
SR13	25/4/2017	Mid-Flood	Rainy	Moderate	16:17	14	M	7	2	9																									NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR13	25/4/2017	Mid-Flood	Rainy	Moderate	16:17	14	M	7	3	3																									NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR13	25/4/2017	Mid-Flood	Rainy	Moderate	16:17	14	B	13	1	8	9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA																							
SR13	25/4/2017	Mid-Flood	Rainy	Moderate	16:17	14	B	13	2	9																									NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR13	25/4/2017	Mid-Flood	Rainy	Moderate	16:17	14	B	13	3	3																									NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Note: 1. Depth Ave.: (Except E.coli) "Depth-averaged" is calculated by taking the arithmetic means for the reading of the surface, middle and bottom depths  
 2. ND: Not Detected  
 3. Depth Averaged of E.coli is calculated by taking geometric mean of the readings of the surface, middle and bottom, all ND sample results (<1) for E.coli is regarded as 1 in calculating the geometric mean.







Impact Monitoring Data

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	Laboratory Analysis																														
										Total Suspended Solids (mg/L)			Ammonia Nitrogen (mg/L-N)			UIA (mg/L-N)			TIN-Ammonia (mg/L-N)	TIN-Nitrate (mg/L-N)	TIN-Nitrite (mg/L-N)	Total Inorganic Nitrogen (mg/L-N)			E.coli (cfu/100mL)			Synthetic Detergent (mg/L)			BOD <sub>5</sub> (mg/L)									
										Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Value	Value	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.							
C1A	25/4/2017	Mid-Ebb	Rainy	Moderate	13:07	28	S	1	1	6	6	8	0.13	0.14	0.12	0.004	0.004	0.003	0.13	0.37	0.03	0.53	0.51	0.51	170	180	184	NA	NA	NA	<1	1	1							
C1A	25/4/2017	Mid-Ebb	Rainy	Moderate	13:07	28	S	1	2	6			0.14	0.14		0.004	0.004		0.14	0.35	0.03	0.52			35	42		38	NA		NA	NA		<1	1					
C1A	25/4/2017	Mid-Ebb	Rainy	Moderate	13:07	28	S	1	3	6			0.11	0.12		0.003	0.003		0.10	0.36	0.03	0.49			35	42		38	NA		NA	NA		<1	1					
C1A	25/4/2017	Mid-Ebb	Rainy	Moderate	13:07	28	M	14	1	6	7	8	0.11	0.12	0.12	0.003	0.003	0.003	0.11	0.36	0.03	0.50	0.51	0.51	170	180	184	NA	NA	NA	<1	1	1							
C1A	25/4/2017	Mid-Ebb	Rainy	Moderate	13:07	28	M	14	2	7			0.13	0.12		0.004	0.003		0.13	0.36	0.03	0.52			35	42		38	NA		NA	NA		<1	1					
C1A	25/4/2017	Mid-Ebb	Rainy	Moderate	13:07	28	M	14	3	6			0.12	0.12		0.003	0.003		0.12	0.36	0.03	0.51			35	42		38	NA		NA	NA		<1	1					
C1A	25/4/2017	Mid-Ebb	Rainy	Moderate	13:07	28	B	27	1	9	10	10	0.12	0.12	0.20	0.003	0.003	0.004	0.12	0.36	0.03	0.50	0.51	0.51	920	900	398	NA	NA	NA	<1	1	1							
C1A	25/4/2017	Mid-Ebb	Rainy	Moderate	13:07	28	B	27	2	11			0.11	0.12		0.003	0.003		0.11	0.36	0.03	0.50			920	900		398	NA		NA	NA		<1	1					
C1A	25/4/2017	Mid-Ebb	Rainy	Moderate	13:07	28	B	27	3	11			0.18	0.19		0.003	0.004		0.18	0.16	0.02	0.38			86	98		92	NA		NA	NA		<1	1					
C2A	25/4/2017	Mid-Ebb	Rainy	Moderate	11:00	13	S	1	1	8	9	11	0.19	0.21	0.20	0.003	0.004	0.004	0.19	0.17	0.02	0.38	0.40	0.39	860	824	398	NA	NA	NA	1	1	1							
C2A	25/4/2017	Mid-Ebb	Rainy	Moderate	11:00	13	S	1	2	10			0.23	0.21		0.004	0.004		0.23	0.16	0.02	0.41			790	760		836	NA		NA	NA		<1	1					
C2A	25/4/2017	Mid-Ebb	Rainy	Moderate	11:00	13	S	1	3	11			0.21	0.21		0.004	0.004		0.21	0.16	0.02	0.39			920	760		836	NA		NA	NA		1	1					
C2A	25/4/2017	Mid-Ebb	Rainy	Moderate	11:00	13	M	6.5	1	11	10	11	0.20	0.21	0.20	0.004	0.004	0.004	0.20	0.16	0.02	0.38	0.39	0.39	760	836	398	NA	NA	NA	1	1	1							
C2A	25/4/2017	Mid-Ebb	Rainy	Moderate	11:00	13	M	6.5	2	9			0.20	0.21		0.004	0.004		0.20	0.16	0.02	0.38			760	836		398	NA		NA	NA		1	1					
C2A	25/4/2017	Mid-Ebb	Rainy	Moderate	11:00	13	M	6.5	3	13			0.18	0.19		0.003	0.004		0.18	0.16	0.02	0.36			86	98		92	NA		NA	NA		<1	1					
C2A	25/4/2017	Mid-Ebb	Rainy	Moderate	11:00	13	B	12	1	13	13	13	0.20	0.19	0.20	0.004	0.004	0.004	0.20	0.16	0.02	0.38	0.36	0.36	98	92	398	NA	NA	NA	1	1	1							
C2A	25/4/2017	Mid-Ebb	Rainy	Moderate	11:00	13	B	12	2	12			0.18	0.19		0.003	0.004		0.18	0.15	0.02	0.35			98	92		398	NA		NA	NA		1	1					
C2A	25/4/2017	Mid-Ebb	Rainy	Moderate	11:00	13	B	12	3	13			0.20	0.19		0.004	0.004		0.20	0.16	0.02	0.38			98	92		398	NA		NA	NA		1	1					
G2	25/4/2017	Mid-Ebb	Rainy	Moderate	12:18	12	S	1	1	8	8	9	NA	NA	NA	NA	NA	NA	0.16	0.22	0.02	0.40	0.39	0.39	NA	NA	NA	NA	NA	NA	NA	NA	NA							
G2	25/4/2017	Mid-Ebb	Rainy	Moderate	12:18	12	S	1	2	8			NA	NA		NA	NA		0.14	0.20	0.03	0.37			NA	NA		NA	NA		NA	NA		NA	NA	NA	NA	NA	NA	
G2	25/4/2017	Mid-Ebb	Rainy	Moderate	12:18	12	S	1	3	9			NA	NA		NA	NA		0.15	0.22	0.02	0.39			NA	NA		NA	NA		NA	NA		NA	NA	NA	NA	NA	NA	NA
G2	25/4/2017	Mid-Ebb	Rainy	Moderate	12:18	12	M	6	1	9	9	9	NA	NA	NA	NA	NA	NA	0.16	0.20	0.03	0.39	0.38	0.39	NA	NA	NA	NA	NA	NA	NA	NA	NA							
G2	25/4/2017	Mid-Ebb	Rainy	Moderate	12:18	12	M	6	2	9			NA	NA		NA	NA		0.16	0.23	0.02	0.41			NA	NA		NA	NA		NA	NA		NA	NA	NA	NA	NA	NA	
G2	25/4/2017	Mid-Ebb	Rainy	Moderate	12:18	12	M	6	3	9			NA	NA		NA	NA		0.10	0.22	0.02	0.34			NA	NA		NA	NA		NA	NA		NA	NA	NA	NA	NA	NA	NA
G2	25/4/2017	Mid-Ebb	Rainy	Moderate	12:18	12	B	11	1	11	11	11	NA	NA	NA	NA	NA	NA	0.15	0.22	0.02	0.39	0.40	0.40	NA	NA	NA	NA	NA	NA	NA	NA	NA							
G2	25/4/2017	Mid-Ebb	Rainy	Moderate	12:18	12	B	11	2	10			NA	NA		NA	NA		0.15	0.22	0.02	0.39			NA	NA		NA	NA		NA	NA		NA	NA	NA	NA	NA	NA	NA
G2	25/4/2017	Mid-Ebb	Rainy	Moderate	12:18	12	B	11	3	11			NA	NA		NA	NA		0.16	0.23	0.02	0.41			NA	NA		NA	NA		NA	NA		NA	NA	NA	NA	NA	NA	NA
SR2	25/4/2017	Mid-Ebb	Rainy	Moderate	12:35	9	S	1	1	13	14	15	0.12	0.12	0.12	0.003	0.003	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA							
SR2	25/4/2017	Mid-Ebb	Rainy	Moderate	12:35	9	S	1	2	14			0.12	0.12		0.003	0.003		NA	NA	NA	NA			NA	NA		NA	NA		NA	NA		NA	NA	NA	NA	NA	NA	
SR2	25/4/2017	Mid-Ebb	Rainy	Moderate	12:35	9	S	1	3	15			0.12	0.12		0.003	0.003		NA	NA	NA	NA			NA	NA		NA	NA		NA	NA		NA	NA	NA	NA	NA	NA	NA
SR2	25/4/2017	Mid-Ebb	Rainy	Moderate	12:35	9	M	4.5	1	15	15	15	0.12	0.12	0.12	0.003	0.003	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA							
SR2	25/4/2017	Mid-Ebb	Rainy	Moderate	12:35	9	M	4.5	2	14			0.12	0.12		0.003	0.003		NA	NA	NA	NA			NA	NA		NA	NA		NA	NA		NA	NA	NA	NA	NA	NA	
SR2	25/4/2017	Mid-Ebb	Rainy	Moderate	12:35	9	M	4.5	3	16			0.12	0.12		0.003	0.003		NA	NA	NA	NA			NA	NA		NA	NA		NA	NA		NA	NA	NA	NA	NA	NA	NA
SR2	25/4/2017	Mid-Ebb	Rainy	Moderate	12:35	9	B	8	1	15	16	16	0.12	0.12	0.12	0.003	0.003	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA							
SR2	25/4/2017	Mid-Ebb	Rainy	Moderate	12:35	9	B	8	2	17			0.12	0.12		0.003	0.003		NA	NA	NA	NA			NA	NA		NA	NA		NA	NA		NA	NA	NA	NA	NA	NA	
SR2	25/4/2017	Mid-Ebb	Rainy	Moderate	12:35	9	B	8	3	17			0.12	0.12		0.003	0.003		NA	NA	NA	NA			NA	NA		NA	NA		NA	NA		NA	NA	NA	NA	NA	NA	NA
SR3	25/4/2017	Mid-Ebb	Rainy	Moderate	12:04	8	S	1	1	12	13	14	0.15	0.16	0.15	0.004	0.004	0.004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA							
SR3	25/4/2017	Mid-Ebb	Rainy	Moderate	12:04	8	S	1	2	13			0.16	0.16		0.004	0.004		NA	NA	NA	NA			NA	NA		NA	NA		NA	NA		NA	NA	NA	NA	NA	NA	
SR3	25/4/2017	Mid-Ebb	Rainy	Moderate	12:04	8	S	1	3	13			0.16	0.16		0.004	0.004		NA	NA	NA	NA			NA	NA		NA	NA		NA	NA		NA	NA	NA	NA	NA	NA	NA
SR3	25/4/2017	Mid-Ebb	Rainy	Moderate	12:04	8	M	4	1	15	16	14	0.17	0.16	0.15	0.004	0.004	0.004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA							
SR3	25/4/2017	Mid-Ebb	Rainy	Moderate	12:04	8	M	4	2	16			0.15	0.16		0.004	0.004		NA	NA	NA	NA			NA	NA		NA	NA		NA	NA		NA	NA	NA	NA	NA	NA	
SR3	25/4/2017	Mid-Ebb	Rainy	Moderate	12:04	8	M	4	3	16			0.15	0.16		0.004	0.004		NA	NA	NA	NA			NA	NA		NA	NA		NA	NA		NA	NA	NA	NA	NA	NA	NA
SR3	25/4/2017	Mid-Ebb	Rainy	Moderate	12:04	8	B	7	1																															

Impact Monitoring Data

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	Laboratory Analysis																									
										Total Suspended Solids (mg/L)			Ammonia Nitrogen (mg/L-N)			UIA (mg/L-N)			TIN-Ammonia (mg/L-N)	TIN-Nitrate (mg/L-N)	TIN-Nitrite (mg/L-N)	Total Inorganic Nitrogen (mg/L-N)			E.coli (cfu/100mL)			Synthetic Detergent (mg/L)			BOD <sub>5</sub> (mg/L)				
										Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Value	Value	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.		
SR4	25/4/2017	Mid-Ebb	Rainy	Moderate	11:50	4	S	1	1	11	11	10	0.16	0.13	0.13	0.004	0.003	0.003	NA	NA	NA	NA	NA	16	9	12	NA	NA	NA	2	2	1			
SR4	25/4/2017	Mid-Ebb	Rainy	Moderate	11:50	4	S	1	2	10			0.10			0.003			NA	NA	NA	NA	NA	NA	9			NA	NA	NA	1				
SR4	25/4/2017	Mid-Ebb	Rainy	Moderate	11:50	4	S	1	3								NA		NA	NA	NA	NA	NA	NA				NA	NA	NA					
SR4	25/4/2017	Mid-Ebb	Rainy	Moderate		4	M		1		NA	10		NA	0.13		NA	0.003	NA	NA	NA	NA	NA			NA	104	NA	NA	NA	NA				
SR4	25/4/2017	Mid-Ebb	Rainy	Moderate		4	M		2								NA		NA	NA	NA	NA	NA	NA	NA				NA	NA	NA	NA	NA		
SR4	25/4/2017	Mid-Ebb	Rainy	Moderate		4	M		3								NA		NA	NA	NA	NA	NA	NA	NA				NA	NA	NA	NA	NA		
SR4	25/4/2017	Mid-Ebb	Rainy	Moderate	11:50	4	B	3	1	9	10	10	0.11	0.14	0.14	0.003	0.003	0.003	NA	NA	NA	NA	NA	960	860	909	NA	NA	NA	1	1	1			
SR4	25/4/2017	Mid-Ebb	Rainy	Moderate	11:50	4	B	3	2	10			0.16			0.004			NA	NA	NA	NA	NA	NA	NA				NA	NA	NA		1		
SR4	25/4/2017	Mid-Ebb	Rainy	Moderate	11:50	4	B	3	3								NA		NA	NA	NA	NA	NA	NA	NA				NA	NA	NA		1		
SR5	25/4/2017	Mid-Ebb	Rainy	Moderate	12:51	11	S	1	1	13	14	14	NA	NA	NA	NA	NA	NA	0.13	0.37	0.03	0.53	0.53	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SR5	25/4/2017	Mid-Ebb	Rainy	Moderate	12:51	11	S	1	2	14			NA	NA		NA	NA		NA	NA	NA	0.14	0.36	0.04	0.54	0.54	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR5	25/4/2017	Mid-Ebb	Rainy	Moderate	12:51	11	S	1	3								NA		NA	NA	NA	0.12	0.36	0.03	0.51	0.51	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR5	25/4/2017	Mid-Ebb	Rainy	Moderate	12:51	11	M	5.5	1	12	13	14	NA	NA	NA	NA	NA	NA	0.11	0.36	0.03	0.50	0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR5	25/4/2017	Mid-Ebb	Rainy	Moderate	12:51	11	M	5.5	2	14			NA	NA		NA	NA		NA	NA	NA	0.13	0.37	0.03	0.53	0.53	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR5	25/4/2017	Mid-Ebb	Rainy	Moderate	12:51	11	M	5.5	3								NA		NA	NA	NA	0.13	0.37	0.03	0.53	0.53	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR5	25/4/2017	Mid-Ebb	Rainy	Moderate	12:51	11	B	10	1	13	14	14	NA	NA	NA	NA	NA	NA	0.13	0.37	0.03	0.53	0.53	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR5	25/4/2017	Mid-Ebb	Rainy	Moderate	12:51	11	B	10	2	15			NA	NA		NA	NA		NA	NA	NA	0.14	0.36	0.03	0.53	0.53	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR5	25/4/2017	Mid-Ebb	Rainy	Moderate	12:51	11	B	10	3								NA		NA	NA	NA	0.12	0.37	0.03	0.52	0.52	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR12	25/4/2017	Mid-Ebb	Rainy	Moderate	11:35	15	S	1	1	3	4	5	0.30	0.30	0.30	0.008	0.008	0.008	NA	NA	NA	NA	NA	680	410	528	NA	NA	NA	1	2	1			
SR12	25/4/2017	Mid-Ebb	Rainy	Moderate	11:35	15	S	1	2	5			0.29			0.007			NA	NA	NA	NA	NA	NA	NA				NA	NA	NA		2		
SR12	25/4/2017	Mid-Ebb	Rainy	Moderate	11:35	15	S	1	3								NA		NA	NA	NA	NA	NA	NA	NA				NA	NA	NA				
SR12	25/4/2017	Mid-Ebb	Rainy	Moderate	11:35	15	M	7.5	1	5	6	5	0.27	0.26	0.26	0.006	0.006	0.006	NA	NA	NA	NA	NA	520	630	572	263	NA	NA	NA	<1	1	1		
SR12	25/4/2017	Mid-Ebb	Rainy	Moderate	11:35	15	M	7.5	2	6			0.24			0.006			NA	NA	NA	NA	NA	NA	NA				NA	NA	NA	<1			
SR12	25/4/2017	Mid-Ebb	Rainy	Moderate	11:35	15	M	7.5	3								NA		NA	NA	NA	NA	NA	NA	NA				NA	NA	NA	<1			
SR12	25/4/2017	Mid-Ebb	Rainy	Moderate	11:35	15	B	14	1	5	5	5	0.18	0.17	0.17	0.004	0.004	0.004	NA	NA	NA	NA	NA	56	64	60	NA	NA	NA	<1	1	1			
SR12	25/4/2017	Mid-Ebb	Rainy	Moderate	11:35	15	B	14	2	5			0.16			0.004			NA	NA	NA	NA	NA	NA	NA				NA	NA	NA		<1		
SR12	25/4/2017	Mid-Ebb	Rainy	Moderate	11:35	15	B	14	3								NA		NA	NA	NA	NA	NA	NA	NA				NA	NA	NA		<1		
SR13	25/4/2017	Mid-Ebb	Rainy	Moderate	11:16	14	S	1	1	10	9	9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SR13	25/4/2017	Mid-Ebb	Rainy	Moderate	11:16	14	S	1	2	8			NA	NA		NA	NA		NA	NA	NA	NA	NA	NA	NA				NA	NA	NA	NA	NA	NA	
SR13	25/4/2017	Mid-Ebb	Rainy	Moderate	11:16	14	S	1	3								NA		NA	NA	NA	NA	NA	NA	NA				NA	NA	NA	NA	NA	NA	
SR13	25/4/2017	Mid-Ebb	Rainy	Moderate	11:16	14	M	7	1	9	10	9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SR13	25/4/2017	Mid-Ebb	Rainy	Moderate	11:16	14	M	7	2	10			NA	NA		NA	NA		NA	NA	NA	NA	NA	NA	NA				NA	NA	NA	NA	NA	NA	
SR13	25/4/2017	Mid-Ebb	Rainy	Moderate	11:16	14	M	7	3								NA		NA	NA	NA	NA	NA	NA	NA				NA	NA	NA	NA	NA	NA	
SR13	25/4/2017	Mid-Ebb	Rainy	Moderate	11:16	14	B	13	1	8	8	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SR13	25/4/2017	Mid-Ebb	Rainy	Moderate	11:16	14	B	13	2	8			NA	NA		NA	NA		NA	NA	NA	NA	NA	NA	NA				NA	NA	NA	NA	NA	NA	
SR13	25/4/2017	Mid-Ebb	Rainy	Moderate	11:16	14	B	13	3								NA		NA	NA	NA	NA	NA	NA	NA				NA	NA	NA	NA	NA	NA	

Note: 1. Depth Ave.: (Except E.coli) "Depth-averaged" is calculated by taking the arithmetic means for the reading of the surface, middle and bottom depths  
 2. ND: Not Detected  
 3. Depth Averaged of E.coli is calculated by taking geometric mean of the readings of the surface, middle and bottom, all ND sample results (<1) for E.coli is regarded as 1 in calculating the geometric mean.





Impact Monitoring Data

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	Laboratory Analysis																																		
										Total Suspended Solids (mg/L)			Ammonia Nitrogen (mg/L-N)			UIA (mg/L-N)			TIN-Ammonia (mg/L-N)	TIN-Nitrate (mg/L-N)	TIN-Nitrite (mg/L-N)	Total Inorganic Nitrogen (mg/L-N)			E.coli (cfu/100mL)			Synthetic Detergent (mg/L)			BOD <sub>5</sub> (mg/L)													
										Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Value	Value	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.											
C1A	27/4/2017	Mid-Flood	Rainy	Smooth	9:40	28	S	1	1	8	9	10	10	0.15	0.15	0.15	0.004	0.004	0.004	0.15	0.38	0.01	0.54	0.54	720	768	93	NA	NA	NA	<1	1	1											
C1A	27/4/2017	Mid-Flood	Rainy	Smooth	9:40	28	S	1	2	10				0.15						0.004	0.004	0.15	0.39					0.01	0.55	16	NA			NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	
C1A	27/4/2017	Mid-Flood	Rainy	Smooth	9:40	28	M	14	1	9				0.13						0.14	0.15	0.38	0.02					0.55	21	18	NA			NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	
C1A	27/4/2017	Mid-Flood	Rainy	Smooth	9:40	28	M	14	2	11	10	11	11	0.15	0.15	0.15	0.004	0.004	0.004	0.15	0.38	0.02	0.55	0.55	54	58	63	NA	NA	NA	<1	1	2											
C1A	27/4/2017	Mid-Flood	Rainy	Smooth	9:40	28	B	27	1	10				0.15						0.004	0.004	0.15	0.39					0.02	0.56	62	NA			NA	NA	NA	NA	NA	NA	NA	NA	<1		
C1A	27/4/2017	Mid-Flood	Rainy	Smooth	9:40	28	B	27	2	11				0.14						0.37	0.02	0.53	0.73					46	49	NA	NA			NA	NA	NA	NA	NA	NA	NA	NA	2		
C2A	27/4/2017	Mid-Flood	Cloudy	Moderate	6:56	13	S	1	1	12	11	11	11	0.42	0.42	0.42	0.007	0.007	0.007	0.42	0.29	0.02	0.73	0.73	46	49	63	NA	NA	NA	2	2	2											
C2A	27/4/2017	Mid-Flood	Cloudy	Moderate	6:56	13	S	1	2	10				0.43						0.43	0.41	0.29	0.02					0.74	52	130	NA			NA	NA	NA	NA	NA	NA	NA	2			
C2A	27/4/2017	Mid-Flood	Cloudy	Moderate	6:56	13	M	6.5	1	12				0.43						0.43	0.41	0.29	0.02					0.74	120	140	NA			NA	NA	NA	NA	NA	NA	NA	2			
C2A	27/4/2017	Mid-Flood	Cloudy	Moderate	6:56	13	M	6.5	2	10	10	10	10	0.35	0.38	0.38	0.006	0.006	0.006	0.35	0.30	0.01	0.66	0.70	37	39	63	NA	NA	NA	2	2	2											
C2A	27/4/2017	Mid-Flood	Cloudy	Moderate	6:56	13	B	12	1	10				0.41						0.38	0.41	0.28	0.02					0.71	42	NA	NA			NA	NA	NA	NA	NA	NA	2				
C2A	27/4/2017	Mid-Flood	Cloudy	Moderate	6:56	13	B	12	2	9				0.42						0.30	0.01	0.73	0.70					42	39	NA	NA			NA	NA	NA	NA	NA	NA	2				
G2	27/4/2017	Mid-Flood	Rainy	Smooth	8:47	12	S	1	1	6	7	7	7	NA	NA	NA	NA	NA	NA	0.14	0.43	0.02	0.59	0.59	NA	NA	NA	NA	NA	NA	NA	NA	NA											
G2	27/4/2017	Mid-Flood	Rainy	Smooth	8:47	12	S	1	2	7				NA						NA	NA	NA	NA					NA	NA	NA	0.14			0.42	0.02	0.58	0.59	NA	NA	NA	NA	NA	NA	NA
G2	27/4/2017	Mid-Flood	Rainy	Smooth	8:47	12	S	1	3					NA						NA	NA	NA	NA					NA	NA	NA	0.15			0.43	0.02	0.60	0.59	NA	NA	NA	NA	NA	NA	NA
G2	27/4/2017	Mid-Flood	Rainy	Smooth	8:47	12	M	6	1	7	6	7	7	NA	NA	NA	NA	NA	NA	0.14	0.43	0.02	0.59	0.59	NA	NA	NA	NA	NA	NA	NA	NA	NA											
G2	27/4/2017	Mid-Flood	Rainy	Smooth	8:47	12	M	6	2	5				NA						NA	NA	NA	NA					NA	NA	NA	0.14			0.43	0.02	0.59	0.59	NA	NA	NA	NA	NA	NA	NA
G2	27/4/2017	Mid-Flood	Rainy	Smooth	8:47	12	M	6	3					NA						NA	NA	NA	NA					NA	NA	NA	0.13			0.43	0.02	0.58	0.59	NA	NA	NA	NA	NA	NA	NA
G2	27/4/2017	Mid-Flood	Rainy	Smooth	8:47	12	B	11	1	8	8	8	8	NA	NA	NA	NA	NA	NA	0.14	0.44	0.01	0.59	0.60	NA	NA	NA	NA	NA	NA	NA	NA	NA											
G2	27/4/2017	Mid-Flood	Rainy	Smooth	8:47	12	B	11	2	7				NA						NA	NA	NA	NA					NA	NA	NA	0.14			0.43	0.02	0.59	0.60	NA	NA	NA	NA	NA	NA	NA
G2	27/4/2017	Mid-Flood	Rainy	Smooth	8:47	12	B	11	3					NA						NA	NA	NA	NA					NA	NA	NA	0.16			0.43	0.02	0.61	0.60	NA	NA	NA	NA	NA	NA	NA
SR2	27/4/2017	Mid-Flood	Rainy	Smooth	8:57	9	S	1	1	7	7	10	10	0.14	0.15	0.15	0.003	0.004	0.004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA											
SR2	27/4/2017	Mid-Flood	Rainy	Smooth	8:57	9	S	1	2	6				0.15						0.14	0.15	0.003	0.003					0.004	0.004	NA	NA			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR2	27/4/2017	Mid-Flood	Rainy	Smooth	8:57	9	S	1	3					0.14						0.14	0.14	0.003	0.003					0.003	0.004	NA	NA			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR2	27/4/2017	Mid-Flood	Rainy	Smooth	8:57	9	M	4.5	1	9	15	15	15	0.14	0.15	0.15	0.003	0.004	0.004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA											
SR2	27/4/2017	Mid-Flood	Rainy	Smooth	8:57	9	M	4.5	2	11				0.16						0.15	0.15	0.003	0.004					0.004	0.004	NA	NA			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR2	27/4/2017	Mid-Flood	Rainy	Smooth	8:57	9	B	8	1	14				NA						NA	NA	NA	NA					NA	NA	NA	NA			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR2	27/4/2017	Mid-Flood	Rainy	Smooth	8:57	9	B	8	2	15	6	6	6	0.18	0.17	0.17	0.004	0.004	0.004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA											
SR2	27/4/2017	Mid-Flood	Rainy	Smooth	8:57	9	B	8	3					0.16						0.17	0.17	0.004	0.004					0.004	0.004	NA	NA			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR2	27/4/2017	Mid-Flood	Rainy	Smooth	8:57	9	B	8	3					0.16						0.17	0.17	0.004	0.004					0.004	0.004	NA	NA			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR3	27/4/2017	Mid-Flood	Rainy	Smooth	8:32	8	S	1	1	6	6	6	6	0.18	0.17	0.17	0.004	0.004	0.004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA											
SR3	27/4/2017	Mid-Flood	Rainy	Smooth	8:32	8	S	1	2	5				0.16						0.17	0.17	0.004	0.004					0.004	0.004	NA	NA			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR3	27/4/2017	Mid-Flood	Rainy	Smooth	8:32	8	S	1	3					0.16						0.17	0.17	0.004	0.004					0.004	0.004	NA	NA			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR3	27/4/2017	Mid-Flood	Rainy	Smooth	8:32	8	M	4	1	6	6	6	6	0.16	0.17	0.17	0.004	0.004	0.004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA											
SR3	27/4/2017	Mid-Flood	Rainy	Smooth	8:32	8	M	4	2	6				0.17						0.17	0.17	0.004	0.004					0.004	0.004	NA	NA			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR3	27/4/2017	Mid-Flood	Rainy	Smooth	8:32	8	M	4	3					0.17						0.18	0.18	0.004	0.004					0.004	0.004	NA	NA			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR3	27/4/2017	Mid-Flood	Rainy	Smooth	8:32	8	B	7	1	6	7	7	7	0.17	0.18	0.18	0.004	0.004	0.004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA											
SR3	27/4/2017	Mid-Flood	Rainy	Smooth	8:32	8	B	7	2	8				0.18						0.18	0.18	0.004	0.004					0.004	0.004	NA	NA			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR3	27/4/2017	Mid-Flood	Rainy	Smooth	8:32	8	B	7	2	8	7	7	7	0.17	0.18	0.18	0.004	0.004	0.004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA											
SR3	27/4/2017	Mid-Flood	Rainy	Smooth	8:32	8	B	7	3					NA						NA	NA	NA	NA					NA	NA	NA	NA			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Impact Monitoring Data

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	Laboratory Analysis																										
										Total Suspended Solids (mg/L)			Ammonia Nitrogen (mg/L-N)			UIA (mg/L-N)			TIN-Ammonia (mg/L-N)	TIN-Nitrate (mg/L-N)	TIN-Nitrite (mg/L-N)	Total Inorganic Nitrogen (mg/L-N)			E.coli (cfu/100mL)			Synthetic Detergent (mg/L)			BOD <sub>5</sub> (mg/L)					
										Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Value	Value	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.			
SR4	27/4/2017	Mid-Flood	Rainy	Smooth	8:07	4	S	1	1	8	9	0.17	0.16	0.16	0.004	0.004	0.004	NA	NA	NA	NA	NA	99	109	312	NA	NA	NA	2	2	2					
SR4	27/4/2017	Mid-Flood	Rainy	Smooth	8:07	4	S	1	2	9		0.15				0.004				NA	NA	NA	NA	120			NA	NA								
SR4	27/4/2017	Mid-Flood	Rainy	Smooth	8:07	4	S	1	3											NA	NA	NA	NA				NA	NA								
SR4	27/4/2017	Mid-Flood	Rainy	Smooth	8:07	4	M		1		NA							NA	NA	NA	NA				NA	NA	NA									
SR4	27/4/2017	Mid-Flood	Rainy	Smooth	8:07	4	M		2										NA	NA	NA	NA				NA	NA	NA								
SR4	27/4/2017	Mid-Flood	Rainy	Smooth	8:07	4	M		3										NA	NA	NA	NA				NA	NA	NA								
SR4	27/4/2017	Mid-Flood	Rainy	Smooth	8:07	4	B	3	1	9	10	0.15	0.16	0.16	0.003	0.003	0.003	NA	NA	NA	NA	NA	940	894		NA	NA		1	2	2					
SR4	27/4/2017	Mid-Flood	Rainy	Smooth	8:07	4	B	3	2	10		0.16				0.004				NA	NA	NA	NA	850			NA	NA		2						
SR4	27/4/2017	Mid-Flood	Rainy	Smooth	8:07	4	B	3	3											NA	NA	NA	NA				NA	NA								
SR5	27/4/2017	Mid-Flood	Rainy	Smooth	9:22	11	S	1	1	11	11	NA	NA	NA	NA	NA	NA	0.14	0.36	<0.01	0.50	0.50	NA	NA		NA	NA		NA	NA	NA					
SR5	27/4/2017	Mid-Flood	Rainy	Smooth	9:22	11	S	1	2	10		NA				NA		NA		0.14	0.35	0.02	0.51	0.55	NA	NA		NA	NA			NA	NA			
SR5	27/4/2017	Mid-Flood	Rainy	Smooth	9:22	11	S	1	3											0.14	0.35	0.01	0.50	0.55	NA	NA		NA	NA			NA	NA			
SR5	27/4/2017	Mid-Flood	Rainy	Smooth	9:22	11	M	5.5	1	14	13	NA	NA	NA	NA	NA	NA	0.14	0.36	0.01	0.51	0.55	0.52	NA	NA		NA	NA		NA	NA	NA				
SR5	27/4/2017	Mid-Flood	Rainy	Smooth	9:22	11	M	5.5	2	12		NA				NA		NA		0.14	0.34	0.02	0.50	0.55	0.52	NA	NA		NA	NA			NA	NA		
SR5	27/4/2017	Mid-Flood	Rainy	Smooth	9:22	11	M	5.5	3											0.16	0.47	0.02	0.65	0.55	0.52	NA	NA		NA	NA			NA	NA		
SR5	27/4/2017	Mid-Flood	Rainy	Smooth	9:22	11	B	10	1	11	10	NA	NA	NA	NA	NA	NA	0.14	0.35	0.01	0.50	0.50	NA	NA		NA	NA		NA	NA	NA					
SR5	27/4/2017	Mid-Flood	Rainy	Smooth	9:22	11	B	10	2	9		NA				NA		NA		0.14	0.35	0.01	0.50	0.50	NA	NA		NA	NA			NA	NA			
SR5	27/4/2017	Mid-Flood	Rainy	Smooth	9:22	11	B	10	3											0.14	0.35	0.01	0.50	0.50	NA	NA		NA	NA			NA	NA			
SR12	27/4/2017	Mid-Flood	Cloudy	Moderate	7:42	15	S	1	1	8	9	0.24	0.24	0.24	0.005	0.005	0.005	NA	NA	NA	NA	NA	460	489	731	NA	NA	NA	2	2	1					
SR12	27/4/2017	Mid-Flood	Cloudy	Moderate	7:42	15	S	1	2	10		0.23				0.005				NA	NA	NA	NA	NA	520			NA	NA			1				
SR12	27/4/2017	Mid-Flood	Cloudy	Moderate	7:42	15	S	1	3											NA	NA	NA	NA	NA				NA	NA							
SR12	27/4/2017	Mid-Flood	Cloudy	Moderate	7:42	15	M	7.5	1	8	9	0.19	0.20	0.20	0.004	0.004	0.004	NA	NA	NA	NA	NA	970	913		NA	NA	NA	1	1	1					
SR12	27/4/2017	Mid-Flood	Cloudy	Moderate	7:42	15	M	7.5	2	10		0.20				0.004				NA	NA	NA	NA	NA	860			NA	NA			<1				
SR12	27/4/2017	Mid-Flood	Cloudy	Moderate	7:42	15	M	7.5	3											NA	NA	NA	NA	NA				NA	NA							
SR12	27/4/2017	Mid-Flood	Cloudy	Moderate	7:42	15	B	14	1	6	7	0.22	0.20	0.20	0.005	0.004	0.004	NA	NA	NA	NA	NA	840	874		NA	NA		1	1	1					
SR12	27/4/2017	Mid-Flood	Cloudy	Moderate	7:42	15	B	14	2	7		0.18				0.004				NA	NA	NA	NA	NA	910			NA	NA			1				
SR12	27/4/2017	Mid-Flood	Cloudy	Moderate	7:42	15	B	14	3											NA	NA	NA	NA	NA				NA	NA							
SR13	27/4/2017	Mid-Flood	Cloudy	Moderate	7:22	14	S	1	1	9	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA	NA		NA	NA	NA					
SR13	27/4/2017	Mid-Flood	Cloudy	Moderate	7:22	14	S	1	2	7		NA				NA		NA		NA	NA	NA	NA	NA	NA	NA		NA	NA			NA	NA			
SR13	27/4/2017	Mid-Flood	Cloudy	Moderate	7:22	14	S	1	3											NA	NA	NA	NA	NA				NA	NA							
SR13	27/4/2017	Mid-Flood	Cloudy	Moderate	7:22	14	M	7	1	6	7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA	NA		NA	NA	NA					
SR13	27/4/2017	Mid-Flood	Cloudy	Moderate	7:22	14	M	7	2	7		NA				NA		NA		NA	NA	NA	NA	NA	NA	NA		NA	NA			NA	NA			
SR13	27/4/2017	Mid-Flood	Cloudy	Moderate	7:22	14	M	7	3											NA	NA	NA	NA	NA				NA	NA							
SR13	27/4/2017	Mid-Flood	Cloudy	Moderate	7:22	14	B	13	1	6	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA	NA		NA	NA	NA					
SR13	27/4/2017	Mid-Flood	Cloudy	Moderate	7:22	14	B	13	2	4		NA				NA		NA		NA	NA	NA	NA	NA	NA	NA		NA	NA			NA	NA			
SR13	27/4/2017	Mid-Flood	Cloudy	Moderate	7:22	14	B	13	3											NA	NA	NA	NA	NA				NA	NA							

Note: 1. Depth Ave.: (Except E.coli) "Depth-averaged" is calculated by taking the arithmetic means for the reading of the surface, middle and bottom depths  
 2. ND: Not Detected  
 3. Depth Averaged of E.coli is calculated by taking geometric mean of the readings of the surface, middle and bottom, all ND sample results (<1) for E.coli is regarded as 1 in calculating the geometric mean.







Impact Monitoring Data

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	Laboratory Analysis																							
										Total Suspended Solids (mg/L)			Ammonia Nitrogen (mg/L-N)			UIA (mg/L-N)			TIN-Ammonia (mg/L-N)	TIN-Nitrate (mg/L-N)	TIN-Nitrite (mg/L-N)	Total Inorganic Nitrogen (mg/L-N)			E.coli (cfu/100mL)			Synthetic Detergent (mg/L)			BOD <sub>5</sub> (mg/L)		
										Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Value	Value	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.
C1A	27/4/2017	Mid-Ebb	Cloudy	Smooth	9:53	28	S	1	1	8	8	11	0.14	0.15	0.15	0.003	0.004	0.004	0.14	0.38	0.01	0.53	0.54	620	668	NA	NA	NA	<1	1			
C1A	27/4/2017	Mid-Ebb	Cloudy	Smooth	9:53	28	S	1	2	8			0.16			0.004			0.16	0.39	0.01	0.56		720		NA			NA			NA	1
C1A	27/4/2017	Mid-Ebb	Cloudy	Smooth	9:53	28	S	1	3		14	11	0.15	0.15	0.15	0.004	0.004	0.004	0.14	0.38	0.02	0.54	0.55	36	38	NA	NA	NA	2	2	2		
C1A	27/4/2017	Mid-Ebb	Cloudy	Smooth	9:53	28	M	14	1	14			0.15			0.004			0.15	0.39	0.01	0.55		41		NA			NA			NA	1
C1A	27/4/2017	Mid-Ebb	Cloudy	Smooth	9:53	28	M	14	3		12	11	0.14	0.14	0.14	0.003	0.003	0.003	0.14	0.37	0.02	0.53	0.54	68	69	NA	NA	NA	2	2	2		
C1A	27/4/2017	Mid-Ebb	Cloudy	Smooth	9:53	28	B	27	2	11			0.14			0.003			0.14	0.38	0.02	0.54		71		NA			NA			NA	2
C2A	27/4/2017	Mid-Ebb	Rainy	Smooth	12:43	13	S	1	1	11	11	9	0.44	0.45	0.44	0.007	0.007	0.007	0.44	0.30	0.02	0.76	0.75	24	27	NA	NA	NA	2	2	2		
C2A	27/4/2017	Mid-Ebb	Rainy	Smooth	12:43	13	S	1	2	10			0.45			0.007			0.45	0.30	0.02	0.77		31		NA			NA			NA	2
C2A	27/4/2017	Mid-Ebb	Rainy	Smooth	12:43	13	S	1	3		9	9	0.44	0.44	0.44	0.007	0.007	0.007	0.44	0.30	0.01	0.75	0.74	86	88	NA	NA	NA	2	2	2		
C2A	27/4/2017	Mid-Ebb	Rainy	Smooth	12:43	13	M	6.5	2	8			0.43			0.007			0.43	0.31	<0.01	0.74		91		NA			NA			NA	2
C2A	27/4/2017	Mid-Ebb	Rainy	Smooth	12:43	13	M	6.5	3		7	9	0.42	0.44	0.44	0.007	0.007	0.007	0.44	0.29	0.01	0.74	0.75	75	78	NA	NA	NA	3	3	3		
C2A	27/4/2017	Mid-Ebb	Rainy	Smooth	12:43	13	B	12	1	7			0.45			0.007			0.45	0.31	0.01	0.77		81		NA			NA			NA	3
C2A	27/4/2017	Mid-Ebb	Rainy	Smooth	12:43	13	B	12	3		9	8	NA	NA	NA	NA	NA	NA	0.16	0.43	0.02	0.61	0.60	NA	NA	NA	NA	NA	NA	NA	NA	NA	
G2	27/4/2017	Mid-Ebb	Rainy	Smooth	10:53	12	S	1	2	10			NA			NA			NA	NA	NA	NA		NA			0.14			0.43			0.02
G2	27/4/2017	Mid-Ebb	Rainy	Smooth	10:53	12	S	1	3		7	8	NA	NA	NA	NA	NA	NA	0.15	0.43	0.02	0.60	0.60	NA	NA	NA	NA	NA	NA	NA	NA	NA	
G2	27/4/2017	Mid-Ebb	Rainy	Smooth	10:53	12	M	6	2	6			NA			NA			NA	NA	NA	NA		NA			0.14			0.44			0.02
G2	27/4/2017	Mid-Ebb	Rainy	Smooth	10:53	12	M	6	3		8	8	NA	NA	NA	NA	NA	NA	0.14	0.43	0.02	0.59	0.58	NA	NA	NA	NA	NA	NA	NA	NA	NA	
G2	27/4/2017	Mid-Ebb	Rainy	Smooth	10:53	12	B	11	1	9			NA			NA			NA	NA	NA	NA		NA			0.14			0.43			0.02
G2	27/4/2017	Mid-Ebb	Rainy	Smooth	10:53	12	B	11	2	7	5	5	0.15	0.15	0.15	0.004	0.004	0.004	0.14	0.42	0.02	0.58	0.58	NA	NA	NA	NA	NA	NA	NA	NA	NA	
G2	27/4/2017	Mid-Ebb	Rainy	Smooth	10:53	12	B	11	3				0.14			0.004			0.14	0.42	0.02	0.58		NA			NA			NA			NA
SR2	27/4/2017	Mid-Ebb	Cloudy	Smooth	10:43	9	S	1	1	6	5	5	0.15	0.15	0.15	0.004	0.004	0.004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR2	27/4/2017	Mid-Ebb	Cloudy	Smooth	10:43	9	S	1	2	4			0.15			0.004			NA	NA	NA	NA		NA			NA			NA			NA
SR2	27/4/2017	Mid-Ebb	Cloudy	Smooth	10:43	9	S	1	3		5	5	0.14	0.15	0.15	0.003	0.004	0.004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR2	27/4/2017	Mid-Ebb	Cloudy	Smooth	10:43	9	M	4.5	1	5			0.16			0.004			NA	NA	NA	NA		NA			NA			NA			NA
SR2	27/4/2017	Mid-Ebb	Cloudy	Smooth	10:43	9	M	4.5	2	5	6	5	0.16	0.15	0.15	0.004	0.004	0.004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR2	27/4/2017	Mid-Ebb	Cloudy	Smooth	10:43	9	B	8	1	5			0.14			0.003			NA	NA	NA	NA		NA			NA			NA			NA
SR2	27/4/2017	Mid-Ebb	Cloudy	Smooth	10:43	9	B	8	3		8	6	0.18	0.19	0.18	0.004	0.005	0.005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR2	27/4/2017	Mid-Ebb	Cloudy	Smooth	10:43	9	B	8	2	7			0.20			0.005			NA	NA	NA	NA		NA			NA			NA			NA
SR3	27/4/2017	Mid-Ebb	Rainy	Smooth	11:08	8	S	1	1	9	5	6	0.17	0.17	0.17	0.004	0.004	0.004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR3	27/4/2017	Mid-Ebb	Rainy	Smooth	11:08	8	S	1	2	7			0.16			0.004			NA	NA	NA	NA		NA			NA			NA			NA
SR3	27/4/2017	Mid-Ebb	Rainy	Smooth	11:08	8	M	4	3		5	6	0.17	0.17	0.17	0.004	0.004	0.004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR3	27/4/2017	Mid-Ebb	Rainy	Smooth	11:08	8	M	4	2	5			0.17			0.004			NA	NA	NA	NA		NA			NA			NA			NA
SR3	27/4/2017	Mid-Ebb	Rainy	Smooth	11:08	8	B	7	1	6	5	6	0.17	0.17	0.17	0.004	0.004	0.004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR3	27/4/2017	Mid-Ebb	Rainy	Smooth	11:08	8	B	7	2	4			0.17			0.004			NA	NA	NA	NA		NA			NA			NA			NA
SR3	27/4/2017	Mid-Ebb	Rainy	Smooth	11:08	8	B	7	3		5	6	0.17	0.17	0.17	0.004	0.004	0.004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR3	27/4/2017	Mid-Ebb	Rainy	Smooth	11:08	8	B	7	2	4			0.17			0.004			NA	NA	NA	NA		NA			NA			NA			NA

Impact Monitoring Data

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	Laboratory Analysis																																					
										Total Suspended Solids (mg/L)			Ammonia Nitrogen (mg/L-N)			UIA (mg/L-N)			TIN-Ammonia (mg/L-N)	TIN-Nitrate (mg/L-N)	TIN-Nitrite (mg/L-N)	Total Inorganic Nitrogen (mg/L-N)			E.coli (cfu/100mL)			Synthetic Detergent (mg/L)			BOD <sub>5</sub> (mg/L)																
										Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Value	Value	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.														
SR4	27/4/2017	Mid-Ebb	Rainy	Smooth	11:33	4	S	1	1	7	7	0.19 0.16	0.18	0.004 0.003	0.004	0.004	NA	NA	NA	NA	NA	480 520	500	440	NA	NA	NA	1	2	2																	
SR4	27/4/2017	Mid-Ebb	Rainy	Smooth	11:33	4	S	1	2	6							NA	NA	NA	NA					NA	NA		NA			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA				
SR4	27/4/2017	Mid-Ebb	Rainy	Smooth	11:33	4	S	1	3								NA	NA	NA	NA					NA	NA		NA			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA				
SR4	27/4/2017	Mid-Ebb	Rainy	Smooth		4	M			1	NA	8	NA	0.18	0.004	0.004	NA	NA	NA	NA	NA	NA	NA	440	NA	NA	NA		NA	2																	
SR4	27/4/2017	Mid-Ebb	Rainy	Smooth		4	M			2							NA	NA	NA	NA					NA	NA		NA			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA				
SR4	27/4/2017	Mid-Ebb	Rainy	Smooth		4	M			3							0.18	0.18	0.004	0.004					NA	NA		NA			NA	NA	NA	NA	340	387	NA	NA	NA	4	3						
SR4	27/4/2017	Mid-Ebb	Rainy	Smooth	11:33	4	B	3	2	9	9	0.18	0.18	0.004	0.004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA																	
SR4	27/4/2017	Mid-Ebb	Rainy	Smooth	11:33	4	B	3	3							NA	NA	NA	NA												NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR5	27/4/2017	Mid-Ebb	Cloudy	Smooth	10:18	11	S	1	1	12						NA	NA	NA	NA												NA	0.15	0.34	0.02	0.51	0.51	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR5	27/4/2017	Mid-Ebb	Cloudy	Smooth	10:18	11	S	1	2	14	13	NA	NA	NA	NA	0.15	0.36	0.01	0.52	0.51	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA																	
SR5	27/4/2017	Mid-Ebb	Cloudy	Smooth	10:18	11	S	1	3							0.14	0.35	0.02	0.51												0.14	0.36	<0.01	0.50	0.51	0.51	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR5	27/4/2017	Mid-Ebb	Cloudy	Smooth	10:18	11	M	5.5	1	13						NA	NA	NA	NA												NA	0.15	0.35	0.02	0.52	0.51	0.51	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR5	27/4/2017	Mid-Ebb	Cloudy	Smooth	10:18	11	M	5.5	2	12	13	11	NA	NA	NA	0.15	0.35	0.02	0.52	0.51	0.51	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA																
SR5	27/4/2017	Mid-Ebb	Cloudy	Smooth	10:18	11	M	5.5	3							0.15	0.35	0.02	0.52													0.14	0.35	0.02	0.51	0.51	0.51	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR5	27/4/2017	Mid-Ebb	Cloudy	Smooth	10:18	11	B	10	1	7						NA	NA	NA	NA													NA	0.14	0.35	0.02	0.51	0.51	0.51	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR5	27/4/2017	Mid-Ebb	Cloudy	Smooth	10:18	11	B	10	2	9	8	NA	NA	NA	NA	0.14	0.35	0.02	0.51	0.51	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA																
SR5	27/4/2017	Mid-Ebb	Cloudy	Smooth	10:18	11	B	10	3							0.14	0.34	0.02	0.50													0.14	0.34	0.02	0.50	0.51	0.51	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR5	27/4/2017	Mid-Ebb	Cloudy	Smooth	10:18	11	B	10	3							NA	NA	NA	NA													NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR12	27/4/2017	Mid-Ebb	Rainy	Smooth	11:58	15	S	1	1	15	14	0.18 0.20	0.19	0.004 0.004	0.004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA																	
SR12	27/4/2017	Mid-Ebb	Rainy	Smooth	11:58	15	S	1	2	13						NA	NA	NA	NA												NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR12	27/4/2017	Mid-Ebb	Rainy	Smooth	11:58	15	S	1	3							0.20	0.20	0.004	0.004												NA	NA	NA	NA	NA	NA	NA	460	494	236	NA	NA	NA	2	2		
SR12	27/4/2017	Mid-Ebb	Rainy	Smooth	11:58	15	M	7.5	1	8	8	0.19	0.20	0.004	0.004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA																	
SR12	27/4/2017	Mid-Ebb	Rainy	Smooth	11:58	15	M	7.5	2	7						0.21	0.21	0.004	0.004												NA	NA	NA	NA	NA	NA	520	549	236	NA	NA	NA	2	2			
SR12	27/4/2017	Mid-Ebb	Rainy	Smooth	11:58	15	B	14	1	8						0.20	0.21	0.004	0.004												NA	NA	NA	NA	NA	NA	580	549	236	NA	NA	NA	2	2			
SR12	27/4/2017	Mid-Ebb	Rainy	Smooth	11:58	15	B	14	3		9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA																	
SR12	27/4/2017	Mid-Ebb	Rainy	Smooth	11:58	15	B	14	3							NA	NA	NA	NA												NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR12	27/4/2017	Mid-Ebb	Rainy	Smooth	11:58	15	S	1	1	6						NA	NA	NA	NA												NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR13	27/4/2017	Mid-Ebb	Rainy	Smooth	12:18	14	S	1	2	7	7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA																	
SR13	27/4/2017	Mid-Ebb	Rainy	Smooth	12:18	14	S	1	3							NA	NA	NA	NA												NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR13	27/4/2017	Mid-Ebb	Rainy	Smooth	12:18	14	S	1	3							NA	NA	NA	NA												NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR13	27/4/2017	Mid-Ebb	Rainy	Smooth	12:18	14	M	7	1	14	14	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA																	
SR13	27/4/2017	Mid-Ebb	Rainy	Smooth	12:18	14	M	7	2	14						NA	NA	NA	NA												NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR13	27/4/2017	Mid-Ebb	Rainy	Smooth	12:18	14	M	7	3							NA	NA	NA	NA												NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR13	27/4/2017	Mid-Ebb	Rainy	Smooth	12:18	14	B	13	1	9	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA																	
SR13	27/4/2017	Mid-Ebb	Rainy	Smooth	12:18	14	B	13	2	11						NA	NA	NA	NA												NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR13	27/4/2017	Mid-Ebb	Rainy	Smooth	12:18	14	B	13	3							NA	NA	NA	NA												NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Note: 1. Depth Ave.: (Except E.coli) "Depth-averaged" is calculated by taking the arithmetic means for the reading of the surface, middle and bottom depths  
 2. ND: Not Detected  
 3. Depth Averaged of E.coli is calculated by taking geometric mean of the readings of the surface, middle and bottom, all ND sample results (<1) for E.coli is regarded as 1 in calculating the geometric mean.





Impact Monitoring Data

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	Laboratory Analysis																																										
										Total Suspended Solids (mg/L)			Ammonia Nitrogen (mg/L-N)			UIA (mg/L-N)			TIN-Ammonia (mg/L-N)	TIN-Nitrate (mg/L-N)	TIN-Nitrite (mg/L-N)	Total Inorganic Nitrogen (mg/L-N)			E.coli (cfu/100mL)			Synthetic Detergent (mg/L)			BOD <sub>5</sub> (mg/L)																					
										Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Value	Value	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.																			
C1A	29/4/2017	Mid-Flood	Fine	Moderate	10:05	28	S	1	1	6	8	0.24	0.23	0.20	0.007	0.007	0.005	0.24	0.37	0.02	0.63	0.62	0.59	25	30	30	NA	NA	NA	<1	1	1																				
C1A	29/4/2017	Mid-Flood	Fine	Moderate	10:05	28	S	1	2	7		0.22			0.007			0.22	0.37	0.02	0.61			35			NA			NA			<1																			
C1A	29/4/2017	Mid-Flood	Fine	Moderate	10:05	28	S	1	3				0.23		0.37	0.02		0.62																																		
C1A	29/4/2017	Mid-Flood	Fine	Moderate	10:05	28	M	14	1	8		9	0.18		0.19	0.20		0.005	0.005	0.005	0.18	0.36		0.02	0.56		0.59	19		22	22		NA	NA	NA	<1	1	1														
C1A	29/4/2017	Mid-Flood	Fine	Moderate	10:05	28	M	14	2	6			0.19					0.005			0.19	0.36		0.02	0.57			26					NA			NA			<1													
C1A	29/4/2017	Mid-Flood	Fine	Moderate	10:05	28	M	14	3									0.20			0.36	0.02		0.58																												
C1A	29/4/2017	Mid-Flood	Fine	Moderate	10:05	28	B	27	1	9		9	0.15		0.19			0.20	0.004		0.005	0.005		0.15	0.37		0.01	0.53		0.59			34	40		40	NA		NA	NA	<1	1	1									
C1A	29/4/2017	Mid-Flood	Fine	Moderate	10:05	28	B	27	2	9			0.23						0.006					0.23	0.37		0.02	0.62					46				NA				NA			<1								
C1A	29/4/2017	Mid-Flood	Fine	Moderate	10:05	28	B	27	3										0.22					0.37	0.02		0.61																									
C2A	29/4/2017	Mid-Flood	Fine	Moderate	7:35	13	S	1	1	8	9	0.61	0.59	0.46	0.012		0.012		0.009		0.61		0.30	0.02	0.93	0.90	11	16	16	NA		NA	NA	<1			1		1													
C2A	29/4/2017	Mid-Flood	Fine	Moderate	7:35	13	S	1	2	9		0.56			0.011						0.56		0.31	0.01	0.88		23			NA				NA							<1											
C2A	29/4/2017	Mid-Flood	Fine	Moderate	7:35	13	S	1	3						0.57						0.30		0.02	0.89																												
C2A	29/4/2017	Mid-Flood	Fine	Moderate	7:35	13	M	6.5	1	11	10	0.32	0.33		0.46	0.006	0.007			0.009	0.32		0.29	0.01	0.62	0.62	13	14		13	NA	NA		NA	<1		1	1														
C2A	29/4/2017	Mid-Flood	Fine	Moderate	7:35	13	M	6.5	2	9		0.34				0.007					0.34		0.28	0.01	0.63		16				NA				NA						<1											
C2A	29/4/2017	Mid-Flood	Fine	Moderate	7:35	13	M	6.5	3							0.32					0.29		0.01	0.62																												
C2A	29/4/2017	Mid-Flood	Fine	Moderate	7:35	13	B	12	1	11	12	0.44	0.45			0.46	0.008	0.009			0.009	0.44	0.28	0.01	0.73	0.74	9	10			10	NA			NA	NA	<1			1	1											
C2A	29/4/2017	Mid-Flood	Fine	Moderate	7:35	13	B	12	2	12		0.46					0.009					0.46	0.29	<0.01	0.75		11					NA					NA					<1										
C2A	29/4/2017	Mid-Flood	Fine	Moderate	7:35	13	B	12	3								0.44					0.29	<0.01	0.73																												
G2	29/4/2017	Mid-Flood	Fine	Moderate	9:05	12	S	1	1	6	8	NA	NA	NA			NA	NA	NA			0.18	0.46	0.02	0.66	0.68	NA	NA	NA			NA	NA		NA		NA		NA	NA												
G2	29/4/2017	Mid-Flood	Fine	Moderate	9:05	12	S	1	2	5		NA					NA					NA	NA	NA	NA		0.20					0.47					0.02					0.69	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
G2	29/4/2017	Mid-Flood	Fine	Moderate	9:05	12	S	1	3								NA					NA	NA	NA	NA		0.21					0.46					0.02					0.69	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
G2	29/4/2017	Mid-Flood	Fine	Moderate	9:05	12	M	6	1	8		NA			NA		NA			NA		NA	NA	0.16	0.45		0.02			0.63		0.64		NA			NA	NA				NA	NA	NA	NA	NA	NA	NA				
G2	29/4/2017	Mid-Flood	Fine	Moderate	9:05	12	M	6	2	9		NA			NA		NA			NA		NA	NA	0.16	0.45		0.02			0.63		0.64		NA			NA	NA				NA	NA	NA	NA	NA	NA	NA				
G2	29/4/2017	Mid-Flood	Fine	Moderate	9:05	12	M	6	3						NA		NA			NA		NA	NA	0.17	0.46		0.02			0.65		0.64		NA			NA	NA				NA	NA	NA	NA	NA	NA	NA				
G2	29/4/2017	Mid-Flood	Fine	Moderate	9:05	12	B	11	1	10		NA			NA	NA	NA			NA	NA	0.16	0.45	0.02	0.63		0.64			NA	NA	NA		NA		NA	NA	NA			NA	NA	NA									
G2	29/4/2017	Mid-Flood	Fine	Moderate	9:05	12	B	11	2	8		NA			NA	NA	NA			NA	NA	0.16	0.45	0.02	0.63		0.64			NA	NA	NA		NA		NA	NA	NA			NA	NA	NA									
G2	29/4/2017	Mid-Flood	Fine	Moderate	9:05	12	B	11	3						NA	NA	NA			NA	NA	0.18	0.45	0.02	0.65		0.64			NA	NA	NA		NA		NA	NA	NA			NA	NA	NA									
SR2	29/4/2017	Mid-Flood	Fine	Moderate	9:25	9	S	1	1	7	7	0.21	0.20	0.18	0.005	0.005	0.005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA																					
SR2	29/4/2017	Mid-Flood	Fine	Moderate	9:25	9	S	1	2	7		0.18			0.005			NA	NA	NA	NA		NA			NA			NA			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA										
SR2	29/4/2017	Mid-Flood	Fine	Moderate	9:25	9	S	1	3						NA			NA	NA	NA	NA		NA			NA			NA			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA									
SR2	29/4/2017	Mid-Flood	Fine	Moderate	9:25	9	M	4.5	1	8		0.16			0.004			NA	NA	NA	NA		NA			NA			NA			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA									
SR2	29/4/2017	Mid-Flood	Fine	Moderate	9:25	9	M	4.5	2	6		0.18			0.005			NA	NA	NA	NA		NA			NA			NA			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA									
SR2	29/4/2017	Mid-Flood	Fine	Moderate	9:25	9	M	4.5	3						NA			NA	NA	NA	NA		NA			NA			NA			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA									
SR2	29/4/2017	Mid-Flood	Fine	Moderate	9:25	9	B	8	1	7		0.18			0.005			NA	NA	NA	NA		NA			NA			NA			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA									
SR2	29/4/2017	Mid-Flood	Fine	Moderate	9:25	9	B	8	2	7		0.17			0.004			NA	NA	NA	NA		NA			NA			NA			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA									
SR2	29/4/2017	Mid-Flood	Fine	Moderate	9:25	9	B	8	3						NA			NA	NA	NA	NA		NA			NA			NA			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA									
SR3	29/4/2017	Mid-Flood	Fine	Moderate	8:50	8	S	1	1	6	7	0.30	0.28	0.22	0.007	0.007	0.005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA																					
SR3	29/4/2017	Mid-Flood	Fine	Moderate	8:50	8	S	1	2	7		0.26			0.006			NA	NA	NA	NA		NA			NA			NA			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA										
SR3	29/4/2017	Mid-Flood	Fine	Moderate	8:50	8	S	1	3						NA			NA	NA	NA	NA		NA			NA			NA			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA									
SR3	29/4/2017	Mid-Flood	Fine	Moderate	8:50	8	M	4	1	7		0.19			0.005			NA	NA	NA	NA		NA			NA			NA			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA									
SR3	29/4/2017	Mid-Flood	Fine	Moderate	8:50	8	M	4	2	7		0.20			0.005			NA	NA	NA	NA		NA			NA			NA			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA									
SR3	29/4/2017	Mid-Flood	Fine	Moderate	8:50	8	M	4	3						NA			NA	NA	NA	NA		NA			NA			NA			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA									
SR3	29/4/2017	Mid-Flood	Fine	Moderate	8:50	8	B	7	1	8		0.18			0.004			NA	NA	NA	NA		NA			NA			NA			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA									
SR3	29/4/2017	Mid-Flood	Fine	Moderate	8:50	8	B	7	2	8		0.18			0.004			NA	NA	NA	NA		NA			NA			NA			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA									
SR3	29/4/2017	Mid-Flood	Fine	Moderate	8:50	8	B	7	3						NA			NA	NA	NA	NA		NA			NA			NA			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA									





Impact Monitoring Data

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement																								
										pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)			Ammonia (mg/L-N)			UIA (mg/L-N)			TIN-Ammonia (mg/L-N)	TIN-Nitrite (mg/L-N)	TIN-Nitrate (mg/L-N)	Total Inorganic Nitrogen (mg/L-N)		
										Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	S & M Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Value	Value	Value	Ave.
SR4	29/4/2017	Mid-Ebb	Fine	Moderate	12:19	4	S	1	1	7.76	29.96	29.96	22.92	75.3	75.2	5.44	5.44	5.0	4.7	0.20	0.20	0.004	0.004	NA	NA	NA	NA	NA	NA					
SR4	29/4/2017	Mid-Ebb	Fine	Moderate	12:19	4	S	1	2	7.75	29.95	29.96	22.91	75.0	75.2	5.43	5.44	5.0	4.7	0.20	0.20	0.004	0.004	NA	NA	NA	NA	NA	NA					
SR4	29/4/2017	Mid-Ebb	Fine	Moderate	12:19	4	S	1	3																									
SR4	29/4/2017	Mid-Ebb	Fine	Moderate	12:19	4	M		1																									
SR4	29/4/2017	Mid-Ebb	Fine	Moderate	12:19	4	M		2																									
SR4	29/4/2017	Mid-Ebb	Fine	Moderate	12:19	4	M		3																									
SR4	29/4/2017	Mid-Ebb	Fine	Moderate	12:19	4	B	3	1	7.75	29.99	29.94	22.91	74.3	74.5	5.36	5.37	5.0	4.9	0.25	0.25	0.005	0.005	NA	NA	NA	NA	NA	NA					
SR4	29/4/2017	Mid-Ebb	Fine	Moderate	12:19	4	B	3	2	7.74	29.88	29.94	22.93	74.6	74.5	5.37	5.37	4.9	5.0	0.25	0.25	0.005	0.005	NA	NA	NA	NA	NA	NA					
SR4	29/4/2017	Mid-Ebb	Fine	Moderate	12:19	4	B	3	3																									
SR5	29/4/2017	Mid-Ebb	Fine	Moderate	11:16	11	S	1	1	7.83	29.98	29.99	23.01	80.9	80.9	5.83	5.83	6.0	5.7	NA	NA	NA	NA	0.18	0.36	0.01	0.55	0.55						
SR5	29/4/2017	Mid-Ebb	Fine	Moderate	11:16	11	S	1	2	7.83	29.99	29.99	23.01	80.8	80.9	5.83	5.83	6.0	5.7	NA	NA	NA	NA	0.18	0.36	0.01	0.55	0.55						
SR5	29/4/2017	Mid-Ebb	Fine	Moderate	11:16	11	S	1	3															0.18	0.36	0.01	0.55	0.55						
SR5	29/4/2017	Mid-Ebb	Fine	Moderate	11:16	11	M	5.5	1	7.82	30.03	30.04	22.97	78.4	78.5	5.67	5.68	6.0	5.9	NA	NA	NA	NA	0.15	0.35	0.02	0.52	0.51	0.52					
SR5	29/4/2017	Mid-Ebb	Fine	Moderate	11:16	11	M	5.5	2	7.82	30.04	30.04	22.98	78.6	78.5	5.68	5.68	5.9	6.0	NA	NA	NA	NA	0.15	0.34	0.01	0.50	0.51	0.52					
SR5	29/4/2017	Mid-Ebb	Fine	Moderate	11:16	11	M	5.5	3															0.15	0.34	0.02	0.51	0.51						
SR5	29/4/2017	Mid-Ebb	Fine	Moderate	11:16	11	B	10	1	7.81	30.07	30.08	22.95	78.1	78.3	5.63	5.64	5.9	5.8	NA	NA	NA	NA	0.15	0.34	0.02	0.51	0.51						
SR5	29/4/2017	Mid-Ebb	Fine	Moderate	11:16	11	B	10	2	7.82	30.08	30.08	22.96	78.4	78.3	5.65	5.64	5.8	5.9	NA	NA	NA	NA	0.15	0.34	0.01	0.50	0.50	0.50					
SR5	29/4/2017	Mid-Ebb	Fine	Moderate	11:16	11	B	10	3															0.15	0.34	0.01	0.50	0.50						
SR12	29/4/2017	Mid-Ebb	Fine	Moderate	12:39	15	S	1	1	7.71	30.58	30.58	22.82	77.9	77.8	5.62	5.61	2.4	2.2	0.30	0.30	0.006	0.006	NA	NA	NA	NA	NA	NA					
SR12	29/4/2017	Mid-Ebb	Fine	Moderate	12:39	15	S	1	2	7.70	30.57	30.58	22.81	77.6	77.8	5.60	5.61	2.2	2.2	0.30	0.30	0.006	0.006	NA	NA	NA	NA	NA	NA					
SR12	29/4/2017	Mid-Ebb	Fine	Moderate	12:39	15	S	1	3																									
SR12	29/4/2017	Mid-Ebb	Fine	Moderate	12:39	15	M	7.5	1	7.70	30.57	30.58	22.83	77.4	77.5	5.58	5.58	2.3	2.3	0.26	0.26	0.005	0.005	NA	NA	NA	NA	NA	NA					
SR12	29/4/2017	Mid-Ebb	Fine	Moderate	12:39	15	M	7.5	2	7.71	30.58	30.58	22.84	77.6	77.5	5.58	5.58	2.3	2.3	0.26	0.26	0.005	0.005	NA	NA	NA	NA	NA	NA					
SR12	29/4/2017	Mid-Ebb	Fine	Moderate	12:39	15	M	7.5	3																									
SR12	29/4/2017	Mid-Ebb	Fine	Moderate	12:39	15	B	14	1	7.70	30.59	30.60	22.83	77.2	77.3	5.56	5.56	2.6	2.7	0.26	0.26	0.005	0.005	NA	NA	NA	NA	NA	NA					
SR12	29/4/2017	Mid-Ebb	Fine	Moderate	12:39	15	B	14	2	7.71	30.60	30.60	22.82	77.4	77.3	5.56	5.56	2.7	2.7	0.26	0.26	0.005	0.005	NA	NA	NA	NA	NA	NA					
SR12	29/4/2017	Mid-Ebb	Fine	Moderate	12:39	15	B	14	3																									
SR13	29/4/2017	Mid-Ebb	Fine	Moderate	12:56	14	S	1	1	7.72	30.28	30.29	22.88	76.4	76.4	5.47	5.47	3.0	3.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA					
SR13	29/4/2017	Mid-Ebb	Fine	Moderate	12:56	14	S	1	2	7.71	30.29	30.29	22.87	76.3	76.4	5.47	5.47	3.1	3.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA					
SR13	29/4/2017	Mid-Ebb	Fine	Moderate	12:56	14	S	1	3																									
SR13	29/4/2017	Mid-Ebb	Fine	Moderate	12:56	14	M	7	1	7.71	30.33	30.34	22.89	76.1	76.1	5.46	5.46	2.7	2.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA					
SR13	29/4/2017	Mid-Ebb	Fine	Moderate	12:56	14	M	7	2	7.72	30.35	30.34	22.90	76.1	76.1	5.46	5.46	2.8	2.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA					
SR13	29/4/2017	Mid-Ebb	Fine	Moderate	12:56	14	M	7	3																									
SR13	29/4/2017	Mid-Ebb	Fine	Moderate	12:56	14	B	13	1	7.72	30.38	30.38	22.81	75.8	75.9	5.46	5.46	2.9	2.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA					
SR13	29/4/2017	Mid-Ebb	Fine	Moderate	12:56	14	B	13	2	7.71	30.38	30.38	22.81	75.9	75.9	5.46	5.46	2.9	2.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA					
SR13	29/4/2017	Mid-Ebb	Fine	Moderate	12:56	14	B	13	3																									

- Note: 1. Depth Ave.: (Except E.coli) "Depth-averaged" is calculated by taking the arithmetic means for the reading of the surface, middle and bottom depths  
 2. ND: Not Detected  
 3. Depth Averaged of E.coli is calculated by taking geometric mean of the readings of the surface, middle and bottom, all ND sample results (<1) for E.coli is regarded as 1 in calculating the geometric mean.









Impact Monitoring Data

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement																											
										pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)			Ammonia (mg/L-N)			UIA (mg/L-N)			TIN-Ammonia (mg/L-N)	TIN-Nitrite (mg/L-N)	TIN-Nitrate (mg/L-N)	Total Inorganic Nitrogen (mg/L-N)					
										Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	S & M Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Value	Value	Value	Ave.	Depth Ave.
SR4	2/5/2017	Mid-Flood	Fine	Moderate	11:11	4	S	1	1	7.80																											
SR4	2/5/2017	Mid-Flood	Fine	Moderate	11:11	4	S	1	2	7.81	7.81	28.71	28.71	23.91	23.93	23.92	80.6	80.6	5.76	5.77																	
SR4	2/5/2017	Mid-Flood	Fine	Moderate	11:11	4	S	1	3																												
SR4	2/5/2017	Mid-Flood	Fine	Moderate	11:11	4	M		1																												
SR4	2/5/2017	Mid-Flood	Fine	Moderate	11:11	4	M		2			NA		NA																							
SR4	2/5/2017	Mid-Flood	Fine	Moderate	11:11	4	M		3																												
SR4	2/5/2017	Mid-Flood	Fine	Moderate	11:11	4	B	3	1	7.78	7.78	28.98	28.98	23.83	23.83	23.83	79.3	79.3	5.68	5.69																	
SR4	2/5/2017	Mid-Flood	Fine	Moderate	11:11	4	B	3	2	7.78																											
SR4	2/5/2017	Mid-Flood	Fine	Moderate	11:11	4	B	3	3																												
SR5	2/5/2017	Mid-Flood	Fine	Moderate	13:00	11	S	1	1	7.88	7.88	27.59	27.59	23.93	23.93	23.93	87.9	87.9	6.31	6.31																	
SR5	2/5/2017	Mid-Flood	Fine	Moderate	13:00	11	S	1	2	7.88																											
SR5	2/5/2017	Mid-Flood	Fine	Moderate	13:00	11	S	1	3																												
SR5	2/5/2017	Mid-Flood	Fine	Moderate	13:00	11	M	5	1	7.87	7.87	28.06	28.06	23.88	23.88	23.87	87.2	87.2	6.24	6.25																	
SR5	2/5/2017	Mid-Flood	Fine	Moderate	13:00	11	M	5	2	7.86																											
SR5	2/5/2017	Mid-Flood	Fine	Moderate	13:00	11	M	5	3																												
SR5	2/5/2017	Mid-Flood	Fine	Moderate	13:00	11	B	10	1	7.85	7.85	29.56	29.56	23.62	23.62	23.63	84.5	84.5	6.07	6.06																	
SR5	2/5/2017	Mid-Flood	Fine	Moderate	13:00	11	B	10	2	7.84																											
SR5	2/5/2017	Mid-Flood	Fine	Moderate	13:00	11	B	10	3																												
SR12	2/5/2017	Mid-Flood	Fine	Moderate	10:39	15	S	1	1	7.79	7.79	29.78	29.78	23.23	23.23	23.23	77.6	77.6	5.53	5.54																	
SR12	2/5/2017	Mid-Flood	Fine	Moderate	10:39	15	S	1	2	7.79																											
SR12	2/5/2017	Mid-Flood	Fine	Moderate	10:39	15	S	1	3																												
SR12	2/5/2017	Mid-Flood	Fine	Moderate	10:39	15	M	7	1	7.77	7.77	29.69	29.70	23.70	23.69	23.70	76.9	76.9	5.49	5.50																	
SR12	2/5/2017	Mid-Flood	Fine	Moderate	10:39	15	M	7	2	7.77																											
SR12	2/5/2017	Mid-Flood	Fine	Moderate	10:39	15	M	7	3																												
SR12	2/5/2017	Mid-Flood	Fine	Moderate	10:39	15	B	14	1	7.75	7.75	29.75	29.75	23.73	23.74	23.74	76.7	76.8	5.48	5.48																	
SR12	2/5/2017	Mid-Flood	Fine	Moderate	10:39	15	B	14	2	7.75																											
SR12	2/5/2017	Mid-Flood	Fine	Moderate	10:39	15	B	14	3																												
SR13	2/5/2017	Mid-Flood	Fine	Moderate	10:17	14	S	1	1	7.81	7.81	29.47	29.47	23.90	23.91	23.91	82.1	82.2	5.82	5.83																	
SR13	2/5/2017	Mid-Flood	Fine	Moderate	10:17	14	S	1	2	7.81																											
SR13	2/5/2017	Mid-Flood	Fine	Moderate	10:17	14	S	1	3																												
SR13	2/5/2017	Mid-Flood	Fine	Moderate	10:17	14	M	7	1	7.79	7.79	29.66	29.66	23.73	23.72	23.73	79.6	79.6	5.69	5.69																	
SR13	2/5/2017	Mid-Flood	Fine	Moderate	10:17	14	M	7	2	7.79																											
SR13	2/5/2017	Mid-Flood	Fine	Moderate	10:17	14	M	7	3																												
SR13	2/5/2017	Mid-Flood	Fine	Moderate	10:17	14	B	13	1	7.77	7.77	30.01	30.01	23.66	23.66	23.66	78.7	78.7	5.69	5.69																	
SR13	2/5/2017	Mid-Flood	Fine	Moderate	10:17	14	B	13	2	7.76																											
SR13	2/5/2017	Mid-Flood	Fine	Moderate	10:17	14	B	13	3																												

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 2. ND: Not Detected  
 3. Depth Averaged of E.coli is calculated by taking geometric mean of the readings of the surface, middle and bottom, all ND sample results (<1) for E.coli is regarded as 1 in calculating the geometric mean.













Impact Monitoring Data

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	Laboratory Analysis																							
										Total Suspended Solids (mg/L)			Ammonia Nitrogen (mg/L-N)			UIA (mg/L-N)			TIN-Ammonia (mg/L-N)	TIN-Nitrate (mg/L-N)	TIN-Nitrite (mg/L-N)	Total Inorganic Nitrogen (mg/L-N)			E.coli (cfu/100mL)			Synthetic Detergent (mg/L)			BOD <sub>5</sub> (mg/L)		
										Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Value	Value	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.
SR4	2/5/2017	Mid-Ebb	Cloudy	Moderate	14:46	4	S	1	1	8																							
SR4	2/5/2017	Mid-Ebb	Cloudy	Moderate	14:46	4	S	1	2	7																							
SR4	2/5/2017	Mid-Ebb	Cloudy	Moderate	14:46	4	S	1	3																								
SR4	2/5/2017	Mid-Ebb	Cloudy	Moderate	14:46	4	M		1																								
SR4	2/5/2017	Mid-Ebb	Cloudy	Moderate	14:46	4	M		2																								
SR4	2/5/2017	Mid-Ebb	Cloudy	Moderate	14:46	4	M		3																								
SR4	2/5/2017	Mid-Ebb	Cloudy	Moderate	14:46	4	B	3	1	9																							
SR4	2/5/2017	Mid-Ebb	Cloudy	Moderate	14:46	4	B	3	2	8																							
SR4	2/5/2017	Mid-Ebb	Cloudy	Moderate	14:46	4	B	3	3																								
SR5	2/5/2017	Mid-Ebb	Cloudy	Moderate	13:48	11	S	1	1	4																							
SR5	2/5/2017	Mid-Ebb	Cloudy	Moderate	13:48	11	S	1	2	5																							
SR5	2/5/2017	Mid-Ebb	Cloudy	Moderate	13:48	11	S	1	3																								
SR5	2/5/2017	Mid-Ebb	Cloudy	Moderate	13:48	11	M	5	1	6																							
SR5	2/5/2017	Mid-Ebb	Cloudy	Moderate	13:48	11	M	5	2	4																							
SR5	2/5/2017	Mid-Ebb	Cloudy	Moderate	13:48	11	M	5	3																								
SR5	2/5/2017	Mid-Ebb	Cloudy	Moderate	13:48	11	B	10	1	8																							
SR5	2/5/2017	Mid-Ebb	Cloudy	Moderate	13:48	11	B	10	2	7																							
SR5	2/5/2017	Mid-Ebb	Cloudy	Moderate	13:48	11	B	10	3																								
SR12	2/5/2017	Mid-Ebb	Cloudy	Moderate	14:56	15	S	1	1	6																							
SR12	2/5/2017	Mid-Ebb	Cloudy	Moderate	14:56	15	S	1	2	5																							
SR12	2/5/2017	Mid-Ebb	Cloudy	Moderate	14:56	15	S	1	3																								
SR12	2/5/2017	Mid-Ebb	Cloudy	Moderate	14:56	15	M	7	1	6																							
SR12	2/5/2017	Mid-Ebb	Cloudy	Moderate	14:56	15	M	7	2	6																							
SR12	2/5/2017	Mid-Ebb	Cloudy	Moderate	14:56	15	M	7	3																								
SR12	2/5/2017	Mid-Ebb	Cloudy	Moderate	14:56	15	B	14	1	6																							
SR12	2/5/2017	Mid-Ebb	Cloudy	Moderate	14:56	15	B	14	2	6																							
SR12	2/5/2017	Mid-Ebb	Cloudy	Moderate	14:56	15	B	14	3																								
SR13	2/5/2017	Mid-Ebb	Cloudy	Moderate	15:04	14	S	1	1	6																							
SR13	2/5/2017	Mid-Ebb	Cloudy	Moderate	15:04	14	S	1	2	6																							
SR13	2/5/2017	Mid-Ebb	Cloudy	Moderate	15:04	14	S	1	3																								
SR13	2/5/2017	Mid-Ebb	Cloudy	Moderate	15:04	14	M	7	1	6																							
SR13	2/5/2017	Mid-Ebb	Cloudy	Moderate	15:04	14	M	7	2	6																							
SR13	2/5/2017	Mid-Ebb	Cloudy	Moderate	15:04	14	M	7	3																								
SR13	2/5/2017	Mid-Ebb	Cloudy	Moderate	15:04	14	B	13	1	6																							
SR13	2/5/2017	Mid-Ebb	Cloudy	Moderate	15:04	14	B	13	2	6																							
SR13	2/5/2017	Mid-Ebb	Cloudy	Moderate	15:04	14	B	13	3																								

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 3. Depth Averaged of E.coli is calculated by taking geometric mean of the readings of the surface, middle and bottom, all ND sample results (<1) for E.coli is regarded as 1 in calculating the geometric mean.







Impact Monitoring Data

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	Laboratory Analysis																										
										Total Suspended Solids (mg/L)			Ammonia Nitrogen (mg/L-N)			UIA (mg/L-N)			TIN-Ammonia (mg/L-N)	TIN-Nitrate (mg/L-N)	TIN-Nitrite (mg/L-N)	Total Inorganic Nitrogen (mg/L-N)			E.coli (cfu/100mL)			Synthetic Detergent (mg/L)			BOD <sub>5</sub> (mg/L)					
										Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Value	Value	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.
SR4	4/5/2017	Mid-Flood	Rainy	Moderate	10:55	4	S	1	1	3	4	0.17 0.18	0.18	0.005 0.005	0.005	NA	NA	NA	NA	NA	NA	300 270	285	NA NA	NA NA	NA NA	1 <1	1	1							
SR4	4/5/2017	Mid-Flood	Rainy	Moderate	10:55	4	S	1	2	4																										
SR4	4/5/2017	Mid-Flood	Rainy	Moderate	10:55	4	S	1	3																											
SR4	4/5/2017	Mid-Flood	Rainy	Moderate	10:55	4	M	1	1																											
SR4	4/5/2017	Mid-Flood	Rainy	Moderate	10:55	4	M	2	2		NA	NA	0.18	NA	0.005	NA	NA	NA	NA	NA	NA	NA	406	NA NA	NA NA	NA NA	NA NA	NA NA								
SR4	4/5/2017	Mid-Flood	Rainy	Moderate	10:55	4	M	3	3																											
SR4	4/5/2017	Mid-Flood	Rainy	Moderate	10:55	4	B	3	2	3																										
SR4	4/5/2017	Mid-Flood	Rainy	Moderate	10:55	4	B	3	3																											
SR4	4/5/2017	Mid-Flood	Rainy	Moderate	10:55	4	B	3	3		3	0.19 0.18	0.19	0.005 0.005	0.005	NA	NA	NA	NA	NA	NA	560 600	580	NA NA	NA NA	NA NA	<1 <1	1	1							
SR5	4/5/2017	Mid-Flood	Rainy	Moderate	9:38	11	S	1	1	<1																										
SR5	4/5/2017	Mid-Flood	Rainy	Moderate	9:38	11	S	1	2	2																										
SR5	4/5/2017	Mid-Flood	Rainy	Moderate	9:38	11	S	1	3																											
SR5	4/5/2017	Mid-Flood	Rainy	Moderate	9:38	11	M	5.5	1	3	2	NA	NA	NA	NA	0.17	0.36	0.02	0.55	0.55	NA	NA	NA	NA	NA	NA	NA	NA	NA							
SR5	4/5/2017	Mid-Flood	Rainy	Moderate	9:38	11	M	5.5	2	2																										
SR5	4/5/2017	Mid-Flood	Rainy	Moderate	9:38	11	M	5.5	3																											
SR5	4/5/2017	Mid-Flood	Rainy	Moderate	9:38	11	B	10	1	3																										
SR5	4/5/2017	Mid-Flood	Rainy	Moderate	9:38	11	B	10	2	5	3	NA	NA	NA	NA	0.18	0.36	0.02	0.56	0.56	NA	NA	NA	NA	NA	NA	NA	NA	NA							
SR5	4/5/2017	Mid-Flood	Rainy	Moderate	9:38	11	B	10	3																											
SR5	4/5/2017	Mid-Flood	Rainy	Moderate	9:38	11	B	10	3																											
SR5	4/5/2017	Mid-Flood	Rainy	Moderate	9:38	11	B	10	3																											
SR12	4/5/2017	Mid-Flood	Rainy	Moderate	11:20	15	S	1	1	2	2	0.17 0.18	0.18	0.005 0.005	0.005	NA	NA	NA	NA	NA	NA	250 230	240	NA NA	NA NA	NA NA	1 1	1	1							
SR12	4/5/2017	Mid-Flood	Rainy	Moderate	11:20	15	S	1	2	2																										
SR12	4/5/2017	Mid-Flood	Rainy	Moderate	11:20	15	S	1	3																											
SR12	4/5/2017	Mid-Flood	Rainy	Moderate	11:20	15	M	7.5	1	<1																										
SR12	4/5/2017	Mid-Flood	Rainy	Moderate	11:20	15	M	7.5	2	1	1	0.18 0.18	0.18	0.005 0.005	0.005	NA	NA	NA	NA	NA	NA	890 950	920	NA NA	NA NA	NA NA	<1 <1	1	1							
SR12	4/5/2017	Mid-Flood	Rainy	Moderate	11:20	15	M	7.5	3																											
SR12	4/5/2017	Mid-Flood	Rainy	Moderate	11:20	15	B	14	1	3																										
SR12	4/5/2017	Mid-Flood	Rainy	Moderate	11:20	15	B	14	2	3																										
SR12	4/5/2017	Mid-Flood	Rainy	Moderate	11:20	15	B	14	3		3	0.14 0.15	0.15	0.004 0.004	0.004	NA	NA	NA	NA	NA	NA	470 420	444	NA NA	NA NA	NA NA	1 1	1	1							
SR12	4/5/2017	Mid-Flood	Rainy	Moderate	11:20	15	B	14	3																											
SR13	4/5/2017	Mid-Flood	Rainy	Moderate	11:55	14	S	1	1	5																										
SR13	4/5/2017	Mid-Flood	Rainy	Moderate	11:55	14	S	1	2	3																										
SR13	4/5/2017	Mid-Flood	Rainy	Moderate	11:55	14	S	1	3		4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA							
SR13	4/5/2017	Mid-Flood	Rainy	Moderate	11:55	14	S	1	3																											
SR13	4/5/2017	Mid-Flood	Rainy	Moderate	11:55	14	M	7	1	8																										
SR13	4/5/2017	Mid-Flood	Rainy	Moderate	11:55	14	M	7	2	7																										
SR13	4/5/2017	Mid-Flood	Rainy	Moderate	11:55	14	M	7	3		8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA							
SR13	4/5/2017	Mid-Flood	Rainy	Moderate	11:55	14	M	7	3																											
SR13	4/5/2017	Mid-Flood	Rainy	Moderate	11:55	14	B	13	1	9																										
SR13	4/5/2017	Mid-Flood	Rainy	Moderate	11:55	14	B	13	2	7																										
SR13	4/5/2017	Mid-Flood	Rainy	Moderate	11:55	14	B	13	3		8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA							
SR13	4/5/2017	Mid-Flood	Rainy	Moderate	11:55	14	B	13	2	7																										
SR13	4/5/2017	Mid-Flood	Rainy	Moderate	11:55	14	B	13	2	7																										
SR13	4/5/2017	Mid-Flood	Rainy	Moderate	11:55	14	B	13	3																											

Note: 1. Depth Ave.: (Except E.coli) "Depth-averaged" is calculated by taking the arithmetic means for the reading of the surface, middle and bottom depths  
 2. ND: Not Detected  
 3. Depth Averaged of E.coli is calculated by taking geometric mean of the readings of the surface, middle and bottom, all ND sample results (<1) for E.coli is regarded as 1 in calculating the geometric mean.







Impact Monitoring Data

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	Laboratory Analysis																							
										Total Suspended Solids (mg/L)			Ammonia Nitrogen (mg/L-N)			UIA (mg/L-N)			TIN-Ammonia (mg/L-N)	TIN-Nitrate (mg/L-N)	TIN-Nitrite (mg/L-N)	Total Inorganic Nitrogen (mg/L-N)			E.coli (cfu/100mL)			Synthetic Detergent (mg/L)			BOD <sub>5</sub> (mg/L)		
										Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Value	Value	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.
C1A	4/5/2017	Mid-Ebb	Rainy	Moderate	9:09	28	S	1	1	5																							
C1A	4/5/2017	Mid-Ebb	Rainy	Moderate	9:09	28	S	1	2	4																							
C1A	4/5/2017	Mid-Ebb	Rainy	Moderate	9:09	28	S	1	3																								
C1A	4/5/2017	Mid-Ebb	Rainy	Moderate	9:09	28	M	14	1	<1																							
C1A	4/5/2017	Mid-Ebb	Rainy	Moderate	9:09	28	M	14	2	2																							
C1A	4/5/2017	Mid-Ebb	Rainy	Moderate	9:09	28	M	14	3																								
C1A	4/5/2017	Mid-Ebb	Rainy	Moderate	9:09	28	B	27	1	8																							
C1A	4/5/2017	Mid-Ebb	Rainy	Moderate	9:09	28	B	27	2	6																							
C1A	4/5/2017	Mid-Ebb	Rainy	Moderate	9:09	28	B	27	3																								
C2A	4/5/2017	Mid-Ebb	Rainy	Moderate	7:05	13	S	1	1	7																							
C2A	4/5/2017	Mid-Ebb	Rainy	Moderate	7:05	13	S	1	2	4																							
C2A	4/5/2017	Mid-Ebb	Rainy	Moderate	7:05	13	S	1	3																								
C2A	4/5/2017	Mid-Ebb	Rainy	Moderate	7:05	13	M	6.5	1	10																							
C2A	4/5/2017	Mid-Ebb	Rainy	Moderate	7:05	13	M	6.5	2	9																							
C2A	4/5/2017	Mid-Ebb	Rainy	Moderate	7:05	13	M	6.5	3																								
C2A	4/5/2017	Mid-Ebb	Rainy	Moderate	7:05	13	B	12	1	4																							
C2A	4/5/2017	Mid-Ebb	Rainy	Moderate	7:05	13	B	12	2	3																							
C2A	4/5/2017	Mid-Ebb	Rainy	Moderate	7:05	13	B	12	3																								
G2	4/5/2017	Mid-Ebb	Rainy	Moderate	8:25	12	S	1	1	4																							
G2	4/5/2017	Mid-Ebb	Rainy	Moderate	8:25	12	S	1	2	3																							
G2	4/5/2017	Mid-Ebb	Rainy	Moderate	8:25	12	S	1	3																								
G2	4/5/2017	Mid-Ebb	Rainy	Moderate	8:25	12	M	6	1	7																							
G2	4/5/2017	Mid-Ebb	Rainy	Moderate	8:25	12	M	6	2	5																							
G2	4/5/2017	Mid-Ebb	Rainy	Moderate	8:25	12	M	6	3																								
G2	4/5/2017	Mid-Ebb	Rainy	Moderate	8:25	12	B	11	1	4																							
G2	4/5/2017	Mid-Ebb	Rainy	Moderate	8:25	12	B	11	2	4																							
G2	4/5/2017	Mid-Ebb	Rainy	Moderate	8:25	12	B	11	3																								
SR2	4/5/2017	Mid-Ebb	Rainy	Moderate	8:39	9	S	1	1	2																							
SR2	4/5/2017	Mid-Ebb	Rainy	Moderate	8:39	9	S	1	2	3																							
SR2	4/5/2017	Mid-Ebb	Rainy	Moderate	8:39	9	S	1	3																								
SR2	4/5/2017	Mid-Ebb	Rainy	Moderate	8:39	9	M	4.5	1	3																							
SR2	4/5/2017	Mid-Ebb	Rainy	Moderate	8:39	9	M	4.5	2	2																							
SR2	4/5/2017	Mid-Ebb	Rainy	Moderate	8:39	9	M	4.5	3																								
SR2	4/5/2017	Mid-Ebb	Rainy	Moderate	8:39	9	B	8	1	2																							
SR2	4/5/2017	Mid-Ebb	Rainy	Moderate	8:39	9	B	8	2	3																							
SR2	4/5/2017	Mid-Ebb	Rainy	Moderate	8:39	9	B	8	3																								
SR3	4/5/2017	Mid-Ebb	Rainy	Moderate	8:10	8	S	1	1	5																							
SR3	4/5/2017	Mid-Ebb	Rainy	Moderate	8:10	8	S	1	2	4																							
SR3	4/5/2017	Mid-Ebb	Rainy	Moderate	8:10	8	S	1	3																								
SR3	4/5/2017	Mid-Ebb	Rainy	Moderate	8:10	8	M	4	1	2																							
SR3	4/5/2017	Mid-Ebb	Rainy	Moderate	8:10	8	M	4	2	1																							
SR3	4/5/2017	Mid-Ebb	Rainy	Moderate	8:10	8	M	4	3																								
SR3	4/5/2017	Mid-Ebb	Rainy	Moderate	8:10	8	B	7	1	<1																							
SR3	4/5/2017	Mid-Ebb	Rainy	Moderate	8:10	8	B	7	2	1																							
SR3	4/5/2017	Mid-Ebb	Rainy	Moderate	8:10	8	B	7	3																								

Impact Monitoring Data

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	Laboratory Analysis																							
										Total Suspended Solids (mg/L)			Ammonia Nitrogen (mg/L-N)			UIA (mg/L-N)			TIN-Ammonia (mg/L-N)	TIN-Nitrate (mg/L-N)	TIN-Nitrite (mg/L-N)	Total Inorganic Nitrogen (mg/L-N)			E.coli (cfu/100mL)			Synthetic Detergent (mg/L)			BOD <sub>5</sub> (mg/L)		
										Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Value	Value	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.
SR4	4/5/2017	Mid-Ebb	Rainy	Moderate	7:55	4	S	1	1	2	2	0.18	0.17	0.18	0.005	0.005	0.005	NA	NA	NA	NA	NA	160	179	233	NA	NA	NA	1	1	1		
SR4	4/5/2017	Mid-Ebb	Rainy	Moderate	7:55	4	S	1	2	2		0.18	0.17	0.18	0.005	0.005	0.005	NA	NA	NA	NA	NA	200	200	233	NA	NA	NA	1	1	1		
SR4	4/5/2017	Mid-Ebb	Rainy	Moderate	7:55	4	S	1	3	3	NA	0.18	0.17	0.18	0.005	0.005	0.005	NA	NA	NA	NA	NA	NA	NA	233	NA	NA	NA	NA	NA	NA		
SR4	4/5/2017	Mid-Ebb	Rainy	Moderate	7:55	4	M	1	1	1		0.18	0.17	0.18	0.005	0.005	0.005	NA	NA	NA	NA	NA	NA	NA	233	NA	NA	NA	NA	NA	NA		
SR4	4/5/2017	Mid-Ebb	Rainy	Moderate	7:55	4	M	2	2	2	5	0.18	0.17	0.18	0.005	0.005	0.005	NA	NA	NA	NA	NA	280	304	233	NA	NA	NA	<1	2	2		
SR4	4/5/2017	Mid-Ebb	Rainy	Moderate	7:55	4	B	3	3	3		0.18	0.17	0.18	0.005	0.005	0.005	NA	NA	NA	NA	NA	330	304	233	NA	NA	NA	<1	2	2		
SR5	4/5/2017	Mid-Ebb	Rainy	Moderate	8:55	11	S	1	1	2	2	NA	NA	NA	NA	NA	NA	0.18	0.36	0.02	0.56	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR5	4/5/2017	Mid-Ebb	Rainy	Moderate	8:55	11	S	1	2	2		NA	NA	NA	NA	NA	NA	0.16	0.36	0.02	0.54	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR5	4/5/2017	Mid-Ebb	Rainy	Moderate	8:55	11	S	1	3	3	1	NA	NA	NA	NA	NA	NA	0.17	0.36	0.02	0.55	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR5	4/5/2017	Mid-Ebb	Rainy	Moderate	8:55	11	M	5.5	1	1		NA	NA	NA	NA	NA	NA	0.18	0.36	0.02	0.56	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR5	4/5/2017	Mid-Ebb	Rainy	Moderate	8:55	11	M	5.5	2	1	4	NA	NA	NA	NA	NA	NA	0.18	0.36	0.02	0.56	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR5	4/5/2017	Mid-Ebb	Rainy	Moderate	8:55	11	B	10	1	4		NA	NA	NA	NA	NA	NA	0.17	0.36	0.02	0.55	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR5	4/5/2017	Mid-Ebb	Rainy	Moderate	8:55	11	B	10	2	3	4	NA	NA	NA	NA	NA	NA	0.19	0.36	0.02	0.57	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR5	4/5/2017	Mid-Ebb	Rainy	Moderate	8:55	11	B	10	3	3		NA	NA	NA	NA	NA	NA	0.18	0.36	0.02	0.56	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR12	4/5/2017	Mid-Ebb	Rainy	Moderate	7:40	15	S	1	1	1	1	0.18	0.18	0.18	0.005	0.005	0.005	NA	NA	NA	NA	NA	420	399	448	NA	NA	NA	1	1	1		
SR12	4/5/2017	Mid-Ebb	Rainy	Moderate	7:40	15	S	1	2	1		0.18	0.17	0.17	0.004	0.004	0.004	NA	NA	NA	NA	NA	380	399	448	NA	NA	NA	1	1	1		
SR12	4/5/2017	Mid-Ebb	Rainy	Moderate	7:40	15	S	1	3	3	5	0.17	0.17	0.17	0.004	0.004	0.004	NA	NA	NA	NA	NA	450	414	448	NA	NA	NA	1	1	1		
SR12	4/5/2017	Mid-Ebb	Rainy	Moderate	7:40	15	M	7.5	1	5		0.17	0.17	0.17	0.004	0.004	0.004	NA	NA	NA	NA	NA	620	546	448	NA	NA	NA	<1	1	1		
SR12	4/5/2017	Mid-Ebb	Rainy	Moderate	7:40	15	M	7.5	3	3	7	0.13	0.13	0.13	0.003	0.003	0.003	NA	NA	NA	NA	NA	480	546	448	NA	NA	NA	1	1	1		
SR12	4/5/2017	Mid-Ebb	Rainy	Moderate	7:40	15	B	14	1	7		0.13	0.13	0.13	0.003	0.003	0.003	NA	NA	NA	NA	NA	480	546	448	NA	NA	NA	1	1	1		
SR12	4/5/2017	Mid-Ebb	Rainy	Moderate	7:40	15	B	14	3	3	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR13	4/5/2017	Mid-Ebb	Rainy	Moderate	7:20	14	S	1	1	4		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR13	4/5/2017	Mid-Ebb	Rainy	Moderate	7:20	14	S	1	2	6	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR13	4/5/2017	Mid-Ebb	Rainy	Moderate	7:20	14	S	1	3	3		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR13	4/5/2017	Mid-Ebb	Rainy	Moderate	7:20	14	M	7	1	7	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR13	4/5/2017	Mid-Ebb	Rainy	Moderate	7:20	14	M	7	2	9		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR13	4/5/2017	Mid-Ebb	Rainy	Moderate	7:20	14	B	13	1	4	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR13	4/5/2017	Mid-Ebb	Rainy	Moderate	7:20	14	B	13	2	3		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR13	4/5/2017	Mid-Ebb	Rainy	Moderate	7:20	14	B	13	3	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	

Note: 1. Depth Ave.: (Except E.coli) "Depth-averaged" is calculated by taking the arithmetic means for the reading of the surface, middle and bottom depths  
 2. ND: Not Detected  
 3. Depth Averaged of E.coli is calculated by taking geometric mean of the readings of the surface, middle and bottom, all ND sample results (<1) for E.coli is regarded as 1 in calculating the geometric mean.







Impact Monitoring Data

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	Laboratory Analysis																											
										Total Suspended Solids (mg/L)			Ammonia Nitrogen (mg/L-N)			UIA (mg/L-N)			TIN-Ammonia (mg/L-N)	TIN-Nitrate (mg/L-N)	TIN-Nitrite (mg/L-N)	Total Inorganic Nitrogen (mg/L-N)			E.coli (cfu/100mL)			Synthetic Detergent (mg/L)			BOD <sub>5</sub> (mg/L)						
										Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Value	Value	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.				
SR4	6/5/2017	Mid-Flood	Cloudy	Moderate	14:02	4	S	1	1	4	4	0.21	0.22	0.19	0.006	0.006	0.005	NA	NA	NA	NA	NA	180	212	186	NA	NA	NA	<1	<1	1	1					
SR4	6/5/2017	Mid-Flood	Cloudy	Moderate	14:02	4	S	1	2	4		0.16	0.16	0.19	0.005	0.005	0.005	NA	NA	NA	NA	NA	140	163	186	NA	NA	NA	<1	<1	1						
SR4	6/5/2017	Mid-Flood	Cloudy	Moderate	14:02	4	S	1	3	3		NA	NA	0.19	NA	NA	0.005	NA	NA	NA	NA	NA	NA	NA	186	NA	NA	NA	NA	NA	NA		NA				
SR4	6/5/2017	Mid-Flood	Cloudy	Moderate	14:02	4	M	1	1	3		NA	NA	0.19	NA	NA	0.005	NA	NA	NA	NA	NA	NA	NA	186	NA	NA	NA	NA	NA	NA		NA				
SR4	6/5/2017	Mid-Flood	Cloudy	Moderate	14:02	4	M	4	1	3	4	0.16	0.16	0.19	0.005	0.005	0.005	NA	NA	NA	NA	NA	140	163	186	NA	NA	NA	<1	<1	1	1					
SR4	6/5/2017	Mid-Flood	Cloudy	Moderate	14:02	4	B	4	2	5		NA	NA	0.19	NA	NA	0.005	NA	NA	NA	NA	NA	140	163	186	NA	NA	NA	<1	<1	1						
SR4	6/5/2017	Mid-Flood	Cloudy	Moderate	14:02	4	B	4	3	3		NA	NA	0.19	NA	NA	0.005	NA	NA	NA	NA	NA	140	163	186	NA	NA	NA	<1	<1	1						
SR4	6/5/2017	Mid-Flood	Cloudy	Moderate	14:02	4	B	4	3	3		NA	NA	0.19	NA	NA	0.005	NA	NA	NA	NA	NA	140	163	186	NA	NA	NA	<1	<1	1						
SR5	6/5/2017	Mid-Flood	Cloudy	Moderate	12:50	11	S	1	1	5	4	NA	NA	NA	NA	NA	NA	0.14	0.86	0.05	1.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA					
SR5	6/5/2017	Mid-Flood	Cloudy	Moderate	12:50	11	S	1	2	3		NA	NA	NA	NA	NA	NA	0.13	0.86	0.05	1.04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA				
SR5	6/5/2017	Mid-Flood	Cloudy	Moderate	12:50	11	S	1	3	3		NA	NA	NA	NA	NA	NA	0.17	0.86	0.05	1.08	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SR5	6/5/2017	Mid-Flood	Cloudy	Moderate	12:50	11	M	5	1	3		NA	NA	NA	NA	NA	NA	0.16	0.89	0.05	1.10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SR5	6/5/2017	Mid-Flood	Cloudy	Moderate	12:50	11	M	5	2	3	3	NA	NA	NA	NA	NA	NA	0.14	0.89	0.05	1.08	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR5	6/5/2017	Mid-Flood	Cloudy	Moderate	12:50	11	M	5	3	3		NA	NA	NA	NA	NA	NA	0.15	0.89	0.05	1.09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR5	6/5/2017	Mid-Flood	Cloudy	Moderate	12:50	11	B	10	1	4		NA	NA	NA	NA	NA	NA	0.20	0.79	0.04	1.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR5	6/5/2017	Mid-Flood	Cloudy	Moderate	12:50	11	B	10	2	3		4	NA	NA	NA	NA	NA	0.22	0.79	0.04	1.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR5	6/5/2017	Mid-Flood	Cloudy	Moderate	12:50	11	B	10	3	3	4	NA	NA	NA	NA	NA	0.22	0.79	0.04	1.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR12	6/5/2017	Mid-Flood	Cloudy	Moderate	14:28	15	S	1	1	3	4	0.18	0.18	0.28	0.005	0.005	0.007	NA	NA	NA	NA	NA	960	914	869	NA	NA	NA	<1	<1	1	1					
SR12	6/5/2017	Mid-Flood	Cloudy	Moderate	14:28	15	S	1	2	4		0.17	0.18	0.28	0.005	0.005	0.007	NA	NA	NA	NA	NA	870	914	869	NA	NA	NA	<1	<1	1						
SR12	6/5/2017	Mid-Flood	Cloudy	Moderate	14:28	15	S	1	3	3		0.21	0.21	0.28	0.006	0.005	0.007	NA	NA	NA	NA	NA	860	808	869	NA	NA	NA	<1	<1	1						
SR12	6/5/2017	Mid-Flood	Cloudy	Moderate	14:28	15	M	7	1	4		0.20	0.21	0.28	0.005	0.005	0.007	NA	NA	NA	NA	NA	760	808	869	NA	NA	NA	<1	<1	1						
SR12	6/5/2017	Mid-Flood	Cloudy	Moderate	14:28	15	M	7	3	3	4	0.46	0.46	0.28	0.012	0.011	0.011	NA	NA	NA	NA	NA	930	889	869	NA	NA	NA	<1	<1	1	1					
SR12	6/5/2017	Mid-Flood	Cloudy	Moderate	14:28	15	B	14	1	4		0.45	0.46	0.28	0.011	0.011	0.011	NA	NA	NA	NA	NA	850	889	869	NA	NA	NA	<1	<1	1						
SR12	6/5/2017	Mid-Flood	Cloudy	Moderate	14:28	15	B	14	3	3		NA	NA	0.28	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	869	NA	NA	NA	NA	NA	NA		NA	NA			
SR12	6/5/2017	Mid-Flood	Cloudy	Moderate	14:28	15	B	14	3	3		NA	NA	0.28	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	869	NA	NA	NA	NA	NA	NA		NA	NA	NA		
SR13	6/5/2017	Mid-Flood	Cloudy	Moderate	14:43	14	S	1	1	4	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SR13	6/5/2017	Mid-Flood	Cloudy	Moderate	14:43	14	S	1	2	3		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR13	6/5/2017	Mid-Flood	Cloudy	Moderate	14:43	14	S	1	3	3		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR13	6/5/2017	Mid-Flood	Cloudy	Moderate	14:43	14	M	7	1	8		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR13	6/5/2017	Mid-Flood	Cloudy	Moderate	14:43	14	M	7	2	6	7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR13	6/5/2017	Mid-Flood	Cloudy	Moderate	14:43	14	M	7	3	3		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR13	6/5/2017	Mid-Flood	Cloudy	Moderate	14:43	14	B	13	1	6		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR13	6/5/2017	Mid-Flood	Cloudy	Moderate	14:43	14	B	13	2	8		7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR13	6/5/2017	Mid-Flood	Cloudy	Moderate	14:43	14	B	13	3	3	7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	

Note: 1. Depth Ave.: (Except E.coli) "Depth-averaged" is calculated by taking the arithmetic means for the reading of the surface, middle and bottom depths  
 2. ND: Not Detected  
 3. Depth Averaged of E.coli is calculated by taking geometric mean of the readings of the surface, middle and bottom, all ND sample results (<1) for E.coli is regarded as 1 in calculating the geometric mean.









## Impact Monitoring Data

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	Laboratory Analysis																												
										Total Suspended Solids (mg/L)			Ammonia Nitrogen (mg/L-N)			UIA (mg/L-N)			TIN-Ammonia (mg/L-N)	TIN-Nitrate (mg/L-N)	TIN-Nitrite (mg/L-N)	Total Inorganic Nitrogen (mg/L-N)			E.coli (cfu/100mL)			Synthetic Detergent (mg/L)			BOD <sub>5</sub> (mg/L)							
										Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Value	Value	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.					
SR4	6/5/2017	Mid-Ebb	Cloudy	Moderate	10:15	4	S	1	1	3	3	0.17	0.17	0.18	0.17	0.005	0.005	0.004	NA	NA	NA	NA	NA	NA	68	79	73	NA	NA	NA	<1	<1	1	1				
SR4	6/5/2017	Mid-Ebb	Cloudy	Moderate	10:15	4	S	1	2	2			0.18	0.18		0.004	0.004		NA	NA	NA	NA	NA		NA	NA	NA	95	110	102	NA	NA	NA		<1	<1	1	
SR4	6/5/2017	Mid-Ebb	Cloudy	Moderate	10:15	4	M	1	1	1			NA	NA		NA	NA		NA	NA	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA		NA	NA	NA	NA
SR4	6/5/2017	Mid-Ebb	Cloudy	Moderate	10:15	4	M	2	2	2	NA	3	NA	NA	0.17	NA	NA	0.004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA				
SR4	6/5/2017	Mid-Ebb	Cloudy	Moderate	10:15	4	M	3	3	3			0.15	0.16		0.004	0.004		NA	NA	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR4	6/5/2017	Mid-Ebb	Cloudy	Moderate	10:15	4	B	3	2	3			0.16	0.16		0.004	0.004		NA	NA	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR5	6/5/2017	Mid-Ebb	Cloudy	Moderate	12:00	11	S	1	1	5	5	5	NA	NA	NA	NA	NA	NA	0.13	0.86	0.05	1.04	1.03	1.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA				
SR5	6/5/2017	Mid-Ebb	Cloudy	Moderate	12:00	11	S	1	2	5			NA	NA		NA	NA		NA	NA	NA	0.12	0.86		0.05	1.03	1.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR5	6/5/2017	Mid-Ebb	Cloudy	Moderate	12:00	11	S	1	3	3			NA	NA		NA	NA		NA	NA	NA	0.13	0.86		0.04	1.03	1.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR5	6/5/2017	Mid-Ebb	Cloudy	Moderate	12:00	11	M	5	1	4	5	5	NA	NA	NA	NA	NA	NA	0.15	0.89	0.05	1.09	1.08	1.08	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA				
SR5	6/5/2017	Mid-Ebb	Cloudy	Moderate	12:00	11	M	5	2	6			NA	NA		NA	NA		NA	NA	NA	0.11	0.89		0.04	1.04	1.08	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR5	6/5/2017	Mid-Ebb	Cloudy	Moderate	12:00	11	M	5	3	3			NA	NA		NA	NA		NA	NA	NA	0.16	0.89		0.05	1.10	1.01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR5	6/5/2017	Mid-Ebb	Cloudy	Moderate	12:00	11	B	10	1	4	4	4	NA	NA	NA	NA	NA	NA	0.18	0.79	0.04	1.01	1.01	1.01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA				
SR5	6/5/2017	Mid-Ebb	Cloudy	Moderate	12:00	11	B	10	2	4			NA	NA		NA	NA		NA	NA	NA	0.19	0.79		0.04	1.02	1.02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR5	6/5/2017	Mid-Ebb	Cloudy	Moderate	12:00	11	B	10	3	3			NA	NA		NA	NA		NA	NA	NA	0.18	0.79		0.04	1.01	1.01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR12	6/5/2017	Mid-Ebb	Cloudy	Moderate	9:48	15	S	1	1	5	6	5	0.17	0.18	0.28	0.005	0.005	0.007	NA	NA	NA	NA	NA	NA	470	680	565	NA	NA	NA	<1	<1	1	1				
SR12	6/5/2017	Mid-Ebb	Cloudy	Moderate	9:48	15	S	1	2	6			0.21	0.21		0.006	0.006		NA	NA	NA	NA	NA		NA	NA	NA	NA	580	390	476	NA	NA		NA	<1	<1	1
SR12	6/5/2017	Mid-Ebb	Cloudy	Moderate	9:48	15	M	7	1	6			0.21	0.21		0.006	0.006		NA	NA	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA		NA	NA	NA	NA
SR12	6/5/2017	Mid-Ebb	Cloudy	Moderate	9:48	15	M	7	2	4	4	4	NA	NA	0.28	0.011	0.011	0.011	NA	NA	NA	NA	NA	NA	420	620	510	NA	NA	NA	<1	<1	1	1				
SR12	6/5/2017	Mid-Ebb	Cloudy	Moderate	9:48	15	B	14	1	4			0.44	0.47		0.011	0.011		NA	NA	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA		NA	NA	NA	NA
SR12	6/5/2017	Mid-Ebb	Cloudy	Moderate	9:48	15	B	14	2	4			0.47	0.46		0.012	0.012		NA	NA	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA		NA	NA	NA	NA
SR12	6/5/2017	Mid-Ebb	Cloudy	Moderate	9:21	14	S	1	1	5	6	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA				
SR13	6/5/2017	Mid-Ebb	Cloudy	Moderate	9:21	14	S	1	2	7			NA	NA		NA	NA		NA	NA	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR13	6/5/2017	Mid-Ebb	Cloudy	Moderate	9:21	14	S	1	3	3			NA	NA		NA	NA		NA	NA	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR13	6/5/2017	Mid-Ebb	Cloudy	Moderate	9:21	14	M	7	1	4	5	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA				
SR13	6/5/2017	Mid-Ebb	Cloudy	Moderate	9:21	14	M	7	2	6			NA	NA		NA	NA		NA	NA	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR13	6/5/2017	Mid-Ebb	Cloudy	Moderate	9:21	14	M	7	3	3			NA	NA		NA	NA		NA	NA	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR13	6/5/2017	Mid-Ebb	Cloudy	Moderate	9:21	14	B	13	1	4	4	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA				
SR13	6/5/2017	Mid-Ebb	Cloudy	Moderate	9:21	14	B	13	2	4			NA	NA		NA	NA		NA	NA	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR13	6/5/2017	Mid-Ebb	Cloudy	Moderate	9:21	14	B	13	3	3			NA	NA		NA	NA		NA	NA	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	

Note: 1. Depth Ave.: (Except E.coli) "Depth-averaged" is calculated by taking the arithmetic means for the reading of the surface, middle and bottom depths  
 2. ND: Not Detected  
 3. Depth Averaged of E.coli is calculated by taking geometric mean of the readings of the surface, middle and bottom, all ND sample results (<1) for E.coli is regarded as 1 in calculating the geometric mean.

























Impact Monitoring Data

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	Laboratory Analysis																							
										Total Suspended Solids (mg/L)			Ammonia Nitrogen (mg/L-N)			UIA (mg/L-N)			TIN-Ammonia (mg/L-N)	TIN-Nitrate (mg/L-N)	TIN-Nitrite (mg/L-N)	Total Inorganic Nitrogen (mg/L-N)			E.coli (cfu/100mL)			Synthetic Detergent (mg/L)			BOD <sub>5</sub> (mg/L)		
										Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Value	Value	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.
SR4	11/5/2017	Mid-Flood	Fine	Smooth	8:07	4	S	1	1	4																							
SR4	11/5/2017	Mid-Flood	Fine	Smooth	8:07	4	S	1	2	6	5	0.11	0.11	0.11	0.003	0.003	0.003	NA	NA	NA	NA	NA	NA	ND	ND	1	NA	NA	NA	1	1	1	
SR4	11/5/2017	Mid-Flood	Fine	Smooth	8:07	4	S	1	3																								
SR4	11/5/2017	Mid-Flood	Fine	Smooth	8:07	4	M			1	NA																						
SR4	11/5/2017	Mid-Flood	Fine	Smooth	8:07	4	M			2																							
SR4	11/5/2017	Mid-Flood	Fine	Smooth	8:07	4	M			3																							
SR4	11/5/2017	Mid-Flood	Fine	Smooth	8:07	4	B			3	1	4																					
SR4	11/5/2017	Mid-Flood	Fine	Smooth	8:07	4	B			3	2	6																					
SR4	11/5/2017	Mid-Flood	Fine	Smooth	8:07	4	B			3	3	3																					
SR5	11/5/2017	Mid-Flood	Fine	Smooth	9:08	11	S			1	1	5																					
SR5	11/5/2017	Mid-Flood	Fine	Smooth	9:08	11	S			1	2	3	4																				
SR5	11/5/2017	Mid-Flood	Fine	Smooth	9:08	11	S			1	3																						
SR5	11/5/2017	Mid-Flood	Fine	Smooth	9:08	11	M			5.5	1	5																					
SR5	11/5/2017	Mid-Flood	Fine	Smooth	9:08	11	M			5.5	2	6	6																				
SR5	11/5/2017	Mid-Flood	Fine	Smooth	9:08	11	M			5.5	3																						
SR5	11/5/2017	Mid-Flood	Fine	Smooth	9:08	11	B			10	1	4																					
SR5	11/5/2017	Mid-Flood	Fine	Smooth	9:08	11	B			10	2	6	5																				
SR5	11/5/2017	Mid-Flood	Fine	Smooth	9:08	11	B			10	3																						
SR12	11/5/2017	Mid-Flood	Fine	Moderate	7:42	15	S			1	1	3																					
SR12	11/5/2017	Mid-Flood	Fine	Moderate	7:42	15	S			1	2	5																					
SR12	11/5/2017	Mid-Flood	Fine	Moderate	7:42	15	S			1	3																						
SR12	11/5/2017	Mid-Flood	Fine	Moderate	7:42	15	M			7.5	1	8																					
SR12	11/5/2017	Mid-Flood	Fine	Moderate	7:42	15	M			7.5	2	9	9																				
SR12	11/5/2017	Mid-Flood	Fine	Moderate	7:42	15	M			7.5	3																						
SR12	11/5/2017	Mid-Flood	Fine	Moderate	7:42	15	B			14	1	6																					
SR12	11/5/2017	Mid-Flood	Fine	Moderate	7:42	15	B			14	2	7	7																				
SR12	11/5/2017	Mid-Flood	Fine	Moderate	7:42	15	B			14	3																						
SR13	11/5/2017	Mid-Flood	Fine	Moderate	7:22	14	S			1	1	6																					
SR13	11/5/2017	Mid-Flood	Fine	Moderate	7:22	14	S			1	2	8																					
SR13	11/5/2017	Mid-Flood	Fine	Moderate	7:22	14	S			1	3																						
SR13	11/5/2017	Mid-Flood	Fine	Moderate	7:22	14	M			7	1	4																					
SR13	11/5/2017	Mid-Flood	Fine	Moderate	7:22	14	M			7	2	6	5																				
SR13	11/5/2017	Mid-Flood	Fine	Moderate	7:22	14	M			7	3																						
SR13	11/5/2017	Mid-Flood	Fine	Moderate	7:22	14	B			13	1	4																					
SR13	11/5/2017	Mid-Flood	Fine	Moderate	7:22	14	B			13	2	4	4																				
SR13	11/5/2017	Mid-Flood	Fine	Moderate	7:22	14	B			13	3																						

Note: 1. Depth Ave.: (Except E.coli) "Depth-averaged" is calculated by taking the arithmetic means for the reading of the surface, middle and bottom depths  
 2. ND: Not Detected  
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Impact Monitoring Data

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	Laboratory Analysis																							
										Total Suspended Solids (mg/L)			Ammonia Nitrogen (mg/L-N)			UIA (mg/L-N)			TIN-Ammonia (mg/L-N)	TIN-Nitrate (mg/L-N)	TIN-Nitrite (mg/L-N)	Total Inorganic Nitrogen (mg/L-N)			E.coli (cfu/100mL)			Synthetic Detergent (mg/L)			BOD <sub>5</sub> (mg/L)		
										Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Value	Value	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.
SR4	11/5/2017	Mid-Ebb	Fine	Smooth	11:00	4	S	1	1	2	2	0.11	0.10	0.11	0.004	0.004	0.004	NA	NA	NA	NA	NA	31	46	38	NA	NA	NA	<1	<1	1	1	
SR4	11/5/2017	Mid-Ebb	Fine	Smooth	11:00	4	S	1	2	2		NA	NA	NA		NA		NA	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA		NA
SR4	11/5/2017	Mid-Ebb	Fine	Smooth	11:00	4	S	1	3		NA			NA	0.003		NA	NA	NA	NA	NA			NA	35	NA	NA	NA	NA	NA	NA	1	
SR4	11/5/2017	Mid-Ebb	Fine	Smooth	11:00	4	M		1			0.10	NA	0.10		0.003	0.003	NA	NA	NA		NA	NA	NA	38	29	33	NA	NA	NA	<1	<1	1
SR4	11/5/2017	Mid-Ebb	Fine	Smooth	11:00	4	M		2		3			NA	0.003		NA	NA	NA	NA	NA			NA	35	NA	NA	NA	NA	NA	NA	1	
SR4	11/5/2017	Mid-Ebb	Fine	Smooth	11:00	4	M		3			0.10	NA	0.10		0.003	0.003	NA	NA	NA		NA	NA	NA	38	29	33	NA	NA	NA	<1	<1	1
SR4	11/5/2017	Mid-Ebb	Fine	Smooth	11:00	4	B	3	1	3	3	0.10	0.09	0.10	0.003	0.003	NA	NA	NA	NA	NA	38	29	33	NA	NA	NA	<1	<1	1	1		
SR4	11/5/2017	Mid-Ebb	Fine	Smooth	11:00	4	B	3	2	2		NA	NA	NA		NA	NA	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA		NA	NA
SR5	11/5/2017	Mid-Ebb	Fine	Smooth	9:48	11	S	1	1	3	3	NA	NA	NA	0.70	0.08	0.59	0.03	0.70	0.70	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR5	11/5/2017	Mid-Ebb	Fine	Smooth	9:48	11	S	1	2	3		NA	NA	NA		NA	NA	0.09	0.58		0.03	0.70	0.64	0.65	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR5	11/5/2017	Mid-Ebb	Fine	Smooth	9:48	11	S	1	3		3			NA	0.64	0.09	0.59	0.03	0.71	0.64	0.65			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR5	11/5/2017	Mid-Ebb	Fine	Smooth	9:48	11	M	5.5	1	3		NA	NA	NA		NA	NA	0.08	0.53		0.03	0.64	0.64	0.65	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR5	11/5/2017	Mid-Ebb	Fine	Smooth	9:48	11	M	5.5	2	2	3	NA	NA	NA	0.64	0.08	0.54	0.03	0.65	0.64	0.65	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR5	11/5/2017	Mid-Ebb	Fine	Smooth	9:48	11	M	5.5	3			NA	NA	NA		NA	NA	0.07	0.52		0.03	0.62	0.64	0.65	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR5	11/5/2017	Mid-Ebb	Fine	Smooth	9:48	11	B	10	1	2	2	NA	NA	NA	0.60	0.10	0.50	0.02	0.62	0.60	0.60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR5	11/5/2017	Mid-Ebb	Fine	Smooth	9:48	11	B	10	2	2		NA	NA	NA		NA	NA	0.08	0.50		0.02	0.60	0.60	0.60	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR5	11/5/2017	Mid-Ebb	Fine	Smooth	9:48	11	B	10	3		2			NA	0.60	0.09	0.48	0.02	0.59	0.60	0.60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR5	11/5/2017	Mid-Ebb	Fine	Smooth	9:48	11	B	10	3			NA	NA	NA		NA	NA	0.08	0.50		0.02	0.60	0.60	0.60	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR12	11/5/2017	Mid-Ebb	Fine	Smooth	11:24	15	S	1	1	3	4	0.12	0.10	0.11	0.004	0.004	NA	NA	NA	NA	NA	170	230	198	NA	NA	NA	1	1	1	1		
SR12	11/5/2017	Mid-Ebb	Fine	Smooth	11:24	15	S	1	2	4		0.11	0.12	0.12		0.004	0.004	NA	NA	NA		NA	NA	NA	86	94	90	NA	NA	NA		<1	<1
SR12	11/5/2017	Mid-Ebb	Fine	Smooth	11:24	15	M	7.5	1	5	5	0.11	0.12	0.12	0.004	0.004	NA	NA	NA	NA	NA			NA	135	NA	NA	NA	NA	NA	1		
SR12	11/5/2017	Mid-Ebb	Fine	Smooth	11:24	15	M	7.5	2	4		0.12	0.12	0.12		0.004	0.004	NA	NA	NA		NA	NA	NA			NA	135	NA	NA	NA	NA	NA
SR12	11/5/2017	Mid-Ebb	Fine	Smooth	11:24	15	M	7.5	3		3	0.12	0.12	0.12	0.004	0.004	NA	NA	NA	NA	NA	120	160	139	NA	NA	NA	1	1	1	1		
SR12	11/5/2017	Mid-Ebb	Fine	Smooth	11:24	15	B	14	1	3		0.12	0.12	0.12		0.004	0.004	NA	NA	NA		NA	NA	NA			NA	139	NA	NA		NA	NA
SR12	11/5/2017	Mid-Ebb	Fine	Smooth	11:24	15	B	14	3		4			NA	0.004		NA	NA	NA	NA	NA			NA	135	NA	NA	NA	NA	NA	NA	NA	
SR12	11/5/2017	Mid-Ebb	Fine	Smooth	11:24	15	S	1	1	4		NA	NA	NA		NA	NA	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR13	11/5/2017	Mid-Ebb	Fine	Smooth	11:42	14	S	1	2	4	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR13	11/5/2017	Mid-Ebb	Fine	Smooth	11:42	14	S	1	3			NA	NA	NA		NA	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR13	11/5/2017	Mid-Ebb	Fine	Smooth	11:42	14	M	7	1	3	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR13	11/5/2017	Mid-Ebb	Fine	Smooth	11:42	14	M	7	2	5		NA	NA	NA		NA	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR13	11/5/2017	Mid-Ebb	Fine	Smooth	11:42	14	M	7	3		3			NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR13	11/5/2017	Mid-Ebb	Fine	Smooth	11:42	14	B	13	1	3		NA	NA	NA		NA	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR13	11/5/2017	Mid-Ebb	Fine	Smooth	11:42	14	B	13	2	3	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR13	11/5/2017	Mid-Ebb	Fine	Smooth	11:42	14	B	13	3			NA	NA	NA		NA	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR13	11/5/2017	Mid-Ebb	Fine	Smooth	11:42	14	B	13	3		3			NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR13	11/5/2017	Mid-Ebb	Fine	Smooth	11:42	14	B	13	3			NA	NA	NA		NA	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Note: 1. Depth Ave.: (Except E.coli) "Depth-averaged" is calculated by taking the arithmetic means for the reading of the surface, middle and bottom depths  
 2. ND: Not Detected  
 3. Depth Averaged of E.coli is calculated by taking geometric mean of the readings of the surface, middle and bottom, all ND sample results (<1) for E.coli is regarded as 1 in calculating the geometric mean.





Impact Monitoring Data

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	Laboratory Analysis																																			
										Total Suspended Solids (mg/L)			Ammonia Nitrogen (mg/L-N)			UIA (mg/L-N)			TIN-Ammonia (mg/L-N)	TIN-Nitrate (mg/L-N)	TIN-Nitrite (mg/L-N)	Total Inorganic Nitrogen (mg/L-N)			E.coli (cfu/100mL)			Synthetic Detergent (mg/L)			BOD <sub>5</sub> (mg/L)														
										Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Value	Value	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.												
C1A	13/5/2017	Mid-Flood	Cloudy	Moderate	8:35	28	S	1	1	13	13	0.15	0.15	0.13	0.014	0.014	0.013	0.15	0.51	0.03	0.69	0.69	360	407	551	NA	NA	NA	<1	<1	1	1													
C1A	13/5/2017	Mid-Flood	Cloudy	Moderate	8:35	28	S	1	2	12																0.14	0.14	0.13	0.012	0.012	0.013		0.14	0.52	0.03	0.69	550	598	NA	NA	NA	<1	<1		
C1A	13/5/2017	Mid-Flood	Cloudy	Moderate	8:35	28	M	14	1	15																0.13	0.14	0.13	0.012	0.012	0.013		0.14	0.52	0.04	0.70	650	686	NA	NA	NA	<1	<1		
C1A	13/5/2017	Mid-Flood	Cloudy	Moderate	8:35	28	M	14	2	13	14	0.11	0.10	0.10	0.015	0.014	0.013	0.11	0.64	0.04	0.79	0.78	570	604	597	NA	NA	NA	<1	<1	1	1													
C1A	13/5/2017	Mid-Flood	Cloudy	Moderate	8:35	28	B	27	1	6																0.09	0.10	0.09	0.012	0.012	0.013		0.09	0.65	0.04	0.78	620	686	NA	NA	NA	<1	<1		
C1A	13/5/2017	Mid-Flood	Cloudy	Moderate	8:35	28	B	27	3	4																0.50	0.46	0.40	0.010	0.009	0.008		0.50	0.42	0.03	0.95	640	695	NA	NA	NA	<1	<1		
C2A	13/5/2017	Mid-Flood	Cloudy	Moderate	6:54	13	S	1	1	11	10	0.37	0.38	0.40	0.008	0.008	0.008	0.37	0.42	0.03	0.82	0.82	570	604	597	NA	NA	NA	<1	<1	1	1													
C2A	13/5/2017	Mid-Flood	Cloudy	Moderate	6:54	13	M	6.5	1	5																0.008	0.008	0.008	0.37	0.42	0.03		0.82	0.82	0.82	0.82	640	695	NA	NA	NA	<1	<1		
C2A	13/5/2017	Mid-Flood	Cloudy	Moderate	6:54	13	M	6.5	2	7																0.38	0.37	0.40	0.008	0.008	0.008		0.38	0.43	0.03	0.84	670	695	NA	NA	NA	<1	<1		
C2A	13/5/2017	Mid-Flood	Cloudy	Moderate	6:54	13	B	12	1	11	10	0.35	0.37	0.40	0.007	0.008	0.008	0.35	0.42	0.03	0.80	0.82	570	604	597	NA	NA	NA	<1	<1	1	1													
C2A	13/5/2017	Mid-Flood	Cloudy	Moderate	6:54	13	B	12	2	9																0.38	0.37	0.40	0.007	0.008	0.008		0.38	0.42	0.03	0.80	720	695	NA	NA	NA	<1	<1		
C2A	13/5/2017	Mid-Flood	Cloudy	Moderate	6:54	13	B	12	3	9																NA	NA	NA	NA	NA	NA		0.15	0.43	0.03	0.61	NA	NA	NA	NA	NA	NA	NA	NA	NA
G2	13/5/2017	Mid-Flood	Cloudy	Moderate	7:49	12	S	1	1	8	9	NA	NA	NA	NA	NA	NA	0.16	0.42	0.03	0.61	0.61	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA													
G2	13/5/2017	Mid-Flood	Cloudy	Moderate	7:49	12	S	1	2	10																NA	NA	NA	NA	NA	NA		0.14	0.43	0.03	0.60	NA	NA	NA	NA	NA	NA	NA	NA	NA
G2	13/5/2017	Mid-Flood	Cloudy	Moderate	7:49	12	M	6	1	7																NA	NA	NA	NA	NA	NA		0.14	0.43	0.03	0.60	NA	NA	NA	NA	NA	NA	NA	NA	NA
G2	13/5/2017	Mid-Flood	Cloudy	Moderate	7:49	12	M	6	2	9	8	NA	NA	NA	NA	NA	NA	0.16	0.43	0.03	0.62	0.62	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA													
G2	13/5/2017	Mid-Flood	Cloudy	Moderate	7:49	12	M	6	3	8																NA	NA	NA	NA	NA	NA		0.16	0.43	0.03	0.62	NA	NA	NA	NA	NA	NA	NA	NA	NA
G2	13/5/2017	Mid-Flood	Cloudy	Moderate	7:49	12	B	11	1	7																NA	NA	NA	NA	NA	NA		0.16	0.43	0.03	0.62	NA	NA	NA	NA	NA	NA	NA	NA	NA
G2	13/5/2017	Mid-Flood	Cloudy	Moderate	7:49	12	B	11	2	5	6	NA	NA	NA	NA	NA	NA	0.15	0.43	0.03	0.61	0.62	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA													
G2	13/5/2017	Mid-Flood	Cloudy	Moderate	7:49	12	B	11	3	6																NA	NA	NA	NA	NA	NA		0.16	0.43	0.03	0.62	NA	NA	NA	NA	NA	NA	NA	NA	NA
G2	13/5/2017	Mid-Flood	Cloudy	Moderate	7:49	12	B	11	3	6																NA	NA	NA	NA	NA	NA		0.16	0.43	0.03	0.62	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR2	13/5/2017	Mid-Flood	Cloudy	Moderate	8:05	9	S	1	1	4	5	0.15	0.16	0.16	0.010	0.009	0.012	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA													
SR2	13/5/2017	Mid-Flood	Cloudy	Moderate	8:05	9	S	1	2	5																0.15	0.16	0.16	0.014	0.014	0.012		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR2	13/5/2017	Mid-Flood	Cloudy	Moderate	8:05	9	S	1	3	6																0.17	0.16	0.16	0.015	0.014	0.012		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR2	13/5/2017	Mid-Flood	Cloudy	Moderate	8:05	9	M	4.5	1	6	7	0.17	0.16	0.16	0.012	0.011	0.011	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA													
SR2	13/5/2017	Mid-Flood	Cloudy	Moderate	8:05	9	B	8	1	7																0.012	0.011	0.011	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR2	13/5/2017	Mid-Flood	Cloudy	Moderate	8:05	9	B	8	2	4																0.010	0.011	0.011	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR2	13/5/2017	Mid-Flood	Cloudy	Moderate	8:05	9	B	8	3	3	6	0.17	0.16	0.16	0.009	0.008	0.008	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA													
SR2	13/5/2017	Mid-Flood	Cloudy	Moderate	8:05	9	S	1	1	4																0.009	0.008	0.008	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR2	13/5/2017	Mid-Flood	Cloudy	Moderate	8:05	9	S	1	2	3																0.008	0.008	0.008	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR3	13/5/2017	Mid-Flood	Cloudy	Moderate	7:38	8	S	1	1	4	4	0.16	0.17	0.15	0.009	0.008	0.008	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA													
SR3	13/5/2017	Mid-Flood	Cloudy	Moderate	7:38	8	S	1	2	3																0.008	0.008	0.008	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR3	13/5/2017	Mid-Flood	Cloudy	Moderate	7:38	8	S	1	3	3																0.008	0.008	0.008	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR3	13/5/2017	Mid-Flood	Cloudy	Moderate	7:38	8	M	4	1	5	5	0.16	0.17	0.15	0.008	0.009	0.008	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA													
SR3	13/5/2017	Mid-Flood	Cloudy	Moderate	7:38	8	M	4	2	4																0.008	0.009	0.009	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR3	13/5/2017	Mid-Flood	Cloudy	Moderate	7:38	8	M	4	3	4																0.009	0.009	0.009	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR3	13/5/2017	Mid-Flood	Cloudy	Moderate	7:38	8	B	7	1	6	7	0.13	0.14	0.14	0.007	0.007	0.007	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA													
SR3	13/5/2017	Mid-Flood	Cloudy	Moderate	7:38	8	B	7	2	8																0.007	0.007	0.007	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR3	13/5/2017	Mid-Flood	Cloudy	Moderate	7:38	8	B	7	3	8																0.007	0.007	0.007	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA



Impact Monitoring Data

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement																												
										pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)			Ammonia (mg/L-N)			UIA (mg/L-N)			TIN-Ammonia (mg/L-N)	TIN-Nitrite (mg/L-N)	TIN-Nitrate (mg/L-N)	Total Inorganic Nitrogen (mg/L-N)						
										Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	S & M Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Value	Value	Value	Ave.	Depth Ave.
C1A	13/5/2017	Mid-Ebb	Cloudy	Moderate	10:20	28	S	1	1	8.47																												
C1A	13/5/2017	Mid-Ebb	Cloudy	Moderate	10:20	28	S	1	2	8.46	8.47	28.78	28.78	24.22	24.22	88.7	88.9	88.8	6.95	6.97	6.96	6.98	2.9	2.8	2.9	0.14	0.14	0.14	0.016	0.016	0.14	0.55	0.03	0.72				
C1A	13/5/2017	Mid-Ebb	Cloudy	Moderate	10:20	28	S	1	3																													
C1A	13/5/2017	Mid-Ebb	Cloudy	Moderate	10:20	28	M	14	1	8.50	8.50	28.85	28.86	24.20	24.20	87.5	87.4	87.5	6.99	7.01	7.00	6.98	2.3	2.5	2.4	0.10	0.10	0.10	0.012	0.012	0.10	0.65	0.04	0.79				
C1A	13/5/2017	Mid-Ebb	Cloudy	Moderate	10:20	28	M	14	2	8.49	8.50	28.86	28.86	24.20	24.20	87.4	87.5	87.5	7.01	7.00	7.00	6.98	2.5	2.4	2.4	0.10	0.10	0.11	0.012	0.012	0.10	0.65	0.04	0.79	0.79	0.76		
C1A	13/5/2017	Mid-Ebb	Cloudy	Moderate	10:20	28	M	14	3																													
C1A	13/5/2017	Mid-Ebb	Cloudy	Moderate	10:20	28	B	27	1	8.53	8.53	28.96	28.96	24.15	24.15	86.8	86.7	86.8	6.85	6.86	6.86		1.8	1.9	1.9	0.10	0.10	0.10	0.013	0.013	0.10	0.64	0.04	0.78				
C1A	13/5/2017	Mid-Ebb	Cloudy	Moderate	10:20	28	B	27	2	8.53	8.53	28.96	28.96	24.14	24.15	86.7	86.8	86.8	6.86	6.86	6.86		1.9	1.9	1.9	0.10	0.10	0.10	0.013	0.013	0.10	0.65	0.04	0.79				
C1A	13/5/2017	Mid-Ebb	Cloudy	Moderate	10:20	28	B	27	3																													
C2A	13/5/2017	Mid-Ebb	Cloudy	Moderate	12:14	13	S	1	1	7.68																												
C2A	13/5/2017	Mid-Ebb	Cloudy	Moderate	12:14	13	S	1	2	7.68	7.68	29.77	29.78	25.71	25.71	86.2	86.1	86.2	5.75	5.75	5.75	5.68	1.0	1.1	1.1	0.50	0.50	0.50	0.011	0.011	0.50	0.43	0.03	0.96				
C2A	13/5/2017	Mid-Ebb	Cloudy	Moderate	12:14	13	S	1	3																													
C2A	13/5/2017	Mid-Ebb	Cloudy	Moderate	12:14	13	M	6.5	1	7.74	7.74	29.70	29.70	25.59	25.60	85.4	85.3	85.4	5.61	5.60	5.61		1.8	1.7	1.8	0.40	0.40	0.40	0.010	0.010	0.40	0.43	0.03	0.86				
C2A	13/5/2017	Mid-Ebb	Cloudy	Moderate	12:14	13	M	6.5	2	7.73	7.74	29.69	29.70	25.60	25.60	85.3	85.4	85.4	5.60	5.61	5.61		1.7	1.8	1.8	0.40	0.40	0.45	0.010	0.010	0.40	0.44	0.02	0.86	0.85	0.91		
C2A	13/5/2017	Mid-Ebb	Cloudy	Moderate	12:14	13	M	6.5	3																													
C2A	13/5/2017	Mid-Ebb	Cloudy	Moderate	12:14	13	B	12	1	7.78	7.77	29.62	29.63	25.51	25.52	84.5	84.6	84.5	5.54	5.53	5.54		1.5	1.6	1.6	0.45	0.45	0.45	0.012	0.012	0.45	0.43	0.03	0.91				
C2A	13/5/2017	Mid-Ebb	Cloudy	Moderate	12:14	13	B	12	2	7.76	7.77	29.63	29.63	25.52	25.52	84.6	84.6	84.6	5.53	5.54	5.54		1.6	1.6	1.6	0.45	0.45	0.45	0.012	0.012	0.45	0.43	0.03	0.91				
C2A	13/5/2017	Mid-Ebb	Cloudy	Moderate	12:14	13	B	12	3																													
G2	13/5/2017	Mid-Ebb	Cloudy	Moderate	11:11	12	S	1	1	8.53																												
G2	13/5/2017	Mid-Ebb	Cloudy	Moderate	11:11	12	S	1	2	8.53	8.53	28.95	28.95	25.10	25.10	89.9	90.2	90.1	6.95	6.94	6.95	6.92	1.5	1.5	1.5	NA	NA	NA	NA	NA	0.15	0.45	0.02	0.62				
G2	13/5/2017	Mid-Ebb	Cloudy	Moderate	11:11	12	S	1	3																													
G2	13/5/2017	Mid-Ebb	Cloudy	Moderate	11:11	12	M	6	1	8.55	8.55	29.03	29.03	25.01	25.01	88.3	88.1	88.2	6.88	6.89	6.89		1.2	1.3	1.3	NA	NA	NA	NA	NA	0.17	0.44	0.02	0.63				
G2	13/5/2017	Mid-Ebb	Cloudy	Moderate	11:11	12	M	6	2	8.55	8.55	29.02	29.03	25.00	25.01	88.1	88.2	88.2	6.89	6.89	6.89		1.3	1.3	1.3	NA	NA	NA	NA	NA	0.17	0.44	0.02	0.63				
G2	13/5/2017	Mid-Ebb	Cloudy	Moderate	11:11	12	M	6	3																													
G2	13/5/2017	Mid-Ebb	Cloudy	Moderate	11:11	12	B	11	1	8.56	8.56	29.14	29.15	24.95	24.95	87.5	87.4	87.5	6.80	6.79	6.80		0.8	0.7	0.8	NA	NA	NA	NA	NA	0.15	0.43	0.03	0.61				
G2	13/5/2017	Mid-Ebb	Cloudy	Moderate	11:11	12	B	11	2	8.56	8.56	29.15	29.15	24.95	24.95	87.4	87.5	87.5	6.79	6.80	6.80		0.7	0.8	0.8	NA	NA	NA	NA	NA	0.15	0.43	0.03	0.61				
G2	13/5/2017	Mid-Ebb	Cloudy	Moderate	11:11	12	B	11	3																													
SR2	13/5/2017	Mid-Ebb	Cloudy	Moderate	11:04	9	S	1	1	8.50																												
SR2	13/5/2017	Mid-Ebb	Cloudy	Moderate	11:04	9	S	1	2	8.49	8.50	28.71	28.72	24.23	24.23	89.8	89.7	89.8	7.03	7.02	7.03	6.99	1.5	1.3	1.4	0.15	0.15	0.15	0.018	0.018	0.15	0.45	0.02	0.62				
SR2	13/5/2017	Mid-Ebb	Cloudy	Moderate	11:04	9	S	1	3																													
SR2	13/5/2017	Mid-Ebb	Cloudy	Moderate	11:04	9	M	4.5	1	8.52	8.52	28.83	28.84	24.17	24.17	88.5	88.4	88.5	6.97	6.95	6.96		1.8	1.9	1.9	0.17	0.17	0.17	0.021	0.021	0.17	0.44	0.02	0.63				
SR2	13/5/2017	Mid-Ebb	Cloudy	Moderate	11:04	9	M	4.5	2	8.52	8.52	28.84	28.84	24.16	24.17	88.4	88.5	88.5	6.95	6.95	6.96		1.9	1.9	1.9	0.17	0.17	0.16	0.021	0.021	0.17	0.44	0.02	0.63				
SR2	13/5/2017	Mid-Ebb	Cloudy	Moderate	11:04	9	M	4.5	3																													
SR2	13/5/2017	Mid-Ebb	Cloudy	Moderate	11:04	9	B	8	1	8.54	8.54	28.95	28.95	24.10	24.10	87.7	87.5	87.6	6.89	6.88	6.89		1.0	1.1	1.1	0.17	0.17	0.17	0.022	0.022	0.17	0.44	0.02	0.63				
SR2	13/5/2017	Mid-Ebb	Cloudy	Moderate	11:04	9	B	8	2	8.53	8.54	28.95	28.95	24.10	24.10	87.5	87.6	87.6	6.88	6.88	6.89		1.1	1.1	1.1	0.17	0.17	0.17	0.022	0.022	0.17	0.44	0.02	0.63				
SR2	13/5/2017	Mid-Ebb	Cloudy	Moderate	11:04	9	B	8	3																													
SR3	13/5/2017	Mid-Ebb	Cloudy	Moderate	11:26	8	S	1	1	8.47																												
SR3	13/5/2017	Mid-Ebb	Cloudy	Moderate	11:26	8	S	1	2	8.46	8.47	29.18	29.18	25.04	25.05	88.9	88.7	88.8	7.02	7.03	7.03	6.99	0.9	1.0	1.0	0.15	0.15	0.15	0.018	0.018	0.15	0.45	0.02	0.62				
SR3	13/5/2017	Mid-Ebb	Cloudy	Moderate	11:26	8	S	1	3																													
SR3	13/5/2017	Mid-Ebb	Cloudy	Moderate	11:26	8	M	4	1	8.49	8.49	29.23	29.24	24.95	24.96	87.1	87.2	87.2	6.94	6.95	6.95		0.7	0.8	0.8	0.15	0.15	0.15	0.019	0.019	0.15	0.45	0.02	0.62				
SR3	13/5/2017	Mid-Ebb	Cloudy	Moderate	11:26	8	M	4	2	8.49	8.49	29.24	29.24	24.96	24.96	87.2	87.2	87.2	6.95	6.95	6.95		0.8	0.8	0.8	0.15	0.15	0.15	0.019	0.019	0.15	0.45	0.02	0.62				
SR3	13/5/2017	Mid-Ebb	Cloudy	Moderate	11:26	8	M	4	3																													
SR3	13/5/2017	Mid-Ebb	Cloudy	Moderate	11:26	8	B	7	1	8.52	8.52	29.30	29.30	24.90	24.89	86.6	86.6	86.7	6.88	6.88	6.88		0.5	0.5	0.5	0.14	0.14	0.14	0.018	0.018	0.14	0.45	0.02	0.62				
SR3	13/5/2017	Mid-Ebb	Cloudy	Moderate	11:26	8	B	7	2	8.52	8.52	29.29	29.30	24.88	24.89	86.8	86.8	86.8	6.87	6.87	6.88		0.5	0.5	0.5	0.14	0.14	0.14	0.018	0.018	0.14	0.45	0.02	0.62				
SR3	13/5/2017	Mid-Ebb	Cloudy	Moderate	11:26	8	B	7	3																													







Impact Monitoring Data

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	Laboratory Analysis																											
										Total Suspended Solids (mg/L)			Ammonia Nitrogen (mg/L-N)			UIA (mg/L-N)			TIN-Ammonia (mg/L-N)	TIN-Nitrate (mg/L-N)	TIN-Nitrite (mg/L-N)	Total Inorganic Nitrogen (mg/L-N)			E.coli (cfu/100mL)			Synthetic Detergent (mg/L)			BOD <sub>5</sub> (mg/L)						
										Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Value	Value	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.				
SR4	13/5/2017	Mid-Ebb	Cloudy	Moderate	11:34	4	S	1	1	3	4	0.17	0.17	0.15	0.022	0.022	0.020	NA	NA	NA	NA	NA	62	70	45	NA	NA	NA	<1	<1	1	1					
SR4	13/5/2017	Mid-Ebb	Cloudy	Moderate	11:34	4	S	1	2	4								NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	78	70	45	NA		NA	NA	<1	<1	1
SR4	13/5/2017	Mid-Ebb	Cloudy	Moderate	11:34	4	S	1	3	NA								NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA	NA	<1	<1	1
SR4	13/5/2017	Mid-Ebb	Cloudy	Moderate	11:34	4	M	1	1	1	NA	NA	NA	0.15	NA	0.020	NA	NA	NA	NA	NA	NA	NA	NA	45	NA	NA	NA	NA	NA	NA	NA	1				
SR4	13/5/2017	Mid-Ebb	Cloudy	Moderate	11:34	4	M	2	2	NA							NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	<1	1		
SR4	13/5/2017	Mid-Ebb	Cloudy	Moderate	11:34	4	M	3	3	0.13							0.13	0.018	0.018	NA	NA	NA	NA	NA	NA	NA	NA	23	29	45	NA	NA	NA	<1	<1	1	
SR4	13/5/2017	Mid-Ebb	Cloudy	Moderate	11:34	4	B	3	2	5	5	0.13	0.13	0.15	0.018	0.018	NA	NA	NA	NA	NA	NA	36	29	45	NA	NA	NA	<1	<1	1						
SR4	13/5/2017	Mid-Ebb	Cloudy	Moderate	11:34	4	B	3	3	NA							NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	<1	1			
SR4	13/5/2017	Mid-Ebb	Cloudy	Moderate	11:34	4	B	3	3	NA							NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	<1	1			
SR5	13/5/2017	Mid-Ebb	Cloudy	Moderate	10:42	11	S	1	1	4	4	NA	NA	NA	NA	NA	0.09	0.73	0.04	0.86	0.87	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA					
SR5	13/5/2017	Mid-Ebb	Cloudy	Moderate	10:42	11	S	1	2	4							NA	NA	NA	NA	NA	NA	0.09	0.74	0.04	0.87	0.87	NA	NA	NA	NA	NA	NA	NA	NA		
SR5	13/5/2017	Mid-Ebb	Cloudy	Moderate	10:42	11	S	1	3	NA							NA	NA	NA	NA	NA	NA	0.10	0.74	0.04	0.88	0.87	NA	NA	NA	NA	NA	NA	NA	NA		
SR5	13/5/2017	Mid-Ebb	Cloudy	Moderate	10:42	11	M	5.5	1	3	4	5	NA	NA	NA	NA	0.09	0.74	0.04	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87					
SR5	13/5/2017	Mid-Ebb	Cloudy	Moderate	10:42	11	M	5.5	2	4							NA	NA	NA	NA	NA	NA	0.09	0.74	0.04	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	
SR5	13/5/2017	Mid-Ebb	Cloudy	Moderate	10:42	11	M	5.5	3	NA							NA	NA	NA	NA	NA	NA	0.08	0.74	0.04	0.86	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	
SR5	13/5/2017	Mid-Ebb	Cloudy	Moderate	10:42	11	B	10	1	7	8	NA	NA	NA	NA	NA	0.09	0.74	0.04	0.87	0.87	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA					
SR5	13/5/2017	Mid-Ebb	Cloudy	Moderate	10:42	11	B	10	2	9							NA	NA	NA	NA	NA	NA	0.11	0.74	0.04	0.89	0.88	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR5	13/5/2017	Mid-Ebb	Cloudy	Moderate	10:42	11	B	10	3	NA							NA	NA	NA	NA	NA	NA	0.11	0.73	0.04	0.88	0.88	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR12	13/5/2017	Mid-Ebb	Cloudy	Moderate	11:48	15	S	1	1	7	8	0.17	0.17	0.19	0.002	0.002	NA	NA	NA	NA	NA	78	82	182	NA	NA	NA	<1	<1	1	1						
SR12	13/5/2017	Mid-Ebb	Cloudy	Moderate	11:48	15	S	1	2	9							0.002	0.002	0.003	0.003	0.003	NA	NA	NA	NA	NA	86	82	182	NA		NA	NA	<1	<1	1	
SR12	13/5/2017	Mid-Ebb	Cloudy	Moderate	11:48	15	S	1	3	NA							NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA	<1	<1	1		
SR12	13/5/2017	Mid-Ebb	Cloudy	Moderate	11:48	15	M	7.5	1	10	11	0.20	0.21	0.19	0.003	0.003	NA	NA	NA	NA	NA	410	479	182	NA	NA	NA	<1	<1	1	1						
SR12	13/5/2017	Mid-Ebb	Cloudy	Moderate	11:48	15	M	7.5	2	11							0.003	0.003	0.003	0.003	0.003	NA	NA	NA	NA	NA	560	479	182	NA		NA	NA	<1	<1	1	
SR12	13/5/2017	Mid-Ebb	Cloudy	Moderate	11:48	15	M	7.5	3	NA							NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA	<1	<1	1		
SR12	13/5/2017	Mid-Ebb	Cloudy	Moderate	11:48	15	B	14	1	9	10	0.19	0.21	0.20	0.003	0.003	NA	NA	NA	NA	NA	130	153	182	NA	NA	NA	<1	<1	1	1						
SR12	13/5/2017	Mid-Ebb	Cloudy	Moderate	11:48	15	B	14	2	10							0.003	0.003	0.003	0.003	0.003	NA	NA	NA	NA	NA	180	153	182	NA		NA	NA	<1	<1	1	
SR12	13/5/2017	Mid-Ebb	Cloudy	Moderate	11:58	14	B	14	3	NA							NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA	<1	<1	1		
SR13	13/5/2017	Mid-Ebb	Cloudy	Moderate	11:58	14	S	1	1	5	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
SR13	13/5/2017	Mid-Ebb	Cloudy	Moderate	11:58	14	S	1	2	6							NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR13	13/5/2017	Mid-Ebb	Cloudy	Moderate	11:58	14	S	1	3	NA							NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR13	13/5/2017	Mid-Ebb	Cloudy	Moderate	11:58	14	M	7	1	4	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
SR13	13/5/2017	Mid-Ebb	Cloudy	Moderate	11:58	14	M	7	2	6							NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR13	13/5/2017	Mid-Ebb	Cloudy	Moderate	11:58	14	M	7	3	NA							NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR13	13/5/2017	Mid-Ebb	Cloudy	Moderate	11:58	14	B	13	1	6	7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
SR13	13/5/2017	Mid-Ebb	Cloudy	Moderate	11:58	14	B	13	2	8							NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR13	13/5/2017	Mid-Ebb	Cloudy	Moderate	11:58	14	B	13	3	NA							NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		

Note: 1. Depth Ave.: (Except E.coli) "Depth-averaged" is calculated by taking the arithmetic means for the reading of the surface, middle and bottom depths  
 2. ND: Not Detected  
 3. Depth Averaged of E.coli is calculated by taking geometric mean of the readings of the surface, middle and bottom, all ND sample results (<1) for E.coli is regarded as 1 in calculating the geometric mean.





Impact Monitoring Data

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	Laboratory Analysis																							
										Total Suspended Solids (mg/L)			Ammonia Nitrogen (mg/L-N)			UIA (mg/L-N)			TIN-Ammonia (mg/L-N)	TIN-Nitrate (mg/L-N)	TIN-Nitrite (mg/L-N)	Total Inorganic Nitrogen (mg/L-N)			E.coli (cfu/100mL)			Synthetic Detergent (mg/L)			BOD <sub>5</sub> (mg/L)		
										Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Value	Value	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.
C1A	16/5/2017	Mid-Flood	Cloudy	Moderate	10:20	28	S	1	1	<1																							
C1A	16/5/2017	Mid-Flood	Cloudy	Moderate	10:20	28	S	1	2	1																							
C1A	16/5/2017	Mid-Flood	Cloudy	Moderate	10:20	28	S	1	3																								
C1A	16/5/2017	Mid-Flood	Cloudy	Moderate	10:20	28	M	14	1	1																							
C1A	16/5/2017	Mid-Flood	Cloudy	Moderate	10:20	28	M	14	2	<1																							
C1A	16/5/2017	Mid-Flood	Cloudy	Moderate	10:20	28	M	14	3																								
C1A	16/5/2017	Mid-Flood	Cloudy	Moderate	10:20	28	B	27	1	<1																							
C1A	16/5/2017	Mid-Flood	Cloudy	Moderate	10:20	28	B	27	2	<1																							
C1A	16/5/2017	Mid-Flood	Cloudy	Moderate	10:20	28	B	27	3																								
C2A	16/5/2017	Mid-Flood	Cloudy	Moderate	7:51	15	S	1	1	4																							
C2A	16/5/2017	Mid-Flood	Cloudy	Moderate	7:51	15	S	1	2	3																							
C2A	16/5/2017	Mid-Flood	Cloudy	Moderate	7:51	15	S	1	3																								
C2A	16/5/2017	Mid-Flood	Cloudy	Moderate	7:51	15	M	7.5	1	5																							
C2A	16/5/2017	Mid-Flood	Cloudy	Moderate	7:51	15	M	7.5	2	3																							
C2A	16/5/2017	Mid-Flood	Cloudy	Moderate	7:51	15	M	7.5	3																								
C2A	16/5/2017	Mid-Flood	Cloudy	Moderate	7:51	15	B	14	1	4																							
C2A	16/5/2017	Mid-Flood	Cloudy	Moderate	7:51	15	B	14	2	4																							
C2A	16/5/2017	Mid-Flood	Cloudy	Moderate	7:51	15	B	14	3																								
G2	16/5/2017	Mid-Flood	Cloudy	Moderate	9:28	12	S	1	1	<1																							
G2	16/5/2017	Mid-Flood	Cloudy	Moderate	9:28	12	S	1	2	1																							
G2	16/5/2017	Mid-Flood	Cloudy	Moderate	9:28	12	S	1	3																								
G2	16/5/2017	Mid-Flood	Cloudy	Moderate	9:28	12	M	6	1	4																							
G2	16/5/2017	Mid-Flood	Cloudy	Moderate	9:28	12	M	6	2	3																							
G2	16/5/2017	Mid-Flood	Cloudy	Moderate	9:28	12	M	6	3																								
G2	16/5/2017	Mid-Flood	Cloudy	Moderate	9:28	12	B	11	1	2																							
G2	16/5/2017	Mid-Flood	Cloudy	Moderate	9:28	12	B	11	2	2																							
G2	16/5/2017	Mid-Flood	Cloudy	Moderate	9:28	12	B	11	3																								
SR2	16/5/2017	Mid-Flood	Cloudy	Moderate	9:46	9	S	1	1	<1																							
SR2	16/5/2017	Mid-Flood	Cloudy	Moderate	9:46	9	S	1	2	<1																							
SR2	16/5/2017	Mid-Flood	Cloudy	Moderate	9:46	9	S	1	3																								
SR2	16/5/2017	Mid-Flood	Cloudy	Moderate	9:46	9	M	4.5	1	2																							
SR2	16/5/2017	Mid-Flood	Cloudy	Moderate	9:46	9	M	4.5	2	<1																							
SR2	16/5/2017	Mid-Flood	Cloudy	Moderate	9:46	9	M	4.5	3																								
SR2	16/5/2017	Mid-Flood	Cloudy	Moderate	9:46	9	B	8	1	<1																							
SR2	16/5/2017	Mid-Flood	Cloudy	Moderate	9:46	9	B	8	2	<1																							
SR2	16/5/2017	Mid-Flood	Cloudy	Moderate	9:46	9	B	8	3																								
SR3	16/5/2017	Mid-Flood	Cloudy	Moderate	9:09	8	S	1	1	<1																							
SR3	16/5/2017	Mid-Flood	Cloudy	Moderate	9:09	8	S	1	2	<1																							
SR3	16/5/2017	Mid-Flood	Cloudy	Moderate	9:09	8	S	1	3																								
SR3	16/5/2017	Mid-Flood	Cloudy	Moderate	9:09	8	M	4	1	<1																							
SR3	16/5/2017	Mid-Flood	Cloudy	Moderate	9:09	8	M	4	2	2																							
SR3	16/5/2017	Mid-Flood	Cloudy	Moderate	9:09	8	M	4	3																								
SR3	16/5/2017	Mid-Flood	Cloudy	Moderate	9:09	8	B	7	1	1																							
SR3	16/5/2017	Mid-Flood	Cloudy	Moderate	9:09	8	B	7	2	2																							
SR3	16/5/2017	Mid-Flood	Cloudy	Moderate	9:09	8	B	7	3																								











Impact Monitoring Data

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	Laboratory Analysis																											
										Total Suspended Solids (mg/L)			Ammonia Nitrogen (mg/L-N)			UIA (mg/L-N)			TIN-Ammonia (mg/L-N)	TIN-Nitrate (mg/L-N)	TIN-Nitrite (mg/L-N)	Total Inorganic Nitrogen (mg/L-N)			E.coli (cfu/100mL)			Synthetic Detergent (mg/L)			BOD <sub>5</sub> (mg/L)						
										Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Value	Value	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.				
SR4	16/5/2017	Mid-Ebb	Cloudy	Moderate	13:10	4	S	1	1	1	0.09			0.003			NA	NA	NA	NA	NA	5600			NA	NA	NA	<1									
SR4	16/5/2017	Mid-Ebb	Cloudy	Moderate	13:10	4	S	1	2	<1	0.08	0.09		0.002	0.003		NA	NA	NA	NA	NA	6400	5987		NA	NA	NA	<1	1								
SR4	16/5/2017	Mid-Ebb	Cloudy	Moderate	13:10	4	S	1	3								NA	NA	NA	NA	NA				NA	NA	NA										
SR4	16/5/2017	Mid-Ebb	Cloudy	Moderate	13:10	4	M		1								NA	NA	NA	NA	NA				NA	NA	NA										
SR4	16/5/2017	Mid-Ebb	Cloudy	Moderate	13:10	4	M		2								NA	NA	NA	NA	NA				NA	NA	NA										
SR4	16/5/2017	Mid-Ebb	Cloudy	Moderate	13:10	4	M		3								NA	NA	NA	NA	NA				NA	NA	NA										
SR4	16/5/2017	Mid-Ebb	Cloudy	Moderate	13:10	4	B	3	1	2	0.08			0.002			NA	NA	NA	NA	NA	3700			NA	NA	NA	<1									
SR4	16/5/2017	Mid-Ebb	Cloudy	Moderate	13:10	4	B	3	2	1	0.08	0.08		0.002	0.002		NA	NA	NA	NA	NA	4600	4126		NA	NA	NA	<1	1								
SR4	16/5/2017	Mid-Ebb	Cloudy	Moderate	13:10	4	B	3	3								NA	NA	NA	NA	NA				NA	NA	NA										
SR5	16/5/2017	Mid-Ebb	Cloudy	Moderate	12:04	11	S	1	1	2	NA			NA			0.10	0.59	0.04	0.73	0.74	NA			NA	NA	NA	NA									
SR5	16/5/2017	Mid-Ebb	Cloudy	Moderate	12:04	11	S	1	2	1	NA	NA		NA	NA		0.10	0.60	0.04	0.74	0.65	NA	NA		NA	NA	NA	NA									
SR5	16/5/2017	Mid-Ebb	Cloudy	Moderate	12:04	11	S	1	3								0.10	0.60	0.05	0.75	0.65	NA			NA	NA	NA	NA									
SR5	16/5/2017	Mid-Ebb	Cloudy	Moderate	12:04	11	M	5.5	1	2	NA			NA			0.09	0.52	0.04	0.65	0.65	NA			NA	NA	NA	NA									
SR5	16/5/2017	Mid-Ebb	Cloudy	Moderate	12:04	11	M	5.5	2	2	NA	NA		NA	NA		0.10	0.52	0.04	0.66	0.65	NA	NA		NA	NA	NA	NA									
SR5	16/5/2017	Mid-Ebb	Cloudy	Moderate	12:04	11	M	5.5	3								0.09	0.52	0.04	0.65	0.65	NA			NA	NA	NA	NA									
SR5	16/5/2017	Mid-Ebb	Cloudy	Moderate	12:04	11	B	10	1	2	NA			NA			0.10	0.53	0.05	0.68	0.67	NA			NA	NA	NA	NA									
SR5	16/5/2017	Mid-Ebb	Cloudy	Moderate	12:04	11	B	10	2	1	NA	NA		NA	NA		0.09	0.54	0.04	0.67	0.67	NA	NA		NA	NA	NA	NA									
SR5	16/5/2017	Mid-Ebb	Cloudy	Moderate	12:04	11	B	10	3								0.10	0.51	0.04	0.65	0.65	NA			NA	NA	NA	NA									
SR12	16/5/2017	Mid-Ebb	Cloudy	Moderate	13:29	15	S	1	1	2	0.10			0.003			NA	NA	NA	NA	NA	2300			NA	NA	NA	<1									
SR12	16/5/2017	Mid-Ebb	Cloudy	Moderate	13:29	15	S	1	2	2	0.11	0.11		0.003	0.003		NA	NA	NA	NA	NA	1800	2035		NA	NA	NA	<1	1								
SR12	16/5/2017	Mid-Ebb	Cloudy	Moderate	13:29	15	S	1	3								NA	NA	NA	NA	NA				NA	NA	NA										
SR12	16/5/2017	Mid-Ebb	Cloudy	Moderate	13:29	15	M	7.5	1	2	0.13			0.004			NA	NA	NA	NA	NA	860			NA	NA	NA	<1									
SR12	16/5/2017	Mid-Ebb	Cloudy	Moderate	13:29	15	M	7.5	2	2	0.11	0.12		0.003	0.004		NA	NA	NA	NA	NA	710	781		NA	NA	NA	<1	1								
SR12	16/5/2017	Mid-Ebb	Cloudy	Moderate	13:29	15	M	7.5	3								NA	NA	NA	NA	NA				NA	NA	NA										
SR12	16/5/2017	Mid-Ebb	Cloudy	Moderate	13:29	15	B	14	1	2	0.11			0.003			NA	NA	NA	NA	NA	840			NA	NA	NA	<1									
SR12	16/5/2017	Mid-Ebb	Cloudy	Moderate	13:29	15	B	14	2	3	0.11	0.11		0.003	0.003		NA	NA	NA	NA	NA	940	889		NA	NA	NA	<1	1								
SR12	16/5/2017	Mid-Ebb	Cloudy	Moderate	13:29	15	B	14	3								NA	NA	NA	NA	NA				NA	NA	NA										
SR13	16/5/2017	Mid-Ebb	Cloudy	Moderate	13:46	14	S	1	1	2	NA			NA			NA	NA	NA	NA	NA	NA	NA		NA	NA	NA										
SR13	16/5/2017	Mid-Ebb	Cloudy	Moderate	13:46	14	S	1	2	2	NA	NA		NA	NA		NA	NA	NA	NA	NA	NA	NA		NA	NA	NA										
SR13	16/5/2017	Mid-Ebb	Cloudy	Moderate	13:46	14	S	1	3								NA	NA	NA	NA	NA				NA	NA	NA										
SR13	16/5/2017	Mid-Ebb	Cloudy	Moderate	13:46	14	M	7	1	4	NA			NA			NA	NA	NA	NA	NA	NA	NA		NA	NA	NA										
SR13	16/5/2017	Mid-Ebb	Cloudy	Moderate	13:46	14	M	7	2	3	NA	NA		NA	NA		NA	NA	NA	NA	NA	NA	NA		NA	NA	NA										
SR13	16/5/2017	Mid-Ebb	Cloudy	Moderate	13:46	14	M	7	3								NA	NA	NA	NA	NA	NA	NA		NA	NA	NA										
SR13	16/5/2017	Mid-Ebb	Cloudy	Moderate	13:46	14	B	13	1	3	NA			NA			NA	NA	NA	NA	NA	NA	NA		NA	NA	NA										
SR13	16/5/2017	Mid-Ebb	Cloudy	Moderate	13:46	14	B	13	2	3	NA	NA		NA	NA		NA	NA	NA	NA	NA	NA	NA		NA	NA	NA										
SR13	16/5/2017	Mid-Ebb	Cloudy	Moderate	13:46	14	B	13	3								NA	NA	NA	NA	NA	NA	NA		NA	NA	NA										

Note: 1. Depth Ave.: (Except E.coli) "Depth-averaged" is calculated by taking the arithmetic means for the reading of the surface, middle and bottom depths  
 2. ND: Not Detected  
 3. Depth Averaged of E.coli is calculated by taking geometric mean of the readings of the surface, middle and bottom, all ND sample results (<1) for E.coli is regarded as 1 in calculating the geometric mean.



Impact Monitoring Data

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement																														
										pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)			Ammonia (mg/L-N)			UIA (mg/L-N)			TIN-Ammonia (mg/L-N)	TIN-Nitrite (mg/L-N)	TIN-Nitrate (mg/L-N)	Total Inorganic Nitrogen (mg/L-N)								
										Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	S & M Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Value	Value	Value	Ave.	Depth Ave.					
																														Value	Value	Value	Value	Value						
SR4	18/5/2017	Mid-Flood	Cloudy	Moderate	11:27	4	S	1	1	7.80		28.15	28.15	25.78	25.78	85.2	85.1	5.87	5.86			7.3	7.4		0.10	0.10		0.003	0.003		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR4	18/5/2017	Mid-Flood	Cloudy	Moderate	11:27	4	S	1	2	7.80	7.80	28.15	28.15	25.78	25.78	85.0	85.1	5.87	5.86			7.3	7.4		0.10	0.10		0.003	0.003		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR4	18/5/2017	Mid-Flood	Cloudy	Moderate	11:27	4	S	1	3																					NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR4	18/5/2017	Mid-Flood	Cloudy	Moderate	11:27	4	M		1																				NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR4	18/5/2017	Mid-Flood	Cloudy	Moderate	11:27	4	M		2		NA		NA		NA														NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR4	18/5/2017	Mid-Flood	Cloudy	Moderate	11:27	4	M		3																				NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR4	18/5/2017	Mid-Flood	Cloudy	Moderate	11:27	4	B	3	1	7.80	7.80	28.10	28.11	25.70	25.70	83.0	83.0	5.79	5.77			2.1	2.1		0.10	0.10		0.003	0.003		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR4	18/5/2017	Mid-Flood	Cloudy	Moderate	11:27	4	B	3	2	7.79	7.80	28.11	28.11	25.69	25.70	82.9	83.0	5.77	5.78			2.0	2.1		0.10	0.10		0.003	0.003		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR4	18/5/2017	Mid-Flood	Cloudy	Moderate	11:27	4	B	3	3																				NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR5	18/5/2017	Mid-Flood	Cloudy	Moderate	12:41	11	S	1	1	7.85		27.46	27.46	25.60	25.60	84.1	84.2	6.00	6.01			0.8	0.9		NA	NA		NA	NA		0.05	0.58	0.04	0.67					0.68	
SR5	18/5/2017	Mid-Flood	Cloudy	Moderate	12:41	11	S	1	2	7.84	7.85	27.46	27.46	25.60	25.60	84.2	84.2	6.01	6.01			0.9	0.9		NA	NA		NA	NA		0.05	0.59	0.04	0.68					0.68	
SR5	18/5/2017	Mid-Flood	Cloudy	Moderate	12:41	11	S	1	3																				NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR5	18/5/2017	Mid-Flood	Cloudy	Moderate	12:41	11	M	5	1	7.83		27.63	27.63	25.55	25.55	83.5	83.5	5.86	5.86			0.6	0.7		NA	NA		NA	NA		0.05	0.59	0.04	0.68					0.67	
SR5	18/5/2017	Mid-Flood	Cloudy	Moderate	12:41	11	M	5	2	7.83	7.83	27.63	27.63	25.54	25.55	83.4	83.5	5.86	5.86			0.8	0.7		NA	NA		NA	NA		0.05	0.57	0.04	0.66					0.67	
SR5	18/5/2017	Mid-Flood	Cloudy	Moderate	12:41	11	M	5	3																				NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR5	18/5/2017	Mid-Flood	Cloudy	Moderate	12:41	11	B	10	1	7.82		27.90	27.91	25.45	25.46	82.1	82.1	5.71	5.72			0.9	0.9		NA	NA		NA	NA		0.05	0.59	0.03	0.67					0.67	
SR5	18/5/2017	Mid-Flood	Cloudy	Moderate	12:41	11	B	10	2	7.82	7.82	27.91	27.91	25.46	25.46	82.0	82.1	5.72	5.72			0.9	0.9		NA	NA		NA	NA		0.05	0.59	0.03	0.67					0.67	
SR5	18/5/2017	Mid-Flood	Cloudy	Moderate	12:41	11	B	10	3																				NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR12	18/5/2017	Mid-Flood	Cloudy	Moderate	11:05	15	S	1	1	7.79		28.25	28.25	25.73	25.73	83.6	83.5	5.85	5.84			2.0	2.0		0.10	0.10		0.003	0.003		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR12	18/5/2017	Mid-Flood	Cloudy	Moderate	11:05	15	S	1	2	7.79	7.79	28.24	28.25	25.73	25.73	83.4	83.5	5.84	5.85			1.9	2.0		0.10	0.10		0.003	0.003		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR12	18/5/2017	Mid-Flood	Cloudy	Moderate	11:05	15	S	1	3																					NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR12	18/5/2017	Mid-Flood	Cloudy	Moderate	11:05	15	M	7	1	7.78		28.61	28.61	25.64	25.64	81.2	81.1	5.62	5.63			2.1	2.2		0.06	0.06		0.002	0.002		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR12	18/5/2017	Mid-Flood	Cloudy	Moderate	11:05	15	M	7	2	7.78	7.78	28.60	28.61	25.63	25.64	81.0	81.1	5.62	5.63			2.2	2.2		0.06	0.06		0.002	0.002		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR12	18/5/2017	Mid-Flood	Cloudy	Moderate	11:05	15	M	7	3																					NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR12	18/5/2017	Mid-Flood	Cloudy	Moderate	11:05	15	B	14	1	7.78		28.91	28.92	25.59	25.59	78.8	78.7	5.52	5.53			1.8	1.8		0.09	0.09		0.003	0.003		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR12	18/5/2017	Mid-Flood	Cloudy	Moderate	11:05	15	B	14	2	7.77	7.78	28.92	28.92	25.58	25.59	78.6	78.7	5.53	5.53			1.8	1.8		0.09	0.09		0.003	0.003		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR12	18/5/2017	Mid-Flood	Cloudy	Moderate	11:05	15	B	14	3																					NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR13	18/5/2017	Mid-Flood	Cloudy	Moderate	10:39	14	S	1	1	7.75		29.52	29.53	25.49	25.49	87.6	85.0	5.62	5.60			1.5	1.6		NA	NA		NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR13	18/5/2017	Mid-Flood	Cloudy	Moderate	10:39	14	S	1	2	7.75	7.75	29.53	29.53	25.49	25.49	82.4	85.0	5.60	5.61			1.7	1.6		NA	NA		NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR13	18/5/2017	Mid-Flood	Cloudy	Moderate	10:39	14	S	1	3																					NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR13	18/5/2017	Mid-Flood	Cloudy	Moderate	10:39	14	M	7	1	7.74		29.48	29.48	25.48	25.48	78.8	78.9	5.43	5.42			2.0	2.1		NA	NA		NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR13	18/5/2017	Mid-Flood	Cloudy	Moderate	10:39	14	M	7	2	7.74	7.74	29.48	29.48	25.47	25.48	78.9	78.9	5.42	5.43			2.1	2.1		NA	NA		NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR13	18/5/2017	Mid-Flood	Cloudy	Moderate	10:39	14	M	7	3																					NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR13	18/5/2017	Mid-Flood	Cloudy	Moderate	10:39	14	B	13	1	7.74		29.38	29.38	25.40	25.40	76.5	76.6	5.30	5.29			1.7	1.8		NA	NA		NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR13	18/5/2017	Mid-Flood	Cloudy	Moderate	10:39	14	B	13	2	7.73	7.74	29.37	29.38	25.39	25.40	76.6	76.6	5.29	5.30			1.8	1.8		NA	NA		NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR13	18/5/2017	Mid-Flood	Cloudy	Moderate	10:39	14	B	13	3																					NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	

- Note: 1. Depth Ave.: (Except E.coli) "Depth-averaged" is calculated by taking the arithmetic means for the reading of the surface, middle and bottom depths  
 2. ND: Not Detected  
 3. Depth Averaged of E.coli is calculated by taking geometric mean of the readings of the surface, middle and bottom, all ND sample results (<1) for E.coli is regarded as 1  
 1 in calculating the geometric mean.

Impact Monitoring Data

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	Laboratory Analysis																							
										Total Suspended Solids (mg/L)			Ammonia Nitrogen (mg/L-N)			UIA (mg/L-N)			TIN-Ammonia (mg/L-N)	TIN-Nitrate (mg/L-N)	TIN-Nitrite (mg/L-N)	Total Inorganic Nitrogen (mg/L-N)			E.coli (cfu/100mL)			Synthetic Detergent (mg/L)			BOD <sub>5</sub> (mg/L)		
										Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Value	Value	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.
C1A	18/5/2017	Mid-Flood	Cloudy	Moderate	13:05	28	S	1	1	3																							
C1A	18/5/2017	Mid-Flood	Cloudy	Moderate	13:05	28	S	1	2	3																							
C1A	18/5/2017	Mid-Flood	Cloudy	Moderate	13:05	28	S	1	3																								
C1A	18/5/2017	Mid-Flood	Cloudy	Moderate	13:05	28	M	14	1	2																							
C1A	18/5/2017	Mid-Flood	Cloudy	Moderate	13:05	28	M	14	2	4																							
C1A	18/5/2017	Mid-Flood	Cloudy	Moderate	13:05	28	M	14	3																								
C1A	18/5/2017	Mid-Flood	Cloudy	Moderate	13:05	28	B	27	1	4																							
C1A	18/5/2017	Mid-Flood	Cloudy	Moderate	13:05	28	B	27	2	3																							
C1A	18/5/2017	Mid-Flood	Cloudy	Moderate	13:05	28	B	27	3																								
C2A	18/5/2017	Mid-Flood	Cloudy	Moderate	10:09	14	S	1	1	4																							
C2A	18/5/2017	Mid-Flood	Cloudy	Moderate	10:09	14	S	1	2	6																							
C2A	18/5/2017	Mid-Flood	Cloudy	Moderate	10:09	14	S	1	3																								
C2A	18/5/2017	Mid-Flood	Cloudy	Moderate	10:09	14	M	7	1	4																							
C2A	18/5/2017	Mid-Flood	Cloudy	Moderate	10:09	14	M	7	2	6																							
C2A	18/5/2017	Mid-Flood	Cloudy	Moderate	10:09	14	M	7	3																								
C2A	18/5/2017	Mid-Flood	Cloudy	Moderate	10:09	14	B	13	1	10																							
C2A	18/5/2017	Mid-Flood	Cloudy	Moderate	10:09	14	B	13	2	8																							
C2A	18/5/2017	Mid-Flood	Cloudy	Moderate	10:09	14	B	13	3																								
G2	18/5/2017	Mid-Flood	Cloudy	Moderate	12:10	12	S	1	1	4																							
G2	18/5/2017	Mid-Flood	Cloudy	Moderate	12:10	12	S	1	2	5																							
G2	18/5/2017	Mid-Flood	Cloudy	Moderate	12:10	12	S	1	3																								
G2	18/5/2017	Mid-Flood	Cloudy	Moderate	12:10	12	M	6	1	4																							
G2	18/5/2017	Mid-Flood	Cloudy	Moderate	12:10	12	M	6	2	6																							
G2	18/5/2017	Mid-Flood	Cloudy	Moderate	12:10	12	M	6	3																								
G2	18/5/2017	Mid-Flood	Cloudy	Moderate	12:10	12	B	11	1	3																							
G2	18/5/2017	Mid-Flood	Cloudy	Moderate	12:10	12	B	11	2	3																							
G2	18/5/2017	Mid-Flood	Cloudy	Moderate	12:10	12	B	11	3																								
SR2	18/5/2017	Mid-Flood	Cloudy	Moderate	12:28	9	S	1	1	5																							
SR2	18/5/2017	Mid-Flood	Cloudy	Moderate	12:28	9	S	1	2	5																							
SR2	18/5/2017	Mid-Flood	Cloudy	Moderate	12:28	9	S	1	3																								
SR2	18/5/2017	Mid-Flood	Cloudy	Moderate	12:28	9	M	4	1	6																							
SR2	18/5/2017	Mid-Flood	Cloudy	Moderate	12:28	9	M	4	2	8																							
SR2	18/5/2017	Mid-Flood	Cloudy	Moderate	12:28	9	M	4	3																								
SR2	18/5/2017	Mid-Flood	Cloudy	Moderate	12:28	9	B	8	1	6																							
SR2	18/5/2017	Mid-Flood	Cloudy	Moderate	12:28	9	B	8	2	8																							
SR2	18/5/2017	Mid-Flood	Cloudy	Moderate	12:28	9	B	8	3																								
SR3	18/5/2017	Mid-Flood	Cloudy	Moderate	11:49	8	S	1	1	5																							
SR3	18/5/2017	Mid-Flood	Cloudy	Moderate	11:49	8	S	1	2	6																							
SR3	18/5/2017	Mid-Flood	Cloudy	Moderate	11:49	8	S	1	3																								
SR3	18/5/2017	Mid-Flood	Cloudy	Moderate	11:49	8	M	4	1	3																							
SR3	18/5/2017	Mid-Flood	Cloudy	Moderate	11:49	8	M	4	2	2																							
SR3	18/5/2017	Mid-Flood	Cloudy	Moderate	11:49	8	M	4	3																								
SR3	18/5/2017	Mid-Flood	Cloudy	Moderate	11:49	8	B	7	1	2																							
SR3	18/5/2017	Mid-Flood	Cloudy	Moderate	11:49	8	B	7	2	2																							
SR3	18/5/2017	Mid-Flood	Cloudy	Moderate	11:49	8	B	7	3																								

Impact Monitoring Data

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	Laboratory Analysis																																											
										Total Suspended Solids (mg/L)			Ammonia Nitrogen (mg/L-N)			UIA (mg/L-N)			TIN-Ammonia (mg/L-N)	TIN-Nitrate (mg/L-N)	TIN-Nitrite (mg/L-N)	Total Inorganic Nitrogen (mg/L-N)			E.coli (cfu/100mL)			Synthetic Detergent (mg/L)			BOD <sub>5</sub> (mg/L)																						
										Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Value	Value	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.																				
SR4	18/5/2017	Mid-Flood	Cloudy	Moderate	11:27	4	S	1	1	3	3	0.09	0.10	0.10	0.003	0.003	0.003	NA	NA	NA	NA	NA	26000	23917	20146	NA	NA	NA	2	2	2																						
SR4	18/5/2017	Mid-Flood	Cloudy	Moderate	11:27	4	S	1	2	2																						0.10	0.10	0.10	0.003	0.003	0.003	NA	NA	NA	NA	NA	22000	NA	NA	NA	2	2	2				
SR4	18/5/2017	Mid-Flood	Cloudy	Moderate	11:27	4	S	1	3	3																						NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR4	18/5/2017	Mid-Flood	Cloudy	Moderate	11:27	4	M	1	1	1	NA	NA	NA	0.10	NA	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA																					
SR4	18/5/2017	Mid-Flood	Cloudy	Moderate	11:27	4	M	1	2	2																							0.10	0.10	0.10	0.003	0.003	0.003	NA	NA	NA	NA	NA	16000	16971	NA	NA	NA	2	2	2		
SR4	18/5/2017	Mid-Flood	Cloudy	Moderate	11:27	4	M	3	3	3																							NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	18000	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR4	18/5/2017	Mid-Flood	Cloudy	Moderate	11:27	4	M	3	1	5	4	0.10	0.10	0.10	0.003	0.003	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA																					
SR4	18/5/2017	Mid-Flood	Cloudy	Moderate	11:27	4	B	3	2	3																							0.10	0.10	0.10	0.003	0.003	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR4	18/5/2017	Mid-Flood	Cloudy	Moderate	11:27	4	B	3	3	3																							NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR5	18/5/2017	Mid-Flood	Cloudy	Moderate	12:41	11	S	1	1	1	1	NA	NA	NA	NA	NA	NA	0.05	0.58	0.04	0.67	0.67	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA																					
SR5	18/5/2017	Mid-Flood	Cloudy	Moderate	12:41	11	S	1	2	<1																							NA	NA	NA	NA	NA	NA	0.05	0.59	0.04	0.68	0.67	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR5	18/5/2017	Mid-Flood	Cloudy	Moderate	12:41	11	S	1	3	3																							NA	NA	NA	NA	NA	NA	0.04	0.59	0.04	0.67	0.67	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR5	18/5/2017	Mid-Flood	Cloudy	Moderate	12:41	11	M	5	1	5	5	NA	NA	NA	NA	NA	NA	0.03	0.59	0.04	0.66	0.66	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA																					
SR5	18/5/2017	Mid-Flood	Cloudy	Moderate	12:41	11	M	5	2	4																							NA	NA	NA	NA	NA	NA	0.05	0.57	0.04	0.66	0.66	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR5	18/5/2017	Mid-Flood	Cloudy	Moderate	12:41	11	M	5	3	3																							NA	NA	NA	NA	NA	NA	0.04	0.58	0.04	0.66	0.66	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR5	18/5/2017	Mid-Flood	Cloudy	Moderate	12:41	11	B	10	1	4	5	NA	NA	NA	NA	NA	NA	0.05	0.59	0.03	0.67	0.67	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA																					
SR5	18/5/2017	Mid-Flood	Cloudy	Moderate	12:41	11	B	10	2	6																							NA	NA	NA	NA	NA	NA	0.04	0.59	0.03	0.66	0.67	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR5	18/5/2017	Mid-Flood	Cloudy	Moderate	12:41	11	B	10	3	3																							NA	NA	NA	NA	NA	NA	0.05	0.58	0.04	0.67	0.67	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR12	18/5/2017	Mid-Flood	Cloudy	Moderate	11:05	15	S	1	1	2	3	0.08	0.09	0.09	0.002	0.002	0.002	NA	NA	NA	NA	NA	NA	3600	3499	885	NA	NA	NA	2	2	2																					
SR12	18/5/2017	Mid-Flood	Cloudy	Moderate	11:05	15	S	1	2	3																							0.06	0.06	0.06	0.002	0.002	0.002	NA	NA	NA	NA	NA	210	251	NA	NA	NA	1	2	2		
SR12	18/5/2017	Mid-Flood	Cloudy	Moderate	11:05	15	M	7	1	3																							0.06	0.06	0.06	0.002	0.002	0.002	NA	NA	NA	NA	NA	300	NA	NA	NA	NA	2	2	2		
SR12	18/5/2017	Mid-Flood	Cloudy	Moderate	11:05	15	M	7	3	3	3	0.09	0.09	0.09	0.003	0.003	0.003	NA	NA	NA	NA	NA	760	789	NA	NA	NA	2	2	2																							
SR12	18/5/2017	Mid-Flood	Cloudy	Moderate	11:05	15	B	14	1	3																					0.09	0.09	0.09	0.003	0.003	0.003	NA	NA	NA	NA	NA	820	NA	NA	NA	1	2	2					
SR12	18/5/2017	Mid-Flood	Cloudy	Moderate	11:05	15	B	14	3	3																					NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR13	18/5/2017	Mid-Flood	Cloudy	Moderate	10:39	14	S	1	1	3	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA																						
SR13	18/5/2017	Mid-Flood	Cloudy	Moderate	10:39	14	S	1	2	5																						NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR13	18/5/2017	Mid-Flood	Cloudy	Moderate	10:39	14	S	1	3	3																						NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR13	18/5/2017	Mid-Flood	Cloudy	Moderate	10:39	14	M	7	1	4	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA																						
SR13	18/5/2017	Mid-Flood	Cloudy	Moderate	10:39	14	M	7	2	6																						NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR13	18/5/2017	Mid-Flood	Cloudy	Moderate	10:39	14	M	7	3	3																						NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SR13	18/5/2017	Mid-Flood	Cloudy	Moderate	10:39	14	B	13	1	<1	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA																						
SR13	18/5/2017	Mid-Flood	Cloudy	Moderate	10:39	14	B	13	2	1																						NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR13	18/5/2017	Mid-Flood	Cloudy	Moderate	10:39	14	B	13	3	3																						NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Note: 1. Depth Ave.: (Except E.coli) "Depth-averaged" is calculated by taking the arithmetic means for the reading of the surface, middle and bottom depths  
 2. ND: Not Detected  
 3. Depth Averaged of E.coli is calculated by taking geometric mean of the readings of the surface, middle and bottom, all ND sample results (<1) for E.coli is regarded as 1 in calculating the geometric mean.

Impact Monitoring Data

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement																												
										pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)			Ammonia (mg/L-N)			UIA (mg/L-N)			TIN-Ammonia (mg/L-N)	TIN-Nitrite (mg/L-N)	TIN-Nitrate (mg/L-N)	Total Inorganic Nitrogen (mg/L-N)						
										Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	S & M Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Value	Value	Value	Ave.	Depth Ave.			
C1A	18/5/2017	Mid-Ebb	Cloudy	Moderate	13:30	28	S	1	1	7.85	28.29	28.29	25.63	25.64	86.5	86.6	86.6	6.09	6.08	6.09	6.09	2.5	2.6	2.6	0.05	0.05	0.05	0.002	0.002	0.002	0.05	0.53	0.04	0.62				
C1A	18/5/2017	Mid-Ebb	Cloudy	Moderate	13:30	28	S	1	2	7.85	7.85	28.29	25.64	25.64	86.6	86.6	86.6	6.09	6.08	6.09	6.09	2.5	2.6	2.6	0.05	0.05	0.05	0.002	0.002	0.002	0.05	0.54	0.03	0.62			0.62	
C1A	18/5/2017	Mid-Ebb	Cloudy	Moderate	13:30	28	S	1	3																													
C1A	18/5/2017	Mid-Ebb	Cloudy	Moderate	13:30	28	M	14	1	7.84	28.72	28.72	25.42	25.42	83.9	84.0	84.0	5.79	5.77	5.78	5.93	2.8	2.9	2.9	0.05	0.05	0.05	0.002	0.002	0.002	0.05	0.53	0.03	0.61				
C1A	18/5/2017	Mid-Ebb	Cloudy	Moderate	13:30	28	M	14	2	7.83	7.84	28.71	28.72	25.42	25.42	84.0	84.0	84.0	5.77	5.78	5.78	5.93	2.8	2.9	2.9	0.05	0.05	0.05	0.002	0.002	0.002	0.05	0.54	0.03	0.62			0.62
C1A	18/5/2017	Mid-Ebb	Cloudy	Moderate	13:30	28	M	14	3																													
C1A	18/5/2017	Mid-Ebb	Cloudy	Moderate	13:30	28	B	27	1	7.81	7.82	29.01	29.01	25.29	25.30	81.5	81.6	81.6	5.60	5.61	5.61		2.0	2.1	2.1	0.05	0.05	0.05	0.001	0.001	0.001	0.05	0.52	0.03	0.60			0.61
C1A	18/5/2017	Mid-Ebb	Cloudy	Moderate	13:30	28	B	27	2	7.82	29.00	29.01	25.30	25.30	81.6	81.6	81.6	5.61	5.61	5.61		2.1	2.1	2.1	0.05	0.05	0.05	0.001	0.001	0.001	0.05	0.54	0.03	0.62			0.61	
C1A	18/5/2017	Mid-Ebb	Cloudy	Moderate	13:30	28	B	27	3																													
C2A	18/5/2017	Mid-Ebb	Cloudy	Moderate	15:20	14	S	1	1	7.80	30.25	30.26	25.61	25.61	75.6	75.6	75.6	5.58	5.57	5.58	5.52	2.8	2.7	2.8	0.30	0.30	0.30	0.009	0.009	0.009	0.30	0.34	0.03	0.67			0.67	
C2A	18/5/2017	Mid-Ebb	Cloudy	Moderate	15:20	14	S	1	2	7.79	7.80	30.26	30.26	25.61	25.61	75.0	75.3	75.3	5.57	5.58	5.58	5.52	2.7	2.8	2.8	0.30	0.30	0.30	0.009	0.009	0.009	0.30	0.35	0.02	0.67			0.67
C2A	18/5/2017	Mid-Ebb	Cloudy	Moderate	15:20	14	S	1	3																													
C2A	18/5/2017	Mid-Ebb	Cloudy	Moderate	15:20	14	M	7	1	7.78	7.78	30.40	30.40	25.55	25.55	74.0	74.0	74.0	5.46	5.47	5.47		2.9	2.9	2.9	0.30	0.30	0.30	0.008	0.008	0.008	0.30	0.36	0.02	0.68			0.67
C2A	18/5/2017	Mid-Ebb	Cloudy	Moderate	15:20	14	M	7	2	7.78	7.78	30.41	30.41	25.54	25.55	73.9	74.0	74.0	5.47	5.47	5.47		2.9	2.9	2.9	0.30	0.30	0.30	0.008	0.008	0.008	0.30	0.36	0.02	0.68			0.67
C2A	18/5/2017	Mid-Ebb	Cloudy	Moderate	15:20	14	M	7	3																													
C2A	18/5/2017	Mid-Ebb	Cloudy	Moderate	15:20	14	B	13	1	7.76	7.76	30.55	30.55	25.49	25.49	72.5	72.5	72.5	5.35	5.34	5.35		2.5	2.5	2.5	0.30	0.30	0.30	0.008	0.008	0.008	0.30	0.33	0.02	0.65			0.65
C2A	18/5/2017	Mid-Ebb	Cloudy	Moderate	15:20	14	B	13	2	7.76	7.76	30.55	30.55	25.48	25.49	72.4	72.5	72.5	5.34	5.35	5.35		2.4	2.5	2.5	0.30	0.30	0.30	0.008	0.008	0.008	0.30	0.32	0.02	0.65			0.65
C2A	18/5/2017	Mid-Ebb	Cloudy	Moderate	15:20	14	B	13	3																													
G2	18/5/2017	Mid-Ebb	Cloudy	Moderate	14:10	12	S	1	1	7.88	7.88	28.76	28.77	25.75	25.75	86.5	86.5	86.5	6.02	6.03	6.03	5.79	0.7	0.6	0.7	NA	NA	NA	NA	NA	NA	0.01	0.57	0.04	0.62			0.62
G2	18/5/2017	Mid-Ebb	Cloudy	Moderate	14:10	12	S	1	2	7.88	7.88	28.77	28.77	25.75	25.75	86.4	86.5	86.5	6.03	6.03	6.03	5.79	0.6	0.7	0.7	NA	NA	NA	NA	NA	NA	0.01	0.58	0.03	0.62			0.62
G2	18/5/2017	Mid-Ebb	Cloudy	Moderate	14:10	12	S	1	3																													
G2	18/5/2017	Mid-Ebb	Cloudy	Moderate	14:10	12	M	6	1	7.85	7.85	29.11	29.11	25.82	25.82	81.2	81.3	81.3	5.55	5.56	5.56		0.4	0.3	0.4	NA	NA	NA	NA	NA	NA	0.01	0.57	0.03	0.61			0.61
G2	18/5/2017	Mid-Ebb	Cloudy	Moderate	14:10	12	M	6	2	7.85	7.85	29.11	29.11	25.81	25.82	81.3	81.3	81.3	5.56	5.56	5.56		0.3	0.4	0.4	NA	NA	NA	NA	NA	NA	0.01	0.57	0.03	0.61			0.61
G2	18/5/2017	Mid-Ebb	Cloudy	Moderate	14:10	12	M	6	3																													
G2	18/5/2017	Mid-Ebb	Cloudy	Moderate	14:10	12	B	11	1	7.83	7.84	30.36	30.36	25.29	25.30	76.4	76.4	76.4	5.28	5.26	5.27		0.5	0.6	0.6	NA	NA	NA	NA	NA	NA	0.01	0.56	0.04	0.61			0.61
G2	18/5/2017	Mid-Ebb	Cloudy	Moderate	14:10	12	B	11	2	7.84	7.84	30.36	30.36	25.30	25.30	76.3	76.4	76.4	5.26	5.27	5.27		0.6	0.6	0.6	NA	NA	NA	NA	NA	NA	0.01	0.56	0.03	0.60			0.61
G2	18/5/2017	Mid-Ebb	Cloudy	Moderate	14:10	12	B	11	3																													
SR2	18/5/2017	Mid-Ebb	Cloudy	Moderate	13:57	9	S	1	1	7.86	7.86	28.01	28.01	25.85	25.86	91.3	91.4	91.4	6.25	6.27	6.26	6.16	0.7	0.6	0.7	0.03	0.03	0.03	0.001	0.001	0.001	NA	NA	NA	NA			NA
SR2	18/5/2017	Mid-Ebb	Cloudy	Moderate	13:57	9	S	1	2	7.86	7.86	28.00	28.01	25.86	25.86	91.4	91.4	91.4	6.27	6.26	6.26	6.16	0.6	0.7	0.7	0.03	0.03	0.03	0.001	0.001	0.001	NA	NA	NA	NA			NA
SR2	18/5/2017	Mid-Ebb	Cloudy	Moderate	13:57	9	S	1	3																													
SR2	18/5/2017	Mid-Ebb	Cloudy	Moderate	13:57	9	M	4	1	7.85	7.85	28.55	28.56	25.57	25.57	87.0	87.0	87.0	6.05	6.06	6.06		0.5	0.6	0.6	0.03	0.03	0.03	0.001	0.001	0.001	NA	NA	NA	NA			NA
SR2	18/5/2017	Mid-Ebb	Cloudy	Moderate	13:57	9	M	4	2	7.84	7.85	28.56	28.56	25.56	25.57	86.9	87.0	87.0	6.06	6.06	6.06		0.6	0.6	0.6	0.03	0.03	0.03	0.001	0.001	0.001	NA	NA	NA	NA			NA
SR2	18/5/2017	Mid-Ebb	Cloudy	Moderate	13:57	9	M	4	3																													
SR2	18/5/2017	Mid-Ebb	Cloudy	Moderate	13:57	9	B	8	1	7.83	7.83	29.48	29.49	25.40	25.41	84.5	84.4	84.4	5.90	5.89	5.90		0.3	0.4	0.4	0.05	0.05	0.05	0.002	0.002	0.002	NA	NA	NA	NA			NA
SR2	18/5/2017	Mid-Ebb	Cloudy	Moderate	13:57	9	B	8	2	7.82	7.83	29.50	29.49	25.41	25.41	84.3	84.4	84.4	5.89	5.90	5.90		0.4	0.4	0.4	0.05	0.05	0.05	0.002	0.002	0.002	NA	NA	NA	NA			NA
SR2	18/5/2017	Mid-Ebb	Cloudy	Moderate	13:57	9	B	8	3																													
SR3	18/5/2017	Mid-Ebb	Cloudy	Moderate	14:23	8	S	1	1	7.88	7.88	28.09	28.09	25.81	25.82	91.6	91.6	91.6	6.34	6.34	6.34	6.17	0.5	0.6	0.6	0.03	0.03	0.03	0.001	0.001	0.001	NA	NA	NA	NA			NA
SR3	18/5/2017	Mid-Ebb	Cloudy	Moderate	14:23	8	S	1	2	7.88	7.88	28.09	28.09	25.82	25.82	91.5	91.6	91.6	6.34	6.34	6.34	6.17	0.6	0.6	0.6	0.03	0.03	0.03	0.001	0.001	0.001	NA	NA	NA	NA			NA
SR3	18/5/2017	Mid-Ebb	Cloudy	Moderate	14:23	8	S	1	3																													
SR3	18/5/2017	Mid-Ebb	Cloudy	Moderate	14:23	8	M	4	1	7.85	7.85	29.04	29.04	25.55	25.55	85.0	84.9	84.9	6.00	6.01	6.01		0.7	0.7	0.7	0.03	0.03	0.03	0.001	0.001	0.001	NA	NA	NA	NA			NA
SR3	18/5/2017	Mid-Ebb	Cloudy	Moderate	14:23	8	M	4	2	7.84	7.85	29.04	29.04	25.55	25.55	84.8	84.9	84.9	6.01	6.01	6.01		0.7	0.7	0.7	0.03	0.03	0.03	0.001	0.001	0.001	NA	NA					

Impact Monitoring Data

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement																											
										pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)			Turbidity (NTU)			Ammonia (mg/L-N)			UIA (mg/L-N)			TIN-Ammonia (mg/L-N)	TIN-Nitrite (mg/L-N)	TIN-Nitrate (mg/L-N)	Total Inorganic Nitrogen (mg/L-N)				
										Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	S & M Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Value	Value	Value	Ave.	Depth Ave.
SR4	18/5/2017	Mid-Ebb	Cloudy	Moderate	14:37	4	S	1	1	7.87																											
SR4	18/5/2017	Mid-Ebb	Cloudy	Moderate	14:37	4	S	1	2	7.87	7.87	28.65	28.65	26.02	26.01	26.02	88.8	88.6	88.7	6.14	6.14																
SR4	18/5/2017	Mid-Ebb	Cloudy	Moderate	14:37	4	S	1	3																												
SR4	18/5/2017	Mid-Ebb	Cloudy	Moderate	14:37	4	M		1																												
SR4	18/5/2017	Mid-Ebb	Cloudy	Moderate	14:37	4	M		2		NA		NA		NA		NA		NA																		
SR4	18/5/2017	Mid-Ebb	Cloudy	Moderate	14:37	4	M		3																												
SR4	18/5/2017	Mid-Ebb	Cloudy	Moderate	14:37	4	B	3	1	7.85																											
SR4	18/5/2017	Mid-Ebb	Cloudy	Moderate	14:37	4	B	3	2	7.86	7.86	28.71	28.72	25.92	25.92	25.92	87.0	86.9	87.0	6.05	6.05																
SR4	18/5/2017	Mid-Ebb	Cloudy	Moderate	14:37	4	B	3	3																												
SR5	18/5/2017	Mid-Ebb	Cloudy	Moderate	13:41	11	S	1	1	7.85																											
SR5	18/5/2017	Mid-Ebb	Cloudy	Moderate	13:41	11	S	1	2	7.85	7.85	26.95	26.97	25.65	25.66	25.66	86.1	86.0	86.1	6.11	6.12																
SR5	18/5/2017	Mid-Ebb	Cloudy	Moderate	13:41	11	S	1	3																												
SR5	18/5/2017	Mid-Ebb	Cloudy	Moderate	13:41	11	M	5	1	7.84																											
SR5	18/5/2017	Mid-Ebb	Cloudy	Moderate	13:41	11	M	5	2	7.83	7.84	27.35	27.36	25.53	25.52	25.53	84.4	84.5	84.5	5.98	5.98																
SR5	18/5/2017	Mid-Ebb	Cloudy	Moderate	13:41	11	M	5	3																												
SR5	18/5/2017	Mid-Ebb	Cloudy	Moderate	13:41	11	B	10	1	7.81																											
SR5	18/5/2017	Mid-Ebb	Cloudy	Moderate	13:41	11	B	10	2	7.81	7.81	27.66	27.66	25.40	25.39	25.40	83.0	82.9	83.0	5.81	5.82																
SR5	18/5/2017	Mid-Ebb	Cloudy	Moderate	13:41	11	B	10	3																												
SR12	18/5/2017	Mid-Ebb	Cloudy	Moderate	14:51	15	S	1	1	7.87																											
SR12	18/5/2017	Mid-Ebb	Cloudy	Moderate	14:51	15	S	1	2	7.87	7.87	29.11	29.11	25.90	25.91	25.91	87.7	87.6	87.7	5.96	5.97																
SR12	18/5/2017	Mid-Ebb	Cloudy	Moderate	14:51	15	S	1	3																												
SR12	18/5/2017	Mid-Ebb	Cloudy	Moderate	14:51	15	M	7	1	7.84																											
SR12	18/5/2017	Mid-Ebb	Cloudy	Moderate	14:51	15	M	7	2	7.85	7.85	29.73	29.73	25.67	25.66	25.66	85.0	85.1	85.1	5.86	5.85																
SR12	18/5/2017	Mid-Ebb	Cloudy	Moderate	14:51	15	M	7	3																												
SR12	18/5/2017	Mid-Ebb	Cloudy	Moderate	14:51	15	B	14	1	7.83																											
SR12	18/5/2017	Mid-Ebb	Cloudy	Moderate	14:51	15	B	14	2	7.83	7.83	29.96	29.96	25.52	25.52	25.52	81.4	81.5	81.5	5.60	5.62																
SR12	18/5/2017	Mid-Ebb	Cloudy	Moderate	14:51	15	B	14	3																												
SR13	18/5/2017	Mid-Ebb	Cloudy	Moderate	15:03	14	S	1	1	7.82																											
SR13	18/5/2017	Mid-Ebb	Cloudy	Moderate	15:03	14	S	1	2	7.83	7.83	30.28	30.28	25.43	25.44	25.44	79.5	79.4	79.5	5.38	5.37																
SR13	18/5/2017	Mid-Ebb	Cloudy	Moderate	15:03	14	S	1	3																												
SR13	18/5/2017	Mid-Ebb	Cloudy	Moderate	15:03	14	M	7	1	7.81																											
SR13	18/5/2017	Mid-Ebb	Cloudy	Moderate	15:03	14	M	7	2	7.81	7.81	30.36	30.37	25.40	25.40	25.40	75.1	74.9	75.0	5.22	5.23																
SR13	18/5/2017	Mid-Ebb	Cloudy	Moderate	15:03	14	M	7	3																												
SR13	18/5/2017	Mid-Ebb	Cloudy	Moderate	15:03	14	B	13	1	7.80																											
SR13	18/5/2017	Mid-Ebb	Cloudy	Moderate	15:03	14	B	13	2	7.80	7.80	30.43	30.43	25.32	25.33	25.33	73.8	73.9	73.9	5.10	5.09																
SR13	18/5/2017	Mid-Ebb	Cloudy	Moderate	15:03	14	B	13	3																												

Note: 1. Depth Ave.: (Except E.coli) "Depth-averaged" is calculated by taking the arithmetic means for the reading of the surface, middle and bottom depths  
 2. ND: Not Detected  
 3. Depth Averaged of E.coli is calculated by taking geometric mean of the readings of the surface, middle and bottom, all ND sample results (<1) for E.coli is regarded as 1 in calculating the geometric mean.



Impact Monitoring Data

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	Laboratory Analysis																										
										Total Suspended Solids (mg/L)			Ammonia Nitrogen (mg/L-N)			UIA (mg/L-N)			TIN-Ammonia (mg/L-N)	TIN-Nitrate (mg/L-N)	TIN-Nitrite (mg/L-N)	Total Inorganic Nitrogen (mg/L-N)			E.coli (cfu/100mL)			Synthetic Detergent (mg/L)			BOD <sub>5</sub> (mg/L)					
										Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Value	Value	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.
C1A	18/5/2017	Mid-Ebb	Cloudy	Moderate	13:30	28	S	1	1	6	6	0.04	0.04	0.05	0.001	0.001	0.002	0.04	0.53	0.04	0.61	0.61	94	88	91	NA	NA	NA	2	1	2					
C1A	18/5/2017	Mid-Ebb	Cloudy	Moderate	13:30	28	S	1	2	5																										
C1A	18/5/2017	Mid-Ebb	Cloudy	Moderate	13:30	28	S	1	3	3																										
C1A	18/5/2017	Mid-Ebb	Cloudy	Moderate	13:30	28	M	14	1	6	5	0.05	0.06	0.05	0.002	0.002	0.002	0.05	0.53	0.03	0.61	0.61	26	20	23	NA	NA	NA	1	1	2					
C1A	18/5/2017	Mid-Ebb	Cloudy	Moderate	13:30	28	M	14	2	4																										
C1A	18/5/2017	Mid-Ebb	Cloudy	Moderate	13:30	28	M	14	3	3																										
C1A	18/5/2017	Mid-Ebb	Cloudy	Moderate	13:30	28	B	27	1	9	8	0.05	0.07	0.05	0.001	0.002	0.002	0.05	0.52	0.03	0.60	0.60	23	19	21	NA	NA	NA	2	2	2					
C1A	18/5/2017	Mid-Ebb	Cloudy	Moderate	13:30	28	B	27	2	7																										
C1A	18/5/2017	Mid-Ebb	Cloudy	Moderate	13:30	28	B	27	3	3																										
C2A	18/5/2017	Mid-Ebb	Cloudy	Moderate	15:20	14	S	1	1	10	11	0.28	0.30	0.28	0.008	0.009	0.009	0.28	0.34	0.03	0.65	0.67	29	34	31	NA	NA	NA	2	1	2					
C2A	18/5/2017	Mid-Ebb	Cloudy	Moderate	15:20	14	S	1	2	11																										
C2A	18/5/2017	Mid-Ebb	Cloudy	Moderate	15:20	14	S	1	3	3																										
C2A	18/5/2017	Mid-Ebb	Cloudy	Moderate	15:20	14	M	7	1	8	8	0.26	0.27	0.29	0.007	0.007	0.008	0.26	0.36	0.02	0.64	0.64	0.65	30	33	31	NA	NA	NA	1	1	1				
C2A	18/5/2017	Mid-Ebb	Cloudy	Moderate	15:20	14	M	7	2	7																										
C2A	18/5/2017	Mid-Ebb	Cloudy	Moderate	15:20	14	M	7	3	3																										
C2A	18/5/2017	Mid-Ebb	Cloudy	Moderate	15:20	14	B	13	1	6	6	0.31	0.31	0.31	0.008	0.008	0.008	0.31	0.33	0.02	0.66	0.65	21	17	19	NA	NA	NA	1	1	1					
C2A	18/5/2017	Mid-Ebb	Cloudy	Moderate	15:20	14	B	13	2	5																										
C2A	18/5/2017	Mid-Ebb	Cloudy	Moderate	15:20	14	B	13	3	3																										
G2	18/5/2017	Mid-Ebb	Cloudy	Moderate	14:10	12	S	1	1	7	7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61					
G2	18/5/2017	Mid-Ebb	Cloudy	Moderate	14:10	12	S	1	2	6																										
G2	18/5/2017	Mid-Ebb	Cloudy	Moderate	14:10	12	S	1	3	3																										
G2	18/5/2017	Mid-Ebb	Cloudy	Moderate	14:10	12	M	6	1	7	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60					
G2	18/5/2017	Mid-Ebb	Cloudy	Moderate	14:10	12	M	6	2	5																										
G2	18/5/2017	Mid-Ebb	Cloudy	Moderate	14:10	12	M	6	3	3																										
G2	18/5/2017	Mid-Ebb	Cloudy	Moderate	14:10	12	B	11	1	5	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60					
G2	18/5/2017	Mid-Ebb	Cloudy	Moderate	14:10	12	B	11	2	3																										
G2	18/5/2017	Mid-Ebb	Cloudy	Moderate	14:10	12	B	11	3	3																										
SR2	18/5/2017	Mid-Ebb	Cloudy	Moderate	13:57	9	S	1	1	4	5	0.03	0.04	0.04	0.001	0.001	0.001	NA	NA	NA	NA	NA	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61					
SR2	18/5/2017	Mid-Ebb	Cloudy	Moderate	13:57	9	S	1	2	5																										
SR2	18/5/2017	Mid-Ebb	Cloudy	Moderate	13:57	9	S	1	3	3																										
SR2	18/5/2017	Mid-Ebb	Cloudy	Moderate	13:57	9	M	4	1	6	6	0.03	0.02	0.03	0.001	0.001	0.001	NA	NA	NA	NA	NA	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61					
SR2	18/5/2017	Mid-Ebb	Cloudy	Moderate	13:57	9	M	4	2	5																										
SR2	18/5/2017	Mid-Ebb	Cloudy	Moderate	13:57	9	M	4	3	3																										
SR2	18/5/2017	Mid-Ebb	Cloudy	Moderate	13:57	9	B	8	1	4	5	0.05	0.04	0.05	0.002	0.001	0.001	NA	NA	NA	NA	NA	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61					
SR2	18/5/2017	Mid-Ebb	Cloudy	Moderate	13:57	9	B	8	2	6																										
SR2	18/5/2017	Mid-Ebb	Cloudy	Moderate	13:57	9	B	8	3	3																										
SR3	18/5/2017	Mid-Ebb	Cloudy	Moderate	14:23	8	S	1	1	5	6	0.03	0.03	0.03	0.001	0.001	0.001	NA	NA	NA	NA	NA	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61					
SR3	18/5/2017	Mid-Ebb	Cloudy	Moderate	14:23	8	S	1	2	6																										
SR3	18/5/2017	Mid-Ebb	Cloudy	Moderate	14:23	8	S	1	3	3																										
SR3	18/5/2017	Mid-Ebb	Cloudy	Moderate	14:23	8	M	4	1	4	5	0.03	0.03	0.03	0.001	0.001	0.001	NA	NA	NA	NA	NA	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61					
SR3	18/5/2017	Mid-Ebb	Cloudy	Moderate	14:23	8	M	4	2	6																										
SR3	18/5/2017	Mid-Ebb	Cloudy	Moderate	14:23	8	M	4	3	3																										
SR3	18/5/2017	Mid-Ebb	Cloudy	Moderate	14:23	8	B	7	1	4	4	0.01	0.04	0.03	0.000	0.001	0.001	NA	NA	NA	NA	NA	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61					
SR3	18/5/2017	Mid-Ebb	Cloudy	Moderate	14:23	8	B	7	2	4																										
SR3	18/5/2017	Mid-Ebb	Cloudy	Moderate	14:23	8	B	7	3	3																										













Impact Monitoring Data

Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	In-situ Measurement																											
										pH		Salinity (ppt)		Temperature (degree C)		DO Saturation (%)		DO (mg/L)		Turbidity (NTU)			Ammonia (mg/L-N)			UIA (mg/L-N)			TIN-Ammonia (mg/L-N)	TIN-Nitrite (mg/L-N)	TIN-Nitrate (mg/L-N)	Total Inorganic Nitrogen (mg/L-N)					
										Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	Value	Ave.	S & M Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Value	Value	Value	Ave.	Depth Ave.
SR4	20/5/2017	Mid-Ebb	Windv	Moderate	8:05	4	S	1	1	7.84																											
SR4	20/5/2017	Mid-Ebb	Windv	Moderate	8:05	4	S	1	2	7.84	7.84	28.29	28.29	25.39	25.38	25.39	80.7	80.8	80.8	5.67	5.67																
SR4	20/5/2017	Mid-Ebb	Windv	Moderate	8:05	4	S	1	3																												
SR4	20/5/2017	Mid-Ebb	Windv	Moderate	8:05	4	M		1																												
SR4	20/5/2017	Mid-Ebb	Windv	Moderate	8:05	4	M		2		NA		NA		NA																						
SR4	20/5/2017	Mid-Ebb	Windv	Moderate	8:05	4	M		3																												
SR4	20/5/2017	Mid-Ebb	Windv	Moderate	8:05	4	B	3	1	7.80	7.81	29.70	29.70	24.40	24.90	24.90	79.4	79.6	79.5	5.52	5.53																
SR4	20/5/2017	Mid-Ebb	Windv	Moderate	8:05	4	B	3	2	7.81																											
SR4	20/5/2017	Mid-Ebb	Windv	Moderate	8:05	4	B	3	3																												
SR5	20/5/2017	Mid-Ebb	Windv	Moderate	9:30	11	S	1	1	7.90	7.90	26.39	26.40	25.39	25.39	25.39	91.5	91.8	91.7	6.47	6.48																
SR5	20/5/2017	Mid-Ebb	Windv	Moderate	9:30	11	S	1	2	7.90																											
SR5	20/5/2017	Mid-Ebb	Windv	Moderate	9:30	11	S	1	3																												
SR5	20/5/2017	Mid-Ebb	Windv	Moderate	9:30	11	M	5.5	1	7.87	7.87	26.83	26.83	25.50	25.51	25.51	89.4	89.6	89.5	6.29	6.30																
SR5	20/5/2017	Mid-Ebb	Windv	Moderate	9:30	11	M	5.5	2	7.87																											
SR5	20/5/2017	Mid-Ebb	Windv	Moderate	9:30	11	M	5.5	3																												
SR5	20/5/2017	Mid-Ebb	Windv	Moderate	9:30	11	B	10	1	7.87	7.87	27.11	27.11	25.47	25.48	25.48	88.2	88.2	88.2	6.20	6.20																
SR5	20/5/2017	Mid-Ebb	Windv	Moderate	9:30	11	B	10	2	7.86																											
SR5	20/5/2017	Mid-Ebb	Windv	Moderate	9:30	15	B	10	3																												
SR12	20/5/2017	Mid-Ebb	Windv	Moderate	7:45	15	S	1	1	7.81	7.81	28.47	28.48	25.36	25.36	25.36	82.1	82.1	82.1	5.74	5.74																
SR12	20/5/2017	Mid-Ebb	Windv	Moderate	7:45	15	S	1	2	7.81																											
SR12	20/5/2017	Mid-Ebb	Windv	Moderate	7:45	15	S	1	3																												
SR12	20/5/2017	Mid-Ebb	Windv	Moderate	7:45	15	M	7.5	1	7.79	7.79	28.81	28.81	25.36	25.35	25.35	80.1	80.3	80.2	5.54	5.55																
SR12	20/5/2017	Mid-Ebb	Windv	Moderate	7:45	15	M	7.5	2	7.79																											
SR12	20/5/2017	Mid-Ebb	Windv	Moderate	7:45	15	M	7.5	3																												
SR12	20/5/2017	Mid-Ebb	Windv	Moderate	7:45	15	B	14	1	7.78	7.78	29.06	29.08	25.36	25.36	25.36	78.3	78.2	78.3	5.46	5.46																
SR12	20/5/2017	Mid-Ebb	Windv	Moderate	7:45	15	B	14	2	7.78																											
SR12	20/5/2017	Mid-Ebb	Windv	Moderate	7:45	15	B	14	3																												
SR13	20/5/2017	Mid-Ebb	Windv	Moderate	7:20	14	S	1	1	7.72	7.72	30.33	30.33	25.27	25.27	25.27	73.5	73.4	73.5	4.10	4.10																
SR13	20/5/2017	Mid-Ebb	Windv	Moderate	7:20	14	S	1	2	7.72																											
SR13	20/5/2017	Mid-Ebb	Windv	Moderate	7:20	14	S	1	3																												
SR13	20/5/2017	Mid-Ebb	Windv	Moderate	7:20	14	M	7	1	7.71	7.71	30.29	30.29	25.27	25.27	25.27	72.8	72.7	72.8	5.02	5.01																
SR13	20/5/2017	Mid-Ebb	Windv	Moderate	7:20	14	M	7	2	7.71																											
SR13	20/5/2017	Mid-Ebb	Windv	Moderate	7:20	14	M	7	3																												
SR13	20/5/2017	Mid-Ebb	Windv	Moderate	7:20	14	B	13	1	7.71	7.71	30.28	30.29	25.27	25.27	25.27	72.4	72.4	72.4	5.01	5.01																
SR13	20/5/2017	Mid-Ebb	Windv	Moderate	7:20	14	B	13	2	7.71																											
SR13	20/5/2017	Mid-Ebb	Windv	Moderate	7:20	14	B	13	3																												

- Note: 1. Depth Ave.: (Except E.coli) "Depth-averaged" is calculated by taking the arithmetic means for the reading of the surface, middle and bottom depths  
 2. ND: Not Detected  
 3. Depth Averaged of E.coli is calculated by taking geometric mean of the readings of the surface, middle and bottom, all ND sample results (<1) for E.coli is regarded as 1 in calculating the geometric mean.



Impact Monitoring Data

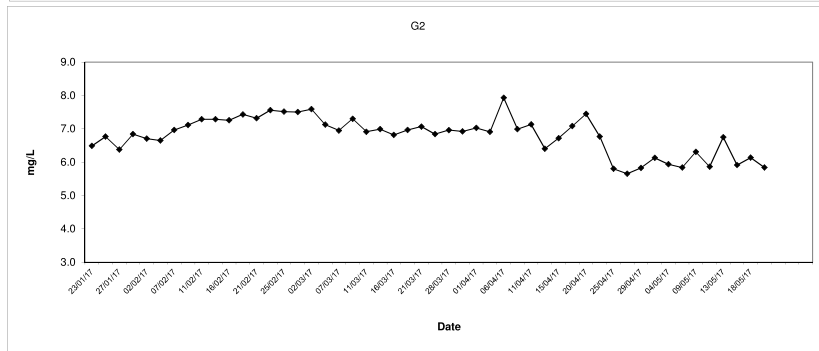
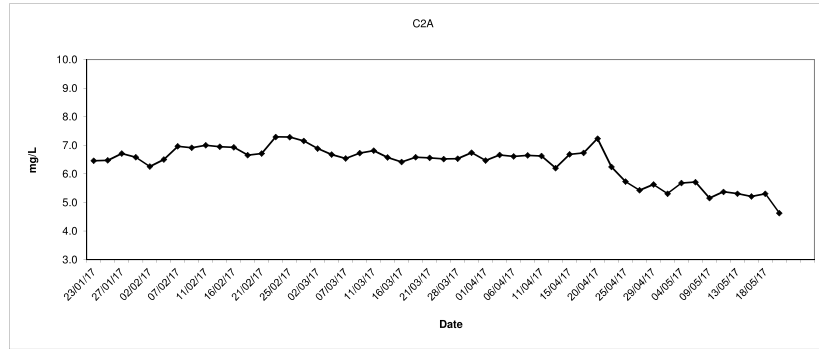
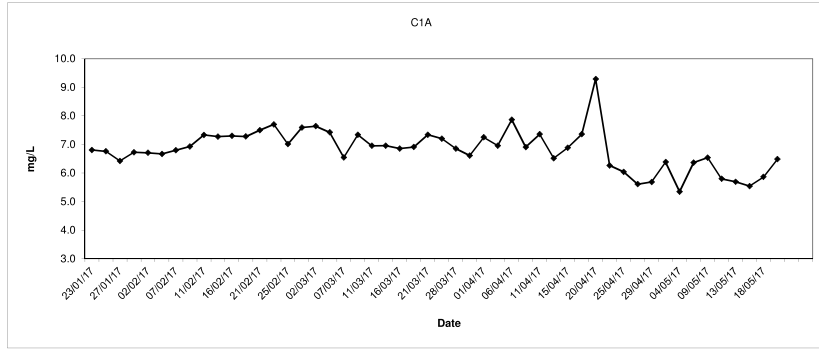
Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	Laboratory Analysis																							
										Total Suspended Solids (mg/L)			Ammonia Nitrogen (mg/L-N)			UIA (mg/L-N)			TIN-Ammonia (mg/L-N)	TIN-Nitrate (mg/L-N)	TIN-Nitrite (mg/L-N)	Total Inorganic Nitrogen (mg/L-N)			E.coli (cfu/100mL)			Synthetic Detergent (mg/L)			BOD <sub>5</sub> (mg/L)		
										Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Value	Value	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.
C1A	20/5/2017	Mid-Ebb	Windy	Moderate	10:00	28	S	1	1	8																							
C1A	20/5/2017	Mid-Ebb	Windy	Moderate	10:00	28	S	1	2	7																							
C1A	20/5/2017	Mid-Ebb	Windy	Moderate	10:00	28	S	1	3																								
C1A	20/5/2017	Mid-Ebb	Windy	Moderate	10:00	28	M	14	1	7																							
C1A	20/5/2017	Mid-Ebb	Windy	Moderate	10:00	28	M	14	2	5																							
C1A	20/5/2017	Mid-Ebb	Windy	Moderate	10:00	28	M	14	3																								
C1A	20/5/2017	Mid-Ebb	Windy	Moderate	10:00	28	B	27	1	<1																							
C1A	20/5/2017	Mid-Ebb	Windy	Moderate	10:00	28	B	27	2	2																							
C1A	20/5/2017	Mid-Ebb	Windy	Moderate	10:00	28	B	27	3																								
C2A	20/5/2017	Mid-Ebb	Windy	Moderate	7:00	14	S	1	1	9																							
C2A	20/5/2017	Mid-Ebb	Windy	Moderate	7:00	14	S	1	2	9																							
C2A	20/5/2017	Mid-Ebb	Windy	Moderate	7:00	14	S	1	3																								
C2A	20/5/2017	Mid-Ebb	Windy	Moderate	7:00	14	M	7	1	7																							
C2A	20/5/2017	Mid-Ebb	Windy	Moderate	7:00	14	M	7	2	6																							
C2A	20/5/2017	Mid-Ebb	Windy	Moderate	7:00	14	M	7	3																								
C2A	20/5/2017	Mid-Ebb	Windy	Moderate	7:00	14	B	13	1	7																							
C2A	20/5/2017	Mid-Ebb	Windy	Moderate	7:00	14	B	13	2	8																							
C2A	20/5/2017	Mid-Ebb	Windy	Moderate	7:00	14	B	13	3																								
G2	20/5/2017	Mid-Ebb	Windy	Moderate	8:45	12	S	1	1	7																							
G2	20/5/2017	Mid-Ebb	Windy	Moderate	8:45	12	S	1	2	7																							
G2	20/5/2017	Mid-Ebb	Windy	Moderate	8:45	12	S	1	3																								
G2	20/5/2017	Mid-Ebb	Windy	Moderate	8:45	12	M	6	1	5																							
G2	20/5/2017	Mid-Ebb	Windy	Moderate	8:45	12	M	6	2	5																							
G2	20/5/2017	Mid-Ebb	Windy	Moderate	8:45	12	M	6	3																								
G2	20/5/2017	Mid-Ebb	Windy	Moderate	8:45	12	B	11	1	5																							
G2	20/5/2017	Mid-Ebb	Windy	Moderate	8:45	12	B	11	2	4																							
G2	20/5/2017	Mid-Ebb	Windy	Moderate	8:45	12	B	11	3																								
SR2	20/5/2017	Mid-Ebb	Windy	Moderate	9:30	9	S	1	1	4																							
SR2	20/5/2017	Mid-Ebb	Windy	Moderate	9:30	9	S	1	2	3																							
SR2	20/5/2017	Mid-Ebb	Windy	Moderate	9:30	9	S	1	3																								
SR2	20/5/2017	Mid-Ebb	Windy	Moderate	9:30	9	M	4.5	1	3																							
SR2	20/5/2017	Mid-Ebb	Windy	Moderate	9:30	9	M	4.5	2	5																							
SR2	20/5/2017	Mid-Ebb	Windy	Moderate	9:30	9	M	4.5	3																								
SR2	20/5/2017	Mid-Ebb	Windy	Moderate	9:30	9	B	8	1	2																							
SR2	20/5/2017	Mid-Ebb	Windy	Moderate	9:30	9	B	8	2	2																							
SR2	20/5/2017	Mid-Ebb	Windy	Moderate	9:30	9	B	8	3																								
SR3	20/5/2017	Mid-Ebb	Windy	Moderate	8:25	8	S	1	1	3																							
SR3	20/5/2017	Mid-Ebb	Windy	Moderate	8:25	8	S	1	2	2																							
SR3	20/5/2017	Mid-Ebb	Windy	Moderate	8:25	8	S	1	3																								
SR3	20/5/2017	Mid-Ebb	Windy	Moderate	8:25	8	M	4	1	2																							
SR3	20/5/2017	Mid-Ebb	Windy	Moderate	8:25	8	M	4	2	2																							
SR3	20/5/2017	Mid-Ebb	Windy	Moderate	8:25	8	M	4	3																								
SR3	20/5/2017	Mid-Ebb	Windy	Moderate	8:25	8	B	7	1	2																							
SR3	20/5/2017	Mid-Ebb	Windy	Moderate	8:25	8	B	7	2	2																							
SR3	20/5/2017	Mid-Ebb	Windy	Moderate	8:25	8	B	7	3																								

Impact Monitoring Data

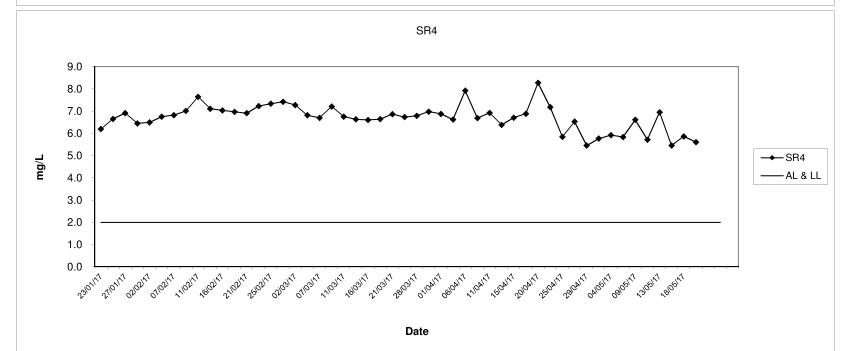
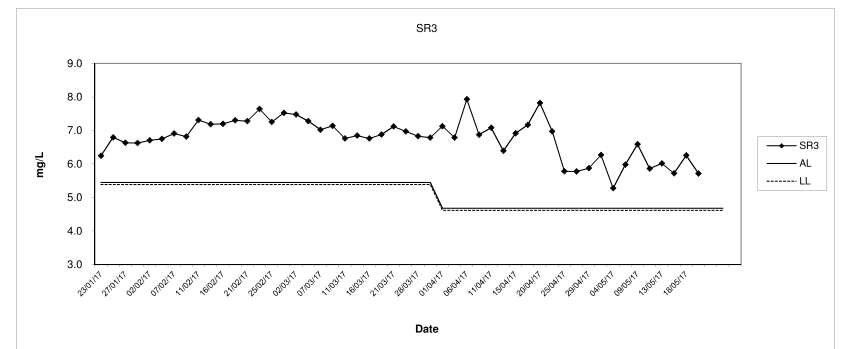
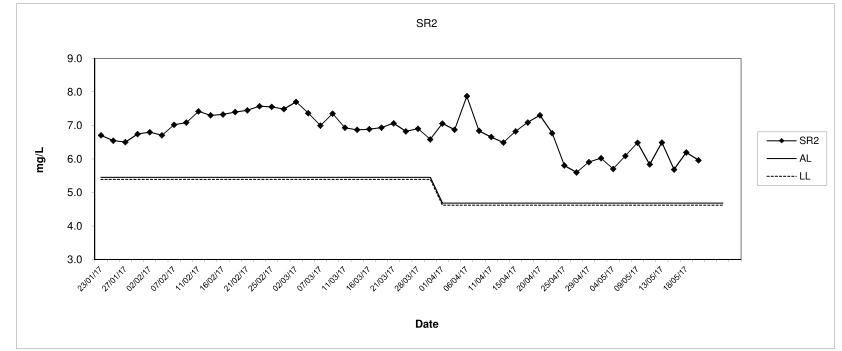
Monitoring Location	Date	Tide Mode	Weather	Sea Condition	Time	Water Depth (m)	Monitoring Level	Monitoring Level (m)	Replicate	Laboratory Analysis																																
										Total Suspended Solids (mg/L)			Ammonia Nitrogen (mg/L-N)			UIA (mg/L-N)			TIN-Ammonia (mg/L-N)	TIN-Nitrate (mg/L-N)	TIN-Nitrite (mg/L-N)	Total Inorganic Nitrogen (mg/L-N)			E.coli (cfu/100mL)			Synthetic Detergent (mg/L)			BOD <sub>5</sub> (mg/L)											
										Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Value	Value	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.	Value	Ave.	Depth Ave.									
SR4	20/5/2017	Mid-Ebb	Windy	Moderate	8:05	4	S	1	1	7	8	0.16	0.16	0.16	0.005	0.005	0.005	NA	NA	NA	NA	NA	980	907	890	NA	NA	NA	<1	<1	1	1										
SR4	20/5/2017	Mid-Ebb	Windy	Moderate	8:05	4	S	1	2	9		0.16	0.16		0.005	0.005		NA	NA	NA	NA		NA	NA		940	873		NA	NA	NA		NA	NA	NA	<1	<1	1				
SR4	20/5/2017	Mid-Ebb	Windy	Moderate	8:05	4	S	1	3	4		0.16	0.16		0.005	0.005		NA	NA	NA	NA		NA	NA		810	873		NA	NA	NA		NA	NA	NA	NA	NA	<1	<1	1		
SR4	20/5/2017	Mid-Ebb	Windy	Moderate	8:05	4	M	1	1	1	NA	NA	NA	0.16	NA	NA	0.005	NA	NA	NA	NA	NA	NA	NA	890	NA	NA	NA	NA	NA	NA	NA	NA									
SR4	20/5/2017	Mid-Ebb	Windy	Moderate	8:05	4	M	2	2	2		NA	NA		0.005	0.005		NA	NA	NA	NA		NA	NA		NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA				
SR4	20/5/2017	Mid-Ebb	Windy	Moderate	8:05	4	M	3	3	3		0.16	0.17		0.005	0.005		NA	NA	NA	NA		NA	NA		NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SR5	20/5/2017	Mid-Ebb	Windy	Moderate	9:30	11	S	1	1	3	4	NA	NA	NA	NA	NA	NA	0.08	0.61	0.04	0.73	0.74	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA									
SR5	20/5/2017	Mid-Ebb	Windy	Moderate	9:30	11	S	1	2	4		NA	NA		0.06	0.61		0.05	0.76	0.10	0.61		0.05	0.76		0.07	0.62		0.04	0.73	0.06	0.60	0.04	0.70	0.07	0.62	0.04	0.73	0.06	0.60	0.04	0.70
SR5	20/5/2017	Mid-Ebb	Windy	Moderate	9:30	11	S	1	3	3		NA	NA		0.06	0.60		0.04	0.72	0.06	0.60		0.04	0.72		0.07	0.62		0.04	0.73	0.06	0.60	0.04	0.70	0.07	0.62	0.04	0.73	0.06	0.60	0.04	0.70
SR5	20/5/2017	Mid-Ebb	Windy	Moderate	9:30	11	M	5.5	1	3	4	NA	NA	NA	NA	NA	NA	0.05	0.60	0.04	0.69	0.71	0.72	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA					
SR5	20/5/2017	Mid-Ebb	Windy	Moderate	9:30	11	M	5.5	2	4		NA	NA		0.05	0.60		0.04	0.69	0.06	0.60		0.04	0.70	0.06		0.60	0.04		0.70	0.06	0.60	0.04	0.70	0.06	0.60	0.04	0.70	0.06	0.60	0.04	0.70
SR5	20/5/2017	Mid-Ebb	Windy	Moderate	9:30	11	M	5.5	3	3		NA	NA		0.06	0.60		0.04	0.70	0.06	0.60		0.04	0.70	0.06		0.60	0.04		0.70	0.06	0.60	0.04	0.70	0.06	0.60	0.04	0.70	0.06	0.60	0.04	0.70
SR5	20/5/2017	Mid-Ebb	Windy	Moderate	9:30	11	B	10	1	4	4	NA	NA	NA	NA	NA	NA	0.06	0.60	0.04	0.70	0.71	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA					
SR5	20/5/2017	Mid-Ebb	Windy	Moderate	9:30	11	B	10	2	4		NA	NA		0.06	0.60		0.04	0.70	0.06	0.60		0.04	0.70		0.06	0.60		0.04	0.70	0.06	0.60	0.04	0.70	0.06	0.60	0.04	0.70	0.06	0.60	0.04	0.70
SR5	20/5/2017	Mid-Ebb	Windy	Moderate	9:30	15	B	10	3	3		NA	NA		0.08	0.60		0.04	0.72	0.08	0.60		0.04	0.72		0.08	0.60		0.04	0.72	0.08	0.60	0.04	0.72	0.08	0.60	0.04	0.72	0.08	0.60	0.04	0.72
SR12	20/5/2017	Mid-Ebb	Windy	Moderate	7:45	15	S	1	1	4	4	0.18	0.18	0.20	0.005	0.005	0.006	NA	NA	NA	NA	NA	360	384	337	NA	NA	NA	<1	<1	1	1										
SR12	20/5/2017	Mid-Ebb	Windy	Moderate	7:45	15	S	1	2	3		0.17	0.18		0.005	0.005		NA	NA	NA	NA		NA	NA		410	384		NA	NA	NA		NA	NA	NA	<1	<1	1				
SR12	20/5/2017	Mid-Ebb	Windy	Moderate	7:45	15	S	1	3	3		0.16	0.18		0.005	0.006		NA	NA	NA	NA		NA	NA		620	573		NA	NA	NA		NA	NA	NA	<1	<1	1				
SR12	20/5/2017	Mid-Ebb	Windy	Moderate	7:45	15	M	7.5	1	10	9	0.20	0.18	0.20	0.005	0.005	0.006	NA	NA	NA	NA	NA	NA	NA	337	NA	NA	NA	<1	<1	1	1										
SR12	20/5/2017	Mid-Ebb	Windy	Moderate	7:45	15	M	7.5	2	8		0.20	0.18		0.006	0.006		NA	NA	NA	NA		NA	NA		530	573		NA	NA	NA		NA	NA	NA	<1	<1	1				
SR12	20/5/2017	Mid-Ebb	Windy	Moderate	7:45	15	M	7.5	3	3		0.24	0.24		0.007	0.007		NA	NA	NA	NA		NA	NA		160	174		NA	NA	NA		NA	NA	NA	<1	<1	1				
SR12	20/5/2017	Mid-Ebb	Windy	Moderate	7:45	15	B	14	1	8	9	0.24	0.24	0.20	0.007	0.007	0.007	NA	NA	NA	NA	NA	190	174	337	NA	NA	NA	<1	<1	1	1										
SR12	20/5/2017	Mid-Ebb	Windy	Moderate	7:45	15	B	14	2	9		0.24	0.24		0.007	0.007		NA	NA	NA	NA		NA	NA		190	174		NA	NA	NA		NA	NA	NA	<1	<1	1				
SR12	20/5/2017	Mid-Ebb	Windy	Moderate	7:45	15	B	14	3	3		0.24	0.24		0.007	0.007		NA	NA	NA	NA		NA	NA		190	174		NA	NA	NA		NA	NA	NA	<1	<1	1				
SR13	20/5/2017	Mid-Ebb	Windy	Moderate	7:20	14	S	1	1	5	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
SR13	20/5/2017	Mid-Ebb	Windy	Moderate	7:20	14	S	1	2	7		NA	NA		NA	NA		NA	NA	NA	NA		NA	NA		NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR13	20/5/2017	Mid-Ebb	Windy	Moderate	7:20	14	S	1	3	3		NA	NA		NA	NA		NA	NA	NA	NA		NA	NA		NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR13	20/5/2017	Mid-Ebb	Windy	Moderate	7:20	14	M	7	1	6	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
SR13	20/5/2017	Mid-Ebb	Windy	Moderate	7:20	14	M	7	2	4		NA	NA		NA	NA		NA	NA	NA	NA		NA	NA		NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR13	20/5/2017	Mid-Ebb	Windy	Moderate	7:20	14	M	7	3	3		NA	NA		NA	NA		NA	NA	NA	NA		NA	NA		NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR13	20/5/2017	Mid-Ebb	Windy	Moderate	7:20	14	B	13	1	6	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
SR13	20/5/2017	Mid-Ebb	Windy	Moderate	7:20	14	B	13	2	5		NA	NA		NA	NA		NA	NA	NA	NA		NA	NA		NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR13	20/5/2017	Mid-Ebb	Windy	Moderate	7:20	14	B	13	3	3		NA	NA		NA	NA		NA	NA	NA	NA		NA	NA		NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SR13	20/5/2017	Mid-Ebb	Windy	Moderate	7:20	14	B	13	2	5	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
SR13	20/5/2017	Mid-Ebb	Windy	Moderate	7:20	14	B	13	2	5		NA	NA		NA	NA		NA	NA	NA	NA		NA	NA		NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SR13	20/5/2017	Mid-Ebb	Windy	Moderate	7:20	14	B	13	3	3		NA	NA		NA	NA		NA	NA	NA	NA		NA	NA		NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	

Note: 1. Depth Ave.: (Except E.coli) "Depth-averaged" is calculated by taking the arithmetic means for the reading of the surface, middle and bottom depths  
 2. ND: Not Detected  
 3. Depth Averaged of E.coli is calculated by taking geometric mean of the readings of the surface, middle and bottom, all ND sample results (<1) for E.coli is regarded as 1 in calculating the geometric mean.

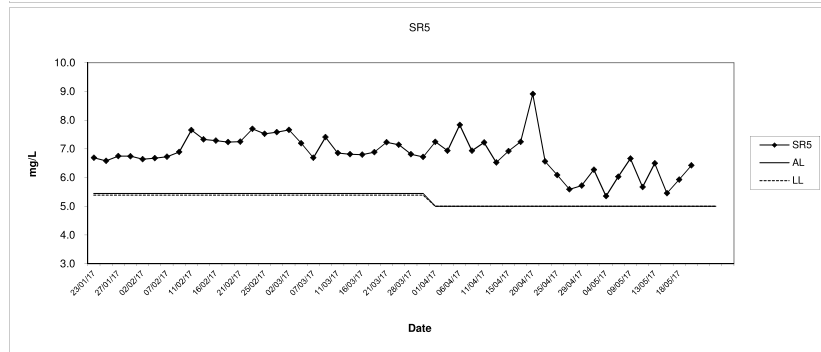
Dissolved Oxygen (Surface and Middle) at Mid-Flood Tide



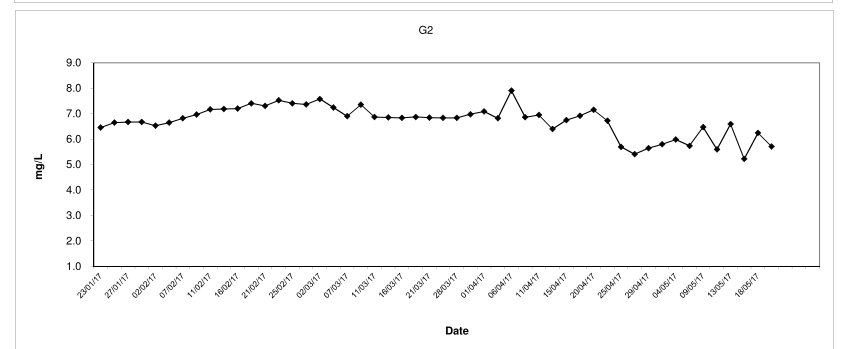
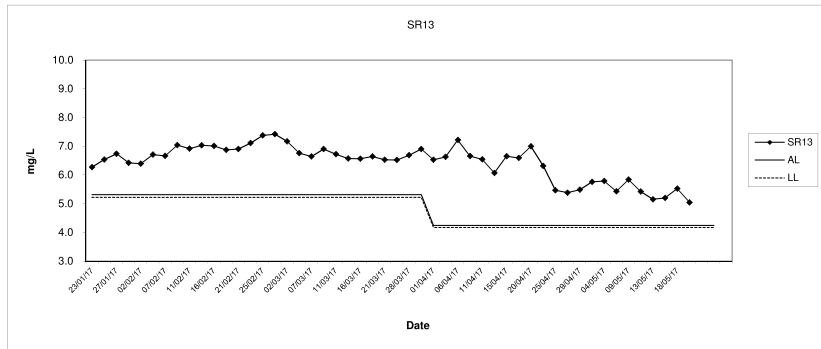
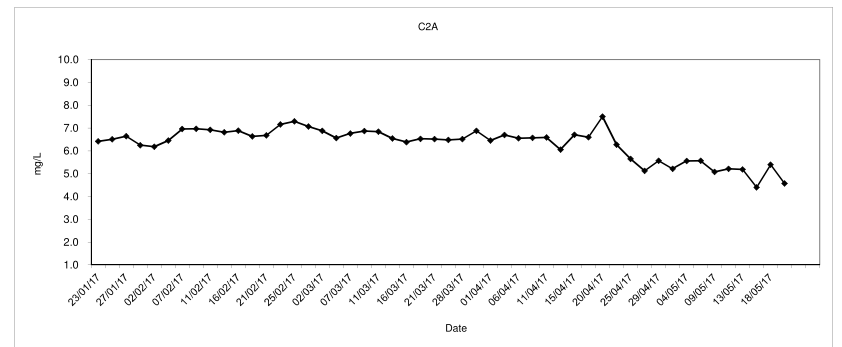
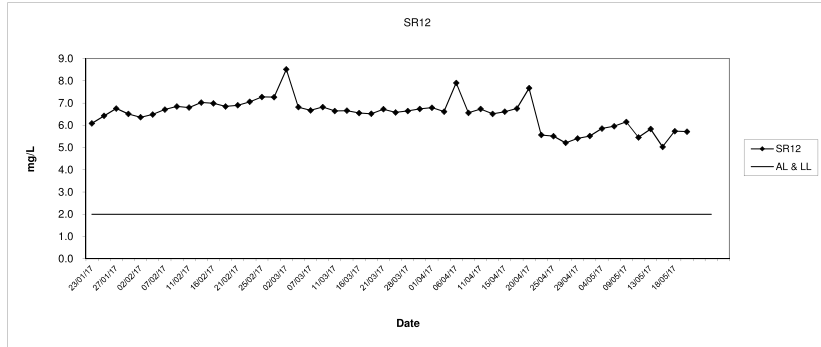
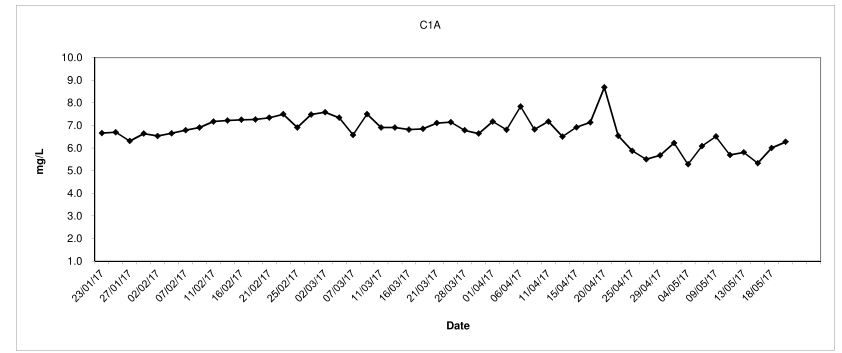
Dissolved Oxygen (Surface and Middle) at Mid-Flood Tide



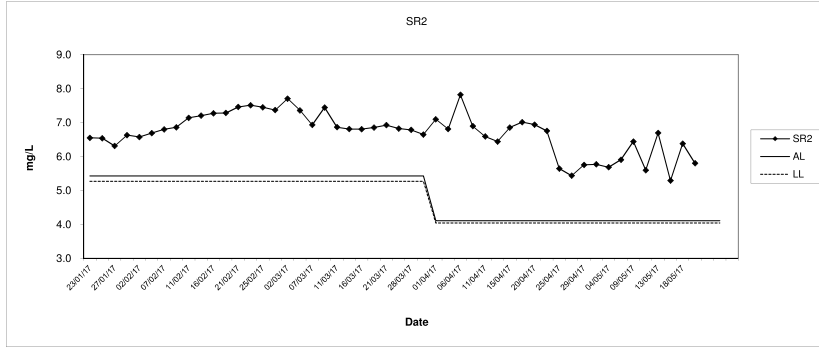
Dissolved Oxygen (Surface and Middle) at Mid-Flood Tide



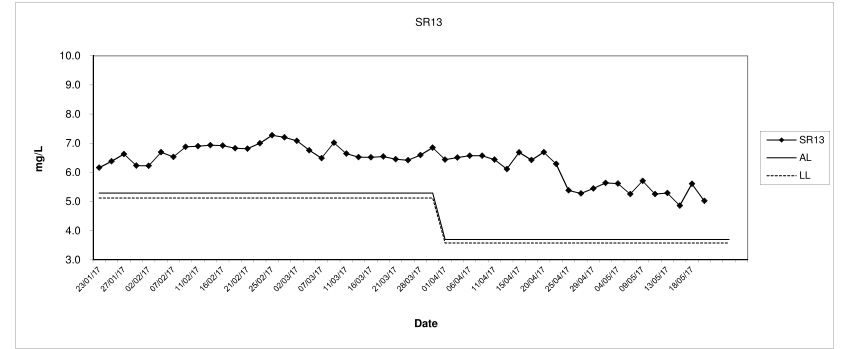
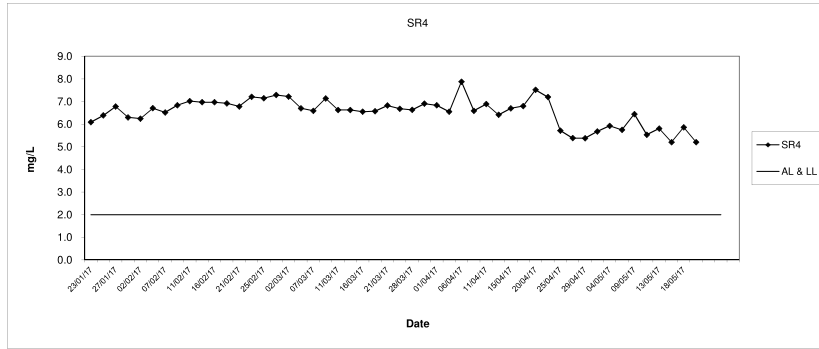
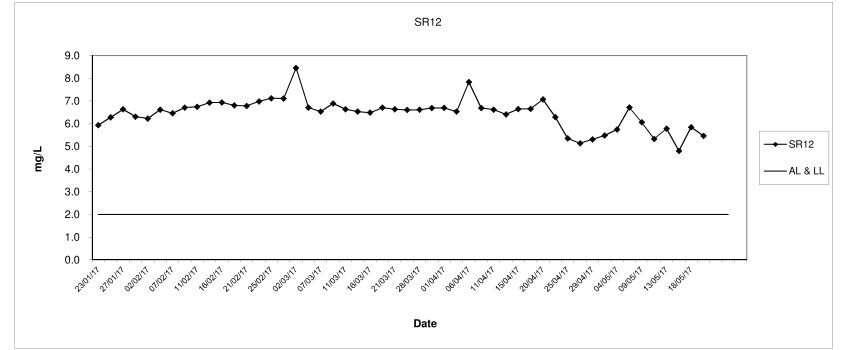
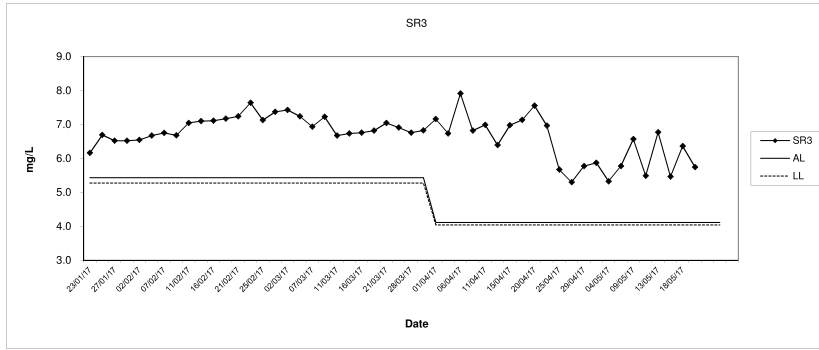
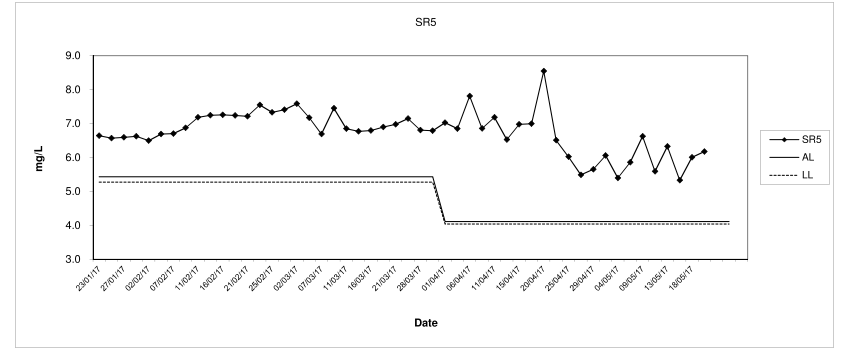
Dissolved Oxygen (Bottom) at Mid-Flood Tide



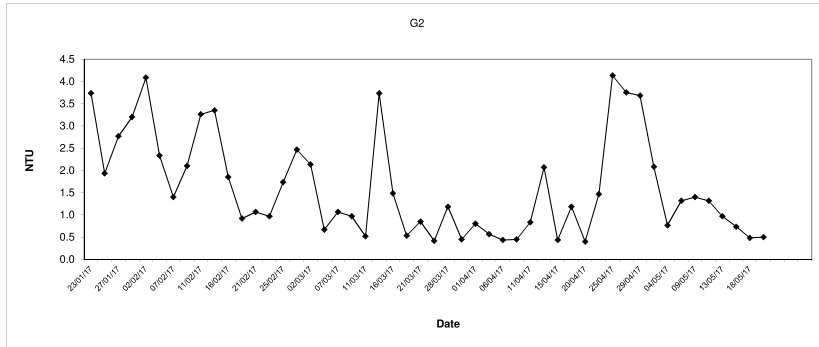
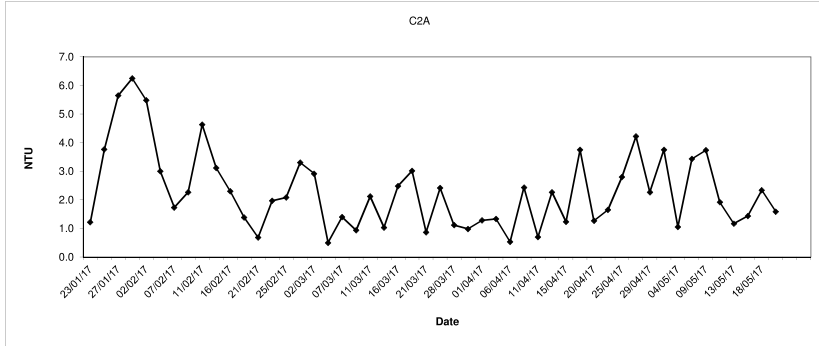
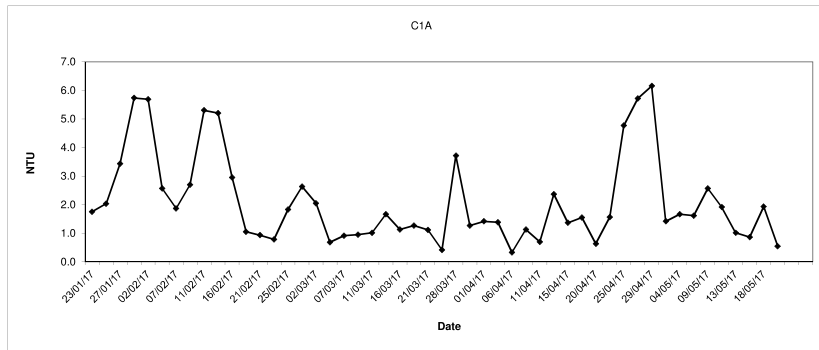
Dissolved Oxygen (Bottom) at Mid-Flood Tide



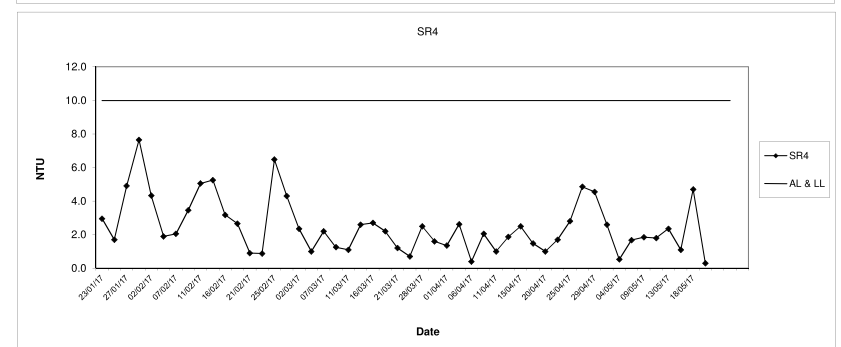
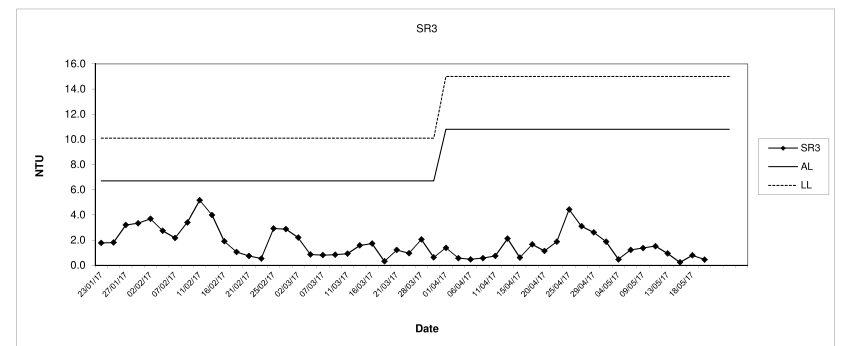
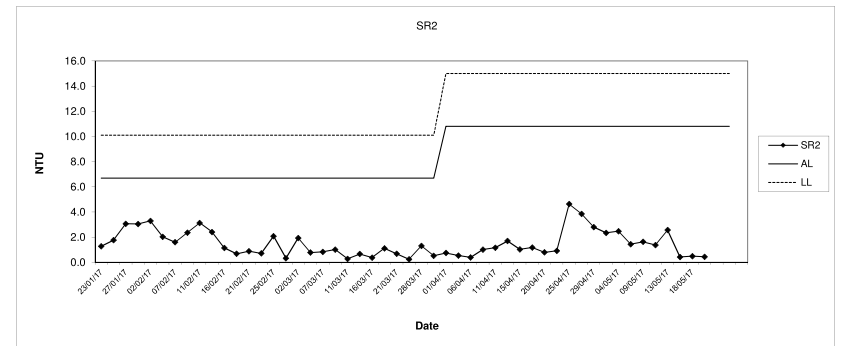
Dissolved Oxygen (Bottom) at Mid-Flood Tide



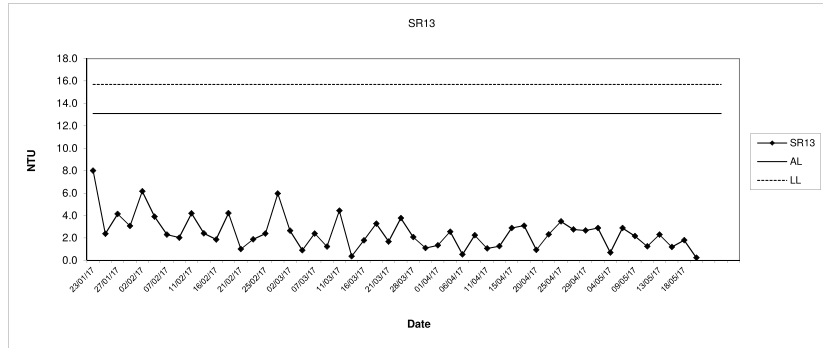
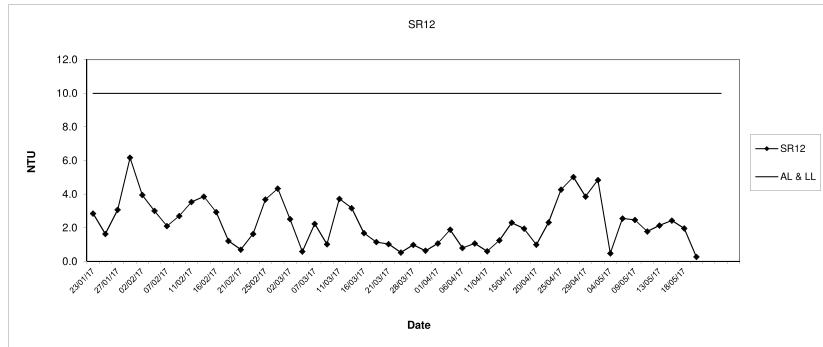
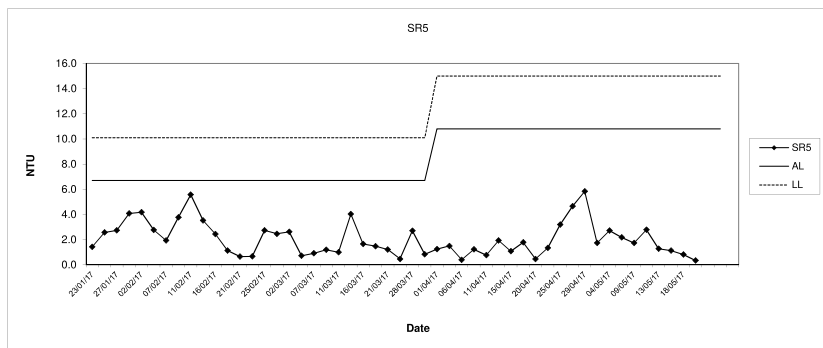
Turbidity (Depth average) at Mid-Flood Tide



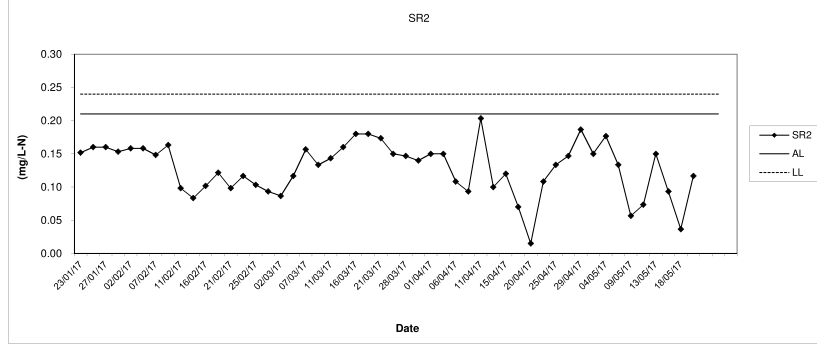
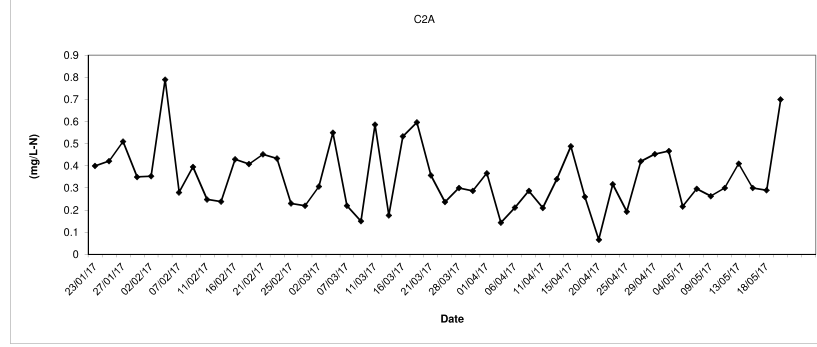
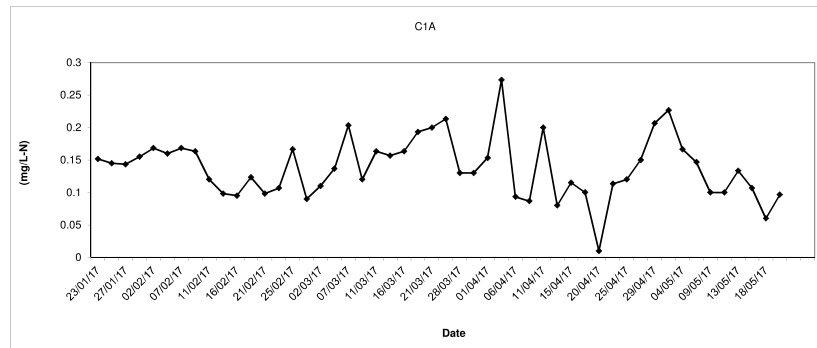
Turbidity (Depth average) at Mid-Flood Tide



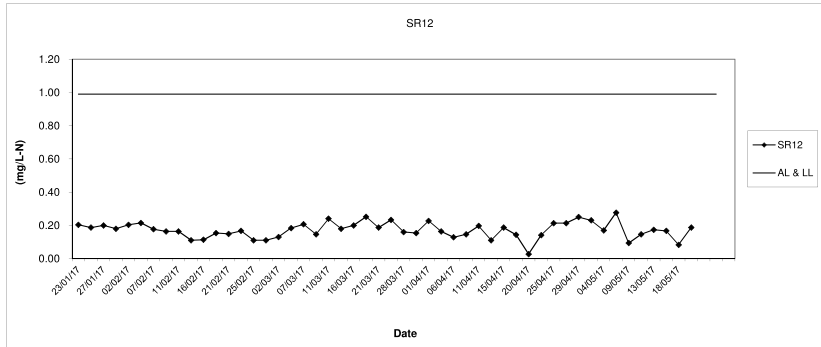
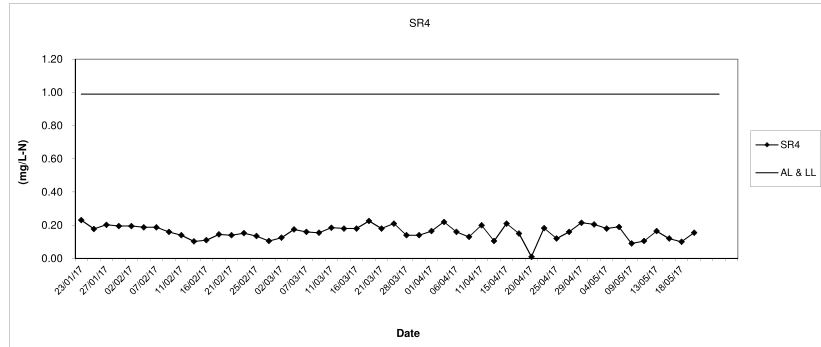
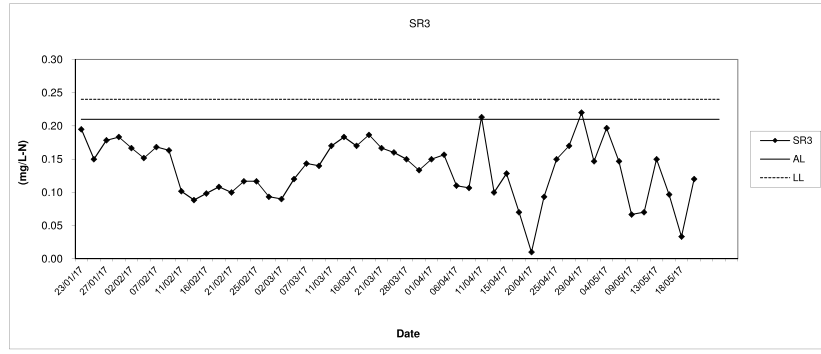
Turbidity (Depth average) at Mid-Flood Tide



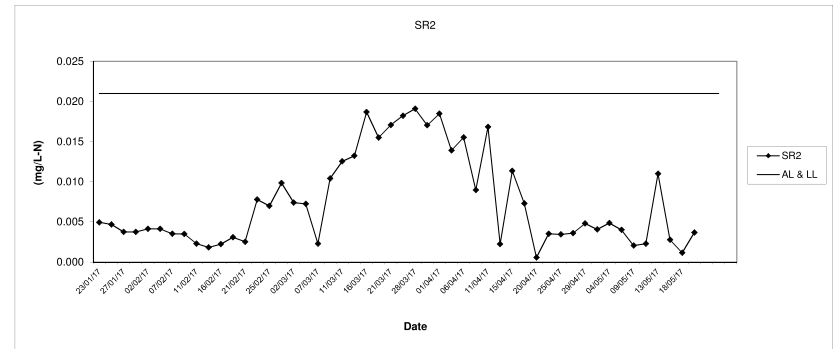
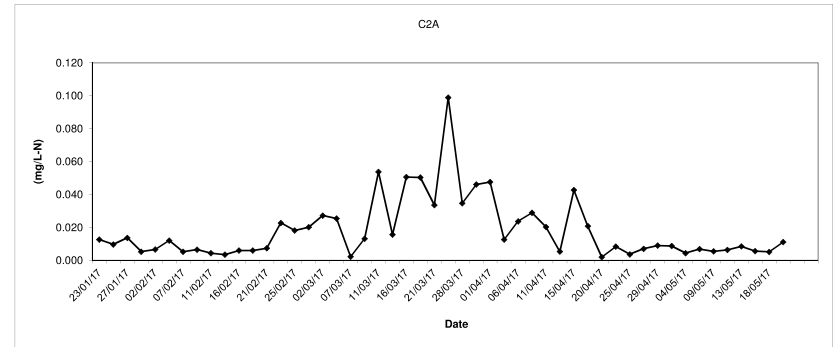
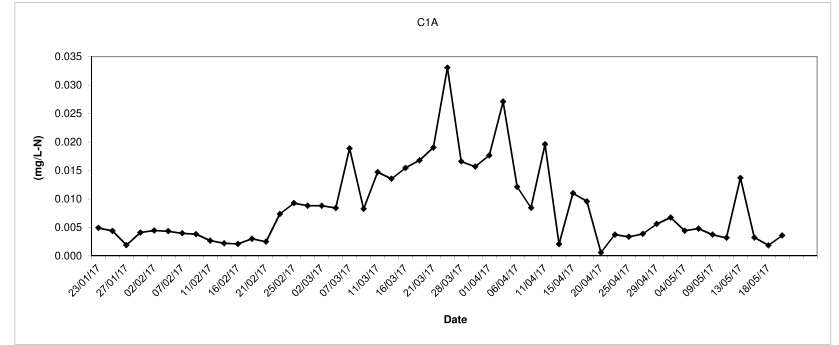
In-situ Ammonia (Depth average) at Mid-Flood Tide



In-situ Ammonia (Depth average) at Mid-Flood Tide

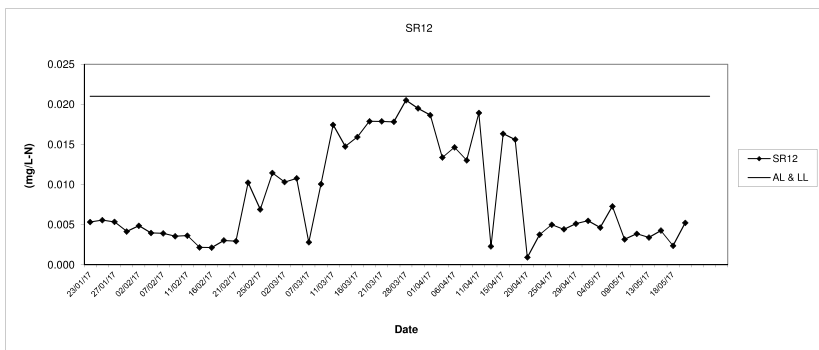
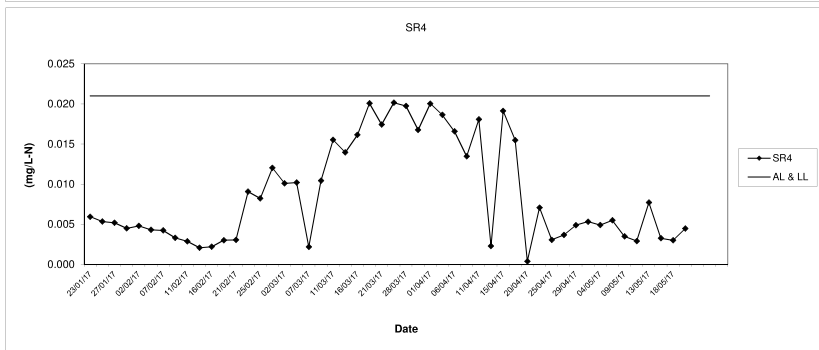
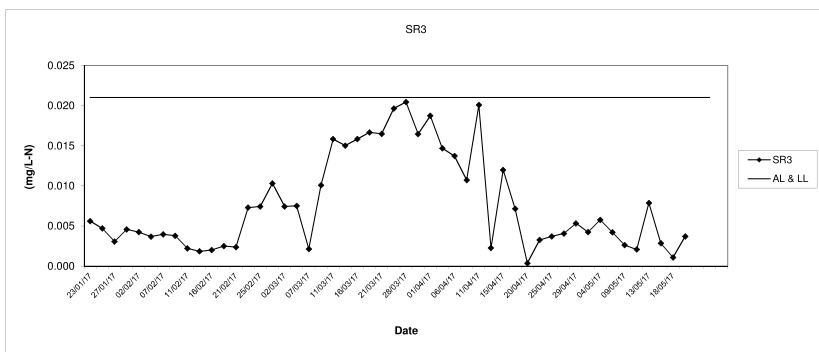


In-situ UIA (Depth average) at Mid-Flood Tide

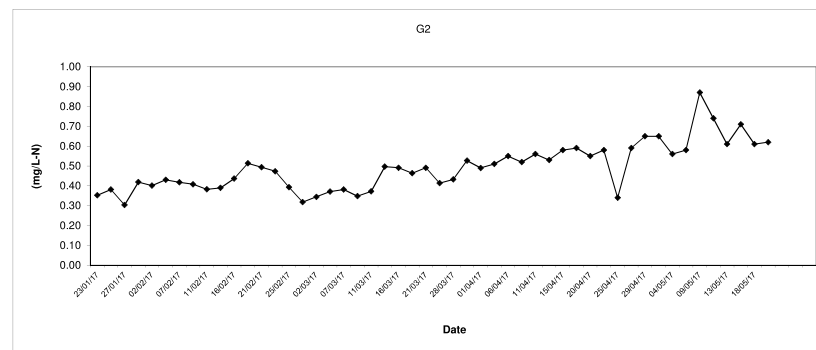
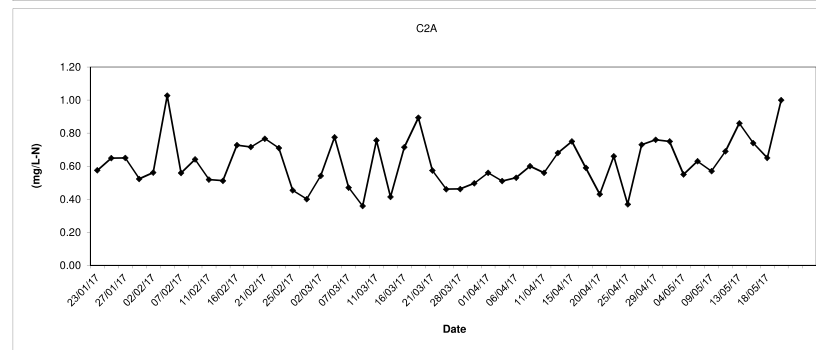
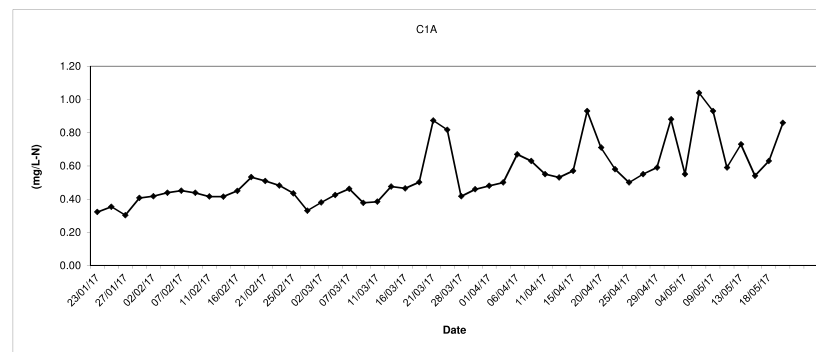




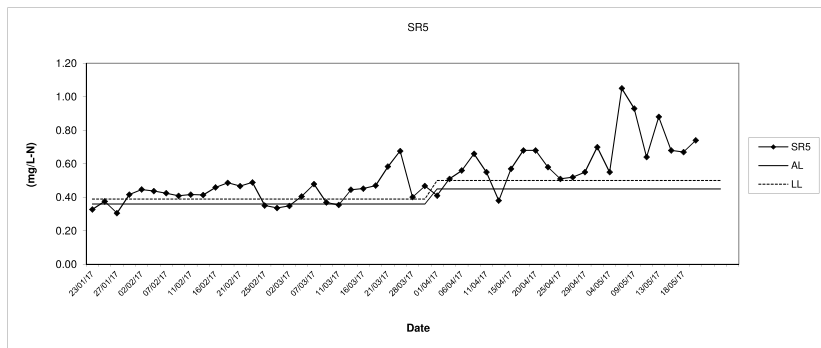
In-situ UIA (Depth average) at Mid-Flood Tide



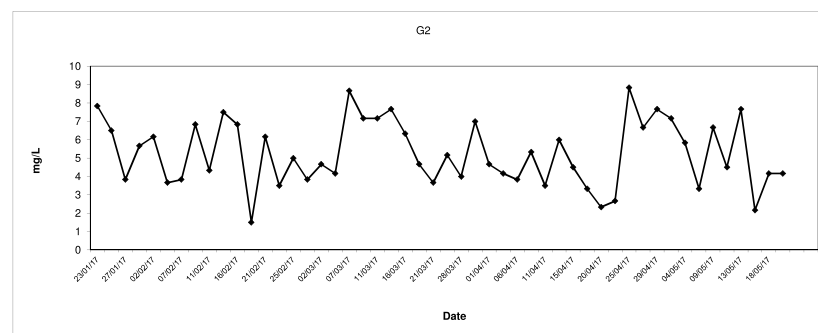
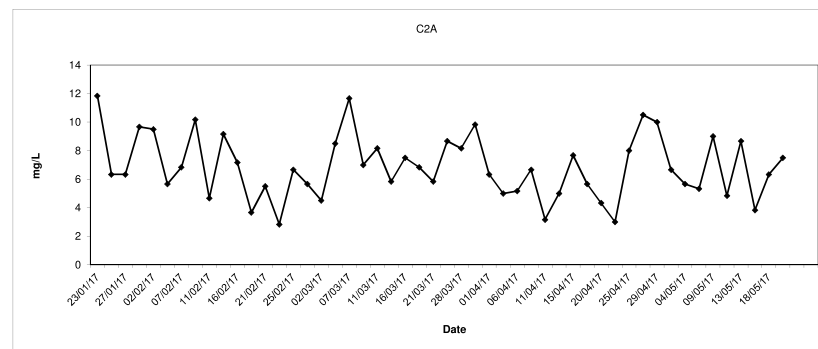
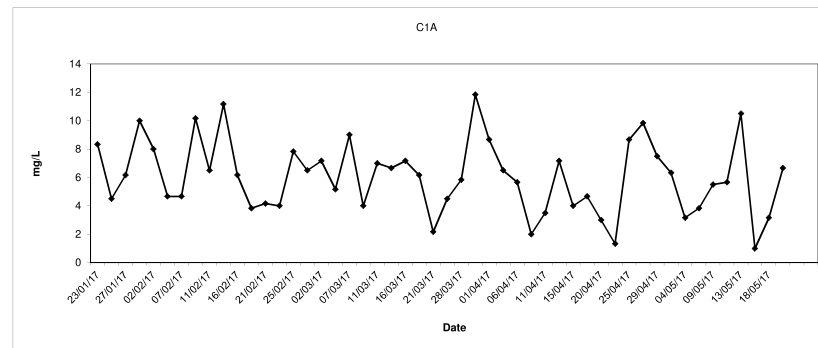
In-situ TIN (Depth average) at Mid-Flood Tide



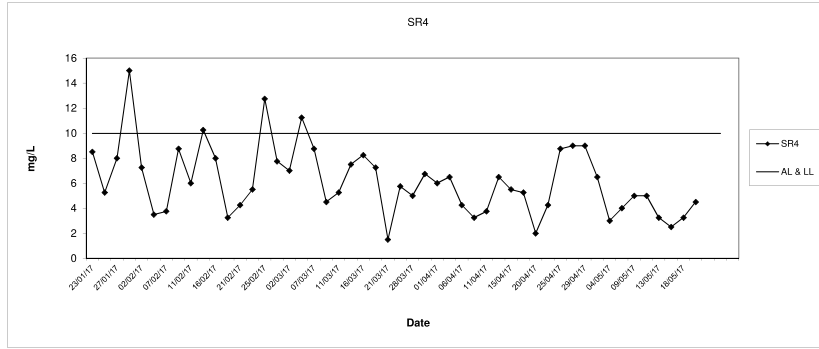
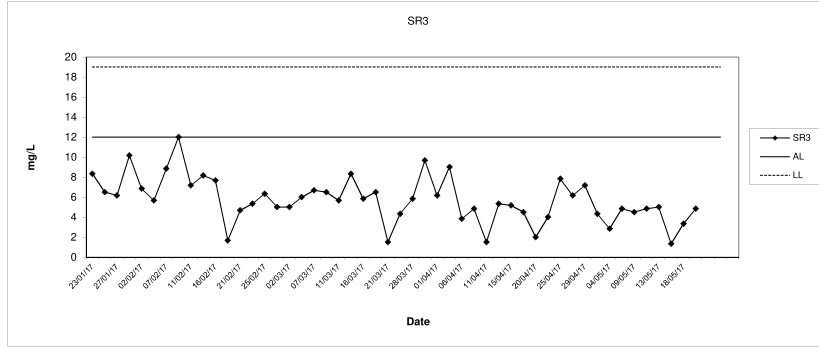
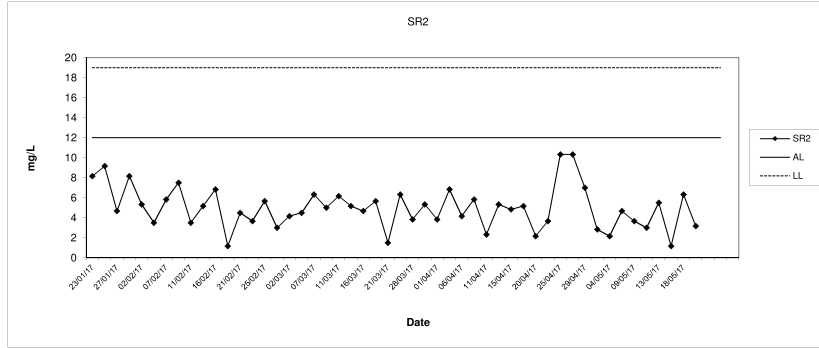
In-situ TIN (Depth average) at Mid-Flood Tide



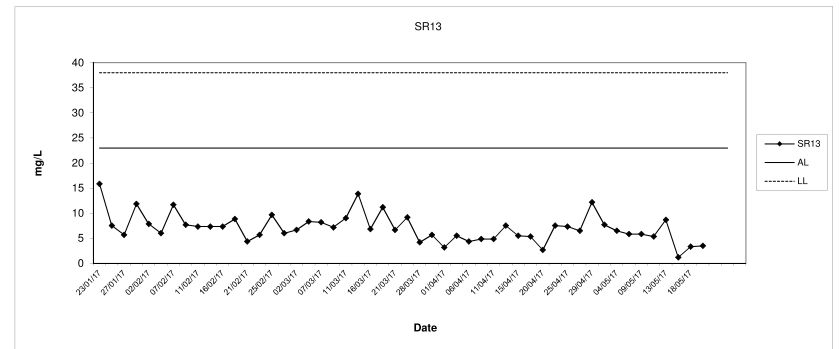
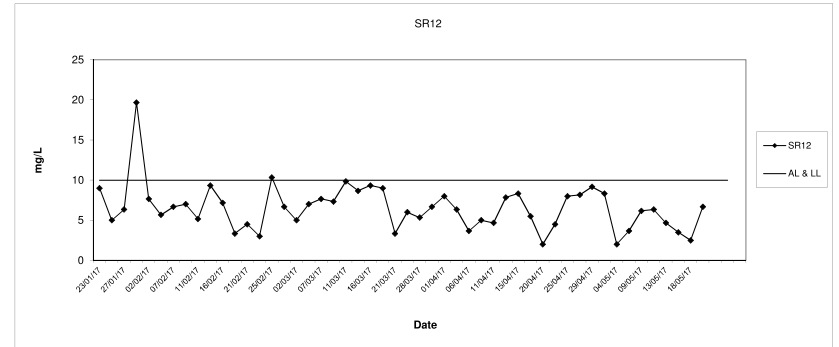
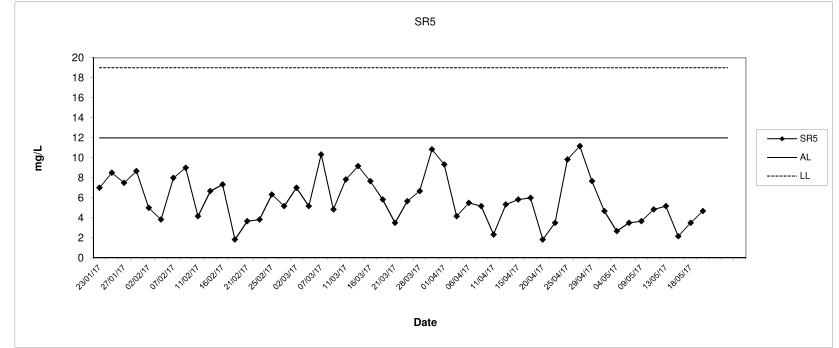
Total Suspended Solids (Depth average) at Mid-Flood Tide



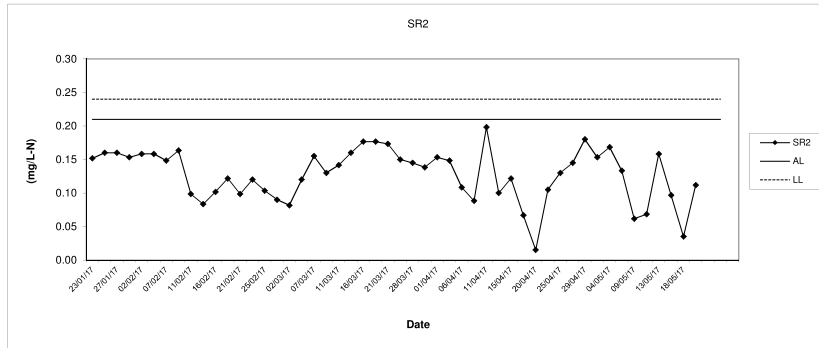
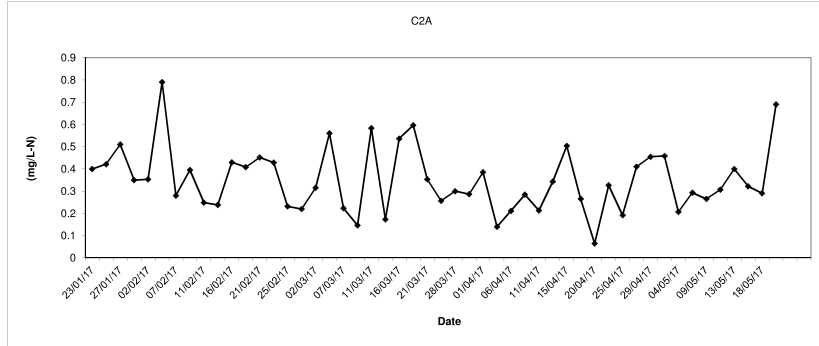
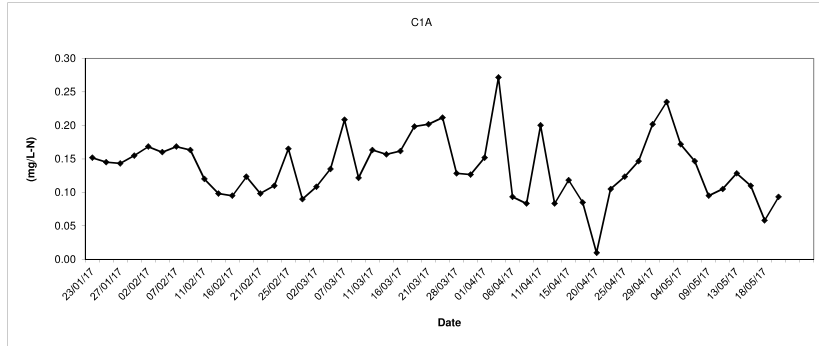
Total Suspended Solids (Depth average) at Mid-Flood Tide



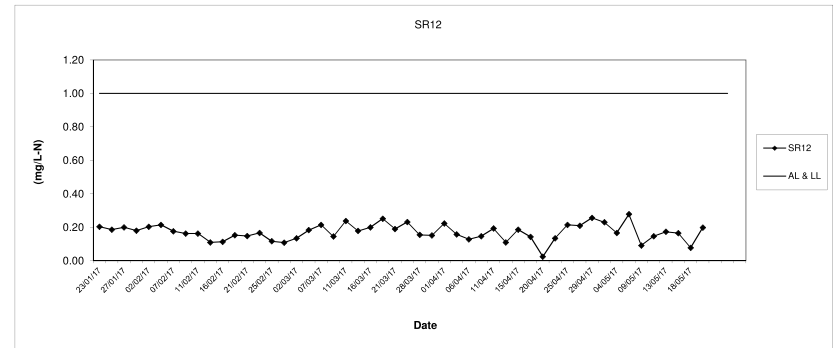
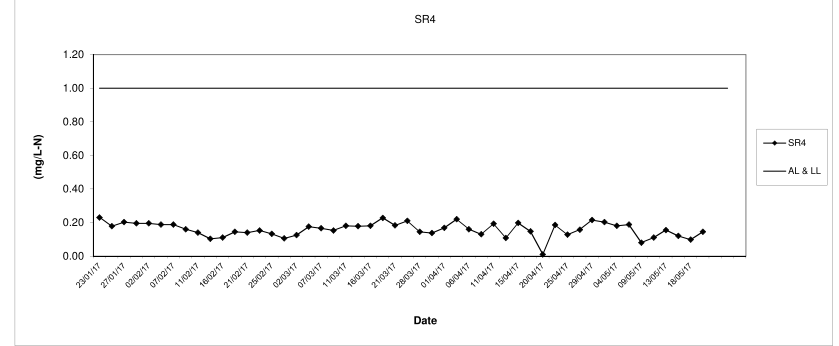
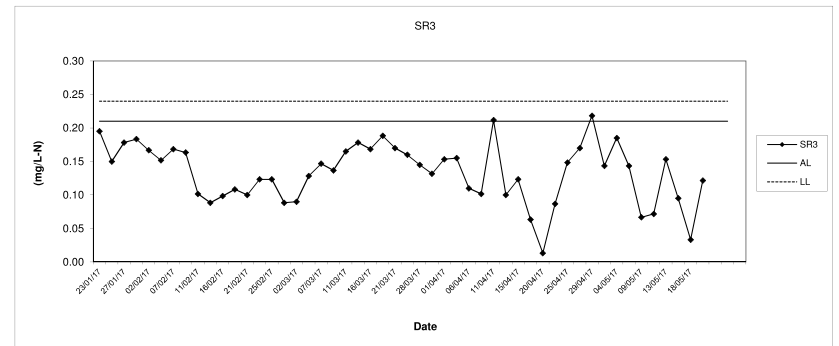
Total Suspended Solids (Depth average) at Mid-Flood Tide



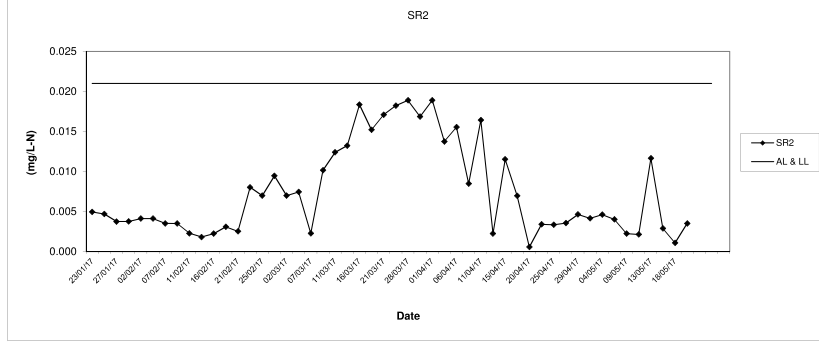
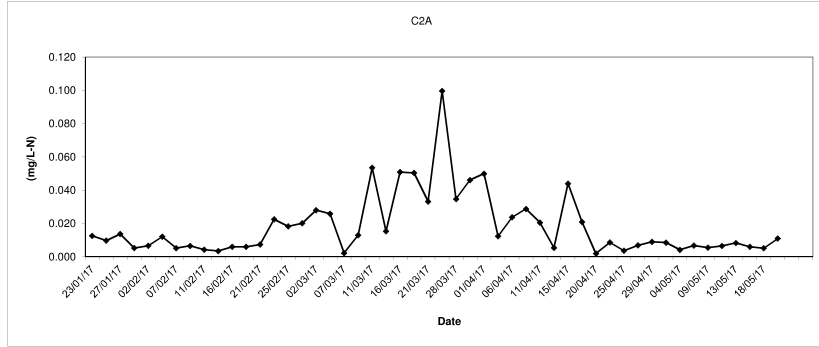
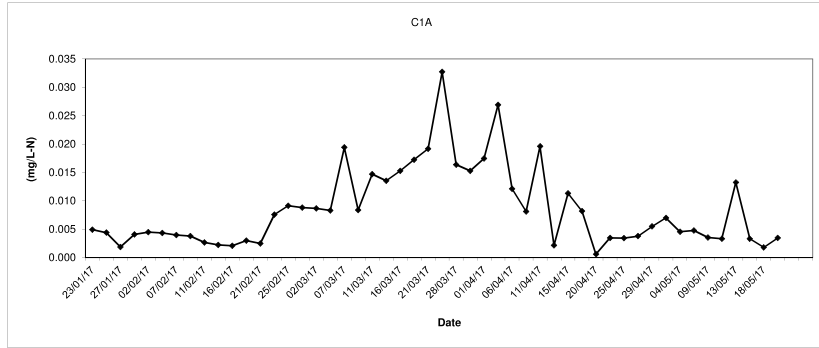
Ammonia Nitrogen (Depth average) at Mid-Flood Tide



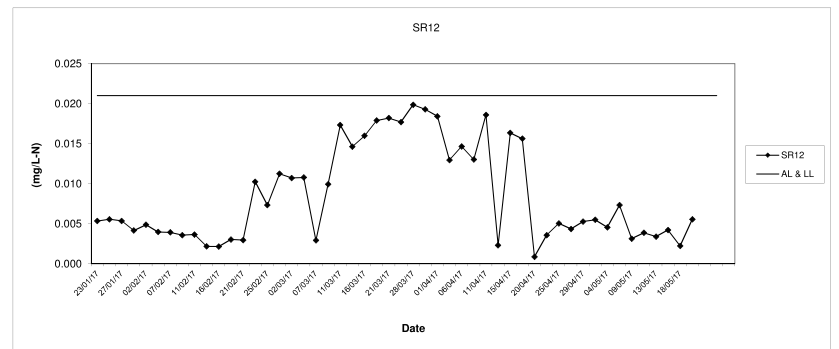
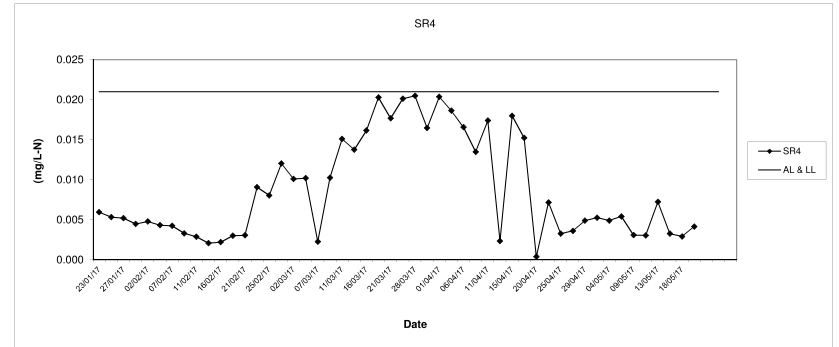
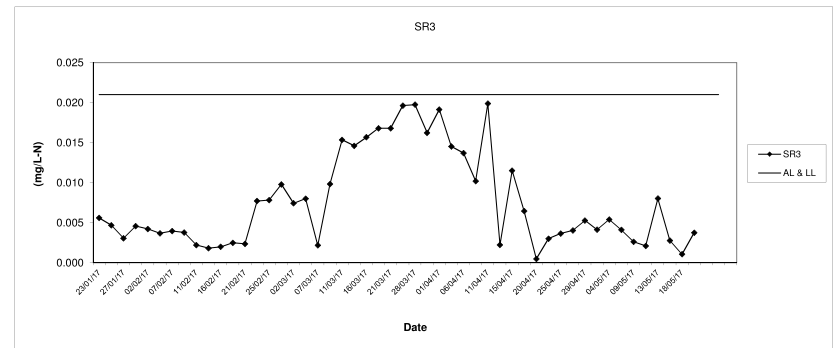
Ammonia Nitrogen (Depth average) at Mid-Flood Tide



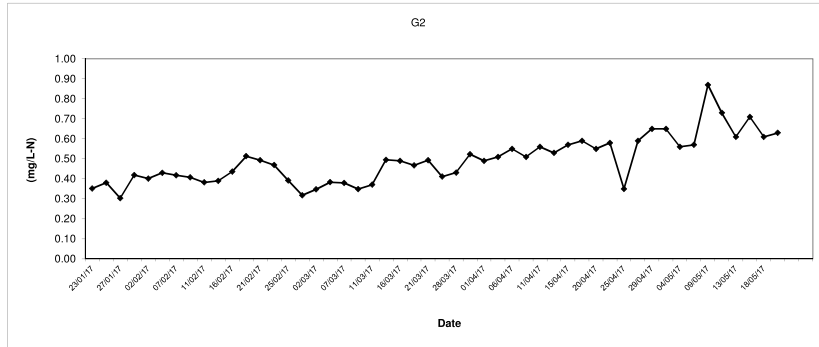
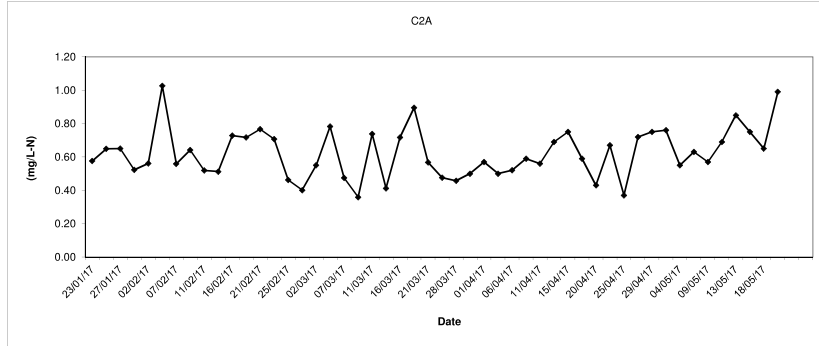
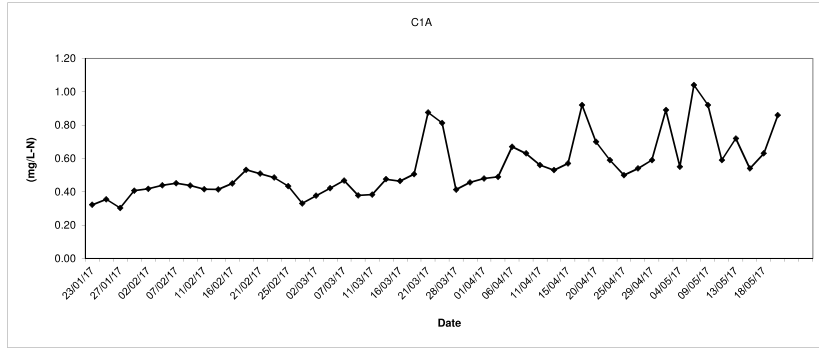
Laboratory Analysis UIA (Depth average) at Mid-Flood Tide



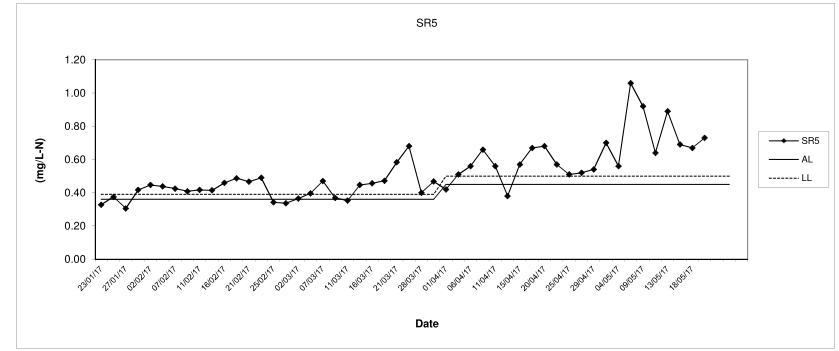
Laboratory Analysis UIA (Depth average) at Mid-Flood Tide



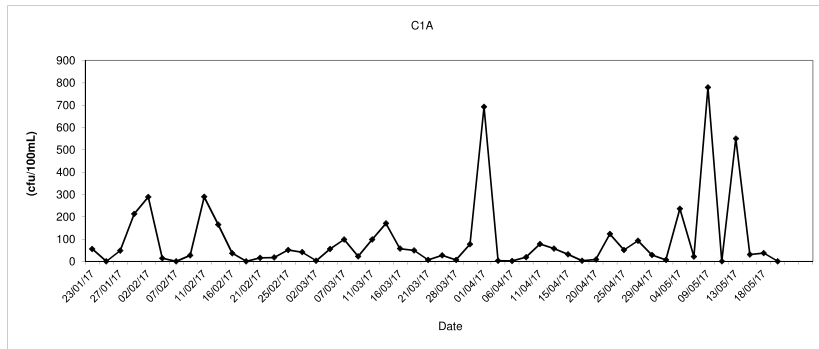
Laboratory Analysis TIN (Depth average) at Mid-Flood Tide



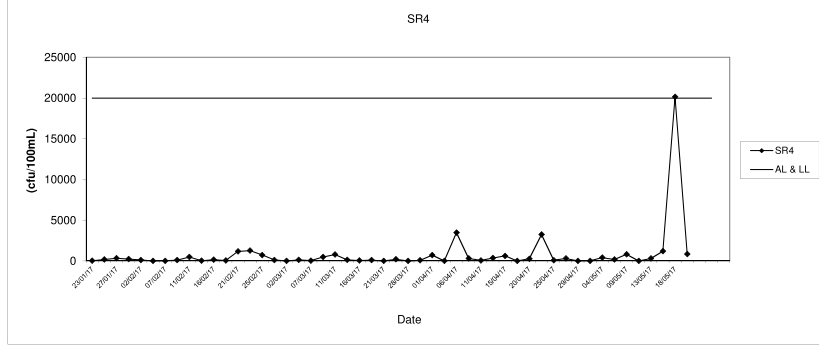
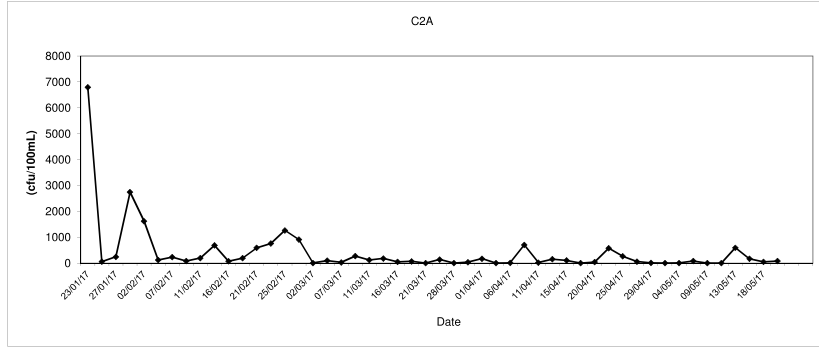
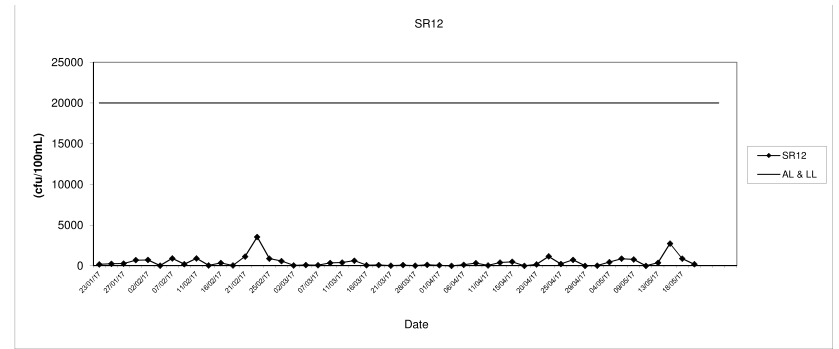
Laboratory Analysis TIN (Depth average) at Mid-Flood Tide



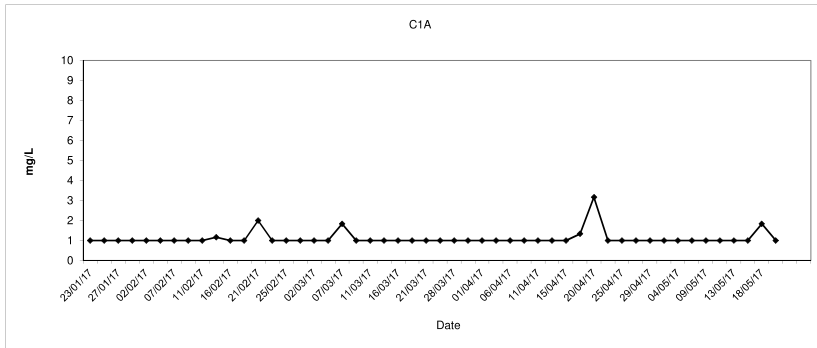
*E. coli* (Depth average) at Mid-Flood Tide



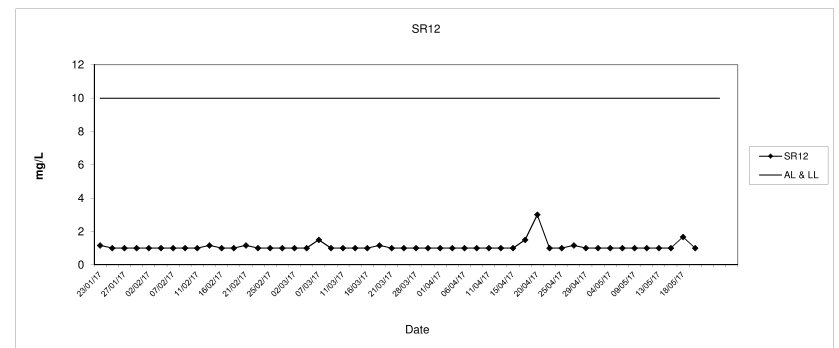
*E. coli* (Depth average) at Mid-Flood Tide



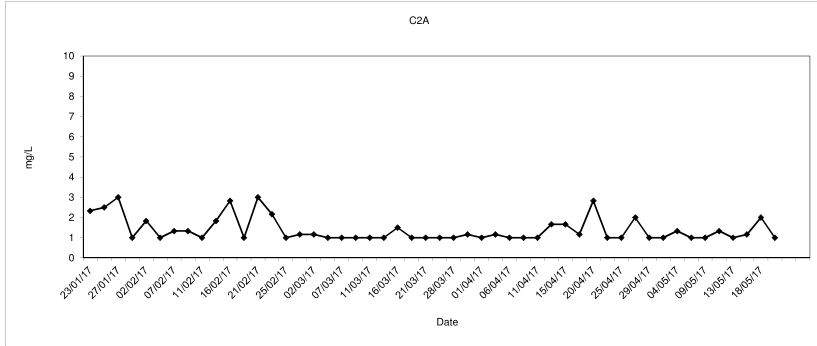
BOD<sub>5</sub> (Depth average) at Mid-Flood Tide



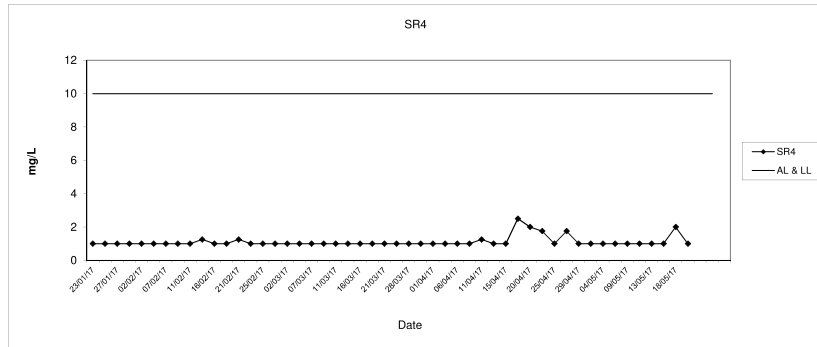
BOD<sub>5</sub> (Depth average) at Mid-Flood Tide



C2A

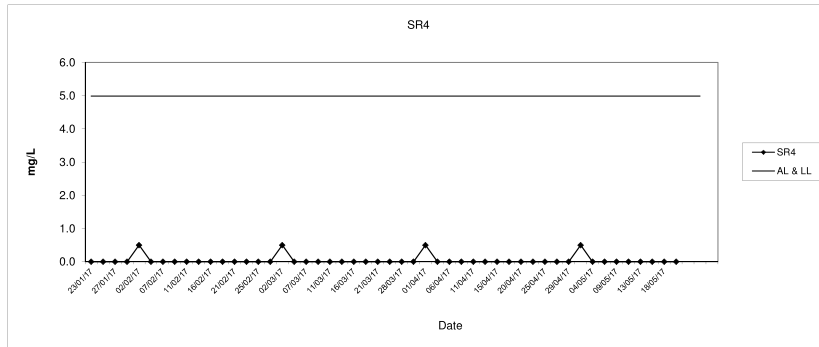
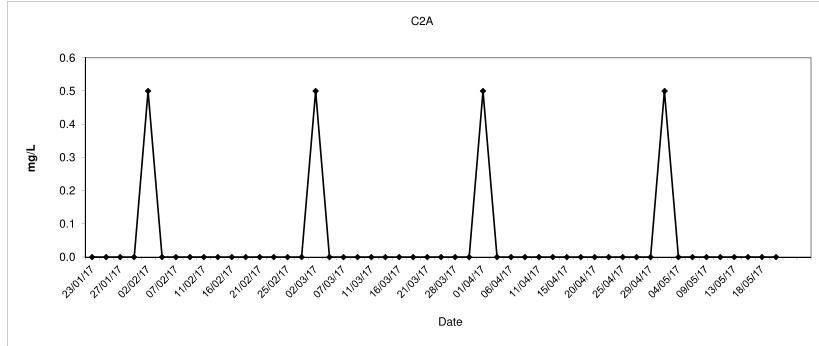
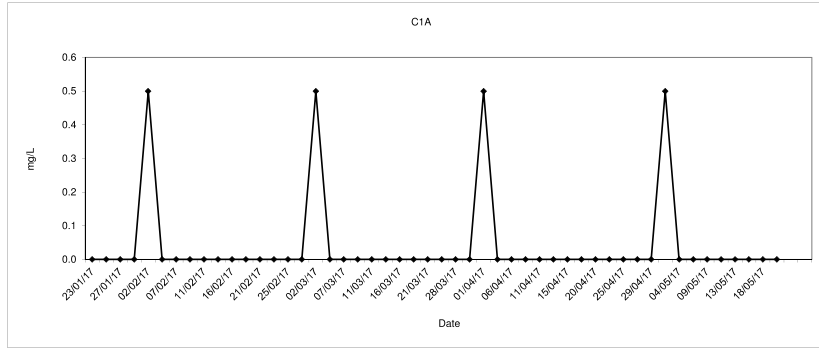


SR4

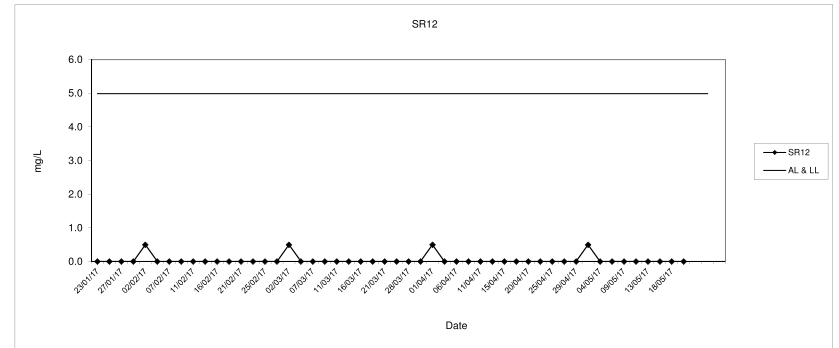




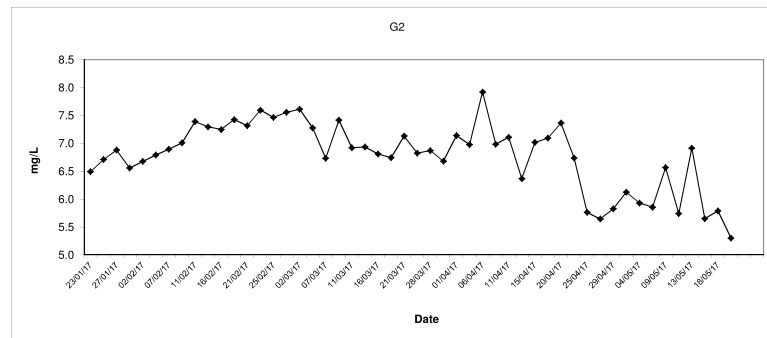
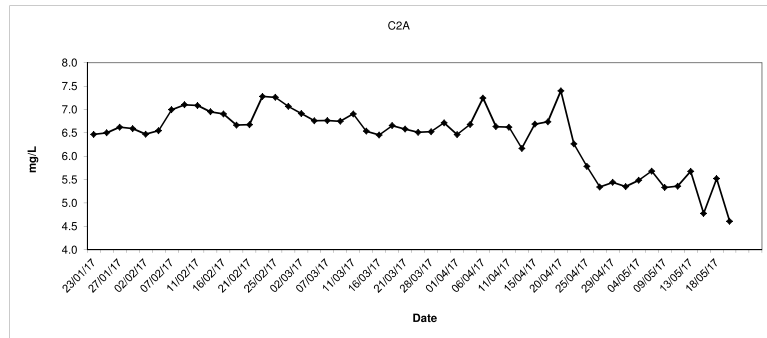
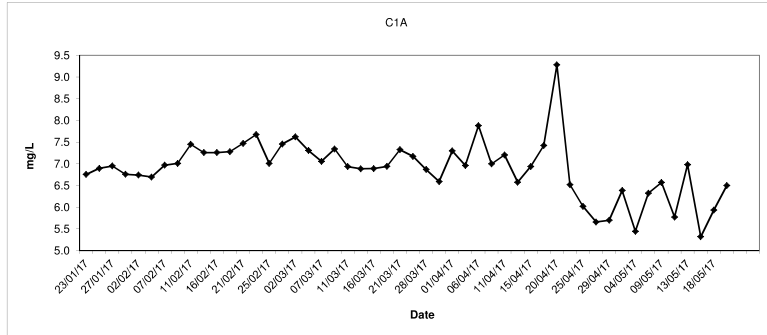
Synthetic Detergent (Depth average) at Mid-Flood Tide



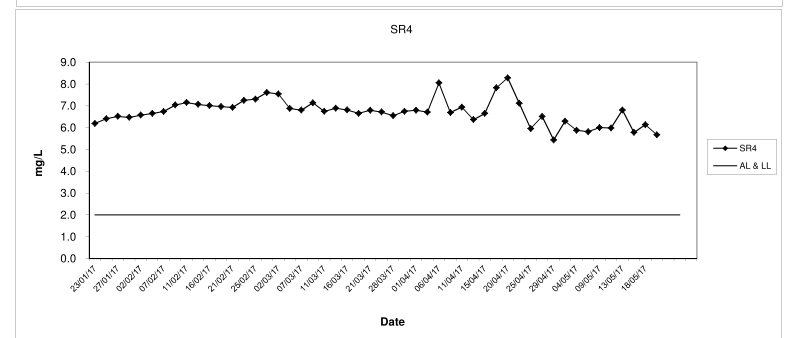
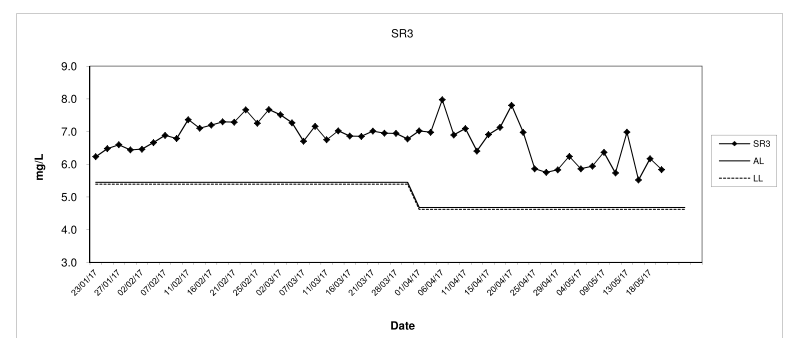
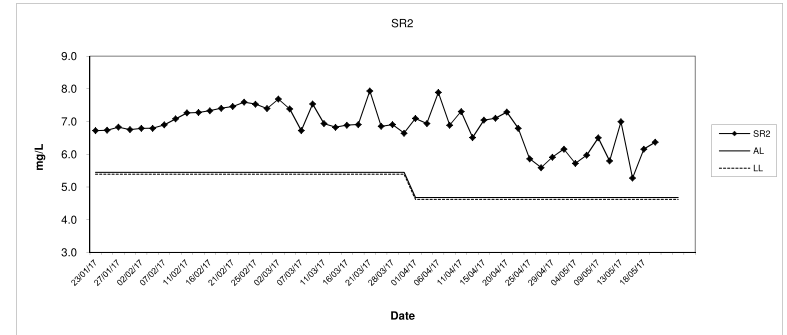
Synthetic Detergent (Depth average) at Mid-Flood Tide



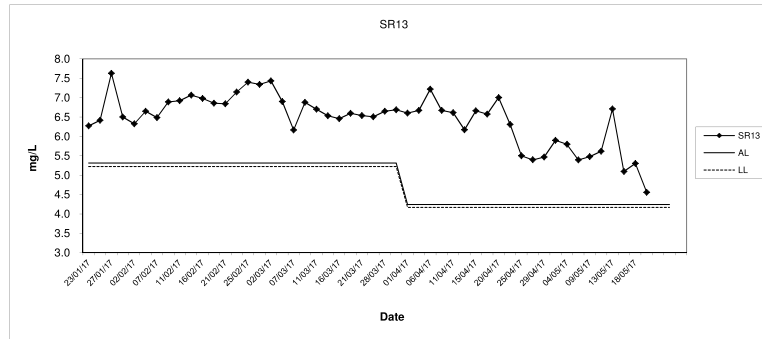
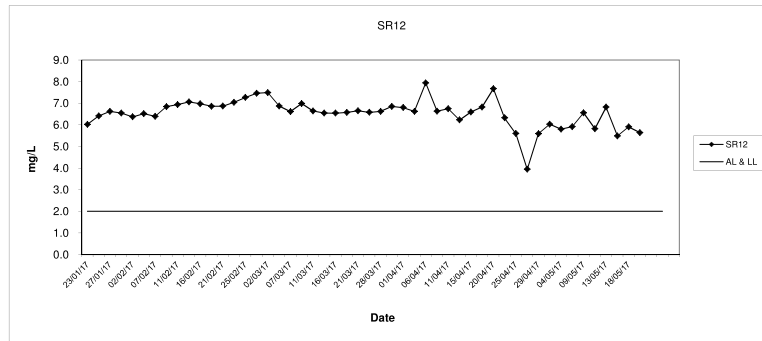
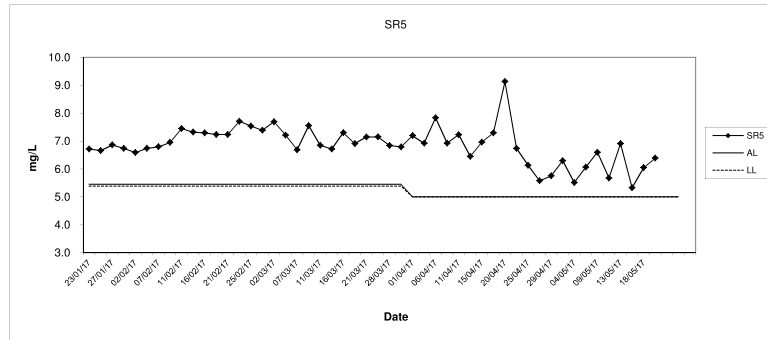
Dissolved Oxygen (Surface and Middle) at Mid-Ebb Tide



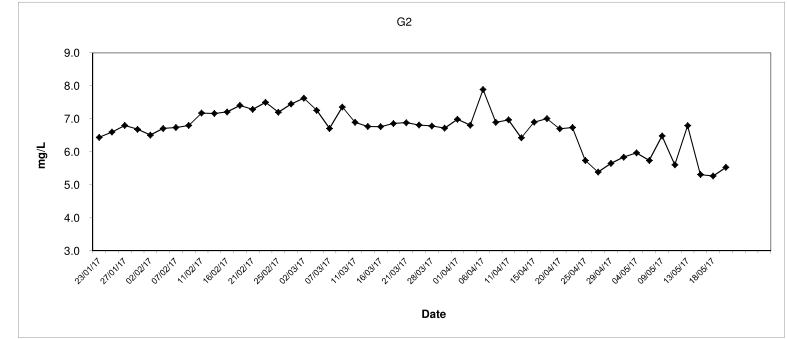
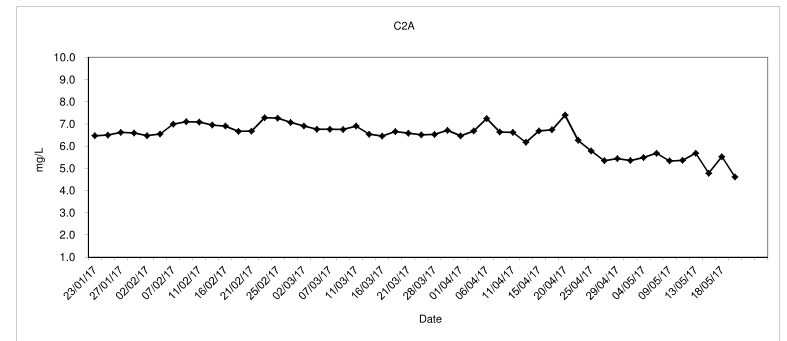
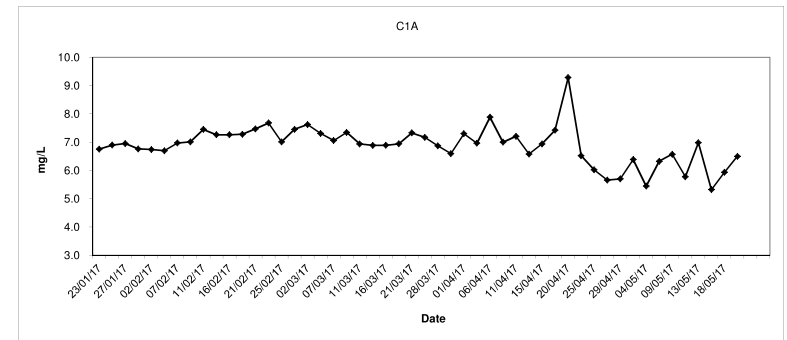
Dissolved Oxygen (Surface and Middle) at Mid-Ebb Tide



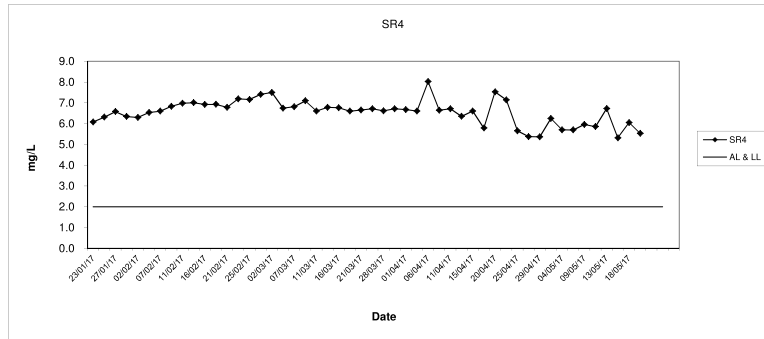
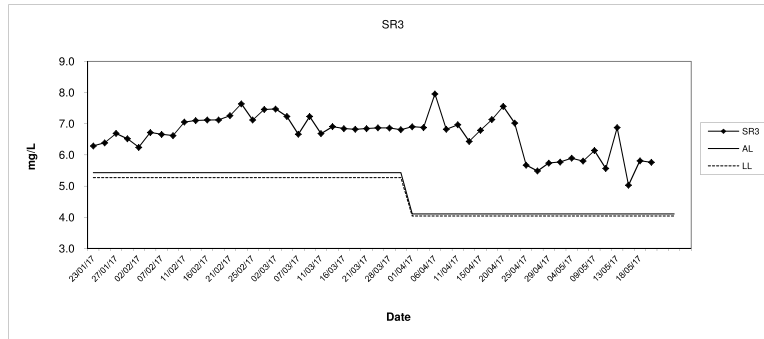
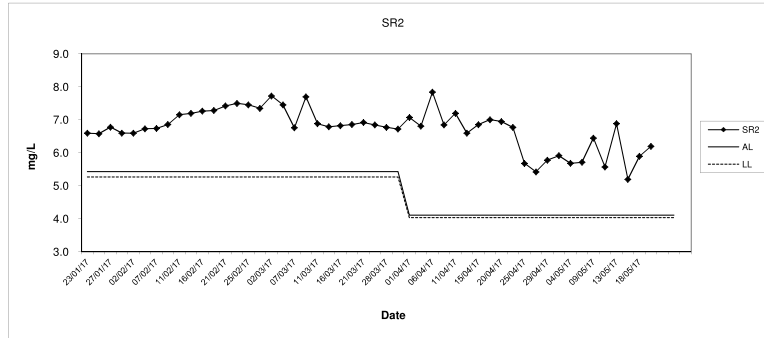
Dissolved Oxygen (Surface and Middle) at Mid-Ebb Tide



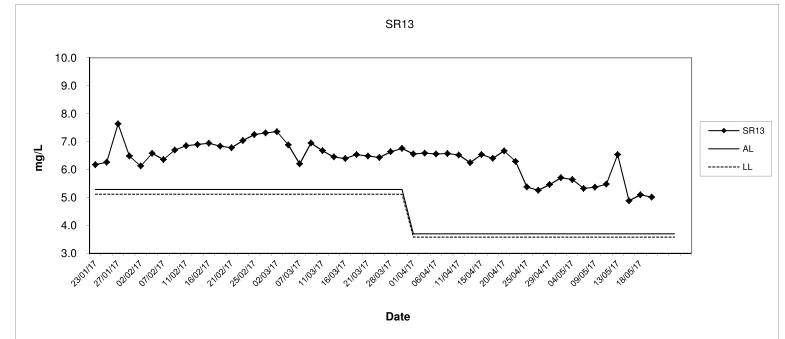
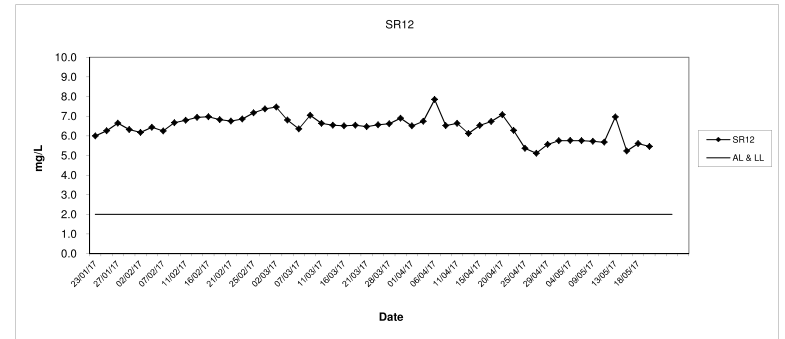
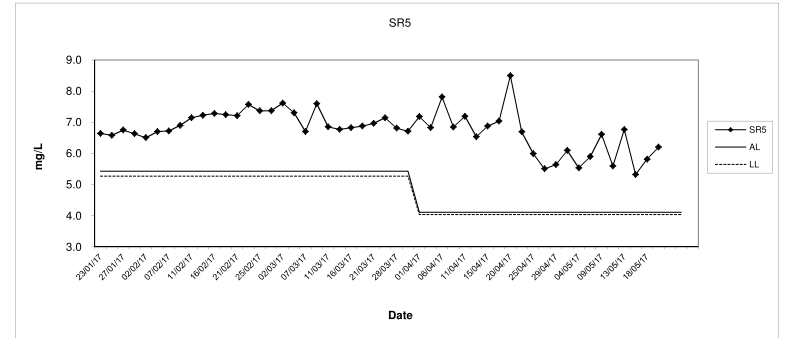
Dissolved Oxygen (Bottom) at Mid-Ebb Tide



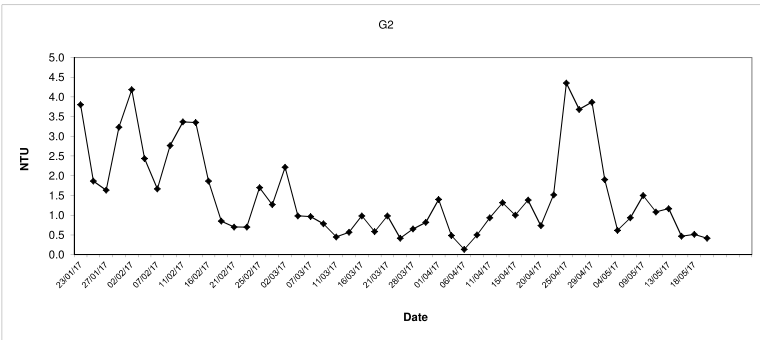
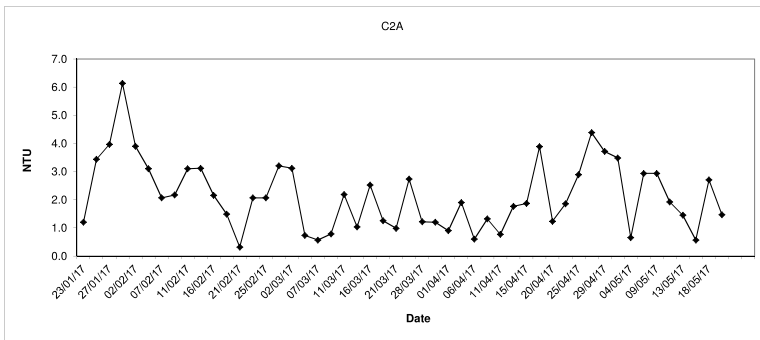
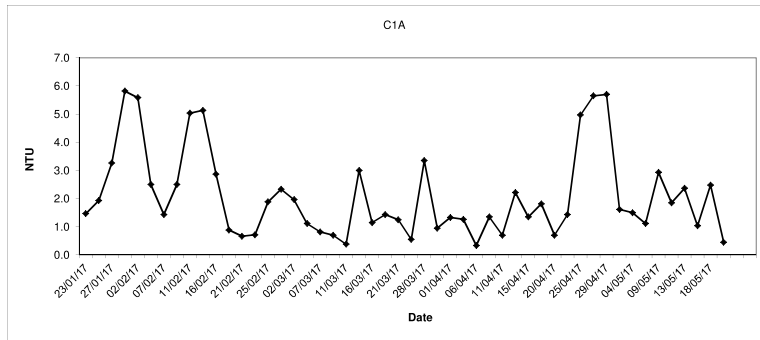
Dissolved Oxygen (Bottom) at Mid-Ebb Tide



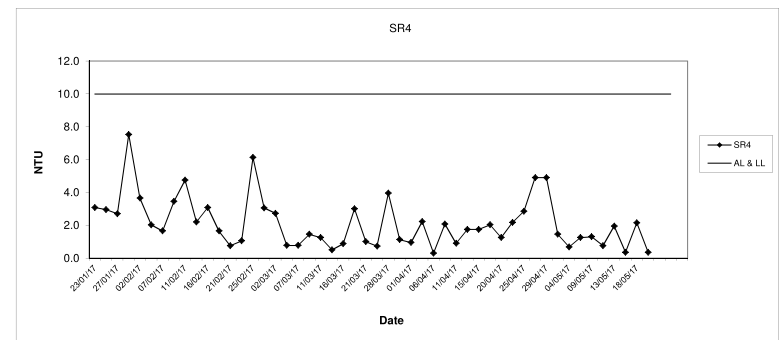
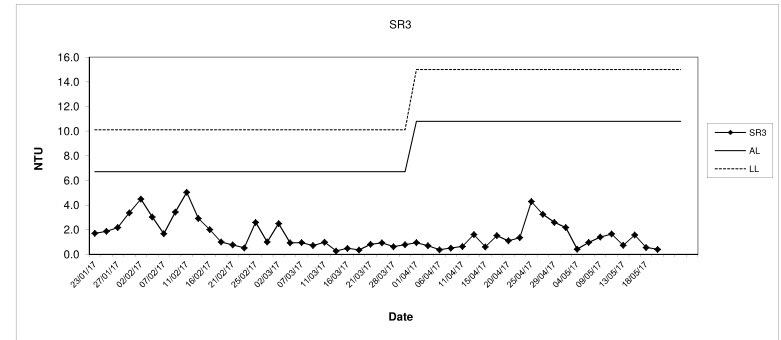
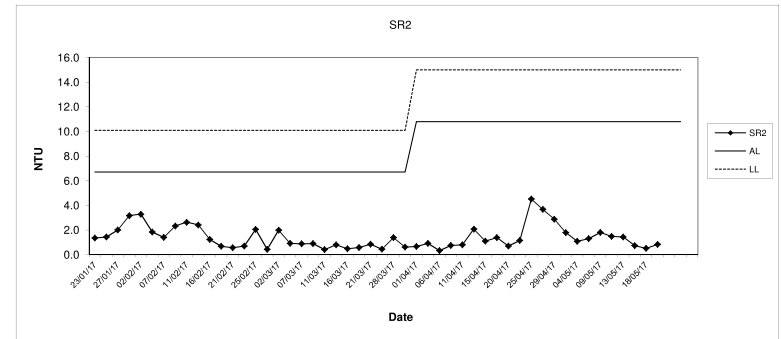
Dissolved Oxygen (Bottom) at Mid-Ebb Tide



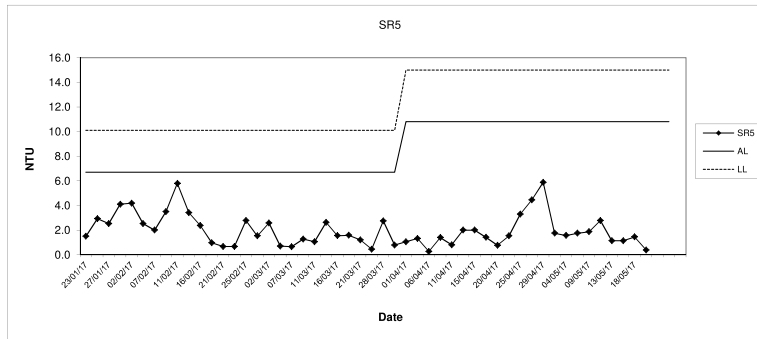
Turbidity (Depth average) at Mid-Ebb Tide



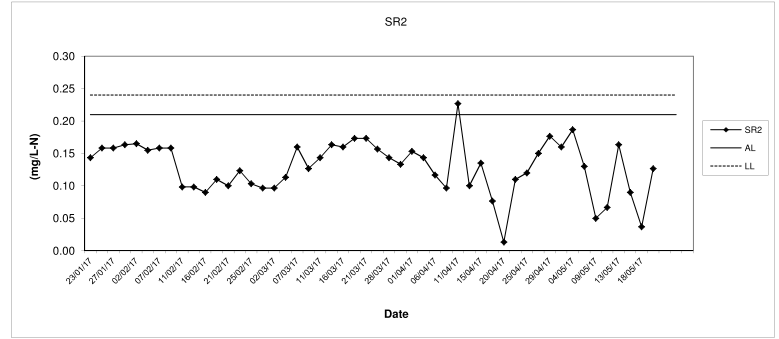
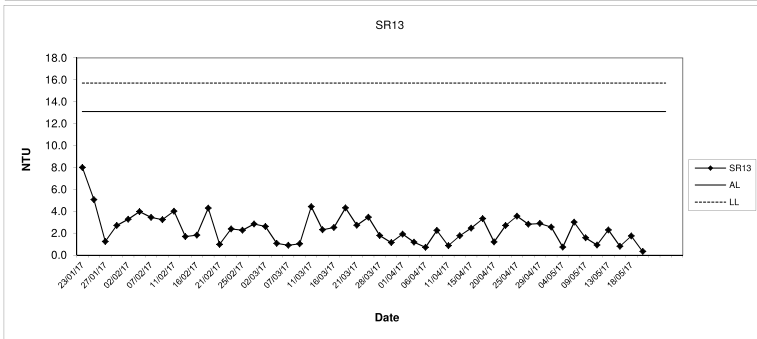
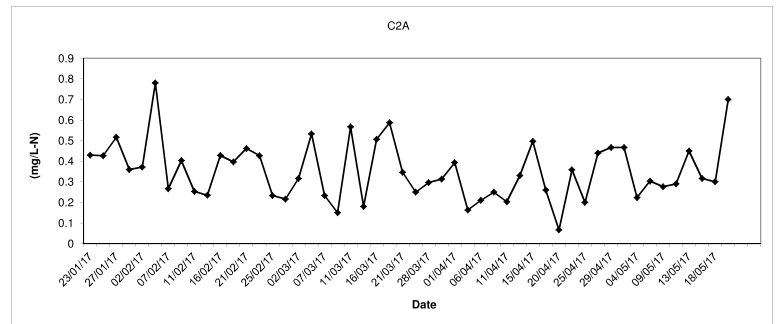
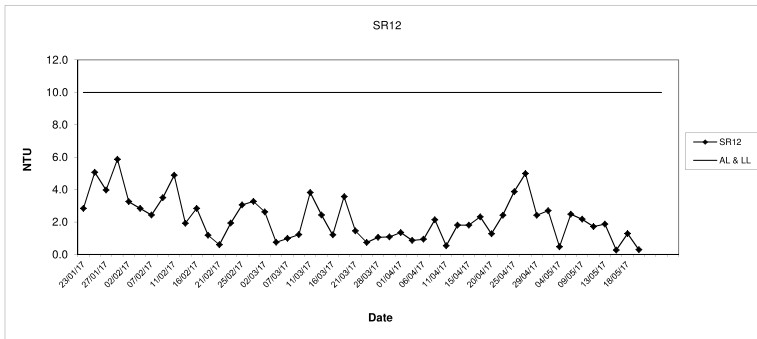
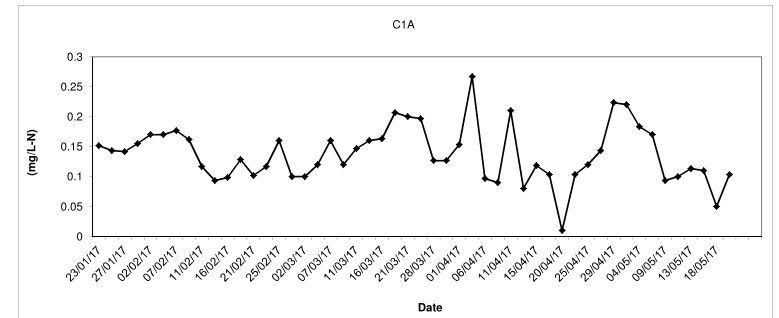
Turbidity (Depth average) at Mid-Ebb Tide



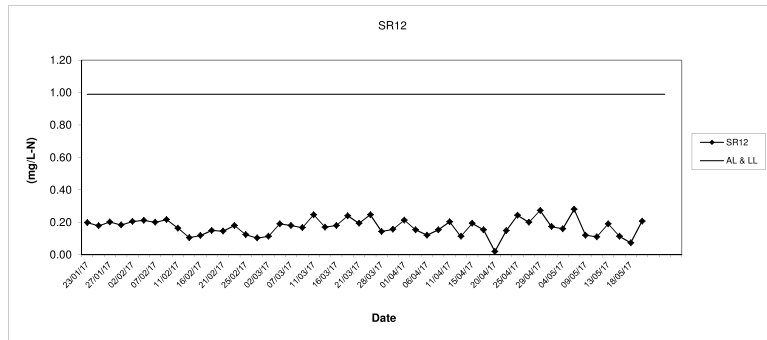
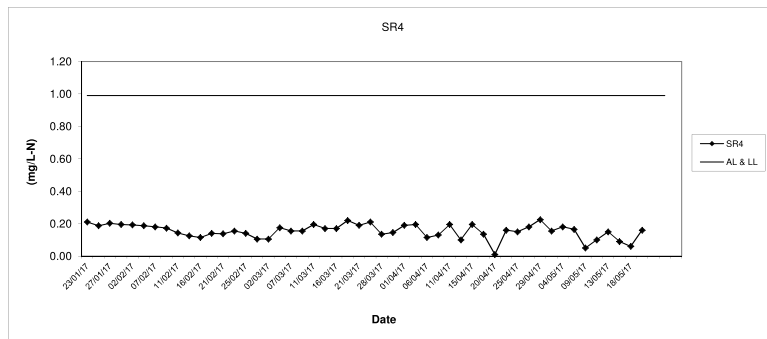
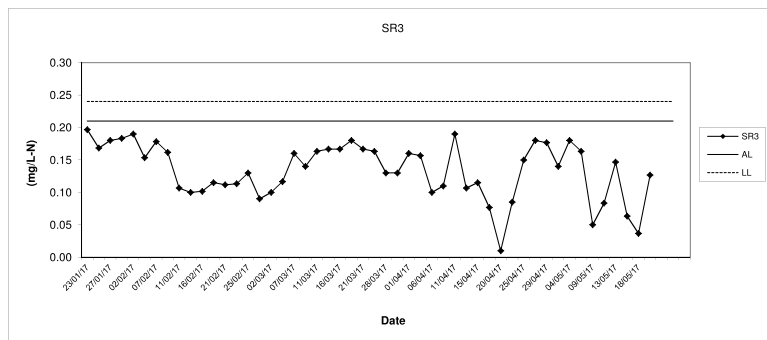
Turbidity (Depth average) at Mid-Ebb Tide



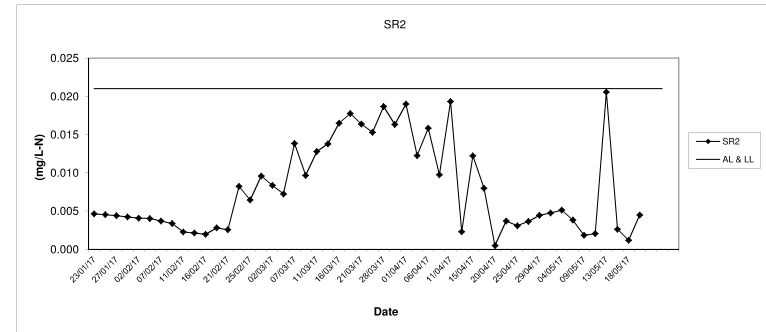
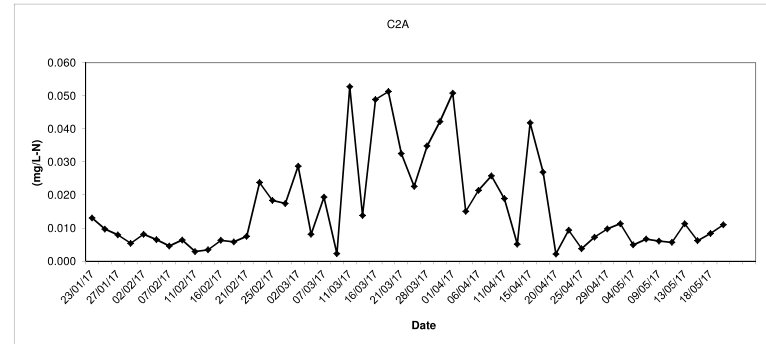
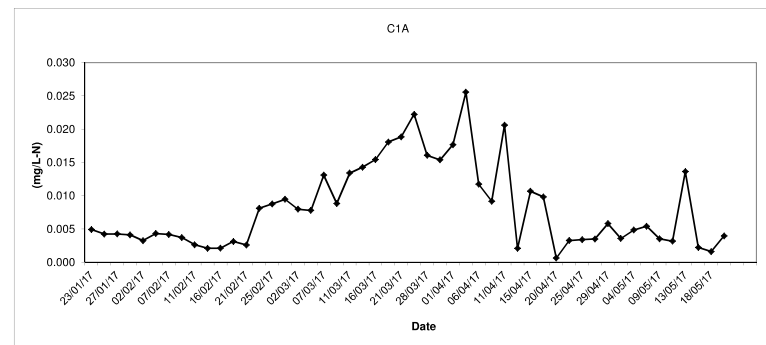
In-situ Ammonia (Depth average) at Mid-Ebb Tide



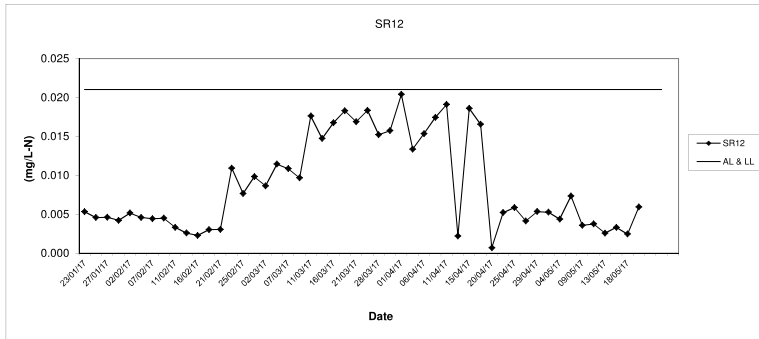
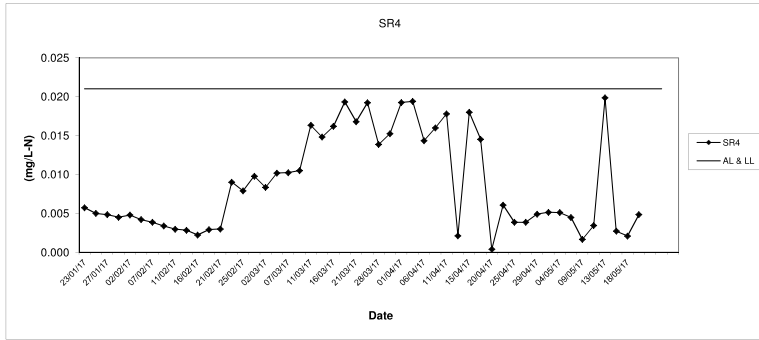
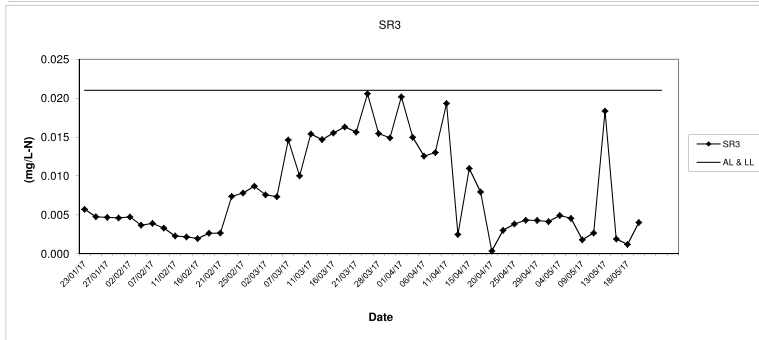
In-situ Ammonia (Depth average) at Mid-Ebb Tide



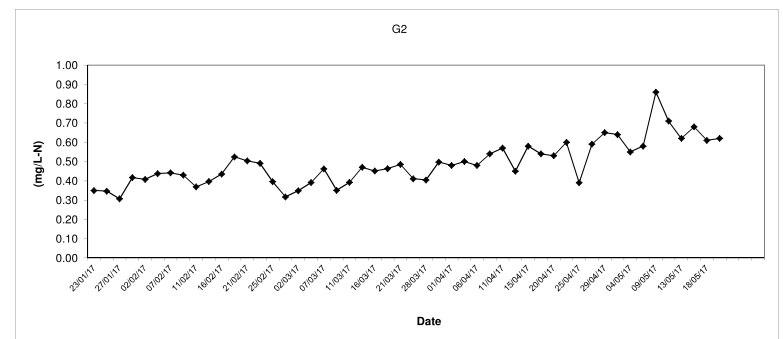
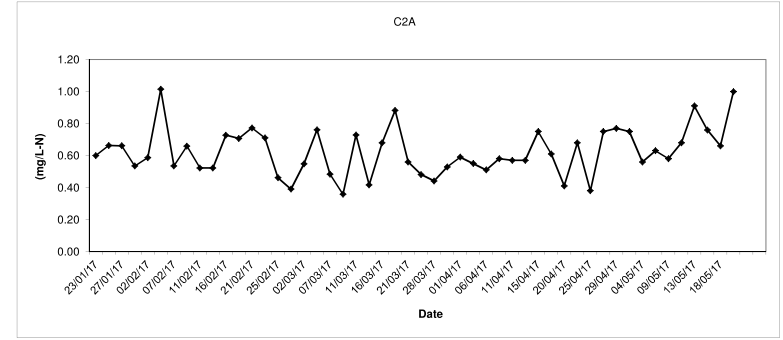
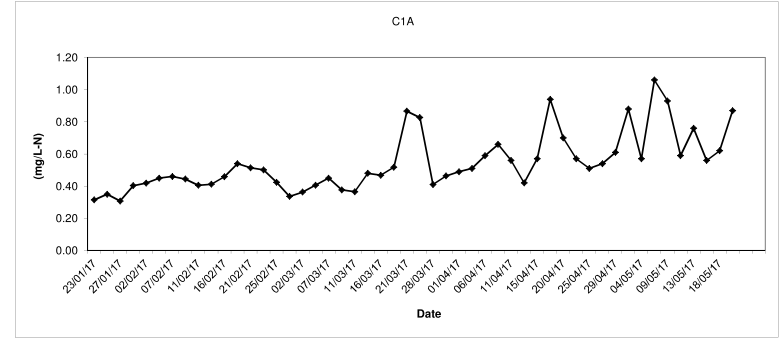
In-situ UIA (Depth average) at Mid-Ebb Tide



In-situ UIA (Depth average) at Mid-Ebb Tide

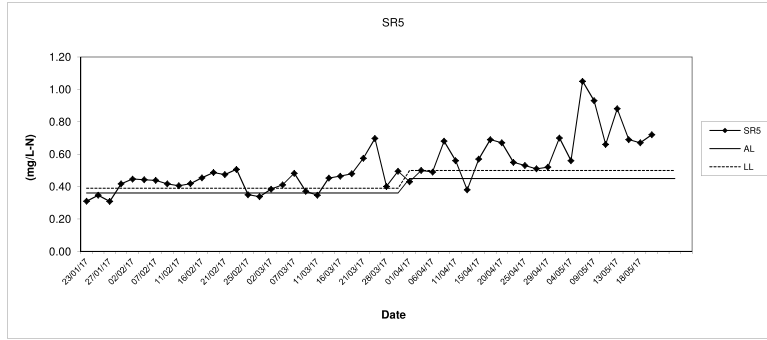


In-situ TIN (Depth average) at Mid-Ebb Tide

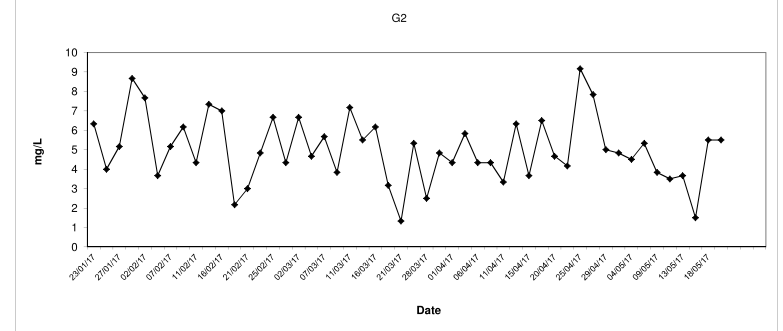
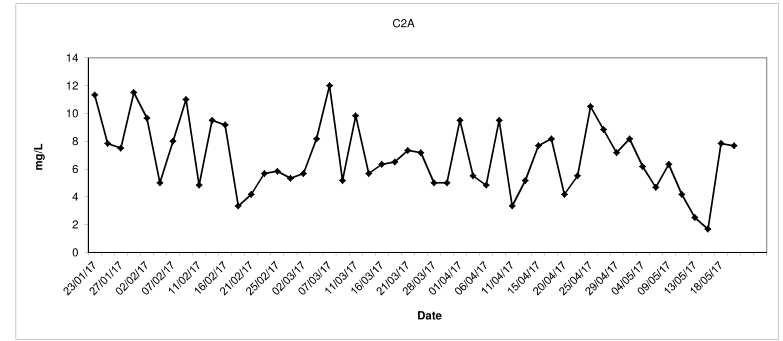
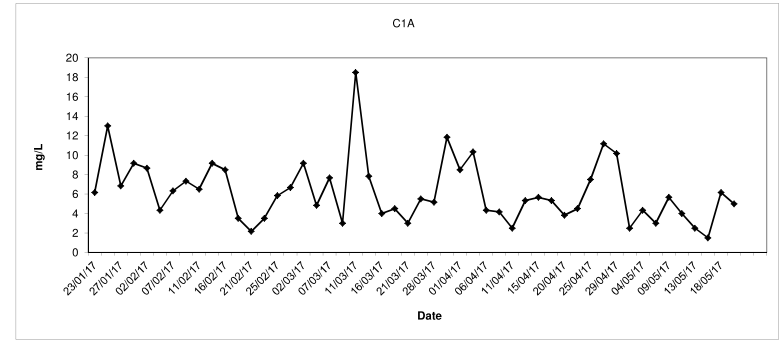




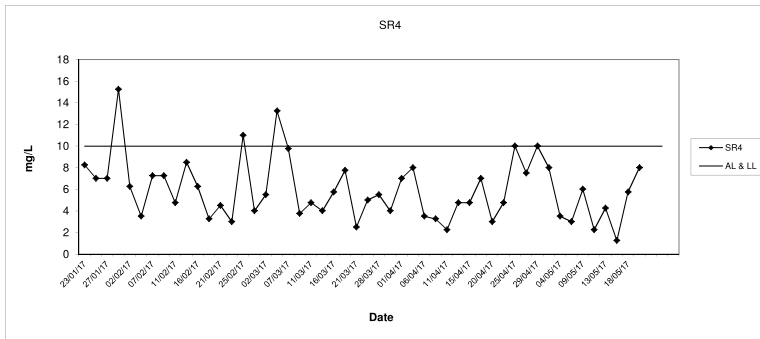
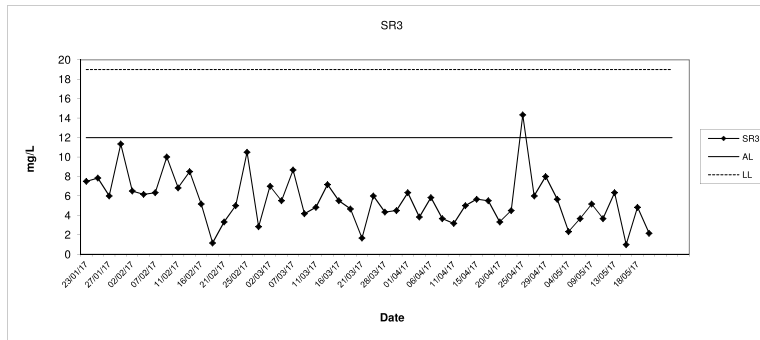
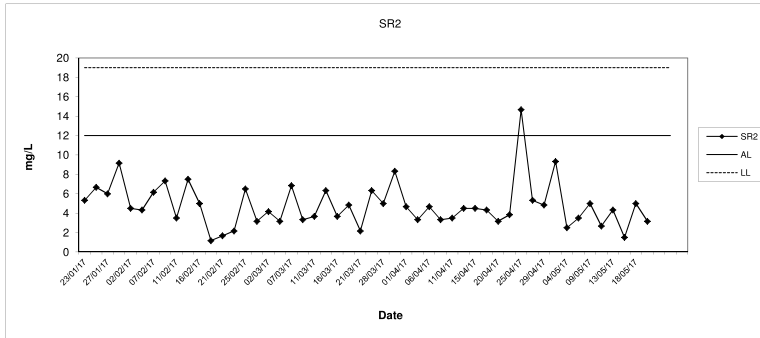
In-situ TIN (Depth average) at Mid-Ebb Tide



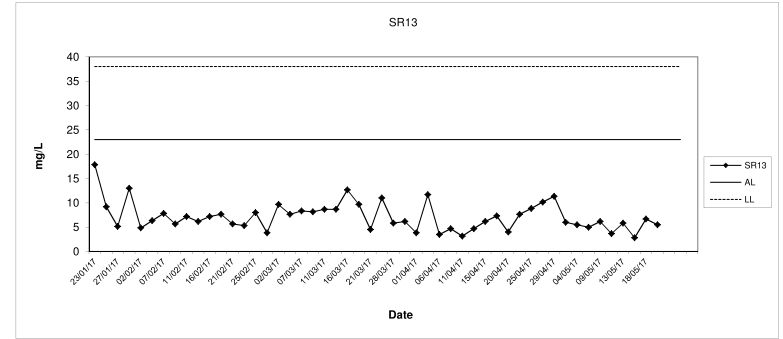
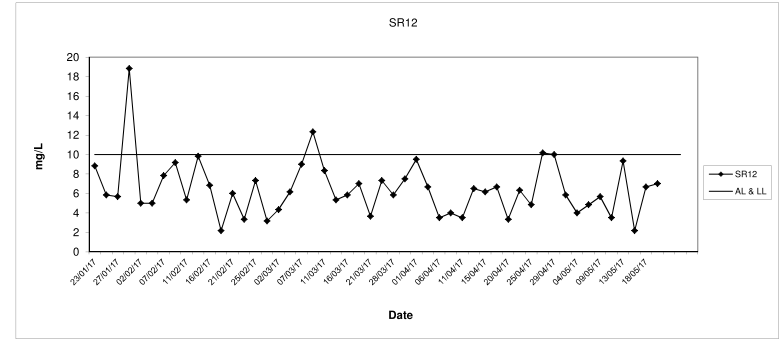
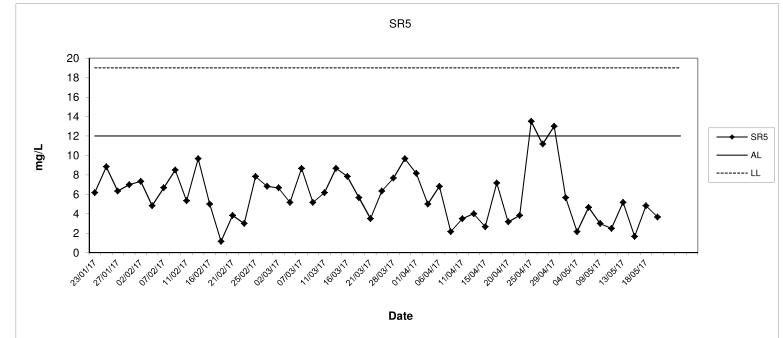
Total Suspended Solids (Depth average) at Mid-Ebb Tide



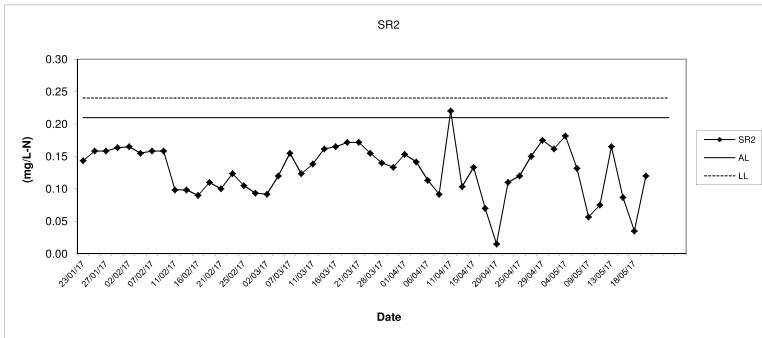
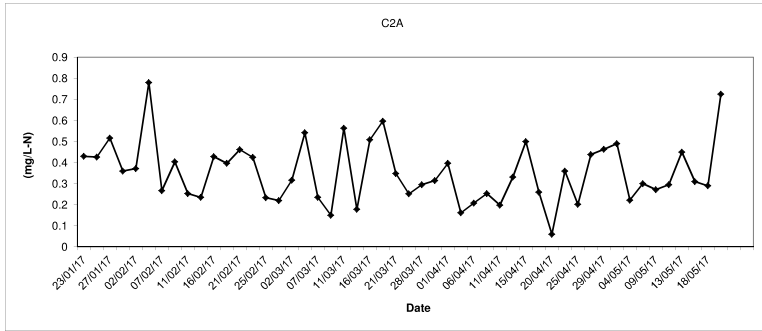
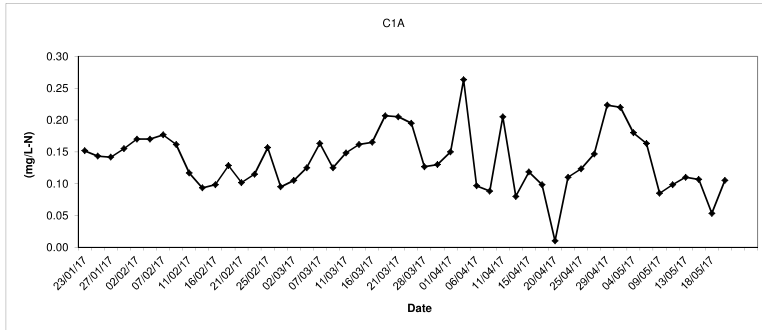
Total Suspended Solids (Depth average) at Mid-Ebb Tide



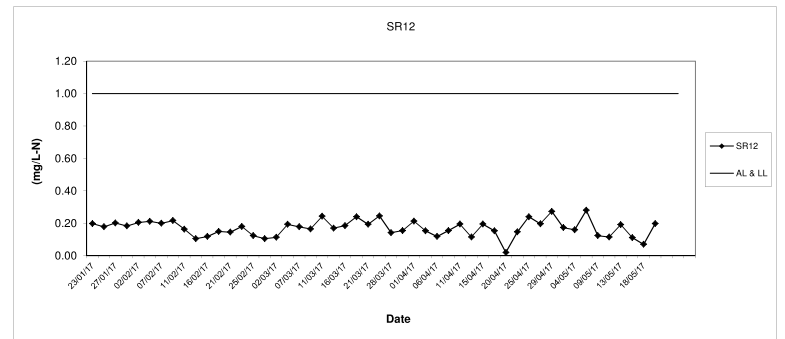
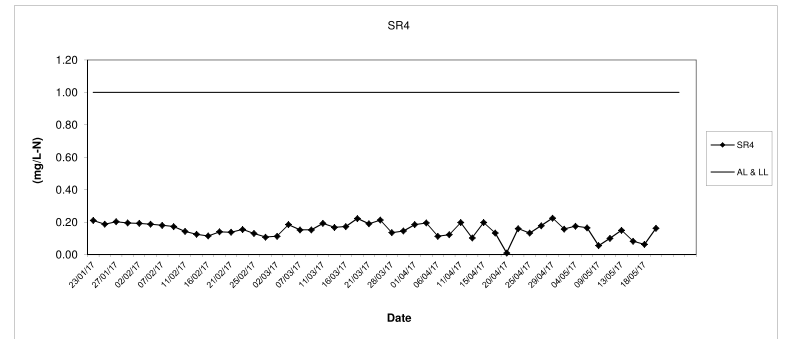
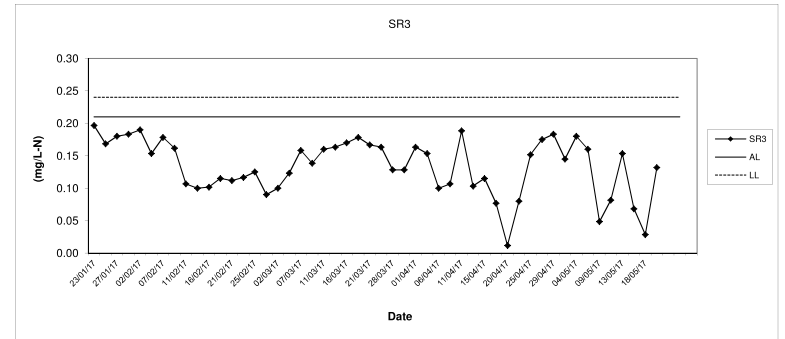
Total Suspended Solids (Depth average) at Mid-Ebb Tide



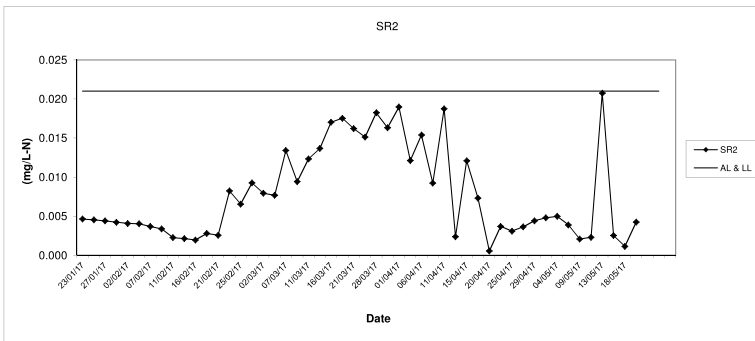
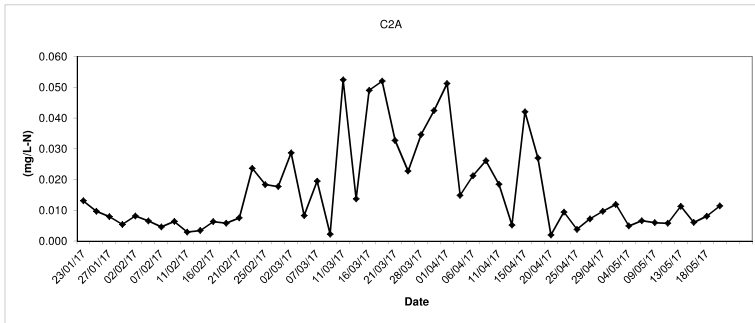
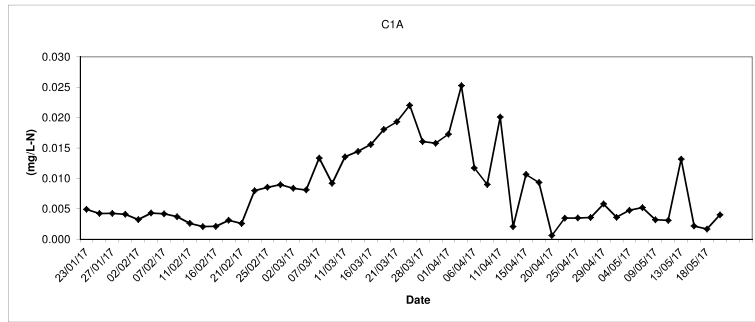
Ammonia Nitrogen (Depth average) at Mid-Ebb Tide



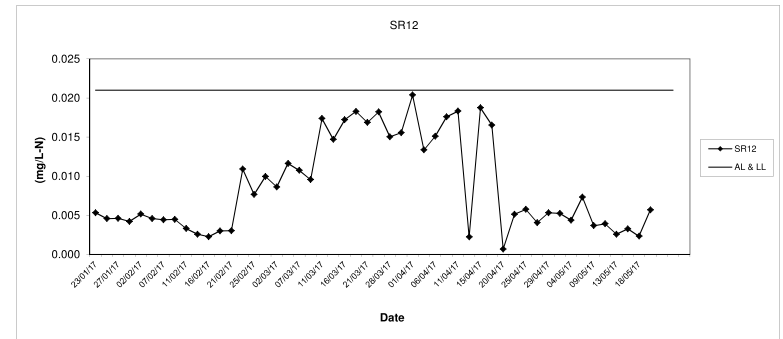
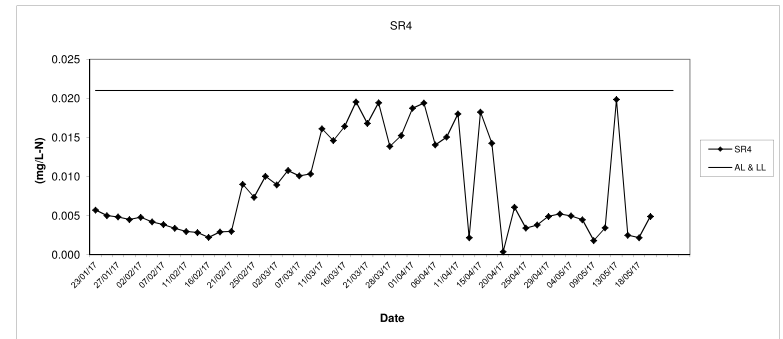
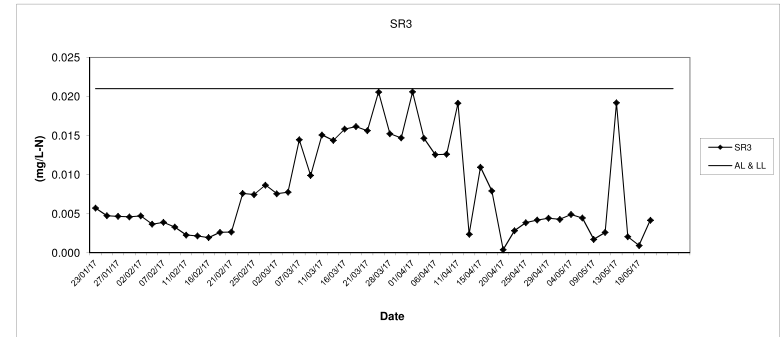
Ammonia Nitrogen (Depth average) at Mid-Ebb Tide



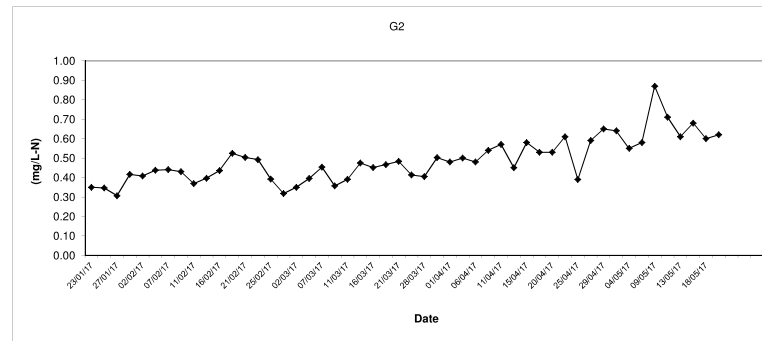
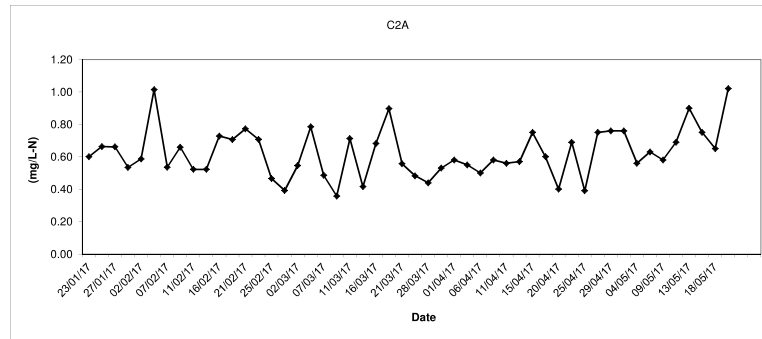
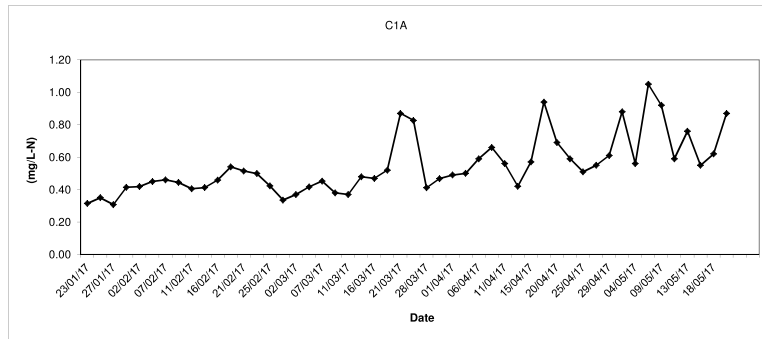
Laboratory Analysis UIA (Depth average) at Mid-Ebb Tide



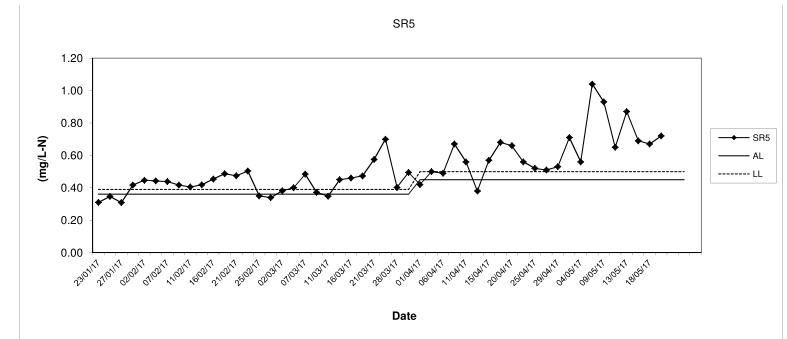
Laboratory Analysis UIA (Depth average) at Mid-Ebb Tide



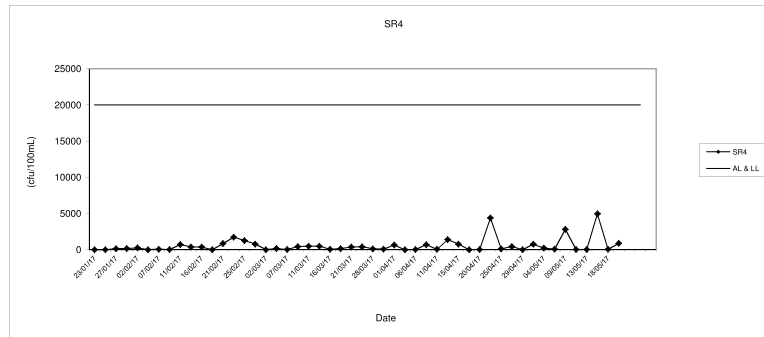
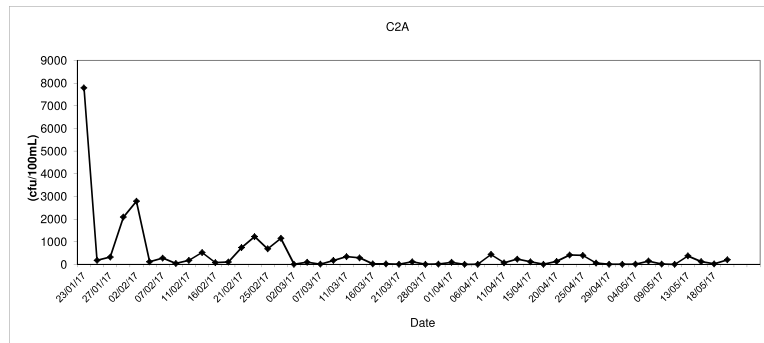
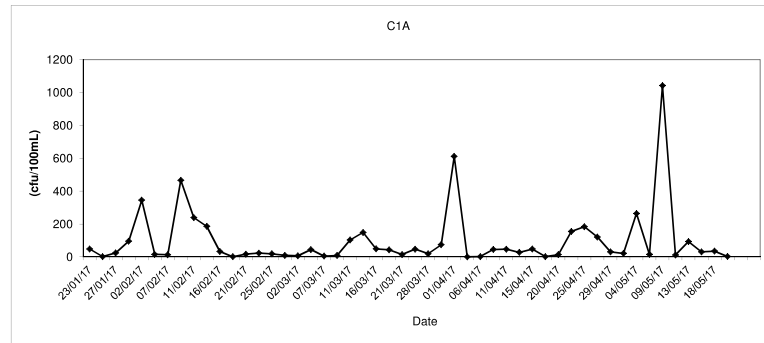
Laboratory Analysis TIN (Depth average) at Mid-Ebb Tide



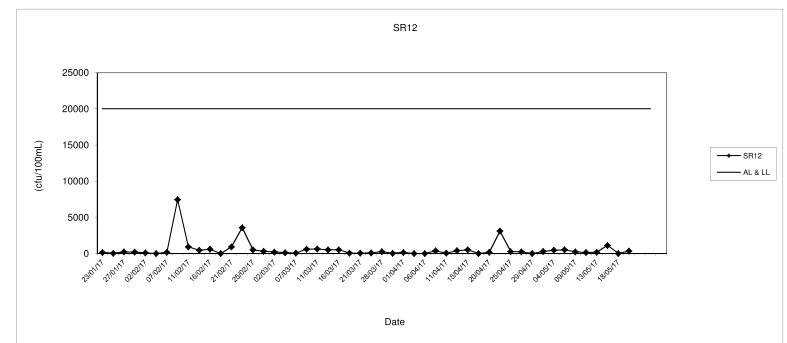
Laboratory Analysis TIN (Depth average) at Mid-Ebb Tide



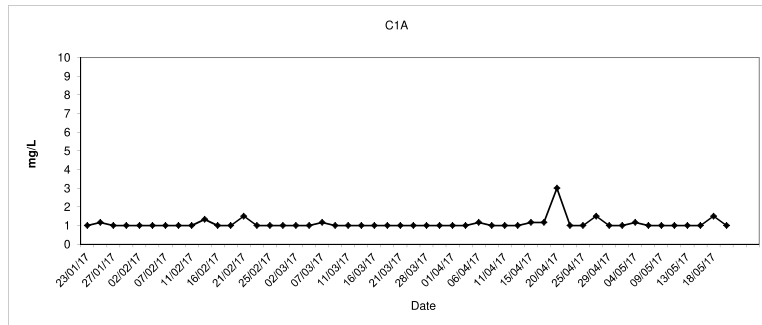
E.coli (Depth average) at Mid-Ebb Tide



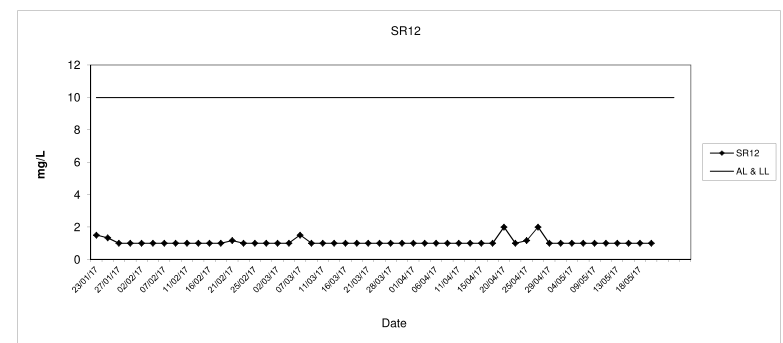
E.coli (Depth average) at Mid-Ebb Tide



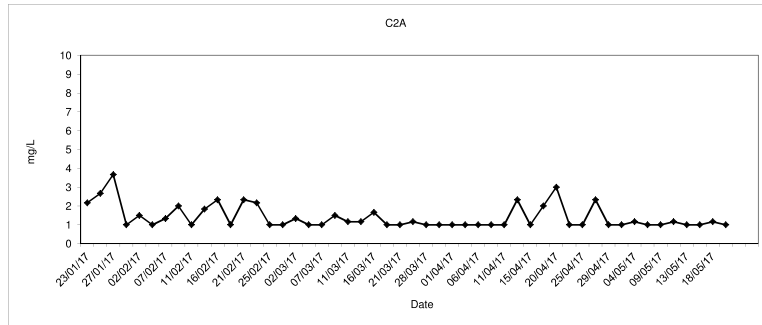
BOD<sub>5</sub> (Depth average) at Mid-Ebb Tide



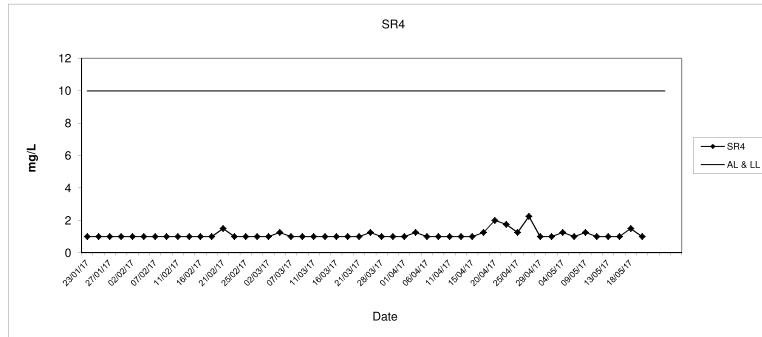
BOD<sub>5</sub> (Depth average) at Mid-Ebb Tide



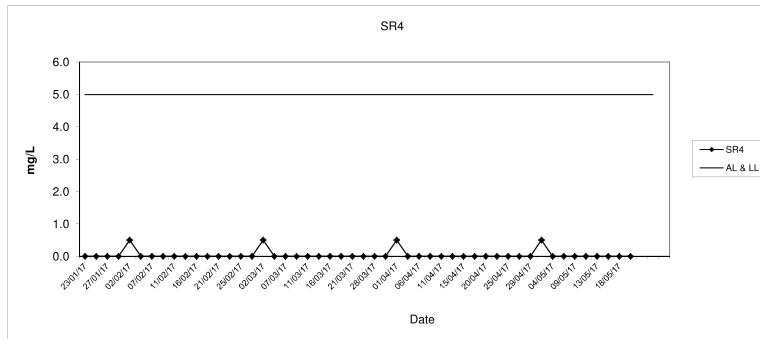
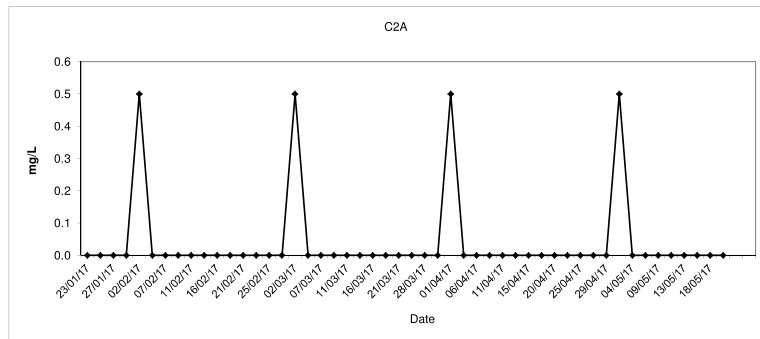
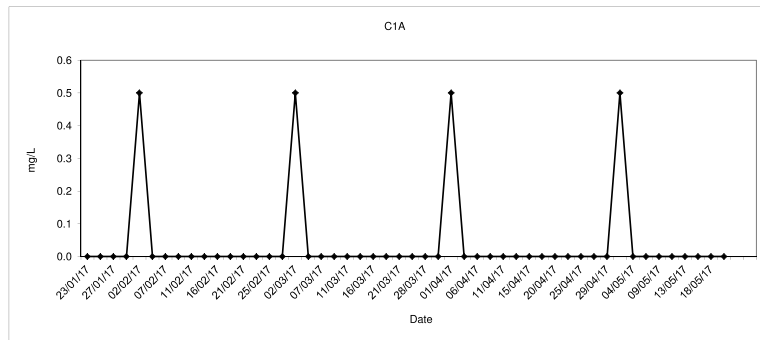
C2A



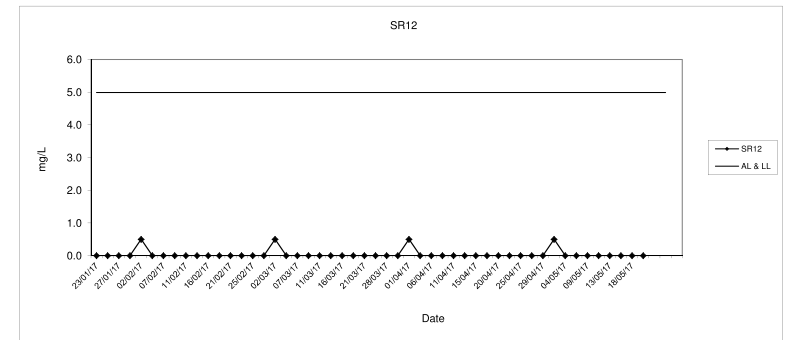
SR4



Synthetic Detergent (Depth average) at Mid-Ebb Tide



Synthetic Detergent (Depth average) at Mid-Ebb Tide





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**MaterialLab**

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Report No.: 0394/13/ED/0358

Appendix G

Water Quality Monitoring Results and Graphical Presentation – 24-hr Monitoring









24-hr Water Quality Monitoring

Station	Timestamp	NH <sub>3</sub> (mg/L)				Station	Timestamp	NH <sub>3</sub> (mg/L)			
SR4	4/23/2017 0:17	0.15				SR12	4/23/2017 0:17	0.14			
SR4	4/23/2017 0:37	0.17				SR12	4/23/2017 0:37	0.15			
SR4	4/23/2017 0:57	0.18				SR12	4/23/2017 0:57	0.15			
SR4	4/23/2017 1:17	0.14				SR12	4/23/2017 1:17	0.15			
SR4	4/23/2017 1:37	0.15				SR12	4/23/2017 1:37	0.13			
SR4	4/23/2017 1:57	0.17				SR12	4/23/2017 1:57	0.14			
SR4	4/23/2017 2:17	0.15				SR12	4/23/2017 2:17	0.17			
SR4	4/23/2017 2:37	0.17				SR12	4/23/2017 2:37	0.15			
SR4	4/23/2017 2:57	0.14				SR12	4/23/2017 2:57	0.13			
SR4	4/23/2017 3:17	0.14				SR12	4/23/2017 3:17	0.13			
SR4	4/23/2017 3:37	0.16				SR12	4/23/2017 3:37	0.16			
SR4	4/23/2017 3:57	0.14				SR12	4/23/2017 3:57	0.15			
SR4	4/23/2017 4:17	0.16				SR12	4/23/2017 4:17	0.15			
SR4	4/23/2017 4:37	0.17				SR12	4/23/2017 4:37	0.15			
SR4	4/23/2017 4:57	0.14				SR12	4/23/2017 4:57	0.14			
SR4	4/23/2017 5:17	0.14				SR12	4/23/2017 5:17	0.15			
SR4	4/23/2017 5:37	0.14				SR12	4/23/2017 5:37	0.16			
SR4	4/23/2017 5:57	0.18				SR12	4/23/2017 5:57	0.15			
SR4						SR12					
SR4	4/23/2017 6:37	0.16				SR12	4/23/2017 6:37	0.15			
SR4	4/23/2017 6:57	0.17				SR12	4/23/2017 6:57	0.16			
SR4	4/23/2017 7:17	0.18				SR12	4/23/2017 7:17	0.14			
SR4	4/23/2017 7:37	0.15				SR12	4/23/2017 7:37	0.14			
SR4	4/23/2017 7:57	0.17				SR12	4/23/2017 7:57	0.14			
SR4	4/23/2017 8:17	0.17				SR12	4/23/2017 8:17	0.15			
SR4	4/23/2017 8:37	0.15				SR12	4/23/2017 8:37	0.16			
SR4	4/23/2017 8:57	0.16				SR12	4/23/2017 8:57	0.15			
SR4	4/23/2017 9:17	0.17				SR12	4/23/2017 9:17	0.17			
SR4	4/23/2017 9:37	0.15				SR12	4/23/2017 9:37	0.16			
SR4	4/23/2017 9:57	0.15				SR12	4/23/2017 9:57	0.17			
SR4	4/23/2017 10:17	0.16				SR12	4/23/2017 10:17	0.17			
SR4	4/23/2017 10:37	0.13				SR12	4/23/2017 10:37	0.16			
SR4	4/23/2017 10:57	0.13				SR12	4/23/2017 10:57	0.16			
SR4	4/23/2017 11:17	0.17				SR12	4/23/2017 11:17	0.14			
SR4	4/23/2017 11:37	0.14				SR12	4/23/2017 11:37	0.14			
SR4	4/23/2017 11:57	0.15				SR12	4/23/2017 11:57	0.17			
SR4	4/23/2017 12:17	0.15				SR12	4/23/2017 12:17	0.13			
SR4	4/23/2017 12:37	0.18				SR12	4/23/2017 12:37	0.13			
SR4	4/23/2017 12:57	0.13				SR12	4/23/2017 12:57	0.13			
SR4	4/23/2017 13:17	0.13				SR12	4/23/2017 13:17	0.12			
SR4	4/23/2017 13:37	0.14				SR12	4/23/2017 13:37	0.13			
SR4	4/23/2017 13:57	0.16				SR12	4/23/2017 13:57	0.12			
SR4	4/23/2017 14:17	0.13				SR12	4/23/2017 14:17	0.14			
SR4	4/23/2017 14:37	0.15				SR12	4/23/2017 14:37	0.14			
SR4	4/23/2017 14:57	0.18				SR12	4/23/2017 14:57	0.16			
SR4	4/23/2017 15:17	0.15				SR12	4/23/2017 15:17	0.16			
SR4	4/23/2017 15:37	0.16				SR12	4/23/2017 15:37	0.13			
SR4	4/23/2017 15:57	0.13				SR12	4/23/2017 15:57	0.13			
SR4	4/23/2017 16:17	0.16				SR12	4/23/2017 16:17	0.15			
SR4	4/23/2017 16:37	0.18				SR12	4/23/2017 16:37	0.16			
SR4	4/23/2017 16:57	0.16				SR12	4/23/2017 16:57	0.16			
SR4	4/23/2017 17:17	0.18				SR12	4/23/2017 17:17	0.16			
SR4	4/23/2017 17:37	0.13				SR12	4/23/2017 17:37	0.15			
SR4	4/23/2017 17:57	0.14				SR12	4/23/2017 17:57	0.14			
SR4	4/23/2017 18:17	0.13				SR12	4/23/2017 18:17	0.12			
SR4	4/23/2017 18:37	0.14				SR12	4/23/2017 18:37	0.13			
SR4	4/23/2017 18:57	0.13				SR12	4/23/2017 18:57	0.12			
SR4	4/23/2017 19:17	0.12				SR12	4/23/2017 19:17	0.13			
SR4	4/23/2017 19:37	0.13				SR12	4/23/2017 19:37	0.16			
SR4	4/23/2017 19:57	0.12				SR12	4/23/2017 19:57	0.14			
SR4	4/23/2017 20:17	0.13				SR12	4/23/2017 20:17	0.16			
SR4	4/23/2017 20:37	0.14				SR12	4/23/2017 20:37	0.15			
SR4	4/23/2017 20:57	0.13				SR12	4/23/2017 20:57	0.16			
SR4	4/23/2017 21:17	0.11				SR12	4/23/2017 21:17	0.15			
SR4	4/23/2017 21:37	0.11				SR12	4/23/2017 21:37	0.15			
SR4	4/23/2017 21:57	0.13				SR12	4/23/2017 21:57	0.15			
SR4	4/23/2017 22:17	0.11				SR12	4/23/2017 22:17	0.12			
SR4	4/23/2017 22:37	0.14				SR12	4/23/2017 22:37	0.16			
SR4	4/23/2017 22:57	0.14				SR12	4/23/2017 22:57	0.12			
SR4	4/23/2017 23:17	0.12				SR12	4/23/2017 23:17	0.14			
SR4	4/23/2017 23:37	0.11				SR12	4/23/2017 23:37	0.12			
SR4	4/23/2017 23:57	0.14				SR12	4/23/2017 23:57	0.15			

Remark: Fonts with underline: Action Level Exceedance

**Fonts in Bold with underline: Limit Level Exceedance**

Automatic Instrument calibration of NH<sub>3</sub>-N monitor was carried out during 5:57-6:37 at SR4 and SR12.











24-hr Water Quality Monitoring

Station	Timestamp	NH <sub>3</sub> (mg/L)				Station	Timestamp	NH <sub>3</sub> (mg/L)			
SR4	4/24/2017 0:17	0.12				SR12	4/24/2017 0:17	0.13			
SR4	4/24/2017 0:37	0.12				SR12	4/24/2017 0:37	0.12			
SR4	4/24/2017 0:57	0.12				SR12	4/24/2017 0:57	0.13			
SR4	4/24/2017 1:17	0.11				SR12	4/24/2017 1:17	0.14			
SR4	4/24/2017 1:37	0.12				SR12	4/24/2017 1:37	0.16			
SR4	4/24/2017 1:57	0.14				SR12	4/24/2017 1:57	0.15			
SR4	4/24/2017 2:17	0.14				SR12	4/24/2017 2:17	0.15			
SR4	4/24/2017 2:37	0.14				SR12	4/24/2017 2:37	0.15			
SR4	4/24/2017 2:57	0.12				SR12	4/24/2017 2:57	0.12			
SR4	4/24/2017 3:17	0.12				SR12	4/24/2017 3:17	0.14			
SR4	4/24/2017 3:37	0.13				SR12	4/24/2017 3:37	0.12			
SR4	4/24/2017 3:57	0.11				SR12	4/24/2017 3:57	0.15			
SR4	4/24/2017 4:17	0.14				SR12	4/24/2017 4:17	0.16			
SR4	4/24/2017 4:37	0.12				SR12	4/24/2017 4:37	0.14			
SR4	4/24/2017 4:57	0.11				SR12	4/24/2017 4:57	0.13			
SR4	4/24/2017 5:17	0.12				SR12	4/24/2017 5:17	0.14			
SR4	4/24/2017 5:37	0.13				SR12	4/24/2017 5:37	0.16			
SR4	4/24/2017 5:57	0.13				SR12	4/24/2017 5:57	0.13			
SR4						SR12					
SR4	4/24/2017 6:37	0.11				SR12	4/24/2017 6:37	0.12			
SR4	4/24/2017 6:57	0.09				SR12	4/24/2017 6:57	0.14			
SR4	4/24/2017 7:17	0.10				SR12	4/24/2017 7:17	0.14			
SR4	4/24/2017 7:37	0.08				SR12	4/24/2017 7:37	0.12			
SR4	4/24/2017 7:57	0.08				SR12	4/24/2017 7:57	0.14			
SR4	4/24/2017 8:17	0.08				SR12	4/24/2017 8:17	0.12			
SR4	4/24/2017 8:37	0.08				SR12	4/24/2017 8:37	0.11			
SR4	4/24/2017 8:57	0.10				SR12	4/24/2017 8:57	0.13			
SR4	4/24/2017 9:17	0.08				SR12	4/24/2017 9:17	0.11			
SR4	4/24/2017 9:37	0.08				SR12	4/24/2017 9:37	0.14			
SR4	4/24/2017 9:57	0.09				SR12					
SR4	4/24/2017 10:17	0.12				SR12					
SR4	4/24/2017 10:37	0.10				SR12					
SR4	4/24/2017 10:57	0.12				SR12					
SR4	4/24/2017 11:17	0.12				SR12	4/24/2017 11:17	0.13			
SR4	4/24/2017 11:37	0.10				SR12	4/24/2017 11:37	0.13			
SR4	4/24/2017 11:57	0.08				SR12	4/24/2017 11:57	0.11			
SR4						SR12	4/24/2017 12:17	0.14			
SR4						SR12	4/24/2017 12:37	0.13			
SR4						SR12	4/24/2017 12:57	0.14			
SR4						SR12	4/24/2017 13:17	0.12			
SR4						SR12	4/24/2017 13:37	0.13			
SR4	4/24/2017 13:57	0.09				SR12	4/24/2017 13:57	0.13			
SR4	4/24/2017 14:17	0.10				SR12	4/24/2017 14:17	0.14			
SR4	4/24/2017 14:37	0.10				SR12	4/24/2017 14:37	0.14			
SR4	4/24/2017 14:57	0.12				SR12	4/24/2017 14:57	0.14			
SR4	4/24/2017 15:17	0.11				SR12	4/24/2017 15:17	0.12			
SR4	4/24/2017 15:37	0.09				SR12	4/24/2017 15:37	0.13			
SR4	4/24/2017 15:57	0.11				SR12	4/24/2017 15:57	0.13			
SR4	4/24/2017 16:17	0.11				SR12	4/24/2017 16:17	0.12			
SR4	4/24/2017 16:37	0.09				SR12	4/24/2017 16:37	0.14			
SR4	4/24/2017 16:57	0.12				SR12	4/24/2017 16:57	0.13			
SR4	4/24/2017 17:17	0.09				SR12	4/24/2017 17:17	0.12			
SR4	4/24/2017 17:37	0.10				SR12	4/24/2017 17:37	0.13			
SR4	4/24/2017 17:57	0.12				SR12	4/24/2017 17:57	0.12			
SR4	4/24/2017 18:17	0.09				SR12	4/24/2017 18:17	0.14			
SR4	4/24/2017 18:37	0.08				SR12	4/24/2017 18:37	0.12			
SR4	4/24/2017 18:57	0.11				SR12	4/24/2017 18:57	0.11			
SR4	4/24/2017 19:17	0.12				SR12	4/24/2017 19:17	0.11			
SR4	4/24/2017 19:37	0.12				SR12	4/24/2017 19:37	0.14			
SR4	4/24/2017 19:57	0.08				SR12	4/24/2017 19:57	0.12			
SR4	4/24/2017 20:17	0.10				SR12	4/24/2017 20:17	0.11			
SR4	4/24/2017 20:37	0.10				SR12	4/24/2017 20:37	0.12			
SR4	4/24/2017 20:57	0.09				SR12	4/24/2017 20:57	0.14			
SR4	4/24/2017 21:17	0.12				SR12	4/24/2017 21:17	0.13			
SR4	4/24/2017 21:37	0.12				SR12	4/24/2017 21:37	0.12			
SR4	4/24/2017 21:57	0.08				SR12	4/24/2017 21:57	0.12			
SR4	4/24/2017 22:17	0.11				SR12	4/24/2017 22:17	0.14			
SR4	4/24/2017 22:37	0.10				SR12	4/24/2017 22:37	0.13			
SR4	4/24/2017 22:57	0.09				SR12	4/24/2017 22:57	0.12			
SR4	4/24/2017 23:17	0.12				SR12	4/24/2017 23:17	0.11			
SR4	4/24/2017 23:37	0.08				SR12	4/24/2017 23:37	0.11			
SR4	4/24/2017 23:57	0.12				SR12	4/24/2017 23:57	0.10			

Remark: Fonts with underline: Action Level Exceedance

**Fonts in Bold with underline: Limit Level Exceedance**

Automatic Instrument calibration of NH<sub>3</sub>-N monitor was carried out during 5:57-6:37 at SR4 and SR12.

SR4 monitoring station was under maintenance during 12:11-13:31.

SR12 monitoring station was under maintenance during 9:41-11:01.

SR13 monitoring station was under maintenance during 15:35-16:00.









24-hr Water Quality Monitoring

Station	Timestamp	NH <sub>3</sub> (mg/L)				Station	Timestamp	NH <sub>3</sub> (mg/L)			
SR4	4/25/2017 0:17	0.09				SR12	4/25/2017 0:17	0.12			
SR4	4/25/2017 0:37	0.11				SR12	4/25/2017 0:37	0.10			
SR4	4/25/2017 0:57	0.12				SR12	4/25/2017 0:57	0.13			
SR4	4/25/2017 1:17	0.12				SR12	4/25/2017 1:17	0.13			
SR4	4/25/2017 1:37	0.14				SR12	4/25/2017 1:37	0.13			
SR4	4/25/2017 1:57	0.11				SR12	4/25/2017 1:57	0.13			
SR4	4/25/2017 2:17	0.14				SR12	4/25/2017 2:17	0.10			
SR4	4/25/2017 2:37	0.10				SR12	4/25/2017 2:37	0.12			
SR4	4/25/2017 2:57	0.12				SR12	4/25/2017 2:57	0.14			
SR4	4/25/2017 3:17	0.10				SR12	4/25/2017 3:17	0.10			
SR4	4/25/2017 3:37	0.11				SR12	4/25/2017 3:37	0.13			
SR4	4/25/2017 3:57	0.13				SR12	4/25/2017 3:57	0.13			
SR4	4/25/2017 4:17	0.10				SR12	4/25/2017 4:17	0.14			
SR4	4/25/2017 4:37	0.14				SR12	4/25/2017 4:37	0.12			
SR4	4/25/2017 4:57	0.11				SR12	4/25/2017 4:57	0.14			
SR4	4/25/2017 5:17	0.10				SR12	4/25/2017 5:17	0.11			
SR4	4/25/2017 5:37	0.11				SR12	4/25/2017 5:37	0.11			
SR4	4/25/2017 5:57	0.13				SR12	4/25/2017 5:57	0.14			
SR4						SR12					
SR4	4/25/2017 6:37	0.11				SR12	4/25/2017 6:37	0.11			
SR4	4/25/2017 6:57	0.10				SR12	4/25/2017 6:57	0.13			
SR4	4/25/2017 7:17	0.13				SR12	4/25/2017 7:17	0.14			
SR4	4/25/2017 7:37	0.10				SR12	4/25/2017 7:37	0.11			
SR4	4/25/2017 7:57	0.14				SR12	4/25/2017 7:57	0.12			
SR4	4/25/2017 8:17	0.10				SR12	4/25/2017 8:17	0.11			
SR4	4/25/2017 8:37	0.14				SR12	4/25/2017 8:37	0.11			
SR4	4/25/2017 8:57	0.10				SR12	4/25/2017 8:57	0.14			
SR4	4/25/2017 9:17	0.12				SR12	4/25/2017 9:17	0.10			
SR4	4/25/2017 9:37	0.13				SR12	4/25/2017 9:37	0.14			
SR4	4/25/2017 9:57	0.14				SR12	4/25/2017 9:57	0.13			
SR4	4/25/2017 10:17	0.12				SR12	4/25/2017 10:17	0.14			
SR4	4/25/2017 10:37	0.13				SR12	4/25/2017 10:37	0.14			
SR4	4/25/2017 10:57	0.11				SR12	4/25/2017 10:57	0.16			
SR4	4/25/2017 11:17	0.13				SR12	4/25/2017 11:17	0.16			
SR4	4/25/2017 11:37	0.11				SR12	4/25/2017 11:37	0.13			
SR4	4/25/2017 11:57	0.13				SR12	4/25/2017 11:57	0.13			
SR4	4/25/2017 12:17	0.14				SR12	4/25/2017 12:17	0.17			
SR4	4/25/2017 12:37	0.14				SR12	4/25/2017 12:37	0.16			
SR4	4/25/2017 12:57	0.12				SR12	4/25/2017 12:57	0.16			
SR4	4/25/2017 13:17	0.14				SR12	4/25/2017 13:17	0.17			
SR4	4/25/2017 13:37	0.12				SR12	4/25/2017 13:37	0.12			
SR4	4/25/2017 13:57	0.12				SR12	4/25/2017 13:57	0.12			
SR4	4/25/2017 14:17	0.14				SR12	4/25/2017 14:17	0.13			
SR4	4/25/2017 14:37	0.14				SR12	4/25/2017 14:37	0.15			
SR4	4/25/2017 14:57	0.12				SR12	4/25/2017 14:57	0.12			
SR4	4/25/2017 15:17	0.10				SR12	4/25/2017 15:17	0.12			
SR4	4/25/2017 15:37	0.13				SR12	4/25/2017 15:37	0.12			
SR4	4/25/2017 15:57	0.14				SR12	4/25/2017 15:57	0.16			
SR4	4/25/2017 16:17	0.12				SR12	4/25/2017 16:17	0.15			
SR4	4/25/2017 16:37	0.12				SR12	4/25/2017 16:37	0.13			
SR4	4/25/2017 16:57	0.11				SR12	4/25/2017 16:57	0.17			
SR4	4/25/2017 17:17	0.10				SR12	4/25/2017 17:17	0.12			
SR4	4/25/2017 17:37	0.13				SR12	4/25/2017 17:37	0.16			
SR4	4/25/2017 17:57	0.16				SR12	4/25/2017 17:57	0.17			
SR4	4/25/2017 18:17	0.13				SR12	4/25/2017 18:17	0.17			
SR4	4/25/2017 18:37	0.16				SR12	4/25/2017 18:37	0.17			
SR4	4/25/2017 18:57	0.16				SR12	4/25/2017 18:57	0.14			
SR4	4/25/2017 19:17	0.15				SR12	4/25/2017 19:17	0.13			
SR4	4/25/2017 19:37	0.16				SR12	4/25/2017 19:37	0.14			
SR4	4/25/2017 19:57	0.16				SR12	4/25/2017 19:57	0.16			
SR4	4/25/2017 20:17	0.14				SR12	4/25/2017 20:17	0.13			
SR4	4/25/2017 20:37	0.15				SR12	4/25/2017 20:37	0.15			
SR4	4/25/2017 20:57	0.14				SR12	4/25/2017 20:57	0.12			
SR4	4/25/2017 21:17	0.13				SR12	4/25/2017 21:17	0.16			
SR4	4/25/2017 21:37	0.14				SR12	4/25/2017 21:37	0.13			
SR4	4/25/2017 21:57	0.16				SR12	4/25/2017 21:57	0.14			
SR4	4/25/2017 22:17	0.17				SR12	4/25/2017 22:17	0.17			
SR4	4/25/2017 22:37	0.14				SR12	4/25/2017 22:37	0.15			
SR4	4/25/2017 22:57	0.14				SR12	4/25/2017 22:57	0.17			
SR4	4/25/2017 23:17	0.14				SR12	4/25/2017 23:17	0.13			
SR4	4/25/2017 23:37	0.15				SR12	4/25/2017 23:37	0.16			
SR4	4/25/2017 23:57	0.16				SR12	4/25/2017 23:57	0.15			

Remark: Fonts with underline: Action Level Exceedance

**Fonts in Bold with underline: Limit Level Exceedance**

Automatic Instrument calibration of NH3-N monitor was carried out during 5:57-6:37 at SR4 and SR12.  
SR5 monitoring station was under maintenance during 14:10-14:35.











24-hr Water Quality Monitoring

Station	Timestamp	NH <sub>3</sub> (mg/L)				Station	Timestamp	NH <sub>3</sub> (mg/L)			
SR4	4/26/2017 0:17	0.16				SR12	4/26/2017 0:17	0.16			
SR4	4/26/2017 0:37	0.15				SR12	4/26/2017 0:37	0.14			
SR4	4/26/2017 0:57	0.15				SR12	4/26/2017 0:57	0.15			
SR4	4/26/2017 1:17	0.17				SR12	4/26/2017 1:17	0.15			
SR4	4/26/2017 1:37	0.15				SR12	4/26/2017 1:37	0.14			
SR4	4/26/2017 1:57	0.15				SR12	4/26/2017 1:57	0.16			
SR4	4/26/2017 2:17	0.17				SR12	4/26/2017 2:17	0.16			
SR4	4/26/2017 2:37	0.17				SR12	4/26/2017 2:37	0.12			
SR4	4/26/2017 2:57	0.17				SR12	4/26/2017 2:57	0.14			
SR4	4/26/2017 3:17	0.15				SR12	4/26/2017 3:17	0.14			
SR4	4/26/2017 3:37	0.13				SR12	4/26/2017 3:37	0.14			
SR4	4/26/2017 3:57	0.17				SR12	4/26/2017 3:57	0.16			
SR4	4/26/2017 4:17	0.14				SR12	4/26/2017 4:17	0.17			
SR4	4/26/2017 4:37	0.16				SR12	4/26/2017 4:37	0.17			
SR4	4/26/2017 4:57	0.15				SR12	4/26/2017 4:57	0.17			
SR4	4/26/2017 5:17	0.14				SR12	4/26/2017 5:17	0.17			
SR4	4/26/2017 5:37	0.16				SR12	4/26/2017 5:37	0.17			
SR4	4/26/2017 5:57	0.17				SR12	4/26/2017 5:57	0.14			
SR4						SR12					
SR4	4/26/2017 6:37	0.16				SR12	4/26/2017 6:37	0.15			
SR4	4/26/2017 6:57	0.15				SR12	4/26/2017 6:57	0.15			
SR4	4/26/2017 7:17	0.16				SR12	4/26/2017 7:17	0.15			
SR4	4/26/2017 7:37	0.17				SR12	4/26/2017 7:37	0.14			
SR4	4/26/2017 7:57	0.13				SR12	4/26/2017 7:57	0.18			
SR4	4/26/2017 8:17	0.13				SR12	4/26/2017 8:17	0.15			
SR4	4/26/2017 8:37	0.13				SR12	4/26/2017 8:37	0.15			
SR4	4/26/2017 8:57	0.16				SR12	4/26/2017 8:57	0.17			
SR4	4/26/2017 9:17	0.15				SR12	4/26/2017 9:17	0.16			
SR4	4/26/2017 9:37	0.18				SR12	4/26/2017 9:37	0.16			
SR4	4/26/2017 9:57	0.16				SR12	4/26/2017 9:57	0.15			
SR4						SR12	4/26/2017 10:17	0.16			
SR4						SR12	4/26/2017 10:37	0.16			
SR4						SR12	4/26/2017 10:57	0.17			
SR4						SR12	4/26/2017 11:17	0.16			
SR4						SR12	4/26/2017 11:37	0.18			
SR4	4/26/2017 11:57	0.16				SR12	4/26/2017 11:57	0.14			
SR4	4/26/2017 12:17	0.14				SR12	4/26/2017 12:17	0.16			
SR4	4/26/2017 12:37	0.16				SR12	4/26/2017 12:37	0.14			
SR4	4/26/2017 12:57	0.18				SR12	4/26/2017 12:57	0.14			
SR4	4/26/2017 13:17	0.15				SR12					
SR4	4/26/2017 13:37	0.14				SR12					
SR4	4/26/2017 13:57	0.18				SR12					
SR4	4/26/2017 14:17	0.17				SR12					
SR4	4/26/2017 14:37	0.15				SR12					
SR4	4/26/2017 14:57	0.16				SR12					
SR4	4/26/2017 15:17	0.14				SR12	4/26/2017 15:17	0.14			
SR4	4/26/2017 15:37	0.17				SR12	4/26/2017 15:37	0.14			
SR4	4/26/2017 15:57	0.17				SR12	4/26/2017 15:57	0.18			
SR4	4/26/2017 16:17	0.18				SR12	4/26/2017 16:17	0.14			
SR4	4/26/2017 16:37	0.16				SR12	4/26/2017 16:37	0.14			
SR4	4/26/2017 16:57	0.18				SR12	4/26/2017 16:57	0.17			
SR4	4/26/2017 17:17	0.17				SR12	4/26/2017 17:17	0.16			
SR4	4/26/2017 17:37	0.15				SR12	4/26/2017 17:37	0.16			
SR4	4/26/2017 17:57	0.14				SR12	4/26/2017 17:57	0.15			
SR4	4/26/2017 18:17	0.18				SR12	4/26/2017 18:17	0.14			
SR4	4/26/2017 18:37	0.15				SR12	4/26/2017 18:37	0.18			
SR4	4/26/2017 18:57	0.14				SR12	4/26/2017 18:57	0.15			
SR4	4/26/2017 19:17	0.18				SR12	4/26/2017 19:17	0.17			
SR4	4/26/2017 19:37	0.14				SR12	4/26/2017 19:37	0.17			
SR4	4/26/2017 19:57	0.16				SR12	4/26/2017 19:57	0.15			
SR4	4/26/2017 20:17	0.18				SR12	4/26/2017 20:17	0.14			
SR4	4/26/2017 20:37	0.15				SR12	4/26/2017 20:37	0.18			
SR4	4/26/2017 20:57	0.15				SR12	4/26/2017 20:57	0.16			
SR4	4/26/2017 21:17	0.17				SR12	4/26/2017 21:17	0.16			
SR4	4/26/2017 21:37	0.15				SR12	4/26/2017 21:37	0.17			
SR4	4/26/2017 21:57	0.16				SR12	4/26/2017 21:57	0.18			
SR4	4/26/2017 22:17	0.14				SR12	4/26/2017 22:17	0.20			
SR4	4/26/2017 22:37	0.14				SR12	4/26/2017 22:37	0.17			
SR4	4/26/2017 22:57	0.16				SR12	4/26/2017 22:57	0.18			
SR4	4/26/2017 23:17	0.18				SR12	4/26/2017 23:17	0.19			
SR4	4/26/2017 23:37	0.17				SR12	4/26/2017 23:37	0.17			
SR4	4/26/2017 23:57	0.16				SR12	4/26/2017 23:57	0.18			

Remark: Fonts with underline: Action Level Exceedance

**Fonts in Bold with underline: Limit Level Exceedance**

Automatic Instrument calibration of NH3-N monitor was carried out during 5:57-6:37 at SR4 and SR12.

SR4 monitoring station was under maintenance during 10:11-11:31.

SR12 monitoring station was under maintenance during 13:16-14:41.











24-hr Water Quality Monitoring

Station	Timestamp	NH <sub>3</sub> (mg/L)				Station	Timestamp	NH <sub>3</sub> (mg/L)			
SR4	4/27/2017 0:17	0.14				SR12	4/27/2017 0:17	0.17			
SR4	4/27/2017 0:37	0.17				SR12	4/27/2017 0:37	0.19			
SR4	4/27/2017 0:57	0.17				SR12	4/27/2017 0:57	0.17			
SR4	4/27/2017 1:17	0.18				SR12	4/27/2017 1:17	0.21			
SR4	4/27/2017 1:37	0.17				SR12	4/27/2017 1:37	0.20			
SR4	4/27/2017 1:57	0.16				SR12	4/27/2017 1:57	0.19			
SR4	4/27/2017 2:17	0.17				SR12	4/27/2017 2:17	0.19			
SR4	4/27/2017 2:37	0.16				SR12	4/27/2017 2:37	0.21			
SR4	4/27/2017 2:57	0.17				SR12	4/27/2017 2:57	0.19			
SR4	4/27/2017 3:17	0.17				SR12	4/27/2017 3:17	0.18			
SR4	4/27/2017 3:37	0.17				SR12	4/27/2017 3:37	0.18			
SR4	4/27/2017 3:57	0.14				SR12	4/27/2017 3:57	0.17			
SR4	4/27/2017 4:17	0.15				SR12	4/27/2017 4:17	0.20			
SR4	4/27/2017 4:37	0.16				SR12	4/27/2017 4:37	0.18			
SR4	4/27/2017 4:57	0.15				SR12	4/27/2017 4:57	0.18			
SR4	4/27/2017 5:17	0.14				SR12	4/27/2017 5:17	0.17			
SR4	4/27/2017 5:37	0.16				SR12	4/27/2017 5:37	0.21			
SR4	4/27/2017 5:57	0.16				SR12	4/27/2017 5:57	0.17			
SR4						SR12					
SR4	4/27/2017 6:37	0.14				SR12	4/27/2017 6:37	0.20			
SR4	4/27/2017 6:57	0.14				SR12	4/27/2017 6:57	0.17			
SR4	4/27/2017 7:17	0.15				SR12	4/27/2017 7:17	0.20			
SR4	4/27/2017 7:37	0.16				SR12	4/27/2017 7:37	0.19			
SR4	4/27/2017 7:57	0.14				SR12	4/27/2017 7:57	0.17			
SR4	4/27/2017 8:17	0.14				SR12	4/27/2017 8:17	0.19			
SR4	4/27/2017 8:37	0.15				SR12	4/27/2017 8:37	0.17			
SR4	4/27/2017 8:57	0.13				SR12	4/27/2017 8:57	0.18			
SR4	4/27/2017 9:17	0.16				SR12	4/27/2017 9:17	0.18			
SR4	4/27/2017 9:37	0.16				SR12	4/27/2017 9:37	0.19			
SR4	4/27/2017 9:57	0.14				SR12	4/27/2017 9:57	0.18			
SR4	4/27/2017 10:17	0.17				SR12	4/27/2017 10:17	0.18			
SR4	4/27/2017 10:37	0.14				SR12	4/27/2017 10:37	0.20			
SR4	4/27/2017 10:57	0.15				SR12	4/27/2017 10:57	0.21			
SR4	4/27/2017 11:17	0.13				SR12	4/27/2017 11:17	0.21			
SR4	4/27/2017 11:37	0.14				SR12	4/27/2017 11:37	0.18			
SR4	4/27/2017 11:57	0.16				SR12	4/27/2017 11:57	0.17			
SR4	4/27/2017 12:17	0.13				SR12	4/27/2017 12:17	0.19			
SR4	4/27/2017 12:37	0.16				SR12	4/27/2017 12:37	0.19			
SR4	4/27/2017 12:57	0.15				SR12	4/27/2017 12:57	0.21			
SR4	4/27/2017 13:17	0.17				SR12	4/27/2017 13:17	0.18			
SR4	4/27/2017 13:37	0.14				SR12	4/27/2017 13:37	0.21			
SR4	4/27/2017 13:57	0.14				SR12	4/27/2017 13:57	0.21			
SR4	4/27/2017 14:17	0.13				SR12	4/27/2017 14:17	0.20			
SR4	4/27/2017 14:37	0.13				SR12	4/27/2017 14:37	0.21			
SR4	4/27/2017 14:57	0.13				SR12	4/27/2017 14:57	0.17			
SR4	4/27/2017 15:17	0.13				SR12	4/27/2017 15:17	0.17			
SR4	4/27/2017 15:37	0.15				SR12	4/27/2017 15:37	0.17			
SR4	4/27/2017 15:57	0.17				SR12	4/27/2017 15:57	0.16			
SR4	4/27/2017 16:17	0.14				SR12	4/27/2017 16:17	0.18			
SR4	4/27/2017 16:37	0.16				SR12	4/27/2017 16:37	0.18			
SR4	4/27/2017 16:57	0.17				SR12	4/27/2017 16:57	0.16			
SR4	4/27/2017 17:17	0.16				SR12	4/27/2017 17:17	0.17			
SR4	4/27/2017 17:37	0.16				SR12	4/27/2017 17:37	0.19			
SR4	4/27/2017 17:57	0.15				SR12	4/27/2017 17:57	0.19			
SR4	4/27/2017 18:17	0.13				SR12	4/27/2017 18:17	0.17			
SR4	4/27/2017 18:37	0.13				SR12	4/27/2017 18:37	0.19			
SR4	4/27/2017 18:57	0.14				SR12	4/27/2017 18:57	0.20			
SR4	4/27/2017 19:17	0.16				SR12	4/27/2017 19:17	0.20			
SR4	4/27/2017 19:37	0.14				SR12	4/27/2017 19:37	0.16			
SR4	4/27/2017 19:57	0.15				SR12	4/27/2017 19:57	0.19			
SR4	4/27/2017 20:17	0.14				SR12	4/27/2017 20:17	0.17			
SR4	4/27/2017 20:37	0.13				SR12	4/27/2017 20:37	0.19			
SR4	4/27/2017 20:57	0.13				SR12	4/27/2017 20:57	0.19			
SR4	4/27/2017 21:17	0.14				SR12	4/27/2017 21:17	0.18			
SR4	4/27/2017 21:37	0.14				SR12	4/27/2017 21:37	0.19			
SR4	4/27/2017 21:57	0.13				SR12	4/27/2017 21:57	0.18			
SR4	4/27/2017 22:17	0.15				SR12	4/27/2017 22:17	0.17			
SR4	4/27/2017 22:37	0.12				SR12	4/27/2017 22:37	0.18			
SR4	4/27/2017 22:57	0.12				SR12	4/27/2017 22:57	0.16			
SR4	4/27/2017 23:17	0.12				SR12	4/27/2017 23:17	0.19			
SR4	4/27/2017 23:37	0.14				SR12	4/27/2017 23:37	0.18			
SR4	4/27/2017 23:57	0.12				SR12	4/27/2017 23:57	0.16			

Remark: Fonts with underline: Action Level Exceedance

**Fonts in Bold with underline: Limit Level Exceedance**

Automatic Instrument calibration of NH3-N monitor was carried out during 5:57-6:37 at SR4 and SR12. SR5 monitoring station was under maintenance during 10:35-10:55.









24-hr Water Quality Monitoring

Station	Timestamp	NH <sub>3</sub> (mg/L)				Station	Timestamp	NH <sub>3</sub> (mg/L)			
SR4	4/28/2017 0:17	0.13				SR12	4/28/2017 0:17	0.19			
SR4	4/28/2017 0:37	0.13				SR12	4/28/2017 0:37	0.18			
SR4	4/28/2017 0:57	0.14				SR12	4/28/2017 0:57	0.19			
SR4	4/28/2017 1:17	0.13				SR12	4/28/2017 1:17	0.16			
SR4	4/28/2017 1:37	0.15				SR12	4/28/2017 1:37	0.20			
SR4	4/28/2017 1:57	0.12				SR12	4/28/2017 1:57	0.16			
SR4	4/28/2017 2:17	0.15				SR12	4/28/2017 2:17	0.18			
SR4	4/28/2017 2:37	0.12				SR12	4/28/2017 2:37	0.20			
SR4	4/28/2017 2:57	0.12				SR12	4/28/2017 2:57	0.19			
SR4	4/28/2017 3:17	0.15				SR12	4/28/2017 3:17	0.18			
SR4	4/28/2017 3:37	0.12				SR12	4/28/2017 3:37	0.16			
SR4	4/28/2017 3:57	0.15				SR12	4/28/2017 3:57	0.18			
SR4	4/28/2017 4:17	0.13				SR12	4/28/2017 4:17	0.19			
SR4	4/28/2017 4:37	0.13				SR12	4/28/2017 4:37	0.16			
SR4	4/28/2017 4:57	0.14				SR12	4/28/2017 4:57	0.16			
SR4	4/28/2017 5:17	0.13				SR12	4/28/2017 5:17	0.15			
SR4	4/28/2017 5:37	0.13				SR12	4/28/2017 5:37	0.17			
SR4	4/28/2017 5:57	0.13				SR12	4/28/2017 5:57	0.14			
SR4						SR12					
SR4	4/28/2017 6:37	0.15				SR12	4/28/2017 6:37	0.17			
SR4	4/28/2017 6:57	0.14				SR12	4/28/2017 6:57	0.16			
SR4	4/28/2017 7:17	0.12				SR12	4/28/2017 7:17	0.14			
SR4	4/28/2017 7:37	0.14				SR12	4/28/2017 7:37	0.17			
SR4	4/28/2017 7:57	0.13				SR12	4/28/2017 7:57	0.14			
SR4	4/28/2017 8:17	0.13				SR12	4/28/2017 8:17	0.17			
SR4	4/28/2017 8:37	0.15				SR12	4/28/2017 8:37	0.15			
SR4	4/28/2017 8:57	0.15				SR12	4/28/2017 8:57	0.17			
SR4	4/28/2017 9:17	0.15				SR12	4/28/2017 9:17	0.18			
SR4	4/28/2017 9:37	0.14				SR12	4/28/2017 9:37	0.16			
SR4	4/28/2017 9:57	0.12				SR12	4/28/2017 9:57	0.18			
SR4	4/28/2017 10:17	0.13				SR12	4/28/2017 10:17	0.17			
SR4	4/28/2017 10:37	0.12				SR12	4/28/2017 10:37	0.18			
SR4	4/28/2017 10:57	0.15				SR12	4/28/2017 10:57	0.15			
SR4	4/28/2017 11:17	0.12				SR12	4/28/2017 11:17	0.14			
SR4	4/28/2017 11:37	0.14				SR12	4/28/2017 11:37	0.16			
SR4	4/28/2017 11:57	0.15				SR12	4/28/2017 11:57	0.16			
SR4	4/28/2017 12:17	0.13				SR12	4/28/2017 12:17	0.16			
SR4	4/28/2017 12:37	0.14				SR12	4/28/2017 12:37	0.18			
SR4	4/28/2017 12:57	0.13				SR12	4/28/2017 12:57	0.16			
SR4	4/28/2017 13:17	0.13				SR12	4/28/2017 13:17	0.16			
SR4	4/28/2017 13:37	0.12				SR12	4/28/2017 13:37	0.14			
SR4	4/28/2017 13:57	0.15				SR12	4/28/2017 13:57	0.14			
SR4	4/28/2017 14:17	0.15				SR12	4/28/2017 14:17	0.16			
SR4	4/28/2017 14:37	0.13				SR12	4/28/2017 14:37	0.17			
SR4	4/28/2017 14:57	0.13				SR12	4/28/2017 14:57	0.14			
SR4	4/28/2017 15:17	0.12				SR12	4/28/2017 15:17	0.15			
SR4	4/28/2017 15:37	0.12				SR12	4/28/2017 15:37	0.17			
SR4	4/28/2017 15:57	0.12				SR12	4/28/2017 15:57	0.18			
SR4	4/28/2017 16:17	0.15				SR12	4/28/2017 16:17	0.18			
SR4	4/28/2017 16:37	0.14				SR12	4/28/2017 16:37	0.18			
SR4	4/28/2017 16:57	0.13				SR12	4/28/2017 16:57	0.16			
SR4	4/28/2017 17:17	0.13				SR12	4/28/2017 17:17	0.18			
SR4	4/28/2017 17:37	0.13				SR12	4/28/2017 17:37	0.14			
SR4	4/28/2017 17:57	0.14				SR12	4/28/2017 17:57	0.13			
SR4	4/28/2017 18:17	0.12				SR12	4/28/2017 18:17	0.13			
SR4	4/28/2017 18:37	0.13				SR12	4/28/2017 18:37	0.12			
SR4	4/28/2017 18:57	0.12				SR12	4/28/2017 18:57	0.14			
SR4	4/28/2017 19:17	0.12				SR12	4/28/2017 19:17	0.13			
SR4	4/28/2017 19:37	0.13				SR12	4/28/2017 19:37	0.16			
SR4	4/28/2017 19:57	0.14				SR12	4/28/2017 19:57	0.16			
SR4	4/28/2017 20:17	0.13				SR12	4/28/2017 20:17	0.16			
SR4	4/28/2017 20:37	0.12				SR12	4/28/2017 20:37	0.14			
SR4	4/28/2017 20:57	0.11				SR12	4/28/2017 20:57	0.16			
SR4	4/28/2017 21:17	0.12				SR12	4/28/2017 21:17	0.13			
SR4	4/28/2017 21:37	0.15				SR12	4/28/2017 21:37	0.12			
SR4	4/28/2017 21:57	0.14				SR12	4/28/2017 21:57	0.12			
SR4	4/28/2017 22:17	0.15				SR12	4/28/2017 22:17	0.15			
SR4	4/28/2017 22:37	0.12				SR12	4/28/2017 22:37	0.15			
SR4	4/28/2017 22:57	0.11				SR12	4/28/2017 22:57	0.13			
SR4	4/28/2017 23:17	0.15				SR12	4/28/2017 23:17	0.13			
SR4	4/28/2017 23:37	0.14				SR12	4/28/2017 23:37	0.15			
SR4	4/28/2017 23:57	0.12				SR12	4/28/2017 23:57	0.16			

Remark: Fonts with underline: Action Level Exceedance

**Fonts in Bold with underline: Limit Level Exceedance**

Automatic Instrument calibration of NH3-N monitor was carried out during 5:57-6:37 at SR4 and SR12. SR13 monitoring station was under maintenance during 15:10-15:30.











24-hr Water Quality Monitoring

Station	Timestamp	NH <sub>3</sub> (mg/L)				Station	Timestamp	NH <sub>3</sub> (mg/L)			
SR4	4/29/2017 0:17	0.14				SR12	4/29/2017 0:17	0.16			
SR4	4/29/2017 0:37	0.13				SR12	4/29/2017 0:37	0.16			
SR4	4/29/2017 0:57	0.12				SR12	4/29/2017 0:57	0.13			
SR4	4/29/2017 1:17	0.11				SR12	4/29/2017 1:17	0.16			
SR4	4/29/2017 1:37	0.13				SR12	4/29/2017 1:37	0.16			
SR4	4/29/2017 1:57	0.12				SR12	4/29/2017 1:57	0.16			
SR4	4/29/2017 2:17	0.15				SR12	4/29/2017 2:17	0.12			
SR4	4/29/2017 2:37	0.11				SR12	4/29/2017 2:37	0.13			
SR4	4/29/2017 2:57	0.13				SR12	4/29/2017 2:57	0.16			
SR4	4/29/2017 3:17	0.11				SR12	4/29/2017 3:17	0.15			
SR4	4/29/2017 3:37	0.14				SR12	4/29/2017 3:37	0.16			
SR4	4/29/2017 3:57	0.15				SR12	4/29/2017 3:57	0.13			
SR4	4/29/2017 4:17	0.14				SR12	4/29/2017 4:17	0.13			
SR4	4/29/2017 4:37	0.14				SR12	4/29/2017 4:37	0.12			
SR4	4/29/2017 4:57	0.14				SR12	4/29/2017 4:57	0.12			
SR4	4/29/2017 5:17	0.15				SR12	4/29/2017 5:17	0.16			
SR4	4/29/2017 5:37	0.15				SR12	4/29/2017 5:37	0.16			
SR4	4/29/2017 5:57	0.14				SR12	4/29/2017 5:57	0.15			
SR4						SR12					
SR4	4/29/2017 6:37	0.15				SR12	4/29/2017 6:37	0.16			
SR4	4/29/2017 6:57	0.12				SR12	4/29/2017 6:57	0.14			
SR4	4/29/2017 7:17	0.15				SR12	4/29/2017 7:17	0.14			
SR4	4/29/2017 7:37	0.14				SR12	4/29/2017 7:37	0.13			
SR4	4/29/2017 7:57	0.13				SR12	4/29/2017 7:57	0.15			
SR4	4/29/2017 8:17	0.14				SR12	4/29/2017 8:17	0.13			
SR4	4/29/2017 8:37	0.11				SR12	4/29/2017 8:37	0.12			
SR4	4/29/2017 8:57	0.10				SR12	4/29/2017 8:57	0.13			
SR4	4/29/2017 9:17	0.12				SR12	4/29/2017 9:17	0.14			
SR4	4/29/2017 9:37	0.13				SR12	4/29/2017 9:37	0.12			
SR4	4/29/2017 9:57	0.13				SR12	4/29/2017 9:57	0.12			
SR4	4/29/2017 10:17	0.11				SR12	4/29/2017 10:17	0.12			
SR4	4/29/2017 10:37	0.13				SR12	4/29/2017 10:37	0.12			
SR4	4/29/2017 10:57	0.13				SR12	4/29/2017 10:57	0.14			
SR4	4/29/2017 11:17	0.13				SR12	4/29/2017 11:17	0.16			
SR4	4/29/2017 11:37	0.14				SR12	4/29/2017 11:37	0.16			
SR4	4/29/2017 11:57	0.11				SR12	4/29/2017 11:57	0.16			
SR4	4/29/2017 12:17	0.13				SR12	4/29/2017 12:17	0.12			
SR4	4/29/2017 12:37	0.13				SR12	4/29/2017 12:37	0.14			
SR4	4/29/2017 12:57	0.12				SR12	4/29/2017 12:57	0.14			
SR4	4/29/2017 13:17	0.14				SR12	4/29/2017 13:17	0.12			
SR4	4/29/2017 13:37	0.14				SR12	4/29/2017 13:37	0.14			
SR4	4/29/2017 13:57	0.10				SR12	4/29/2017 13:57	0.12			
SR4	4/29/2017 14:17	0.14				SR12	4/29/2017 14:17	0.14			
SR4	4/29/2017 14:37	0.14				SR12	4/29/2017 14:37	0.13			
SR4	4/29/2017 14:57	0.13				SR12	4/29/2017 14:57	0.12			
SR4	4/29/2017 15:17	0.11				SR12	4/29/2017 15:17	0.12			
SR4	4/29/2017 15:37	0.10				SR12	4/29/2017 15:37	0.12			
SR4	4/29/2017 15:57	0.14				SR12	4/29/2017 15:57	0.15			
SR4	4/29/2017 16:17	0.12				SR12	4/29/2017 16:17	0.14			
SR4	4/29/2017 16:37	0.12				SR12	4/29/2017 16:37	0.14			
SR4	4/29/2017 16:57	0.12				SR12	4/29/2017 16:57	0.15			
SR4	4/29/2017 17:17	0.14				SR12	4/29/2017 17:17	0.15			
SR4	4/29/2017 17:37	0.11				SR12	4/29/2017 17:37	0.13			
SR4	4/29/2017 17:57	0.13				SR12	4/29/2017 17:57	0.13			
SR4	4/29/2017 18:17	0.12				SR12	4/29/2017 18:17	0.12			
SR4	4/29/2017 18:37	0.13				SR12	4/29/2017 18:37	0.15			
SR4	4/29/2017 18:57	0.10				SR12	4/29/2017 18:57	0.16			
SR4	4/29/2017 19:17	0.11				SR12	4/29/2017 19:17	0.15			
SR4	4/29/2017 19:37	0.10				SR12	4/29/2017 19:37	0.12			
SR4	4/29/2017 19:57	0.14				SR12	4/29/2017 19:57	0.12			
SR4	4/29/2017 20:17	0.11				SR12	4/29/2017 20:17	0.16			
SR4	4/29/2017 20:37	0.13				SR12	4/29/2017 20:37	0.14			
SR4	4/29/2017 20:57	0.10				SR12	4/29/2017 20:57	0.15			
SR4	4/29/2017 21:17	0.13				SR12	4/29/2017 21:17	0.12			
SR4	4/29/2017 21:37	0.11				SR12	4/29/2017 21:37	0.14			
SR4	4/29/2017 21:57	0.13				SR12	4/29/2017 21:57	0.13			
SR4	4/29/2017 22:17	0.11				SR12	4/29/2017 22:17	0.15			
SR4	4/29/2017 22:37	0.13				SR12	4/29/2017 22:37	0.16			
SR4	4/29/2017 22:57	0.15				SR12	4/29/2017 22:57	0.14			
SR4	4/29/2017 23:17	0.13				SR12	4/29/2017 23:17	0.15			
SR4	4/29/2017 23:37	0.12				SR12	4/29/2017 23:37	0.15			
SR4	4/29/2017 23:57	0.13				SR12	4/29/2017 23:57	0.13			

Remark: Fonts with underline: Action Level Exceedance

**Fonts in Bold with underline: Limit Level Exceedance**

Automatic Instrument calibration of NH<sub>3</sub>-N monitor was carried out during 5:57-6:37 at SR4 and SR12.











24-hr Water Quality Monitoring

Station	Timestamp	NH <sub>3</sub> (mg/L)				Station	Timestamp	NH <sub>3</sub> (mg/L)			
SR4	4/30/2017 0:17	0.15				SR12	4/30/2017 0:17	0.16			
SR4	4/30/2017 0:37	0.16				SR12	4/30/2017 0:37	0.15			
SR4	4/30/2017 0:57	0.15				SR12	4/30/2017 0:57	0.14			
SR4	4/30/2017 1:17	0.13				SR12	4/30/2017 1:17	0.12			
SR4	4/30/2017 1:37	0.15				SR12	4/30/2017 1:37	0.14			
SR4	4/30/2017 1:57	0.14				SR12	4/30/2017 1:57	0.14			
SR4	4/30/2017 2:17	0.14				SR12	4/30/2017 2:17	0.12			
SR4	4/30/2017 2:37	0.12				SR12	4/30/2017 2:37	0.15			
SR4	4/30/2017 2:57	0.15				SR12	4/30/2017 2:57	0.12			
SR4	4/30/2017 3:17	0.13				SR12	4/30/2017 3:17	0.12			
SR4	4/30/2017 3:37	0.13				SR12	4/30/2017 3:37	0.12			
SR4	4/30/2017 3:57	0.16				SR12	4/30/2017 3:57	0.15			
SR4	4/30/2017 4:17	0.14				SR12	4/30/2017 4:17	0.15			
SR4	4/30/2017 4:37	0.14				SR12	4/30/2017 4:37	0.13			
SR4	4/30/2017 4:57	0.14				SR12	4/30/2017 4:57	0.12			
SR4	4/30/2017 5:17	0.13				SR12	4/30/2017 5:17	0.12			
SR4	4/30/2017 5:37	0.13				SR12	4/30/2017 5:37	0.14			
SR4	4/30/2017 5:57	0.14				SR12	4/30/2017 5:57	0.13			
SR4						SR12					
SR4	4/30/2017 6:37	0.14				SR12	4/30/2017 6:37	0.12			
SR4	4/30/2017 6:57	0.16				SR12	4/30/2017 6:57	0.11			
SR4	4/30/2017 7:17	0.13				SR12	4/30/2017 7:17	0.12			
SR4	4/30/2017 7:37	0.14				SR12	4/30/2017 7:37	0.12			
SR4	4/30/2017 7:57	0.12				SR12	4/30/2017 7:57	0.15			
SR4	4/30/2017 8:17	0.12				SR12	4/30/2017 8:17	0.11			
SR4	4/30/2017 8:37	0.14				SR12	4/30/2017 8:37	0.11			
SR4	4/30/2017 8:57	0.15				SR12	4/30/2017 8:57	0.14			
SR4	4/30/2017 9:17	0.14				SR12	4/30/2017 9:17	0.13			
SR4	4/30/2017 9:37	0.16				SR12	4/30/2017 9:37	0.11			
SR4	4/30/2017 9:57	0.15				SR12	4/30/2017 9:57	0.11			
SR4	4/30/2017 10:17	0.13				SR12	4/30/2017 10:17	0.15			
SR4	4/30/2017 10:37	0.13				SR12	4/30/2017 10:37	0.15			
SR4	4/30/2017 10:57	0.12				SR12	4/30/2017 10:57	0.14			
SR4	4/30/2017 11:17	0.14				SR12	4/30/2017 11:17	0.14			
SR4	4/30/2017 11:37	0.12				SR12	4/30/2017 11:37	0.11			
SR4	4/30/2017 11:57	0.14				SR12	4/30/2017 11:57	0.14			
SR4	4/30/2017 12:17	0.16				SR12	4/30/2017 12:17	0.13			
SR4	4/30/2017 12:37	0.14				SR12	4/30/2017 12:37	0.13			
SR4	4/30/2017 12:57	0.14				SR12	4/30/2017 12:57	0.14			
SR4	4/30/2017 13:17	0.12				SR12	4/30/2017 13:17	0.13			
SR4	4/30/2017 13:37	0.13				SR12	4/30/2017 13:37	0.13			
SR4	4/30/2017 13:57	0.14				SR12	4/30/2017 13:57	0.12			
SR4	4/30/2017 14:17	0.14				SR12	4/30/2017 14:17	0.13			
SR4	4/30/2017 14:37	0.15				SR12	4/30/2017 14:37	0.15			
SR4	4/30/2017 14:57	0.16				SR12	4/30/2017 14:57	0.11			
SR4	4/30/2017 15:17	0.16				SR12	4/30/2017 15:17	0.15			
SR4	4/30/2017 15:37	0.19				SR12	4/30/2017 15:37	0.12			
SR4	4/30/2017 15:57	0.19				SR12	4/30/2017 15:57	0.14			
SR4	4/30/2017 16:17	0.18				SR12	4/30/2017 16:17	0.14			
SR4	4/30/2017 16:37	0.16				SR12	4/30/2017 16:37	0.12			
SR4	4/30/2017 16:57	0.19				SR12	4/30/2017 16:57	0.12			
SR4	4/30/2017 17:17	0.16				SR12	4/30/2017 17:17	0.15			
SR4	4/30/2017 17:37	0.19				SR12	4/30/2017 17:37	0.11			
SR4	4/30/2017 17:57	0.16				SR12	4/30/2017 17:57	0.11			
SR4	4/30/2017 18:17	0.19				SR12	4/30/2017 18:17	0.11			
SR4	4/30/2017 18:37	0.16				SR12	4/30/2017 18:37	0.14			
SR4	4/30/2017 18:57	0.18				SR12	4/30/2017 18:57	0.11			
SR4	4/30/2017 19:17	0.19				SR12	4/30/2017 19:17	0.15			
SR4	4/30/2017 19:37	0.18				SR12	4/30/2017 19:37	0.15			
SR4	4/30/2017 19:57	0.15				SR12	4/30/2017 19:57	0.14			
SR4	4/30/2017 20:17	0.19				SR12	4/30/2017 20:17	0.15			
SR4	4/30/2017 20:37	0.15				SR12	4/30/2017 20:37	0.12			
SR4	4/30/2017 20:57	0.19				SR12	4/30/2017 20:57	0.14			
SR4	4/30/2017 21:17	0.16				SR12	4/30/2017 21:17	0.13			
SR4	4/30/2017 21:37	0.18				SR12	4/30/2017 21:37	0.13			
SR4	4/30/2017 21:57	0.18				SR12	4/30/2017 21:57	0.13			
SR4	4/30/2017 22:17	0.17				SR12	4/30/2017 22:17	0.11			
SR4	4/30/2017 22:37	0.15				SR12	4/30/2017 22:37	0.11			
SR4	4/30/2017 22:57	0.19				SR12	4/30/2017 22:57	0.10			
SR4	4/30/2017 23:17	0.15				SR12	4/30/2017 23:17	0.11			
SR4	4/30/2017 23:37	0.19				SR12	4/30/2017 23:37	0.11			
SR4	4/30/2017 23:57	0.18				SR12	4/30/2017 23:57	0.12			

Remark: Fonts with underline: Action Level Exceedance

**Fonts in Bold with underline: Limit Level Exceedance**

Automatic Instrument calibration of NH<sub>3</sub>-N monitor was carried out during 5:57-6:37 at SR4 and SR12.

24-hr Water Quality Monitoring

Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)
SR4	5/1/2017 0:01	24.17	97.6	7.45	4.6	SR4	5/1/2017 6:01	24.03	98.1	7.49	4.8	SR4	5/1/2017 12:01	24.23	99.0	7.56	1.7	SR4	5/1/2017 18:01	25.18	94.7	7.23	1.1
SR4	5/1/2017 0:06	24.17	99.6	7.60	6.6	SR4	5/1/2017 6:06	24.03	98.1	7.49	6.5	SR4	5/1/2017 12:06	24.25	95.9	7.32	7.7	SR4	5/1/2017 18:06	25.34	95.2	7.27	4.0
SR4	5/1/2017 0:11	24.20	95.2	7.27	1.2	SR4	5/1/2017 6:11	24.03	94.6	7.22	6.7	SR4	5/1/2017 12:11	24.28	96.7	7.38	5.4	SR4	5/1/2017 18:11	25.35	98.4	7.51	1.6
SR4	5/1/2017 0:16	24.23	95.6	7.30	2.3	SR4	5/1/2017 6:16	24.04	98.0	7.48	1.2	SR4	5/1/2017 12:16	24.24	96.3	7.35	4.8	SR4	5/1/2017 18:16	24.95	94.5	7.21	4.6
SR4	5/1/2017 0:21	24.23	99.8	7.62	7.4	SR4	5/1/2017 6:21	24.04	97.5	7.44	7.3	SR4	5/1/2017 12:21	24.22	94.6	7.22	4.0	SR4	5/1/2017 18:21	24.80	100.2	7.65	5.0
SR4	5/1/2017 0:26	24.23	98.0	7.48	2.9	SR4	5/1/2017 6:26	24.04	96.2	7.34	1.1	SR4	5/1/2017 12:26	24.18	98.6	7.53	3.5	SR4	5/1/2017 18:26	24.79	99.8	7.62	2.6
SR4	5/1/2017 0:31	24.22	99.4	7.59	4.2	SR4	5/1/2017 6:31	24.02	94.5	7.21	4.2	SR4	5/1/2017 12:31	24.19	97.7	7.46	5.1	SR4	5/1/2017 18:31	24.84	99.0	7.25	5.5
SR4	5/1/2017 0:36	24.20	94.6	7.22	1.7	SR4	5/1/2017 6:36	24.01	97.7	7.46	6.1	SR4	5/1/2017 12:36	24.17	95.1	7.26	2.7	SR4	5/1/2017 18:36	24.95	96.8	7.39	3.2
SR4	5/1/2017 0:41	24.19	95.4	7.28	2.9	SR4	5/1/2017 6:41	24.01	98.1	7.49	1.5	SR4	5/1/2017 12:41	24.18	100.0	7.63	6.1	SR4	5/1/2017 18:41	25.16	99.4	7.59	6.7
SR4	5/1/2017 0:46	24.18	95.4	7.28	2.6	SR4	5/1/2017 6:46	24.00	96.5	7.37	3.0	SR4	5/1/2017 12:46	24.19	99.6	7.60	2.3	SR4	5/1/2017 18:46	25.10	97.6	7.45	6.0
SR4	5/1/2017 0:51	24.16	96.3	7.35	2.1	SR4	5/1/2017 6:51	24.01	99.6	7.60	7.1	SR4	5/1/2017 12:51	24.20	96.8	7.39	4.6	SR4	5/1/2017 18:51	25.04	96.5	7.37	6.0
SR4	5/1/2017 0:56	24.17	98.9	7.55	3.5	SR4	5/1/2017 6:56	24.00	97.3	7.43	3.7	SR4	5/1/2017 12:56	24.22	96.9	7.40	6.0	SR4	5/1/2017 18:56	24.98	99.2	7.57	1.3
SR4	5/1/2017 1:01	24.19	96.0	7.33	4.6	SR4	5/1/2017 7:01	23.99	97.3	7.43	5.1	SR4	5/1/2017 13:01	24.24	98.5	7.52	5.4	SR4	5/1/2017 19:01	25.00	99.7	7.61	7.6
SR4	5/1/2017 1:06	24.22	99.4	7.59	4.9	SR4	5/1/2017 7:06	23.99	96.2	7.34	4.9	SR4	5/1/2017 13:06	24.27	97.7	7.46	4.4	SR4	5/1/2017 19:06	24.98	98.0	7.48	4.1
SR4	5/1/2017 1:11	24.23	98.9	7.55	1.1	SR4	5/1/2017 7:11	23.98	98.9	7.55	2.2	SR4	5/1/2017 13:11	24.32	100.1	7.64	1.4	SR4	5/1/2017 19:11	24.85	97.6	7.45	5.2
SR4	5/1/2017 1:16	24.24	99.8	7.62	4.9	SR4	5/1/2017 7:16	23.98	94.6	7.22	5.9	SR4	5/1/2017 13:16	24.37	99.3	7.58	6.5	SR4	5/1/2017 19:16	24.78	99.0	7.56	5.4
SR4	5/1/2017 1:21	24.25	98.4	7.51	1.5	SR4	5/1/2017 7:21	23.99	98.5	7.52	3.6	SR4	5/1/2017 13:21	24.34	100.0	7.63	2.1	SR4	5/1/2017 19:21	24.74	98.3	7.50	2.1
SR4	5/1/2017 1:26	24.25	99.7	7.61	3.5	SR4	5/1/2017 7:26	24.01	97.9	7.47	5.3	SR4	5/1/2017 13:26	24.42	96.4	7.36	5.3	SR4	5/1/2017 19:26	24.74	99.0	7.56	3.0
SR4	5/1/2017 1:31	24.23	95.4	7.28	5.4	SR4	5/1/2017 7:31	24.03	100.0	7.63	2.1	SR4	5/1/2017 13:31	24.52	96.2	7.34	3.9	SR4	5/1/2017 19:31	24.69	97.2	7.42	1.2
SR4	5/1/2017 1:36	24.23	98.1	7.49	4.8	SR4	5/1/2017 7:36	24.03	96.0	7.33	7.3	SR4	5/1/2017 13:36	24.59	97.7	7.46	5.6	SR4	5/1/2017 19:36	24.72	99.2	7.57	2.4
SR4	5/1/2017 1:41	24.22	94.5	7.21	4.6	SR4	5/1/2017 7:41	24.01	97.9	7.47	7.4	SR4	5/1/2017 13:41	24.58	96.5	7.37	3.1	SR4	5/1/2017 19:41	24.71	95.9	7.32	6.2
SR4	5/1/2017 1:46	24.21	96.4	7.36	1.2	SR4	5/1/2017 7:46	23.99	95.9	7.32	2.8	SR4	5/1/2017 13:46	24.64	99.6	7.60	6.7	SR4	5/1/2017 19:46	24.70	95.2	7.27	5.4
SR4	5/1/2017 1:51	24.19	99.8	7.62	1.8	SR4	5/1/2017 7:51	23.98	95.0	7.25	5.3	SR4	5/1/2017 13:51	24.61	98.9	7.55	1.8	SR4	5/1/2017 19:51	24.74	95.8	7.31	3.2
SR4	5/1/2017 1:56	24.15	99.2	7.57	3.9	SR4	5/1/2017 7:56	23.98	96.3	7.35	4.1	SR4	5/1/2017 13:56	24.63	96.9	7.40	1.4	SR4	5/1/2017 19:56	24.71	97.7	7.46	7.0
SR4	5/1/2017 2:01	24.11	99.0	7.56	6.4	SR4	5/1/2017 8:01	23.98	95.0	7.25	5.0	SR4	5/1/2017 14:01	24.60	97.7	7.46	6.3	SR4	5/1/2017 20:01	24.70	98.1	7.49	4.4
SR4	5/1/2017 2:06	24.09	95.0	7.25	1.6	SR4	5/1/2017 8:06	23.99	99.4	7.59	6.9	SR4	5/1/2017 14:06	24.51	97.7	7.46	6.7	SR4	5/1/2017 20:06	24.70	98.1	7.49	2.6
SR4	5/1/2017 2:11	24.08	96.2	7.34	5.9	SR4	5/1/2017 8:11	23.99	96.2	7.34	6.8	SR4	5/1/2017 14:11	24.58	96.2	7.34	6.8	SR4	5/1/2017 20:11	24.77	96.2	7.34	3.1
SR4	5/1/2017 2:16	24.07	98.8	7.54	6.8	SR4	5/1/2017 8:16	24.01	96.2	7.34	6.9	SR4	5/1/2017 14:16	24.58	98.5	7.52	7.0	SR4	5/1/2017 20:16	24.77	97.3	7.43	3.3
SR4	5/1/2017 2:21	24.07	94.7	7.23	7.2	SR4	5/1/2017 8:21	24.03	99.4	7.59	2.0	SR4	5/1/2017 14:21	24.67	97.5	7.44	7.4	SR4	5/1/2017 20:21	24.74	98.8	7.54	5.9
SR4	5/1/2017 2:26	24.05	96.3	7.35	1.2	SR4	5/1/2017 8:26	24.03	96.3	7.35	2.9	SR4	5/1/2017 14:26	24.64	96.3	7.35	2.7	SR4	5/1/2017 20:26	24.73	94.5	7.21	4.0
SR4	5/1/2017 2:31	24.05	94.6	7.22	2.1	SR4	5/1/2017 8:31	24.04	99.7	7.61	3.1	SR4	5/1/2017 14:31	24.85	100.2	7.65	5.7	SR4	5/1/2017 20:31	24.73	94.5	7.21	1.4
SR4	5/1/2017 2:36	24.04	99.3	7.58	1.6	SR4	5/1/2017 8:36	24.06	95.5	7.29	6.7	SR4	5/1/2017 14:36	24.93	96.5	7.37	4.9	SR4	5/1/2017 20:36	24.79	97.9	7.47	1.9
SR4	5/1/2017 2:41	24.03	96.5	7.37	4.7	SR4	5/1/2017 8:41	24.07	99.3	7.58	2.8	SR4	5/1/2017 14:41	25.01	99.7	7.61	6.9	SR4	5/1/2017 20:41	24.84	96.7	7.38	4.9
SR4	5/1/2017 2:46	24.03	100.2	7.65	5.5	SR4	5/1/2017 8:46	24.07	97.1	7.41	2.4	SR4	5/1/2017 14:46	25.05	96.2	7.34	7.3	SR4	5/1/2017 20:46	24.79	98.3	7.50	1.1
SR4	5/1/2017 2:51	24.05	95.2	7.27	2.5	SR4	5/1/2017 8:51	24.08	97.2	7.42	2.1	SR4	5/1/2017 14:51	24.99	95.4	7.28	2.3	SR4	5/1/2017 20:51	24.79	95.0	7.25	7.4
SR4	5/1/2017 2:56	24.06	98.1	7.49	2.8	SR4	5/1/2017 8:56	24.14	98.4	7.51	1.4	SR4	5/1/2017 14:56	24.92	98.5	7.52	4.9	SR4	5/1/2017 20:56	24.79	93.3	7.18	5.7
SR4	5/1/2017 3:01	24.07	99.6	7.60	2.2	SR4	5/1/2017 9:01	24.13	98.1	7.49	7.6	SR4	5/1/2017 15:01	24.90	98.9	7.55	1.6	SR4	5/1/2017 21:01	24.86	94.8	7.29	5.3
SR4	5/1/2017 3:06	24.07	98.3	7.50	3.7	SR4	5/1/2017 9:06	24.16	98.6	7.53	3.9	SR4	5/1/2017 15:06	24.93	96.8	7.39	4.9	SR4	5/1/2017 21:06	24.85	92.2	7.09	7.7
SR4	5/1/2017 3:11	24.05	97.5	7.44	5.7	SR4	5/1/2017 9:11	24.19	99.2	7.57	2.9	SR4	5/1/2017 15:11	24.90	98.8	7.54	2.1	SR4	5/1/2017 21:11	24.86	93.9	7.22	6.3
SR4	5/1/2017 3:16	24.05	97.5	7.44	1.9	SR4	5/1/2017 9:16	24.22	95.6	7.30	6.8	SR4	5/1/2017 15:16	24.83	96.7	7.38	6.4	SR4	5/1/2017 21:16	24.83	92.3	7.10	6.7
SR4	5/1/2017 3:21	24.04	98.1	7.49	2.2	SR4	5/1/2017 9:21	24.25	96.8	7.39	1.4	SR4	5/1/2017 15:21	24.76	97.1	7.41	2.3	SR4	5/1/2017 21:21	24.89	94.0	7.23	4.5
SR4	5/1/2017 3:26	24.03	99.6	7.60	7.3	SR4	5/1/2017 9:26	24.28	94.8	7.24	5.9	SR4	5/1/2017 15:26	24.72	98.4	7.51	5.1	SR4	5/1/2017 21:26	24.92	93.9	7.22	4.9
SR4	5/1/2017 3:31	24.02	97.9	7.47	6.3	SR4	5/1/2017 9:31	24.31	98.1	7.49	1.8	SR4	5/1/2017 15:31	24.68	96.4	7.36	6.8	SR4	5/1/2017 21:31	24.93	93.2	7.17	3.7
SR4	5/1/2017 3:36	24.01	99.7	7.61	5.7	SR4	5/1/2017 9:36	24.33	100.1	7.64	1.7	SR4	5/1/2017 15:36	24.68	95.2	7.27	1.3	SR4	5/1/2017 21:36	24.94	94.3	7.25	4.4
SR4	5/1/2017 3:41	24.02	99.4	7.59	4.8	SR4	5/1/2017 9:41	24.31	95.0	7.25	2.7	SR4	5/1/2017 15:41	24.67	98.6	7.53	1.7	SR4	5/1/2017 21:41	24.93	92.4	7.11	4.0
SR4	5/1/2017 3:46	24.01	99.4	7.59	1.9	SR4	5/1/2017 9:46	24.30	96.0	7.33	5.3	SR4	5/1/2017 15:46	24.65	95.9	7.32	3.9	SR4	5/1/2017 21:46	24.91	92.2	7.09	6.0
SR4	5/1/2017 3:51	24.01	94.6	7.22	7.6	SR4	5/1/2017 9:51	24.32	97.9	7.47	1.3	SR4	5/1/2017 15:51	24.63	99.2	7.57	3.0	SR4	5/1/2017 21:51	24.88	94.1	7.24	7.6
SR4	5/1/2017 3:56	24.01	97.1	7.41	7.7	SR4	5/1/2017 9:56	24.33	95.6	7.30	1.1	SR4	5/1/2017 15:56	24.62	96.0	7.33	4.5	SR4	5/1/2017 21:56	24.91	94.9	7.30	9.3
SR4	5/1/2017 4:01	24.01	99.2	7																			

24-hr Water Quality Monitoring

Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)
SR5	5/1/2017 0:00	25.62	101.4	7.57	3.7	SR5	5/1/2017 6:00	24.99	99.6	7.43	5.6	SR5	5/1/2017 12:00	25.52	94.0	7.07	5.3	SR5	5/1/2017 18:00	25.24	96.7	7.27	6.2
SR5	5/1/2017 0:05	25.64	99.6	7.43	6.4	SR5	5/1/2017 6:05	24.97	100.4	7.49	2.8	SR5	5/1/2017 12:05	25.44	95.6	7.19	7.5	SR5	5/1/2017 18:05	25.22	93.4	7.02	7.5
SR5	5/1/2017 0:10	25.65	98.8	7.37	3.1	SR5	5/1/2017 6:10	25.03	99.0	7.39	4.2	SR5	5/1/2017 12:10	25.42	95.9	7.21	7.6	SR5	5/1/2017 18:10	25.20	94.3	7.09	7.3
SR5	5/1/2017 0:15	25.67	98.9	7.38	4.8	SR5	5/1/2017 6:15	25.08	100.2	7.48	4.0	SR5	5/1/2017 12:15	25.38	94.6	7.11	8.7	SR5	5/1/2017 18:15	25.19	94.2	7.08	6.1
SR5	5/1/2017 0:20	25.63	100.1	7.47	4.2	SR5	5/1/2017 6:20	25.02	97.6	7.28	6.1	SR5	5/1/2017 12:20	25.39	93.8	7.05	4.9	SR5	5/1/2017 18:20	25.16	93.2	7.01	5.6
SR5	5/1/2017 0:25	25.63	96.9	7.23	6.7	SR5	5/1/2017 6:25	25.12	98.5	7.35	3.3	SR5	5/1/2017 12:25	25.41	94.7	7.12	6.5	SR5	5/1/2017 18:25	25.12	96.3	7.24	4.8
SR5	5/1/2017 0:30	25.64	99.2	7.40	2.8	SR5	5/1/2017 6:30	25.03	99.8	7.45	6.5	SR5	5/1/2017 12:30	25.41	96.2	7.23	5.2	SR5	5/1/2017 18:30	25.09	94.7	7.12	5.6
SR5	5/1/2017 0:35	25.56	101.7	7.59	2.9	SR5	5/1/2017 6:35	25.05	99.0	7.39	5.3	SR5	5/1/2017 12:35	25.42	96.6	7.26	6.1	SR5	5/1/2017 18:35	25.07	93.8	7.05	6.1
SR5	5/1/2017 0:40	25.66	100.0	7.46	5.7	SR5	5/1/2017 6:40	25.16	99.3	7.41	5.8	SR5	5/1/2017 12:40	25.45	95.4	7.17	8.1	SR5	5/1/2017 18:40	25.05	95.5	7.18	5.5
SR5	5/1/2017 0:45	25.66	99.0	7.39	4.3	SR5	5/1/2017 6:45	25.21	101.3	7.56	5.4	SR5	5/1/2017 12:45	25.49	93.2	7.01	7.1	SR5	5/1/2017 18:45	25.02	96.0	7.22	5.1
SR5	5/1/2017 0:50	25.63	99.7	7.44	5.7	SR5	5/1/2017 6:50	25.14	98.5	7.35	5.7	SR5	5/1/2017 12:50	25.50	95.9	7.21	7.9	SR5	5/1/2017 18:50	24.97	94.6	7.11	6.3
SR5	5/1/2017 0:55	25.68	101.8	7.60	4.2	SR5	5/1/2017 6:55	25.22	98.6	7.36	2.6	SR5	5/1/2017 12:55	25.33	93.2	7.01	4.7	SR5	5/1/2017 18:55	24.96	94.3	7.09	6.2
SR5	5/1/2017 1:00	25.69	97.6	7.28	2.0	SR5	5/1/2017 7:00	25.22	98.2	7.33	2.5	SR5	5/1/2017 13:00	25.34	95.5	7.18	8.2	SR5	5/1/2017 19:00	25.03	95.9	7.21	6.4
SR5	5/1/2017 1:05	25.64	98.5	7.35	1.9	SR5	5/1/2017 7:05	25.30	98.1	7.32	4.7	SR5	5/1/2017 13:05	25.35	93.8	7.05	7.4	SR5	5/1/2017 19:05	25.05	93.4	7.02	5.9
SR5	5/1/2017 1:10	25.66	100.9	7.53	4.2	SR5	5/1/2017 7:10	25.25	97.0	7.24	3.7	SR5	5/1/2017 13:10	25.43	94.0	7.07	8.5	SR5	5/1/2017 19:10	25.03	94.0	7.07	6.6
SR5	5/1/2017 1:15	25.60	97.6	7.28	2.0	SR5	5/1/2017 7:15	25.25	98.8	7.37	5.9	SR5	5/1/2017 13:15	25.49	93.1	7.00	7.2	SR5	5/1/2017 19:15	25.01	95.9	7.21	7.1
SR5	5/1/2017 1:20	25.58	101.4	7.57	5.5	SR5	5/1/2017 7:20	25.25	99.7	7.44	5.7	SR5	5/1/2017 13:20	25.58	95.2	7.16	7.2	SR5	5/1/2017 19:20	25.04	94.7	7.12	5.8
SR5	5/1/2017 1:25	25.50	100.0	7.46	5.7	SR5	5/1/2017 7:25	25.26	99.7	7.44	6.4	SR5	5/1/2017 13:25	25.62	96.7	7.27	6.7	SR5	5/1/2017 19:25	25.03	92.8	6.98	5.7
SR5	5/1/2017 1:30	25.50	100.9	7.53	3.9	SR5	5/1/2017 7:30	25.26	98.9	7.38	2.9	SR5	5/1/2017 13:30	25.66	94.6	7.11	8.8	SR5	5/1/2017 19:30	25.08	92.8	6.98	5.3
SR5	5/1/2017 1:35	25.51	99.0	7.39	4.9	SR5	5/1/2017 7:35	25.38	98.5	7.35	3.2	SR5	5/1/2017 13:35	25.68	94.2	7.08	5.0	SR5	5/1/2017 19:35	25.06	93.4	7.02	5.0
SR5	5/1/2017 1:40	25.53	98.1	7.32	6.1	SR5	5/1/2017 7:40	25.31	100.6	7.51	5.3	SR5	5/1/2017 13:40	25.73	94.4	7.10	6.1	SR5	5/1/2017 19:40	25.07	96.4	7.25	5.4
SR5	5/1/2017 1:45	25.59	99.2	7.40	6.3	SR5	5/1/2017 7:45	25.30	100.4	7.49	5.2	SR5	5/1/2017 13:45	25.70	96.8	7.28	6.6	SR5	5/1/2017 19:45	25.04	93.1	7.00	6.8
SR5	5/1/2017 1:50	25.67	97.4	7.27	2.2	SR5	5/1/2017 7:50	25.26	97.8	7.30	2.0	SR5	5/1/2017 13:50	25.68	94.2	7.08	7.5	SR5	5/1/2017 19:50	25.05	95.0	7.14	5.5
SR5	5/1/2017 1:55	25.73	100.0	7.46	4.9	SR5	5/1/2017 7:55	25.22	101.6	7.58	2.1	SR5	5/1/2017 13:55	25.66	95.8	7.20	5.6	SR5	5/1/2017 19:55	25.02	92.8	6.98	5.2
SR5	5/1/2017 2:00	25.77	99.3	7.41	5.0	SR5	5/1/2017 8:00	25.25	98.4	7.34	4.8	SR5	5/1/2017 14:00	25.61	96.2	7.23	4.9	SR5	5/1/2017 20:00	25.04	93.4	7.02	7.8
SR5	5/1/2017 2:05	25.77	100.8	7.52	6.5	SR5	5/1/2017 8:05	25.28	101.6	7.58	3.0	SR5	5/1/2017 14:05	25.57	93.5	7.03	8.2	SR5	5/1/2017 20:05	25.00	93.6	7.04	8.0
SR5	5/1/2017 2:10	25.62	96.9	7.23	2.4	SR5	5/1/2017 8:10	25.24	99.2	7.40	5.2	SR5	5/1/2017 14:10	25.55	95.1	7.15	7.0	SR5	5/1/2017 20:10	25.02	93.0	6.99	6.8
SR5	5/1/2017 2:15	25.69	99.2	7.40	5.3	SR5	5/1/2017 8:15	25.17	97.2	7.25	3.0	SR5	5/1/2017 14:15	25.54	95.6	7.19	5.5	SR5	5/1/2017 20:15	25.02	96.8	7.28	5.5
SR5	5/1/2017 2:20	25.66	98.9	7.38	2.3	SR5	5/1/2017 8:20	25.21	97.7	7.29	2.8	SR5	5/1/2017 14:20	25.52	96.4	7.25	7.7	SR5	5/1/2017 20:20	25.02	96.0	7.22	8.5
SR5	5/1/2017 2:25	25.67	99.8	7.45	2.1	SR5	5/1/2017 8:25	25.25	101.4	7.57	3.3	SR5	5/1/2017 14:25	25.50	96.7	7.27	6.4	SR5	5/1/2017 20:25	25.03	96.8	7.28	4.7
SR5	5/1/2017 2:30	25.61	99.3	7.41	4.6	SR5	5/1/2017 8:30	25.28	98.9	7.38	5.2	SR5	5/1/2017 14:30	25.48	94.3	7.09	8.5	SR5	5/1/2017 20:30	25.01	95.4	7.17	6.8
SR5	5/1/2017 2:35	25.60	99.0	7.39	3.9	SR5	5/1/2017 8:35	25.26	98.6	7.36	6.5	SR5	5/1/2017 14:35	25.48	95.0	7.14	5.1	SR5	5/1/2017 20:35	24.98	96.4	7.25	8.5
SR5	5/1/2017 2:40	25.60	101.4	7.57	5.1	SR5	5/1/2017 8:40	25.24	99.6	7.43	6.1	SR5	5/1/2017 14:40	25.47	94.6	7.11	7.9	SR5	5/1/2017 20:40	24.99	96.4	7.25	7.7
SR5	5/1/2017 2:45	25.59	98.5	7.35	6.1	SR5	5/1/2017 8:45	25.25	101.0	7.54	3.4	SR5	5/1/2017 14:45	25.39	96.0	7.22	8.0	SR5	5/1/2017 20:45	24.98	96.8	7.28	6.1
SR5	5/1/2017 2:50	25.60	99.2	7.40	5.4	SR5	5/1/2017 8:50	25.26	101.6	7.58	6.8	SR5	5/1/2017 14:50	25.35	95.2	7.16	5.8	SR5	5/1/2017 20:50	24.99	96.0	7.22	6.2
SR5	5/1/2017 2:55	25.61	97.3	7.26	4.8	SR5	5/1/2017 8:55	25.27	99.7	7.44	3.9	SR5	5/1/2017 14:55	25.44	96.7	7.27	6.2	SR5	5/1/2017 20:55	25.04	93.2	7.01	8.3
SR5	5/1/2017 3:00	25.66	98.9	7.38	2.6	SR5	5/1/2017 9:00	25.29	99.6	7.43	6.3	SR5	5/1/2017 15:00	25.28	93.1	7.00	7.0	SR5	5/1/2017 21:00	25.08	95.1	7.15	8.5
SR5	5/1/2017 3:05	25.72	100.5	7.50	4.1	SR5	5/1/2017 9:05	25.30	98.6	7.36	3.0	SR5	5/1/2017 15:05	25.20	96.3	7.24	8.6	SR5	5/1/2017 21:05	25.04	95.0	7.14	6.7
SR5	5/1/2017 3:10	25.73	98.9	7.38	5.9	SR5	5/1/2017 9:10	25.33	99.8	7.45	4.6	SR5	5/1/2017 15:10	25.33	96.7	7.27	8.9	SR5	5/1/2017 21:10	25.04	95.4	7.17	4.8
SR5	5/1/2017 3:15	25.73	98.2	7.33	4.8	SR5	5/1/2017 9:15	25.34	97.8	7.30	5.8	SR5	5/1/2017 15:15	25.34	95.9	7.21	6.7	SR5	5/1/2017 21:15	25.05	95.6	7.19	6.8
SR5	5/1/2017 3:20	25.73	100.0	7.46	6.6	SR5	5/1/2017 9:20	25.36	98.1	7.32	4.3	SR5	5/1/2017 15:20	25.37	95.8	7.20	5.2	SR5	5/1/2017 21:20	25.06	94.6	7.11	6.9
SR5	5/1/2017 3:25	25.75	99.7	7.44	2.1	SR5	5/1/2017 9:25	25.35	99.4	7.42	4.5	SR5	5/1/2017 15:25	25.31	95.2	7.16	6.6	SR5	5/1/2017 21:25	25.14	93.8	7.05	7.5
SR5	5/1/2017 3:30	25.81	99.2	7.40	6.5	SR5	5/1/2017 9:30	25.33	98.4	7.34	3.0	SR5	5/1/2017 15:30	25.30	93.6	7.04	8.9	SR5	5/1/2017 21:30	25.09	96.8	7.28	6.6
SR5	5/1/2017 3:35	25.80	99.6	7.43	6.8	SR5	5/1/2017 9:35	25.31	100.5	7.50	3.5	SR5	5/1/2017 15:35	25.31	95.4	7.17	5.6	SR5	5/1/2017 21:35	25.08	95.1	7.15	5.6
SR5	5/1/2017 3:40	25.85	97.6	7.28	5.4	SR5	5/1/2017 9:40	25.32	101.4	7.57	5.1	SR5	5/1/2017 15:40	25.24	94.0	7.07	6.7	SR5	5/1/2017 21:40	25.13	94.0	7.07	4.8
SR5	5/1/2017 3:45	25.97	96.9	7.23	2.0	SR5	5/1/2017 9:45	25.34	99.8	7.45	2.1	SR5	5/1/2017 15:45	25.30	95.9	7.21	7.0	SR5	5/1/2017 21:45	25.09	93.9	7.06	7.5
SR5	5/1/2017 3:50	26.05	97.6	7.28	5.8	SR5	5/1/2017 9:50	25.34	99.0	7.39	6.0	SR5	5/1/2017 15:50	25.33	95.0	7.14	6.1	SR5	5/1/2017 21:50	25.14	95.2	7.16	7.0
SR5	5/1/2017 3:55	26.00	100.6	7.51	6.2	SR5	5/1/2017 9:55	25.34	98.5	7.35	3.6	SR5	5/1/2017 15:55	25.31	96.7	7.27	5.5	SR5	5/1/2017 21:55	25.13	93.1	7.00	4.8
SR5	5/1/2017 4:00	2																					

24-hr Water Quality Monitoring

Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)
SR12	5/1/2017 0:01	24.23	96.6	7.32	7.3	SR12	5/1/2017 6:01	23.95	96.2	7.29	9.1	SR12	5/1/2017 12:01	24.06	93.6	7.09	9.1	SR12	5/1/2017 18:01	24.50	94.1	7.13	6.7
SR12	5/1/2017 0:06	24.26	95.4	7.23	6.4	SR12	5/1/2017 6:06	23.96	94.1	7.13	7.0	SR12	5/1/2017 12:06	24.13	94.5	7.16	6.1	SR12	5/1/2017 18:06	24.52	94.1	7.13	6.4
SR12	5/1/2017 0:11	24.27	95.7	7.25	5.9	SR12	5/1/2017 6:11	23.98	97.2	7.36	5.9	SR12	5/1/2017 12:11	24.12	97.0	7.35	9.2	SR12	5/1/2017 18:11	24.54	97.2	7.36	8.2
SR12	5/1/2017 0:16	24.27	93.6	7.09	6.5	SR12	5/1/2017 6:16	24.02	96.4	7.30	7.9	SR12	5/1/2017 12:16	24.17	93.9	7.11	6.7	SR12	5/1/2017 18:16	24.78	94.2	7.14	7.9
SR12	5/1/2017 0:21	24.27	96.1	7.28	9.3	SR12	5/1/2017 6:21	24.04	93.7	7.10	6.8	SR12	5/1/2017 12:21	24.16	97.3	7.37	6.6	SR12	5/1/2017 18:21	24.90	94.9	7.19	8.9
SR12	5/1/2017 0:26	24.22	95.8	7.26	7.8	SR12	5/1/2017 6:26	24.05	97.4	7.38	6.5	SR12	5/1/2017 12:26	24.20	94.5	7.16	5.9	SR12	5/1/2017 18:26	25.12	97.4	7.38	6.7
SR12	5/1/2017 0:31	24.12	94.8	7.18	8.1	SR12	5/1/2017 6:31	24.07	96.2	7.29	8.8	SR12	5/1/2017 12:31	24.14	96.5	7.31	8.5	SR12	5/1/2017 18:31	25.04	97.4	7.38	9.1
SR12	5/1/2017 0:36	24.22	97.2	7.36	9.0	SR12	5/1/2017 6:36	24.08	93.5	7.08	6.4	SR12	5/1/2017 12:36	24.11	97.2	7.36	7.1	SR12	5/1/2017 18:36	25.11	96.1	7.28	8.6
SR12	5/1/2017 0:41	24.26	96.9	7.34	6.5	SR12	5/1/2017 6:41	24.07	94.8	7.18	7.2	SR12	5/1/2017 12:41	24.09	97.0	7.35	8.1	SR12	5/1/2017 18:41	25.13	97.4	7.38	7.8
SR12	5/1/2017 0:46	24.28	94.5	7.16	6.0	SR12	5/1/2017 6:46	24.07	95.0	7.20	8.0	SR12	5/1/2017 12:46	24.10	95.8	7.26	7.7	SR12	5/1/2017 18:46	24.95	95.0	7.20	8.2
SR12	5/1/2017 0:51	24.23	93.6	7.09	7.4	SR12	5/1/2017 6:51	24.08	94.2	7.14	6.7	SR12	5/1/2017 12:51	24.11	97.5	7.39	6.4	SR12	5/1/2017 18:51	24.78	95.3	7.22	8.2
SR12	5/1/2017 0:56	24.13	96.9	7.34	6.9	SR12	5/1/2017 6:56	24.09	95.4	7.23	6.4	SR12	5/1/2017 12:56	24.15	96.1	7.28	7.7	SR12	5/1/2017 18:56	24.80	96.6	7.32	6.5
SR12	5/1/2017 1:01	24.10	96.1	7.28	6.4	SR12	5/1/2017 7:01	24.05	96.2	7.29	7.5	SR12	5/1/2017 13:01	24.17	93.5	7.08	7.1	SR12	5/1/2017 19:01	24.90	97.2	7.36	8.8
SR12	5/1/2017 1:06	24.11	94.4	7.15	7.2	SR12	5/1/2017 7:06	23.93	96.0	7.27	8.3	SR12	5/1/2017 13:06	24.22	94.6	7.17	6.1	SR12	5/1/2017 19:06	25.02	95.6	7.24	7.3
SR12	5/1/2017 1:11	24.11	97.2	7.36	6.6	SR12	5/1/2017 7:11	23.94	97.3	7.37	8.6	SR12	5/1/2017 13:11	24.24	94.2	7.14	8.7	SR12	5/1/2017 19:11	24.97	97.2	7.36	8.8
SR12	5/1/2017 1:16	24.15	95.6	7.24	6.4	SR12	5/1/2017 7:16	23.95	95.2	7.21	8.3	SR12	5/1/2017 13:16	24.20	97.2	7.36	8.2	SR12	5/1/2017 19:16	24.94	97.3	7.37	5.8
SR12	5/1/2017 1:21	24.10	97.4	7.38	7.5	SR12	5/1/2017 7:21	23.95	96.2	7.29	6.1	SR12	5/1/2017 13:21	24.21	94.6	7.17	8.5	SR12	5/1/2017 19:21	24.86	95.3	7.22	7.1
SR12	5/1/2017 1:26	24.13	97.3	7.37	8.9	SR12	5/1/2017 7:26	23.96	95.4	7.23	8.8	SR12	5/1/2017 13:26	24.28	94.2	7.14	7.6	SR12	5/1/2017 19:26	24.85	93.9	7.11	9.1
SR12	5/1/2017 1:31	24.18	93.6	7.09	8.4	SR12	5/1/2017 7:31	23.98	96.9	7.34	8.0	SR12	5/1/2017 13:31	24.26	96.5	7.31	9.1	SR12	5/1/2017 19:31	24.85	93.6	7.09	5.9
SR12	5/1/2017 1:36	24.21	94.0	7.12	7.2	SR12	5/1/2017 7:36	23.99	94.9	7.19	6.3	SR12	5/1/2017 13:36	24.30	93.7	7.10	7.5	SR12	5/1/2017 19:36	24.86	91.7	7.00	6.9
SR12	5/1/2017 1:41	24.20	93.9	7.11	8.0	SR12	5/1/2017 7:41	23.99	97.5	7.39	6.4	SR12	5/1/2017 13:41	24.32	93.9	7.11	9.3	SR12	5/1/2017 19:41	24.74	90.1	6.88	7.5
SR12	5/1/2017 1:46	24.19	97.5	7.39	7.7	SR12	5/1/2017 7:46	23.98	94.9	7.19	6.2	SR12	5/1/2017 13:46	24.40	93.6	7.09	8.7	SR12	5/1/2017 19:46	24.70	91.2	6.96	4.9
SR12	5/1/2017 1:51	24.15	94.9	7.19	6.1	SR12	5/1/2017 7:51	23.99	95.4	7.23	8.4	SR12	5/1/2017 13:51	24.38	97.2	7.36	6.9	SR12	5/1/2017 19:51	24.66	90.3	6.89	7.8
SR12	5/1/2017 1:56	24.14	96.8	7.33	7.3	SR12	5/1/2017 7:56	24.00	94.9	7.19	8.2	SR12	5/1/2017 13:56	24.36	95.8	7.26	8.3	SR12	5/1/2017 19:56	24.66	93.1	7.11	7.0
SR12	5/1/2017 2:01	24.10	96.5	7.31	9.0	SR12	5/1/2017 8:01	24.02	93.7	7.10	7.1	SR12	5/1/2017 14:01	24.37	96.9	7.34	8.8	SR12	5/1/2017 20:01	24.73	90.3	6.89	7.8
SR12	5/1/2017 2:06	24.11	95.0	7.20	6.1	SR12	5/1/2017 8:06	24.04	96.6	7.32	5.8	SR12	5/1/2017 14:06	24.38	93.6	7.09	6.2	SR12	5/1/2017 20:06	24.74	90.4	6.90	7.0
SR12	5/1/2017 2:11	24.11	95.6	7.24	6.4	SR12	5/1/2017 8:11	24.07	97.3	7.37	7.9	SR12	5/1/2017 14:11	24.36	96.9	7.34	8.7	SR12	5/1/2017 20:11	24.71	93.1	7.11	6.1
SR12	5/1/2017 2:16	24.12	97.0	7.35	6.0	SR12	5/1/2017 8:16	24.08	95.6	7.24	8.8	SR12	5/1/2017 14:16	24.36	96.9	7.34	9.2	SR12	5/1/2017 20:16	24.67	92.5	7.06	5.8
SR12	5/1/2017 2:21	24.11	94.2	7.14	7.7	SR12	5/1/2017 8:21	24.08	96.8	7.33	8.2	SR12	5/1/2017 14:21	24.32	93.5	7.08	5.8	SR12	5/1/2017 20:21	24.74	91.2	6.96	7.1
SR12	5/1/2017 2:26	24.11	93.9	7.11	8.0	SR12	5/1/2017 8:26	24.07	96.0	7.27	5.8	SR12	5/1/2017 14:26	24.34	94.5	7.16	7.2	SR12	5/1/2017 20:26	24.79	91.7	7.00	6.1
SR12	5/1/2017 2:31	24.12	95.4	7.23	8.3	SR12	5/1/2017 8:31	24.07	94.9	7.19	6.4	SR12	5/1/2017 14:31	24.35	93.6	7.09	6.7	SR12	5/1/2017 20:31	24.84	92.2	7.04	7.8
SR12	5/1/2017 2:36	24.12	94.1	7.13	6.0	SR12	5/1/2017 8:36	24.07	96.5	7.31	6.8	SR12	5/1/2017 14:36	24.39	93.5	7.08	7.6	SR12	5/1/2017 20:36	24.84	91.7	7.00	7.4
SR12	5/1/2017 2:41	24.11	95.6	7.24	6.4	SR12	5/1/2017 8:41	24.08	97.2	7.36	7.4	SR12	5/1/2017 14:41	24.38	96.9	7.34	8.2	SR12	5/1/2017 20:41	24.81	92.0	7.02	6.5
SR12	5/1/2017 2:46	24.12	95.2	7.21	7.7	SR12	5/1/2017 8:46	24.10	94.0	7.12	6.6	SR12	5/1/2017 14:46	24.37	97.0	7.35	6.3	SR12	5/1/2017 20:46	24.73	90.1	6.88	7.6
SR12	5/1/2017 2:51	24.12	95.7	7.25	9.1	SR12	5/1/2017 8:51	24.09	95.2	7.21	7.5	SR12	5/1/2017 14:51	24.39	97.4	7.38	5.9	SR12	5/1/2017 20:51	24.68	91.3	6.97	6.1
SR12	5/1/2017 2:56	24.13	93.9	7.11	7.5	SR12	5/1/2017 8:56	24.11	96.6	7.32	8.2	SR12	5/1/2017 14:56	24.49	97.5	7.39	6.4	SR12	5/1/2017 20:56	24.92	92.1	7.03	5.5
SR12	5/1/2017 3:01	24.12	95.4	7.23	8.6	SR12	5/1/2017 9:01	24.12	93.5	7.08	8.7	SR12	5/1/2017 15:01	24.53	96.6	7.32	7.1	SR12	5/1/2017 21:01	25.13	90.5	6.91	7.9
SR12	5/1/2017 3:06	24.12	94.0	7.12	8.2	SR12	5/1/2017 9:06	24.11	94.5	7.16	8.6	SR12	5/1/2017 15:06	24.52	95.7	7.25	7.9	SR12	5/1/2017 21:06	24.98	92.0	7.02	6.4
SR12	5/1/2017 3:11	24.12	97.0	7.35	7.4	SR12	5/1/2017 9:11	24.12	96.2	7.29	7.7	SR12	5/1/2017 15:11	24.44	96.6	7.32	8.1	SR12	5/1/2017 21:11	24.87	90.4	6.90	8.0
SR12	5/1/2017 3:16	24.13	94.8	7.18	6.3	SR12	5/1/2017 9:16	24.11	95.0	7.20	7.0	SR12	5/1/2017 15:16	24.63	97.3	7.37	9.1	SR12	5/1/2017 21:16	24.90	91.4	6.98	7.9
SR12	5/1/2017 3:21	24.13	97.0	7.35	9.2	SR12	5/1/2017 9:21	24.08	95.3	7.22	7.0	SR12	5/1/2017 15:21	24.73	94.4	7.15	8.0	SR12	5/1/2017 21:21	24.95	91.7	7.00	4.5
SR12	5/1/2017 3:26	24.13	96.9	7.34	5.9	SR12	5/1/2017 9:26	24.10	94.9	7.19	7.1	SR12	5/1/2017 15:26	25.00	97.3	7.37	6.3	SR12	5/1/2017 21:26	24.93	91.6	6.99	4.8
SR12	5/1/2017 3:31	24.13	94.4	7.15	9.0	SR12	5/1/2017 9:31	24.08	96.1	7.28	8.9	SR12	5/1/2017 15:31	25.23	93.5	7.08	8.7	SR12	5/1/2017 21:31	24.90	91.8	7.01	4.9
SR12	5/1/2017 3:36	24.13	96.1	7.28	6.0	SR12	5/1/2017 9:36	24.12	96.8	7.33	6.7	SR12	5/1/2017 15:36	25.16	96.5	7.31	7.5	SR12	5/1/2017 21:36	24.89	92.2	7.04	4.8
SR12	5/1/2017 3:41	24.12	97.4	7.38	9.0	SR12	5/1/2017 9:41	24.08	97.2	7.36	8.6	SR12	5/1/2017 15:41	25.14	96.4	7.30	9.2	SR12	5/1/2017 21:41	24.89	92.2	7.04	7.7
SR12	5/1/2017 3:46	24.13	93.5	7.08	6.7	SR12	5/1/2017 9:46	24.05	95.2	7.21	9.3	SR12	5/1/2017 15:46	25.21	96.4	7.30	8.1	SR12	5/1/2017 21:46	24.87	93.1	7.11	5.9
SR12	5/1/2017 3:51	24.13	97.4	7.38	6.9	SR12	5/1/2017 9:51	24.08	94.2	7.14	6.5	SR12	5/1/2017 15:51	25.17	95.0	7.20	8.0	SR12	5/1/2017 21:51	24.85	92.1	7.03	5.5
SR12	5/1/2017 3:56	24.12	93.5	7.08	6.3	SR12	5/1/2017 9:56	24.															

24-hr Water Quality Monitoring

Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)
SR13	5/1/2017 0:00	24.32	99.3	7.52	5.7	SR13	5/1/2017 6:00	23.89	95.7	7.25	5.9	SR13	5/1/2017 12:00	24.24	96.8	7.33	1.9	SR13	5/1/2017 18:00	24.70	95.7	7.25	2.1
SR13	5/1/2017 0:05	24.28	98.2	7.44	3.3	SR13	5/1/2017 6:05	23.92	96.2	7.29	1.8	SR13	5/1/2017 12:05	24.30	98.5	7.46	4.1	SR13	5/1/2017 18:05	24.67	96.8	7.33	1.6
SR13	5/1/2017 0:10	24.25	97.5	7.39	4.8	SR13	5/1/2017 6:10	23.92	98.1	7.43	5.8	SR13	5/1/2017 12:10	24.29	98.2	7.44	1.9	SR13	5/1/2017 18:10	24.63	96.9	7.34	2.2
SR13	5/1/2017 0:15	24.26	95.4	7.23	3.3	SR13	5/1/2017 6:15	23.91	99.3	7.52	2.1	SR13	5/1/2017 12:15	24.21	96.9	7.34	2.9	SR13	5/1/2017 18:15	24.65	98.6	7.47	3.4
SR13	5/1/2017 0:20	24.23	97.2	7.36	4.1	SR13	5/1/2017 6:20	23.92	98.3	7.45	4.1	SR13	5/1/2017 12:20	24.20	96.9	7.34	2.8	SR13	5/1/2017 18:20	24.85	97.8	7.41	3.1
SR13	5/1/2017 0:25	24.27	97.4	7.38	1.3	SR13	5/1/2017 6:25	23.91	98.5	7.46	1.3	SR13	5/1/2017 12:25	24.27	97.9	7.42	3.6	SR13	5/1/2017 18:25	25.25	95.7	7.25	1.7
SR13	5/1/2017 0:30	24.27	96.1	7.28	2.7	SR13	5/1/2017 6:30	23.93	96.4	7.30	2.7	SR13	5/1/2017 12:30	24.20	96.6	7.32	4.6	SR13	5/1/2017 18:30	25.16	98.1	7.43	2.6
SR13	5/1/2017 0:35	24.27	97.2	7.36	5.7	SR13	5/1/2017 6:35	23.94	97.4	7.38	2.4	SR13	5/1/2017 12:35	24.28	96.0	7.27	1.7	SR13	5/1/2017 18:35	25.07	96.9	7.34	5.1
SR13	5/1/2017 0:40	24.22	96.4	7.30	5.3	SR13	5/1/2017 6:40	23.95	98.1	7.43	2.0	SR13	5/1/2017 12:40	24.27	97.9	7.42	1.4	SR13	5/1/2017 18:40	25.06	96.8	7.33	4.4
SR13	5/1/2017 0:45	24.19	95.6	7.24	4.8	SR13	5/1/2017 6:45	23.95	97.0	7.35	1.4	SR13	5/1/2017 12:45	24.38	97.9	7.42	2.8	SR13	5/1/2017 18:45	24.81	96.0	7.27	5.6
SR13	5/1/2017 0:50	24.10	95.3	7.22	3.6	SR13	5/1/2017 6:50	23.97	97.8	7.41	4.0	SR13	5/1/2017 12:50	24.45	98.5	7.46	5.4	SR13	5/1/2017 18:50	24.74	96.0	7.27	5.3
SR13	5/1/2017 0:55	24.12	96.9	7.34	1.9	SR13	5/1/2017 6:55	23.99	95.8	7.26	2.5	SR13	5/1/2017 12:55	24.46	99.3	7.52	4.4	SR13	5/1/2017 18:55	24.78	96.9	7.34	4.3
SR13	5/1/2017 1:00	24.12	96.9	7.34	5.8	SR13	5/1/2017 7:00	23.98	98.7	7.48	4.8	SR13	5/1/2017 13:00	24.32	96.0	7.27	2.8	SR13	5/1/2017 19:00	24.77	98.6	7.47	3.2
SR13	5/1/2017 1:05	24.11	98.1	7.43	3.0	SR13	5/1/2017 7:05	23.99	96.5	7.31	1.4	SR13	5/1/2017 13:05	24.47	98.1	7.43	2.9	SR13	5/1/2017 19:05	24.86	97.0	7.35	4.6
SR13	5/1/2017 1:10	24.12	97.5	7.39	2.7	SR13	5/1/2017 7:10	24.00	96.5	7.31	4.5	SR13	5/1/2017 13:10	24.41	97.2	7.36	4.5	SR13	5/1/2017 19:10	25.08	95.4	7.23	2.5
SR13	5/1/2017 1:15	24.11	99.1	7.51	3.6	SR13	5/1/2017 7:15	24.01	97.9	7.42	5.6	SR13	5/1/2017 13:15	24.26	96.4	7.30	2.7	SR13	5/1/2017 19:15	25.03	98.5	7.46	2.2
SR13	5/1/2017 1:20	24.10	97.0	7.35	2.5	SR13	5/1/2017 7:20	24.02	98.6	7.47	3.1	SR13	5/1/2017 13:20	24.31	96.1	7.28	2.9	SR13	5/1/2017 19:20	24.96	98.6	7.47	3.5
SR13	5/1/2017 1:25	24.10	98.9	7.49	1.8	SR13	5/1/2017 7:25	24.03	95.7	7.25	5.5	SR13	5/1/2017 13:25	24.30	97.2	7.36	4.9	SR13	5/1/2017 19:25	24.94	96.9	7.34	5.0
SR13	5/1/2017 1:30	24.12	99.1	7.51	1.7	SR13	5/1/2017 7:30	24.05	98.6	7.47	3.6	SR13	5/1/2017 13:30	24.27	98.9	7.49	4.2	SR13	5/1/2017 19:30	25.03	99.0	7.50	5.5
SR13	5/1/2017 1:35	24.14	99.0	7.50	2.2	SR13	5/1/2017 7:35	24.04	99.1	7.51	5.9	SR13	5/1/2017 13:35	24.25	96.9	7.34	3.7	SR13	5/1/2017 19:35	24.88	95.3	7.22	4.7
SR13	5/1/2017 1:40	24.14	96.5	7.31	1.7	SR13	5/1/2017 7:40	24.05	96.6	7.32	1.8	SR13	5/1/2017 13:40	24.28	97.8	7.41	3.4	SR13	5/1/2017 19:40	24.78	95.4	7.23	5.6
SR13	5/1/2017 1:45	24.15	98.7	7.48	5.5	SR13	5/1/2017 7:45	24.05	98.2	7.44	1.3	SR13	5/1/2017 13:45	24.45	96.5	7.31	5.9	SR13	5/1/2017 19:45	24.76	97.9	7.42	2.1
SR13	5/1/2017 1:50	24.18	96.0	7.27	3.8	SR13	5/1/2017 7:50	24.05	98.3	7.45	5.6	SR13	5/1/2017 13:50	24.46	97.7	7.40	3.1	SR13	5/1/2017 19:50	24.73	99.0	7.50	1.5
SR13	5/1/2017 1:55	24.21	97.4	7.38	2.2	SR13	5/1/2017 7:55	24.05	96.4	7.30	2.2	SR13	5/1/2017 13:55	24.52	95.3	7.22	3.6	SR13	5/1/2017 19:55	24.68	95.6	7.24	2.5
SR13	5/1/2017 2:00	24.14	96.6	7.32	2.7	SR13	5/1/2017 8:00	24.05	99.3	7.52	4.5	SR13	5/1/2017 14:00	24.51	98.3	7.45	5.3	SR13	5/1/2017 20:00	24.71	95.4	7.23	3.9
SR13	5/1/2017 2:05	24.15	96.0	7.27	4.8	SR13	5/1/2017 8:05	24.05	95.6	7.24	2.3	SR13	5/1/2017 14:05	24.58	96.4	7.30	4.6	SR13	5/1/2017 20:05	24.77	95.8	7.26	3.1
SR13	5/1/2017 2:10	24.12	99.3	7.52	5.5	SR13	5/1/2017 8:10	24.05	98.1	7.43	2.3	SR13	5/1/2017 14:10	24.49	98.3	7.45	5.6	SR13	5/1/2017 20:10	24.75	99.3	7.52	5.0
SR13	5/1/2017 2:15	24.10	99.1	7.51	4.6	SR13	5/1/2017 8:15	24.06	97.5	7.39	1.7	SR13	5/1/2017 14:15	24.55	98.2	7.44	4.0	SR13	5/1/2017 20:15	24.78	97.2	7.36	4.4
SR13	5/1/2017 2:20	24.09	95.3	7.22	2.1	SR13	5/1/2017 8:20	24.06	98.6	7.47	5.6	SR13	5/1/2017 14:20	24.60	98.3	7.45	4.6	SR13	5/1/2017 20:20	24.76	98.5	7.46	3.8
SR13	5/1/2017 2:25	24.11	96.0	7.27	1.1	SR13	5/1/2017 8:25	24.06	97.9	7.42	2.5	SR13	5/1/2017 14:25	24.55	95.7	7.25	2.4	SR13	5/1/2017 20:25	24.74	98.7	7.48	3.1
SR13	5/1/2017 2:30	24.07	95.6	7.24	4.9	SR13	5/1/2017 8:30	24.06	95.7	7.25	4.3	SR13	5/1/2017 14:30	24.61	97.8	7.41	3.1	SR13	5/1/2017 20:30	24.74	95.4	7.23	1.6
SR13	5/1/2017 2:35	24.14	95.7	7.25	4.4	SR13	5/1/2017 8:35	24.06	98.7	7.48	3.6	SR13	5/1/2017 14:35	24.62	97.5	7.39	2.6	SR13	5/1/2017 20:35	24.74	96.6	7.32	5.9
SR13	5/1/2017 2:40	24.13	98.6	7.47	4.4	SR13	5/1/2017 8:40	24.08	98.7	7.48	4.0	SR13	5/1/2017 14:40	24.59	97.9	7.42	4.2	SR13	5/1/2017 20:40	24.78	95.8	7.26	2.9
SR13	5/1/2017 2:45	24.14	96.2	7.29	4.3	SR13	5/1/2017 8:45	24.08	97.8	7.41	5.0	SR13	5/1/2017 14:45	24.60	97.9	7.42	4.5	SR13	5/1/2017 20:45	24.87	99.3	7.52	3.7
SR13	5/1/2017 2:50	24.16	97.3	7.37	4.1	SR13	5/1/2017 8:50	24.08	96.6	7.32	2.4	SR13	5/1/2017 14:50	24.66	96.0	7.27	5.7	SR13	5/1/2017 20:50	24.86	97.4	7.38	2.8
SR13	5/1/2017 2:55	24.13	97.0	7.35	2.5	SR13	5/1/2017 8:55	24.11	98.1	7.43	5.9	SR13	5/1/2017 14:55	24.60	96.4	7.30	3.2	SR13	5/1/2017 20:55	24.85	96.5	7.31	2.6
SR13	5/1/2017 3:00	24.15	97.3	7.37	2.9	SR13	5/1/2017 9:00	24.11	96.9	7.34	4.1	SR13	5/1/2017 15:00	24.58	97.9	7.42	4.8	SR13	5/1/2017 21:00	24.80	96.2	7.29	5.0
SR13	5/1/2017 3:05	24.14	96.8	7.33	2.8	SR13	5/1/2017 9:05	24.09	95.3	7.22	1.8	SR13	5/1/2017 15:05	24.37	99.1	7.51	2.7	SR13	5/1/2017 21:05	24.76	99.3	7.52	2.0
SR13	5/1/2017 3:10	24.15	99.3	7.52	2.1	SR13	5/1/2017 9:10	24.11	99.3	7.52	2.6	SR13	5/1/2017 15:10	24.71	95.6	7.24	5.2	SR13	5/1/2017 21:10	24.73	96.4	7.30	5.9
SR13	5/1/2017 3:15	24.17	95.6	7.24	2.1	SR13	5/1/2017 9:15	24.10	96.5	7.31	4.1	SR13	5/1/2017 15:15	24.39	96.0	7.27	3.5	SR13	5/1/2017 21:15	25.13	99.3	7.52	5.8
SR13	5/1/2017 3:20	24.17	98.9	7.49	3.0	SR13	5/1/2017 9:20	24.10	96.5	7.31	5.5	SR13	5/1/2017 15:20	24.40	97.2	7.36	3.4	SR13	5/1/2017 21:20	25.12	97.8	7.41	3.1
SR13	5/1/2017 3:25	24.16	99.1	7.51	3.2	SR13	5/1/2017 9:25	24.10	97.7	7.40	3.5	SR13	5/1/2017 15:25	24.46	96.4	7.30	1.1	SR13	5/1/2017 21:25	24.98	96.9	7.34	3.9
SR13	5/1/2017 3:30	24.16	96.1	7.28	3.0	SR13	5/1/2017 9:30	24.10	98.5	7.46	1.8	SR13	5/1/2017 15:30	24.51	98.5	7.46	4.2	SR13	5/1/2017 21:30	24.98	98.1	7.43	3.7
SR13	5/1/2017 3:35	24.15	95.3	7.22	4.5	SR13	5/1/2017 9:35	24.08	97.8	7.41	4.8	SR13	5/1/2017 15:35	24.46	98.5	7.46	3.6	SR13	5/1/2017 21:35	25.05	97.5	7.39	5.3
SR13	5/1/2017 3:40	24.13	97.4	7.38	2.5	SR13	5/1/2017 9:40	24.07	97.7	7.40	1.5	SR13	5/1/2017 15:40	24.43	97.4	7.38	4.5	SR13	5/1/2017 21:40	25.02	99.1	7.51	3.7
SR13	5/1/2017 3:45	24.04	98.1	7.43	4.3	SR13	5/1/2017 9:45	24.11	98.5	7.46	2.5	SR13	5/1/2017 15:45	24.87	96.5	7.31	2.9	SR13	5/1/2017 21:45	24.98	96.8	7.33	2.6
SR13	5/1/2017 3:50	24.07	95.7	7.25	3.2	SR13	5/1/2017 9:50	24.09	98.7	7.48	5.8	SR13	5/1/2017 15:50	24.83	97.7	7.40	5.7	SR13	5/1/2017 21:50	24.95	98.1	7.43	4.6
SR13	5/1/2017 3:55	24.03	96.8	7.33	5.0	SR13	5/1/2017 9:55	24.															

24-hr Water Quality Monitoring

Station	Timestamp	NH <sub>3</sub> (mg/L)				Station	Timestamp	NH <sub>3</sub> (mg/L)			
SR4	5/1/2017 0:17	0.16				SR12	5/1/2017 0:17	0.13			
SR4	5/1/2017 0:37	0.15				SR12	5/1/2017 0:37	0.13			
SR4	5/1/2017 0:57	0.16				SR12	5/1/2017 0:57	0.14			
SR4	5/1/2017 1:17	0.13				SR12	5/1/2017 1:17	0.14			
SR4	5/1/2017 1:37	0.17				SR12	5/1/2017 1:37	0.17			
SR4	5/1/2017 1:57	0.14				SR12	5/1/2017 1:57	0.14			
SR4	5/1/2017 2:17	0.14				SR12	5/1/2017 2:17	0.13			
SR4	5/1/2017 2:37	0.15				SR12	5/1/2017 2:37	0.13			
SR4	5/1/2017 2:57	0.17				SR12	5/1/2017 2:57	0.16			
SR4	5/1/2017 3:17	0.17				SR12	5/1/2017 3:17	0.17			
SR4	5/1/2017 3:37	0.16				SR12	5/1/2017 3:37	0.15			
SR4	5/1/2017 3:57	0.16				SR12	5/1/2017 3:57	0.14			
SR4	5/1/2017 4:17	0.16				SR12	5/1/2017 4:17	0.16			
SR4	5/1/2017 4:37	0.17				SR12	5/1/2017 4:37	0.17			
SR4	5/1/2017 4:57	0.15				SR12	5/1/2017 4:57	0.16			
SR4	5/1/2017 5:17	0.17				SR12	5/1/2017 5:17	0.16			
SR4	5/1/2017 5:37	0.17				SR12	5/1/2017 5:37	0.15			
SR4	5/1/2017 5:57	0.16				SR12	5/1/2017 5:57	0.14			
SR4						SR12					
SR4	5/1/2017 6:37	0.13				SR12	5/1/2017 6:37	0.15			
SR4	5/1/2017 6:57	0.13				SR12	5/1/2017 6:57	0.14			
SR4	5/1/2017 7:17	0.16				SR12	5/1/2017 7:17	0.14			
SR4	5/1/2017 7:37	0.16				SR12	5/1/2017 7:37	0.15			
SR4	5/1/2017 7:57	0.17				SR12	5/1/2017 7:57	0.16			
SR4	5/1/2017 8:17	0.15				SR12	5/1/2017 8:17	0.14			
SR4	5/1/2017 8:37	0.16				SR12	5/1/2017 8:37	0.15			
SR4	5/1/2017 8:57	0.15				SR12	5/1/2017 8:57	0.17			
SR4	5/1/2017 9:17	0.15				SR12	5/1/2017 9:17	0.17			
SR4	5/1/2017 9:37	0.13				SR12	5/1/2017 9:37	0.17			
SR4	5/1/2017 9:57	0.16				SR12	5/1/2017 9:57	0.17			
SR4	5/1/2017 10:17	0.13				SR12	5/1/2017 10:17	0.16			
SR4	5/1/2017 10:37	0.17				SR12	5/1/2017 10:37	0.16			
SR4	5/1/2017 10:57	0.14				SR12	5/1/2017 10:57	0.15			
SR4	5/1/2017 11:17	0.15				SR12	5/1/2017 11:17	0.13			
SR4	5/1/2017 11:37	0.14				SR12	5/1/2017 11:37	0.17			
SR4	5/1/2017 11:57	0.15				SR12	5/1/2017 11:57	0.14			
SR4	5/1/2017 12:17	0.14				SR12	5/1/2017 12:17	0.13			
SR4	5/1/2017 12:37	0.14				SR12	5/1/2017 12:37	0.15			
SR4	5/1/2017 12:57	0.13				SR12	5/1/2017 12:57	0.13			
SR4	5/1/2017 13:17	0.16				SR12	5/1/2017 13:17	0.15			
SR4	5/1/2017 13:37	0.17				SR12	5/1/2017 13:37	0.15			
SR4	5/1/2017 13:57	0.17				SR12	5/1/2017 13:57	0.15			
SR4	5/1/2017 14:17	0.13				SR12	5/1/2017 14:17	0.16			
SR4	5/1/2017 14:37	0.15				SR12	5/1/2017 14:37	0.14			
SR4	5/1/2017 14:57	0.14				SR12	5/1/2017 14:57	0.13			
SR4	5/1/2017 15:17	0.17				SR12	5/1/2017 15:17	0.13			
SR4	5/1/2017 15:37	0.17				SR12	5/1/2017 15:37	0.13			
SR4	5/1/2017 15:57	0.17				SR12	5/1/2017 15:57	0.16			
SR4	5/1/2017 16:17	0.14				SR12	5/1/2017 16:17	0.17			
SR4	5/1/2017 16:37	0.17				SR12	5/1/2017 16:37	0.14			
SR4	5/1/2017 16:57	0.15				SR12	5/1/2017 16:57	0.13			
SR4	5/1/2017 17:17	0.14				SR12	5/1/2017 17:17	0.14			
SR4	5/1/2017 17:37	0.13				SR12	5/1/2017 17:37	0.14			
SR4	5/1/2017 17:57	0.12				SR12	5/1/2017 17:57	0.11			
SR4	5/1/2017 18:17	0.12				SR12	5/1/2017 18:17	0.13			
SR4	5/1/2017 18:37	0.10				SR12	5/1/2017 18:37	0.12			
SR4	5/1/2017 18:57	0.10				SR12	5/1/2017 18:57	0.10			
SR4	5/1/2017 19:17	0.10				SR12	5/1/2017 19:17	0.13			
SR4	5/1/2017 19:37	0.10				SR12	5/1/2017 19:37	0.11			
SR4	5/1/2017 19:57	0.13				SR12	5/1/2017 19:57	0.12			
SR4	5/1/2017 20:17	0.11				SR12	5/1/2017 20:17	0.10			
SR4	5/1/2017 20:37	0.10				SR12	5/1/2017 20:37	0.10			
SR4	5/1/2017 20:57	0.13				SR12	5/1/2017 20:57	0.12			
SR4	5/1/2017 21:17	0.10				SR12	5/1/2017 21:17	0.13			
SR4	5/1/2017 21:37	0.14				SR12	5/1/2017 21:37	0.14			
SR4	5/1/2017 21:57	0.12				SR12	5/1/2017 21:57	0.14			
SR4	5/1/2017 22:17	0.12				SR12	5/1/2017 22:17	0.11			
SR4	5/1/2017 22:37	0.12				SR12	5/1/2017 22:37	0.13			
SR4	5/1/2017 22:57	0.13				SR12	5/1/2017 22:57	0.12			
SR4	5/1/2017 23:17	0.12				SR12	5/1/2017 23:17	0.10			
SR4	5/1/2017 23:37	0.14				SR12	5/1/2017 23:37	0.12			
SR4	5/1/2017 23:57	0.14				SR12	5/1/2017 23:57	0.10			

Remark: Fonts with underline: Action Level Exceedance

**Fonts in Bold with underline: Limit Level Exceedance**

Automatic instrument calibration of NH3-N monitor was carried out during 5:57-6:37 at SR4 and SR12.

24-hr Water Quality Monitoring

Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)
SR4	5/2/2017 0:01	24.74	94.4	7.26	4.5	SR4	5/2/2017 6:01	24.55	93.5	7.19	4.0	SR4	5/2/2017 12:01	25.01	94.3	7.25	6.1	SR4	5/2/2017 18:01	24.76	92.3	7.10	6.3
SR4	5/2/2017 0:06	24.76	93.1	7.16	9.1	SR4	5/2/2017 6:06	24.54	92.4	7.11	6.7	SR4	5/2/2017 12:06	24.94	93.1	7.16	6.3	SR4	5/2/2017 18:06	24.76	92.3	7.10	6.9
SR4	5/2/2017 0:11	24.76	94.9	7.30	5.4	SR4	5/2/2017 6:11	24.56	92.3	7.10	8.6	SR4	5/2/2017 12:11	24.86	92.4	7.11	6.5	SR4	5/2/2017 18:11	24.83	92.8	7.14	7.5
SR4	5/2/2017 0:16	24.77	94.9	7.30	6.7	SR4	5/2/2017 6:16	24.55	94.8	7.29	6.1	SR4	5/2/2017 12:16	24.72	94.9	7.30	8.2	SR4	5/2/2017 18:16	24.78	93.7	7.21	4.2
SR4	5/2/2017 0:21	24.78	93.3	7.18	8.6	SR4	5/2/2017 6:21	24.55	92.3	7.10	8.6	SR4	5/2/2017 12:21	24.71	93.3	7.18	8.9	SR4	5/2/2017 18:21	24.88	92.2	7.09	7.5
SR4	5/2/2017 0:26	24.77	94.1	7.24	5.6	SR4	5/2/2017 6:26	24.54	94.5	7.27	4.0	SR4	5/2/2017 12:26	24.70	95.0	7.31	3.4	SR4	5/2/2017 18:26	24.86	94.3	7.25	8.4
SR4	5/2/2017 0:31	24.77	92.2	7.09	3.6	SR4	5/2/2017 6:31	24.53	94.8	7.29	8.8	SR4	5/2/2017 12:31	24.64	92.4	7.11	5.4	SR4	5/2/2017 18:31	24.85	93.1	7.16	3.7
SR4	5/2/2017 0:36	24.79	92.2	7.09	3.3	SR4	5/2/2017 6:36	24.52	95.0	7.31	4.3	SR4	5/2/2017 12:36	24.64	92.6	7.12	5.3	SR4	5/2/2017 18:36	24.75	94.6	7.28	3.4
SR4	5/2/2017 0:41	24.82	93.3	7.18	8.7	SR4	5/2/2017 6:41	24.51	94.9	7.30	5.1	SR4	5/2/2017 12:41	24.67	94.3	7.25	4.6	SR4	5/2/2017 18:41	24.78	93.1	7.16	9.4
SR4	5/2/2017 0:46	24.82	94.8	7.29	6.3	SR4	5/2/2017 6:46	24.50	93.9	7.22	4.3	SR4	5/2/2017 12:46	24.68	92.7	7.13	4.5	SR4	5/2/2017 18:46	24.77	93.7	7.21	4.8
SR4	5/2/2017 0:51	24.82	94.6	7.28	3.7	SR4	5/2/2017 6:51	24.49	93.6	7.20	7.2	SR4	5/2/2017 12:51	24.66	93.7	7.21	9.3	SR4	5/2/2017 18:51	24.84	94.5	7.27	9.2
SR4	5/2/2017 0:56	24.82	94.5	7.27	7.5	SR4	5/2/2017 6:56	24.49	93.5	7.19	7.3	SR4	5/2/2017 12:56	24.66	92.7	7.13	5.5	SR4	5/2/2017 18:56	24.79	92.4	7.11	3.9
SR4	5/2/2017 1:01	24.82	94.4	7.26	5.7	SR4	5/2/2017 7:01	24.48	93.9	7.22	7.8	SR4	5/2/2017 13:01	24.67	93.1	7.16	7.2	SR4	5/2/2017 19:01	24.74	92.3	7.10	4.6
SR4	5/2/2017 1:06	24.83	93.2	7.17	8.5	SR4	5/2/2017 7:06	24.47	94.4	7.26	9.4	SR4	5/2/2017 13:06	24.69	92.4	7.11	4.4	SR4	5/2/2017 19:06	24.74	94.6	7.28	6.4
SR4	5/2/2017 1:11	24.82	94.3	7.25	6.8	SR4	5/2/2017 7:11	24.46	92.8	7.14	8.4	SR4	5/2/2017 13:11	24.77	94.6	7.28	5.9	SR4	5/2/2017 19:11	24.71	94.5	7.27	8.1
SR4	5/2/2017 1:16	24.82	93.5	7.19	3.4	SR4	5/2/2017 7:16	24.45	93.2	7.17	<b>10.8</b>	SR4	5/2/2017 13:16	24.77	94.5	7.27	9.1	SR4	5/2/2017 19:16	24.69	93.7	7.21	5.9
SR4	5/2/2017 1:21	24.82	92.2	7.09	4.9	SR4	5/2/2017 7:21	24.44	92.3	7.10	9.1	SR4	5/2/2017 13:21	24.81	93.7	7.21	9.2	SR4	5/2/2017 19:21	24.64	92.7	7.13	4.9
SR4	5/2/2017 1:26	24.81	92.8	7.14	6.0	SR4	5/2/2017 7:26	24.44	93.3	7.18	8.9	SR4	5/2/2017 13:26	24.81	94.5	7.27	<b>10.8</b>	SR4	5/2/2017 19:26	24.67	92.2	7.09	4.4
SR4	5/2/2017 1:31	24.81	94.6	7.28	8.2	SR4	5/2/2017 7:31	24.44	94.6	7.28	7.1	SR4	5/2/2017 13:31	24.81	94.9	7.30	5.3	SR4	5/2/2017 19:31	24.67	91.1	7.12	4.4
SR4	5/2/2017 1:36	24.81	93.5	7.19	5.6	SR4	5/2/2017 7:36	24.44	93.2	7.17	7.8	SR4	5/2/2017 13:36	24.80	94.6	7.28	7.2	SR4	5/2/2017 19:36	24.70	89.1	6.96	2.8
SR4	5/2/2017 1:41	24.80	94.6	7.28	8.8	SR4	5/2/2017 7:41	24.43	93.3	7.18	5.5	SR4	5/2/2017 13:41	24.74	94.0	7.23	5.7	SR4	5/2/2017 19:41	24.78	86.9	6.79	3.7
SR4	5/2/2017 1:46	24.80	95.0	7.31	9.1	SR4	5/2/2017 7:46	24.43	93.7	7.21	7.4	SR4	5/2/2017 13:46	24.69	93.6	7.20	4.6	SR4	5/2/2017 19:46	24.81	87.8	6.86	5.8
SR4	5/2/2017 1:51	24.79	92.2	7.09	7.8	SR4	5/2/2017 7:51	24.46	94.5	7.27	9.4	SR4	5/2/2017 13:51	24.73	94.0	7.23	3.7	SR4	5/2/2017 19:51	24.90	87.2	6.81	3.6
SR4	5/2/2017 1:56	24.77	93.0	7.15	3.8	SR4	5/2/2017 7:56	24.52	93.9	7.22	8.0	SR4	5/2/2017 13:56	24.79	93.3	7.18	5.0	SR4	5/2/2017 19:56	24.98	89.6	7.00	5.1
SR4	5/2/2017 2:01	24.78	94.6	7.28	6.0	SR4	5/2/2017 8:01	24.52	93.1	7.16	8.2	SR4	5/2/2017 14:01	24.80	94.3	7.25	6.6	SR4	5/2/2017 20:01	25.04	87.3	6.82	2.7
SR4	5/2/2017 2:06	24.80	94.4	7.26	4.2	SR4	5/2/2017 8:06	24.52	92.6	7.12	6.1	SR4	5/2/2017 14:06	24.87	93.2	7.17	7.4	SR4	5/2/2017 20:06	25.10	90.1	7.04	5.0
SR4	5/2/2017 2:11	24.79	94.8	7.29	6.3	SR4	5/2/2017 8:11	24.54	93.1	7.16	7.8	SR4	5/2/2017 14:11	24.88	93.7	7.21	7.3	SR4	5/2/2017 20:11	25.14	89.5	6.99	3.2
SR4	5/2/2017 2:16	24.78	93.1	7.16	7.2	SR4	5/2/2017 8:16	24.54	93.2	7.17	4.1	SR4	5/2/2017 14:16	24.92	92.2	7.09	7.1	SR4	5/2/2017 20:16	25.15	90.4	7.06	4.3
SR4	5/2/2017 2:21	24.77	94.0	7.23	8.6	SR4	5/2/2017 8:21	24.49	94.4	7.26	6.7	SR4	5/2/2017 14:21	25.02	95.0	7.31	6.8	SR4	5/2/2017 20:21	25.14	90.1	7.04	4.8
SR4	5/2/2017 2:26	24.76	94.1	7.24	5.4	SR4	5/2/2017 8:26	24.49	93.2	7.17	8.1	SR4	5/2/2017 14:26	25.12	94.4	7.26	6.6	SR4	5/2/2017 20:26	25.16	86.9	6.79	6.2
SR4	5/2/2017 2:31	24.75	92.7	7.13	6.1	SR4	5/2/2017 8:31	24.48	92.3	7.10	8.4	SR4	5/2/2017 14:31	25.31	93.9	7.22	3.2	SR4	5/2/2017 20:31	25.13	87.6	6.84	5.0
SR4	5/2/2017 2:36	24.75	94.9	7.30	7.7	SR4	5/2/2017 8:36	24.45	94.9	7.30	7.7	SR4	5/2/2017 14:36	25.18	93.5	7.19	6.9	SR4	5/2/2017 20:36	25.09	87.2	6.81	3.5
SR4	5/2/2017 2:41	24.75	95.0	7.31	4.6	SR4	5/2/2017 8:41	24.48	92.7	7.13	6.1	SR4	5/2/2017 14:41	25.07	92.4	7.11	4.2	SR4	5/2/2017 20:41	25.08	88.6	6.92	6.6
SR4	5/2/2017 2:46	24.75	94.0	7.23	9.1	SR4	5/2/2017 8:46	24.47	92.4	7.11	8.5	SR4	5/2/2017 14:46	25.04	92.8	7.14	6.3	SR4	5/2/2017 20:46	25.07	90.2	7.05	5.3
SR4	5/2/2017 2:51	24.75	92.7	7.13	6.7	SR4	5/2/2017 8:51	24.45	94.4	7.26	7.9	SR4	5/2/2017 14:51	25.05	94.1	7.24	9.1	SR4	5/2/2017 20:51	25.09	89.5	6.99	4.2
SR4	5/2/2017 2:56	24.76	93.6	7.20	7.7	SR4	5/2/2017 8:56	24.48	92.6	7.12	7.6	SR4	5/2/2017 14:56	24.97	94.9	7.30	6.9	SR4	5/2/2017 20:56	25.17	87.9	6.87	6.7
SR4	5/2/2017 3:01	24.75	93.5	7.19	6.1	SR4	5/2/2017 9:01	24.50	92.4	7.11	5.6	SR4	5/2/2017 15:01	24.90	93.7	7.21	8.6	SR4	5/2/2017 21:01	25.24	89.0	6.95	6.2
SR4	5/2/2017 3:06	24.74	95.0	7.31	5.8	SR4	5/2/2017 9:06	24.50	95.0	7.31	8.7	SR4	5/2/2017 15:06	24.87	94.5	7.27	5.2	SR4	5/2/2017 21:06	25.23	91.5	7.15	5.8
SR4	5/2/2017 3:11	24.72	92.3	7.10	6.5	SR4	5/2/2017 9:11	24.61	93.7	7.21	6.2	SR4	5/2/2017 15:11	25.00	92.2	7.09	4.0	SR4	5/2/2017 21:11	25.20	91.3	7.13	4.6
SR4	5/2/2017 3:16	24.71	92.7	7.13	6.4	SR4	5/2/2017 9:16	24.61	93.6	7.20	6.9	SR4	5/2/2017 15:16	25.02	93.2	7.17	9.4	SR4	5/2/2017 21:16	25.13	87.9	6.87	3.7
SR4	5/2/2017 3:21	24.68	93.3	7.18	6.3	SR4	5/2/2017 9:21	24.62	92.8	7.14	5.8	SR4	5/2/2017 15:21	25.20	94.3	7.25	6.9	SR4	5/2/2017 21:21	25.06	87.8	6.86	5.8
SR4	5/2/2017 3:26	24.67	93.7	7.21	3.1	SR4	5/2/2017 9:26	24.72	94.0	7.23	3.9	SR4	5/2/2017 15:26	25.23	92.6	7.12	7.3	SR4	5/2/2017 21:26	25.06	91.3	7.13	5.1
SR4	5/2/2017 3:31	24.67	93.7	7.21	7.1	SR4	5/2/2017 9:31	24.66	93.9	7.22	7.2	SR4	5/2/2017 15:31	25.16	92.8	7.14	7.7	SR4	5/2/2017 21:31	25.04	87.6	6.84	2.6
SR4	5/2/2017 3:36	24.68	93.1	7.16	7.0	SR4	5/2/2017 9:36	24.69	94.8	7.29	5.4	SR4	5/2/2017 15:36	25.14	93.9	7.22	4.0	SR4	5/2/2017 21:36	25.02	89.5	6.99	6.5
SR4	5/2/2017 3:41	24.69	95.0	7.31	4.8	SR4	5/2/2017 9:41	24.67	94.0	7.23	4.2	SR4	5/2/2017 15:41	25.17	93.6	7.20	5.2	SR4	5/2/2017 21:41	25.01	90.5	7.07	4.9
SR4	5/2/2017 3:46	24.68	94.8	7.29	5.2	SR4	5/2/2017 9:46	24.66	93.3	7.18	6.7	SR4	5/2/2017 15:46	25.21	93.1	7.16	9.1	SR4	5/2/2017 21:46	24.99	88.6	6.92	6.2
SR4	5/2/2017 3:51	24.68	94.4	7.26	7.6	SR4	5/2/2017 9:51	24.74	93.9	7.22	4.0	SR4	5/2/2017 15:51	25.19	92.8	7.14	6.3	SR4	5/2/2017 21:51	25.03	86.8	6.78	6.9
SR4	5/2/2017 3:56	24.68	92.4	7.11	8.1	SR4	5/2/2017 9:56	24.79	93.5	7.19	7.2	SR4	5/2/2017 15:56	25.12	93.5	7.19	4.4	SR4	5/2/2017 21:56	25.02	90.0	7.03	5.4
SR4	5/2/2017 4:01	24.69	94.5																				

24-hr Water Quality Monitoring

Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)
SR5	5/2/2017 0:00	25.87	93.1	7.00	8.4	SR5	5/2/2017 6:00	25.46	95.0	7.14	6.7	SR5	5/2/2017 12:00	25.28	86.9	6.63	5.6	SR5	5/2/2017 18:00	25.32	86.9	6.63	8.4
SR5	5/2/2017 0:05	25.95	95.5	7.18	5.9	SR5	5/2/2017 6:05	25.40	93.1	7.00	6.5	SR5	5/2/2017 12:05	25.38	89.7	6.85	6.8	SR5	5/2/2017 18:05	25.33	90.3	6.89	5.6
SR5	5/2/2017 0:10	25.92	95.8	7.20	7.4	SR5	5/2/2017 6:10	25.30	93.8	7.05	6.5	SR5	5/2/2017 12:10	25.36	87.4	6.67	3.9	SR5	5/2/2017 18:10	25.34	87.8	6.70	5.7
SR5	5/2/2017 0:15	25.88	94.7	7.12	4.7	SR5	5/2/2017 6:15	25.29	95.8	7.20	6.7	SR5	5/2/2017 12:15	25.35	87.5	6.68	6.8	SR5	5/2/2017 18:15	25.33	88.4	6.75	6.3
SR5	5/2/2017 0:20	25.89	94.7	7.12	5.0	SR5	5/2/2017 6:20	25.22	93.4	7.02	6.6	SR5	5/2/2017 12:20	25.33	91.3	6.97	7.3	SR5	5/2/2017 18:20	25.32	87.8	6.70	8.1
SR5	5/2/2017 0:25	25.91	94.3	7.09	8.9	SR5	5/2/2017 6:25	25.16	94.6	7.11	7.4	SR5	5/2/2017 12:25	25.33	88.2	6.73	8.9	SR5	5/2/2017 18:25	25.31	88.7	6.77	7.6
SR5	5/2/2017 0:30	25.91	94.4	7.10	5.0	SR5	5/2/2017 6:30	25.14	95.1	7.15	7.0	SR5	5/2/2017 12:30	25.41	87.9	6.71	4.5	SR5	5/2/2017 18:30	25.32	90.0	6.87	5.7
SR5	5/2/2017 0:35	25.95	96.2	7.23	4.9	SR5	5/2/2017 6:35	25.12	95.1	7.15	4.9	SR5	5/2/2017 12:35	25.52	88.3	6.74	7.7	SR5	5/2/2017 18:35	25.35	90.0	6.87	9.0
SR5	5/2/2017 0:40	26.03	93.4	7.02	6.0	SR5	5/2/2017 6:40	25.45	95.0	7.14	7.9	SR5	5/2/2017 12:40	25.58	90.3	6.89	5.4	SR5	5/2/2017 18:40	25.31	87.0	6.64	6.2
SR5	5/2/2017 0:45	26.08	95.8	7.20	5.0	SR5	5/2/2017 6:45	25.55	96.4	7.25	4.8	SR5	5/2/2017 12:45	25.60	89.9	6.86	7.2	SR5	5/2/2017 18:45	25.31	91.2	6.96	5.8
SR5	5/2/2017 0:50	26.11	95.9	7.21	6.5	SR5	5/2/2017 6:50	25.41	94.7	7.12	8.1	SR5	5/2/2017 12:50	25.63	91.3	6.97	6.9	SR5	5/2/2017 18:50	25.32	90.1	6.88	5.2
SR5	5/2/2017 0:55	26.07	95.5	7.18	7.4	SR5	5/2/2017 6:55	25.26	96.6	7.26	8.9	SR5	5/2/2017 12:55	25.65	89.7	6.85	7.9	SR5	5/2/2017 18:55	25.33	87.2	6.66	4.1
SR5	5/2/2017 1:00	26.08	96.2	7.23	5.1	SR5	5/2/2017 7:00	25.32	95.8	7.20	5.0	SR5	5/2/2017 13:00	25.63	89.2	6.81	5.0	SR5	5/2/2017 19:00	25.34	89.9	6.86	8.1
SR5	5/2/2017 1:05	26.18	96.7	7.27	7.7	SR5	5/2/2017 7:05	25.32	94.6	7.11	5.4	SR5	5/2/2017 13:05	25.70	89.5	6.83	4.2	SR5	5/2/2017 19:05	25.33	87.2	6.66	7.9
SR5	5/2/2017 1:10	26.19	94.7	7.12	8.7	SR5	5/2/2017 7:10	25.47	94.7	7.12	5.9	SR5	5/2/2017 13:10	25.76	87.8	6.70	5.6	SR5	5/2/2017 19:10	25.34	89.5	6.83	5.5
SR5	5/2/2017 1:15	26.00	95.4	7.17	7.6	SR5	5/2/2017 7:15	25.49	95.8	7.20	6.9	SR5	5/2/2017 13:15	25.75	89.9	6.86	5.6	SR5	5/2/2017 19:15	25.34	88.7	6.77	7.3
SR5	5/2/2017 1:20	26.06	95.9	7.21	5.1	SR5	5/2/2017 7:20	25.57	93.5	7.03	6.9	SR5	5/2/2017 13:20	25.73	91.4	6.98	7.6	SR5	5/2/2017 19:20	25.33	90.1	6.88	4.7
SR5	5/2/2017 1:25	26.03	93.8	7.05	5.4	SR5	5/2/2017 7:25	25.62	93.0	6.99	5.6	SR5	5/2/2017 13:25	25.63	87.5	6.77	6.7	SR5	5/2/2017 19:25	25.30	89.2	6.81	6.7
SR5	5/2/2017 1:30	26.32	96.3	7.24	5.3	SR5	5/2/2017 7:30	25.63	96.3	7.24	5.5	SR5	5/2/2017 13:30	25.63	87.5	6.77	6.7	SR5	5/2/2017 19:30	25.26	88.6	6.76	6.4
SR5	5/2/2017 1:35	26.53	95.1	7.15	6.0	SR5	5/2/2017 7:35	25.72	94.0	7.07	8.5	SR5	5/2/2017 13:35	25.63	87.5	6.77	6.7	SR5	5/2/2017 19:35	25.21	87.1	6.65	6.5
SR5	5/2/2017 1:40	26.60	95.1	7.15	6.4	SR5	5/2/2017 7:40	25.59	92.8	6.98	8.5	SR5	5/2/2017 13:40	25.56	88.0	6.72	8.2	SR5	5/2/2017 19:40	25.21	88.4	6.75	7.2
SR5	5/2/2017 1:45	26.55	93.6	7.04	5.6	SR5	5/2/2017 7:45	25.53	93.6	7.04	8.2	SR5	5/2/2017 13:45	25.54	89.7	6.85	5.3	SR5	5/2/2017 19:45	25.20	87.5	6.68	7.6
SR5	5/2/2017 1:50	26.56	94.2	7.08	7.9	SR5	5/2/2017 7:50	25.54	93.8	7.05	7.2	SR5	5/2/2017 13:50	25.52	87.0	6.64	8.9	SR5	5/2/2017 19:50	25.18	87.2	6.66	8.6
SR5	5/2/2017 1:55	26.54	94.7	7.12	6.5	SR5	5/2/2017 7:55	25.60	96.0	7.22	6.1	SR5	5/2/2017 13:55	25.52	89.1	6.80	5.8	SR5	5/2/2017 19:55	25.17	91.3	6.97	4.3
SR5	5/2/2017 2:00	26.64	93.1	7.00	5.3	SR5	5/2/2017 8:00	25.55	94.4	7.10	8.2	SR5	5/2/2017 14:00	25.50	90.1	6.88	7.0	SR5	5/2/2017 20:00	25.17	89.5	6.83	8.2
SR5	5/2/2017 2:05	26.69	96.6	7.26	8.2	SR5	5/2/2017 8:05	25.54	95.4	7.17	6.5	SR5	5/2/2017 14:05	25.49	88.6	6.76	4.2	SR5	5/2/2017 20:05	25.17	90.8	6.93	3.9
SR5	5/2/2017 2:10	26.65	95.4	7.17	5.5	SR5	5/2/2017 8:10	25.55	96.0	7.22	6.1	SR5	5/2/2017 14:10	25.49	87.4	6.67	5.9	SR5	5/2/2017 20:10	25.17	89.9	6.86	5.2
SR5	5/2/2017 2:15	26.59	94.8	7.13	6.3	SR5	5/2/2017 8:15	25.60	93.6	7.04	5.0	SR5	5/2/2017 14:15	25.50	87.5	6.68	4.0	SR5	5/2/2017 20:15	25.18	89.3	6.82	4.9
SR5	5/2/2017 2:20	26.54	95.1	7.15	7.4	SR5	5/2/2017 8:20	25.56	95.5	7.18	7.8	SR5	5/2/2017 14:20	25.51	88.7	6.77	4.5	SR5	5/2/2017 20:20	25.19	87.0	6.64	8.0
SR5	5/2/2017 2:25	26.59	96.4	7.25	7.6	SR5	5/2/2017 8:25	25.64	94.2	7.08	8.2	SR5	5/2/2017 14:25	25.52	86.6	6.61	6.7	SR5	5/2/2017 20:25	25.20	90.5	6.91	5.9
SR5	5/2/2017 2:30	26.66	94.3	7.09	8.4	SR5	5/2/2017 8:30	25.68	94.3	7.09	6.4	SR5	5/2/2017 14:30	25.50	89.2	6.81	8.0	SR5	5/2/2017 20:30	25.22	86.9	6.63	4.6
SR5	5/2/2017 2:35	26.63	94.7	7.12	6.6	SR5	5/2/2017 8:35	25.71	96.7	7.27	8.6	SR5	5/2/2017 14:35	25.55	91.3	6.97	8.9	SR5	5/2/2017 20:35	25.23	87.0	6.64	8.2
SR5	5/2/2017 2:40	26.51	94.8	7.13	6.3	SR5	5/2/2017 8:40	25.70	96.4	7.25	5.3	SR5	5/2/2017 14:40	25.55	91.2	6.96	4.4	SR5	5/2/2017 20:40	25.20	88.2	6.73	6.8
SR5	5/2/2017 2:45	26.57	92.8	6.98	6.7	SR5	5/2/2017 8:45	25.62	92.8	6.98	6.1	SR5	5/2/2017 14:45	25.56	87.4	6.67	8.2	SR5	5/2/2017 20:45	25.23	89.1	6.80	4.4
SR5	5/2/2017 2:50	26.60	93.4	7.02	8.0	SR5	5/2/2017 8:50	25.50	96.4	7.25	7.4	SR5	5/2/2017 14:50	25.54	88.3	6.74	8.6	SR5	5/2/2017 20:50	25.28	90.0	6.87	7.5
SR5	5/2/2017 2:55	26.62	94.0	7.07	8.3	SR5	5/2/2017 8:55	25.39	96.3	7.24	7.1	SR5	5/2/2017 14:55	25.52	90.3	6.89	5.7	SR5	5/2/2017 20:55	25.29	88.4	6.75	6.2
SR5	5/2/2017 3:00	26.59	92.8	6.98	6.5	SR5	5/2/2017 9:00	25.40	94.6	7.11	7.4	SR5	5/2/2017 15:00	25.50	91.2	6.96	4.6	SR5	5/2/2017 21:00	25.26	88.9	6.79	6.9
SR5	5/2/2017 3:05	26.52	95.2	7.16	7.7	SR5	5/2/2017 9:05	25.44	96.6	7.26	4.8	SR5	5/2/2017 15:05	25.49	87.8	6.70	5.1	SR5	5/2/2017 21:05	25.25	90.4	6.90	4.9
SR5	5/2/2017 3:10	26.51	95.9	7.21	8.1	SR5	5/2/2017 9:10	25.47	93.6	7.04	6.1	SR5	5/2/2017 15:10	25.47	88.2	6.73	6.0	SR5	5/2/2017 21:10	25.22	88.9	6.79	5.0
SR5	5/2/2017 3:15	26.43	94.6	7.11	8.5	SR5	5/2/2017 9:15	25.49	96.7	7.27	5.9	SR5	5/2/2017 15:15	25.48	89.7	6.85	7.2	SR5	5/2/2017 21:15	25.20	87.9	6.71	7.7
SR5	5/2/2017 3:20	26.39	95.2	7.16	5.9	SR5	5/2/2017 9:20	25.45	95.5	7.18	6.7	SR5	5/2/2017 15:20	25.50	87.6	6.69	3.9	SR5	5/2/2017 21:20	25.22	91.2	6.96	7.3
SR5	5/2/2017 3:25	26.22	93.2	7.01	6.4	SR5	5/2/2017 9:25	25.46	94.0	7.07	6.1	SR5	5/2/2017 15:25	25.47	90.1	6.88	8.7	SR5	5/2/2017 21:25	25.20	90.9	6.94	3.9
SR5	5/2/2017 3:30	26.07	93.8	7.05	8.8	SR5	5/2/2017 9:30	25.47	93.1	7.00	7.0	SR5	5/2/2017 15:30	25.44	88.0	6.72	8.0	SR5	5/2/2017 21:30	25.20	90.5	6.91	5.1
SR5	5/2/2017 3:35	25.83	96.0	7.22	8.9	SR5	5/2/2017 9:35	25.49	92.8	6.98	6.7	SR5	5/2/2017 15:35	25.42	89.5	6.83	4.4	SR5	5/2/2017 21:35	25.21	91.2	6.96	5.1
SR5	5/2/2017 3:40	25.71	96.2	7.23	7.3	SR5	5/2/2017 9:40	25.70	90.7	6.92	5.1	SR5	5/2/2017 15:40	25.43	87.5	6.68	3.9	SR5	5/2/2017 21:40	25.21	91.2	6.96	4.3
SR5	5/2/2017 3:45	25.65	93.1	7.00	4.9	SR5	5/2/2017 9:45	25.64	89.1	6.80	8.3	SR5	5/2/2017 15:45	25.43	89.7	6.85	8.8	SR5	5/2/2017 21:45	25.21	88.4	6.75	7.5
SR5	5/2/2017 3:50	25.61	93.0	6.99	8.4	SR5	5/2/2017 9:50	25.57	89.1	6.80	4.7	SR5	5/2/2017 15:50	25.44	91.4	6.98	6.2	SR5	5/2/2017 21:50	25.21	87.8	6.70	4.9
SR5	5/2/2017 3:55	25.59	94.8	7.13	8.4	SR5	5/2/2017 9:55	25.58	89.1	6.80	6.4	SR5	5/2/2017 15:55	25.43	91.6	6.99	5.3	SR5	5/2/2017 21:55	25.22	88.6	6.76	8.5
SR5	5/2/2017 4:00	25.																					







24-hr Water Quality Monitoring

Station	Timestamp	NH <sub>3</sub> (mg/L)				Station	Timestamp	NH <sub>3</sub> (mg/L)			
SR4	5/2/2017 0:17	0.11				SR12	5/2/2017 0:17	0.12			
SR4	5/2/2017 0:37	0.11				SR12	5/2/2017 0:37	0.12			
SR4	5/2/2017 0:57	0.10				SR12	5/2/2017 0:57	0.14			
SR4	5/2/2017 1:17	0.13				SR12	5/2/2017 1:17	0.12			
SR4	5/2/2017 1:37	0.13				SR12	5/2/2017 1:37	0.10			
SR4	5/2/2017 1:57	0.13				SR12	5/2/2017 1:57	0.11			
SR4	5/2/2017 2:17	0.11				SR12	5/2/2017 2:17	0.13			
SR4	5/2/2017 2:37	0.14				SR12	5/2/2017 2:37	0.13			
SR4	5/2/2017 2:57	0.13				SR12	5/2/2017 2:57	0.13			
SR4	5/2/2017 3:17	0.13				SR12	5/2/2017 3:17	0.10			
SR4	5/2/2017 3:37	0.11				SR12	5/2/2017 3:37	0.10			
SR4	5/2/2017 3:57	0.11				SR12	5/2/2017 3:57	0.11			
SR4	5/2/2017 4:17	0.11				SR12	5/2/2017 4:17	0.14			
SR4	5/2/2017 4:37	0.14				SR12	5/2/2017 4:37	0.14			
SR4	5/2/2017 4:57	0.12				SR12	5/2/2017 4:57	0.10			
SR4	5/2/2017 5:17	0.11				SR12	5/2/2017 5:17	0.14			
SR4	5/2/2017 5:37	0.11				SR12	5/2/2017 5:37	0.14			
SR4	5/2/2017 5:57	0.14				SR12	5/2/2017 5:57	0.14			
SR4						SR12					
SR4	5/2/2017 6:37	0.11				SR12	5/2/2017 6:37	0.10			
SR4	5/2/2017 6:57	0.10				SR12	5/2/2017 6:57	0.12			
SR4	5/2/2017 7:17	0.13				SR12	5/2/2017 7:17	0.13			
SR4	5/2/2017 7:37	0.14				SR12	5/2/2017 7:37	0.11			
SR4	5/2/2017 7:57	0.10				SR12	5/2/2017 7:57	0.12			
SR4	5/2/2017 8:17	0.10				SR12	5/2/2017 8:17	0.10			
SR4	5/2/2017 8:37	0.10				SR12	5/2/2017 8:37	0.14			
SR4	5/2/2017 8:57	0.11				SR12	5/2/2017 8:57	0.11			
SR4	5/2/2017 9:17	0.11				SR12	5/2/2017 9:17	0.10			
SR4	5/2/2017 9:37	0.08				SR12	5/2/2017 9:37	0.10			
SR4	5/2/2017 9:57	0.12				SR12	5/2/2017 9:57	0.12			
SR4						SR12	5/2/2017 10:17	0.10			
SR4						SR12	5/2/2017 10:37	0.09			
SR4						SR12	5/2/2017 10:57	0.12			
SR4						SR12	5/2/2017 11:17	0.10			
SR4	5/2/2017 11:37	0.08				SR12	5/2/2017 11:37	0.12			
SR4	5/2/2017 11:57	0.11				SR12	5/2/2017 11:57	0.09			
SR4	5/2/2017 12:17	0.09				SR12	5/2/2017 12:17	0.09			
SR4	5/2/2017 12:37	0.08				SR12	5/2/2017 12:37	0.12			
SR4	5/2/2017 12:57	0.11				SR12	5/2/2017 12:57	0.08			
SR4	5/2/2017 13:17	0.10				SR12					
SR4	5/2/2017 13:37	0.10				SR12					
SR4	5/2/2017 13:57	0.10				SR12					
SR4	5/2/2017 14:17	0.12				SR12					
SR4	5/2/2017 14:37	0.08				SR12					
SR4	5/2/2017 14:57	0.08				SR12	5/2/2017 14:57	0.10			
SR4	5/2/2017 15:17	0.10				SR12	5/2/2017 15:17	0.10			
SR4	5/2/2017 15:37	0.10				SR12	5/2/2017 15:37	0.09			
SR4	5/2/2017 15:57	0.08				SR12	5/2/2017 15:57	0.08			
SR4	5/2/2017 16:17	0.10				SR12	5/2/2017 16:17	0.08			
SR4	5/2/2017 16:37	0.08				SR12	5/2/2017 16:37	0.11			
SR4	5/2/2017 16:57	0.09				SR12	5/2/2017 16:57	0.08			
SR4	5/2/2017 17:17	0.12				SR12	5/2/2017 17:17	0.10			
SR4	5/2/2017 17:37	0.10				SR12	5/2/2017 17:37	0.11			
SR4	5/2/2017 17:57	0.09				SR12	5/2/2017 17:57	0.09			
SR4	5/2/2017 18:17	0.09				SR12	5/2/2017 18:17	0.08			
SR4	5/2/2017 18:37	0.11				SR12	5/2/2017 18:37	0.12			
SR4	5/2/2017 18:57	0.09				SR12	5/2/2017 18:57	0.10			
SR4	5/2/2017 19:17	0.10				SR12	5/2/2017 19:17	0.09			
SR4	5/2/2017 19:37	0.10				SR12	5/2/2017 19:37	0.08			
SR4	5/2/2017 19:57	0.08				SR12	5/2/2017 19:57	0.11			
SR4	5/2/2017 20:17	0.10				SR12	5/2/2017 20:17	0.12			
SR4	5/2/2017 20:37	0.10				SR12	5/2/2017 20:37	0.10			
SR4	5/2/2017 20:57	0.11				SR12	5/2/2017 20:57	0.12			
SR4	5/2/2017 21:17	0.12				SR12	5/2/2017 21:17	0.08			
SR4	5/2/2017 21:37	0.10				SR12	5/2/2017 21:37	0.08			
SR4	5/2/2017 21:57	0.10				SR12	5/2/2017 21:57	0.11			
SR4	5/2/2017 22:17	0.10				SR12	5/2/2017 22:17	0.11			
SR4	5/2/2017 22:37	0.13				SR12	5/2/2017 22:37	0.11			
SR4	5/2/2017 22:57	0.12				SR12	5/2/2017 22:57	0.10			
SR4	5/2/2017 23:17	0.14				SR12	5/2/2017 23:17	0.08			
SR4	5/2/2017 23:37	0.11				SR12	5/2/2017 23:37	0.08			
SR4	5/2/2017 23:57	0.14				SR12	5/2/2017 23:57	0.09			

Remark: Fonts with underline: Action Level Exceedance

**Fonts in Bold with underline: Limit Level Exceedance**

Automatic Instrument calibration of NH3-N monitor was carried out during 5:57-6:37 at SR4 and SR12.

SR4 monitoring station was under maintenance during 10:01-11:16.

SR5 monitoring station was under maintenance during 13:20-13:40.

SR12 monitoring station was under maintenance during 13:16-14:26.

SR13 monitoring station was under maintenance during 15:50-16:15.









24-hr Water Quality Monitoring

Station	Timestamp	NH <sub>3</sub> (mg/L)				Station	Timestamp	NH <sub>3</sub> (mg/L)			
SR4	5/3/2017 0:17	0.12				SR12	5/3/2017 0:17	0.12			
SR4	5/3/2017 0:37	0.10				SR12	5/3/2017 0:37	0.09			
SR4	5/3/2017 0:57	0.12				SR12	5/3/2017 0:57	0.10			
SR4	5/3/2017 1:17	0.12				SR12	5/3/2017 1:17	0.12			
SR4	5/3/2017 1:37	0.11				SR12	5/3/2017 1:37	0.10			
SR4	5/3/2017 1:57	0.10				SR12	5/3/2017 1:57	0.08			
SR4	5/3/2017 2:17	0.10				SR12	5/3/2017 2:17	0.10			
SR4	5/3/2017 2:37	0.14				SR12	5/3/2017 2:37	0.08			
SR4	5/3/2017 2:57	0.13				SR12	5/3/2017 2:57	0.08			
SR4	5/3/2017 3:17	0.12				SR12	5/3/2017 3:17	0.12			
SR4	5/3/2017 3:37	0.13				SR12	5/3/2017 3:37	0.09			
SR4	5/3/2017 3:57	0.14				SR12	5/3/2017 3:57	0.10			
SR4	5/3/2017 4:17	0.13				SR12	5/3/2017 4:17	0.09			
SR4	5/3/2017 4:37	0.10				SR12	5/3/2017 4:37	0.11			
SR4	5/3/2017 4:57	0.14				SR12	5/3/2017 4:57	0.09			
SR4	5/3/2017 5:17	0.14				SR12	5/3/2017 5:17	0.09			
SR4	5/3/2017 5:37	0.14				SR12	5/3/2017 5:37	0.09			
SR4	5/3/2017 5:57	0.13				SR12	5/3/2017 5:57	0.10			
SR4						SR12					
SR4	5/3/2017 6:37	0.10				SR12	5/3/2017 6:37	0.10			
SR4	5/3/2017 6:57	0.13				SR12	5/3/2017 6:57	0.08			
SR4	5/3/2017 7:17	0.13				SR12	5/3/2017 7:17	0.09			
SR4	5/3/2017 7:37	0.13				SR12	5/3/2017 7:37	0.08			
SR4	5/3/2017 7:57	0.14				SR12	5/3/2017 7:57	0.10			
SR4	5/3/2017 8:17	0.10				SR12	5/3/2017 8:17	0.11			
SR4	5/3/2017 8:37	0.11				SR12	5/3/2017 8:37	0.11			
SR4	5/3/2017 8:57	0.11				SR12	5/3/2017 8:57	0.11			
SR4	5/3/2017 9:17	0.11				SR12	5/3/2017 9:17	0.11			
SR4	5/3/2017 9:37	0.12				SR12	5/3/2017 9:37	0.10			
SR4	5/3/2017 9:57	0.13				SR12	5/3/2017 9:57	0.12			
SR4	5/3/2017 10:17	0.13				SR12	5/3/2017 10:17	0.10			
SR4	5/3/2017 10:37	0.14				SR12	5/3/2017 10:37	0.12			
SR4	5/3/2017 10:57	0.11				SR12	5/3/2017 10:57	0.13			
SR4	5/3/2017 11:17	0.14				SR12	5/3/2017 11:17	0.13			
SR4	5/3/2017 11:37	0.13				SR12	5/3/2017 11:37	0.11			
SR4	5/3/2017 11:57	0.10				SR12	5/3/2017 11:57	0.14			
SR4	5/3/2017 12:17	0.12				SR12	5/3/2017 12:17	0.10			
SR4	5/3/2017 12:37	0.13				SR12	5/3/2017 12:37	0.12			
SR4	5/3/2017 12:57	0.10				SR12	5/3/2017 12:57	0.13			
SR4	5/3/2017 13:17	0.13				SR12	5/3/2017 13:17	0.14			
SR4	5/3/2017 13:37	0.13				SR12	5/3/2017 13:37	0.14			
SR4	5/3/2017 13:57	0.14				SR12	5/3/2017 13:57	0.13			
SR4	5/3/2017 14:17	0.11				SR12	5/3/2017 14:17	0.14			
SR4	5/3/2017 14:37	0.14				SR12	5/3/2017 14:37	0.12			
SR4	5/3/2017 14:57	0.13				SR12	5/3/2017 14:57	0.11			
SR4	5/3/2017 15:17	0.16				SR12	5/3/2017 15:17	0.13			
SR4	5/3/2017 15:37	0.14				SR12	5/3/2017 15:37	0.12			
SR4	5/3/2017 15:57	0.14				SR12	5/3/2017 15:57	0.11			
SR4	5/3/2017 16:17	0.12				SR12	5/3/2017 16:17	0.12			
SR4	5/3/2017 16:37	0.12				SR12	5/3/2017 16:37	0.14			
SR4	5/3/2017 16:57	0.16				SR12	5/3/2017 16:57	0.13			
SR4	5/3/2017 17:17	0.14				SR12	5/3/2017 17:17	0.12			
SR4	5/3/2017 17:37	0.16				SR12	5/3/2017 17:37	0.14			
SR4	5/3/2017 17:57	0.14				SR12	5/3/2017 17:57	0.12			
SR4	5/3/2017 18:17	0.14				SR12	5/3/2017 18:17	0.12			
SR4	5/3/2017 18:37	0.16				SR12	5/3/2017 18:37	0.11			
SR4	5/3/2017 18:57	0.13				SR12	5/3/2017 18:57	0.13			
SR4	5/3/2017 19:17	0.16				SR12	5/3/2017 19:17	0.11			
SR4	5/3/2017 19:37	0.16				SR12	5/3/2017 19:37	0.10			
SR4	5/3/2017 19:57	0.15				SR12	5/3/2017 19:57	0.12			
SR4	5/3/2017 20:17	0.12				SR12	5/3/2017 20:17	0.10			
SR4	5/3/2017 20:37	0.13				SR12	5/3/2017 20:37	0.11			
SR4	5/3/2017 20:57	0.15				SR12	5/3/2017 20:57	0.13			
SR4	5/3/2017 21:17	0.14				SR12	5/3/2017 21:17	0.13			
SR4	5/3/2017 21:37	0.14				SR12	5/3/2017 21:37	0.11			
SR4	5/3/2017 21:57	0.13				SR12	5/3/2017 21:57	0.12			
SR4	5/3/2017 22:17	0.14				SR12	5/3/2017 22:17	0.12			
SR4	5/3/2017 22:37	0.16				SR12	5/3/2017 22:37	0.11			
SR4	5/3/2017 22:57	0.13				SR12	5/3/2017 22:57	0.10			
SR4	5/3/2017 23:17	0.13				SR12	5/3/2017 23:17	0.13			
SR4	5/3/2017 23:37	0.12				SR12	5/3/2017 23:37	0.10			
SR4	5/3/2017 23:57	0.13				SR12	5/3/2017 23:57	0.10			

Remark: Fonts with underline: Action Level Exceedance

**Fonts in Bold with underline: Limit Level Exceedance**

Automatic Instrument calibration of NH<sub>3</sub>-N monitor was carried out during 5:57-6:37 at SR4 and SR12.











24-hr Water Quality Monitoring

Station	Timestamp	NH <sub>3</sub> (mg/L)				Station	Timestamp	NH <sub>3</sub> (mg/L)			
SR4	5/4/2017 0:17	0.14				SR12	5/4/2017 0:17	0.12			
SR4	5/4/2017 0:37	0.13				SR12	5/4/2017 0:37	0.13			
SR4	5/4/2017 0:57	0.12				SR12	5/4/2017 0:57	0.10			
SR4	5/4/2017 1:17	0.15				SR12	5/4/2017 1:17	0.14			
SR4	5/4/2017 1:37	0.16				SR12	5/4/2017 1:37	0.13			
SR4	5/4/2017 1:57	0.15				SR12	5/4/2017 1:57	0.14			
SR4	5/4/2017 2:17	0.15				SR12	5/4/2017 2:17	0.17			
SR4	5/4/2017 2:37	0.13				SR12	5/4/2017 2:37	0.17			
SR4	5/4/2017 2:57	0.15				SR12	5/4/2017 2:57	0.15			
SR4	5/4/2017 3:17	0.16				SR12	5/4/2017 3:17	0.17			
SR4	5/4/2017 3:37	0.14				SR12	5/4/2017 3:37	0.15			
SR4	5/4/2017 3:57	0.15				SR12	5/4/2017 3:57	0.15			
SR4	5/4/2017 4:17	0.13				SR12	5/4/2017 4:17	0.17			
SR4	5/4/2017 4:37	0.12				SR12	5/4/2017 4:37	0.13			
SR4	5/4/2017 4:57	0.16				SR12	5/4/2017 4:57	0.13			
SR4	5/4/2017 5:17	0.12				SR12	5/4/2017 5:17	0.15			
SR4	5/4/2017 5:37	0.14				SR12	5/4/2017 5:37	0.14			
SR4	5/4/2017 5:57	0.14				SR12	5/4/2017 5:57	0.15			
SR4						SR12					
SR4	5/4/2017 6:37	0.15				SR12	5/4/2017 6:37	0.16			
SR4	5/4/2017 6:57	0.12				SR12	5/4/2017 6:57	0.15			
SR4	5/4/2017 7:17	0.15				SR12	5/4/2017 7:17	0.14			
SR4	5/4/2017 7:37	0.15				SR12	5/4/2017 7:37	0.13			
SR4	5/4/2017 7:57	0.13				SR12	5/4/2017 7:57	0.15			
SR4	5/4/2017 8:17	0.15				SR12	5/4/2017 8:17	0.16			
SR4	5/4/2017 8:37	0.14				SR12	5/4/2017 8:37	0.13			
SR4	5/4/2017 8:57	0.14				SR12	5/4/2017 8:57	0.13			
SR4	5/4/2017 9:17	0.17				SR12	5/4/2017 9:17	0.15			
SR4	5/4/2017 9:37	0.17				SR12	5/4/2017 9:37	0.15			
SR4	5/4/2017 9:57	0.14				SR12	5/4/2017 9:57	0.14			
SR4	5/4/2017 10:17	0.15				SR12	5/4/2017 10:17	0.16			
SR4	5/4/2017 10:37	0.14				SR12	5/4/2017 10:37	0.13			
SR4	5/4/2017 10:57	0.14				SR12	5/4/2017 10:57	0.13			
SR4	5/4/2017 11:17	0.14				SR12	5/4/2017 11:17	0.17			
SR4	5/4/2017 11:37	0.17				SR12	5/4/2017 11:37	0.14			
SR4	5/4/2017 11:57	0.15				SR12	5/4/2017 11:57	0.17			
SR4	5/4/2017 12:17	0.16				SR12	5/4/2017 12:17	0.16			
SR4	5/4/2017 12:37	0.15				SR12	5/4/2017 12:37	0.17			
SR4	5/4/2017 12:57	0.13				SR12	5/4/2017 12:57	0.14			
SR4	5/4/2017 13:17	0.16				SR12	5/4/2017 13:17	0.15			
SR4	5/4/2017 13:37	0.16				SR12	5/4/2017 13:37	0.17			
SR4	5/4/2017 13:57	0.14				SR12	5/4/2017 13:57	0.13			
SR4	5/4/2017 14:17	0.17				SR12	5/4/2017 14:17	0.17			
SR4	5/4/2017 14:37	0.14				SR12	5/4/2017 14:37	0.14			
SR4	5/4/2017 14:57	0.14				SR12	5/4/2017 14:57	0.17			
SR4	5/4/2017 15:17	0.17				SR12	5/4/2017 15:17	0.16			
SR4	5/4/2017 15:37	0.16				SR12	5/4/2017 15:37	0.17			
SR4	5/4/2017 15:57	0.13				SR12	5/4/2017 15:57	0.16			
SR4	5/4/2017 16:17	0.17				SR12	5/4/2017 16:17	0.14			
SR4	5/4/2017 16:37	0.15				SR12	5/4/2017 16:37	0.17			
SR4	5/4/2017 16:57	0.13				SR12	5/4/2017 16:57	0.14			
SR4	5/4/2017 17:17	0.17				SR12	5/4/2017 17:17	0.16			
SR4	5/4/2017 17:37	0.17				SR12	5/4/2017 17:37	0.13			
SR4	5/4/2017 17:57	0.17				SR12	5/4/2017 17:57	0.16			
SR4	5/4/2017 18:17	0.13				SR12	5/4/2017 18:17	0.16			
SR4	5/4/2017 18:37	0.14				SR12	5/4/2017 18:37	0.17			
SR4	5/4/2017 18:57	0.14				SR12	5/4/2017 18:57	0.16			
SR4	5/4/2017 19:17	0.15				SR12	5/4/2017 19:17	0.14			
SR4	5/4/2017 19:37	0.15				SR12	5/4/2017 19:37	0.18			
SR4	5/4/2017 19:57	0.15				SR12	5/4/2017 19:57	0.15			
SR4	5/4/2017 20:17	0.14				SR12	5/4/2017 20:17	0.14			
SR4	5/4/2017 20:37	0.15				SR12	5/4/2017 20:37	0.18			
SR4	5/4/2017 20:57	0.16				SR12	5/4/2017 20:57	0.16			
SR4	5/4/2017 21:17	0.16				SR12	5/4/2017 21:17	0.14			
SR4	5/4/2017 21:37	0.13				SR12	5/4/2017 21:37	0.15			
SR4	5/4/2017 21:57	0.13				SR12	5/4/2017 21:57	0.16			
SR4	5/4/2017 22:17	0.16				SR12	5/4/2017 22:17	0.14			
SR4	5/4/2017 22:37	0.14				SR12	5/4/2017 22:37	0.15			
SR4	5/4/2017 22:57	0.16				SR12	5/4/2017 22:57	0.16			
SR4	5/4/2017 23:17	0.13				SR12	5/4/2017 23:17	0.14			
SR4	5/4/2017 23:37	0.15				SR12	5/4/2017 23:37	0.14			
SR4	5/4/2017 23:57	0.16				SR12	5/4/2017 23:57	0.14			

Remark: Fonts with underline: Action Level Exceedance

**Fonts in Bold with underline: Limit Level Exceedance**

Automatic Instrument calibration of NH3-N monitor was carried out during 5:57-6:37 at SR4 and SR12. SR5 monitoring station was under maintenance during 10:20-10:45.











24-hr Water Quality Monitoring

Station	Timestamp	NH <sub>3</sub> (mg/L)				Station	Timestamp	NH <sub>3</sub> (mg/L)			
SR4	5/5/2017 0:17	0.14				SR12	5/5/2017 0:17	0.16			
SR4	5/5/2017 0:37	0.17				SR12	5/5/2017 0:37	0.14			
SR4	5/5/2017 0:57	0.15				SR12	5/5/2017 0:57	0.15			
SR4	5/5/2017 1:17	0.15				SR12	5/5/2017 1:17	0.16			
SR4	5/5/2017 1:37	0.13				SR12	5/5/2017 1:37	0.17			
SR4	5/5/2017 1:57	0.13				SR12	5/5/2017 1:57	0.14			
SR4	5/5/2017 2:17	0.16				SR12	5/5/2017 2:17	0.15			
SR4	5/5/2017 2:37	0.14				SR12	5/5/2017 2:37	0.16			
SR4	5/5/2017 2:57	0.15				SR12	5/5/2017 2:57	0.16			
SR4	5/5/2017 3:17	0.15				SR12	5/5/2017 3:17	0.14			
SR4	5/5/2017 3:37	0.17				SR12	5/5/2017 3:37	0.18			
SR4	5/5/2017 3:57	0.18				SR12	5/5/2017 3:57	0.14			
SR4	5/5/2017 4:17	0.16				SR12	5/5/2017 4:17	0.16			
SR4	5/5/2017 4:37	0.16				SR12	5/5/2017 4:37	0.14			
SR4	5/5/2017 4:57	0.18				SR12	5/5/2017 4:57	0.14			
SR4	5/5/2017 5:17	0.17				SR12	5/5/2017 5:17	0.16			
SR4	5/5/2017 5:37	0.17				SR12	5/5/2017 5:37	0.14			
SR4	5/5/2017 5:57	0.16				SR12	5/5/2017 5:57	0.14			
SR4						SR12					
SR4	5/5/2017 6:37	0.15				SR12	5/5/2017 6:37	0.16			
SR4	5/5/2017 6:57	0.18				SR12	5/5/2017 6:57	0.14			
SR4	5/5/2017 7:17	0.17				SR12	5/5/2017 7:17	0.17			
SR4	5/5/2017 7:37	0.18				SR12	5/5/2017 7:37	0.17			
SR4	5/5/2017 7:57	0.15				SR12	5/5/2017 7:57	0.16			
SR4	5/5/2017 8:17	0.17				SR12	5/5/2017 8:17	0.15			
SR4	5/5/2017 8:37	0.15				SR12	5/5/2017 8:37	0.16			
SR4	5/5/2017 8:57	0.17				SR12	5/5/2017 8:57	0.14			
SR4	5/5/2017 9:17	0.15				SR12	5/5/2017 9:17	0.16			
SR4	5/5/2017 9:37	0.18				SR12					
SR4	5/5/2017 9:57	0.15				SR12					
SR4	5/5/2017 10:17	0.16				SR12					
SR4	5/5/2017 10:37	0.14				SR12					
SR4	5/5/2017 10:57	0.14				SR12					
SR4	5/5/2017 11:17	0.16				SR12	5/5/2017 11:17	0.17			
SR4	5/5/2017 11:37	0.14				SR12	5/5/2017 11:37	0.17			
SR4	5/5/2017 11:57	0.15				SR12	5/5/2017 11:57	0.16			
SR4						SR12	5/5/2017 12:17	0.17			
SR4						SR12	5/5/2017 12:37	0.13			
SR4						SR12	5/5/2017 12:57	0.13			
SR4						SR12	5/5/2017 13:17	0.13			
SR4						SR12	5/5/2017 13:37	0.17			
SR4	5/5/2017 13:57	0.14				SR12	5/5/2017 13:57	0.13			
SR4	5/5/2017 14:17	0.14				SR12	5/5/2017 14:17	0.14			
SR4	5/5/2017 14:37	0.18				SR12	5/5/2017 14:37	0.17			
SR4	5/5/2017 14:57	0.17				SR12	5/5/2017 14:57	0.13			
SR4	5/5/2017 15:17	0.17				SR12	5/5/2017 15:17	0.17			
SR4	5/5/2017 15:37	0.17				SR12	5/5/2017 15:37	0.13			
SR4	5/5/2017 15:57	0.16				SR12	5/5/2017 15:57	0.13			
SR4	5/5/2017 16:17	0.16				SR12	5/5/2017 16:17	0.13			
SR4	5/5/2017 16:37	0.16				SR12	5/5/2017 16:37	0.14			
SR4	5/5/2017 16:57	0.14				SR12	5/5/2017 16:57	0.13			
SR4	5/5/2017 17:17	0.15				SR12	5/5/2017 17:17	0.15			
SR4	5/5/2017 17:37	0.15				SR12	5/5/2017 17:37	0.15			
SR4	5/5/2017 17:57	0.15				SR12	5/5/2017 17:57	0.17			
SR4	5/5/2017 18:17	0.17				SR12	5/5/2017 18:17	0.14			
SR4	5/5/2017 18:37	0.18				SR12	5/5/2017 18:37	0.16			
SR4	5/5/2017 18:57	0.14				SR12	5/5/2017 18:57	0.17			
SR4	5/5/2017 19:17	0.13				SR12	5/5/2017 19:17	0.14			
SR4	5/5/2017 19:37	0.14				SR12	5/5/2017 19:37	0.16			
SR4	5/5/2017 19:57	0.17				SR12	5/5/2017 19:57	0.15			
SR4	5/5/2017 20:17	0.16				SR12	5/5/2017 20:17	0.17			
SR4	5/5/2017 20:37	0.13				SR12	5/5/2017 20:37	0.13			
SR4	5/5/2017 20:57	0.15				SR12	5/5/2017 20:57	0.16			
SR4	5/5/2017 21:17	0.13				SR12	5/5/2017 21:17	0.17			
SR4	5/5/2017 21:37	0.15				SR12	5/5/2017 21:37	0.13			
SR4	5/5/2017 21:57	0.17				SR12	5/5/2017 21:57	0.16			
SR4	5/5/2017 22:17	0.16				SR12	5/5/2017 22:17	0.14			
SR4	5/5/2017 22:37	0.14				SR12	5/5/2017 22:37	0.14			
SR4	5/5/2017 22:57	0.13				SR12	5/5/2017 22:57	0.15			
SR4	5/5/2017 23:17	0.16				SR12	5/5/2017 23:17	0.17			
SR4	5/5/2017 23:37	0.14				SR12	5/5/2017 23:37	0.14			
SR4	5/5/2017 23:57	0.13				SR12	5/5/2017 23:57	0.15			

Remark: Fonts with underline: Action Level Exceedance

**Fonts in Bold with underline: Limit Level Exceedance**

Automatic Instrument calibration of NH3-N monitor was carried out during 5:57-6:37 at SR4 and SR12.

SR4 monitoring station was under maintenance during 12:16-13:31.

SR12 monitoring station was under maintenance during 9:36-10:51.

SR13 monitoring station was under maintenance during 15:45-16:10.









24-hr Water Quality Monitoring

Station	Timestamp	NH <sub>3</sub> (mg/L)				Station	Timestamp	NH <sub>3</sub> (mg/L)			
SR4	5/6/2017 0:17	0.13				SR12	5/6/2017 0:17	0.13			
SR4	5/6/2017 0:37	0.14				SR12	5/6/2017 0:37	0.17			
SR4	5/6/2017 0:57	0.14				SR12	5/6/2017 0:57	0.14			
SR4	5/6/2017 1:17	0.16				SR12	5/6/2017 1:17	0.17			
SR4	5/6/2017 1:37	0.16				SR12	5/6/2017 1:37	0.15			
SR4	5/6/2017 1:57	0.17				SR12	5/6/2017 1:57	0.15			
SR4	5/6/2017 2:17	0.14				SR12	5/6/2017 2:17	0.16			
SR4	5/6/2017 2:37	0.17				SR12	5/6/2017 2:37	0.14			
SR4	5/6/2017 2:57	0.14				SR12	5/6/2017 2:57	0.14			
SR4	5/6/2017 3:17	0.14				SR12	5/6/2017 3:17	0.14			
SR4	5/6/2017 3:37	0.15				SR12	5/6/2017 3:37	0.13			
SR4	5/6/2017 3:57	0.14				SR12	5/6/2017 3:57	0.13			
SR4	5/6/2017 4:17	0.16				SR12	5/6/2017 4:17	0.13			
SR4	5/6/2017 4:37	0.14				SR12	5/6/2017 4:37	0.16			
SR4	5/6/2017 4:57	0.14				SR12	5/6/2017 4:57	0.13			
SR4	5/6/2017 5:17	0.15				SR12	5/6/2017 5:17	0.12			
SR4	5/6/2017 5:37	0.13				SR12	5/6/2017 5:37	0.13			
SR4	5/6/2017 5:57	0.17				SR12	5/6/2017 5:57	0.14			
SR4						SR12					
SR4	5/6/2017 6:37	0.13				SR12	5/6/2017 6:37	0.16			
SR4	5/6/2017 6:57	0.16				SR12	5/6/2017 6:57	0.16			
SR4	5/6/2017 7:17	0.13				SR12	5/6/2017 7:17	0.16			
SR4	5/6/2017 7:37	0.14				SR12	5/6/2017 7:37	0.15			
SR4	5/6/2017 7:57	0.13				SR12	5/6/2017 7:57	0.15			
SR4	5/6/2017 8:17	0.13				SR12	5/6/2017 8:17	0.15			
SR4	5/6/2017 8:37	0.14				SR12	5/6/2017 8:37	0.16			
SR4	5/6/2017 8:57	0.16				SR12	5/6/2017 8:57	0.12			
SR4	5/6/2017 9:17	0.16				SR12	5/6/2017 9:17	0.15			
SR4	5/6/2017 9:37	0.16				SR12	5/6/2017 9:37	0.13			
SR4	5/6/2017 9:57	0.15				SR12	5/6/2017 9:57	0.15			
SR4	5/6/2017 10:17	0.15				SR12	5/6/2017 10:17	0.15			
SR4	5/6/2017 10:37	0.17				SR12	5/6/2017 10:37	0.15			
SR4	5/6/2017 10:57	0.15				SR12	5/6/2017 10:57	0.15			
SR4	5/6/2017 11:17	0.13				SR12	5/6/2017 11:17	0.14			
SR4	5/6/2017 11:37	0.13				SR12	5/6/2017 11:37	0.14			
SR4	5/6/2017 11:57	0.15				SR12	5/6/2017 11:57	0.15			
SR4	5/6/2017 12:17	0.13				SR12	5/6/2017 12:17	0.14			
SR4	5/6/2017 12:37	0.11				SR12	5/6/2017 12:37	0.14			
SR4	5/6/2017 12:57	0.12				SR12	5/6/2017 12:57	0.13			
SR4	5/6/2017 13:17	0.11				SR12	5/6/2017 13:17	0.14			
SR4	5/6/2017 13:37	0.14				SR12	5/6/2017 13:37	0.12			
SR4	5/6/2017 13:57	0.12				SR12	5/6/2017 13:57	0.13			
SR4	5/6/2017 14:17	0.14				SR12	5/6/2017 14:17	0.12			
SR4	5/6/2017 14:37	0.15				SR12	5/6/2017 14:37	0.12			
SR4	5/6/2017 14:57	0.14				SR12	5/6/2017 14:57	0.14			
SR4	5/6/2017 15:17	0.12				SR12	5/6/2017 15:17	0.15			
SR4	5/6/2017 15:37	0.15				SR12	5/6/2017 15:37	0.13			
SR4	5/6/2017 15:57	0.11				SR12	5/6/2017 15:57	0.12			
SR4	5/6/2017 16:17	0.13				SR12	5/6/2017 16:17	0.15			
SR4	5/6/2017 16:37	0.12				SR12	5/6/2017 16:37	0.12			
SR4	5/6/2017 16:57	0.11				SR12	5/6/2017 16:57	0.14			
SR4	5/6/2017 17:17	0.14				SR12	5/6/2017 17:17	0.14			
SR4	5/6/2017 17:37	0.15				SR12	5/6/2017 17:37	0.13			
SR4	5/6/2017 17:57	0.13				SR12	5/6/2017 17:57	0.14			
SR4	5/6/2017 18:17	0.11				SR12	5/6/2017 18:17	0.15			
SR4	5/6/2017 18:37	0.14				SR12	5/6/2017 18:37	0.12			
SR4	5/6/2017 18:57	0.11				SR12	5/6/2017 18:57	0.13			
SR4	5/6/2017 19:17	0.13				SR12	5/6/2017 19:17	0.14			
SR4	5/6/2017 19:37	0.15				SR12	5/6/2017 19:37	0.14			
SR4	5/6/2017 19:57	0.14				SR12	5/6/2017 19:57	0.14			
SR4	5/6/2017 20:17	0.14				SR12	5/6/2017 20:17	0.13			
SR4	5/6/2017 20:37	0.13				SR12	5/6/2017 20:37	0.13			
SR4	5/6/2017 20:57	0.12				SR12	5/6/2017 20:57	0.12			
SR4	5/6/2017 21:17	0.15				SR12	5/6/2017 21:17	0.13			
SR4	5/6/2017 21:37	0.15				SR12	5/6/2017 21:37	0.14			
SR4	5/6/2017 21:57	0.13				SR12	5/6/2017 21:57	0.14			
SR4	5/6/2017 22:17	0.11				SR12	5/6/2017 22:17	0.13			
SR4	5/6/2017 22:37	0.12				SR12	5/6/2017 22:37	0.12			
SR4	5/6/2017 22:57	0.15				SR12	5/6/2017 22:57	0.13			
SR4	5/6/2017 23:17	0.12				SR12	5/6/2017 23:17	0.12			
SR4	5/6/2017 23:37	0.12				SR12	5/6/2017 23:37	0.11			
SR4	5/6/2017 23:57	0.11				SR12	5/6/2017 23:57	0.11			

Remark: Fonts with underline: Action Level Exceedance

**Fonts in Bold with underline: Limit Level Exceedance**

Automatic Instrument calibration of NH<sub>3</sub>-N monitor was carried out during 5:57-6:37 at SR4 and SR12.











24-hr Water Quality Monitoring

Station	Timestamp	NH <sub>3</sub> (mg/L)				Station	Timestamp	NH <sub>3</sub> (mg/L)			
SR4	5/7/2017 0:17	0.12				SR12	5/7/2017 0:17	0.12			
SR4	5/7/2017 0:37	0.10				SR12	5/7/2017 0:37	0.09			
SR4	5/7/2017 0:57	0.11				SR12	5/7/2017 0:57	0.13			
SR4	5/7/2017 1:17	0.11				SR12	5/7/2017 1:17	0.13			
SR4	5/7/2017 1:37	0.11				SR12	5/7/2017 1:37	0.12			
SR4	5/7/2017 1:57	0.11				SR12	5/7/2017 1:57	0.14			
SR4	5/7/2017 2:17	0.10				SR12	5/7/2017 2:17	0.10			
SR4	5/7/2017 2:37	0.11				SR12	5/7/2017 2:37	0.14			
SR4	5/7/2017 2:57	0.09				SR12	5/7/2017 2:57	0.11			
SR4	5/7/2017 3:17	0.10				SR12	5/7/2017 3:17	0.12			
SR4	5/7/2017 3:37	0.11				SR12	5/7/2017 3:37	0.13			
SR4	5/7/2017 3:57	0.10				SR12	5/7/2017 3:57	0.14			
SR4	5/7/2017 4:17	0.11				SR12	5/7/2017 4:17	0.13			
SR4	5/7/2017 4:37	0.12				SR12	5/7/2017 4:37	0.11			
SR4	5/7/2017 4:57	0.09				SR12	5/7/2017 4:57	0.12			
SR4	5/7/2017 5:17	0.11				SR12	5/7/2017 5:17	0.14			
SR4	5/7/2017 5:37	0.09				SR12	5/7/2017 5:37	0.11			
SR4	5/7/2017 5:57	0.09				SR12	5/7/2017 5:57	0.11			
SR4						SR12					
SR4	5/7/2017 6:37	0.11				SR12	5/7/2017 6:37	0.11			
SR4	5/7/2017 6:57	0.09				SR12	5/7/2017 6:57	0.11			
SR4	5/7/2017 7:17	0.09				SR12	5/7/2017 7:17	0.11			
SR4	5/7/2017 7:37	0.10				SR12	5/7/2017 7:37	0.10			
SR4	5/7/2017 7:57	0.10				SR12	5/7/2017 7:57	0.10			
SR4	5/7/2017 8:17	0.10				SR12	5/7/2017 8:17	0.10			
SR4	5/7/2017 8:37	0.10				SR12	5/7/2017 8:37	0.10			
SR4	5/7/2017 8:57	0.08				SR12	5/7/2017 8:57	0.11			
SR4	5/7/2017 9:17	0.08				SR12	5/7/2017 9:17	0.09			
SR4	5/7/2017 9:37	0.10				SR12	5/7/2017 9:37	0.14			
SR4	5/7/2017 9:57	0.10				SR12	5/7/2017 9:57	0.10			
SR4	5/7/2017 10:17	0.09				SR12	5/7/2017 10:17	0.14			
SR4	5/7/2017 10:37	0.08				SR12	5/7/2017 10:37	0.10			
SR4	5/7/2017 10:57	0.10				SR12	5/7/2017 10:57	0.13			
SR4	5/7/2017 11:17	0.07				SR12	5/7/2017 11:17	0.13			
SR4	5/7/2017 11:37	0.07				SR12	5/7/2017 11:37	0.12			
SR4	5/7/2017 11:57	0.10				SR12	5/7/2017 11:57	0.12			
SR4	5/7/2017 12:17	0.09				SR12	5/7/2017 12:17	0.14			
SR4	5/7/2017 12:37	0.07				SR12	5/7/2017 12:37	0.11			
SR4	5/7/2017 12:57	0.07				SR12	5/7/2017 12:57	0.11			
SR4	5/7/2017 13:17	0.07				SR12	5/7/2017 13:17	0.10			
SR4	5/7/2017 13:37	0.09				SR12	5/7/2017 13:37	0.09			
SR4	5/7/2017 13:57	0.07				SR12	5/7/2017 13:57	0.12			
SR4	5/7/2017 14:17	0.09				SR12	5/7/2017 14:17	0.13			
SR4	5/7/2017 14:37	0.08				SR12	5/7/2017 14:37	0.11			
SR4	5/7/2017 14:57	0.10				SR12	5/7/2017 14:57	0.09			
SR4	5/7/2017 15:17	0.08				SR12	5/7/2017 15:17	0.09			
SR4	5/7/2017 15:37	0.07				SR12	5/7/2017 15:37	0.13			
SR4	5/7/2017 15:57	0.07				SR12	5/7/2017 15:57	0.10			
SR4	5/7/2017 16:17	0.08				SR12	5/7/2017 16:17	0.12			
SR4	5/7/2017 16:37	0.07				SR12	5/7/2017 16:37	0.13			
SR4	5/7/2017 16:57	0.08				SR12	5/7/2017 16:57	0.11			
SR4	5/7/2017 17:17	0.06				SR12	5/7/2017 17:17	0.14			
SR4	5/7/2017 17:37	0.10				SR12	5/7/2017 17:37	0.11			
SR4	5/7/2017 17:57	0.07				SR12	5/7/2017 17:57	0.09			
SR4	5/7/2017 18:17	0.06				SR12	5/7/2017 18:17	0.10			
SR4	5/7/2017 18:37	0.08				SR12	5/7/2017 18:37	0.14			
SR4	5/7/2017 18:57	0.07				SR12	5/7/2017 18:57	0.10			
SR4	5/7/2017 19:17	0.07				SR12	5/7/2017 19:17	0.12			
SR4	5/7/2017 19:37	0.06				SR12	5/7/2017 19:37	0.11			
SR4	5/7/2017 19:57	0.08				SR12	5/7/2017 19:57	0.12			
SR4	5/7/2017 20:17	0.10				SR12	5/7/2017 20:17	0.09			
SR4	5/7/2017 20:37	0.10				SR12	5/7/2017 20:37	0.11			
SR4	5/7/2017 20:57	0.10				SR12	5/7/2017 20:57	0.14			
SR4	5/7/2017 21:17	0.10				SR12	5/7/2017 21:17	0.14			
SR4	5/7/2017 21:37	0.06				SR12	5/7/2017 21:37	0.09			
SR4	5/7/2017 21:57	0.06				SR12	5/7/2017 21:57	0.13			
SR4	5/7/2017 22:17	0.10				SR12	5/7/2017 22:17	0.12			
SR4	5/7/2017 22:37	0.10				SR12	5/7/2017 22:37	0.13			
SR4	5/7/2017 22:57	0.08				SR12	5/7/2017 22:57	0.14			
SR4	5/7/2017 23:17	0.09				SR12	5/7/2017 23:17	0.13			
SR4	5/7/2017 23:37	0.06				SR12	5/7/2017 23:37	0.13			
SR4	5/7/2017 23:57	0.10				SR12	5/7/2017 23:57	0.11			

Remark: Fonts with underline: Action Level Exceedance

**Fonts in Bold with underline: Limit Level Exceedance**

Automatic Instrument calibration of NH3-N monitor was carried out during 5:57-6:37 at SR4 and SR12.











24-hr Water Quality Monitoring

Station	Timestamp	NH <sub>3</sub> (mg/L)				Station	Timestamp	NH <sub>3</sub> (mg/L)			
SR4	5/8/2017 0:17	0.07				SR12	5/8/2017 0:17	0.11			
SR4	5/8/2017 0:37	0.08				SR12	5/8/2017 0:37	0.11			
SR4	5/8/2017 0:57	0.10				SR12	5/8/2017 0:57	0.12			
SR4	5/8/2017 1:17	0.10				SR12	5/8/2017 1:17	0.11			
SR4	5/8/2017 1:37	0.08				SR12	5/8/2017 1:37	0.10			
SR4	5/8/2017 1:57	0.06				SR12	5/8/2017 1:57	0.10			
SR4	5/8/2017 2:17	0.09				SR12	5/8/2017 2:17	0.14			
SR4	5/8/2017 2:37	0.07				SR12	5/8/2017 2:37	0.12			
SR4	5/8/2017 2:57	0.08				SR12	5/8/2017 2:57	0.11			
SR4	5/8/2017 3:17	0.09				SR12	5/8/2017 3:17	0.09			
SR4	5/8/2017 3:37	0.08				SR12	5/8/2017 3:37	0.14			
SR4	5/8/2017 3:57	0.07				SR12	5/8/2017 3:57	0.12			
SR4	5/8/2017 4:17	0.10				SR12	5/8/2017 4:17	0.09			
SR4	5/8/2017 4:37	0.07				SR12	5/8/2017 4:37	0.09			
SR4	5/8/2017 4:57	0.06				SR12	5/8/2017 4:57	0.10			
SR4	5/8/2017 5:17	0.09				SR12	5/8/2017 5:17	0.14			
SR4	5/8/2017 5:37	0.09				SR12	5/8/2017 5:37	0.09			
SR4	5/8/2017 5:57	0.09				SR12	5/8/2017 5:57	0.12			
SR4						SR12					
SR4	5/8/2017 6:37	0.07				SR12	5/8/2017 6:37	0.14			
SR4	5/8/2017 6:57	0.07				SR12	5/8/2017 6:57	0.14			
SR4	5/8/2017 7:17	0.09				SR12	5/8/2017 7:17	0.12			
SR4	5/8/2017 7:37	0.06				SR12	5/8/2017 7:37	0.13			
SR4	5/8/2017 7:57	0.06				SR12	5/8/2017 7:57	0.12			
SR4	5/8/2017 8:17	0.09				SR12	5/8/2017 8:17	0.14			
SR4	5/8/2017 8:37	0.07				SR12	5/8/2017 8:37	0.11			
SR4	5/8/2017 8:57	0.08				SR12	5/8/2017 8:57	0.14			
SR4	5/8/2017 9:17	0.10				SR12	5/8/2017 9:17	0.09			
SR4	5/8/2017 9:37	0.09				SR12					
SR4	5/8/2017 9:57	0.06				SR12					
SR4	5/8/2017 10:17	0.07				SR12					
SR4	5/8/2017 10:37	0.08				SR12					
SR4	5/8/2017 10:57	0.08				SR12					
SR4	5/8/2017 11:17	0.07				SR12	5/8/2017 11:17	0.10			
SR4	5/8/2017 11:37	0.08				SR12	5/8/2017 11:37	0.11			
SR4	5/8/2017 11:57	0.06				SR12	5/8/2017 11:57	0.09			
SR4						SR12	5/8/2017 12:17	0.12			
SR4						SR12	5/8/2017 12:37	0.11			
SR4						SR12	5/8/2017 12:57	0.09			
SR4						SR12	5/8/2017 13:17	0.13			
SR4						SR12	5/8/2017 13:37	0.10			
SR4	5/8/2017 13:57	0.06				SR12	5/8/2017 13:57	0.10			
SR4	5/8/2017 14:17	0.06				SR12	5/8/2017 14:17	0.13			
SR4	5/8/2017 14:37	0.06				SR12	5/8/2017 14:37	0.13			
SR4	5/8/2017 14:57	0.06				SR12	5/8/2017 14:57	0.10			
SR4	5/8/2017 15:17	0.09				SR12	5/8/2017 15:17	0.14			
SR4	5/8/2017 15:37	0.09				SR12	5/8/2017 15:37	0.12			
SR4	5/8/2017 15:57	0.07				SR12	5/8/2017 15:57	0.09			
SR4	5/8/2017 16:17	0.06				SR12	5/8/2017 16:17	0.14			
SR4	5/8/2017 16:37	0.06				SR12	5/8/2017 16:37	0.13			
SR4	5/8/2017 16:57	0.07				SR12	5/8/2017 16:57	0.14			
SR4	5/8/2017 17:17	0.08				SR12	5/8/2017 17:17	0.12			
SR4	5/8/2017 17:37	0.09				SR12	5/8/2017 17:37	0.11			
SR4	5/8/2017 17:57	0.05				SR12	5/8/2017 17:57	0.13			
SR4	5/8/2017 18:17	0.06				SR12	5/8/2017 18:17	0.11			
SR4	5/8/2017 18:37	0.06				SR12	5/8/2017 18:37	0.11			
SR4	5/8/2017 18:57	0.06				SR12	5/8/2017 18:57	0.11			
SR4	5/8/2017 19:17	0.06				SR12	5/8/2017 19:17	0.11			
SR4	5/8/2017 19:37	0.06				SR12	5/8/2017 19:37	0.09			
SR4	5/8/2017 19:57	0.05				SR12	5/8/2017 19:57	0.13			
SR4	5/8/2017 20:17	0.05				SR12	5/8/2017 20:17	0.09			
SR4	5/8/2017 20:37	0.08				SR12	5/8/2017 20:37	0.13			
SR4	5/8/2017 20:57	0.08				SR12	5/8/2017 20:57	0.10			
SR4	5/8/2017 21:17	0.05				SR12	5/8/2017 21:17	0.13			
SR4	5/8/2017 21:37	0.08				SR12	5/8/2017 21:37	0.09			
SR4	5/8/2017 21:57	0.07				SR12	5/8/2017 21:57	0.10			
SR4	5/8/2017 22:17	0.08				SR12	5/8/2017 22:17	0.14			
SR4	5/8/2017 22:37	0.08				SR12	5/8/2017 22:37	0.10			
SR4	5/8/2017 22:57	0.07				SR12	5/8/2017 22:57	0.12			
SR4	5/8/2017 23:17	0.05				SR12	5/8/2017 23:17	0.11			
SR4	5/8/2017 23:37	0.05				SR12	5/8/2017 23:37	0.14			
SR4	5/8/2017 23:57	0.06				SR12	5/8/2017 23:57	0.10			

Remark: Fonts with underline: Action Level Exceedance

**Fonts in Bold with underline: Limit Level Exceedance**

Automatic Instrument calibration of NH3-N monitor was carried out during 5:57-6:37 at SR4 and SR12.

SR4 monitoring station was under maintenance during 12:11-13:26.

SR12 monitoring station was under maintenance during 9:26-10:46.

SR13 monitoring station was under maintenance during 15:15-15:35.









24-hr Water Quality Monitoring

Station	Timestamp	NH <sub>3</sub> (mg/L)				Station	Timestamp	NH <sub>3</sub> (mg/L)			
SR4	5/9/2017 0:17	0.07				SR12	5/9/2017 0:17	0.11			
SR4	5/9/2017 0:37	0.08				SR12	5/9/2017 0:37	0.10			
SR4	5/9/2017 0:57	0.05				SR12	5/9/2017 0:57	0.12			
SR4	5/9/2017 1:17	0.05				SR12	5/9/2017 1:17	0.13			
SR4	5/9/2017 1:37	0.07				SR12	5/9/2017 1:37	0.09			
SR4	5/9/2017 1:57	0.05				SR12	5/9/2017 1:57	0.10			
SR4	5/9/2017 2:17	0.07				SR12	5/9/2017 2:17	0.11			
SR4	5/9/2017 2:37	0.05				SR12	5/9/2017 2:37	0.10			
SR4	5/9/2017 2:57	0.05				SR12	5/9/2017 2:57	0.13			
SR4	5/9/2017 3:17	0.06				SR12	5/9/2017 3:17	0.09			
SR4	5/9/2017 3:37	0.07				SR12	5/9/2017 3:37	0.12			
SR4	5/9/2017 3:57	0.08				SR12	5/9/2017 3:57	0.09			
SR4	5/9/2017 4:17	0.05				SR12	5/9/2017 4:17	0.09			
SR4	5/9/2017 4:37	0.08				SR12	5/9/2017 4:37	0.10			
SR4	5/9/2017 4:57	0.07				SR12	5/9/2017 4:57	0.12			
SR4	5/9/2017 5:17	0.08				SR12	5/9/2017 5:17	0.14			
SR4	5/9/2017 5:37	0.05				SR12	5/9/2017 5:37	0.14			
SR4	5/9/2017 5:57	0.07				SR12	5/9/2017 5:57	0.11			
SR4						SR12					
SR4	5/9/2017 6:37	0.05				SR12	5/9/2017 6:37	0.12			
SR4	5/9/2017 6:57	0.08				SR12	5/9/2017 6:57	0.14			
SR4	5/9/2017 7:17	0.07				SR12	5/9/2017 7:17	0.14			
SR4	5/9/2017 7:37	0.07				SR12	5/9/2017 7:37	0.13			
SR4	5/9/2017 7:57	0.07				SR12	5/9/2017 7:57	0.12			
SR4	5/9/2017 8:17	0.05				SR12	5/9/2017 8:17	0.14			
SR4	5/9/2017 8:37	0.08				SR12	5/9/2017 8:37	0.13			
SR4	5/9/2017 8:57	0.05				SR12	5/9/2017 8:57	0.11			
SR4	5/9/2017 9:17	0.05				SR12	5/9/2017 9:17	0.11			
SR4	5/9/2017 9:37	0.06				SR12	5/9/2017 9:37	0.09			
SR4	5/9/2017 9:57	0.06				SR12	5/9/2017 9:57	0.13			
SR4	5/9/2017 10:17	0.07				SR12	5/9/2017 10:17	0.10			
SR4	5/9/2017 10:37	0.05				SR12	5/9/2017 10:37	0.11			
SR4	5/9/2017 10:57	0.05				SR12	5/9/2017 10:57	0.11			
SR4	5/9/2017 11:17	0.07				SR12	5/9/2017 11:17	0.09			
SR4	5/9/2017 11:37	0.07				SR12	5/9/2017 11:37	0.12			
SR4	5/9/2017 11:57	0.07				SR12	5/9/2017 11:57	0.14			
SR4	5/9/2017 12:17	0.06				SR12	5/9/2017 12:17	0.09			
SR4	5/9/2017 12:37	0.07				SR12	5/9/2017 12:37	0.09			
SR4	5/9/2017 12:57	0.08				SR12	5/9/2017 12:57	0.13			
SR4	5/9/2017 13:17	0.08				SR12	5/9/2017 13:17	0.12			
SR4	5/9/2017 13:37	0.09				SR12	5/9/2017 13:37	0.12			
SR4	5/9/2017 13:57	0.07				SR12	5/9/2017 13:57	0.11			
SR4	5/9/2017 14:17	0.08				SR12	5/9/2017 14:17	0.09			
SR4	5/9/2017 14:37	0.08				SR12	5/9/2017 14:37	0.12			
SR4	5/9/2017 14:57	0.08				SR12	5/9/2017 14:57	0.13			
SR4	5/9/2017 15:17	0.06				SR12	5/9/2017 15:17	0.13			
SR4	5/9/2017 15:37	0.07				SR12	5/9/2017 15:37	0.13			
SR4	5/9/2017 15:57	0.09				SR12	5/9/2017 15:57	0.11			
SR4	5/9/2017 16:17	0.07				SR12	5/9/2017 16:17	0.11			
SR4	5/9/2017 16:37	0.07				SR12	5/9/2017 16:37	0.11			
SR4	5/9/2017 16:57	0.08				SR12	5/9/2017 16:57	0.14			
SR4	5/9/2017 17:17	0.08				SR12	5/9/2017 17:17	0.14			
SR4	5/9/2017 17:37	0.08				SR12	5/9/2017 17:37	0.12			
SR4	5/9/2017 17:57	0.06				SR12	5/9/2017 17:57	0.10			
SR4	5/9/2017 18:17	0.09				SR12	5/9/2017 18:17	0.14			
SR4	5/9/2017 18:37	0.09				SR12	5/9/2017 18:37	0.11			
SR4	5/9/2017 18:57	0.08				SR12	5/9/2017 18:57	0.13			
SR4	5/9/2017 19:17	0.09				SR12	5/9/2017 19:17	0.13			
SR4	5/9/2017 19:37	0.07				SR12	5/9/2017 19:37	0.09			
SR4	5/9/2017 19:57	0.06				SR12	5/9/2017 19:57	0.09			
SR4	5/9/2017 20:17	0.08				SR12	5/9/2017 20:17	0.09			
SR4	5/9/2017 20:37	0.06				SR12	5/9/2017 20:37	0.09			
SR4	5/9/2017 20:57	0.09				SR12	5/9/2017 20:57	0.11			
SR4	5/9/2017 21:17	0.09				SR12	5/9/2017 21:17	0.13			
SR4	5/9/2017 21:37	0.06				SR12	5/9/2017 21:37	0.12			
SR4	5/9/2017 21:57	0.08				SR12	5/9/2017 21:57	0.10			
SR4	5/9/2017 22:17	0.06				SR12	5/9/2017 22:17	0.11			
SR4	5/9/2017 22:37	0.06				SR12	5/9/2017 22:37	0.09			
SR4	5/9/2017 22:57	0.09				SR12	5/9/2017 22:57	0.10			
SR4	5/9/2017 23:17	0.07				SR12	5/9/2017 23:17	0.12			
SR4	5/9/2017 23:37	0.09				SR12	5/9/2017 23:37	0.13			
SR4	5/9/2017 23:57	0.07				SR12	5/9/2017 23:57	0.09			

Remark: Fonts with underline: Action Level Exceedance

**Fonts in Bold with underline: Limit Level Exceedance**

Automatic Instrument calibration of NH3-N monitor was carried out during 5:57-6:37 at SR4 and SR12. SR5 monitoring station was under maintenance during 12:10:12:35.











24-hr Water Quality Monitoring

Station	Timestamp	NH <sub>3</sub> (mg/L)				Station	Timestamp	NH <sub>3</sub> (mg/L)			
SR4	5/10/2017 0:17	0.07				SR12	5/10/2017 0:17	0.13			
SR4	5/10/2017 0:37	0.07				SR12	5/10/2017 0:37	0.12			
SR4	5/10/2017 0:57	0.08				SR12	5/10/2017 0:57	0.11			
SR4	5/10/2017 1:17	0.06				SR12	5/10/2017 1:17	0.14			
SR4	5/10/2017 1:37	0.09				SR12	5/10/2017 1:37	0.09			
SR4	5/10/2017 1:57	0.08				SR12	5/10/2017 1:57	0.09			
SR4	5/10/2017 2:17	0.07				SR12	5/10/2017 2:17	0.13			
SR4	5/10/2017 2:37	0.07				SR12	5/10/2017 2:37	0.14			
SR4	5/10/2017 2:57	0.09				SR12	5/10/2017 2:57	0.09			
SR4	5/10/2017 3:17	0.07				SR12	5/10/2017 3:17	0.09			
SR4	5/10/2017 3:37	0.09				SR12	5/10/2017 3:37	0.12			
SR4	5/10/2017 3:57	0.06				SR12	5/10/2017 3:57	0.12			
SR4	5/10/2017 4:17	0.08				SR12	5/10/2017 4:17	0.10			
SR4	5/10/2017 4:37	0.06				SR12	5/10/2017 4:37	0.14			
SR4	5/10/2017 4:57	0.08				SR12	5/10/2017 4:57	0.10			
SR4	5/10/2017 5:17	0.09				SR12	5/10/2017 5:17	0.11			
SR4	5/10/2017 5:37	0.07				SR12	5/10/2017 5:37	0.09			
SR4	5/10/2017 5:57	0.09				SR12	5/10/2017 5:57	0.12			
SR4						SR12					
SR4	5/10/2017 6:37	0.07				SR12	5/10/2017 6:37	0.13			
SR4	5/10/2017 6:57	0.07				SR12	5/10/2017 6:57	0.09			
SR4	5/10/2017 7:17	0.08				SR12	5/10/2017 7:17	0.13			
SR4	5/10/2017 7:37	0.10				SR12	5/10/2017 7:37	0.14			
SR4	5/10/2017 7:57	0.09				SR12	5/10/2017 7:57	0.11			
SR4	5/10/2017 8:17	0.07				SR12	5/10/2017 8:17	0.11			
SR4	5/10/2017 8:37	0.09				SR12	5/10/2017 8:37	0.10			
SR4	5/10/2017 8:57	0.08				SR12	5/10/2017 8:57	0.10			
SR4	5/10/2017 9:17	0.07				SR12	5/10/2017 9:17	0.13			
SR4	5/10/2017 9:37	0.10				SR12					
SR4	5/10/2017 9:57	0.07				SR12					
SR4	5/10/2017 10:17	0.09				SR12					
SR4	5/10/2017 10:37	0.10				SR12					
SR4	5/10/2017 10:57	0.10				SR12					
SR4	5/10/2017 11:17	0.09				SR12	5/10/2017 11:17	0.12			
SR4	5/10/2017 11:37	0.09				SR12	5/10/2017 11:37	0.12			
SR4	5/10/2017 11:57	0.09				SR12	5/10/2017 11:57	0.09			
SR4	5/10/2017 12:17	0.07				SR12	5/10/2017 12:17	0.12			
SR4	5/10/2017 12:37	0.08				SR12	5/10/2017 12:37	0.12			
SR4	5/10/2017 12:57	0.07				SR12	5/10/2017 12:57	0.13			
SR4						SR12	5/10/2017 13:17	0.14			
SR4						SR12	5/10/2017 13:37	0.13			
SR4						SR12	5/10/2017 13:57	0.14			
SR4						SR12	5/10/2017 14:17	0.12			
SR4						SR12	5/10/2017 14:37	0.13			
SR4	5/10/2017 14:57	0.08				SR12	5/10/2017 14:57	0.10			
SR4	5/10/2017 15:17	0.07				SR12	5/10/2017 15:17	0.14			
SR4	5/10/2017 15:37	0.09				SR12	5/10/2017 15:37	0.14			
SR4	5/10/2017 15:57	0.10				SR12	5/10/2017 15:57	0.14			
SR4	5/10/2017 16:17	0.10				SR12	5/10/2017 16:17	0.12			
SR4	5/10/2017 16:37	0.09				SR12	5/10/2017 16:37	0.14			
SR4	5/10/2017 16:57	0.08				SR12	5/10/2017 16:57	0.09			
SR4	5/10/2017 17:17	0.07				SR12	5/10/2017 17:17	0.12			
SR4	5/10/2017 17:37	0.09				SR12	5/10/2017 17:37	0.12			
SR4	5/10/2017 17:57	0.09				SR12	5/10/2017 17:57	0.10			
SR4	5/10/2017 18:17	0.09				SR12	5/10/2017 18:17	0.13			
SR4	5/10/2017 18:37	0.08				SR12	5/10/2017 18:37	0.09			
SR4	5/10/2017 18:57	0.08				SR12	5/10/2017 18:57	0.13			
SR4	5/10/2017 19:17	0.08				SR12	5/10/2017 19:17	0.13			
SR4	5/10/2017 19:37	0.08				SR12	5/10/2017 19:37	0.10			
SR4	5/10/2017 19:57	0.07				SR12	5/10/2017 19:57	0.11			
SR4	5/10/2017 20:17	0.07				SR12	5/10/2017 20:17	0.11			
SR4	5/10/2017 20:37	0.07				SR12	5/10/2017 20:37	0.09			
SR4	5/10/2017 20:57	0.08				SR12	5/10/2017 20:57	0.09			
SR4	5/10/2017 21:17	0.08				SR12	5/10/2017 21:17	0.11			
SR4	5/10/2017 21:37	0.10				SR12	5/10/2017 21:37	0.14			
SR4	5/10/2017 21:57	0.07				SR12	5/10/2017 21:57	0.11			
SR4	5/10/2017 22:17	0.09				SR12	5/10/2017 22:17	0.09			
SR4	5/10/2017 22:37	0.07				SR12	5/10/2017 22:37	0.14			
SR4	5/10/2017 22:57	0.09				SR12	5/10/2017 22:57	0.14			
SR4	5/10/2017 23:17	0.10				SR12	5/10/2017 23:17	0.12			
SR4	5/10/2017 23:37	0.10				SR12	5/10/2017 23:37	0.16			
SR4	5/10/2017 23:57	0.12				SR12	5/10/2017 23:57	0.14			

Remark: Fonts with underline: Action Level Exceedance

**Fonts in Bold with underline: Limit Level Exceedance**

Automatic Instrument calibration of NH<sub>3</sub>-N monitor was carried out during 5:57-6:37 at SR4 and SR12.

SR4 monitoring station was under maintenance during 13:11-14:26.

SR12 monitoring station was under maintenance during 9:26-10:46.









24-hr Water Quality Monitoring

Station	Timestamp	NH <sub>3</sub> (mg/L)				Station	Timestamp	NH <sub>3</sub> (mg/L)			
SR4	5/11/2017 0:17	0.11				SR12	5/11/2017 0:17	0.15			
SR4	5/11/2017 0:37	0.12				SR12	5/11/2017 0:37	0.14			
SR4	5/11/2017 0:57	0.09				SR12	5/11/2017 0:57	0.17			
SR4	5/11/2017 1:17	0.10				SR12	5/11/2017 1:17	0.15			
SR4	5/11/2017 1:37	0.11				SR12	5/11/2017 1:37	0.15			
SR4	5/11/2017 1:57	0.12				SR12	5/11/2017 1:57	0.13			
SR4	5/11/2017 2:17	0.09				SR12	5/11/2017 2:17	0.12			
SR4	5/11/2017 2:37	0.09				SR12	5/11/2017 2:37	0.16			
SR4	5/11/2017 2:57	0.10				SR12	5/11/2017 2:57	0.15			
SR4	5/11/2017 3:17	0.10				SR12	5/11/2017 3:17	0.14			
SR4	5/11/2017 3:37	0.11				SR12	5/11/2017 3:37	0.15			
SR4	5/11/2017 3:57	0.10				SR12	5/11/2017 3:57	0.14			
SR4	5/11/2017 4:17	0.11				SR12	5/11/2017 4:17	0.17			
SR4	5/11/2017 4:37	0.09				SR12	5/11/2017 4:37	0.13			
SR4	5/11/2017 4:57	0.11				SR12	5/11/2017 4:57	0.12			
SR4	5/11/2017 5:17	0.09				SR12	5/11/2017 5:17	0.13			
SR4	5/11/2017 5:37	0.10				SR12	5/11/2017 5:37	0.12			
SR4	5/11/2017 5:57	0.11				SR12	5/11/2017 5:57	0.17			
SR4						SR12					
SR4	5/11/2017 6:37	0.12				SR12	5/11/2017 6:37	0.12			
SR4	5/11/2017 6:57	0.10				SR12	5/11/2017 6:57	0.15			
SR4	5/11/2017 7:17	0.09				SR12	5/11/2017 7:17	0.14			
SR4	5/11/2017 7:37	0.10				SR12	5/11/2017 7:37	0.13			
SR4	5/11/2017 7:57	0.12				SR12	5/11/2017 7:57	0.17			
SR4	5/11/2017 8:17	0.09				SR12	5/11/2017 8:17	0.12			
SR4	5/11/2017 8:37	0.12				SR12	5/11/2017 8:37	0.15			
SR4	5/11/2017 8:57	0.10				SR12	5/11/2017 8:57	0.15			
SR4	5/11/2017 9:17	0.11				SR12	5/11/2017 9:17	0.14			
SR4	5/11/2017 9:37	0.09				SR12	5/11/2017 9:37	0.16			
SR4	5/11/2017 9:57	0.10				SR12	5/11/2017 9:57	0.16			
SR4	5/11/2017 10:17	0.10				SR12	5/11/2017 10:17	0.17			
SR4	5/11/2017 10:37	0.11				SR12	5/11/2017 10:37	0.14			
SR4	5/11/2017 10:57	0.11				SR12	5/11/2017 10:57	0.16			
SR4	5/11/2017 11:17	0.12				SR12	5/11/2017 11:17	0.16			
SR4	5/11/2017 11:37	0.10				SR12	5/11/2017 11:37	0.16			
SR4	5/11/2017 11:57	0.11				SR12	5/11/2017 11:57	0.13			
SR4	5/11/2017 12:17	0.11				SR12	5/11/2017 12:17	0.16			
SR4	5/11/2017 12:37	0.11				SR12	5/11/2017 12:37	0.13			
SR4	5/11/2017 12:57	0.11				SR12	5/11/2017 12:57	0.16			
SR4	5/11/2017 13:17	0.09				SR12	5/11/2017 13:17	0.16			
SR4	5/11/2017 13:37	0.09				SR12	5/11/2017 13:37	0.13			
SR4	5/11/2017 13:57	0.09				SR12	5/11/2017 13:57	0.12			
SR4	5/11/2017 14:17	0.12				SR12	5/11/2017 14:17	0.15			
SR4	5/11/2017 14:37	0.10				SR12	5/11/2017 14:37	0.14			
SR4	5/11/2017 14:57	0.12				SR12	5/11/2017 14:57	0.14			
SR4	5/11/2017 15:17	0.13				SR12	5/11/2017 15:17	0.16			
SR4	5/11/2017 15:37	0.12				SR12	5/11/2017 15:37	0.15			
SR4	5/11/2017 15:57	0.10				SR12	5/11/2017 15:57	0.17			
SR4	5/11/2017 16:17	0.12				SR12	5/11/2017 16:17	0.16			
SR4	5/11/2017 16:37	0.11				SR12	5/11/2017 16:37	0.18			
SR4	5/11/2017 16:57	0.12				SR12	5/11/2017 16:57	0.16			
SR4	5/11/2017 17:17	0.14				SR12	5/11/2017 17:17	0.14			
SR4	5/11/2017 17:37	0.10				SR12	5/11/2017 17:37	0.15			
SR4	5/11/2017 17:57	0.14				SR12	5/11/2017 17:57	0.16			
SR4	5/11/2017 18:17	0.12				SR12	5/11/2017 18:17	0.18			
SR4	5/11/2017 18:37	0.13				SR12	5/11/2017 18:37	0.14			
SR4	5/11/2017 18:57	0.13				SR12	5/11/2017 18:57	0.18			
SR4	5/11/2017 19:17	0.10				SR12	5/11/2017 19:17	0.15			
SR4	5/11/2017 19:37	0.14				SR12	5/11/2017 19:37	0.17			
SR4	5/11/2017 19:57	0.13				SR12	5/11/2017 19:57	0.18			
SR4	5/11/2017 20:17	0.13				SR12	5/11/2017 20:17	0.15			
SR4	5/11/2017 20:37	0.13				SR12	5/11/2017 20:37	0.16			
SR4	5/11/2017 20:57	0.11				SR12	5/11/2017 20:57	0.14			
SR4	5/11/2017 21:17	0.14				SR12	5/11/2017 21:17	0.18			
SR4	5/11/2017 21:37	0.10				SR12	5/11/2017 21:37	0.17			
SR4	5/11/2017 21:57	0.14				SR12	5/11/2017 21:57	0.18			
SR4	5/11/2017 22:17	0.14				SR12	5/11/2017 22:17	0.16			
SR4	5/11/2017 22:37	0.12				SR12	5/11/2017 22:37	0.18			
SR4	5/11/2017 22:57	0.10				SR12	5/11/2017 22:57	0.14			
SR4	5/11/2017 23:17	0.12				SR12	5/11/2017 23:17	0.17			
SR4	5/11/2017 23:37	0.13				SR12	5/11/2017 23:37	0.17			
SR4	5/11/2017 23:57	0.11				SR12	5/11/2017 23:57	0.15			

Remark: Fonts with underline: Action Level Exceedance

**Fonts in Bold with underline: Limit Level Exceedance**

Automatic Instrument calibration of NH<sub>3</sub>-N monitor was carried out during 5:57-6:37 at SR4 and SR12. SR5 monitoring station was under maintenance during 10:15-10:35.











24-hr Water Quality Monitoring

Station	Timestamp	NH <sub>3</sub> (mg/L)				Station	Timestamp	NH <sub>3</sub> (mg/L)			
SR4	5/12/2017 0:17	0.11				SR12	5/12/2017 0:17	0.18			
SR4	5/12/2017 0:37	0.14				SR12	5/12/2017 0:37	0.14			
SR4	5/12/2017 0:57	0.13				SR12	5/12/2017 0:57	0.15			
SR4	5/12/2017 1:17	0.14				SR12	5/12/2017 1:17	0.17			
SR4	5/12/2017 1:37	0.14				SR12	5/12/2017 1:37	0.18			
SR4	5/12/2017 1:57	0.14				SR12	5/12/2017 1:57	0.14			
SR4	5/12/2017 2:17	0.14				SR12	5/12/2017 2:17	0.18			
SR4	5/12/2017 2:37	0.13				SR12	5/12/2017 2:37	0.18			
SR4	5/12/2017 2:57	0.10				SR12	5/12/2017 2:57	0.17			
SR4	5/12/2017 3:17	0.13				SR12	5/12/2017 3:17	0.17			
SR4	5/12/2017 3:37	0.10				SR12	5/12/2017 3:37	0.17			
SR4	5/12/2017 3:57	0.10				SR12	5/12/2017 3:57	0.18			
SR4	5/12/2017 4:17	0.13				SR12	5/12/2017 4:17	0.15			
SR4	5/12/2017 4:37	0.10				SR12	5/12/2017 4:37	0.15			
SR4	5/12/2017 4:57	0.10				SR12	5/12/2017 4:57	0.15			
SR4	5/12/2017 5:17	0.12				SR12	5/12/2017 5:17	0.18			
SR4	5/12/2017 5:37	0.14				SR12	5/12/2017 5:37	0.17			
SR4	5/12/2017 5:57	0.13				SR12	5/12/2017 5:57	0.14			
SR4						SR12					
SR4	5/12/2017 6:37	0.10				SR12	5/12/2017 6:37	0.14			
SR4	5/12/2017 6:57	0.11				SR12	5/12/2017 6:57	0.16			
SR4	5/12/2017 7:17	0.10				SR12	5/12/2017 7:17	0.15			
SR4	5/12/2017 7:37	0.12				SR12	5/12/2017 7:37	0.17			
SR4	5/12/2017 7:57	0.14				SR12	5/12/2017 7:57	0.17			
SR4	5/12/2017 8:17	0.14				SR12	5/12/2017 8:17	0.17			
SR4	5/12/2017 8:37	0.12				SR12	5/12/2017 8:37	0.17			
SR4	5/12/2017 8:57	0.12				SR12	5/12/2017 8:57	0.15			
SR4	5/12/2017 9:17	0.14				SR12	5/12/2017 9:17	0.17			
SR4	5/12/2017 9:37	0.14				SR12	5/12/2017 9:37	0.17			
SR4	5/12/2017 9:57	0.15				SR12	5/12/2017 9:57	0.17			
SR4	5/12/2017 10:17	0.14				SR12	5/12/2017 10:17	0.15			
SR4	5/12/2017 10:37	0.13				SR12	5/12/2017 10:37	0.14			
SR4	5/12/2017 10:57	0.15				SR12	5/12/2017 10:57	0.14			
SR4	5/12/2017 11:17	0.15				SR12	5/12/2017 11:17	0.14			
SR4	5/12/2017 11:37	0.13				SR12	5/12/2017 11:37	0.14			
SR4	5/12/2017 11:57	0.14				SR12	5/12/2017 11:57	0.18			
SR4	5/12/2017 12:17	0.13				SR12	5/12/2017 12:17	0.18			
SR4	5/12/2017 12:37	0.13				SR12	5/12/2017 12:37	0.15			
SR4	5/12/2017 12:57	0.14				SR12	5/12/2017 12:57	0.14			
SR4	5/12/2017 13:17	0.14				SR12	5/12/2017 13:17	0.15			
SR4	5/12/2017 13:37	0.13				SR12	5/12/2017 13:37	0.17			
SR4	5/12/2017 13:57	0.15				SR12	5/12/2017 13:57	0.15			
SR4	5/12/2017 14:17	0.15				SR12	5/12/2017 14:17	0.15			
SR4	5/12/2017 14:37	0.16				SR12	5/12/2017 14:37	0.18			
SR4	5/12/2017 14:57	0.13				SR12	5/12/2017 14:57	0.14			
SR4	5/12/2017 15:17	0.16				SR12	5/12/2017 15:17	0.14			
SR4	5/12/2017 15:37	0.17				SR12	5/12/2017 15:37	0.16			
SR4	5/12/2017 15:57	0.15				SR12	5/12/2017 15:57	0.15			
SR4	5/12/2017 16:17	0.17				SR12	5/12/2017 16:17	0.15			
SR4	5/12/2017 16:37	0.13				SR12	5/12/2017 16:37	0.15			
SR4	5/12/2017 16:57	0.13				SR12	5/12/2017 16:57	0.15			
SR4	5/12/2017 17:17	0.15				SR12	5/12/2017 17:17	0.16			
SR4	5/12/2017 17:37	0.15				SR12	5/12/2017 17:37	0.18			
SR4	5/12/2017 17:57	0.14				SR12	5/12/2017 17:57	0.16			
SR4	5/12/2017 18:17	0.13				SR12	5/12/2017 18:17	0.14			
SR4	5/12/2017 18:37	0.17				SR12	5/12/2017 18:37	0.16			
SR4	5/12/2017 18:57	0.15				SR12	5/12/2017 18:57	0.17			
SR4	5/12/2017 19:17	0.16				SR12	5/12/2017 19:17	0.18			
SR4	5/12/2017 19:37	0.15				SR12	5/12/2017 19:37	0.16			
SR4	5/12/2017 19:57	0.16				SR12	5/12/2017 19:57	0.17			
SR4	5/12/2017 20:17	0.16				SR12	5/12/2017 20:17	0.14			
SR4	5/12/2017 20:37	0.16				SR12	5/12/2017 20:37	0.14			
SR4	5/12/2017 20:57	0.15				SR12	5/12/2017 20:57	0.16			
SR4	5/12/2017 21:17	0.16				SR12	5/12/2017 21:17	0.14			
SR4	5/12/2017 21:37	0.13				SR12	5/12/2017 21:37	0.18			
SR4	5/12/2017 21:57	0.15				SR12	5/12/2017 21:57	0.15			
SR4	5/12/2017 22:17	0.16				SR12	5/12/2017 22:17	0.14			
SR4	5/12/2017 22:37	0.14				SR12	5/12/2017 22:37	0.16			
SR4	5/12/2017 22:57	0.14				SR12	5/12/2017 22:57	0.18			
SR4	5/12/2017 23:17	0.16				SR12	5/12/2017 23:17	0.16			
SR4	5/12/2017 23:37	0.14				SR12	5/12/2017 23:37	0.15			
SR4	5/12/2017 23:57	0.17				SR12	5/12/2017 23:57	0.15			

Remark: Fonts with underline: Action Level Exceedance

**Fonts in Bold with underline: Limit Level Exceedance**

Automatic Instrument calibration of NH3-N monitor was carried out during 5:57-6:37 at SR4 and SR12. SR13 monitoring station was under maintenance during 14:55-15:15.









24-hr Water Quality Monitoring

Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)
SR13	5/13/2017 0:00	26.83	62.5	5.00	5.2	SR13	5/13/2017 6:00	26.44	65.5	5.24	7.7	SR13	5/13/2017 12:00	26.48	65.1	5.21	5.8	SR13	5/13/2017 18:00	27.47	62.8	5.02	5.4
SR13	5/13/2017 0:05	26.80	59.8	4.78	6.0	SR13	5/13/2017 6:05	26.44	63.1	5.05	7.2	SR13	5/13/2017 12:05	26.49	61.4	4.91	7.9	SR13	5/13/2017 18:05	27.40	61.6	4.93	4.4
SR13	5/13/2017 0:10	26.75	63.8	5.10	6.2	SR13	5/13/2017 6:10	26.39	59.8	4.78	4.7	SR13	5/13/2017 12:10	26.50	63.9	5.11	7.5	SR13	5/13/2017 18:10	27.35	64.6	5.17	7.4
SR13	5/13/2017 0:15	26.73	61.8	4.94	6.7	SR13	5/13/2017 6:15	26.39	62.1	4.97	6.1	SR13	5/13/2017 12:15	26.52	62.9	5.03	6.0	SR13	5/13/2017 18:15	27.38	65.3	5.22	4.3
SR13	5/13/2017 0:20	26.72	65.9	5.27	4.9	SR13	5/13/2017 6:20	26.44	65.3	5.22	3.7	SR13	5/13/2017 12:20	26.53	62.6	5.01	3.9	SR13	5/13/2017 18:20	27.47	60.4	4.83	4.2
SR13	5/13/2017 0:25	26.71	63.1	5.05	7.2	SR13	5/13/2017 6:25	26.46	64.5	5.16	5.5	SR13	5/13/2017 12:25	26.55	63.8	5.10	7.8	SR13	5/13/2017 18:25	27.58	60.9	4.87	7.8
SR13	5/13/2017 0:30	26.72	59.9	4.79	6.2	SR13	5/13/2017 6:30	26.46	61.5	4.92	6.3	SR13	5/13/2017 12:30	26.54	65.0	5.20	4.8	SR13	5/13/2017 18:30	27.58	63.1	5.05	4.1
SR13	5/13/2017 0:35	26.74	60.6	4.85	4.5	SR13	5/13/2017 6:35	26.47	60.4	4.83	3.7	SR13	5/13/2017 12:35	26.50	65.5	5.24	5.6	SR13	5/13/2017 18:35	27.36	61.1	4.89	3.7
SR13	5/13/2017 0:40	26.74	65.5	5.24	6.2	SR13	5/13/2017 6:40	26.47	63.6	5.09	7.4	SR13	5/13/2017 12:40	26.49	60.3	4.82	7.5	SR13	5/13/2017 18:40	27.62	62.0	4.96	4.3
SR13	5/13/2017 0:45	26.74	63.5	5.08	6.7	SR13	5/13/2017 6:45	26.50	63.0	5.04	4.8	SR13	5/13/2017 12:45	26.48	63.9	5.11	7.5	SR13	5/13/2017 18:45	27.63	66.3	5.30	6.7
SR13	5/13/2017 0:50	26.73	64.0	5.12	3.9	SR13	5/13/2017 6:50	26.52	65.3	5.22	5.7	SR13	5/13/2017 12:50	26.47	59.9	4.79	6.6	SR13	5/13/2017 18:50	27.58	60.8	4.86	4.2
SR13	5/13/2017 0:55	26.73	62.3	4.98	6.7	SR13	5/13/2017 6:55	26.56	60.3	4.82	4.2	SR13	5/13/2017 12:55	26.46	61.9	4.95	4.2	SR13	5/13/2017 18:55	27.62	65.3	5.22	7.2
SR13	5/13/2017 1:00	26.73	61.4	4.91	5.7	SR13	5/13/2017 7:00	26.58	63.0	5.04	6.8	SR13	5/13/2017 13:00	26.38	64.3	5.14	4.4	SR13	5/13/2017 19:00	27.37	61.1	4.89	6.2
SR13	5/13/2017 1:05	26.72	62.5	5.00	4.4	SR13	5/13/2017 7:05	26.69	61.1	4.89	5.8	SR13	5/13/2017 13:05	26.35	64.4	5.15	6.8	SR13	5/13/2017 19:05	27.58	62.9	5.03	7.6
SR13	5/13/2017 1:10	26.72	60.4	4.83	5.7	SR13	5/13/2017 7:10	26.58	59.9	4.79	7.2	SR13	5/13/2017 13:10	26.39	66.1	5.29	5.8	SR13	5/13/2017 19:10	27.57	59.8	4.78	4.5
SR13	5/13/2017 1:15	26.72	65.4	5.23	6.7	SR13	5/13/2017 7:15	26.52	63.0	5.04	4.5	SR13	5/13/2017 13:15	26.39	63.6	5.09	6.9	SR13	5/13/2017 19:15	27.52	61.4	4.91	4.3
SR13	5/13/2017 1:20	26.73	60.5	4.84	5.6	SR13	5/13/2017 7:20	26.49	61.5	4.92	5.0	SR13	5/13/2017 13:20	26.38	62.3	4.98	7.9	SR13	5/13/2017 19:20	27.29	62.5	5.00	6.0
SR13	5/13/2017 1:25	26.74	63.8	5.10	4.8	SR13	5/13/2017 7:25	26.50	62.6	5.01	6.5	SR13	5/13/2017 13:25	26.48	59.8	4.78	4.8	SR13	5/13/2017 19:25	27.39	65.0	5.20	7.0
SR13	5/13/2017 1:30	26.75	62.3	4.98	4.2	SR13	5/13/2017 7:30	26.48	63.6	5.09	5.9	SR13	5/13/2017 13:30	26.40	65.6	5.25	5.5	SR13	5/13/2017 19:30	27.45	60.3	4.82	6.2
SR13	5/13/2017 1:35	26.74	61.0	4.88	7.2	SR13	5/13/2017 7:35	26.49	62.3	4.98	3.8	SR13	5/13/2017 13:35	26.42	65.9	5.27	6.3	SR13	5/13/2017 19:35	27.64	62.5	5.00	6.4
SR13	5/13/2017 1:40	26.74	64.3	5.14	7.7	SR13	5/13/2017 7:40	26.49	64.5	5.16	7.5	SR13	5/13/2017 13:40	26.42	63.8	5.10	7.2	SR13	5/13/2017 19:40	27.55	63.6	5.09	7.3
SR13	5/13/2017 1:45	26.74	65.6	5.25	8.0	SR13	5/13/2017 7:45	26.49	60.9	4.87	7.9	SR13	5/13/2017 13:45	26.40	60.4	4.83	4.6	SR13	5/13/2017 19:45	27.47	64.3	5.14	8.6
SR13	5/13/2017 1:50	26.73	65.5	5.24	3.9	SR13	5/13/2017 7:50	26.47	61.3	4.90	4.9	SR13	5/13/2017 13:50	26.35	64.1	5.13	7.3	SR13	5/13/2017 19:50	27.35	63.5	5.08	8.0
SR13	5/13/2017 1:55	26.73	65.6	5.25	4.5	SR13	5/13/2017 7:55	26.48	61.4	4.91	5.4	SR13	5/13/2017 13:55	26.38	64.3	5.14	5.7	SR13	5/13/2017 19:55	27.34	64.1	5.13	6.1
SR13	5/13/2017 2:00	26.71	62.8	5.02	7.8	SR13	5/13/2017 8:00	26.49	60.4	4.83	7.2	SR13	5/13/2017 14:00	26.34	64.6	5.17	4.6	SR13	5/13/2017 20:00	27.37	63.1	5.05	12.1
SR13	5/13/2017 2:05	26.72	65.9	5.27	4.8	SR13	5/13/2017 8:05	26.47	65.9	5.27	6.0	SR13	5/13/2017 14:05	26.31	61.8	4.94	5.6	SR13	5/13/2017 20:05	27.34	64.3	5.14	6.1
SR13	5/13/2017 2:10	26.70	64.0	5.12	4.2	SR13	5/13/2017 8:10	26.48	60.6	4.85	6.4	SR13	5/13/2017 14:10	26.28	63.4	5.07	4.1	SR13	5/13/2017 20:10	27.32	63.9	5.11	7.6
SR13	5/13/2017 2:15	26.68	64.5	5.16	7.6	SR13	5/13/2017 8:15	26.45	59.8	4.78	4.4	SR13	5/13/2017 14:15	26.27	63.3	5.06	4.9	SR13	5/13/2017 20:15	27.29	63.4	5.07	7.2
SR13	5/13/2017 2:20	26.67	65.1	5.21	5.4	SR13	5/13/2017 8:20	26.47	60.3	4.82	5.6	SR13	5/13/2017 14:20	26.30	63.1	5.05	7.6	SR13	5/13/2017 20:20	27.51	63.5	5.08	6.5
SR13	5/13/2017 2:25	26.65	62.4	4.99	4.6	SR13	5/13/2017 8:25	26.47	61.4	4.91	6.9	SR13	5/13/2017 14:25	26.37	65.9	5.27	8.0	SR13	5/13/2017 20:25	27.39	64.3	5.14	9.1
SR13	5/13/2017 2:30	26.65	60.8	4.86	7.1	SR13	5/13/2017 8:30	26.46	50.1	4.55	4.9	SR13	5/13/2017 14:30	26.37	60.6	4.85	7.7	SR13	5/13/2017 20:30	27.62	64.4	5.15	8.0
SR13	5/13/2017 2:35	26.64	64.4	5.15	7.7	SR13	5/13/2017 8:35	26.46	62.8	5.02	4.2	SR13	5/13/2017 14:35	26.35	65.9	5.27	5.7	SR13	5/13/2017 20:35	27.33	63.5	5.08	7.4
SR13	5/13/2017 2:40	26.62	60.4	4.83	7.3	SR13	5/13/2017 8:40	26.45	61.8	4.94	4.4	SR13	5/13/2017 14:40	26.34	49.7	4.33	8.0	SR13	5/13/2017 20:40	27.55	64.3	5.14	6.8
SR13	5/13/2017 2:45	26.61	64.6	5.17	7.3	SR13	5/13/2017 8:45	26.45	63.4	5.07	3.8	SR13	5/13/2017 14:45	26.36	64.6	5.17	3.8	SR13	5/13/2017 20:45	27.56	64.0	5.12	6.7
SR13	5/13/2017 2:50	26.60	63.5	5.08	5.0	SR13	5/13/2017 8:50	26.42	66.3	5.30	4.1	SR13	5/13/2017 14:50	26.39	60.1	4.81	4.7	SR13	5/13/2017 20:50	27.63	63.8	5.10	8.9
SR13	5/13/2017 2:55	26.59	61.6	4.93	5.2	SR13	5/13/2017 8:55	26.42	64.1	5.13	5.6	SR13	5/13/2017 14:55	26.39	63.9	5.11	3.7	SR13	5/13/2017 20:55	27.46	63.4	5.07	8.9
SR13	5/13/2017 3:00	26.59	65.5	5.24	3.7	SR13	5/13/2017 9:00	26.40	62.4	4.99	6.6	SR13	5/13/2017 15:00	26.40	64.3	5.14	4.3	SR13	5/13/2017 21:00	27.48	64.4	5.15	7.9
SR13	5/13/2017 3:05	26.59	65.0	5.20	6.6	SR13	5/13/2017 9:05	26.42	65.5	5.24	3.7	SR13	5/13/2017 15:05	26.42	62.3	4.98	8.0	SR13	5/13/2017 21:05	27.50	64.5	5.16	9.3
SR13	5/13/2017 3:10	26.59	62.8	5.02	5.6	SR13	5/13/2017 9:10	26.42	64.1	5.13	7.2	SR13	5/13/2017 15:10	26.45	66.4	5.31	6.3	SR13	5/13/2017 21:10	27.50	64.1	5.13	7.1
SR13	5/13/2017 3:15	26.58	64.5	5.16	5.3	SR13	5/13/2017 9:15	26.45	61.0	4.88	6.4	SR13	5/13/2017 15:15	26.48	63.8	5.10	6.2	SR13	5/13/2017 21:15	27.44	64.5	5.16	8.0
SR13	5/13/2017 3:20	26.59	59.8	4.78	4.3	SR13	5/13/2017 9:20	26.45	63.5	5.08	4.2	SR13	5/13/2017 15:20	26.50	64.0	5.12	6.3	SR13	5/13/2017 21:20	27.50	63.4	5.07	8.7
SR13	5/13/2017 3:25	26.58	59.8	4.78	6.1	SR13	5/13/2017 9:25	26.44	61.1	4.89	5.7	SR13	5/13/2017 15:25	26.50	60.5	4.84	3.7	SR13	5/13/2017 21:25	27.53	63.8	5.10	7.1
SR13	5/13/2017 3:30	26.57	61.5	4.92	5.5	SR13	5/13/2017 9:30	26.44	63.6	5.09	5.0	SR13	5/13/2017 15:30	26.50	63.0	5.04	4.3	SR13	5/13/2017 21:30	27.45	63.3	5.06	9.3
SR13	5/13/2017 3:35	26.57	65.1	5.21	5.0	SR13	5/13/2017 9:35	26.45	60.9	4.87	7.3	SR13	5/13/2017 15:35	26.64	61.4	4.91	4.6	SR13	5/13/2017 21:35	27.38	63.8	5.10	6.5
SR13	5/13/2017 3:40	26.58	62.3	4.98	7.9	SR13	5/13/2017 9:40	26.45	66.0	5.28	5.9	SR13	5/13/2017 15:40	26.83	60.5	4.84	4.9	SR13	5/13/2017 21:40	27.38	63.9	5.11	6.2
SR13	5/13/2017 3:45	26.60	61.5	4.92	7.1	SR13	5/13/2017 9:45	26.45	60.1	4.81	7.8	SR13	5/13/2017 15:45	26.96	65.3	5.22	4.5	SR13	5/13/2017 21:45	27.45	64.1	5.13	7.7
SR13	5/13/2017 3:50	26.59	61.0	4.88	3.9	SR13	5/13/2017 9:50	26.44	63.1	5.05	4.9	SR13	5/13/2017 15:50	27.04	66.4	5.31	6.3</						

24-hr Water Quality Monitoring

Station	Timestamp	NH <sub>3</sub> (mg/L)				Station	Timestamp	NH <sub>3</sub> (mg/L)			
SR4	5/13/2017 0:17	0.17				SR12	5/13/2017 0:17	0.16			
SR4	5/13/2017 0:37	0.14				SR12	5/13/2017 0:37	0.14			
SR4	5/13/2017 0:57	0.13				SR12	5/13/2017 0:57	0.15			
SR4	5/13/2017 1:17	0.16				SR12	5/13/2017 1:17	0.17			
SR4	5/13/2017 1:37	0.13				SR12	5/13/2017 1:37	0.16			
SR4	5/13/2017 1:57	0.17				SR12	5/13/2017 1:57	0.15			
SR4	5/13/2017 2:17	0.16				SR12	5/13/2017 2:17	0.16			
SR4	5/13/2017 2:37	0.16				SR12	5/13/2017 2:37	0.18			
SR4	5/13/2017 2:57	0.14				SR12	5/13/2017 2:57	0.19			
SR4	5/13/2017 3:17	0.16				SR12	5/13/2017 3:17	0.19			
SR4	5/13/2017 3:37	0.17				SR12	5/13/2017 3:37	0.16			
SR4	5/13/2017 3:57	0.15				SR12	5/13/2017 3:57	0.18			
SR4	5/13/2017 4:17	0.15				SR12	5/13/2017 4:17	0.19			
SR4	5/13/2017 4:37	0.15				SR12	5/13/2017 4:37	0.18			
SR4	5/13/2017 4:57	0.15				SR12	5/13/2017 4:57	0.19			
SR4	5/13/2017 5:17	0.14				SR12	5/13/2017 5:17	0.19			
SR4	5/13/2017 5:37	0.17				SR12	5/13/2017 5:37	0.15			
SR4	5/13/2017 5:57	0.16				SR12	5/13/2017 5:57	0.20			
SR4						SR12					
SR4	5/13/2017 6:37	0.13				SR12	5/13/2017 6:37	0.16			
SR4	5/13/2017 6:57	0.14				SR12	5/13/2017 6:57	0.18			
SR4	5/13/2017 7:17	0.14				SR12	5/13/2017 7:17	0.17			
SR4	5/13/2017 7:37	0.16				SR12	5/13/2017 7:37	0.19			
SR4	5/13/2017 7:57	0.17				SR12	5/13/2017 7:57	0.15			
SR4	5/13/2017 8:17	0.16				SR12	5/13/2017 8:17	0.17			
SR4	5/13/2017 8:37	0.14				SR12	5/13/2017 8:37	0.18			
SR4	5/13/2017 8:57	0.18				SR12	5/13/2017 8:57	0.18			
SR4	5/13/2017 9:17	0.18				SR12	5/13/2017 9:17	0.18			
SR4	5/13/2017 9:37	0.17				SR12	5/13/2017 9:37	0.17			
SR4	5/13/2017 9:57	0.14				SR12	5/13/2017 9:57	0.17			
SR4	5/13/2017 10:17	0.15				SR12	5/13/2017 10:17	0.17			
SR4	5/13/2017 10:37	0.17				SR12	5/13/2017 10:37	0.20			
SR4	5/13/2017 10:57	0.17				SR12	5/13/2017 10:57	0.17			
SR4	5/13/2017 11:17	0.16				SR12	5/13/2017 11:17	0.18			
SR4	5/13/2017 11:37	0.16				SR12	5/13/2017 11:37	0.20			
SR4	5/13/2017 11:57	0.14				SR12	5/13/2017 11:57	0.18			
SR4	5/13/2017 12:17	0.17				SR12	5/13/2017 12:17	0.15			
SR4	5/13/2017 12:37	0.16				SR12	5/13/2017 12:37	0.20			
SR4	5/13/2017 12:57	0.15				SR12	5/13/2017 12:57	0.17			
SR4	5/13/2017 13:17	0.14				SR12	5/13/2017 13:17	0.18			
SR4	5/13/2017 13:37	0.17				SR12	5/13/2017 13:37	0.19			
SR4	5/13/2017 13:57	0.17				SR12	5/13/2017 13:57	0.20			
SR4	5/13/2017 14:17	0.15				SR12	5/13/2017 14:17	0.20			
SR4	5/13/2017 14:37	0.14				SR12	5/13/2017 14:37	0.17			
SR4	5/13/2017 14:57	0.18				SR12	5/13/2017 14:57	0.16			
SR4	5/13/2017 15:17	0.17				SR12	5/13/2017 15:17	0.15			
SR4	5/13/2017 15:37	0.16				SR12	5/13/2017 15:37	0.19			
SR4	5/13/2017 15:57	0.14				SR12	5/13/2017 15:57	0.19			
SR4	5/13/2017 16:17	0.16				SR12	5/13/2017 16:17	0.15			
SR4	5/13/2017 16:37	0.14				SR12	5/13/2017 16:37	0.15			
SR4	5/13/2017 16:57	0.15				SR12	5/13/2017 16:57	0.15			
SR4	5/13/2017 17:17	0.17				SR12	5/13/2017 17:17	0.20			
SR4	5/13/2017 17:37	0.18				SR12	5/13/2017 17:37	0.16			
SR4	5/13/2017 17:57	0.18				SR12	5/13/2017 17:57	0.19			
SR4	5/13/2017 18:17	0.15				SR12	5/13/2017 18:17	0.18			
SR4	5/13/2017 18:37	0.15				SR12	5/13/2017 18:37	0.18			
SR4	5/13/2017 18:57	0.15				SR12	5/13/2017 18:57	0.19			
SR4	5/13/2017 19:17	0.17				SR12	5/13/2017 19:17	0.18			
SR4	5/13/2017 19:37	0.14				SR12	5/13/2017 19:37	0.20			
SR4	5/13/2017 19:57	0.14				SR12	5/13/2017 19:57	0.19			
SR4	5/13/2017 20:17	0.16				SR12	5/13/2017 20:17	0.20			
SR4	5/13/2017 20:37	0.16				SR12	5/13/2017 20:37	0.17			
SR4	5/13/2017 20:57	0.18				SR12	5/13/2017 20:57	0.17			
SR4	5/13/2017 21:17	0.15				SR12	5/13/2017 21:17	0.16			
SR4	5/13/2017 21:37	0.15				SR12	5/13/2017 21:37	0.18			
SR4	5/13/2017 21:57	0.16				SR12	5/13/2017 21:57	0.20			
SR4	5/13/2017 22:17	0.17				SR12	5/13/2017 22:17	0.18			
SR4	5/13/2017 22:37	0.14				SR12	5/13/2017 22:37	0.17			
SR4	5/13/2017 22:57	0.16				SR12	5/13/2017 22:57	0.17			
SR4	5/13/2017 23:17	0.15				SR12	5/13/2017 23:17	0.20			
SR4	5/13/2017 23:37	0.13				SR12	5/13/2017 23:37	0.20			
SR4	5/13/2017 23:57	0.13				SR12	5/13/2017 23:57	0.19			

Remark: Fonts with underline: Action Level Exceedance

**Fonts in Bold with underline: Limit Level Exceedance**

Automatic Instrument calibration of NH<sub>3</sub>-N monitor was carried out during 5:57-6:37 at SR4 and SR12.

24-hr Water Quality Monitoring

Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)
SR4	5/14/2017 0:01	26.44	67.0	5.45	8.0	SR4	5/14/2017 6:01	26.38	66.4	5.40	8.1	SR4	5/14/2017 12:01	27.35	65.9	5.36	4.1	SR4	5/14/2017 18:01	26.94	65.6	5.33	5.4
SR4	5/14/2017 0:06	26.46	67.2	5.46	7.2	SR4	5/14/2017 6:06	26.42	66.7	5.42	5.6	SR4	5/14/2017 12:06	27.33	66.5	5.41	3.9	SR4	5/14/2017 18:06	27.07	64.8	5.27	5.4
SR4	5/14/2017 0:11	26.47	66.7	5.42	5.4	SR4	5/14/2017 6:11	26.41	67.3	5.47	7.5	SR4	5/14/2017 12:11	27.26	66.4	5.40	5.6	SR4	5/14/2017 18:11	27.04	66.2	5.38	5.1
SR4	5/14/2017 0:16	26.46	66.4	5.40	7.9	SR4	5/14/2017 6:16	26.40	67.5	5.49	5.4	SR4	5/14/2017 12:16	27.28	66.1	5.37	1.9	SR4	5/14/2017 18:16	27.30	65.3	5.31	7.7
SR4	5/14/2017 0:21	26.46	67.7	5.50	7.8	SR4	5/14/2017 6:21	26.38	66.4	5.40	7.1	SR4	5/14/2017 12:21	27.28	66.1	5.37	4.5	SR4	5/14/2017 18:21	27.41	65.7	5.34	8.0
SR4	5/14/2017 0:26	26.45	67.0	5.45	6.0	SR4	5/14/2017 6:26	26.39	67.7	5.50	6.9	SR4	5/14/2017 12:26	27.29	65.9	5.36	2.0	SR4	5/14/2017 18:26	27.38	65.3	5.31	6.5
SR4	5/14/2017 0:31	26.43	67.8	5.51	6.4	SR4	5/14/2017 6:31	26.34	67.4	5.48	7.2	SR4	5/14/2017 12:31	27.31	65.7	5.34	4.2	SR4	5/14/2017 18:31	27.35	65.6	5.33	7.7
SR4	5/14/2017 0:36	26.39	66.8	5.43	6.2	SR4	5/14/2017 6:36	26.31	66.4	5.40	5.1	SR4	5/14/2017 12:36	27.30	66.2	5.38	5.0	SR4	5/14/2017 18:36	27.32	65.8	5.35	7.7
SR4	5/14/2017 0:41	26.41	66.9	5.44	6.1	SR4	5/14/2017 6:41	26.33	66.5	5.41	6.7	SR4	5/14/2017 12:41	27.28	65.9	5.36	1.5	SR4	5/14/2017 18:41	27.30	65.6	5.33	6.3
SR4	5/14/2017 0:46	26.41	67.2	5.46	7.5	SR4	5/14/2017 6:46	26.30	66.8	5.43	4.9	SR4	5/14/2017 12:46	27.37	65.7	5.34	3.2	SR4	5/14/2017 18:46	27.30	65.8	5.35	7.5
SR4	5/14/2017 0:51	26.41	67.0	5.45	7.4	SR4	5/14/2017 6:51	26.23	67.7	5.50	5.2	SR4	5/14/2017 12:51	27.30	66.5	5.41	2.1	SR4	5/14/2017 18:51	27.29	65.1	5.29	6.6
SR4	5/14/2017 0:56	26.41	67.9	5.52	5.6	SR4	5/14/2017 6:56	26.28	66.5	5.41	7.2	SR4	5/14/2017 12:56	27.20	65.9	5.36	1.8	SR4	5/14/2017 18:56	27.32	66.1	5.37	5.8
SR4	5/14/2017 1:01	26.42	67.2	5.46	7.0	SR4	5/14/2017 7:01	26.27	67.9	5.52	4.7	SR4	5/14/2017 13:01	27.09	65.8	5.35	1.9	SR4	5/14/2017 19:01	27.24	65.4	5.32	5.6
SR4	5/14/2017 1:06	26.41	66.5	5.41	6.3	SR4	5/14/2017 7:06	26.26	66.4	5.40	7.4	SR4	5/14/2017 13:06	26.90	66.1	5.37	5.3	SR4	5/14/2017 19:06	27.27	65.7	5.34	5.1
SR4	5/14/2017 1:11	26.40	66.4	5.40	5.8	SR4	5/14/2017 7:11	26.26	67.2	5.46	5.2	SR4	5/14/2017 13:11	26.89	65.7	5.34	5.1	SR4	5/14/2017 19:11	27.22	65.2	5.30	7.8
SR4	5/14/2017 1:16	26.37	67.0	5.45	6.1	SR4	5/14/2017 7:16	26.25	66.9	5.44	8.0	SR4	5/14/2017 13:16	26.94	66.5	5.41	2.0	SR4	5/14/2017 19:16	27.32	65.9	5.36	7.4
SR4	5/14/2017 1:21	26.31	66.8	5.43	8.1	SR4	5/14/2017 7:21	26.32	67.2	5.46	5.6	SR4	5/14/2017 13:21	27.02	65.8	5.35	3.3	SR4	5/14/2017 19:21	27.29	65.1	5.29	6.0
SR4	5/14/2017 1:26	26.31	67.8	5.51	6.1	SR4	5/14/2017 7:26	26.31	67.7	5.50	5.9	SR4	5/14/2017 13:26	27.06	65.9	5.36	4.3	SR4	5/14/2017 19:26	27.36	65.4	5.32	6.4
SR4	5/14/2017 1:31	26.29	66.9	5.44	6.7	SR4	5/14/2017 7:31	26.28	67.0	5.45	7.3	SR4	5/14/2017 13:31	27.26	65.8	5.35	1.4	SR4	5/14/2017 19:31	27.36	65.4	5.32	8.1
SR4	5/14/2017 1:36	26.30	66.7	5.42	4.7	SR4	5/14/2017 7:36	26.27	66.8	5.43	7.2	SR4	5/14/2017 13:36	27.35	66.2	5.38	2.5	SR4	5/14/2017 19:36	27.39	65.6	5.33	6.0
SR4	5/14/2017 1:41	26.28	67.3	5.47	6.1	SR4	5/14/2017 7:41	26.26	67.8	5.51	5.1	SR4	5/14/2017 13:41	27.44	65.8	5.35	4.0	SR4	5/14/2017 19:41	27.41	65.3	5.31	5.6
SR4	5/14/2017 1:46	26.28	67.7	5.50	7.2	SR4	5/14/2017 7:46	26.24	67.8	5.51	8.2	SR4	5/14/2017 13:46	27.51	66.3	5.39	2.6	SR4	5/14/2017 19:46	27.36	65.1	5.29	8.3
SR4	5/14/2017 1:51	26.28	66.5	5.41	6.0	SR4	5/14/2017 7:51	26.24	66.5	5.41	7.9	SR4	5/14/2017 13:51	27.44	66.7	5.42	4.6	SR4	5/14/2017 19:51	27.31	65.8	5.35	5.1
SR4	5/14/2017 1:56	26.26	67.7	5.50	6.3	SR4	5/14/2017 7:56	26.22	67.8	5.51	7.2	SR4	5/14/2017 13:56	27.33	66.2	5.38	1.8	SR4	5/14/2017 19:56	27.30	65.2	5.30	6.9
SR4	5/14/2017 2:01	26.29	66.9	5.44	6.0	SR4	5/14/2017 8:01	26.30	67.5	5.49	7.4	SR4	5/14/2017 14:01	27.33	66.1	5.37	2.3	SR4	5/14/2017 20:01	27.30	65.6	5.33	7.4
SR4	5/14/2017 2:06	26.28	66.5	5.41	7.3	SR4	5/14/2017 8:06	26.30	67.7	5.50	5.7	SR4	5/14/2017 14:06	27.25	66.1	5.37	4.4	SR4	5/14/2017 20:06	27.28	64.8	5.27	5.2
SR4	5/14/2017 2:11	26.29	66.7	5.42	6.3	SR4	5/14/2017 8:11	26.30	67.8	5.51	5.9	SR4	5/14/2017 14:11	27.11	65.8	5.35	4.7	SR4	5/14/2017 20:11	27.30	65.9	5.36	5.4
SR4	5/14/2017 2:16	26.32	66.8	5.43	5.9	SR4	5/14/2017 8:16	26.30	66.7	5.42	6.9	SR4	5/14/2017 14:16	27.30	66.5	5.41	1.5	SR4	5/14/2017 20:16	27.31	65.6	5.33	7.8
SR4	5/14/2017 2:21	26.34	66.9	5.44	5.1	SR4	5/14/2017 8:21	26.31	67.0	5.45	7.9	SR4	5/14/2017 14:21	27.50	65.9	5.36	2.5	SR4	5/14/2017 20:21	27.31	65.1	5.29	5.6
SR4	5/14/2017 2:26	26.32	66.8	5.43	5.0	SR4	5/14/2017 8:26	26.28	67.4	5.48	5.1	SR4	5/14/2017 14:26	27.21	66.3	5.39	3.6	SR4	5/14/2017 20:26	27.30	65.4	5.32	7.4
SR4	5/14/2017 2:31	26.31	66.8	5.43	5.4	SR4	5/14/2017 8:31	26.26	67.2	5.46	5.1	SR4	5/14/2017 14:31	27.31	66.1	5.37	3.3	SR4	5/14/2017 20:31	27.32	65.1	5.29	5.2
SR4	5/14/2017 2:36	26.34	66.9	5.44	7.0	SR4	5/14/2017 8:36	26.25	67.9	5.52	4.8	SR4	5/14/2017 14:36	27.25	65.9	5.36	2.3	SR4	5/14/2017 20:36	27.27	66.2	5.38	5.2
SR4	5/14/2017 2:41	26.38	67.5	5.49	5.3	SR4	5/14/2017 8:41	26.28	67.3	5.47	5.3	SR4	5/14/2017 14:41	27.26	66.2	5.38	4.6	SR4	5/14/2017 20:41	27.27	65.1	5.29	5.3
SR4	5/14/2017 2:46	26.39	67.8	5.51	7.8	SR4	5/14/2017 8:46	26.26	67.4	5.48	8.2	SR4	5/14/2017 14:46	27.62	66.3	5.39	2.6	SR4	5/14/2017 20:46	27.21	65.3	5.31	6.1
SR4	5/14/2017 2:51	26.39	66.9	5.44	7.7	SR4	5/14/2017 8:51	26.28	67.0	5.45	6.2	SR4	5/14/2017 14:51	26.95	66.1	5.37	2.9	SR4	5/14/2017 20:51	27.20	65.3	5.31	8.3
SR4	5/14/2017 2:56	26.36	66.8	5.43	6.2	SR4	5/14/2017 8:56	26.30	66.7	5.42	7.3	SR4	5/14/2017 14:56	26.85	66.1	5.37	2.1	SR4	5/14/2017 20:56	27.27	65.4	5.32	6.1
SR4	5/14/2017 3:01	26.28	66.7	5.42	7.6	SR4	5/14/2017 9:01	26.34	66.9	5.44	6.4	SR4	5/14/2017 15:01	26.73	66.2	5.38	4.3	SR4	5/14/2017 21:01	27.29	65.4	5.32	6.6
SR4	5/14/2017 3:06	26.30	67.4	5.48	4.7	SR4	5/14/2017 9:06	26.35	67.8	5.51	7.7	SR4	5/14/2017 15:06	26.78	65.8	5.35	5.6	SR4	5/14/2017 21:06	27.23	65.7	5.34	5.8
SR4	5/14/2017 3:11	26.31	66.7	5.42	6.1	SR4	5/14/2017 9:11	26.35	67.3	5.47	5.0	SR4	5/14/2017 15:11	26.87	65.7	5.34	1.6	SR4	5/14/2017 21:11	27.20	65.9	5.36	7.1
SR4	5/14/2017 3:16	26.30	66.5	5.41	6.1	SR4	5/14/2017 9:16	26.35	66.5	5.41	7.0	SR4	5/14/2017 15:16	27.10	66.2	5.38	3.7	SR4	5/14/2017 21:16	27.18	65.9	5.36	6.8
SR4	5/14/2017 3:21	26.27	66.7	5.42	6.1	SR4	5/14/2017 9:21	26.37	67.3	5.47	7.7	SR4	5/14/2017 15:21	27.04	66.3	5.39	3.5	SR4	5/14/2017 21:21	27.17	66.4	5.40	5.4
SR4	5/14/2017 3:26	26.23	67.2	5.46	8.1	SR4	5/14/2017 9:26	26.36	66.5	5.41	7.9	SR4	5/14/2017 15:26	27.04	66.1	5.37	2.0	SR4	5/14/2017 21:26	27.18	65.8	5.35	6.5
SR4	5/14/2017 3:31	26.23	66.7	5.42	7.9	SR4	5/14/2017 9:31	26.38	66.9	5.44	5.4	SR4	5/14/2017 15:31	27.73	66.1	5.37	4.5	SR4	5/14/2017 21:31	27.16	65.7	5.34	6.4
SR4	5/14/2017 3:36	26.25	66.7	5.42	7.0	SR4	5/14/2017 9:36	26.37	66.4	5.40	4.8	SR4	5/14/2017 15:36	27.58	66.2	5.38	4.1	SR4	5/14/2017 21:36	27.15	65.4	5.32	4.7
SR4	5/14/2017 3:41	26.24	67.0	5.45	6.2	SR4	5/14/2017 9:41	26.37	66.7	5.42	3.3	SR4	5/14/2017 15:41	27.63	65.8	5.35	3.6	SR4	5/14/2017 21:41	27.15	66.1	5.37	4.6
SR4	5/14/2017 3:46	26.24	66.7	5.42	4.7	SR4	5/14/2017 9:46	26.38	66.3	5.39	5.0	SR4	5/14/2017 15:46	27.36	66.3	5.39	2.4	SR4	5/14/2017 21:46	27.11	66.5	5.41	4.9
SR4	5/14/2017 3:51	26.24	67.5	5.49	5.2	SR4	5/14/2017 9:51	26.38	66.5	5.41	5.1	SR4	5/14/2017 15:51	27.18	66.4	5.40	3.7	SR4	5/14/2017 21:51	27.10	66.1	5.37	8.2
SR4	5/14/2017 3:56	26.21	67.9	5.52	5.3	SR4	5/14/2017 9:56	26.40	66.5	5.41													

24-hr Water Quality Monitoring

Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)
SR5	5/14/2017 0:00	26.94	71.5	5.77	5.0	SR5	5/14/2017 6:00	26.93	70.6	5.69	4.4	SR5	5/14/2017 12:00	27.01	71.2	5.74	7.8	SR5	5/14/2017 18:00	27.39	70.9	5.72	4.2
SR5	5/14/2017 0:05	26.97	70.2	5.66	4.7	SR5	5/14/2017 6:05	26.93	70.6	5.69	2.6	SR5	5/14/2017 12:05	27.05	71.9	5.80	9.3	SR5	5/14/2017 18:05	27.42	72.2	5.82	8.1
SR5	5/14/2017 0:10	26.99	68.1	5.49	7.9	SR5	5/14/2017 6:10	26.90	68.4	5.52	3.7	SR5	5/14/2017 12:10	27.06	71.9	5.80	9.4	SR5	5/14/2017 18:10	27.42	71.5	5.77	6.8
SR5	5/14/2017 0:15	26.95	67.7	5.46	6.9	SR5	5/14/2017 6:15	26.91	69.7	5.62	7.5	SR5	5/14/2017 12:15	27.07	71.3	5.75	4.5	SR5	5/14/2017 18:15	27.43	71.5	5.77	5.2
SR5	5/14/2017 0:20	26.97	69.4	5.60	4.6	SR5	5/14/2017 6:20	26.91	69.2	5.58	6.6	SR5	5/14/2017 12:20	27.06	71.1	5.73	7.9	SR5	5/14/2017 18:20	27.44	72.2	5.82	8.0
SR5	5/14/2017 0:25	26.95	68.2	5.50	8.3	SR5	5/14/2017 6:25	26.95	69.1	5.57	3.2	SR5	5/14/2017 12:25	27.08	71.4	5.76	7.0	SR5	5/14/2017 18:25	27.41	72.2	5.82	7.1
SR5	5/14/2017 0:30	26.98	69.8	5.63	8.4	SR5	5/14/2017 6:30	26.90	67.6	5.45	4.9	SR5	5/14/2017 12:30	27.07	72.0	5.81	9.3	SR5	5/14/2017 18:30	27.45	71.7	5.78	5.2
SR5	5/14/2017 0:35	26.96	69.6	5.61	8.3	SR5	5/14/2017 6:35	26.91	70.2	5.66	5.1	SR5	5/14/2017 12:35	27.09	71.3	5.75	7.7	SR5	5/14/2017 18:35	27.41	70.9	5.72	7.2
SR5	5/14/2017 0:40	26.96	71.1	5.73	3.7	SR5	5/14/2017 6:40	26.90	70.9	5.72	4.7	SR5	5/14/2017 12:40	27.11	71.2	5.74	5.9	SR5	5/14/2017 18:40	27.43	70.9	5.72	7.6
SR5	5/14/2017 0:45	26.96	68.2	5.50	2.3	SR5	5/14/2017 6:45	26.91	71.3	5.75	2.2	SR5	5/14/2017 12:45	27.08	71.4	5.76	7.0	SR5	5/14/2017 18:45	27.45	71.4	5.76	9.0
SR5	5/14/2017 0:50	26.94	70.3	5.67	8.5	SR5	5/14/2017 6:50	26.89	67.6	5.45	2.8	SR5	5/14/2017 12:50	27.13	71.1	5.73	9.1	SR5	5/14/2017 18:50	27.47	71.8	5.79	8.5
SR5	5/14/2017 0:55	26.95	71.1	5.73	5.7	SR5	5/14/2017 6:55	26.93	71.8	5.79	6.6	SR5	5/14/2017 12:55	27.12	70.8	5.71	7.0	SR5	5/14/2017 18:55	27.44	71.8	5.79	6.9
SR5	5/14/2017 1:00	26.93	70.6	5.69	8.0	SR5	5/14/2017 7:00	26.94	70.8	5.71	5.7	SR5	5/14/2017 13:00	27.10	71.3	5.75	4.1	SR5	5/14/2017 19:00	27.44	71.5	5.77	5.4
SR5	5/14/2017 1:05	26.96	71.3	5.75	2.3	SR5	5/14/2017 7:05	26.91	67.5	5.44	5.6	SR5	5/14/2017 13:05	27.11	71.8	5.79	6.5	SR5	5/14/2017 19:05	27.47	71.7	5.78	5.6
SR5	5/14/2017 1:10	26.93	70.1	5.65	2.6	SR5	5/14/2017 7:10	26.89	67.8	5.47	8.7	SR5	5/14/2017 13:10	27.12	72.0	5.81	7.3	SR5	5/14/2017 19:10	27.45	71.2	5.74	8.6
SR5	5/14/2017 1:15	26.94	70.9	5.72	8.9	SR5	5/14/2017 7:15	26.94	71.3	5.75	2.8	SR5	5/14/2017 13:15	27.14	70.8	5.71	4.2	SR5	5/14/2017 19:15	27.46	71.4	5.76	8.8
SR5	5/14/2017 1:20	26.95	68.6	5.53	5.1	SR5	5/14/2017 7:20	26.87	68.2	5.50	5.3	SR5	5/14/2017 13:20	27.11	71.4	5.76	4.5	SR5	5/14/2017 19:20	27.46	71.5	5.77	7.0
SR5	5/14/2017 1:25	26.97	68.3	5.51	8.9	SR5	5/14/2017 7:25	26.88	68.6	5.53	3.5	SR5	5/14/2017 13:25	27.15	72.2	5.82	5.0	SR5	5/14/2017 19:25	27.49	71.8	5.79	4.9
SR5	5/14/2017 1:30	26.94	70.3	5.67	7.3	SR5	5/14/2017 7:30	26.89	67.2	5.42	3.0	SR5	5/14/2017 13:30	27.17	70.8	5.71	6.1	SR5	5/14/2017 19:30	27.45	71.8	5.79	6.1
SR5	5/14/2017 1:35	26.92	69.1	5.57	8.7	SR5	5/14/2017 7:35	26.88	67.1	5.41	2.2	SR5	5/14/2017 13:35	27.16	71.5	5.77	7.6	SR5	5/14/2017 19:35	27.47	71.3	5.75	9.3
SR5	5/14/2017 1:40	26.95	68.0	5.48	5.4	SR5	5/14/2017 7:40	26.90	70.7	5.70	8.9	SR5	5/14/2017 13:40	27.19	71.7	5.78	5.2	SR5	5/14/2017 19:40	27.48	71.2	5.74	4.1
SR5	5/14/2017 1:45	26.92	71.8	5.79	6.8	SR5	5/14/2017 7:45	26.88	68.2	5.50	4.4	SR5	5/14/2017 13:45	27.16	71.3	5.75	4.4	SR5	5/14/2017 19:45	27.46	71.3	5.75	8.2
SR5	5/14/2017 1:50	26.91	67.8	5.47	4.1	SR5	5/14/2017 7:50	26.88	69.4	5.60	7.8	SR5	5/14/2017 13:50	27.16	71.3	5.75	7.2	SR5	5/14/2017 19:50	27.50	71.9	5.80	7.9
SR5	5/14/2017 1:55	26.96	70.9	5.72	4.0	SR5	5/14/2017 7:55	26.84	71.2	5.74	8.9	SR5	5/14/2017 13:55	27.20	70.8	5.71	5.7	SR5	5/14/2017 19:55	27.46	71.7	5.78	5.8
SR5	5/14/2017 2:00	26.93	71.5	5.77	7.4	SR5	5/14/2017 8:00	26.84	70.2	5.66	6.4	SR5	5/14/2017 14:00	27.17	72.2	5.82	8.0	SR5	5/14/2017 20:00	27.49	70.8	5.71	7.6
SR5	5/14/2017 2:05	26.92	68.4	5.52	3.5	SR5	5/14/2017 8:05	26.88	71.5	5.77	4.6	SR5	5/14/2017 14:05	27.16	71.1	5.73	6.3	SR5	5/14/2017 20:05	27.48	72.0	5.81	8.5
SR5	5/14/2017 2:10	26.92	69.3	5.59	5.0	SR5	5/14/2017 8:10	26.83	68.0	5.48	8.8	SR5	5/14/2017 14:10	27.17	71.9	5.80	4.9	SR5	5/14/2017 20:10	27.48	71.3	5.75	8.4
SR5	5/14/2017 2:15	26.91	71.5	5.77	3.3	SR5	5/14/2017 8:15	26.86	67.2	5.42	2.3	SR5	5/14/2017 14:15	27.19	70.8	5.71	7.7	SR5	5/14/2017 20:15	27.48	70.8	5.71	6.8
SR5	5/14/2017 2:20	26.91	69.4	5.60	4.2	SR5	5/14/2017 8:20	26.87	70.9	5.72	3.1	SR5	5/14/2017 14:20	27.21	71.7	5.78	8.8	SR5	5/14/2017 20:20	27.48	71.2	5.74	7.1
SR5	5/14/2017 2:25	26.90	70.7	5.70	2.3	SR5	5/14/2017 8:25	26.84	69.1	5.57	5.3	SR5	5/14/2017 14:25	27.20	71.2	5.74	4.1	SR5	5/14/2017 20:25	27.51	71.9	5.80	8.4
SR5	5/14/2017 2:30	26.94	67.5	5.44	6.4	SR5	5/14/2017 8:30	26.86	68.1	5.49	6.8	SR5	5/14/2017 14:30	27.22	71.4	5.76	8.6	SR5	5/14/2017 20:30	27.46	71.2	5.74	9.0
SR5	5/14/2017 2:35	26.94	68.9	5.56	6.0	SR5	5/14/2017 8:35	26.85	71.9	5.80	8.0	SR5	5/14/2017 14:35	27.19	71.1	5.73	8.7	SR5	5/14/2017 20:35	27.46	71.2	5.74	4.8
SR5	5/14/2017 2:40	26.90	71.5	5.77	7.8	SR5	5/14/2017 8:40	26.88	70.1	5.65	5.7	SR5	5/14/2017 14:40	27.25	71.7	5.78	8.3	SR5	5/14/2017 20:40	27.47	71.1	5.73	5.6
SR5	5/14/2017 2:45	26.93	67.5	5.44	5.4	SR5	5/14/2017 8:45	26.86	68.7	5.54	7.0	SR5	5/14/2017 14:45	27.22	71.9	5.80	7.9	SR5	5/14/2017 20:45	27.46	71.2	5.74	5.2
SR5	5/14/2017 2:50	26.92	69.3	5.59	8.4	SR5	5/14/2017 8:50	26.88	69.7	5.62	2.4	SR5	5/14/2017 14:50	27.22	71.1	5.73	5.1	SR5	5/14/2017 20:50	27.49	71.9	5.80	7.6
SR5	5/14/2017 2:55	26.91	68.0	5.48	7.5	SR5	5/14/2017 8:55	26.89	69.9	5.64	3.7	SR5	5/14/2017 14:55	27.22	72.0	5.81	6.4	SR5	5/14/2017 20:55	27.50	71.8	5.79	6.2
SR5	5/14/2017 3:00	26.94	69.9	5.64	5.1	SR5	5/14/2017 9:00	26.88	70.9	5.72	5.7	SR5	5/14/2017 15:00	27.20	71.7	5.78	5.1	SR5	5/14/2017 21:00	27.48	71.1	5.73	5.1
SR5	5/14/2017 3:05	26.90	69.7	5.62	7.1	SR5	5/14/2017 9:05	26.87	69.4	5.60	3.1	SR5	5/14/2017 15:05	27.21	70.9	5.72	6.9	SR5	5/14/2017 21:05	27.50	71.3	5.75	5.0
SR5	5/14/2017 3:10	26.93	71.3	5.75	2.4	SR5	5/14/2017 9:10	26.91	68.2	5.50	2.4	SR5	5/14/2017 15:10	27.22	70.9	5.72	6.7	SR5	5/14/2017 21:10	27.50	71.4	5.76	9.3
SR5	5/14/2017 3:15	26.89	68.6	5.53	7.0	SR5	5/14/2017 9:15	26.86	67.8	5.47	5.5	SR5	5/14/2017 15:15	27.26	71.7	5.78	6.6	SR5	5/14/2017 21:15	27.46	71.8	5.79	7.4
SR5	5/14/2017 3:20	26.89	68.2	5.50	6.9	SR5	5/14/2017 9:20	26.89	71.3	5.75	4.8	SR5	5/14/2017 15:20	27.26	71.8	5.79	9.3	SR5	5/14/2017 21:20	27.46	71.4	5.76	7.3
SR5	5/14/2017 3:25	26.88	68.1	5.49	5.2	SR5	5/14/2017 9:25	26.89	67.5	5.44	2.3	SR5	5/14/2017 15:25	27.24	71.3	5.75	6.3	SR5	5/14/2017 21:25	27.51	72.2	5.82	7.8
SR5	5/14/2017 3:30	26.89	71.1	5.73	8.2	SR5	5/14/2017 9:30	26.90	69.2	5.58	7.9	SR5	5/14/2017 15:30	27.25	71.5	5.77	5.7	SR5	5/14/2017 21:30	27.48	71.8	5.79	7.8
SR5	5/14/2017 3:35	26.88	71.3	5.75	8.8	SR5	5/14/2017 9:35	26.90	69.2	5.58	7.9	SR5	5/14/2017 15:35	27.24	71.2	5.74	7.2	SR5	5/14/2017 21:35	27.49	71.4	5.76	7.4
SR5	5/14/2017 3:40	26.92	67.7	5.46	5.8	SR5	5/14/2017 9:40	26.88	67.6	5.45	7.7	SR5	5/14/2017 15:40	27.26	72.0	5.81	5.4	SR5	5/14/2017 21:40	27.51	71.1	5.73	7.2
SR5	5/14/2017 3:45	26.89	67.7	5.46	8.3	SR5	5/14/2017 9:45	26.92	68.3	5.51	6.9	SR5	5/14/2017 15:45	27.24	71.5	5.77	4.9	SR5	5/14/2017 21:45	27.50	71.4	5.76	7.2
SR5	5/14/2017 3:50	26.90	68.6	5.53	2.8	SR5	5/14/2017 9:50	26.92	71.1	5.73	7.9	SR5	5/14/2017 15:50	27.26	70.9	5.72	8.4	SR5	5/14/2017 21:50	27.51	71.9	5.80	7.9
SR5	5/14/2017 3:55	26.91	69.1	5.57	5.6	SR5	5/14/2017 9:55	26.															

## 24-hr Water Quality Monitoring

Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)
SR12	5/14/2017 0:01	26.42	67.7	5.46	2.9	SR12	5/14/2017 6:01	26.38	67.5	5.44	2.7	SR12	5/14/2017 12:01	26.69	67.2	5.42	3.2	SR12	5/14/2017 18:01	26.80	65.0	5.24	3.6
SR12	5/14/2017 0:06	26.44	67.8	5.47	4.1	SR12	5/14/2017 6:06	26.39	68.0	5.48	5.6	SR12	5/14/2017 12:06	26.69	68.1	5.49	4.4	SR12	5/14/2017 18:06	26.98	67.1	5.41	3.4
SR12	5/14/2017 0:11	26.44	68.1	5.49	6.3	SR12	5/14/2017 6:11	26.39	68.1	5.49	6.4	SR12	5/14/2017 12:11	26.71	68.1	5.49	5.9	SR12	5/14/2017 18:11	26.88	63.6	5.13	6.1
SR12	5/14/2017 0:16	26.43	68.1	5.49	4.6	SR12	5/14/2017 6:16	26.37	67.7	5.46	3.1	SR12	5/14/2017 12:16	26.73	67.1	5.41	4.3	SR12	5/14/2017 18:16	27.23	62.7	5.06	2.3
SR12	5/14/2017 0:21	26.41	68.3	5.51	4.7	SR12	5/14/2017 6:21	26.35	68.7	5.54	5.5	SR12	5/14/2017 12:21	26.74	68.7	5.54	4.0	SR12	5/14/2017 18:21	27.34	64.0	5.16	2.8
SR12	5/14/2017 0:26	26.39	68.6	5.53	2.7	SR12	5/14/2017 6:26	26.37	67.6	5.45	6.3	SR12	5/14/2017 12:26	26.76	67.5	5.44	4.6	SR12	5/14/2017 18:26	27.22	62.2	5.02	5.9
SR12	5/14/2017 0:31	26.38	68.0	5.48	2.3	SR12	5/14/2017 6:31	26.34	67.1	5.41	5.9	SR12	5/14/2017 12:31	26.76	67.5	5.44	4.8	SR12	5/14/2017 18:31	27.21	66.6	5.37	3.4
SR12	5/14/2017 0:36	26.34	68.0	5.48	4.1	SR12	5/14/2017 6:36	26.32	68.1	5.49	4.6	SR12	5/14/2017 12:36	26.77	67.3	5.43	3.1	SR12	5/14/2017 18:36	27.10	66.0	5.32	3.4
SR12	5/14/2017 0:41	26.36	67.6	5.45	2.3	SR12	5/14/2017 6:41	26.32	68.2	5.50	3.2	SR12	5/14/2017 12:41	26.81	67.2	5.42	5.5	SR12	5/14/2017 18:41	27.18	62.4	5.03	1.6
SR12	5/14/2017 0:46	26.36	67.3	5.43	4.3	SR12	5/14/2017 6:46	26.28	67.6	5.45	4.5	SR12	5/14/2017 12:46	26.83	67.1	5.41	4.2	SR12	5/14/2017 18:46	27.21	68.6	5.53	5.0
SR12	5/14/2017 0:51	26.38	68.8	5.55	5.3	SR12	5/14/2017 6:51	26.24	67.8	5.47	6.3	SR12	5/14/2017 12:51	26.84	67.2	5.42	3.3	SR12	5/14/2017 18:51	27.24	66.8	5.39	5.0
SR12	5/14/2017 0:56	26.38	68.2	5.50	4.3	SR12	5/14/2017 6:56	26.26	68.4	5.52	6.3	SR12	5/14/2017 12:56	26.84	68.7	5.54	4.0	SR12	5/14/2017 18:56	27.26	67.7	5.46	4.8
SR12	5/14/2017 1:01	26.39	67.7	5.46	4.5	SR12	5/14/2017 7:01	26.27	68.4	5.52	6.3	SR12	5/14/2017 13:01	26.82	67.2	5.42	6.0	SR12	5/14/2017 19:01	27.26	68.6	5.53	7.4
SR12	5/14/2017 1:06	26.38	68.8	5.55	4.6	SR12	5/14/2017 7:06	26.27	67.2	5.42	3.3	SR12	5/14/2017 13:06	26.86	68.6	5.53	5.6	SR12	5/14/2017 19:06	27.24	67.0	5.40	3.6
SR12	5/14/2017 1:11	26.36	68.1	5.49	3.5	SR12	5/14/2017 7:11	26.26	68.2	5.50	5.1	SR12	5/14/2017 13:11	26.85	68.6	5.53	5.7	SR12	5/14/2017 19:11	27.20	64.0	5.16	6.5
SR12	5/14/2017 1:16	26.39	67.5	5.44	5.4	SR12	5/14/2017 7:16	26.28	67.8	5.47	4.9	SR12	5/14/2017 13:16	26.84	67.5	5.44	3.3	SR12	5/14/2017 19:16	27.20	65.5	5.28	7.1
SR12	5/14/2017 1:21	26.31	68.6	5.53	5.5	SR12	5/14/2017 7:21	26.29	68.0	5.48	3.6	SR12	5/14/2017 13:21	26.87	67.8	5.47	2.8	SR12	5/14/2017 19:21	27.16	62.4	5.03	5.6
SR12	5/14/2017 1:26	26.31	68.0	5.48	4.8	SR12	5/14/2017 7:26	26.29	67.7	5.46	4.5	SR12	5/14/2017 13:26	26.92	67.2	5.42	6.0	SR12	5/14/2017 19:26	27.29	64.0	5.16	7.7
SR12	5/14/2017 1:31	26.28	67.1	5.41	6.4	SR12	5/14/2017 7:31	26.32	68.6	5.53	3.3	SR12	5/14/2017 13:31	26.89	68.7	5.54	4.1	SR12	5/14/2017 19:31	27.32	66.3	5.35	2.5
SR12	5/14/2017 1:36	26.26	68.2	5.50	4.7	SR12	5/14/2017 7:36	26.33	67.5	5.44	2.4	SR12	5/14/2017 13:36	26.95	68.7	5.54	3.7	SR12	5/14/2017 19:36	27.41	66.7	5.38	6.8
SR12	5/14/2017 1:41	26.30	67.3	5.43	5.9	SR12	5/14/2017 7:41	26.33	68.2	5.50	4.8	SR12	5/14/2017 13:41	27.09	68.6	5.53	6.2	SR12	5/14/2017 19:41	27.39	67.1	5.41	6.3
SR12	5/14/2017 1:46	26.25	68.6	5.53	4.4	SR12	5/14/2017 7:46	26.33	68.7	5.54	6.1	SR12	5/14/2017 13:46	27.17	67.6	5.45	2.7	SR12	5/14/2017 19:46	27.39	67.8	5.47	5.0
SR12	5/14/2017 1:51	26.23	68.1	5.49	6.4	SR12	5/14/2017 7:51	26.31	68.3	5.51	5.4	SR12	5/14/2017 13:51	27.22	68.7	5.54	4.4	SR12	5/14/2017 19:51	27.38	64.5	5.20	4.4
SR12	5/14/2017 1:56	26.22	67.6	5.45	5.9	SR12	5/14/2017 7:56	26.29	68.2	5.50	5.7	SR12	5/14/2017 13:56	27.13	68.7	5.54	5.4	SR12	5/14/2017 19:56	27.35	63.9	5.15	1.7
SR12	5/14/2017 2:01	26.25	67.5	5.44	3.7	SR12	5/14/2017 8:01	26.28	67.5	5.44	3.9	SR12	5/14/2017 14:01	26.80	67.5	5.44	4.0	SR12	5/14/2017 20:01	27.33	66.7	5.38	6.0
SR12	5/14/2017 2:06	26.26	67.7	5.46	4.5	SR12	5/14/2017 8:06	26.28	68.2	5.50	3.4	SR12	5/14/2017 14:06	26.84	68.6	5.53	6.3	SR12	5/14/2017 20:06	27.29	67.2	5.42	4.6
SR12	5/14/2017 2:11	26.27	68.4	5.52	4.8	SR12	5/14/2017 8:11	26.27	68.4	5.52	4.7	SR12	5/14/2017 14:11	26.74	67.3	5.43	3.3	SR12	5/14/2017 20:11	27.24	65.8	5.31	5.0
SR12	5/14/2017 2:16	26.29	67.1	5.41	5.9	SR12	5/14/2017 8:16	26.27	68.4	5.52	4.7	SR12	5/14/2017 14:16	26.96	67.8	5.47	6.1	SR12	5/14/2017 20:16	27.24	62.9	5.07	2.6
SR12	5/14/2017 2:21	26.30	68.7	5.54	2.8	SR12	5/14/2017 8:21	26.27	68.7	5.54	3.5	SR12	5/14/2017 14:21	27.27	67.7	5.46	6.1	SR12	5/14/2017 20:21	27.23	63.9	5.15	5.7
SR12	5/14/2017 2:26	26.29	68.8	5.55	4.5	SR12	5/14/2017 8:26	26.25	67.8	5.47	5.4	SR12	5/14/2017 14:26	27.22	68.4	5.52	3.6	SR12	5/14/2017 20:26	27.22	65.9	5.28	3.6
SR12	5/14/2017 2:31	26.29	67.2	5.42	2.6	SR12	5/14/2017 8:31	26.24	67.6	5.45	3.4	SR12	5/14/2017 14:31	27.19	67.7	5.46	4.7	SR12	5/14/2017 20:31	27.09	66.8	5.39	5.9
SR12	5/14/2017 2:36	26.30	68.0	5.48	5.9	SR12	5/14/2017 8:36	26.24	68.2	5.50	3.2	SR12	5/14/2017 14:36	27.05	67.3	5.43	6.0	SR12	5/14/2017 20:36	27.03	65.1	5.25	6.1
SR12	5/14/2017 2:41	26.36	67.2	5.42	4.9	SR12	5/14/2017 8:41	26.24	68.7	5.54	4.3	SR12	5/14/2017 14:41	27.12	67.8	5.47	6.0	SR12	5/14/2017 20:41	27.03	63.6	5.13	4.0
SR12	5/14/2017 2:46	26.37	68.4	5.52	6.4	SR12	5/14/2017 8:46	26.24	68.4	5.52	2.9	SR12	5/14/2017 14:46	26.69	68.6	5.53	4.1	SR12	5/14/2017 20:46	27.07	62.4	5.03	5.9
SR12	5/14/2017 2:51	26.35	68.7	5.54	3.2	SR12	5/14/2017 8:51	26.25	68.2	5.50	4.0	SR12	5/14/2017 14:51	26.59	68.4	5.52	6.3	SR12	5/14/2017 20:51	27.11	64.7	5.22	5.1
SR12	5/14/2017 2:56	26.33	67.3	5.43	2.6	SR12	5/14/2017 8:56	26.27	68.1	5.49	4.8	SR12	5/14/2017 14:56	26.53	68.7	5.54	3.6	SR12	5/14/2017 20:56	27.16	62.4	5.03	6.6
SR12	5/14/2017 3:01	26.34	68.7	5.54	2.4	SR12	5/14/2017 9:01	26.27	67.6	5.45	3.3	SR12	5/14/2017 15:01	26.57	67.1	5.41	4.0	SR12	5/14/2017 21:01	27.19	63.9	5.15	2.5
SR12	5/14/2017 3:06	26.28	67.7	5.46	6.0	SR12	5/14/2017 9:06	26.29	68.8	5.55	4.2	SR12	5/14/2017 15:06	26.67	68.4	5.52	5.6	SR12	5/14/2017 21:06	27.19	65.7	5.30	7.2
SR12	5/14/2017 3:11	26.26	67.3	5.43	4.8	SR12	5/14/2017 9:11	26.28	68.3	5.51	2.8	SR12	5/14/2017 15:11	26.92	68.8	5.55	3.1	SR12	5/14/2017 21:11	27.16	66.8	5.39	2.7
SR12	5/14/2017 3:16	26.27	68.3	5.51	3.5	SR12	5/14/2017 9:16	26.28	68.4	5.52	5.5	SR12	5/14/2017 15:16	27.05	68.3	5.51	3.1	SR12	5/14/2017 21:16	27.15	63.4	5.11	5.9
SR12	5/14/2017 3:21	26.21	68.6	5.53	6.4	SR12	5/14/2017 9:21	26.28	68.6	5.53	4.7	SR12	5/14/2017 15:21	27.20	67.7	5.46	4.3	SR12	5/14/2017 21:21	27.14	66.5	5.36	2.1
SR12	5/14/2017 3:26	26.14	68.1	5.49	4.2	SR12	5/14/2017 9:26	26.33	68.6	5.53	4.5	SR12	5/14/2017 15:26	27.27	67.3	5.43	3.3	SR12	5/14/2017 21:26	27.10	63.6	5.13	5.5
SR12	5/14/2017 3:31	26.21	68.3	5.51	4.4	SR12	5/14/2017 9:31	26.33	67.3	5.43	2.5	SR12	5/14/2017 15:31	27.20	67.7	5.46	3.0	SR12	5/14/2017 21:31	27.08	66.3	5.35	7.1
SR12	5/14/2017 3:36	26.20	68.7	5.54	2.7	SR12	5/14/2017 9:36	26.33	68.3	5.51	5.5	SR12	5/14/2017 15:36	27.12	68.0	5.48	3.3	SR12	5/14/2017 21:36	27.05	65.3	5.27	7.0
SR12	5/14/2017 3:41	26.21	68.8	5.55	3.3	SR12	5/14/2017 9:41	26.35	67.2	5.42	3.5	SR12	5/14/2017 15:41	26.75	67.2	5.42	2.5	SR12	5/14/2017 21:41	27.03	65.8	5.31	6.6
SR12	5/14/2017 3:46	26.21	68.1	5.49	3.5	SR12	5/14/2017 9:46	26.34	67.8	5.47	6.3	SR12	5/14/2017 15:46	26.84	68.1	5.49	5.6	SR12	5/14/2017 21:46	26.95	68.8	5.55	7.5
SR12	5/14/2017 3:51	26.19	67.6	5.45	4.2	SR12	5/14/2017 9:51	26.36	67.3	5.43	4.6	SR12	5/14/2017 15:51	26.92	67.2	5.42	4.5	SR12</					

24-hr Water Quality Monitoring

Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)
SR13	5/14/2017 0:00	26.53	64.3	5.14	7.2	SR13	5/14/2017 6:00	27.45	63.3	5.06	8.6	SR13	5/14/2017 12:00	26.19	63.8	5.10	8.8	SR13	5/14/2017 18:00	27.30	67.3	5.38	7.2
SR13	5/14/2017 0:05	26.51	63.9	5.11	9.2	SR13	5/14/2017 6:05	27.38	64.4	5.15	7.3	SR13	5/14/2017 12:05	26.16	63.8	5.10	8.5	SR13	5/14/2017 18:05	27.31	67.4	5.39	3.7
SR13	5/14/2017 0:10	26.51	63.8	5.10	7.3	SR13	5/14/2017 6:10	27.59	64.0	5.12	8.0	SR13	5/14/2017 12:10	26.14	63.4	5.07	8.4	SR13	5/14/2017 18:10	27.27	66.3	5.30	5.4
SR13	5/14/2017 0:15	26.50	63.1	5.05	9.1	SR13	5/14/2017 6:15	27.48	64.3	5.14	9.4	SR13	5/14/2017 12:15	26.12	63.3	5.06	6.0	SR13	5/14/2017 18:15	27.28	66.1	5.29	7.2
SR13	5/14/2017 0:20	26.49	63.4	5.07	8.1	SR13	5/14/2017 6:20	27.55	63.3	5.06	6.7	SR13	5/14/2017 12:20	26.11	63.9	5.11	6.4	SR13	5/14/2017 18:20	27.21	66.5	5.32	6.9
SR13	5/14/2017 0:25	26.49	64.5	5.16	8.5	SR13	5/14/2017 6:25	27.40	64.0	5.12	9.1	SR13	5/14/2017 12:25	26.09	64.1	5.13	6.1	SR13	5/14/2017 18:25	27.14	66.5	5.32	4.2
SR13	5/14/2017 0:30	26.48	64.1	5.13	8.9	SR13	5/14/2017 6:30	27.39	63.4	5.07	8.0	SR13	5/14/2017 12:30	26.08	63.3	5.06	6.9	SR13	5/14/2017 18:30	27.08	66.6	5.33	4.5
SR13	5/14/2017 0:35	26.46	63.9	5.11	6.2	SR13	5/14/2017 6:35	27.50	64.5	5.16	6.9	SR13	5/14/2017 12:35	26.10	63.8	5.10	9.1	SR13	5/14/2017 18:35	27.02	66.5	5.32	5.3
SR13	5/14/2017 0:40	26.44	64.0	5.12	7.0	SR13	5/14/2017 6:40	27.58	63.8	5.10	6.3	SR13	5/14/2017 12:40	26.13	63.4	5.07	8.3	SR13	5/14/2017 18:40	26.97	66.1	5.29	6.4
SR13	5/14/2017 0:45	26.41	63.5	5.08	7.4	SR13	5/14/2017 6:45	27.35	64.0	5.12	9.1	SR13	5/14/2017 12:45	26.07	64.1	5.13	6.3	SR13	5/14/2017 18:45	26.91	67.8	5.42	4.0
SR13	5/14/2017 0:50	26.38	63.9	5.11	7.2	SR13	5/14/2017 6:50	27.58	63.8	5.10	7.8	SR13	5/14/2017 12:50	26.15	63.5	5.08	9.3	SR13	5/14/2017 18:50	26.95	66.9	5.35	6.5
SR13	5/14/2017 0:55	26.37	63.6	5.09	6.6	SR13	5/14/2017 6:55	27.46	63.1	5.05	6.5	SR13	5/14/2017 12:55	26.16	64.4	5.15	6.7	SR13	5/14/2017 18:55	27.14	67.4	5.39	3.2
SR13	5/14/2017 1:00	26.36	63.1	5.05	6.7	SR13	5/14/2017 7:00	27.42	63.5	5.08	6.9	SR13	5/14/2017 13:00	26.17	64.5	5.16	7.6	SR13	5/14/2017 19:00	27.18	67.5	5.40	3.6
SR13	5/14/2017 1:05	26.36	64.3	5.14	7.3	SR13	5/14/2017 7:05	27.36	63.4	5.07	6.7	SR13	5/14/2017 13:05	26.16	64.4	5.15	9.1	SR13	5/14/2017 19:05	27.25	66.1	5.29	6.2
SR13	5/14/2017 1:10	26.36	64.1	5.13	6.2	SR13	5/14/2017 7:10	27.55	63.3	5.06	6.3	SR13	5/14/2017 13:10	26.20	63.6	5.09	7.5	SR13	5/14/2017 19:10	27.23	66.9	5.35	3.6
SR13	5/14/2017 1:15	26.35	63.8	5.10	8.2	SR13	5/14/2017 7:15	27.41	63.8	5.10	6.9	SR13	5/14/2017 13:15	26.16	63.8	5.10	9.0	SR13	5/14/2017 19:15	27.23	67.1	5.37	6.1
SR13	5/14/2017 1:20	26.34	64.1	5.13	8.3	SR13	5/14/2017 7:20	27.65	63.5	5.08	7.7	SR13	5/14/2017 13:20	26.21	63.3	5.06	6.5	SR13	5/14/2017 19:20	27.20	66.9	5.35	5.5
SR13	5/14/2017 1:25	26.34	63.9	5.11	7.0	SR13	5/14/2017 7:25	27.47	63.5	5.08	6.5	SR13	5/14/2017 13:25	26.22	64.4	5.15	6.8	SR13	5/14/2017 19:25	27.20	66.5	5.32	4.0
SR13	5/14/2017 1:30	26.33	63.5	5.08	7.8	SR13	5/14/2017 7:30	27.52	63.8	5.10	8.9	SR13	5/14/2017 13:30	26.20	64.5	5.16	8.8	SR13	5/14/2017 19:30	27.21	66.8	5.34	5.2
SR13	5/14/2017 1:35	26.33	63.8	5.10	9.4	SR13	5/14/2017 7:35	27.61	64.1	5.13	7.1	SR13	5/14/2017 13:35	26.09	63.6	5.09	8.1	SR13	5/14/2017 19:35	27.21	66.5	5.32	4.7
SR13	5/14/2017 1:40	26.32	64.4	5.15	6.5	SR13	5/14/2017 7:40	27.30	64.1	5.13	9.0	SR13	5/14/2017 13:40	26.17	63.8	5.10	6.5	SR13	5/14/2017 19:40	27.23	66.4	5.31	4.6
SR13	5/14/2017 1:45	26.32	63.8	5.10	6.1	SR13	5/14/2017 7:45	27.55	64.3	5.14	9.0	SR13	5/14/2017 13:45	26.20	63.9	5.11	7.1	SR13	5/14/2017 19:45	27.24	66.3	5.30	4.4
SR13	5/14/2017 1:50	26.32	63.5	5.08	8.9	SR13	5/14/2017 7:50	27.35	64.5	5.16	8.3	SR13	5/14/2017 13:50	26.25	64.1	5.13	6.2	SR13	5/14/2017 19:50	27.25	67.0	5.36	3.2
SR13	5/14/2017 1:55	26.32	64.5	5.16	7.5	SR13	5/14/2017 7:55	27.56	63.6	5.09	8.1	SR13	5/14/2017 13:55	26.44	64.5	5.16	8.4	SR13	5/14/2017 19:55	27.26	66.3	5.30	6.2
SR13	5/14/2017 2:00	26.33	64.3	5.14	8.1	SR13	5/14/2017 8:00	27.30	63.5	5.08	8.0	SR13	5/14/2017 14:00	26.62	63.1	5.05	9.5	SR13	5/14/2017 20:00	27.26	66.0	5.28	3.7
SR13	5/14/2017 2:05	26.33	63.4	5.07	7.2	SR13	5/14/2017 8:05	27.47	63.8	5.10	8.3	SR13	5/14/2017 14:05	26.48	64.0	5.12	9.1	SR13	5/14/2017 20:05	27.25	67.6	5.41	6.1
SR13	5/14/2017 2:10	26.33	64.3	5.14	6.6	SR13	5/14/2017 8:10	27.41	64.3	5.14	7.0	SR13	5/14/2017 14:10	26.67	63.3	5.06	6.2	SR13	5/14/2017 20:10	27.25	67.1	5.37	5.5
SR13	5/14/2017 2:15	26.32	63.6	5.09	7.8	SR13	5/14/2017 8:15	27.31	63.1	5.05	8.9	SR13	5/14/2017 14:15	26.40	64.0	5.12	6.5	SR13	5/14/2017 20:15	27.24	67.8	5.42	3.7
SR13	5/14/2017 2:20	26.32	63.1	5.05	9.5	SR13	5/14/2017 8:20	27.42	63.3	5.06	7.8	SR13	5/14/2017 14:20	26.35	63.3	5.06	9.2	SR13	5/14/2017 20:20	27.25	67.4	5.39	4.7
SR13	5/14/2017 2:25	26.30	64.0	5.12	7.5	SR13	5/14/2017 8:25	27.36	63.6	5.09	7.2	SR13	5/14/2017 14:25	26.24	63.3	5.06	9.3	SR13	5/14/2017 20:25	27.25	66.6	5.33	6.0
SR13	5/14/2017 2:30	26.30	63.9	5.11	6.4	SR13	5/14/2017 8:30	27.49	64.5	5.16	9.1	SR13	5/14/2017 14:30	26.15	63.3	5.06	8.5	SR13	5/14/2017 20:30	27.25	66.9	5.35	6.0
SR13	5/14/2017 2:35	26.28	64.3	5.14	7.7	SR13	5/14/2017 8:35	26.26	63.4	5.07	7.0	SR13	5/14/2017 14:35	26.47	63.4	5.07	7.4	SR13	5/14/2017 20:35	27.25	66.3	5.30	6.5
SR13	5/14/2017 2:40	26.27	64.5	5.16	8.8	SR13	5/14/2017 8:40	26.24	64.0	5.12	7.9	SR13	5/14/2017 14:40	26.44	63.8	5.10	8.7	SR13	5/14/2017 20:40	27.25	66.4	5.31	5.5
SR13	5/14/2017 2:45	26.27	63.8	5.10	8.7	SR13	5/14/2017 8:45	26.22	64.0	5.12	6.3	SR13	5/14/2017 14:45	26.47	63.1	5.05	9.3	SR13	5/14/2017 20:45	27.23	66.5	5.32	6.7
SR13	5/14/2017 2:50	26.27	64.5	5.16	8.7	SR13	5/14/2017 8:50	26.22	64.0	5.12	13.3	SR13	5/14/2017 14:50	26.48	63.4	5.07	6.0	SR13	5/14/2017 20:50	27.20	67.8	5.42	5.5
SR13	5/14/2017 2:55	26.26	63.5	5.08	7.9	SR13	5/14/2017 8:55	26.24	63.8	5.10	9.3	SR13	5/14/2017 14:55	26.45	63.5	5.08	6.7	SR13	5/14/2017 20:55	27.14	67.4	5.39	3.5
SR13	5/14/2017 3:00	26.25	63.1	5.05	8.7	SR13	5/14/2017 9:00	26.24	64.3	5.14	9.2	SR13	5/14/2017 15:00	26.38	63.1	5.05	7.0	SR13	5/14/2017 21:00	27.09	67.5	5.40	5.1
SR13	5/14/2017 3:05	26.25	63.6	5.09	7.4	SR13	5/14/2017 9:05	26.28	64.3	5.14	9.1	SR13	5/14/2017 15:05	26.40	64.4	5.15	8.9	SR13	5/14/2017 21:05	27.06	67.4	5.39	5.6
SR13	5/14/2017 3:10	26.25	63.3	5.06	6.0	SR13	5/14/2017 9:10	26.28	63.6	5.09	6.8	SR13	5/14/2017 15:10	26.45	64.4	5.15	7.0	SR13	5/14/2017 21:10	27.01	67.6	5.41	4.7
SR13	5/14/2017 3:15	26.26	63.9	5.11	8.6	SR13	5/14/2017 9:15	26.29	63.1	5.05	8.8	SR13	5/14/2017 15:15	26.44	63.3	5.06	9.4	SR13	5/14/2017 21:15	26.95	66.9	5.35	3.3
SR13	5/14/2017 3:20	26.28	64.5	5.16	7.1	SR13	5/14/2017 9:20	26.28	64.3	5.14	9.2	SR13	5/14/2017 15:20	26.49	64.3	5.14	9.3	SR13	5/14/2017 21:20	26.92	67.6	5.41	4.8
SR13	5/14/2017 3:25	26.36	63.5	5.08	9.0	SR13	5/14/2017 9:25	26.25	64.0	5.12	8.1	SR13	5/14/2017 15:25	26.62	63.6	5.09	9.2	SR13	5/14/2017 21:25	26.96	66.8	5.34	6.3
SR13	5/14/2017 3:30	26.42	63.1	5.05	6.5	SR13	5/14/2017 9:30	26.24	63.3	5.06	8.4	SR13	5/14/2017 15:30	26.68	64.4	5.15	8.5	SR13	5/14/2017 21:30	27.02	66.8	5.34	5.5
SR13	5/14/2017 3:35	26.51	64.4	5.15	7.6	SR13	5/14/2017 9:35	26.24	63.5	5.08	8.7	SR13	5/14/2017 15:35	26.62	63.4	5.07	6.0	SR13	5/14/2017 21:35	27.00	67.4	5.39	5.9
SR13	5/14/2017 3:40	26.58	64.1	5.13	7.9	SR13	5/14/2017 9:40	26.24	64.3	5.14	6.1	SR13	5/14/2017 15:40	26.60	63.9	5.11	8.8	SR13	5/14/2017 21:40	27.04	67.3	5.38	5.5
SR13	5/14/2017 3:45	26.66	63.5	5.08	8.0	SR13	5/14/2017 9:45	26.25	63.5	5.08	7.0	SR13	5/14/2017 15:45	26.59	64.4	5.15	7.7	SR13	5/14/2017 21:45	27.07	67.8	5.42	4.4
SR13	5/14/2017 3:50	26.77	64.3	5.14	7.7	SR13	5/14/2017 9:50	26.24	64.5	5.16	7.1	SR13	5/14/2017 15:50	26.74	63.4	5.07	6.5</						

24-hr Water Quality Monitoring

Station	Timestamp	NH <sub>3</sub> (mg/L)				Station	Timestamp	NH <sub>3</sub> (mg/L)			
SR4	5/14/2017 0:17	0.15				SR12	5/14/2017 0:17	0.19			
SR4	5/14/2017 0:37	0.17				SR12	5/14/2017 0:37	0.18			
SR4	5/14/2017 0:57	0.15				SR12	5/14/2017 0:57	0.20			
SR4	5/14/2017 1:17	0.17				SR12	5/14/2017 1:17	0.17			
SR4	5/14/2017 1:37	0.17				SR12	5/14/2017 1:37	0.19			
SR4	5/14/2017 1:57	0.14				SR12	5/14/2017 1:57	0.16			
SR4	5/14/2017 2:17	0.13				SR12	5/14/2017 2:17	0.19			
SR4	5/14/2017 2:37	0.17				SR12	5/14/2017 2:37	0.18			
SR4	5/14/2017 2:57	0.15				SR12	5/14/2017 2:57	0.16			
SR4	5/14/2017 3:17	0.15				SR12	5/14/2017 3:17	0.19			
SR4	5/14/2017 3:37	0.13				SR12	5/14/2017 3:37	0.16			
SR4	5/14/2017 3:57	0.16				SR12	5/14/2017 3:57	0.20			
SR4	5/14/2017 4:17	0.15				SR12	5/14/2017 4:17	0.20			
SR4	5/14/2017 4:37	0.15				SR12	5/14/2017 4:37	0.18			
SR4	5/14/2017 4:57	0.15				SR12	5/14/2017 4:57	0.17			
SR4	5/14/2017 5:17	0.16				SR12	5/14/2017 5:17	0.17			
SR4	5/14/2017 5:37	0.17				SR12	5/14/2017 5:37	0.20			
SR4	5/14/2017 5:57	0.17				SR12	5/14/2017 5:57	0.19			
SR4						SR12					
SR4	5/14/2017 6:37	0.17				SR12	5/14/2017 6:37	0.18			
SR4	5/14/2017 6:57	0.17				SR12	5/14/2017 6:57	0.17			
SR4	5/14/2017 7:17	0.15				SR12	5/14/2017 7:17	0.16			
SR4	5/14/2017 7:37	0.15				SR12	5/14/2017 7:37	0.19			
SR4	5/14/2017 7:57	0.17				SR12	5/14/2017 7:57	0.17			
SR4	5/14/2017 8:17	0.13				SR12	5/14/2017 8:17	0.17			
SR4	5/14/2017 8:37	0.13				SR12	5/14/2017 8:37	0.19			
SR4	5/14/2017 8:57	0.15				SR12	5/14/2017 8:57	0.17			
SR4	5/14/2017 9:17	0.13				SR12	5/14/2017 9:17	0.19			
SR4	5/14/2017 9:37	0.13				SR12	5/14/2017 9:37	0.20			
SR4	5/14/2017 9:57	0.16				SR12	5/14/2017 9:57	0.17			
SR4	5/14/2017 10:17	0.17				SR12	5/14/2017 10:17	0.20			
SR4	5/14/2017 10:37	0.14				SR12	5/14/2017 10:37	0.16			
SR4	5/14/2017 10:57	0.17				SR12	5/14/2017 10:57	0.20			
SR4	5/14/2017 11:17	0.13				SR12	5/14/2017 11:17	0.18			
SR4	5/14/2017 11:37	0.14				SR12	5/14/2017 11:37	0.20			
SR4	5/14/2017 11:57	0.13				SR12	5/14/2017 11:57	0.16			
SR4	5/14/2017 12:17	0.11				SR12	5/14/2017 12:17	0.17			
SR4	5/14/2017 12:37	0.11				SR12	5/14/2017 12:37	0.20			
SR4	5/14/2017 12:57	0.11				SR12	5/14/2017 12:57	0.16			
SR4	5/14/2017 13:17	0.11				SR12	5/14/2017 13:17	0.18			
SR4	5/14/2017 13:37	0.12				SR12	5/14/2017 13:37	0.18			
SR4	5/14/2017 13:57	0.14				SR12	5/14/2017 13:57	0.17			
SR4	5/14/2017 14:17	0.11				SR12	5/14/2017 14:17	0.19			
SR4	5/14/2017 14:37	0.12				SR12	5/14/2017 14:37	0.19			
SR4	5/14/2017 14:57	0.11				SR12	5/14/2017 14:57	0.17			
SR4	5/14/2017 15:17	0.11				SR12	5/14/2017 15:17	0.18			
SR4	5/14/2017 15:37	0.11				SR12	5/14/2017 15:37	0.18			
SR4	5/14/2017 15:57	0.11				SR12	5/14/2017 15:57	0.17			
SR4	5/14/2017 16:17	0.13				SR12	5/14/2017 16:17	0.16			
SR4	5/14/2017 16:37	0.12				SR12	5/14/2017 16:37	0.19			
SR4	5/14/2017 16:57	0.11				SR12	5/14/2017 16:57	0.17			
SR4	5/14/2017 17:17	0.12				SR12	5/14/2017 17:17	0.19			
SR4	5/14/2017 17:37	0.14				SR12	5/14/2017 17:37	0.18			
SR4	5/14/2017 17:57	0.13				SR12	5/14/2017 17:57	0.19			
SR4	5/14/2017 18:17	0.12				SR12	5/14/2017 18:17	0.19			
SR4	5/14/2017 18:37	0.13				SR12	5/14/2017 18:37	0.16			
SR4	5/14/2017 18:57	0.14				SR12	5/14/2017 18:57	0.18			
SR4	5/14/2017 19:17	0.13				SR12	5/14/2017 19:17	0.19			
SR4	5/14/2017 19:37	0.13				SR12	5/14/2017 19:37	0.18			
SR4	5/14/2017 19:57	0.11				SR12	5/14/2017 19:57	0.16			
SR4	5/14/2017 20:17	0.13				SR12	5/14/2017 20:17	0.16			
SR4	5/14/2017 20:37	0.14				SR12	5/14/2017 20:37	0.19			
SR4	5/14/2017 20:57	0.11				SR12	5/14/2017 20:57	0.18			
SR4	5/14/2017 21:17	0.11				SR12	5/14/2017 21:17	0.17			
SR4	5/14/2017 21:37	0.11				SR12	5/14/2017 21:37	0.17			
SR4	5/14/2017 21:57	0.14				SR12	5/14/2017 21:57	0.19			
SR4	5/14/2017 22:17	0.12				SR12	5/14/2017 22:17	0.19			
SR4	5/14/2017 22:37	0.14				SR12	5/14/2017 22:37	0.16			
SR4	5/14/2017 22:57	0.12				SR12	5/14/2017 22:57	0.16			
SR4	5/14/2017 23:17	0.13				SR12	5/14/2017 23:17	0.19			
SR4	5/14/2017 23:37	0.12				SR12	5/14/2017 23:37	0.16			
SR4	5/14/2017 23:57	0.13				SR12	5/14/2017 23:57	0.19			

Remark: Fonts with underline: Action Level Exceedance

**Fonts in Bold with underline: Limit Level Exceedance**

Automatic Instrument calibration of NH<sub>3</sub>-N monitor was carried out during 5:57-6:37 at SR4 and SR12.

## 24-hr Water Quality Monitoring

Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)
SR4	5/15/2017 0:01	27.02	65.9	5.36	7.5	SR4	5/15/2017 6:01	26.69	65.6	5.33	7.3	SR4	5/15/2017 12:01	26.70	66.4	5.40	6.0	SR4	5/15/2017 18:01	26.61	65.7	5.34	7.3
SR4	5/15/2017 0:06	26.98	65.9	5.36	5.9	SR4	5/15/2017 6:06	26.70	65.9	5.36	4.8	SR4	5/15/2017 12:06	26.69	66.4	5.40	4.3	SR4	5/15/2017 18:06	26.67	65.6	5.33	7.7
SR4	5/15/2017 0:11	26.97	65.8	5.35	5.4	SR4	5/15/2017 6:11	26.76	66.3	5.39	8.0	SR4	5/15/2017 12:11	26.66	66.6	5.33	4.5	SR4	5/15/2017 18:11	26.66	65.8	5.35	8.1
SR4	5/15/2017 0:16	26.96	65.4	5.32	6.9	SR4	5/15/2017 6:16	26.74	66.5	5.41	5.6	SR4	5/15/2017 12:16	26.66	66.4	5.40	7.2	SR4	5/15/2017 18:16	26.64	66.3	5.39	6.7
SR4	5/15/2017 0:21	26.98	66.2	5.38	7.0	SR4	5/15/2017 6:21	26.72	66.3	5.31	8.0	SR4	5/15/2017 12:21	26.62	66.6	5.40	7.2	SR4	5/15/2017 18:21	26.62	65.6	5.33	8.1
SR4	5/15/2017 0:26	26.98	66.5	5.41	7.0	SR4	5/15/2017 6:26	26.71	66.1	5.37	4.5	SR4	5/15/2017 12:26	26.62	66.6	5.40	7.2	SR4	5/15/2017 18:26	26.59	66.4	5.40	7.7
SR4	5/15/2017 0:31	26.97	65.3	5.31	7.6	SR4	5/15/2017 6:31	26.69	65.3	5.31	5.0	SR4	5/15/2017 12:31	26.62	66.6	5.40	7.2	SR4	5/15/2017 18:31	26.62	65.3	5.31	7.1
SR4	5/15/2017 0:36	26.98	66.4	5.40	4.3	SR4	5/15/2017 6:36	26.68	65.8	5.35	5.3	SR4	5/15/2017 12:36	26.68	66.6	5.40	7.2	SR4	5/15/2017 18:36	26.65	65.8	5.35	6.7
SR4	5/15/2017 0:41	26.99	66.4	5.40	6.3	SR4	5/15/2017 6:41	26.67	65.6	5.33	6.6	SR4	5/15/2017 12:41	26.63	66.6	5.40	7.2	SR4	5/15/2017 18:41	26.63	65.4	5.32	5.2
SR4	5/15/2017 0:46	26.98	65.3	5.31	6.5	SR4	5/15/2017 6:46	26.66	66.2	5.38	4.2	SR4	5/15/2017 12:46	26.71	66.6	5.40	7.2	SR4	5/15/2017 18:46	26.71	66.3	5.39	7.5
SR4	5/15/2017 0:51	26.97	65.8	5.35	4.9	SR4	5/15/2017 6:51	26.67	66.3	5.39	6.7	SR4	5/15/2017 12:51	26.68	66.6	5.40	7.2	SR4	5/15/2017 18:51	26.68	65.9	5.36	7.3
SR4	5/15/2017 0:56	26.95	65.4	5.32	7.3	SR4	5/15/2017 6:56	26.68	65.8	5.35	4.6	SR4	5/15/2017 12:56	26.67	66.6	5.40	7.2	SR4	5/15/2017 18:56	26.67	66.1	5.37	6.0
SR4	5/15/2017 1:01	26.96	65.3	5.31	6.5	SR4	5/15/2017 7:01	26.69	65.8	5.35	7.1	SR4	5/15/2017 13:01	26.67	66.6	5.40	7.2	SR4	5/15/2017 19:01	26.67	66.1	5.37	5.5
SR4	5/15/2017 1:06	26.94	66.4	5.40	6.7	SR4	5/15/2017 7:06	26.84	65.4	5.32	4.5	SR4	5/15/2017 13:06	26.65	66.6	5.40	7.2	SR4	5/15/2017 19:06	26.65	66.5	5.41	4.9
SR4	5/15/2017 1:11	26.95	65.4	5.32	6.7	SR4	5/15/2017 7:11	26.87	65.8	5.35	5.0	SR4	5/15/2017 13:11	26.67	66.6	5.40	7.2	SR4	5/15/2017 19:11	26.74	66.5	5.41	6.3
SR4	5/15/2017 1:16	26.96	66.2	5.38	8.4	SR4	5/15/2017 7:16	26.89	65.8	5.35	5.6	SR4	5/15/2017 13:16	26.68	66.6	5.40	7.2	SR4	5/15/2017 19:16	26.83	66.5	5.41	7.9
SR4	5/15/2017 1:21	26.95	65.9	5.36	4.4	SR4	5/15/2017 7:21	26.75	65.3	5.31	6.3	SR4	5/15/2017 13:21	26.68	66.6	5.40	7.2	SR4	5/15/2017 19:21	26.85	66.1	5.37	7.1
SR4	5/15/2017 1:26	26.93	65.9	5.36	7.6	SR4	5/15/2017 7:26	26.86	65.9	5.36	7.5	SR4	5/15/2017 13:26	26.69	66.6	5.40	7.2	SR4	5/15/2017 19:26	26.71	65.6	5.33	5.0
SR4	5/15/2017 1:31	26.93	66.3	5.39	5.7	SR4	5/15/2017 7:31	26.85	65.7	5.34	6.2	SR4	5/15/2017 13:31	26.76	66.6	5.40	7.2	SR4	5/15/2017 19:31	26.76	65.4	5.32	4.5
SR4	5/15/2017 1:36	26.87	66.1	5.37	6.3	SR4	5/15/2017 7:36	26.84	65.7	5.34	4.6	SR4	5/15/2017 13:36	26.72	66.6	5.40	7.2	SR4	5/15/2017 19:36	26.72	66.3	5.39	5.4
SR4	5/15/2017 1:41	26.92	65.7	5.34	7.8	SR4	5/15/2017 7:41	26.82	65.4	5.32	5.4	SR4	5/15/2017 13:41	26.60	66.5	5.41	5.1	SR4	5/15/2017 19:41	26.74	66.4	5.40	8.3
SR4	5/15/2017 1:46	26.91	65.8	5.35	8.0	SR4	5/15/2017 7:46	26.82	65.3	5.31	7.3	SR4	5/15/2017 13:46	26.60	66.2	5.38	4.7	SR4	5/15/2017 19:46	26.70	65.7	5.34	5.9
SR4	5/15/2017 1:51	26.90	66.3	5.39	5.3	SR4	5/15/2017 7:51	26.81	65.8	5.35	4.8	SR4	5/15/2017 13:51	26.59	66.5	5.41	5.7	SR4	5/15/2017 19:51	26.69	66.5	5.41	6.6
SR4	5/15/2017 1:56	26.88	65.8	5.35	4.8	SR4	5/15/2017 7:56	26.81	65.4	5.32	7.7	SR4	5/15/2017 13:56	26.63	66.5	5.41	6.4	SR4	5/15/2017 19:56	26.67	66.3	5.39	6.3
SR4	5/15/2017 2:01	26.87	66.5	5.41	5.3	SR4	5/15/2017 8:01	26.81	66.1	5.37	4.7	SR4	5/15/2017 14:01	26.64	66.5	5.41	6.8	SR4	5/15/2017 20:01	26.69	66.4	5.40	7.9
SR4	5/15/2017 2:06	26.88	65.4	5.32	6.4	SR4	5/15/2017 8:06	26.79	65.3	5.31	6.8	SR4	5/15/2017 14:06	26.61	66.6	5.40	7.2	SR4	5/15/2017 20:06	26.70	66.2	5.38	6.8
SR4	5/15/2017 2:11	26.87	66.2	5.38	7.6	SR4	5/15/2017 8:11	26.79	66.3	5.39	6.7	SR4	5/15/2017 14:11	26.62	66.5	5.36	4.8	SR4	5/15/2017 20:11	26.72	65.4	5.32	7.7
SR4	5/15/2017 2:16	26.87	65.6	5.33	6.2	SR4	5/15/2017 8:16	26.82	66.3	5.39	7.7	SR4	5/15/2017 14:16	26.63	66.7	5.34	7.7	SR4	5/15/2017 20:16	26.72	65.8	5.35	5.4
SR4	5/15/2017 2:21	26.85	66.4	5.40	8.0	SR4	5/15/2017 8:21	26.80	66.4	5.40	5.2	SR4	5/15/2017 14:21	26.65	66.8	5.35	6.2	SR4	5/15/2017 20:21	26.72	66.2	5.38	4.4
SR4	5/15/2017 2:26	26.85	66.1	5.37	7.7	SR4	5/15/2017 8:26	26.77	65.3	5.31	8.6	SR4	5/15/2017 14:26	26.67	66.4	5.40	4.6	SR4	5/15/2017 20:26	26.70	65.3	5.31	6.8
SR4	5/15/2017 2:31	26.85	65.3	5.31	7.5	SR4	5/15/2017 8:31	26.79	66.4	5.40	5.9	SR4	5/15/2017 14:31	26.67	66.4	5.32	8.6	SR4	5/15/2017 20:31	26.69	65.6	5.33	7.7
SR4	5/15/2017 2:36	26.84	65.6	5.33	4.8	SR4	5/15/2017 8:36	26.74	66.3	5.39	7.2	SR4	5/15/2017 14:36	26.70	66.7	5.34	6.3	SR4	5/15/2017 20:36	26.69	65.3	5.31	8.1
SR4	5/15/2017 2:41	26.83	66.3	5.39	5.5	SR4	5/15/2017 8:41	26.74	66.3	5.39	6.0	SR4	5/15/2017 14:41	26.66	65.7	5.34	4.2	SR4	5/15/2017 20:41	26.69	65.8	5.35	4.2
SR4	5/15/2017 2:46	26.82	65.8	5.35	4.5	SR4	5/15/2017 8:46	26.72	66.3	5.39	6.6	SR4	5/15/2017 14:46	26.63	65.8	5.35	5.2	SR4	5/15/2017 20:46	26.68	65.7	5.34	8.6
SR4	5/15/2017 2:51	26.81	65.4	5.32	5.6	SR4	5/15/2017 8:51	26.69	66.2	5.38	5.7	SR4	5/15/2017 14:51	26.61	65.7	5.34	6.0	SR4	5/15/2017 20:51	26.69	65.7	5.34	7.2
SR4	5/15/2017 2:56	26.78	66.2	5.38	6.0	SR4	5/15/2017 8:56	26.70	66.2	5.38	8.0	SR4	5/15/2017 14:56	26.61	66.4	5.40	8.4	SR4	5/15/2017 20:56	26.69	66.4	5.40	4.4
SR4	5/15/2017 3:01	26.75	65.8	5.35	5.6	SR4	5/15/2017 9:01	26.68	66.5	5.41	8.2	SR4	5/15/2017 15:01	26.66	66.1	5.37	6.9	SR4	5/15/2017 21:01	26.69	65.3	5.31	5.1
SR4	5/15/2017 3:06	26.78	65.9	5.36	6.7	SR4	5/15/2017 9:06	26.68	65.4	5.32	5.8	SR4	5/15/2017 15:06	26.68	66.3	5.31	4.6	SR4	5/15/2017 21:06	26.72	66.3	5.39	8.1
SR4	5/15/2017 3:11	26.82	65.9	5.36	8.4	SR4	5/15/2017 9:11	26.66	65.3	5.31	7.6	SR4	5/15/2017 15:11	26.67	65.9	5.36	4.2	SR4	5/15/2017 21:11	26.73	66.8	5.43	6.1
SR4	5/15/2017 3:16	26.84	65.7	5.34	7.0	SR4	5/15/2017 9:16	26.66	65.9	5.36	5.3	SR4	5/15/2017 15:16	26.66	66.3	5.39	7.4	SR4	5/15/2017 21:16	26.74	66.2	5.38	8.3
SR4	5/15/2017 3:21	26.83	66.1	5.37	4.3	SR4	5/15/2017 9:21	26.67	65.3	5.31	6.2	SR4	5/15/2017 15:21	26.65	66.4	5.32	7.9	SR4	5/15/2017 21:21	26.74	71.5	6.81	8.3
SR4	5/15/2017 3:26	26.80	65.3	5.31	8.6	SR4	5/15/2017 9:26	26.66	65.8	5.35	5.6	SR4	5/15/2017 15:26	26.64	65.9	5.36	8.3	SR4	5/15/2017 21:26	26.73	68.5	5.57	8.1
SR4	5/15/2017 3:31	26.72	65.6	5.33	4.8	SR4	5/15/2017 9:31	26.62	65.8	5.35	8.2	SR4	5/15/2017 15:31	26.67	66.4	5.40	8.5	SR4	5/15/2017 21:31	26.67	66.1	5.37	7.3
SR4	5/15/2017 3:36	26.66	65.4	5.32	8.5	SR4	5/15/2017 9:36	26.61	65.8	5.35	7.2	SR4	5/15/2017 15:36	26.65	66.4	5.40	8.4	SR4	5/15/2017 21:36	26.68	68.5	5.57	9.0
SR4	5/15/2017 3:41	26.67	65.3	5.31	6.5	SR4	5/15/2017 9:41	26.61	65.9	5.36	5.2	SR4	5/15/2017 15:41	26.62	65.9	5.36	6.7	SR4	5/15/2017 21:41	26.68	68.6	5.58	7.5
SR4	5/15/2017 3:46	26.66	65.3	5.31	7.6	SR4	5/15/2017 9:46	26.59	66.4	5.40	5.7	SR4	5/15/2017 15:46	26.62	66.1	5.37	6.4	SR4	5/15/2017 21:46	26.70	65.9	5.36	8.3
SR4	5/15/2017 3:51	26.67	66.4	5.40	4.7	SR4	5/15/2017 9:51	26.60	66.2	5.38	7.3	SR4	5/15/2017 15:51	26.62	66.3	5.39	7.6	SR4	5/15/2017 21:51	26.68	68.3	5.55	6.8
SR4	5/15/2017 3:56	26.72	66.2	5.38	5.0	SR4	5/15/2017 9:56	26.61	65.3	5.31	8.0												









24-hr Water Quality Monitoring

Station	Timestamp	NH <sub>3</sub> (mg/L)				Station	Timestamp	NH <sub>3</sub> (mg/L)			
SR4	5/15/2017 0:17	0.14				SR12	5/15/2017 0:17	0.19			
SR4	5/15/2017 0:37	0.14				SR12	5/15/2017 0:37	0.19			
SR4	5/15/2017 0:57	0.13				SR12	5/15/2017 0:57	0.18			
SR4	5/15/2017 1:17	0.11				SR12	5/15/2017 1:17	0.17			
SR4	5/15/2017 1:37	0.12				SR12	5/15/2017 1:37	0.19			
SR4	5/15/2017 1:57	0.13				SR12	5/15/2017 1:57	0.18			
SR4	5/15/2017 2:17	0.12				SR12	5/15/2017 2:17	0.17			
SR4	5/15/2017 2:37	0.11				SR12	5/15/2017 2:37	0.19			
SR4	5/15/2017 2:57	0.12				SR12	5/15/2017 2:57	0.18			
SR4	5/15/2017 3:17	0.12				SR12	5/15/2017 3:17	0.19			
SR4	5/15/2017 3:37	0.14				SR12	5/15/2017 3:37	0.19			
SR4	5/15/2017 3:57	0.11				SR12	5/15/2017 3:57	0.16			
SR4	5/15/2017 4:17	0.12				SR12	5/15/2017 4:17	0.17			
SR4	5/15/2017 4:37	0.13				SR12	5/15/2017 4:37	0.18			
SR4	5/15/2017 4:57	0.13				SR12	5/15/2017 4:57	0.16			
SR4	5/15/2017 5:17	0.11				SR12	5/15/2017 5:17	0.16			
SR4	5/15/2017 5:37	0.13				SR12	5/15/2017 5:37	0.17			
SR4	5/15/2017 5:57	0.12				SR12	5/15/2017 5:57	0.18			
SR4						SR12					
SR4	5/15/2017 6:37	0.11				SR12	5/15/2017 6:37	0.18			
SR4	5/15/2017 6:57	0.13				SR12	5/15/2017 6:57	0.17			
SR4	5/15/2017 7:17	0.11				SR12	5/15/2017 7:17	0.17			
SR4	5/15/2017 7:37	0.13				SR12	5/15/2017 7:37	0.16			
SR4	5/15/2017 7:57	0.13				SR12	5/15/2017 7:57	0.18			
SR4	5/15/2017 8:17	0.13				SR12	5/15/2017 8:17	0.17			
SR4	5/15/2017 8:37	0.11				SR12	5/15/2017 8:37	0.17			
SR4	5/15/2017 8:57	0.12				SR12	5/15/2017 8:57	0.18			
SR4	5/15/2017 9:17	0.13				SR12	5/15/2017 9:17	0.16			
SR4	5/15/2017 9:37	0.12				SR12					
SR4	5/15/2017 9:57	0.13				SR12					
SR4	5/15/2017 10:17	0.12				SR12					
SR4	5/15/2017 10:37	0.13				SR12					
SR4	5/15/2017 10:57	0.10				SR12					
SR4	5/15/2017 11:17	0.10				SR12	5/15/2017 11:17	0.16			
SR4	5/15/2017 11:37	0.12				SR12	5/15/2017 11:37	0.18			
SR4	5/15/2017 11:57	0.12				SR12	5/15/2017 11:57	0.15			
SR4						SR12	5/15/2017 12:17	0.19			
SR4						SR12	5/15/2017 12:37	0.19			
SR4						SR12	5/15/2017 12:57	0.15			
SR4						SR12	5/15/2017 13:17	0.16			
SR4						SR12	5/15/2017 13:37	0.15			
SR4						SR12	5/15/2017 13:57	0.15			
SR4	5/15/2017 14:17	0.12				SR12	5/15/2017 14:17	0.16			
SR4	5/15/2017 14:37	0.10				SR12	5/15/2017 14:37	0.16			
SR4	5/15/2017 14:57	0.11				SR12	5/15/2017 14:57	0.16			
SR4	5/15/2017 15:17	0.11				SR12	5/15/2017 15:17	0.19			
SR4	5/15/2017 15:37	0.10				SR12	5/15/2017 15:37	0.15			
SR4	5/15/2017 15:57	0.12				SR12	5/15/2017 15:57	0.15			
SR4	5/15/2017 16:17	0.12				SR12	5/15/2017 16:17	0.16			
SR4	5/15/2017 16:37	0.11				SR12	5/15/2017 16:37	0.16			
SR4	5/15/2017 16:57	0.10				SR12	5/15/2017 16:57	0.17			
SR4	5/15/2017 17:17	0.12				SR12	5/15/2017 17:17	0.16			
SR4	5/15/2017 17:37	0.12				SR12	5/15/2017 17:37	0.17			
SR4	5/15/2017 17:57	0.11				SR12	5/15/2017 17:57	0.19			
SR4	5/15/2017 18:17	0.12				SR12	5/15/2017 18:17	0.18			
SR4	5/15/2017 18:37	0.09				SR12	5/15/2017 18:37	0.19			
SR4	5/15/2017 18:57	0.11				SR12	5/15/2017 18:57	0.19			
SR4	5/15/2017 19:17	0.10				SR12	5/15/2017 19:17	0.18			
SR4	5/15/2017 19:37	0.09				SR12	5/15/2017 19:37	0.17			
SR4	5/15/2017 19:57	0.11				SR12	5/15/2017 19:57	0.16			
SR4	5/15/2017 20:17	0.09				SR12	5/15/2017 20:17	0.16			
SR4	5/15/2017 20:37	0.12				SR12	5/15/2017 20:37	0.16			
SR4	5/15/2017 20:57	0.10				SR12	5/15/2017 20:57	0.19			
SR4	5/15/2017 21:17	0.10				SR12	5/15/2017 21:17	0.18			
SR4	5/15/2017 21:37	0.10				SR12	5/15/2017 21:37	0.15			
SR4	5/15/2017 21:57	0.09				SR12	5/15/2017 21:57	0.16			
SR4	5/15/2017 22:17	0.08				SR12	5/15/2017 22:17	0.15			
SR4	5/15/2017 22:37	0.10				SR12	5/15/2017 22:37	0.18			
SR4	5/15/2017 22:57	0.08				SR12	5/15/2017 22:57	0.16			
SR4	5/15/2017 23:17	0.09				SR12	5/15/2017 23:17	0.19			
SR4	5/15/2017 23:37	0.10				SR12	5/15/2017 23:37	0.16			
SR4	5/15/2017 23:57	0.12				SR12	5/15/2017 23:57	0.16			

Remark: Fonts with underline: Action Level Exceedance

**Fonts in Bold with underline: Limit Level Exceedance**

Automatic Instrument calibration of NH3-N monitor was carried out during 5:57-6:37 at SR4 and SR12.

SR4 monitoring station was under maintenance during 12:16-13:41.

SR12 monitoring station was under maintenance during 9:31-10:51.

SR13 monitoring station was under maintenance during 15:35-16:00.











24-hr Water Quality Monitoring

Station	Timestamp	NH <sub>3</sub> (mg/L)				Station	Timestamp	NH <sub>3</sub> (mg/L)			
SR4	5/16/2017 0:17	0.08				SR12	5/16/2017 0:17	0.19			
SR4	5/16/2017 0:37	0.09				SR12	5/16/2017 0:37	0.19			
SR4	5/16/2017 0:57	0.08				SR12	5/16/2017 0:57	0.16			
SR4	5/16/2017 1:17	0.12				SR12	5/16/2017 1:17	0.18			
SR4	5/16/2017 1:37	0.11				SR12	5/16/2017 1:37	0.18			
SR4	5/16/2017 1:57	0.08				SR12	5/16/2017 1:57	0.19			
SR4	5/16/2017 2:17	0.11				SR12	5/16/2017 2:17	0.19			
SR4	5/16/2017 2:37	0.09				SR12	5/16/2017 2:37	0.19			
SR4	5/16/2017 2:57	0.12				SR12	5/16/2017 2:57	0.16			
SR4	5/16/2017 3:17	0.09				SR12	5/16/2017 3:17	0.16			
SR4	5/16/2017 3:37	0.10				SR12	5/16/2017 3:37	0.17			
SR4	5/16/2017 3:57	0.10				SR12	5/16/2017 3:57	0.18			
SR4	5/16/2017 4:17	0.11				SR12	5/16/2017 4:17	0.17			
SR4	5/16/2017 4:37	0.11				SR12	5/16/2017 4:37	0.18			
SR4	5/16/2017 4:57	0.09				SR12	5/16/2017 4:57	0.17			
SR4	5/16/2017 5:17	0.12				SR12	5/16/2017 5:17	0.16			
SR4	5/16/2017 5:37	0.12				SR12	5/16/2017 5:37	0.19			
SR4	5/16/2017 5:57	0.09				SR12	5/16/2017 5:57	0.16			
SR4						SR12					
SR4	5/16/2017 6:37	0.10				SR12	5/16/2017 6:37	0.19			
SR4	5/16/2017 6:57	0.08				SR12	5/16/2017 6:57	0.16			
SR4	5/16/2017 7:17	0.09				SR12	5/16/2017 7:17	0.17			
SR4	5/16/2017 7:37	0.08				SR12	5/16/2017 7:37	0.19			
SR4	5/16/2017 7:57	0.10				SR12	5/16/2017 7:57	0.19			
SR4	5/16/2017 8:17	0.08				SR12	5/16/2017 8:17	0.18			
SR4	5/16/2017 8:37	0.12				SR12	5/16/2017 8:37	0.18			
SR4	5/16/2017 8:57	0.12				SR12	5/16/2017 8:57	0.16			
SR4	5/16/2017 9:17	0.09				SR12	5/16/2017 9:17	0.18			
SR4	5/16/2017 9:37	0.10				SR12	5/16/2017 9:37	0.17			
SR4	5/16/2017 9:57	0.09				SR12	5/16/2017 9:57	0.18			
SR4	5/16/2017 10:17	0.12				SR12	5/16/2017 10:17	0.18			
SR4	5/16/2017 10:37	0.12				SR12	5/16/2017 10:37	0.16			
SR4	5/16/2017 10:57	0.09				SR12	5/16/2017 10:57	0.16			
SR4	5/16/2017 11:17	0.12				SR12	5/16/2017 11:17	0.16			
SR4	5/16/2017 11:37	0.10				SR12	5/16/2017 11:37	0.17			
SR4	5/16/2017 11:57	0.11				SR12	5/16/2017 11:57	0.18			
SR4	5/16/2017 12:17	0.10				SR12	5/16/2017 12:17	0.19			
SR4	5/16/2017 12:37	0.10				SR12	5/16/2017 12:37	0.16			
SR4	5/16/2017 12:57	0.11				SR12	5/16/2017 12:57	0.18			
SR4	5/16/2017 13:17	0.10				SR12	5/16/2017 13:17	0.19			
SR4	5/16/2017 13:37	0.12				SR12	5/16/2017 13:37	0.16			
SR4	5/16/2017 13:57	0.12				SR12	5/16/2017 13:57	0.17			
SR4	5/16/2017 14:17	0.11				SR12	5/16/2017 14:17	0.16			
SR4	5/16/2017 14:37	0.10				SR12	5/16/2017 14:37	0.16			
SR4	5/16/2017 14:57	0.11				SR12	5/16/2017 14:57	0.19			
SR4	5/16/2017 15:17	0.11				SR12	5/16/2017 15:17	0.17			
SR4	5/16/2017 15:37	0.09				SR12	5/16/2017 15:37	0.17			
SR4	5/16/2017 15:57	0.10				SR12	5/16/2017 15:57	0.14			
SR4	5/16/2017 16:17	0.11				SR12	5/16/2017 16:17	0.17			
SR4	5/16/2017 16:37	0.09				SR12	5/16/2017 16:37	0.14			
SR4	5/16/2017 16:57	0.11				SR12	5/16/2017 16:57	0.16			
SR4	5/16/2017 17:17	0.11				SR12	5/16/2017 17:17	0.15			
SR4	5/16/2017 17:37	0.10				SR12	5/16/2017 17:37	0.15			
SR4	5/16/2017 17:57	0.11				SR12	5/16/2017 17:57	0.15			
SR4	5/16/2017 18:17	0.10				SR12	5/16/2017 18:17	0.14			
SR4	5/16/2017 18:37	0.11				SR12	5/16/2017 18:37	0.16			
SR4	5/16/2017 18:57	0.10				SR12	5/16/2017 18:57	0.14			
SR4	5/16/2017 19:17	0.07				SR12	5/16/2017 19:17	0.15			
SR4	5/16/2017 19:37	0.10				SR12	5/16/2017 19:37	0.14			
SR4	5/16/2017 19:57	0.09				SR12	5/16/2017 19:57	0.16			
SR4	5/16/2017 20:17	0.10				SR12	5/16/2017 20:17	0.16			
SR4	5/16/2017 20:37	0.11				SR12	5/16/2017 20:37	0.14			
SR4	5/16/2017 20:57	0.11				SR12	5/16/2017 20:57	0.16			
SR4	5/16/2017 21:17	0.07				SR12	5/16/2017 21:17	0.15			
SR4	5/16/2017 21:37	0.09				SR12	5/16/2017 21:37	0.15			
SR4	5/16/2017 21:57	0.11				SR12	5/16/2017 21:57	0.15			
SR4	5/16/2017 22:17	0.07				SR12	5/16/2017 22:17	0.15			
SR4	5/16/2017 22:37	0.11				SR12	5/16/2017 22:37	0.14			
SR4	5/16/2017 22:57	0.08				SR12	5/16/2017 22:57	0.12			
SR4	5/16/2017 23:17	0.08				SR12	5/16/2017 23:17	0.14			
SR4	5/16/2017 23:37	0.09				SR12	5/16/2017 23:37	0.15			
SR4	5/16/2017 23:57	0.07				SR12	5/16/2017 23:57	0.15			

Remark: Fonts with underline: Action Level Exceedance

**Fonts in Bold with underline: Limit Level Exceedance**

Automatic Instrument calibration of NH3-N monitor was carried out during 5:57-6:37 at SR4 and SR12. SR5 monitoring station was under maintenance during 11:15-11:35.









24-hr Water Quality Monitoring

Station	Timestamp	NH <sub>3</sub> (mg/L)				Station	Timestamp	NH <sub>3</sub> (mg/L)			
SR4	5/17/2017 0:17	0.11				SR12	5/17/2017 0:17	0.11			
SR4	5/17/2017 0:37	0.07				SR12	5/17/2017 0:37	0.14			
SR4	5/17/2017 0:57	0.10				SR12	5/17/2017 0:57	0.12			
SR4	5/17/2017 1:17	0.09				SR12	5/17/2017 1:17	0.12			
SR4	5/17/2017 1:37	0.07				SR12	5/17/2017 1:37	0.12			
SR4	5/17/2017 1:57	0.09				SR12	5/17/2017 1:57	0.14			
SR4	5/17/2017 2:17	0.11				SR12	5/17/2017 2:17	0.13			
SR4	5/17/2017 2:37	0.08				SR12	5/17/2017 2:37	0.13			
SR4	5/17/2017 2:57	0.10				SR12	5/17/2017 2:57	0.15			
SR4	5/17/2017 3:17	0.07				SR12	5/17/2017 3:17	0.13			
SR4	5/17/2017 3:37	0.11				SR12	5/17/2017 3:37	0.11			
SR4	5/17/2017 3:57	0.07				SR12	5/17/2017 3:57	0.14			
SR4	5/17/2017 4:17	0.11				SR12	5/17/2017 4:17	0.14			
SR4	5/17/2017 4:37	0.10				SR12	5/17/2017 4:37	0.14			
SR4	5/17/2017 4:57	0.10				SR12	5/17/2017 4:57	0.15			
SR4	5/17/2017 5:17	0.11				SR12	5/17/2017 5:17	0.14			
SR4	5/17/2017 5:37	0.10				SR12	5/17/2017 5:37	0.15			
SR4	5/17/2017 5:57	0.11				SR12	5/17/2017 5:57	0.14			
SR4						SR12					
SR4	5/17/2017 6:37	0.10				SR12	5/17/2017 6:37	0.13			
SR4	5/17/2017 6:57	0.11				SR12	5/17/2017 6:57	0.14			
SR4	5/17/2017 7:17	0.11				SR12	5/17/2017 7:17	0.14			
SR4	5/17/2017 7:37	0.10				SR12	5/17/2017 7:37	0.12			
SR4	5/17/2017 7:57	0.10				SR12	5/17/2017 7:57	0.11			
SR4	5/17/2017 8:17	0.07				SR12	5/17/2017 8:17	0.14			
SR4	5/17/2017 8:37	0.09				SR12	5/17/2017 8:37	0.12			
SR4	5/17/2017 8:57	0.06				SR12	5/17/2017 8:57	0.15			
SR4	5/17/2017 9:17	0.09				SR12	5/17/2017 9:17	0.15			
SR4	5/17/2017 9:37	0.06				SR12	5/17/2017 9:37	0.11			
SR4	5/17/2017 9:57	0.08				SR12	5/17/2017 9:57	0.14			
SR4	5/17/2017 10:17	0.07				SR12	5/17/2017 10:17	0.14			
SR4	5/17/2017 10:37	0.06				SR12	5/17/2017 10:37	0.15			
SR4	5/17/2017 10:57	0.06				SR12	5/17/2017 10:57	0.13			
SR4	5/17/2017 11:17	0.10				SR12	5/17/2017 11:17	0.12			
SR4	5/17/2017 11:37	0.06				SR12	5/17/2017 11:37	0.14			
SR4	5/17/2017 11:57	0.06				SR12	5/17/2017 11:57	0.13			
SR4	5/17/2017 12:17	0.09				SR12	5/17/2017 12:17	0.15			
SR4	5/17/2017 12:37	0.08				SR12	5/17/2017 12:37	0.14			
SR4	5/17/2017 12:57	0.06				SR12	5/17/2017 12:57	0.12			
SR4	5/17/2017 13:17	0.09				SR12	5/17/2017 13:17	0.12			
SR4	5/17/2017 13:37	0.09				SR12	5/17/2017 13:37	0.10			
SR4	5/17/2017 13:57	0.08				SR12	5/17/2017 13:57	0.09			
SR4	5/17/2017 14:17	0.10				SR12	5/17/2017 14:17	0.09			
SR4	5/17/2017 14:37	0.06				SR12	5/17/2017 14:37	0.12			
SR4	5/17/2017 14:57	0.06				SR12	5/17/2017 14:57	0.13			
SR4	5/17/2017 15:17	0.06				SR12	5/17/2017 15:17	0.13			
SR4	5/17/2017 15:37	0.10				SR12	5/17/2017 15:37	0.13			
SR4	5/17/2017 15:57	0.07				SR12	5/17/2017 15:57	0.09			
SR4	5/17/2017 16:17	0.07				SR12	5/17/2017 16:17	0.09			
SR4	5/17/2017 16:37	0.08				SR12	5/17/2017 16:37	0.12			
SR4	5/17/2017 16:57	0.07				SR12	5/17/2017 16:57	0.10			
SR4	5/17/2017 17:17	0.07				SR12	5/17/2017 17:17	0.10			
SR4	5/17/2017 17:37	0.10				SR12	5/17/2017 17:37	0.12			
SR4	5/17/2017 17:57	0.07				SR12	5/17/2017 17:57	0.12			
SR4	5/17/2017 18:17	0.08				SR12	5/17/2017 18:17	0.13			
SR4	5/17/2017 18:37	0.09				SR12	5/17/2017 18:37	0.10			
SR4	5/17/2017 18:57	0.10				SR12	5/17/2017 18:57	0.10			
SR4	5/17/2017 19:17	0.09				SR12	5/17/2017 19:17	0.13			
SR4	5/17/2017 19:37	0.08				SR12	5/17/2017 19:37	0.09			
SR4	5/17/2017 19:57	0.09				SR12	5/17/2017 19:57	0.11			
SR4	5/17/2017 20:17	0.06				SR12	5/17/2017 20:17	0.09			
SR4	5/17/2017 20:37	0.09				SR12	5/17/2017 20:37	0.12			
SR4	5/17/2017 20:57	0.09				SR12	5/17/2017 20:57	0.13			
SR4	5/17/2017 21:17	0.07				SR12	5/17/2017 21:17	0.13			
SR4	5/17/2017 21:37	0.10				SR12	5/17/2017 21:37	0.12			
SR4	5/17/2017 21:57	0.06				SR12	5/17/2017 21:57	0.12			
SR4	5/17/2017 22:17	0.08				SR12	5/17/2017 22:17	0.09			
SR4	5/17/2017 22:37	0.08				SR12	5/17/2017 22:37	0.10			
SR4	5/17/2017 22:57	0.08				SR12	5/17/2017 22:57	0.12			
SR4	5/17/2017 23:17	0.06				SR12	5/17/2017 23:17	0.09			
SR4	5/17/2017 23:37	0.10				SR12	5/17/2017 23:37	0.10			
SR4	5/17/2017 23:57	0.08				SR12	5/17/2017 23:57	0.10			

Remark: Fonts with underline: Action Level Exceedance

**Fonts in Bold with underline: Limit Level Exceedance**

Automatic Instrument calibration of NH3-N monitor was carried out during 5:57-6:37 at SR4 and SR12. SR13 monitoring station was under maintenance during 14:10:14:30.











## 24-hr Water Quality Monitoring

Station	Timestamp	NH <sub>3</sub> (mg/L)				Station	Timestamp	NH <sub>3</sub> (mg/L)			
SR4	5/18/2017 0:17	0.10				SR12	5/18/2017 0:17	0.11			
SR4	5/18/2017 0:37	0.06				SR12	5/18/2017 0:37	0.10			
SR4	5/18/2017 0:57	0.10				SR12	5/18/2017 0:57	0.12			
SR4	5/18/2017 1:17	0.10				SR12	5/18/2017 1:17	0.10			
SR4	5/18/2017 1:37	0.08				SR12	5/18/2017 1:37	0.10			
SR4	5/18/2017 1:57	0.10				SR12	5/18/2017 1:57	0.10			
SR4	5/18/2017 2:17	0.07				SR12	5/18/2017 2:17	0.10			
SR4	5/18/2017 2:37	0.10				SR12	5/18/2017 2:37	0.12			
SR4	5/18/2017 2:57	0.10				SR12	5/18/2017 2:57	0.13			
SR4	5/18/2017 3:17	0.10				SR12	5/18/2017 3:17	0.09			
SR4	5/18/2017 3:37	0.10				SR12	5/18/2017 3:37	0.09			
SR4	5/18/2017 3:57	0.10				SR12	5/18/2017 3:57	0.09			
SR4	5/18/2017 4:17	0.07				SR12	5/18/2017 4:17	0.09			
SR4	5/18/2017 4:37	0.10				SR12	5/18/2017 4:37	0.08			
SR4	5/18/2017 4:57	0.08				SR12	5/18/2017 4:57	0.09			
SR4	5/18/2017 5:17	0.07				SR12	5/18/2017 5:17	0.07			
SR4	5/18/2017 5:37	0.09				SR12	5/18/2017 5:37	0.09			
SR4	5/18/2017 5:57	0.08				SR12	5/18/2017 5:57	0.08			
SR4						SR12					
SR4	5/18/2017 6:37	0.08				SR12	5/18/2017 6:37	0.07			
SR4	5/18/2017 6:57	0.10				SR12	5/18/2017 6:57	0.07			
SR4	5/18/2017 7:17	0.06				SR12	5/18/2017 7:17	0.08			
SR4	5/18/2017 7:37	0.10				SR12	5/18/2017 7:37	0.08			
SR4	5/18/2017 7:57	0.06				SR12	5/18/2017 7:57	0.08			
SR4	5/18/2017 8:17	0.09				SR12	5/18/2017 8:17	0.08			
SR4	5/18/2017 8:37	0.10				SR12	5/18/2017 8:37	0.09			
SR4	5/18/2017 8:57	0.07				SR12	5/18/2017 8:57	0.08			
SR4	5/18/2017 9:17	0.10				SR12	5/18/2017 9:17	0.07			
SR4	5/18/2017 9:37	0.08				SR12	5/18/2017 9:37	0.09			
SR4	5/18/2017 9:57	0.06				SR12	5/18/2017 9:57	0.09			
SR4	5/18/2017 10:17	0.06				SR12	5/18/2017 10:17	0.07			
SR4	5/18/2017 10:37	0.07				SR12	5/18/2017 10:37	0.07			
SR4	5/18/2017 10:57	0.07				SR12	5/18/2017 10:57	0.08			
SR4	5/18/2017 11:17	0.09				SR12	5/18/2017 11:17	0.07			
SR4	5/18/2017 11:37	0.06				SR12	5/18/2017 11:37	0.07			
SR4	5/18/2017 11:57	0.06				SR12	5/18/2017 11:57	0.09			
SR4	5/18/2017 12:17	0.08				SR12	5/18/2017 12:17	0.08			
SR4	5/18/2017 12:37	0.08				SR12	5/18/2017 12:37	0.09			
SR4	5/18/2017 12:57	0.06				SR12	5/18/2017 12:57	0.07			
SR4	5/18/2017 13:17	0.07				SR12	5/18/2017 13:17	0.09			
SR4	5/18/2017 13:37	0.08				SR12	5/18/2017 13:37	0.08			
SR4	5/18/2017 13:57	0.07				SR12	5/18/2017 13:57	0.08			
SR4	5/18/2017 14:17	0.10				SR12	5/18/2017 14:17	0.09			
SR4	5/18/2017 14:37	0.10				SR12	5/18/2017 14:37	0.07			
SR4	5/18/2017 14:57	0.06				SR12	5/18/2017 14:57	0.09			
SR4	5/18/2017 15:17	0.07				SR12	5/18/2017 15:17	0.08			
SR4	5/18/2017 15:37	0.07				SR12	5/18/2017 15:37	0.08			
SR4	5/18/2017 15:57	0.10				SR12	5/18/2017 15:57	0.09			
SR4	5/18/2017 16:17	0.10				SR12	5/18/2017 16:17	0.08			
SR4	5/18/2017 16:37	0.12				SR12	5/18/2017 16:37	0.08			
SR4	5/18/2017 16:57	0.10				SR12	5/18/2017 16:57	0.08			
SR4	5/18/2017 17:17	0.08				SR12	5/18/2017 17:17	0.08			
SR4	5/18/2017 17:37	0.08				SR12	5/18/2017 17:37	0.08			
SR4	5/18/2017 17:57	0.08				SR12	5/18/2017 17:57	0.08			
SR4	5/18/2017 18:17	0.09				SR12	5/18/2017 18:17	0.08			
SR4	5/18/2017 18:37	0.08				SR12	5/18/2017 18:37	0.07			
SR4	5/18/2017 18:57	0.10				SR12	5/18/2017 18:57	0.09			
SR4	5/18/2017 19:17	0.11				SR12	5/18/2017 19:17	0.09			
SR4	5/18/2017 19:37	0.10				SR12	5/18/2017 19:37	0.07			
SR4	5/18/2017 19:57	0.10				SR12	5/18/2017 19:57	0.09			
SR4	5/18/2017 20:17	0.12				SR12	5/18/2017 20:17	0.07			
SR4	5/18/2017 20:37	0.09				SR12	5/18/2017 20:37	0.08			
SR4	5/18/2017 20:57	0.09				SR12	5/18/2017 20:57	0.07			
SR4	5/18/2017 21:17	0.12				SR12	5/18/2017 21:17	0.08			
SR4	5/18/2017 21:37	0.11				SR12	5/18/2017 21:37	0.06			
SR4	5/18/2017 21:57	0.08				SR12	5/18/2017 21:57	0.09			
SR4	5/18/2017 22:17	0.12				SR12	5/18/2017 22:17	0.09			
SR4	5/18/2017 22:37	0.11				SR12	5/18/2017 22:37	0.08			
SR4	5/18/2017 22:57	0.11				SR12	5/18/2017 22:57	0.07			
SR4	5/18/2017 23:17	0.08				SR12	5/18/2017 23:17	0.08			
SR4	5/18/2017 23:37	0.08				SR12	5/18/2017 23:37	0.07			
SR4	5/18/2017 23:57	0.12				SR12	5/18/2017 23:57	0.06			

Remark: Fonts with underline: Action Level Exceedance

**Fonts in Bold with underline: Limit Level Exceedance**

Automatic Instrument calibration of NH<sub>3</sub>-N monitor was carried out during 5:57-6:37 at SR4 and SR12.  
SR5 monitoring station was under maintenance during 12:40:13:00.









24-hr Water Quality Monitoring

Station	Timestamp	NH <sub>3</sub> (mg/L)			Station	Timestamp	NH <sub>3</sub> (mg/L)			
SR4	5/19/2017 0:17	0.09			SR12	5/19/2017 0:17	0.09			
SR4	5/19/2017 0:37	0.11			SR12	5/19/2017 0:37	0.08			
SR4	5/19/2017 0:57	0.11			SR12	5/19/2017 0:57	0.08			
SR4	5/19/2017 1:17	0.11			SR12	5/19/2017 1:17	0.07			
SR4	5/19/2017 1:37	0.10			SR12	5/19/2017 1:37	0.07			
SR4	5/19/2017 1:57	0.09			SR12	5/19/2017 1:57	0.08			
SR4	5/19/2017 2:17	0.09			SR12	5/19/2017 2:17	0.07			
SR4	5/19/2017 2:37	0.10			SR12	5/19/2017 2:37	0.09			
SR4	5/19/2017 2:57	0.12			SR12	5/19/2017 2:57	0.06			
SR4	5/19/2017 3:17	0.10			SR12	5/19/2017 3:17	0.09			
SR4	5/19/2017 3:37	0.12			SR12	5/19/2017 3:37	0.08			
SR4	5/19/2017 3:57	0.10			SR12	5/19/2017 3:57	0.06			
SR4	5/19/2017 4:17	0.09			SR12	5/19/2017 4:17	0.07			
SR4	5/19/2017 4:37	0.08			SR12	5/19/2017 4:37	0.06			
SR4	5/19/2017 4:57	0.12			SR12	5/19/2017 4:57	0.07			
SR4	5/19/2017 5:17	0.09			SR12	5/19/2017 5:17	0.09			
SR4	5/19/2017 5:37	0.10			SR12	5/19/2017 5:37	0.07			
SR4	5/19/2017 5:57	0.12			SR12	5/19/2017 5:57	0.08			
SR4					SR12					
SR4	5/19/2017 6:37	0.08			SR12	5/19/2017 6:37	0.07			
SR4	5/19/2017 6:57	0.11			SR12	5/19/2017 6:57	0.06			
SR4	5/19/2017 7:17	0.12			SR12	5/19/2017 7:17	0.07			
SR4	5/19/2017 7:37	0.09			SR12	5/19/2017 7:37	0.06			
SR4	5/19/2017 7:57	0.10			SR12	5/19/2017 7:57	0.09			
SR4	5/19/2017 8:17	0.11			SR12	5/19/2017 8:17	0.09			
SR4	5/19/2017 8:37	0.12			SR12	5/19/2017 8:37	0.09			
SR4	5/19/2017 8:57	0.12			SR12	5/19/2017 8:57	0.10			
SR4	5/19/2017 9:17	0.13			SR12	5/19/2017 9:17	0.13			
SR4	5/19/2017 9:37	0.13			SR12					
SR4	5/19/2017 9:57	0.14			SR12					
SR4	5/19/2017 10:17	0.15			SR12					
SR4	5/19/2017 10:37	0.15			SR12					
SR4	5/19/2017 10:57	0.11			SR12					
SR4	5/19/2017 11:17	0.14			SR12	5/19/2017 11:17	0.12			
SR4	5/19/2017 11:37	0.15			SR12	5/19/2017 11:37	0.10			
SR4	5/19/2017 11:57	0.11			SR12	5/19/2017 11:57	0.13			
SR4					SR12	5/19/2017 12:17	0.13			
SR4					SR12	5/19/2017 12:37	0.14			
SR4					SR12	5/19/2017 12:57	0.14			
SR4					SR12	5/19/2017 13:17	0.14			
SR4					SR12	5/19/2017 13:37	0.13			
SR4	5/19/2017 13:57	0.13			SR12	5/19/2017 13:57	0.14			
SR4	5/19/2017 14:17	0.14			SR12	5/19/2017 14:17	0.14			
SR4	5/19/2017 14:37	0.11			SR12	5/19/2017 14:37	0.14			
SR4	5/19/2017 14:57	0.15			SR12	5/19/2017 14:57	0.13			
SR4	5/19/2017 15:17	0.11			SR12	5/19/2017 15:17	0.13			
SR4	5/19/2017 15:37	0.14			SR12	5/19/2017 15:37	0.12			
SR4	5/19/2017 15:57	0.15			SR12	5/19/2017 15:57	0.12			
SR4	5/19/2017 16:17	0.14			SR12	5/19/2017 16:17	0.13			
SR4	5/19/2017 16:37	0.11			SR12	5/19/2017 16:37	0.12			
SR4	5/19/2017 16:57	0.14			SR12	5/19/2017 16:57	0.12			
SR4	5/19/2017 17:17	0.11			SR12	5/19/2017 17:17	0.15			
SR4	5/19/2017 17:37	0.13			SR12	5/19/2017 17:37	0.12			
SR4	5/19/2017 17:57	0.11			SR12	5/19/2017 17:57	0.15			
SR4	5/19/2017 18:17	0.12			SR12	5/19/2017 18:17	0.15			
SR4	5/19/2017 18:37	0.15			SR12	5/19/2017 18:37	0.15			
SR4	5/19/2017 18:57	0.12			SR12	5/19/2017 18:57	0.16			
SR4	5/19/2017 19:17	0.12			SR12	5/19/2017 19:17	0.16			
SR4	5/19/2017 19:37	0.13			SR12	5/19/2017 19:37	0.17			
SR4	5/19/2017 19:57	0.15			SR12	5/19/2017 19:57	0.16			
SR4	5/19/2017 20:17	0.11			SR12	5/19/2017 20:17	0.15			
SR4	5/19/2017 20:37	0.12			SR12	5/19/2017 20:37	0.18			
SR4	5/19/2017 20:57	0.13			SR12	5/19/2017 20:57	0.17			
SR4	5/19/2017 21:17	0.13			SR12	5/19/2017 21:17	0.17			
SR4	5/19/2017 21:37	0.12			SR12	5/19/2017 21:37	0.15			
SR4	5/19/2017 21:57	0.11			SR12	5/19/2017 21:57	0.14			
SR4	5/19/2017 22:17	0.15			SR12	5/19/2017 22:17	0.18			
SR4	5/19/2017 22:37	0.14			SR12	5/19/2017 22:37	0.17			
SR4	5/19/2017 22:57	0.13			SR12	5/19/2017 22:57	0.16			
SR4	5/19/2017 23:17	0.15			SR12	5/19/2017 23:17	0.15			
SR4	5/19/2017 23:37	0.13			SR12	5/19/2017 23:37	0.17			
SR4	5/19/2017 23:57	0.11			SR12	5/19/2017 23:57	0.14			

Remark: Fonts with underline: Action Level Exceedance

**Fonts in Bold with underline: Limit Level Exceedance**

Automatic Instrument calibration of NH<sub>3</sub>-N monitor was carried out during 5:57-6:37 at SR4 and SR12.  
 SR4 monitoring station was under maintenance during 12:06-13:26.  
 SR12 monitoring station was under maintenance during 9:26-10:41.



## 24-hr Water Quality Monitoring

Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)
SR4	5/20/2017 0:01	28.52	75.3	6.07	5.0	SR4	5/20/2017 6:01	28.34	75.4	6.08	5.4	SR4	5/20/2017 12:01	28.33	74.2	5.98	5.1	SR4	5/20/2017 18:01	28.36	77.1	6.17	7.6
SR4	5/20/2017 0:06	28.47	74.4	6.00	4.1	SR4	5/20/2017 6:06	28.25	73.7	5.94	3.8	SR4	5/20/2017 12:06	28.41	73.7	5.94	5.0	SR4	5/20/2017 18:06	28.27	79.5	6.36	4.9
SR4	5/20/2017 0:11	28.48	75.3	6.07	4.9	SR4	5/20/2017 6:11	28.38	74.0	5.97	3.6	SR4	5/20/2017 12:11	28.31	75.4	6.08	2.7	SR4	5/20/2017 18:11	28.43	76.6	6.13	7.9
SR4	5/20/2017 0:16	28.24	74.9	6.04	4.0	SR4	5/20/2017 6:16	28.26	74.9	6.04	4.8	SR4	5/20/2017 12:16	28.43	74.2	5.98	4.0	SR4	5/20/2017 18:16	28.37	79.8	6.38	7.8
SR4	5/20/2017 0:21	28.46	74.6	6.02	3.3	SR4	5/20/2017 6:21	28.50	75.1	6.06	7.2	SR4	5/20/2017 12:21	28.46	74.5	6.01	5.5	SR4	5/20/2017 18:21	28.42	75.9	6.07	6.7
SR4	5/20/2017 0:26	28.30	74.3	5.99	6.5	SR4	5/20/2017 6:26	28.47	73.8	5.95	3.1	SR4	5/20/2017 12:26	28.37	74.4	6.00	8.0	SR4	5/20/2017 18:26	28.42	78.4	6.27	8.0
SR4	5/20/2017 0:31	28.24	74.9	6.04	6.0	SR4	5/20/2017 6:31	28.53	75.5	6.09	4.5	SR4	5/20/2017 12:31	28.50	74.6	6.02	2.9	SR4	5/20/2017 18:31	28.27	78.3	6.26	6.8
SR4	5/20/2017 0:36	28.36	74.8	6.03	3.9	SR4	5/20/2017 6:36	28.36	74.9	6.04	3.7	SR4	5/20/2017 12:36	28.53	74.0	5.97	7.9	SR4	5/20/2017 18:36	28.29	77.6	6.21	4.5
SR4	5/20/2017 0:41	28.51	74.9	6.04	3.0	SR4	5/20/2017 6:41	28.43	73.7	5.94	5.4	SR4	5/20/2017 12:41	28.35	73.8	5.95	3.0	SR4	5/20/2017 18:41	28.53	76.0	6.08	4.0
SR4	5/20/2017 0:46	28.36	74.6	6.02	5.2	SR4	5/20/2017 6:46	28.33	74.8	6.03	5.2	SR4	5/20/2017 12:46	28.53	74.8	6.03	7.7	SR4	5/20/2017 18:46	28.34	79.0	6.32	4.3
SR4	5/20/2017 0:51	28.30	74.2	5.98	6.5	SR4	5/20/2017 6:51	28.36	75.4	6.08	4.6	SR4	5/20/2017 12:51	28.45	74.2	5.98	2.9	SR4	5/20/2017 18:51	28.34	79.9	6.39	6.2
SR4	5/20/2017 0:56	28.54	75.0	6.05	7.3	SR4	5/20/2017 6:56	28.27	74.5	6.01	3.1	SR4	5/20/2017 12:56	28.24	75.4	6.08	8.0	SR4	5/20/2017 18:56	28.31	79.3	6.34	7.7
SR4	5/20/2017 1:01	28.29	75.1	6.06	5.7	SR4	5/20/2017 7:01	28.43	73.7	5.94	5.1	SR4	5/20/2017 13:01	28.29	74.6	6.02	4.9	SR4	5/20/2017 19:01	28.36	77.3	6.18	5.7
SR4	5/20/2017 1:06	28.46	75.1	6.06	3.6	SR4	5/20/2017 7:06	28.53	75.4	6.08	6.6	SR4	5/20/2017 13:06	28.44	74.9	6.04	6.1	SR4	5/20/2017 19:06	28.26	79.0	6.32	8.4
SR4	5/20/2017 1:11	28.30	74.8	6.03	3.7	SR4	5/20/2017 7:11	28.38	74.0	5.97	3.1	SR4	5/20/2017 13:11	28.36	74.2	5.98	7.0	SR4	5/20/2017 19:11	28.30	75.6	6.05	8.4
SR4	5/20/2017 1:16	28.29	75.3	6.07	3.3	SR4	5/20/2017 7:16	28.44	74.0	5.97	7.3	SR4	5/20/2017 13:16	28.46	74.6	6.02	4.1	SR4	5/20/2017 19:16	28.36	75.6	6.05	6.3
SR4	5/20/2017 1:21	28.29	75.5	6.09	4.2	SR4	5/20/2017 7:21	28.50	74.0	5.97	8.1	SR4	5/20/2017 13:21	28.29	74.3	5.99	5.4	SR4	5/20/2017 19:21	28.45	77.8	6.22	8.4
SR4	5/20/2017 1:26	28.38	74.5	6.01	5.0	SR4	5/20/2017 7:26	28.27	74.5	6.01	4.1	SR4	5/20/2017 13:26	28.50	74.9	6.04	7.1	SR4	5/20/2017 19:26	28.38	77.8	6.22	8.4
SR4	5/20/2017 1:31	28.26	75.3	6.07	5.6	SR4	5/20/2017 7:31	28.38	74.8	6.03	3.8	SR4	5/20/2017 13:31	28.39	74.5	6.01	5.6	SR4	5/20/2017 19:31	28.52	76.4	6.11	6.3
SR4	5/20/2017 1:36	28.37	74.2	5.98	4.3	SR4	5/20/2017 7:36	28.35	74.6	6.02	3.1	SR4	5/20/2017 13:36	28.44	73.7	5.94	3.9	SR4	5/20/2017 19:36	28.30	80.0	6.40	4.8
SR4	5/20/2017 1:41	28.46	73.8	5.95	3.3	SR4	5/20/2017 7:41	28.31	74.9	6.04	6.5	SR4	5/20/2017 13:41	28.46	74.4	6.00	6.6	SR4	5/20/2017 19:41	28.43	80.1	6.41	6.1
SR4	5/20/2017 1:46	28.26	74.5	6.01	7.4	SR4	5/20/2017 7:46	28.38	75.4	6.08	3.3	SR4	5/20/2017 13:46	28.32	74.5	6.01	3.7	SR4	5/20/2017 19:46	28.34	77.5	6.20	8.1
SR4	5/20/2017 1:51	28.48	75.3	6.07	3.0	SR4	5/20/2017 7:51	28.54	75.0	6.05	8.1	SR4	5/20/2017 13:51	28.35	75.4	6.08	6.7	SR4	5/20/2017 19:51	28.43	75.6	6.05	7.5
SR4	5/20/2017 1:56	28.27	73.9	5.96	3.4	SR4	5/20/2017 7:56	28.34	74.8	6.03	8.0	SR4	5/20/2017 13:56	28.30	75.5	6.09	7.2	SR4	5/20/2017 19:56	28.24	78.9	6.31	7.4
SR4	5/20/2017 2:01	28.43	75.0	6.05	5.9	SR4	5/20/2017 8:01	28.32	74.8	6.03	5.2	SR4	5/20/2017 14:01	28.37	75.5	6.09	4.3	SR4	5/20/2017 20:01	28.29	78.5	6.28	4.2
SR4	5/20/2017 2:06	28.31	74.8	6.03	5.5	SR4	5/20/2017 8:06	28.37	74.3	5.99	7.7	SR4	5/20/2017 14:06	28.30	75.1	6.06	6.2	SR4	5/20/2017 20:06	28.36	78.6	6.29	7.2
SR4	5/20/2017 2:11	28.27	74.5	6.01	5.7	SR4	5/20/2017 8:11	28.24	74.8	6.03	3.4	SR4	5/20/2017 14:11	28.36	74.3	5.99	4.3	SR4	5/20/2017 20:11	28.26	78.5	6.28	7.6
SR4	5/20/2017 2:16	28.48	75.1	6.06	3.8	SR4	5/20/2017 8:16	28.42	74.6	6.02	2.5	SR4	5/20/2017 14:16	28.33	75.5	6.09	4.9	SR4	5/20/2017 20:16	28.25	80.8	6.46	5.4
SR4	5/20/2017 2:21	28.24	74.0	5.97	5.4	SR4	5/20/2017 8:21	28.53	74.6	6.02	3.4	SR4	5/20/2017 14:21	28.33	75.0	6.05	5.2	SR4	5/20/2017 20:21	28.41	75.9	6.07	7.7
SR4	5/20/2017 2:26	28.34	75.3	6.07	2.6	SR4	5/20/2017 8:26	28.40	75.1	6.06	7.3	SR4	5/20/2017 14:26	28.52	75.1	6.06	4.1	SR4	5/20/2017 20:26	28.50	77.1	6.17	6.9
SR4	5/20/2017 2:31	28.53	75.1	6.06	5.4	SR4	5/20/2017 8:31	28.54	74.3	5.99	2.9	SR4	5/20/2017 14:31	28.31	74.3	5.99	4.9	SR4	5/20/2017 20:31	28.52	76.3	6.10	3.9
SR4	5/20/2017 2:36	28.52	75.3	6.07	4.0	SR4	5/20/2017 8:36	28.25	74.2	5.98	6.5	SR4	5/20/2017 14:36	28.45	74.9	6.04	5.1	SR4	5/20/2017 20:36	28.39	76.0	6.08	6.1
SR4	5/20/2017 2:41	28.36	74.3	5.99	7.3	SR4	5/20/2017 8:41	28.54	74.6	6.02	6.8	SR4	5/20/2017 14:41	28.25	74.5	6.01	4.4	SR4	5/20/2017 20:41	28.50	78.3	6.26	5.9
SR4	5/20/2017 2:46	28.39	74.6	6.02	2.5	SR4	5/20/2017 8:46	28.33	74.0	5.97	6.6	SR4	5/20/2017 14:46	28.31	75.0	6.05	5.1	SR4	5/20/2017 20:46	28.39	75.9	6.07	4.8
SR4	5/20/2017 2:51	28.36	74.9	6.04	4.3	SR4	5/20/2017 8:51	28.46	75.4	6.08	3.1	SR4	5/20/2017 14:51	28.42	77.0	6.16	6.1	SR4	5/20/2017 20:51	28.32	77.9	6.23	6.7
SR4	5/20/2017 2:56	28.48	75.0	6.05	7.8	SR4	5/20/2017 8:56	28.36	74.2	5.98	7.4	SR4	5/20/2017 14:56	28.54	80.1	6.41	6.1	SR4	5/20/2017 20:56	28.43	77.0	6.16	4.9
SR4	5/20/2017 3:01	28.34	74.3	5.99	5.1	SR4	5/20/2017 9:01	28.44	75.5	6.09	4.2	SR4	5/20/2017 15:01	28.41	77.3	6.18	4.0	SR4	5/20/2017 21:01	28.53	79.6	6.37	5.7
SR4	5/20/2017 3:06	28.36	73.8	5.95	3.6	SR4	5/20/2017 9:06	28.34	75.3	6.07	5.6	SR4	5/20/2017 15:06	28.50	77.9	6.23	6.0	SR4	5/20/2017 21:06	28.37	79.9	6.39	4.1
SR4	5/20/2017 3:11	28.32	74.4	6.00	5.7	SR4	5/20/2017 9:11	28.43	75.3	6.07	3.7	SR4	5/20/2017 15:11	28.44	77.8	6.22	6.5	SR4	5/20/2017 21:11	28.37	78.9	6.31	4.1
SR4	5/20/2017 3:16	28.27	74.4	6.00	7.4	SR4	5/20/2017 9:16	28.28	75.4	6.08	2.9	SR4	5/20/2017 15:16	28.33	80.5	6.44	5.5	SR4	5/20/2017 21:16	28.30	77.1	6.17	7.0
SR4	5/20/2017 3:21	28.47	74.0	5.97	6.2	SR4	5/20/2017 9:21	28.39	73.9	5.96	2.9	SR4	5/20/2017 15:21	28.30	79.3	6.34	7.4	SR4	5/20/2017 21:21	28.35	80.8	6.46	7.5
SR4	5/20/2017 3:26	28.33	73.7	5.94	4.6	SR4	5/20/2017 9:26	28.25	75.3	6.07	4.6	SR4	5/20/2017 15:26	28.44	78.5	6.28	8.4	SR4	5/20/2017 21:26	28.39	76.1	6.09	7.3
SR4	5/20/2017 3:31	28.53	75.0	6.05	3.9	SR4	5/20/2017 9:31	28.43	75.4	6.08	6.6	SR4	5/20/2017 15:31	28.48	75.8	6.06	4.4	SR4	5/20/2017 21:31	28.39	78.6	6.29	5.6
SR4	5/20/2017 3:36	28.40	74.9	6.04	5.3	SR4	5/20/2017 9:36	28.24	75.0	6.05	3.2	SR4	5/20/2017 15:36	28.32	78.4	6.27	6.2	SR4	5/20/2017 21:36	28.46	76.0	6.08	6.6
SR4	5/20/2017 3:41	28.27	75.5	6.09	2.5	SR4	5/20/2017 9:41	28.27	74.8	6.03	6.4	SR4	5/20/2017 15:41	28.50	76.8	6.14	5.0	SR4	5/20/2017 21:41	28.44	78.8	6.30	6.2
SR4	5/20/2017 3:46	28.45	73.9	5.96	3.0	SR4	5/20/2017 9:46	28.27	75.1	6.06	3.7	SR4	5/20/2017 15:46	28.26	79.0	6.32	5.6	SR4	5/20/2017 21:46	28.53	79.1	6.33	6.7
SR4	5/20/2017 3:51	28.32	74.0	5.97	2.8	SR4	5/20/2017 9:51	28.50	73.9	5.96	4.7	SR4	5/20/2017 15:51	28.50	76.3	6.10	8.0	SR4	5/20/2017 21:51	28.29	78.0	6.24	7.2
SR4	5/20/2017 3:56	28.41	73.9	5.96	3.8	SR4	5/20/2017 9:56	28.31															

24-hr Water Quality Monitoring

Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)
SR5	5/20/2017 0:01	28.52	75.3	6.07	5.0	SR5	5/20/2017 6:01	28.34	75.4	6.08	5.4	SR5	5/20/2017 12:01	28.33	74.2	5.98	5.1	SR5	5/20/2017 18:01	28.36	77.1	6.17	7.6
SR5	5/20/2017 0:06	28.47	74.4	6.00	4.1	SR5	5/20/2017 6:06	28.25	73.7	5.94	3.8	SR5	5/20/2017 12:06	28.41	73.7	5.94	5.0	SR5	5/20/2017 18:06	28.27	79.5	6.36	4.9
SR5	5/20/2017 0:11	28.48	75.3	6.07	4.9	SR5	5/20/2017 6:11	28.38	74.0	5.97	3.6	SR5	5/20/2017 12:11	28.31	75.4	6.08	2.7	SR5	5/20/2017 18:11	28.43	76.6	6.13	7.9
SR5	5/20/2017 0:16	28.24	74.9	6.04	4.0	SR5	5/20/2017 6:16	28.26	74.9	6.04	4.8	SR5	5/20/2017 12:16	28.43	74.2	5.98	4.0	SR5	5/20/2017 18:16	28.37	79.8	6.38	7.8
SR5	5/20/2017 0:21	28.46	74.6	6.02	3.3	SR5	5/20/2017 6:21	28.50	75.1	6.06	7.2	SR5	5/20/2017 12:21	28.46	74.5	6.01	5.5	SR5	5/20/2017 18:21	28.42	75.9	6.07	6.7
SR5	5/20/2017 0:26	28.30	74.3	5.99	6.5	SR5	5/20/2017 6:26	28.47	73.8	5.95	3.1	SR5	5/20/2017 12:26	28.37	74.4	6.00	8.0	SR5	5/20/2017 18:26	28.42	78.4	6.27	8.0
SR5	5/20/2017 0:31	28.24	74.9	6.04	6.0	SR5	5/20/2017 6:31	28.53	75.5	6.09	4.5	SR5	5/20/2017 12:31	28.50	74.6	6.02	2.9	SR5	5/20/2017 18:31	28.27	78.3	6.26	6.8
SR5	5/20/2017 0:36	28.36	74.8	6.03	3.9	SR5	5/20/2017 6:36	28.36	74.9	6.04	3.7	SR5	5/20/2017 12:36	28.53	74.0	5.97	7.9	SR5	5/20/2017 18:36	28.29	77.6	6.21	4.5
SR5	5/20/2017 0:41	28.51	74.9	6.04	3.0	SR5	5/20/2017 6:41	28.43	73.7	5.94	5.4	SR5	5/20/2017 12:41	28.35	73.8	5.95	3.0	SR5	5/20/2017 18:41	28.53	76.0	6.08	4.0
SR5	5/20/2017 0:46	28.36	74.6	6.02	5.2	SR5	5/20/2017 6:46	28.33	74.8	6.03	5.2	SR5	5/20/2017 12:46	28.53	74.8	6.03	7.7	SR5	5/20/2017 18:46	28.34	79.0	6.32	4.3
SR5	5/20/2017 0:51	28.30	74.2	5.98	6.5	SR5	5/20/2017 6:51	28.36	75.4	6.08	4.6	SR5	5/20/2017 12:51	28.45	74.2	5.98	2.9	SR5	5/20/2017 18:51	28.34	79.9	6.39	6.2
SR5	5/20/2017 0:56	28.54	75.0	6.05	7.3	SR5	5/20/2017 6:56	28.27	74.5	6.01	3.1	SR5	5/20/2017 12:56	28.24	75.4	6.08	8.0	SR5	5/20/2017 18:56	28.31	79.3	6.34	7.7
SR5	5/20/2017 1:01	28.29	75.1	6.06	5.7	SR5	5/20/2017 7:01	28.43	73.7	5.94	5.1	SR5	5/20/2017 13:01	28.29	74.6	6.02	4.9	SR5	5/20/2017 19:01	28.36	77.3	6.18	5.7
SR5	5/20/2017 1:06	28.46	75.1	6.06	3.6	SR5	5/20/2017 7:06	28.53	75.4	6.08	6.6	SR5	5/20/2017 13:06	28.44	74.9	6.04	6.1	SR5	5/20/2017 19:06	28.26	79.0	6.32	8.4
SR5	5/20/2017 1:11	28.30	74.8	6.03	3.7	SR5	5/20/2017 7:11	28.38	74.0	5.97	3.1	SR5	5/20/2017 13:11	28.36	74.2	5.98	7.0	SR5	5/20/2017 19:11	28.30	75.6	6.05	8.4
SR5	5/20/2017 1:16	28.29	75.3	6.07	3.3	SR5	5/20/2017 7:16	28.44	74.0	5.97	7.3	SR5	5/20/2017 13:16	28.46	74.6	6.02	4.1	SR5	5/20/2017 19:16	28.36	75.6	6.05	6.3
SR5	5/20/2017 1:21	28.29	75.5	6.09	4.2	SR5	5/20/2017 7:21	28.50	74.0	5.97	8.1	SR5	5/20/2017 13:21	28.29	74.3	5.99	5.4	SR5	5/20/2017 19:21	28.45	77.8	6.22	8.4
SR5	5/20/2017 1:26	28.38	74.5	6.01	5.0	SR5	5/20/2017 7:26	28.27	74.5	6.01	4.1	SR5	5/20/2017 13:26	28.50	74.9	6.04	7.1	SR5	5/20/2017 19:26	28.38	77.8	6.22	8.4
SR5	5/20/2017 1:31	28.26	75.3	6.07	5.6	SR5	5/20/2017 7:31	28.38	74.8	6.03	3.8	SR5	5/20/2017 13:31	28.39	74.5	6.01	5.6	SR5	5/20/2017 19:31	28.52	76.4	6.11	6.3
SR5	5/20/2017 1:36	28.37	74.2	5.98	4.3	SR5	5/20/2017 7:36	28.35	74.6	6.02	3.1	SR5	5/20/2017 13:36	28.44	73.7	5.94	3.9	SR5	5/20/2017 19:36	28.30	80.0	6.40	4.8
SR5	5/20/2017 1:41	28.46	73.8	5.95	3.3	SR5	5/20/2017 7:41	28.31	74.9	6.04	6.5	SR5	5/20/2017 13:41	28.46	74.4	6.00	6.6	SR5	5/20/2017 19:41	28.43	80.1	6.41	6.1
SR5	5/20/2017 1:46	28.26	74.5	6.01	7.4	SR5	5/20/2017 7:46	28.38	75.4	6.08	3.3	SR5	5/20/2017 13:46	28.32	74.5	6.01	3.7	SR5	5/20/2017 19:46	28.34	77.5	6.20	8.1
SR5	5/20/2017 1:51	28.48	75.3	6.07	3.0	SR5	5/20/2017 7:51	28.54	75.0	6.05	8.1	SR5	5/20/2017 13:51	28.35	75.4	6.08	6.7	SR5	5/20/2017 19:51	28.43	75.6	6.05	7.5
SR5	5/20/2017 1:56	28.27	73.9	5.96	3.4	SR5	5/20/2017 7:56	28.34	74.8	6.03	8.0	SR5	5/20/2017 13:56	28.30	75.5	6.09	7.2	SR5	5/20/2017 19:56	28.24	78.9	6.31	7.4
SR5	5/20/2017 2:01	28.43	75.0	6.05	5.9	SR5	5/20/2017 8:01	28.32	74.8	6.03	5.2	SR5	5/20/2017 14:01	28.37	75.5	6.09	4.3	SR5	5/20/2017 20:01	28.29	78.5	6.28	4.2
SR5	5/20/2017 2:06	28.31	74.8	6.03	5.5	SR5	5/20/2017 8:06	28.37	74.3	5.99	7.7	SR5	5/20/2017 14:06	28.30	75.1	6.06	6.2	SR5	5/20/2017 20:06	28.36	78.6	6.29	7.2
SR5	5/20/2017 2:11	28.27	74.5	6.01	5.7	SR5	5/20/2017 8:11	28.24	74.8	6.03	3.4	SR5	5/20/2017 14:11	28.36	74.3	5.99	4.3	SR5	5/20/2017 20:11	28.26	78.5	6.28	7.6
SR5	5/20/2017 2:16	28.48	75.1	6.06	3.8	SR5	5/20/2017 8:16	28.42	74.6	6.02	2.5	SR5	5/20/2017 14:16	28.33	75.5	6.09	4.9	SR5	5/20/2017 20:16	28.25	80.8	6.46	5.4
SR5	5/20/2017 2:21	28.24	74.0	5.97	5.4	SR5	5/20/2017 8:21	28.53	74.6	6.02	3.4	SR5	5/20/2017 14:21	28.33	75.0	6.05	5.2	SR5	5/20/2017 20:21	28.41	75.9	6.07	7.7
SR5	5/20/2017 2:26	28.34	75.3	6.07	2.6	SR5	5/20/2017 8:26	28.40	75.1	6.06	7.3	SR5	5/20/2017 14:26	28.52	75.1	6.06	4.1	SR5	5/20/2017 20:26	28.50	77.1	6.17	6.9
SR5	5/20/2017 2:31	28.53	75.1	6.06	5.4	SR5	5/20/2017 8:31	28.54	74.3	5.99	2.9	SR5	5/20/2017 14:31	28.31	74.3	5.99	4.9	SR5	5/20/2017 20:31	28.52	76.3	6.10	3.9
SR5	5/20/2017 2:36	28.52	75.3	6.07	4.0	SR5	5/20/2017 8:36	28.25	74.2	5.98	6.5	SR5	5/20/2017 14:36	28.45	74.9	6.04	5.1	SR5	5/20/2017 20:36	28.39	76.0	6.08	6.1
SR5	5/20/2017 2:41	28.36	74.3	5.99	7.3	SR5	5/20/2017 8:41	28.54	74.6	6.02	6.8	SR5	5/20/2017 14:41	28.25	74.5	6.01	4.4	SR5	5/20/2017 20:41	28.50	78.3	6.26	5.9
SR5	5/20/2017 2:46	28.39	74.6	6.02	2.5	SR5	5/20/2017 8:46	28.33	74.0	5.97	6.6	SR5	5/20/2017 14:46	28.31	75.0	6.05	5.1	SR5	5/20/2017 20:46	28.39	75.9	6.07	4.8
SR5	5/20/2017 2:51	28.36	74.9	6.04	4.3	SR5	5/20/2017 8:51	28.46	75.4	6.08	3.1	SR5	5/20/2017 14:51	28.42	77.0	6.16	6.1	SR5	5/20/2017 20:51	28.32	77.9	6.23	6.7
SR5	5/20/2017 2:56	28.48	75.0	6.05	7.8	SR5	5/20/2017 8:56	28.36	74.2	5.98	7.4	SR5	5/20/2017 14:56	28.54	80.1	6.41	6.1	SR5	5/20/2017 20:56	28.43	77.0	6.16	4.9
SR5	5/20/2017 3:01	28.34	74.3	5.99	5.1	SR5	5/20/2017 9:01	28.44	75.5	6.09	4.2	SR5	5/20/2017 15:01	28.41	77.3	6.18	4.0	SR5	5/20/2017 21:01	28.53	79.6	6.37	5.7
SR5	5/20/2017 3:06	28.36	73.8	5.95	3.6	SR5	5/20/2017 9:06	28.34	75.3	6.07	5.6	SR5	5/20/2017 15:06	28.50	77.9	6.23	6.0	SR5	5/20/2017 21:06	28.37	79.9	6.39	4.1
SR5	5/20/2017 3:11	28.32	74.4	6.00	5.7	SR5	5/20/2017 9:11	28.43	75.3	6.07	3.7	SR5	5/20/2017 15:11	28.44	77.8	6.22	6.5	SR5	5/20/2017 21:11	28.37	78.9	6.31	4.1
SR5	5/20/2017 3:16	28.27	74.4	6.00	7.4	SR5	5/20/2017 9:16	28.28	75.4	6.08	2.9	SR5	5/20/2017 15:16	28.33	80.5	6.44	5.5	SR5	5/20/2017 21:16	28.30	77.1	6.17	7.0
SR5	5/20/2017 3:21	28.47	74.0	5.97	6.2	SR5	5/20/2017 9:21	28.39	73.9	5.96	2.9	SR5	5/20/2017 15:21	28.30	79.3	6.34	7.4	SR5	5/20/2017 21:21	28.35	80.8	6.46	7.5
SR5	5/20/2017 3:26	28.33	73.7	5.94	4.6	SR5	5/20/2017 9:26	28.25	75.3	6.07	4.6	SR5	5/20/2017 15:26	28.44	78.5	6.28	8.4	SR5	5/20/2017 21:26	28.39	76.1	6.09	7.3
SR5	5/20/2017 3:31	28.53	75.0	6.05	3.9	SR5	5/20/2017 9:31	28.43	75.4	6.08	6.8	SR5	5/20/2017 15:31	28.48	75.8	6.06	4.4	SR5	5/20/2017 21:31	28.39	78.6	6.29	5.6
SR5	5/20/2017 3:36	28.40	74.9	6.04	5.3	SR5	5/20/2017 9:36	28.24	75.0	6.05	3.2	SR5	5/20/2017 15:36	28.32	78.4	6.27	6.2	SR5	5/20/2017 21:36	28.46	76.0	6.08	6.6
SR5	5/20/2017 3:41	28.27	75.5	6.09	2.5	SR5	5/20/2017 9:41	28.27	74.8	6.03	6.4	SR5	5/20/2017 15:41	28.50	76.8	6.14	5.0	SR5	5/20/2017 21:41	28.44	78.8	6.30	6.2
SR5	5/20/2017 3:46	28.45	73.9	5.96	3.0	SR5	5/20/2017 9:46	28.27	75.1	6.06	3.7	SR5	5/20/2017 15:46	28.26	79.0	6.32	5.6	SR5	5/20/2017 21:46	28.53	79.1	6.33	6.7
SR5	5/20/2017 3:51	28.32	74.0	5.97	2.8	SR5	5/20/2017 9:51	28.50	73.9	5.96	4.7	SR5	5/20/2017 15:51	28.50	76.3	6.10	8.0	SR5	5/20/2017 21:51	28.29	78.0	6.24	7.2
SR5	5/20/2017 3:56	28.41	73.9	5.96	3.8	SR5	5/20/2017 9:56	28.31	74.2	5.98													

## 24-hr Water Quality Monitoring

Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)
SR12	5/20/2017 0:01	28.52	75.3	6.07	5.0	SR12	5/20/2017 6:01	28.34	75.4	6.08	5.4	SR12	5/20/2017 12:01	28.33	74.2	5.98	5.1	SR12	5/20/2017 18:01	28.36	77.1	6.17	7.6
SR12	5/20/2017 0:06	28.47	74.4	6.00	4.1	SR12	5/20/2017 6:06	28.25	73.7	5.94	3.8	SR12	5/20/2017 12:06	28.41	73.7	5.94	5.0	SR12	5/20/2017 18:06	28.27	79.5	6.36	4.9
SR12	5/20/2017 0:11	28.48	75.3	6.07	4.9	SR12	5/20/2017 6:11	28.38	74.0	5.97	3.6	SR12	5/20/2017 12:11	28.31	75.4	6.08	2.7	SR12	5/20/2017 18:11	28.43	76.6	6.13	7.9
SR12	5/20/2017 0:16	28.24	74.9	6.04	4.0	SR12	5/20/2017 6:16	28.26	74.9	6.04	4.8	SR12	5/20/2017 12:16	28.43	74.2	5.98	4.0	SR12	5/20/2017 18:16	28.37	79.8	6.38	7.8
SR12	5/20/2017 0:21	28.46	74.6	6.02	3.3	SR12	5/20/2017 6:21	28.50	75.1	6.06	7.2	SR12	5/20/2017 12:21	28.46	74.5	6.01	5.5	SR12	5/20/2017 18:21	28.42	75.9	6.07	6.7
SR12	5/20/2017 0:26	28.30	74.3	5.99	6.5	SR12	5/20/2017 6:26	28.47	73.8	5.95	3.1	SR12	5/20/2017 12:26	28.37	74.4	6.00	8.0	SR12	5/20/2017 18:26	28.42	78.4	6.27	8.0
SR12	5/20/2017 0:31	28.24	74.9	6.04	6.0	SR12	5/20/2017 6:31	28.53	75.5	6.09	4.5	SR12	5/20/2017 12:31	28.50	74.6	6.02	2.9	SR12	5/20/2017 18:31	28.27	78.3	6.26	6.8
SR12	5/20/2017 0:36	28.36	74.8	6.03	3.9	SR12	5/20/2017 6:36	28.36	74.9	6.04	3.7	SR12	5/20/2017 12:36	28.53	74.0	5.97	7.9	SR12	5/20/2017 18:36	28.29	77.6	6.21	4.5
SR12	5/20/2017 0:41	28.51	74.9	6.04	3.0	SR12	5/20/2017 6:41	28.43	73.7	5.94	5.4	SR12	5/20/2017 12:41	28.35	73.8	5.95	3.0	SR12	5/20/2017 18:41	28.53	76.0	6.08	4.0
SR12	5/20/2017 0:46	28.36	74.6	6.02	5.2	SR12	5/20/2017 6:46	28.33	74.8	6.03	5.2	SR12	5/20/2017 12:46	28.53	74.8	6.03	7.7	SR12	5/20/2017 18:46	28.34	79.0	6.32	4.3
SR12	5/20/2017 0:51	28.30	74.2	5.98	6.5	SR12	5/20/2017 6:51	28.36	75.4	6.08	4.6	SR12	5/20/2017 12:51	28.45	74.2	5.98	2.9	SR12	5/20/2017 18:51	28.34	79.9	6.39	6.2
SR12	5/20/2017 0:56	28.54	75.0	6.05	7.3	SR12	5/20/2017 6:56	28.27	74.5	6.01	3.1	SR12	5/20/2017 12:56	28.24	75.4	6.08	8.0	SR12	5/20/2017 18:56	28.31	79.3	6.34	7.7
SR12	5/20/2017 1:01	28.29	75.1	6.06	5.7	SR12	5/20/2017 7:01	28.43	73.7	5.94	5.1	SR12	5/20/2017 13:01	28.29	74.6	6.02	4.9	SR12	5/20/2017 19:01	28.36	77.3	6.18	5.7
SR12	5/20/2017 1:06	28.46	75.1	6.06	3.6	SR12	5/20/2017 7:06	28.53	75.4	6.08	6.6	SR12	5/20/2017 13:06	28.44	74.9	6.04	6.1	SR12	5/20/2017 19:06	28.26	79.0	6.32	8.4
SR12	5/20/2017 1:11	28.30	74.8	6.03	3.7	SR12	5/20/2017 7:11	28.38	74.0	5.97	3.1	SR12	5/20/2017 13:11	28.36	74.2	5.98	7.0	SR12	5/20/2017 19:11	28.30	75.6	6.05	8.4
SR12	5/20/2017 1:16	28.29	75.3	6.07	3.3	SR12	5/20/2017 7:16	28.44	74.0	5.97	7.3	SR12	5/20/2017 13:16	28.46	74.6	6.02	4.1	SR12	5/20/2017 19:16	28.36	75.6	6.05	6.3
SR12	5/20/2017 1:21	28.29	75.5	6.09	4.2	SR12	5/20/2017 7:21	28.50	74.0	5.97	8.1	SR12	5/20/2017 13:21	28.29	74.3	5.99	5.4	SR12	5/20/2017 19:21	28.45	77.8	6.22	8.4
SR12	5/20/2017 1:26	28.38	74.5	6.01	5.0	SR12	5/20/2017 7:26	28.27	74.5	6.01	4.1	SR12	5/20/2017 13:26	28.50	74.9	6.04	7.1	SR12	5/20/2017 19:26	28.38	77.8	6.22	8.4
SR12	5/20/2017 1:31	28.26	75.3	6.07	5.6	SR12	5/20/2017 7:31	28.38	74.8	6.03	3.8	SR12	5/20/2017 13:31	28.39	74.5	6.01	5.6	SR12	5/20/2017 19:31	28.52	76.4	6.11	6.3
SR12	5/20/2017 1:36	28.37	74.2	5.98	4.3	SR12	5/20/2017 7:36	28.35	74.6	6.02	3.1	SR12	5/20/2017 13:36	28.44	73.7	5.94	3.9	SR12	5/20/2017 19:36	28.30	80.0	6.40	4.8
SR12	5/20/2017 1:41	28.46	73.8	5.95	3.3	SR12	5/20/2017 7:41	28.31	74.9	6.04	6.5	SR12	5/20/2017 13:41	28.46	74.4	6.00	6.6	SR12	5/20/2017 19:41	28.43	80.1	6.41	6.1
SR12	5/20/2017 1:46	28.26	74.5	6.01	7.4	SR12	5/20/2017 7:46	28.38	75.4	6.08	3.3	SR12	5/20/2017 13:46	28.32	74.5	6.01	3.7	SR12	5/20/2017 19:46	28.34	77.5	6.20	8.1
SR12	5/20/2017 1:51	28.48	75.3	6.07	3.0	SR12	5/20/2017 7:51	28.54	75.0	6.05	8.1	SR12	5/20/2017 13:51	28.35	75.4	6.08	6.7	SR12	5/20/2017 19:51	28.43	75.6	6.05	7.5
SR12	5/20/2017 1:56	28.27	73.9	5.96	3.4	SR12	5/20/2017 7:56	28.34	74.8	6.03	8.0	SR12	5/20/2017 13:56	28.30	75.5	6.09	7.2	SR12	5/20/2017 19:56	28.24	78.9	6.31	7.4
SR12	5/20/2017 2:01	28.43	75.0	6.05	5.9	SR12	5/20/2017 8:01	28.32	74.8	6.03	5.2	SR12	5/20/2017 14:01	28.37	75.5	6.09	4.3	SR12	5/20/2017 20:01	28.29	78.5	6.28	4.2
SR12	5/20/2017 2:06	28.31	74.8	6.03	5.5	SR12	5/20/2017 8:06	28.37	74.3	5.99	7.7	SR12	5/20/2017 14:06	28.30	75.1	6.06	6.2	SR12	5/20/2017 20:06	28.36	78.6	6.29	7.2
SR12	5/20/2017 2:11	28.27	74.5	6.01	5.7	SR12	5/20/2017 8:11	28.24	74.8	6.03	3.4	SR12	5/20/2017 14:11	28.36	74.3	5.99	4.3	SR12	5/20/2017 20:11	28.26	78.5	6.28	7.6
SR12	5/20/2017 2:16	28.48	75.1	6.06	3.8	SR12	5/20/2017 8:16	28.42	74.6	6.02	2.5	SR12	5/20/2017 14:16	28.33	75.5	6.09	4.9	SR12	5/20/2017 20:16	28.25	80.8	6.46	5.4
SR12	5/20/2017 2:21	28.24	74.0	5.97	5.4	SR12	5/20/2017 8:21	28.53	74.6	6.02	3.4	SR12	5/20/2017 14:21	28.33	75.0	6.05	5.2	SR12	5/20/2017 20:21	28.41	75.9	6.07	7.7
SR12	5/20/2017 2:26	28.34	75.3	6.07	2.6	SR12	5/20/2017 8:26	28.40	75.1	6.06	7.3	SR12	5/20/2017 14:26	28.52	75.1	6.06	4.1	SR12	5/20/2017 20:26	28.50	77.1	6.17	6.9
SR12	5/20/2017 2:31	28.53	75.1	6.06	5.4	SR12	5/20/2017 8:31	28.54	74.3	5.99	2.9	SR12	5/20/2017 14:31	28.31	74.3	5.99	4.9	SR12	5/20/2017 20:31	28.52	76.3	6.10	3.9
SR12	5/20/2017 2:36	28.52	75.3	6.07	4.0	SR12	5/20/2017 8:36	28.25	74.2	5.98	6.5	SR12	5/20/2017 14:36	28.45	74.9	6.04	5.1	SR12	5/20/2017 20:36	28.39	76.0	6.08	6.1
SR12	5/20/2017 2:41	28.36	74.3	5.99	7.3	SR12	5/20/2017 8:41	28.54	74.6	6.02	6.8	SR12	5/20/2017 14:41	28.25	74.5	6.01	4.4	SR12	5/20/2017 20:41	28.50	78.3	6.26	5.9
SR12	5/20/2017 2:46	28.39	74.6	6.02	2.5	SR12	5/20/2017 8:46	28.33	74.0	5.97	6.6	SR12	5/20/2017 14:46	28.31	75.0	6.05	5.1	SR12	5/20/2017 20:46	28.39	75.9	6.07	4.8
SR12	5/20/2017 2:51	28.36	74.9	6.04	4.3	SR12	5/20/2017 8:51	28.46	75.4	6.08	3.1	SR12	5/20/2017 14:51	28.42	77.0	6.16	6.1	SR12	5/20/2017 20:51	28.32	77.9	6.23	6.7
SR12	5/20/2017 2:56	28.48	75.0	6.05	7.8	SR12	5/20/2017 8:56	28.36	74.2	5.98	7.4	SR12	5/20/2017 14:56	28.54	80.1	6.41	6.1	SR12	5/20/2017 20:56	28.43	77.0	6.16	4.9
SR12	5/20/2017 3:01	28.34	74.3	5.99	5.1	SR12	5/20/2017 9:01	28.44	75.5	6.09	4.2	SR12	5/20/2017 15:01	28.41	77.3	6.18	4.0	SR12	5/20/2017 21:01	28.53	79.6	6.37	5.7
SR12	5/20/2017 3:06	28.36	73.8	5.95	3.6	SR12	5/20/2017 9:06	28.34	75.3	6.07	5.6	SR12	5/20/2017 15:06	28.50	77.9	6.23	6.0	SR12	5/20/2017 21:06	28.37	79.9	6.39	4.1
SR12	5/20/2017 3:11	28.32	74.4	6.00	5.7	SR12	5/20/2017 9:11	28.43	75.3	6.07	3.7	SR12	5/20/2017 15:11	28.44	77.8	6.22	6.5	SR12	5/20/2017 21:11	28.37	78.9	6.31	4.1
SR12	5/20/2017 3:16	28.27	74.4	6.00	7.4	SR12	5/20/2017 9:16	28.28	75.4	6.08	2.9	SR12	5/20/2017 15:16	28.33	80.5	6.44	5.5	SR12	5/20/2017 21:16	28.30	77.1	6.17	7.0
SR12	5/20/2017 3:21	28.47	74.0	5.97	6.2	SR12	5/20/2017 9:21	28.39	73.9	5.96	2.9	SR12	5/20/2017 15:21	28.30	79.3	6.34	7.4	SR12	5/20/2017 21:21	28.35	80.8	6.46	7.5
SR12	5/20/2017 3:26	28.33	73.7	5.94	4.6	SR12	5/20/2017 9:26	28.25	75.3	6.07	4.6	SR12	5/20/2017 15:26	28.44	78.5	6.28	8.4	SR12	5/20/2017 21:26	28.39	76.1	6.09	7.3
SR12	5/20/2017 3:31	28.53	75.0	6.05	3.9	SR12	5/20/2017 9:31	28.43	75.4	6.08	6.8	SR12	5/20/2017 15:31	28.48	75.8	6.06	4.4	SR12	5/20/2017 21:31	28.39	78.6	6.29	5.6
SR12	5/20/2017 3:36	28.40	74.9	6.04	5.3	SR12	5/20/2017 9:36	28.24	75.0	6.05	3.2	SR12	5/20/2017 15:36	28.32	78.4	6.27	6.2	SR12	5/20/2017 21:36	28.46	76.0	6.08	6.6
SR12	5/20/2017 3:41	28.27	75.5	6.09	2.5	SR12	5/20/2017 9:41	28.27	74.8	6.03	6.4	SR12	5/20/2017 15:41	28.50	76.8	6.14	5.0	SR12	5/20/2017 21:41	28.44	78.8	6.30	6.2
SR12	5/20/2017 3:46	28.45	73.9	5.96	3.0	SR12	5/20/2017 9:46	28.27	75.1	6.06	3.7	SR12	5/20/2017 15:46	28.26	79.0	6.32	5.6	SR12	5/20/2017 21:46	28.53	79.1	6.33	6.7
SR12	5/20/2017 3:51	28.32	74.0	5.97	2.8	SR12	5/20/2017 9:51	28.50	73.9	5.96	4.7	SR12	5/20/2017 15:51	28.50	76.3	6.10	8.0	SR1					

24-hr Water Quality Monitoring

Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)
SR13	5/20/2017 0:01	28.52	75.3	6.07	5.0	SR13	5/20/2017 6:01	28.34	75.4	6.08	5.4	SR13	5/20/2017 12:01	28.33	74.2	5.98	5.1	SR13	5/20/2017 18:01	28.36	77.1	6.17	7.6
SR13	5/20/2017 0:06	28.47	74.4	6.00	4.1	SR13	5/20/2017 6:06	28.25	73.7	5.94	3.8	SR13	5/20/2017 12:06	28.41	73.7	5.94	5.0	SR13	5/20/2017 18:06	28.27	79.5	6.36	4.9
SR13	5/20/2017 0:11	28.48	75.3	6.07	4.9	SR13	5/20/2017 6:11	28.38	74.0	5.97	3.6	SR13	5/20/2017 12:11	28.31	75.4	6.08	2.7	SR13	5/20/2017 18:11	28.43	76.6	6.13	7.9
SR13	5/20/2017 0:16	28.24	74.9	6.04	4.0	SR13	5/20/2017 6:16	28.26	74.9	6.04	4.8	SR13	5/20/2017 12:16	28.43	74.2	5.98	4.0	SR13	5/20/2017 18:16	28.37	79.8	6.38	7.8
SR13	5/20/2017 0:21	28.46	74.6	6.02	3.3	SR13	5/20/2017 6:21	28.50	75.1	6.06	7.2	SR13	5/20/2017 12:21	28.46	74.5	6.01	5.5	SR13	5/20/2017 18:21	28.42	75.9	6.07	6.7
SR13	5/20/2017 0:26	28.30	74.3	5.99	6.5	SR13	5/20/2017 6:26	28.47	73.8	5.95	3.1	SR13	5/20/2017 12:26	28.37	74.4	6.00	8.0	SR13	5/20/2017 18:26	28.42	78.4	6.27	8.0
SR13	5/20/2017 0:31	28.24	74.9	6.04	6.0	SR13	5/20/2017 6:31	28.53	75.5	6.09	4.5	SR13	5/20/2017 12:31	28.50	74.6	6.02	2.9	SR13	5/20/2017 18:31	28.27	78.3	6.26	6.8
SR13	5/20/2017 0:36	28.36	74.8	6.03	3.9	SR13	5/20/2017 6:36	28.36	74.9	6.04	3.7	SR13	5/20/2017 12:36	28.53	74.0	5.97	7.9	SR13	5/20/2017 18:36	28.29	77.6	6.21	4.5
SR13	5/20/2017 0:41	28.51	74.9	6.04	3.0	SR13	5/20/2017 6:41	28.43	73.7	5.94	5.4	SR13	5/20/2017 12:41	28.35	73.8	5.95	3.0	SR13	5/20/2017 18:41	28.53	76.0	6.08	4.0
SR13	5/20/2017 0:46	28.36	74.6	6.02	5.2	SR13	5/20/2017 6:46	28.33	74.8	6.03	5.2	SR13	5/20/2017 12:46	28.53	74.8	6.03	7.7	SR13	5/20/2017 18:46	28.34	79.0	6.32	4.3
SR13	5/20/2017 0:51	28.30	74.2	5.98	6.5	SR13	5/20/2017 6:51	28.36	75.4	6.08	4.6	SR13	5/20/2017 12:51	28.45	74.2	5.98	2.9	SR13	5/20/2017 18:51	28.34	79.9	6.39	6.2
SR13	5/20/2017 0:56	28.54	75.0	6.05	7.3	SR13	5/20/2017 6:56	28.27	74.5	6.01	3.1	SR13	5/20/2017 12:56	28.24	75.4	6.08	8.0	SR13	5/20/2017 18:56	28.31	79.3	6.34	7.7
SR13	5/20/2017 1:01	28.29	75.1	6.06	5.7	SR13	5/20/2017 7:01	28.43	73.7	5.94	5.1	SR13	5/20/2017 13:01	28.29	74.6	6.02	4.9	SR13	5/20/2017 19:01	28.36	77.3	6.18	5.7
SR13	5/20/2017 1:06	28.46	75.1	6.06	3.6	SR13	5/20/2017 7:06	28.53	75.4	6.08	6.6	SR13	5/20/2017 13:06	28.44	74.9	6.04	6.1	SR13	5/20/2017 19:06	28.26	79.0	6.32	8.4
SR13	5/20/2017 1:11	28.30	74.8	6.03	3.7	SR13	5/20/2017 7:11	28.38	74.0	5.97	3.1	SR13	5/20/2017 13:11	28.36	74.2	5.98	7.0	SR13	5/20/2017 19:11	28.30	75.6	6.05	8.4
SR13	5/20/2017 1:16	28.29	75.3	6.07	3.3	SR13	5/20/2017 7:16	28.44	74.0	5.97	7.3	SR13	5/20/2017 13:16	28.46	74.6	6.02	4.1	SR13	5/20/2017 19:16	28.36	75.6	6.05	6.3
SR13	5/20/2017 1:21	28.29	75.5	6.09	4.2	SR13	5/20/2017 7:21	28.50	74.0	5.97	8.1	SR13	5/20/2017 13:21	28.29	74.3	5.99	5.4	SR13	5/20/2017 19:21	28.45	77.8	6.22	8.4
SR13	5/20/2017 1:26	28.38	74.5	6.01	5.0	SR13	5/20/2017 7:26	28.27	74.5	6.01	4.1	SR13	5/20/2017 13:26	28.50	74.9	6.04	7.1	SR13	5/20/2017 19:26	28.38	77.8	6.22	8.4
SR13	5/20/2017 1:31	28.26	75.3	6.07	5.6	SR13	5/20/2017 7:31	28.38	74.8	6.03	3.8	SR13	5/20/2017 13:31	28.39	74.5	6.01	5.6	SR13	5/20/2017 19:31	28.52	76.4	6.11	6.3
SR13	5/20/2017 1:36	28.37	74.2	5.98	4.3	SR13	5/20/2017 7:36	28.35	74.6	6.02	3.1	SR13	5/20/2017 13:36	28.44	73.7	5.94	3.9	SR13	5/20/2017 19:36	28.30	80.0	6.40	4.8
SR13	5/20/2017 1:41	28.46	73.8	5.95	3.3	SR13	5/20/2017 7:41	28.31	74.9	6.04	6.5	SR13	5/20/2017 13:41	28.46	74.4	6.04	6.6	SR13	5/20/2017 19:41	28.43	80.1	6.41	6.1
SR13	5/20/2017 1:46	28.26	74.5	6.01	7.4	SR13	5/20/2017 7:46	28.38	75.4	6.08	3.3	SR13	5/20/2017 13:46	28.32	74.5	6.01	3.7	SR13	5/20/2017 19:46	28.34	77.5	6.20	8.1
SR13	5/20/2017 1:51	28.48	75.3	6.07	3.0	SR13	5/20/2017 7:51	28.54	75.0	6.05	8.1	SR13	5/20/2017 13:51	28.35	75.4	6.08	6.7	SR13	5/20/2017 19:51	28.43	75.6	6.05	7.5
SR13	5/20/2017 1:56	28.27	73.9	5.96	3.4	SR13	5/20/2017 7:56	28.34	74.8	6.03	8.0	SR13	5/20/2017 13:56	28.30	75.5	6.09	7.2	SR13	5/20/2017 19:56	28.24	78.9	6.31	7.4
SR13	5/20/2017 2:01	28.43	75.0	6.05	5.9	SR13	5/20/2017 8:01	28.32	74.8	6.03	5.2	SR13	5/20/2017 14:01	28.37	75.5	6.09	4.3	SR13	5/20/2017 20:01	28.29	78.5	6.28	4.2
SR13	5/20/2017 2:06	28.31	74.8	6.03	5.5	SR13	5/20/2017 8:06	28.37	74.3	5.99	7.7	SR13	5/20/2017 14:06	28.30	75.1	6.06	6.2	SR13	5/20/2017 20:06	28.36	78.6	6.29	7.2
SR13	5/20/2017 2:11	28.27	74.5	6.01	5.7	SR13	5/20/2017 8:11	28.24	74.8	6.03	3.4	SR13	5/20/2017 14:11	28.36	74.3	5.99	4.3	SR13	5/20/2017 20:11	28.26	78.5	6.28	7.6
SR13	5/20/2017 2:16	28.48	75.1	6.06	3.8	SR13	5/20/2017 8:16	28.42	74.6	6.02	2.5	SR13	5/20/2017 14:16	28.33	75.5	6.09	4.9	SR13	5/20/2017 20:16	28.25	80.8	6.46	5.4
SR13	5/20/2017 2:21	28.24	74.0	5.97	5.4	SR13	5/20/2017 8:21	28.53	74.6	6.02	3.4	SR13	5/20/2017 14:21	28.33	75.0	6.05	5.2	SR13	5/20/2017 20:21	28.41	75.9	6.07	7.7
SR13	5/20/2017 2:26	28.34	75.3	6.07	2.6	SR13	5/20/2017 8:26	28.40	75.1	6.06	7.3	SR13	5/20/2017 14:26	28.52	75.1	6.06	4.1	SR13	5/20/2017 20:26	28.50	77.1	6.17	6.9
SR13	5/20/2017 2:31	28.53	75.1	6.06	5.4	SR13	5/20/2017 8:31	28.54	74.3	5.99	2.9	SR13	5/20/2017 14:31	28.31	74.3	5.99	4.9	SR13	5/20/2017 20:31	28.52	76.3	6.10	3.9
SR13	5/20/2017 2:36	28.52	75.3	6.07	4.0	SR13	5/20/2017 8:36	28.25	74.2	5.98	6.5	SR13	5/20/2017 14:36	28.45	74.9	6.04	5.1	SR13	5/20/2017 20:36	28.39	76.0	6.08	6.1
SR13	5/20/2017 2:41	28.36	74.3	5.99	7.3	SR13	5/20/2017 8:41	28.54	74.6	6.02	6.8	SR13	5/20/2017 14:41	28.25	74.5	6.01	4.4	SR13	5/20/2017 20:41	28.50	78.3	6.26	5.9
SR13	5/20/2017 2:46	28.39	74.6	6.02	2.5	SR13	5/20/2017 8:46	28.33	74.0	5.97	6.6	SR13	5/20/2017 14:46	28.31	75.0	6.05	5.1	SR13	5/20/2017 20:46	28.39	75.9	6.07	4.8
SR13	5/20/2017 2:51	28.36	74.9	6.04	4.3	SR13	5/20/2017 8:51	28.46	75.4	6.08	3.1	SR13	5/20/2017 14:51	28.42	77.0	6.16	6.1	SR13	5/20/2017 20:51	28.32	77.9	6.23	6.7
SR13	5/20/2017 2:56	28.48	75.0	6.05	7.8	SR13	5/20/2017 8:56	28.36	74.2	5.98	7.4	SR13	5/20/2017 14:56	28.54	80.1	6.41	6.1	SR13	5/20/2017 20:56	28.43	77.0	6.16	4.9
SR13	5/20/2017 3:01	28.34	74.3	5.99	5.1	SR13	5/20/2017 9:01	28.44	75.5	6.09	4.2	SR13	5/20/2017 15:01	28.41	77.3	6.18	4.0	SR13	5/20/2017 21:01	28.53	79.6	6.37	5.7
SR13	5/20/2017 3:06	28.36	73.8	5.95	3.6	SR13	5/20/2017 9:06	28.34	75.3	6.07	5.6	SR13	5/20/2017 15:06	28.50	77.9	6.23	6.0	SR13	5/20/2017 21:06	28.37	79.9	6.39	4.1
SR13	5/20/2017 3:11	28.32	74.4	6.00	5.7	SR13	5/20/2017 9:11	28.43	75.3	6.07	3.7	SR13	5/20/2017 15:11	28.44	77.8	6.22	6.5	SR13	5/20/2017 21:11	28.37	78.9	6.31	4.1
SR13	5/20/2017 3:16	28.27	74.4	6.00	7.4	SR13	5/20/2017 9:16	28.28	75.4	6.08	2.9	SR13	5/20/2017 15:16	28.33	80.5	6.44	5.5	SR13	5/20/2017 21:16	28.30	77.1	6.17	7.0
SR13	5/20/2017 3:21	28.47	74.0	5.97	6.2	SR13	5/20/2017 9:21	28.39	73.9	5.96	2.9	SR13	5/20/2017 15:21	28.30	79.3	6.34	7.4	SR13	5/20/2017 21:21	28.35	80.8	6.46	7.5
SR13	5/20/2017 3:26	28.33	73.7	5.94	4.6	SR13	5/20/2017 9:26	28.25	75.3	6.07	4.6	SR13	5/20/2017 15:26	28.44	78.5	6.28	8.4	SR13	5/20/2017 21:26	28.39	76.1	6.09	7.3
SR13	5/20/2017 3:31	28.53	75.0	6.05	3.9	SR13	5/20/2017 9:31	28.43	75.4	6.08	6.8	SR13	5/20/2017 15:31	28.48	75.8	6.06	4.4	SR13	5/20/2017 21:31	28.39	78.6	6.29	5.6
SR13	5/20/2017 3:36	28.40	74.9	6.04	5.3	SR13	5/20/2017 9:36	28.24	75.0	6.05	3.2	SR13	5/20/2017 15:36	28.32	78.4	6.27	6.2	SR13	5/20/2017 21:36	28.46	76.0	6.08	6.6
SR13	5/20/2017 3:41	28.27	75.5	6.09	2.5	SR13	5/20/2017 9:41	28.27	74.8	6.03	6.4	SR13	5/20/2017 15:41	28.50	76.8	6.14	5.0	SR13	5/20/2017 21:41	28.44	78.8	6.30	6.2
SR13	5/20/2017 3:46	28.45	73.9	5.96	3.0	SR13	5/20/2017 9:46	28.27	75.1	6.06	3.7	SR13	5/20/2017 15:4										

24-hr Water Quality Monitoring

Station	Timestamp	NH <sub>3</sub> (mg/L)				Station	Timestamp	NH <sub>3</sub> (mg/L)			
SR4	5/20/2017 0:17	0.13				SR12	5/20/2017 0:17	0.14			
SR4	5/20/2017 0:37	0.15				SR12	5/20/2017 0:37	0.16			
SR4	5/20/2017 0:57	0.14				SR12	5/20/2017 0:57	0.18			
SR4	5/20/2017 1:17	0.11				SR12	5/20/2017 1:17	0.16			
SR4	5/20/2017 1:37	0.11				SR12	5/20/2017 1:37	0.18			
SR4	5/20/2017 1:57	0.13				SR12	5/20/2017 1:57	0.18			
SR4	5/20/2017 2:17	0.12				SR12	5/20/2017 2:17	0.16			
SR4	5/20/2017 2:37	0.16				SR12	5/20/2017 2:37	0.17			
SR4	5/20/2017 2:57	0.16				SR12	5/20/2017 2:57	0.17			
SR4	5/20/2017 3:17	0.13				SR12	5/20/2017 3:17	0.17			
SR4	5/20/2017 3:37	0.13				SR12	5/20/2017 3:37	0.16			
SR4	5/20/2017 3:57	0.14				SR12	5/20/2017 3:57	0.19			
SR4	5/20/2017 4:17	0.14				SR12	5/20/2017 4:17	0.17			
SR4	5/20/2017 4:37	0.15				SR12	5/20/2017 4:37	0.19			
SR4	5/20/2017 4:57	0.14				SR12	5/20/2017 4:57	0.20			
SR4	5/20/2017 5:17	0.15				SR12	5/20/2017 5:17	0.20			
SR4	5/20/2017 5:37	0.13				SR12	5/20/2017 5:37	0.17			
SR4	5/20/2017 5:57	0.14				SR12	5/20/2017 5:57	0.17			
SR4						SR12					
SR4	5/20/2017 6:37	0.12				SR12	5/20/2017 6:37	0.18			
SR4	5/20/2017 6:57	0.14				SR12	5/20/2017 6:57	0.20			
SR4	5/20/2017 7:17	0.15				SR12	5/20/2017 7:17	0.19			
SR4	5/20/2017 7:37	0.11				SR12	5/20/2017 7:37	0.20			
SR4	5/20/2017 7:57	0.11				SR12	5/20/2017 7:57	0.22			
SR4	5/20/2017 8:17	0.16				SR12	5/20/2017 8:17	0.18			
SR4	5/20/2017 8:37	0.11				SR12	5/20/2017 8:37	0.19			
SR4	5/20/2017 8:57	0.14				SR12	5/20/2017 8:57	0.19			
SR4	5/20/2017 9:17	0.14				SR12	5/20/2017 9:17	0.20			
SR4	5/20/2017 9:37	0.12				SR12	5/20/2017 9:37	0.18			
SR4	5/20/2017 9:57	0.11				SR12	5/20/2017 9:57	0.23			
SR4	5/20/2017 10:17	0.13				SR12	5/20/2017 10:17	0.22			
SR4	5/20/2017 10:37	0.16				SR12	5/20/2017 10:37	0.20			
SR4	5/20/2017 10:57	0.15				SR12	5/20/2017 10:57	0.20			
SR4	5/20/2017 11:17	0.12				SR12	5/20/2017 11:17	0.20			
SR4	5/20/2017 11:37	0.12				SR12	5/20/2017 11:37	0.22			
SR4	5/20/2017 11:57	0.16				SR12	5/20/2017 11:57	0.21			
SR4	5/20/2017 12:17	0.16				SR12	5/20/2017 12:17	0.23			
SR4	5/20/2017 12:37	0.16				SR12	5/20/2017 12:37	0.22			
SR4	5/20/2017 12:57	0.14				SR12	5/20/2017 12:57	0.20			
SR4	5/20/2017 13:17	0.13				SR12	5/20/2017 13:17	0.18			
SR4	5/20/2017 13:37	0.14				SR12	5/20/2017 13:37	0.18			
SR4	5/20/2017 13:57	0.12				SR12	5/20/2017 13:57	0.18			
SR4	5/20/2017 14:17	0.13				SR12	5/20/2017 14:17	0.15			
SR4	5/20/2017 14:37	0.15				SR12	5/20/2017 14:37	0.18			
SR4	5/20/2017 14:57	0.15				SR12	5/20/2017 14:57	0.18			
SR4	5/20/2017 15:17	0.12				SR12	5/20/2017 15:17	0.14			
SR4	5/20/2017 15:37	0.12				SR12	5/20/2017 15:37	0.14			
SR4	5/20/2017 15:57	0.11				SR12	5/20/2017 15:57	0.16			
SR4	5/20/2017 16:17	0.15				SR12	5/20/2017 16:17	0.18			
SR4	5/20/2017 16:37	0.13				SR12	5/20/2017 16:37	0.15			
SR4	5/20/2017 16:57	0.11				SR12	5/20/2017 16:57	0.14			
SR4	5/20/2017 17:17	0.12				SR12	5/20/2017 17:17	0.15			
SR4	5/20/2017 17:37	0.16				SR12	5/20/2017 17:37	0.16			
SR4	5/20/2017 17:57	0.13				SR12	5/20/2017 17:57	0.17			
SR4	5/20/2017 18:17	0.13				SR12	5/20/2017 18:17	0.16			
SR4	5/20/2017 18:37	0.14				SR12	5/20/2017 18:37	0.18			
SR4	5/20/2017 18:57	0.13				SR12	5/20/2017 18:57	0.18			
SR4	5/20/2017 19:17	0.13				SR12	5/20/2017 19:17	0.14			
SR4	5/20/2017 19:37	0.14				SR12	5/20/2017 19:37	0.17			
SR4	5/20/2017 19:57	0.12				SR12	5/20/2017 19:57	0.16			
SR4	5/20/2017 20:17	0.13				SR12	5/20/2017 20:17	0.15			
SR4	5/20/2017 20:37	0.14				SR12	5/20/2017 20:37	0.16			
SR4	5/20/2017 20:57	0.12				SR12	5/20/2017 20:57	0.15			
SR4	5/20/2017 21:17	0.12				SR12	5/20/2017 21:17	0.17			
SR4	5/20/2017 21:37	0.13				SR12	5/20/2017 21:37	0.17			
SR4	5/20/2017 21:57	0.14				SR12	5/20/2017 21:57	0.18			
SR4	5/20/2017 22:17	0.13				SR12	5/20/2017 22:17	0.15			
SR4	5/20/2017 22:37	0.14				SR12	5/20/2017 22:37	0.18			
SR4	5/20/2017 22:57	0.12				SR12	5/20/2017 22:57	0.15			
SR4	5/20/2017 23:17	0.13				SR12	5/20/2017 23:17	0.14			
SR4	5/20/2017 23:37	0.14				SR12	5/20/2017 23:37	0.14			
SR4	5/20/2017 23:57	0.12				SR12	5/20/2017 23:57	0.15			

Remark: Fonts with underline: Action Level Exceedance

**Fonts in Bold with underline: Limit Level Exceedance**

Automatic Instrument calibration of NH<sub>3</sub>-N monitor was carried out during 5:57-6:37 at SR4 and SR12.

24-hr Water Quality Monitoring

Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)
SR4	5/21/2017 0:01	28.35	78.9	6.31	5.3	SR4	5/21/2017 6:01	28.38	75.8	6.06	4.8	SR4	5/21/2017 12:01	28.38	80.8	6.46	7.6	SR4	5/21/2017 18:01	28.47	77.5	6.25	9.3
SR4	5/21/2017 0:06	28.46	79.0	6.32	4.7	SR4	5/21/2017 6:06	28.25	78.6	6.29	5.4	SR4	5/21/2017 12:06	28.42	79.1	6.33	3.9	SR4	5/21/2017 18:06	28.54	77.6	6.26	7.6
SR4	5/21/2017 0:11	28.35	76.3	6.10	4.6	SR4	5/21/2017 6:11	28.50	77.3	6.18	7.0	SR4	5/21/2017 12:11	28.47	79.6	6.37	6.2	SR4	5/21/2017 18:11	28.28	77.7	6.27	6.9
SR4	5/21/2017 0:16	28.36	80.6	6.45	4.4	SR4	5/21/2017 6:16	28.43	76.8	6.14	4.7	SR4	5/21/2017 12:16	28.30	75.6	6.05	4.7	SR4	5/21/2017 18:16	28.45	77.0	6.21	7.2
SR4	5/21/2017 0:21	28.36	79.3	6.34	8.4	SR4	5/21/2017 6:21	28.52	76.9	6.15	4.0	SR4	5/21/2017 12:21	28.51	78.4	6.27	5.7	SR4	5/21/2017 18:21	28.29	77.5	6.25	8.2
SR4	5/21/2017 0:26	28.34	80.6	6.45	8.3	SR4	5/21/2017 6:26	28.44	77.9	6.23	4.5	SR4	5/21/2017 12:26	28.45	79.1	6.33	7.8	SR4	5/21/2017 18:26	28.51	77.1	6.22	8.3
SR4	5/21/2017 0:31	28.29	79.8	6.38	8.3	SR4	5/21/2017 6:31	28.26	76.4	6.11	8.4	SR4	5/21/2017 12:31	28.47	80.5	6.44	8.3	SR4	5/21/2017 18:31	28.34	77.9	6.28	6.4
SR4	5/21/2017 0:36	28.36	76.6	6.13	5.0	SR4	5/21/2017 6:36	28.28	77.6	6.21	5.0	SR4	5/21/2017 12:36	28.36	77.5	6.20	7.1	SR4	5/21/2017 18:36	28.46	77.9	6.28	7.3
SR4	5/21/2017 0:41	28.36	78.6	6.29	6.0	SR4	5/21/2017 6:41	28.48	79.6	6.37	7.2	SR4	5/21/2017 12:41	28.32	78.5	6.28	8.3	SR4	5/21/2017 18:41	28.50	77.9	6.28	6.6
SR4	5/21/2017 0:46	28.27	76.1	6.09	5.8	SR4	5/21/2017 6:46	28.47	79.4	6.35	6.6	SR4	5/21/2017 12:46	28.40	76.3	6.10	7.3	SR4	5/21/2017 18:46	28.37	77.3	6.23	6.9
SR4	5/21/2017 0:51	28.24	80.1	6.41	6.8	SR4	5/21/2017 6:51	28.35	80.8	6.46	4.0	SR4	5/21/2017 12:51	28.46	76.5	6.12	8.5	SR4	5/21/2017 18:51	28.50	77.1	6.22	8.2
SR4	5/21/2017 0:56	28.29	77.5	6.20	5.8	SR4	5/21/2017 6:56	28.31	79.1	6.33	8.5	SR4	5/21/2017 12:56	28.35	79.9	6.39	6.3	SR4	5/21/2017 18:56	28.44	77.4	6.24	9.2
SR4	5/21/2017 1:01	28.45	80.0	6.40	7.2	SR4	5/21/2017 7:01	28.26	77.1	6.17	8.3	SR4	5/21/2017 13:01	28.32	79.1	6.33	5.1	SR4	5/21/2017 19:01	28.28	77.9	6.28	6.6
SR4	5/21/2017 1:06	28.51	76.6	6.13	4.0	SR4	5/21/2017 7:06	28.36	76.1	6.09	8.0	SR4	5/21/2017 13:06	28.27	77.8	6.22	7.1	SR4	5/21/2017 19:06	28.36	77.3	6.23	7.4
SR4	5/21/2017 1:11	28.48	79.0	6.32	4.4	SR4	5/21/2017 7:11	28.29	79.4	6.35	6.4	SR4	5/21/2017 13:11	28.43	80.1	6.41	6.0	SR4	5/21/2017 19:11	28.42	77.7	6.27	8.0
SR4	5/21/2017 1:16	28.26	79.3	6.34	6.9	SR4	5/21/2017 7:16	28.31	76.4	6.11	4.6	SR4	5/21/2017 13:16	28.31	76.6	6.13	8.7	SR4	5/21/2017 19:16	28.37	77.2	6.27	7.0
SR4	5/21/2017 1:21	28.31	80.3	6.42	7.3	SR4	5/21/2017 7:21	28.35	76.5	6.12	5.7	SR4	5/21/2017 13:21	28.28	79.9	6.39	6.6	SR4	5/21/2017 19:21	28.34	77.7	6.27	7.1
SR4	5/21/2017 1:26	28.54	80.4	6.43	6.6	SR4	5/21/2017 7:26	28.51	78.1	6.25	6.2	SR4	5/21/2017 13:26	28.41	78.5	6.28	4.9	SR4	5/21/2017 19:26	28.53	77.5	6.25	8.1
SR4	5/21/2017 1:31	28.30	75.8	6.06	8.4	SR4	5/21/2017 7:31	28.53	80.3	6.42	4.5	SR4	5/21/2017 13:31	28.44	76.0	6.08	6.0	SR4	5/21/2017 19:31	28.48	77.4	6.24	8.4
SR4	5/21/2017 1:36	28.34	77.3	6.18	6.3	SR4	5/21/2017 7:36	28.44	80.0	6.40	5.5	SR4	5/21/2017 13:36	28.37	79.3	6.34	8.1	SR4	5/21/2017 19:36	28.31	77.9	6.28	6.5
SR4	5/21/2017 1:41	28.30	75.9	6.07	7.9	SR4	5/21/2017 7:41	28.26	79.5	6.36	7.1	SR4	5/21/2017 13:41	28.44	78.5	6.28	8.8	SR4	5/21/2017 19:41	28.44	77.7	6.27	8.5
SR4	5/21/2017 1:46	28.52	76.0	6.08	7.3	SR4	5/21/2017 7:46	28.46	76.0	6.08	6.5	SR4	5/21/2017 13:46	28.37	79.1	6.33	4.4	SR4	5/21/2017 19:46	28.35	77.1	6.22	6.6
SR4	5/21/2017 1:51	28.31	79.5	6.36	5.9	SR4	5/21/2017 7:51	28.33	76.9	6.15	4.7	SR4	5/21/2017 13:51	28.41	76.8	6.14	6.5	SR4	5/21/2017 19:51	28.25	77.5	6.25	8.8
SR4	5/21/2017 1:56	28.47	80.8	6.46	8.0	SR4	5/21/2017 7:56	28.44	79.6	6.37	4.6	SR4	5/21/2017 13:56	28.45	75.9	6.07	5.6	SR4	5/21/2017 19:56	28.48	77.4	6.24	8.2
SR4	5/21/2017 2:01	28.37	80.6	6.45	7.5	SR4	5/21/2017 8:01	28.41	78.9	6.31	8.8	SR4	5/21/2017 14:01	28.27	77.8	6.22	8.7	SR4	5/21/2017 20:01	28.51	77.0	6.21	7.1
SR4	5/21/2017 2:06	28.48	78.8	6.30	8.8	SR4	5/21/2017 8:06	28.41	78.0	6.24	6.6	SR4	5/21/2017 14:06	28.26	80.3	6.42	6.2	SR4	5/21/2017 20:06	28.53	77.3	6.23	6.9
SR4	5/21/2017 2:11	28.51	75.5	6.04	5.9	SR4	5/21/2017 8:11	28.33	78.1	6.25	4.5	SR4	5/21/2017 14:11	28.35	79.1	6.33	5.9	SR4	5/21/2017 20:11	28.33	77.0	6.21	7.0
SR4	5/21/2017 2:16	28.25	80.0	6.40	6.9	SR4	5/21/2017 8:16	28.27	77.1	6.17	6.3	SR4	5/21/2017 14:16	28.31	79.6	6.37	8.7	SR4	5/21/2017 20:16	28.45	77.7	6.27	6.8
SR4	5/21/2017 2:21	28.28	78.1	6.25	8.2	SR4	5/21/2017 8:21	28.45	75.5	6.04	4.8	SR4	5/21/2017 14:21	28.47	77.8	6.22	6.8	SR4	5/21/2017 20:21	28.26	77.0	6.21	6.8
SR4	5/21/2017 2:26	28.29	78.3	6.26	7.4	SR4	5/21/2017 8:26	28.41	80.4	6.43	4.2	SR4	5/21/2017 14:26	28.44	76.1	6.09	5.5	SR4	5/21/2017 20:26	28.41	78.0	6.29	6.9
SR4	5/21/2017 2:31	28.34	79.0	6.32	6.7	SR4	5/21/2017 8:31	28.24	77.0	6.16	4.8	SR4	5/21/2017 14:31	28.34	80.0	6.40	5.0	SR4	5/21/2017 20:31	28.54	78.0	6.29	6.4
SR4	5/21/2017 2:36	28.37	77.1	6.17	5.8	SR4	5/21/2017 8:36	28.47	80.5	6.44	8.5	SR4	5/21/2017 14:36	28.30	80.1	6.41	7.6	SR4	5/21/2017 20:36	28.42	77.1	6.22	8.2
SR4	5/21/2017 2:41	28.34	79.9	6.39	4.2	SR4	5/21/2017 8:41	28.30	80.0	6.40	4.8	SR4	5/21/2017 14:41	28.40	78.6	6.29	8.0	SR4	5/21/2017 20:41	28.41	77.4	6.24	8.8
SR4	5/21/2017 2:46	28.26	76.3	6.10	3.9	SR4	5/21/2017 8:46	28.37	75.6	6.05	7.7	SR4	5/21/2017 14:46	28.48	77.4	6.24	6.7	SR4	5/21/2017 20:46	28.41	77.1	6.22	8.3
SR4	5/21/2017 2:51	28.31	78.1	6.25	8.3	SR4	5/21/2017 8:51	28.30	80.5	6.44	8.2	SR4	5/21/2017 14:51	28.46	78.0	6.29	9.1	SR4	5/21/2017 20:51	28.49	77.7	6.27	7.8
SR4	5/21/2017 2:56	28.54	80.6	6.45	6.2	SR4	5/21/2017 8:56	28.28	79.3	6.34	4.2	SR4	5/21/2017 14:56	28.39	77.5	6.25	9.1	SR4	5/21/2017 20:56	28.40	77.0	6.21	8.3
SR4	5/21/2017 3:01	28.28	76.8	6.14	5.2	SR4	5/21/2017 9:01	28.44	76.3	6.10	5.9	SR4	5/21/2017 15:01	28.42	77.1	6.22	9.4	SR4	5/21/2017 21:01	28.35	77.9	6.28	8.3
SR4	5/21/2017 3:06	28.31	77.0	6.16	3.9	SR4	5/21/2017 9:06	28.53	79.5	6.36	4.2	SR4	5/21/2017 15:06	28.51	77.9	6.28	6.9	SR4	5/21/2017 21:06	28.50	77.0	6.21	9.3
SR4	5/21/2017 3:11	28.31	75.6	6.05	8.6	SR4	5/21/2017 9:11	28.41	78.3	6.26	8.6	SR4	5/21/2017 15:11	28.45	77.6	6.26	8.2	SR4	5/21/2017 21:11	28.29	77.9	6.28	6.9
SR4	5/21/2017 3:16	28.54	79.5	6.36	6.1	SR4	5/21/2017 9:16	28.47	77.0	6.16	6.3	SR4	5/21/2017 15:16	28.24	77.7	6.27	8.4	SR4	5/21/2017 21:16	28.37	77.4	6.24	9.4
SR4	5/21/2017 3:21	28.38	78.3	6.26	5.9	SR4	5/21/2017 9:21	28.47	80.1	6.41	6.5	SR4	5/21/2017 15:21	28.43	77.0	6.21	8.1	SR4	5/21/2017 21:21	28.54	77.6	6.26	8.1
SR4	5/21/2017 3:26	28.33	78.3	6.26	7.1	SR4	5/21/2017 9:26	28.42	79.1	6.33	7.9	SR4	5/21/2017 15:26	28.30	77.3	6.23	7.5	SR4	5/21/2017 21:26	28.25	77.1	6.22	6.8
SR4	5/21/2017 3:31	28.28	80.1	6.41	5.8	SR4	5/21/2017 9:31	28.38	75.9	6.07	8.1	SR4	5/21/2017 15:31	28.28	77.0	6.21	9.3	SR4	5/21/2017 21:31	28.33	77.3	6.23	7.0
SR4	5/21/2017 3:36	28.30	77.1	6.17	8.7	SR4	5/21/2017 9:36	28.37	77.3	6.18	4.8	SR4	5/21/2017 15:36	28.47	77.1	6.22	7.2	SR4	5/21/2017 21:36	28.33	77.6	6.26	7.8
SR4	5/21/2017 3:41	28.50	79.3	6.34	4.4	SR4	5/21/2017 9:41	28.52	76.3	6.10	5.7	SR4	5/21/2017 15:41	28.47	77.6	6.26	9.4	SR4	5/21/2017 21:41	28.39	77.3	6.23	7.5
SR4	5/21/2017 3:46	28.41	79.4	6.35	7.7	SR4	5/21/2017 9:46	28.24	75.6	6.05	4.7	SR4	5/21/2017 15:46	28.26	77.1	6.22	7.7	SR4	5/21/2017 21:46	28.41	78.0	6.29	6.5
SR4	5/21/2017 3:51	28.44	78.8	6.30	5.2	SR4	5/21/2017 9:51	28.24	80.8	6.46	7.1	SR4	5/21/2017 15:51	28.36	77.3	6.23	7.1	SR4	5/21/2017 21:51	28.25	77.1	6.22	9.3
SR4	5/21/2017 3:56	28.44	75.5	6.04	4.3	SR4	5/21/2017 9:56	28.36	76.6	6.13													

24-hr Water Quality Monitoring

Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)
SR5	5/21/2017 0:00	28.05	74.5	6.01	8.0	SR5	5/21/2017 6:00	28.00	71.3	5.75	7.4	SR5	5/21/2017 12:00	27.94	70.8	5.71	5.4	SR5	5/21/2017 18:00	27.94	67.0	5.40	6.0
SR5	5/21/2017 0:05	28.02	73.4	5.92	6.9	SR5	5/21/2017 6:05	27.95	72.5	5.85	5.8	SR5	5/21/2017 12:05	27.93	71.5	5.77	5.4	SR5	5/21/2017 18:05	27.94	66.3	5.35	8.8
SR5	5/21/2017 0:10	28.02	74.2	5.98	8.8	SR5	5/21/2017 6:10	27.98	71.1	5.73	6.5	SR5	5/21/2017 12:10	27.90	71.5	5.77	5.9	SR5	5/21/2017 18:10	27.94	66.3	5.35	7.9
SR5	5/21/2017 0:15	28.04	73.3	5.91	9.4	SR5	5/21/2017 6:15	28.01	71.9	5.80	5.8	SR5	5/21/2017 12:15	27.88	70.3	5.67	7.7	SR5	5/21/2017 18:15	27.97	66.6	5.37	7.1
SR5	5/21/2017 0:20	28.02	73.7	5.94	8.9	SR5	5/21/2017 6:20	28.01	73.0	5.89	7.2	SR5	5/21/2017 12:20	27.93	73.3	5.91	7.3	SR5	5/21/2017 18:20	27.96	66.6	5.37	6.1
SR5	5/21/2017 0:25	28.00	73.0	5.89	8.1	SR5	5/21/2017 6:25	27.97	72.2	5.82	5.9	SR5	5/21/2017 12:25	27.94	70.7	5.70	6.3	SR5	5/21/2017 18:25	27.93	66.1	5.33	7.2
SR5	5/21/2017 0:30	28.02	72.9	5.88	7.4	SR5	5/21/2017 6:30	27.96	70.4	5.68	6.8	SR5	5/21/2017 12:30	27.91	70.6	5.69	6.4	SR5	5/21/2017 18:30	27.96	66.7	5.38	6.1
SR5	5/21/2017 0:35	28.00	73.8	5.95	9.1	SR5	5/21/2017 6:35	27.96	72.8	5.87	7.4	SR5	5/21/2017 12:35	27.91	70.6	5.69	7.1	SR5	5/21/2017 18:35	27.98	66.0	5.32	7.5
SR5	5/21/2017 0:40	28.03	74.8	6.03	9.4	SR5	5/21/2017 6:40	27.95	71.4	5.76	5.6	SR5	5/21/2017 12:40	27.90	70.4	5.68	6.6	SR5	5/21/2017 18:40	27.98	65.8	5.31	7.4
SR5	5/21/2017 0:45	28.03	73.2	5.90	7.8	SR5	5/21/2017 6:45	27.99	70.7	5.70	6.0	SR5	5/21/2017 12:45	27.90	70.2	5.66	6.9	SR5	5/21/2017 18:45	27.98	66.6	5.37	8.1
SR5	5/21/2017 0:50	28.04	74.9	6.04	9.2	SR5	5/21/2017 6:50	27.97	71.8	5.79	5.7	SR5	5/21/2017 12:50	27.92	68.8	5.55	7.2	SR5	5/21/2017 18:50	27.94	66.6	5.37	8.9
SR5	5/21/2017 0:55	28.03	73.9	5.96	7.2	SR5	5/21/2017 6:55	27.97	71.4	5.76	6.8	SR5	5/21/2017 12:55	27.91	67.2	5.42	8.9	SR5	5/21/2017 18:55	27.94	66.5	5.36	7.5
SR5	5/21/2017 1:00	28.04	73.5	5.93	7.8	SR5	5/21/2017 7:00	27.99	73.3	5.91	7.8	SR5	5/21/2017 13:00	27.89	69.7	5.62	9.0	SR5	5/21/2017 19:00	27.96	66.3	5.35	7.9
SR5	5/21/2017 1:05	28.04	74.2	5.98	9.4	SR5	5/21/2017 7:05	27.96	73.3	5.91	7.1	SR5	5/21/2017 13:05	27.90	69.3	5.59	7.2	SR5	5/21/2017 19:05	27.98	66.2	5.34	7.7
SR5	5/21/2017 1:10	28.01	74.5	6.01	8.4	SR5	5/21/2017 7:10	27.98	70.6	5.69	6.8	SR5	5/21/2017 13:10	27.93	69.7	5.62	8.6	SR5	5/21/2017 19:10	27.94	66.7	5.38	8.3
SR5	5/21/2017 1:15	28.04	75.0	6.05	8.9	SR5	5/21/2017 7:15	27.96	71.1	5.73	6.0	SR5	5/21/2017 13:15	27.89	69.7	5.62	8.3	SR5	5/21/2017 19:15	27.93	67.1	5.41	7.3
SR5	5/21/2017 1:20	28.03	73.4	5.92	8.9	SR5	5/21/2017 7:20	27.97	71.2	5.74	5.9	SR5	5/21/2017 13:20	27.93	67.0	5.40	7.7	SR5	5/21/2017 19:20	27.98	65.7	5.30	7.3
SR5	5/21/2017 1:25	28.03	73.3	5.91	7.7	SR5	5/21/2017 7:25	27.99	70.9	5.72	7.1	SR5	5/21/2017 13:25	27.94	67.5	5.44	9.0	SR5	5/21/2017 19:25	27.95	66.5	5.36	7.6
SR5	5/21/2017 1:30	28.02	74.2	5.98	7.7	SR5	5/21/2017 7:30	28.00	73.4	5.92	5.4	SR5	5/21/2017 13:30	27.90	70.7	5.70	6.8	SR5	5/21/2017 19:30	27.94	66.5	5.36	6.6
SR5	5/21/2017 1:35	28.04	74.4	6.00	8.8	SR5	5/21/2017 7:35	27.98	70.3	5.67	7.5	SR5	5/21/2017 13:35	27.89	68.0	5.48	8.2	SR5	5/21/2017 19:35	27.95	66.2	5.34	5.6
SR5	5/21/2017 1:40	28.03	74.9	6.04	8.7	SR5	5/21/2017 7:40	27.98	71.2	5.74	7.1	SR5	5/21/2017 13:40	27.89	70.6	5.69	9.2	SR5	5/21/2017 19:40	27.94	66.2	5.34	7.0
SR5	5/21/2017 1:45	28.03	74.0	5.97	9.2	SR5	5/21/2017 7:45	27.96	71.2	5.74	5.4	SR5	5/21/2017 13:45	27.89	67.8	5.47	8.1	SR5	5/21/2017 19:45	27.98	67.2	5.42	7.6
SR5	5/21/2017 1:50	28.01	73.2	5.90	9.1	SR5	5/21/2017 7:50	27.98	73.2	5.90	6.2	SR5	5/21/2017 13:50	27.89	67.2	5.42	8.4	SR5	5/21/2017 19:50	27.94	66.6	5.37	6.2
SR5	5/21/2017 1:55	28.01	73.3	5.91	7.9	SR5	5/21/2017 7:55	27.95	72.0	5.81	7.6	SR5	5/21/2017 13:55	27.92	68.8	5.55	6.4	SR5	5/21/2017 19:55	27.93	66.7	5.38	7.0
SR5	5/21/2017 2:00	28.01	74.6	6.02	<b>18.5</b>	SR5	5/21/2017 8:00	27.99	70.4	5.68	7.5	SR5	5/21/2017 14:00	27.92	69.8	5.63	6.6	SR5	5/21/2017 20:00	27.95	66.6	5.37	8.0
SR5	5/21/2017 2:05	28.01	74.5	6.01	8.7	SR5	5/21/2017 8:05	27.98	71.9	5.80	7.5	SR5	5/21/2017 14:05	27.93	69.2	5.58	8.0	SR5	5/21/2017 20:05	27.92	67.1	5.41	5.4
SR5	5/21/2017 2:10	28.04	73.2	5.90	8.0	SR5	5/21/2017 8:10	27.97	72.5	5.85	7.6	SR5	5/21/2017 14:10	27.90	67.1	5.41	8.2	SR5	5/21/2017 20:10	27.93	67.1	5.41	7.3
SR5	5/21/2017 2:15	28.02	73.4	5.92	9.3	SR5	5/21/2017 8:15	27.95	72.3	5.83	6.0	SR5	5/21/2017 14:15	27.93	67.7	5.46	6.9	SR5	5/21/2017 20:15	27.97	66.3	5.35	5.4
SR5	5/21/2017 2:20	27.99	73.0	5.89	8.9	SR5	5/21/2017 8:20	27.95	70.4	5.68	7.9	SR5	5/21/2017 14:20	27.89	69.8	5.63	6.5	SR5	5/21/2017 20:20	27.97	66.8	5.39	7.3
SR5	5/21/2017 2:25	28.04	73.7	5.94	7.4	SR5	5/21/2017 8:25	27.99	70.7	5.70	6.5	SR5	5/21/2017 14:25	27.94	66.8	5.39	8.0	SR5	5/21/2017 20:25	27.95	66.1	5.33	7.7
SR5	5/21/2017 2:30	28.04	73.5	5.93	7.4	SR5	5/21/2017 8:30	27.97	72.0	5.81	7.5	SR5	5/21/2017 14:30	27.90	70.3	5.67	7.5	SR5	5/21/2017 20:30	27.93	66.6	5.37	6.6
SR5	5/21/2017 2:35	28.02	73.4	5.92	6.7	SR5	5/21/2017 8:35	27.94	72.0	5.81	6.4	SR5	5/21/2017 14:35	27.94	69.8	5.63	7.9	SR5	5/21/2017 20:35	27.94	66.0	5.32	7.9
SR5	5/21/2017 2:40	28.00	73.0	5.89	8.4	SR5	5/21/2017 8:40	27.94	71.4	5.76	6.4	SR5	5/21/2017 14:40	27.91	69.1	5.57	6.4	SR5	5/21/2017 20:40	27.93	66.6	5.37	8.8
SR5	5/21/2017 2:45	28.01	73.4	5.92	6.8	SR5	5/21/2017 8:45	27.97	73.3	5.91	5.4	SR5	5/21/2017 14:45	27.91	67.6	5.45	7.7	SR5	5/21/2017 20:45	27.92	66.5	5.36	8.9
SR5	5/21/2017 2:50	28.00	73.0	5.89	7.7	SR5	5/21/2017 8:50	27.96	70.7	5.70	5.9	SR5	5/21/2017 14:50	27.93	69.9	5.64	9.1	SR5	5/21/2017 20:50	27.93	66.3	5.35	6.2
SR5	5/21/2017 2:55	28.04	74.4	6.00	8.1	SR5	5/21/2017 8:55	27.93	71.2	5.74	5.5	SR5	5/21/2017 14:55	27.94	67.0	5.40	6.5	SR5	5/21/2017 20:55	27.93	66.3	5.35	5.4
SR5	5/21/2017 3:00	28.02	73.4	5.92	8.4	SR5	5/21/2017 9:00	27.93	73.2	5.90	7.9	SR5	5/21/2017 15:00	27.93	67.5	5.44	7.4	SR5	5/21/2017 21:00	27.93	67.1	5.41	7.9
SR5	5/21/2017 3:05	28.03	75.0	6.05	9.6	SR5	5/21/2017 9:05	27.95	73.2	5.90	6.1	SR5	5/21/2017 15:05	27.92	67.5	5.44	6.9	SR5	5/21/2017 21:05	27.93	66.2	5.34	7.7
SR5	5/21/2017 3:10	28.04	73.4	5.92	7.2	SR5	5/21/2017 9:10	27.93	73.3	5.91	7.3	SR5	5/21/2017 15:10	27.92	68.0	5.48	7.8	SR5	5/21/2017 21:10	27.92	67.2	5.42	7.6
SR5	5/21/2017 3:15	28.01	74.2	5.98	6.7	SR5	5/21/2017 9:15	27.95	73.2	5.90	5.5	SR5	5/21/2017 15:15	27.93	69.3	5.59	8.4	SR5	5/21/2017 21:15	27.94	66.8	5.39	8.7
SR5	5/21/2017 3:20	28.01	73.5	5.93	8.2	SR5	5/21/2017 9:20	27.95	73.0	5.89	5.8	SR5	5/21/2017 15:20	27.90	67.1	5.41	8.9	SR5	5/21/2017 21:20	27.94	65.7	5.30	5.4
SR5	5/21/2017 3:25	28.01	73.5	5.93	8.1	SR5	5/21/2017 9:25	27.92	71.9	5.80	7.2	SR5	5/21/2017 15:25	27.91	66.8	5.39	6.5	SR5	5/21/2017 21:25	27.94	66.6	5.37	7.3
SR5	5/21/2017 3:30	28.00	73.0	5.89	7.8	SR5	5/21/2017 9:30	27.96	71.8	5.79	7.1	SR5	5/21/2017 15:30	27.95	66.6	5.37	7.7	SR5	5/21/2017 21:30	27.96	66.6	5.37	9.1
SR5	5/21/2017 3:35	27.99	73.2	5.90	8.4	SR5	5/21/2017 9:35	27.96	71.4	5.76	6.9	SR5	5/21/2017 15:35	27.93	66.6	5.37	7.9	SR5	5/21/2017 21:35	27.96	66.5	5.36	7.0
SR5	5/21/2017 3:40	28.02	73.3	5.91	7.1	SR5	5/21/2017 9:40	27.96	73.4	5.92	6.8	SR5	5/21/2017 15:40	27.95	66.5	5.36	5.7	SR5	5/21/2017 21:40	27.92	66.8	5.39	6.9
SR5	5/21/2017 3:45	27.98	72.9	5.88	7.4	SR5	5/21/2017 9:45	27.93	73.3	5.91	6.2	SR5	5/21/2017 15:45	27.95	66.7	5.38	9.0	SR5	5/21/2017 21:45	27.94	67.2	5.42	6.6
SR5	5/21/2017 3:50	28.00	73.4	5.92	6.3	SR5	5/21/2017 9:50	27.97	70.6	5.69	6.5	SR5	5/21/2017 15:50	27.94	67.1	5.41	8.2	SR5	5/21/2017 21:50	27.93	67.1	5.41	7.5
SR5	5/21/2017 3:55	27.99	71.1	5.73	6.5	SR5	5/21/2017 9:55																

## 24-hr Water Quality Monitoring

Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)
SR12	5/21/2017 0:01	27.79	69.3	5.59	5.5	SR12	5/21/2017 6:01	27.84	67.0	5.40	7.1	SR12	5/21/2017 12:01	27.78	68.0	5.48	6.4	SR12	5/21/2017 18:01	27.78	70.3	5.67	6.7
SR12	5/21/2017 0:06	27.83	67.3	5.43	3.5	SR12	5/21/2017 6:06	27.84	69.6	5.61	4.3	SR12	5/21/2017 12:06	27.77	67.0	5.40	2.9	SR12	5/21/2017 18:06	27.78	70.7	5.70	6.5
SR12	5/21/2017 0:11	27.84	70.3	5.67	6.4	SR12	5/21/2017 6:11	27.84	67.6	5.45	5.8	SR12	5/21/2017 12:11	27.82	67.6	5.45	3.0	SR12	5/21/2017 18:11	27.79	70.4	5.68	5.3
SR12	5/21/2017 0:16	27.84	69.9	5.64	4.2	SR12	5/21/2017 6:16	27.85	70.1	5.65	2.6	SR12	5/21/2017 12:16	27.78	67.1	5.41	4.2	SR12	5/21/2017 18:16	27.78	70.1	5.65	5.1
SR12	5/21/2017 0:21	27.82	70.7	5.70	4.3	SR12	5/21/2017 6:21	27.86	67.6	5.45	3.2	SR12	5/21/2017 12:21	27.81	66.8	5.39	4.3	SR12	5/21/2017 18:21	27.78	70.3	5.67	4.6
SR12	5/21/2017 0:26	27.84	69.6	5.61	5.2	SR12	5/21/2017 6:26	27.85	68.6	5.53	3.3	SR12	5/21/2017 12:26	27.81	66.6	5.37	4.5	SR12	5/21/2017 18:26	27.82	68.7	5.54	4.9
SR12	5/21/2017 0:31	27.82	68.7	5.54	7.2	SR12	5/21/2017 6:31	27.81	68.2	5.50	4.5	SR12	5/21/2017 12:31	27.81	67.6	5.45	7.2	SR12	5/21/2017 18:31	27.81	70.2	5.66	3.3
SR12	5/21/2017 0:36	27.82	70.1	5.65	3.6	SR12	5/21/2017 6:36	27.86	67.5	5.44	6.0	SR12	5/21/2017 12:36	27.77	68.2	5.50	5.3	SR12	5/21/2017 18:36	27.80	68.9	5.56	2.5
SR12	5/21/2017 0:41	27.84	68.6	5.53	5.2	SR12	5/21/2017 6:41	27.83	69.1	5.57	3.8	SR12	5/21/2017 12:41	27.77	67.2	5.42	4.0	SR12	5/21/2017 18:41	27.78	68.8	5.55	5.4
SR12	5/21/2017 0:46	27.85	69.1	5.57	2.7	SR12	5/21/2017 6:46	27.84	70.2	5.66	4.9	SR12	5/21/2017 12:46	27.82	68.4	5.52	5.5	SR12	5/21/2017 18:46	27.82	67.3	5.43	3.7
SR12	5/21/2017 0:51	27.85	68.4	5.52	3.6	SR12	5/21/2017 6:51	27.86	67.7	5.46	5.6	SR12	5/21/2017 12:51	27.82	67.7	5.46	2.6	SR12	5/21/2017 18:51	27.82	67.3	5.43	4.5
SR12	5/21/2017 0:56	27.80	66.5	5.36	6.8	SR12	5/21/2017 6:56	27.85	69.1	5.57	6.5	SR12	5/21/2017 12:56	27.77	70.3	5.67	4.5	SR12	5/21/2017 18:56	27.79	66.6	5.37	1.8
SR12	5/21/2017 1:01	27.80	69.8	5.63	4.9	SR12	5/21/2017 7:01	27.82	67.3	5.43	2.9	SR12	5/21/2017 13:01	27.77	68.7	5.54	3.3	SR12	5/21/2017 19:01	27.81	67.3	5.43	3.9
SR12	5/21/2017 1:06	27.83	70.7	5.70	3.5	SR12	5/21/2017 7:06	27.82	68.3	5.51	3.5	SR12	5/21/2017 13:06	27.81	70.1	5.65	5.7	SR12	5/21/2017 19:06	27.79	66.7	5.38	3.1
SR12	5/21/2017 1:11	27.81	68.6	5.53	2.7	SR12	5/21/2017 7:11	27.85	69.1	5.57	3.4	SR12	5/21/2017 13:11	27.82	66.8	5.39	2.8	SR12	5/21/2017 19:11	27.83	66.6	5.37	4.7
SR12	5/21/2017 1:16	27.80	70.1	5.65	3.9	SR12	5/21/2017 7:16	27.85	67.8	5.47	6.5	SR12	5/21/2017 13:16	27.79	68.0	5.48	3.9	SR12	5/21/2017 19:16	27.82	67.2	5.42	4.8
SR12	5/21/2017 1:21	27.83	67.6	5.45	3.2	SR12	5/21/2017 7:21	27.86	69.1	5.57	3.3	SR12	5/21/2017 13:21	27.81	67.0	5.40	7.4	SR12	5/21/2017 19:21	27.82	67.5	5.44	2.2
SR12	5/21/2017 1:26	27.83	70.6	5.69	4.9	SR12	5/21/2017 7:26	27.84	68.0	5.48	2.5	SR12	5/21/2017 13:26	27.82	67.7	5.46	3.9	SR12	5/21/2017 19:26	27.82	66.8	5.39	2.4
SR12	5/21/2017 1:31	27.79	68.4	5.52	4.8	SR12	5/21/2017 7:31	27.82	69.6	5.61	5.5	SR12	5/21/2017 13:31	27.79	66.3	5.35	5.3	SR12	5/21/2017 19:31	27.81	66.7	5.38	3.6
SR12	5/21/2017 1:36	27.81	66.6	5.37	3.7	SR12	5/21/2017 7:36	27.81	67.1	5.41	4.0	SR12	5/21/2017 13:36	27.79	69.1	5.57	3.0	SR12	5/21/2017 19:36	27.78	67.7	5.46	2.7
SR12	5/21/2017 1:41	27.78	66.8	5.39	4.4	SR12	5/21/2017 7:41	27.83	66.8	5.39	6.4	SR12	5/21/2017 13:41	27.83	68.2	5.50	7.0	SR12	5/21/2017 19:41	27.79	67.3	5.43	2.8
SR12	5/21/2017 1:46	27.81	69.6	5.61	7.1	SR12	5/21/2017 7:46	27.84	70.1	5.65	5.4	SR12	5/21/2017 13:46	27.81	70.7	5.70	5.4	SR12	5/21/2017 19:46	27.82	66.6	5.37	5.5
SR12	5/21/2017 1:51	27.80	68.2	5.50	3.3	SR12	5/21/2017 7:51	27.81	68.8	5.55	2.6	SR12	5/21/2017 13:51	27.79	67.0	5.40	5.8	SR12	5/21/2017 19:51	27.80	66.6	5.37	3.0
SR12	5/21/2017 1:56	27.82	68.1	5.49	6.9	SR12	5/21/2017 7:56	27.82	70.2	5.66	5.3	SR12	5/21/2017 13:56	27.80	70.2	5.66	5.1	SR12	5/21/2017 19:56	27.83	67.1	5.41	1.3
SR12	5/21/2017 2:01	27.78	68.8	5.55	7.4	SR12	5/21/2017 8:01	27.85	68.2	5.50	2.9	SR12	5/21/2017 14:01	27.78	69.7	5.62	4.2	SR12	5/21/2017 20:01	27.80	67.6	5.45	1.6
SR12	5/21/2017 2:06	27.83	69.8	5.63	3.0	SR12	5/21/2017 8:06	27.80	70.2	5.66	5.2	SR12	5/21/2017 14:06	27.81	69.1	5.57	5.7	SR12	5/21/2017 20:06	27.81	67.7	5.46	2.9
SR12	5/21/2017 2:11	27.81	69.3	5.59	5.5	SR12	5/21/2017 8:11	27.80	70.4	5.68	2.7	SR12	5/21/2017 14:11	27.78	68.4	5.52	6.1	SR12	5/21/2017 20:11	27.83	66.8	5.39	4.2
SR12	5/21/2017 2:16	27.80	70.3	5.67	4.8	SR12	5/21/2017 8:16	27.83	69.2	5.58	6.3	SR12	5/21/2017 14:16	27.77	68.9	5.56	5.8	SR12	5/21/2017 20:16	27.83	66.8	5.39	1.3
SR12	5/21/2017 2:21	27.78	68.2	5.50	2.9	SR12	5/21/2017 8:21	27.85	68.7	5.54	7.2	SR12	5/21/2017 14:21	27.78	70.2	5.66	2.3	SR12	5/21/2017 20:21	27.81	66.7	5.38	3.3
SR12	5/21/2017 2:26	27.82	70.3	5.67	4.6	SR12	5/21/2017 8:26	27.84	69.6	5.61	5.9	SR12	5/21/2017 14:26	27.79	70.1	5.65	2.9	SR12	5/21/2017 20:26	27.81	67.2	5.42	5.7
SR12	5/21/2017 2:31	27.80	70.7	5.70	3.6	SR12	5/21/2017 8:31	27.82	67.6	5.45	3.1	SR12	5/21/2017 14:31	27.81	68.2	5.50	5.7	SR12	5/21/2017 20:31	27.83	66.6	5.37	2.8
SR12	5/21/2017 2:36	27.81	68.3	5.51	2.6	SR12	5/21/2017 8:36	27.80	70.2	5.66	7.0	SR12	5/21/2017 14:36	27.81	69.4	5.60	3.1	SR12	5/21/2017 20:36	27.83	67.8	5.47	4.2
SR12	5/21/2017 2:41	27.78	69.9	5.64	6.7	SR12	5/21/2017 8:41	27.79	68.3	5.51	6.6	SR12	5/21/2017 14:41	27.80	69.2	5.58	4.8	SR12	5/21/2017 20:41	27.80	67.8	5.47	5.3
SR12	5/21/2017 2:46	27.78	66.3	5.35	4.9	SR12	5/21/2017 8:46	27.79	67.0	5.40	3.4	SR12	5/21/2017 14:46	27.78	67.0	5.40	3.4	SR12	5/21/2017 20:46	27.84	67.2	5.42	2.7
SR12	5/21/2017 2:51	27.80	67.7	5.46	2.4	SR12	5/21/2017 8:51	27.82	66.7	5.38	4.6	SR12	5/21/2017 14:51	27.82	70.2	5.66	7.0	SR12	5/21/2017 20:51	27.80	67.0	5.40	1.8
SR12	5/21/2017 2:56	27.79	67.1	5.41	3.5	SR12	5/21/2017 8:56	27.79	67.0	5.40	5.1	SR12	5/21/2017 14:56	27.82	70.2	5.66	5.4	SR12	5/21/2017 20:56	27.82	67.1	5.41	1.7
SR12	5/21/2017 3:01	27.78	67.0	5.40	3.9	SR12	5/21/2017 9:01	27.81	66.8	5.39	2.3	SR12	5/21/2017 15:01	27.79	68.9	5.56	3.3	SR12	5/21/2017 21:01	27.83	67.2	5.42	2.5
SR12	5/21/2017 3:06	27.81	70.4	5.68	5.5	SR12	5/21/2017 9:06	27.78	69.4	5.60	5.3	SR12	5/21/2017 15:06	27.78	70.6	5.69	4.1	SR12	5/21/2017 21:06	27.82	67.2	5.42	3.2
SR12	5/21/2017 3:11	27.80	69.2	5.58	6.4	SR12	5/21/2017 9:11	27.81	70.6	5.69	4.7	SR12	5/21/2017 15:11	27.78	70.7	5.70	4.9	SR12	5/21/2017 21:11	27.79	67.2	5.42	3.5
SR12	5/21/2017 3:16	27.79	67.6	5.45	6.8	SR12	5/21/2017 9:16	27.82	70.1	5.65	5.1	SR12	5/21/2017 15:16	27.81	70.2	5.66	5.0	SR12	5/21/2017 21:16	27.81	67.6	5.45	5.0
SR12	5/21/2017 3:21	27.82	70.4	5.68	4.2	SR12	5/21/2017 9:21	27.82	67.1	5.41	3.6	SR12	5/21/2017 15:21	27.80	67.1	5.41	6.7	SR12	5/21/2017 21:21	27.83	67.3	5.43	2.2
SR12	5/21/2017 3:26	27.82	69.8	5.63	5.1	SR12	5/21/2017 9:26	27.78	69.8	5.63	3.8	SR12	5/21/2017 15:26	27.82	68.2	5.50	6.3	SR12	5/21/2017 21:26	27.80	66.7	5.38	3.5
SR12	5/21/2017 3:31	27.77	70.2	5.66	2.5	SR12	5/21/2017 9:31	27.78	69.6	5.61	4.7	SR12	5/21/2017 15:31	27.81	66.3	5.35	5.5	SR12	5/21/2017 21:31	27.83	67.3	5.43	3.4
SR12	5/21/2017 3:36	27.81	67.5	5.44	6.2	SR12	5/21/2017 9:36	27.81	70.1	5.65	3.5	SR12	5/21/2017 15:36	27.81	69.4	5.60	3.9	SR12	5/21/2017 21:36	27.80	67.7	5.46	2.1
SR12	5/21/2017 3:41	27.80	66.7	5.38	3.6	SR12	5/21/2017 9:41	27.81	68.4	5.52	3.0	SR12	5/21/2017 15:41	27.81	70.6	5.69	7.2	SR12	5/21/2017 21:41	27.79	67.2	5.42	2.7
SR12	5/21/2017 3:46	27.78	68.6	5.53	6.0	SR12	5/21/2017 9:46	27.78	67.5	5.44	3.8	SR12	5/21/2017 15:46	27.80	70.4	5.68	5.2	SR12	5/21/2017 21:46	27.82	67.0	5.40	5.0
SR12	5/21/2017 3:51	27.77	69.7	5.62	2.7	SR12	5/21/2017 9:51	27.77	66.8	5.39	6.9	SR12	5/21/2017 15:51	27.81	70.4</								



24-hr Water Quality Monitoring

Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)
SR13	5/21/2017 0:00	25.20	65.0	5.24	4.0	SR13	5/21/2017 6:00	24.70	65.6	5.29	6.0	SR13	5/21/2017 12:00	25.34	65.3	5.27	7.8	SR13	5/21/2017 18:00	26.08	68.4	5.52	3.3
SR13	5/21/2017 0:05	25.19	68.3	5.51	7.9	SR13	5/21/2017 6:05	24.70	67.1	5.41	3.5	SR13	5/21/2017 12:05	25.35	66.6	5.29	7.0	SR13	5/21/2017 18:05	26.07	66.3	5.35	3.6
SR13	5/21/2017 0:10	25.16	66.7	5.38	3.6	SR13	5/21/2017 6:10	24.67	66.5	5.36	4.2	SR13	5/21/2017 12:10	25.36	68.0	5.48	6.9	SR13	5/21/2017 18:10	26.04	63.5	5.12	5.0
SR13	5/21/2017 0:15	25.16	66.8	5.39	3.6	SR13	5/21/2017 6:15	24.66	62.6	5.05	3.1	SR13	5/21/2017 12:15	25.40	67.0	5.40	5.6	SR13	5/21/2017 18:15	26.04	64.7	5.22	6.2
SR13	5/21/2017 0:20	25.15	64.5	5.20	4.2	SR13	5/21/2017 6:20	24.64	65.3	5.27	7.2	SR13	5/21/2017 12:20	25.40	66.6	5.29	6.6	SR13	5/21/2017 18:20	26.02	66.1	5.33	6.0
SR13	5/21/2017 0:25	25.16	63.0	5.08	2.9	SR13	5/21/2017 6:25	24.68	67.0	5.40	5.7	SR13	5/21/2017 12:25	25.42	66.5	5.36	4.5	SR13	5/21/2017 18:25	26.04	67.7	5.46	4.2
SR13	5/21/2017 0:30	25.17	66.3	5.35	7.5	SR13	5/21/2017 6:30	24.67	66.8	5.39	4.9	SR13	5/21/2017 12:30	25.44	63.1	5.09	7.6	SR13	5/21/2017 18:30	26.00	67.3	5.43	7.7
SR13	5/21/2017 0:35	25.13	67.0	5.40	5.6	SR13	5/21/2017 6:35	24.67	67.5	5.44	4.1	SR13	5/21/2017 12:35	25.46	66.5	5.36	5.8	SR13	5/21/2017 18:35	26.00	64.5	5.20	7.1
SR13	5/21/2017 0:40	25.11	67.2	5.42	7.8	SR13	5/21/2017 6:40	24.63	64.2	5.18	5.2	SR13	5/21/2017 12:40	25.46	67.3	5.43	7.1	SR13	5/21/2017 18:40	26.02	67.7	5.46	5.1
SR13	5/21/2017 0:45	25.11	67.3	5.43	7.1	SR13	5/21/2017 6:45	24.62	65.2	5.26	6.5	SR13	5/21/2017 12:45	25.52	66.5	5.36	7.9	SR13	5/21/2017 18:45	25.97	65.3	5.27	3.5
SR13	5/21/2017 0:50	25.11	64.0	5.16	7.1	SR13	5/21/2017 6:50	24.63	66.1	5.33	2.9	SR13	5/21/2017 12:50	25.52	67.8	5.47	6.2	SR13	5/21/2017 18:50	25.99	64.5	5.20	3.5
SR13	5/21/2017 0:55	25.13	67.0	5.40	3.2	SR13	5/21/2017 6:55	24.62	64.2	5.18	7.0	SR13	5/21/2017 12:55	25.56	66.6	5.37	4.0	SR13	5/21/2017 18:55	25.96	64.6	5.21	4.8
SR13	5/21/2017 1:00	25.12	65.3	5.27	6.0	SR13	5/21/2017 7:00	24.62	63.5	5.12	3.0	SR13	5/21/2017 13:00	25.55	65.8	5.31	5.1	SR13	5/21/2017 19:00	25.95	66.3	5.35	5.7
SR13	5/21/2017 1:05	25.09	67.5	5.44	7.9	SR13	5/21/2017 7:05	24.63	66.6	5.37	3.0	SR13	5/21/2017 13:05	25.55	64.4	5.19	4.0	SR13	5/21/2017 19:05	25.93	64.7	5.22	7.3
SR13	5/21/2017 1:10	25.10	64.1	5.17	3.2	SR13	5/21/2017 7:10	24.61	67.1	5.41	3.7	SR13	5/21/2017 13:10	25.61	63.4	5.11	5.0	SR13	5/21/2017 19:10	25.95	68.0	5.48	3.1
SR13	5/21/2017 1:15	25.10	65.8	5.31	5.8	SR13	5/21/2017 7:15	24.60	66.3	5.35	4.0	SR13	5/21/2017 13:15	25.58	62.7	5.06	5.3	SR13	5/21/2017 19:15	25.96	64.1	5.17	7.7
SR13	5/21/2017 1:20	25.06	66.8	5.39	3.3	SR13	5/21/2017 7:20	24.62	67.7	5.46	7.0	SR13	5/21/2017 13:20	25.61	66.7	5.38	3.9	SR13	5/21/2017 19:20	25.92	68.2	5.50	6.6
SR13	5/21/2017 1:25	25.07	67.1	5.41	6.6	SR13	5/21/2017 7:25	24.59	64.6	5.21	4.5	SR13	5/21/2017 13:25	25.63	68.0	5.48	4.7	SR13	5/21/2017 19:25	25.92	66.0	5.32	7.9
SR13	5/21/2017 1:30	25.05	64.1	5.17	5.9	SR13	5/21/2017 7:30	24.62	62.9	5.07	7.2	SR13	5/21/2017 13:30	25.67	65.0	5.24	3.4	SR13	5/21/2017 19:30	25.90	65.6	5.29	7.1
SR13	5/21/2017 1:35	25.09	65.1	5.25	7.4	SR13	5/21/2017 7:35	24.62	62.6	5.05	5.6	SR13	5/21/2017 13:35	25.68	67.7	5.46	6.3	SR13	5/21/2017 19:35	25.92	64.0	5.16	3.5
SR13	5/21/2017 1:40	25.05	64.0	5.16	4.9	SR13	5/21/2017 7:40	24.59	64.7	5.22	3.3	SR13	5/21/2017 13:40	25.65	63.6	5.13	3.5	SR13	5/21/2017 19:40	25.90	67.8	5.47	2.9
SR13	5/21/2017 1:45	25.06	68.1	5.49	6.8	SR13	5/21/2017 7:45	24.61	68.2	5.50	3.5	SR13	5/21/2017 13:45	25.69	62.9	5.07	3.8	SR13	5/21/2017 19:45	25.90	66.6	5.37	6.2
SR13	5/21/2017 1:50	25.04	63.0	5.08	4.5	SR13	5/21/2017 7:50	24.59	65.1	5.25	7.1	SR13	5/21/2017 13:50	25.73	66.3	5.35	2.9	SR13	5/21/2017 19:50	25.89	64.2	5.18	3.8
SR13	5/21/2017 1:55	25.03	64.0	5.16	3.1	SR13	5/21/2017 7:55	24.63	64.9	5.23	7.3	SR13	5/21/2017 13:55	25.70	65.5	5.28	6.9	SR13	5/21/2017 19:55	25.85	62.6	5.05	7.3
SR13	5/21/2017 2:00	25.02	67.3	5.43	5.7	SR13	5/21/2017 8:00	24.65	65.1	5.25	6.3	SR13	5/21/2017 14:00	25.71	65.1	5.25	2.9	SR13	5/21/2017 20:00	25.84	66.5	5.36	3.8
SR13	5/21/2017 2:05	25.05	68.1	5.49	3.1	SR13	5/21/2017 8:05	24.60	66.6	5.37	5.1	SR13	5/21/2017 14:05	25.78	63.2	5.10	7.0	SR13	5/21/2017 20:05	25.86	68.2	5.50	6.9
SR13	5/21/2017 2:10	25.05	63.0	5.08	5.6	SR13	5/21/2017 8:10	24.62	65.8	5.31	5.1	SR13	5/21/2017 14:10	25.75	67.2	5.42	4.8	SR13	5/21/2017 20:10	25.86	63.5	5.12	4.8
SR13	5/21/2017 2:15	25.05	65.2	5.26	5.2	SR13	5/21/2017 8:15	24.66	66.5	5.36	7.3	SR13	5/21/2017 14:15	25.77	66.7	5.38	3.4	SR13	5/21/2017 20:15	25.83	64.4	5.19	3.9
SR13	5/21/2017 2:20	25.04	66.2	5.34	3.8	SR13	5/21/2017 8:20	24.61	63.0	5.08	3.3	SR13	5/21/2017 14:20	25.80	65.1	5.25	3.6	SR13	5/21/2017 20:20	25.83	65.2	5.26	7.4
SR13	5/21/2017 2:25	25.04	62.9	5.07	6.7	SR13	5/21/2017 8:25	24.67	63.7	5.14	3.9	SR13	5/21/2017 14:25	25.85	63.6	5.13	6.4	SR13	5/21/2017 20:25	25.84	63.5	5.12	3.6
SR13	5/21/2017 2:30	25.02	62.9	5.07	5.7	SR13	5/21/2017 8:30	24.62	65.7	5.30	6.6	SR13	5/21/2017 14:30	25.85	64.0	5.16	7.2	SR13	5/21/2017 20:30	25.82	67.2	5.42	7.3
SR13	5/21/2017 2:35	25.03	68.2	5.50	7.2	SR13	5/21/2017 8:35	24.67	67.5	5.44	5.3	SR13	5/21/2017 14:35	25.83	64.9	5.23	4.9	SR13	5/21/2017 20:35	25.77	63.7	5.14	5.1
SR13	5/21/2017 2:40	25.00	65.5	5.28	7.7	SR13	5/21/2017 8:40	24.69	64.2	5.18	3.7	SR13	5/21/2017 14:40	25.89	65.3	5.27	5.5	SR13	5/21/2017 20:40	25.77	62.6	5.05	3.1
SR13	5/21/2017 2:45	25.01	66.5	5.36	7.2	SR13	5/21/2017 8:45	24.66	68.1	5.49	5.9	SR13	5/21/2017 14:45	25.90	66.2	5.34	3.2	SR13	5/21/2017 20:45	25.79	66.7	5.38	4.4
SR13	5/21/2017 2:50	24.99	65.5	5.28	3.8	SR13	5/21/2017 8:50	24.70	67.1	5.41	3.1	SR13	5/21/2017 14:50	25.89	66.6	5.37	3.9	SR13	5/21/2017 20:50	25.77	68.4	5.52	6.9
SR13	5/21/2017 2:55	25.01	67.0	5.40	5.1	SR13	5/21/2017 8:55	24.69	66.3	5.35	7.5	SR13	5/21/2017 14:55	25.91	66.7	5.38	6.2	SR13	5/21/2017 20:55	25.75	63.4	5.11	2.9
SR13	5/21/2017 3:00	24.97	64.2	5.18	5.0	SR13	5/21/2017 9:00	24.67	65.8	5.31	7.2	SR13	5/21/2017 15:00	25.91	65.6	5.29	6.0	SR13	5/21/2017 21:00	25.77	65.5	5.28	7.4
SR13	5/21/2017 3:05	24.96	62.7	5.06	4.6	SR13	5/21/2017 9:05	24.70	67.5	5.44	6.7	SR13	5/21/2017 15:05	25.97	64.5	5.20	6.9	SR13	5/21/2017 21:05	25.75	67.7	5.46	7.3
SR13	5/21/2017 3:10	25.00	65.7	5.30	6.1	SR13	5/21/2017 9:10	24.73	65.7	5.30	3.7	SR13	5/21/2017 15:10	25.96	68.4	5.52	4.2	SR13	5/21/2017 21:10	25.70	66.7	5.38	4.4
SR13	5/21/2017 3:15	24.96	67.7	5.46	3.6	SR13	5/21/2017 9:15	24.70	63.7	5.14	5.6	SR13	5/21/2017 15:15	25.98	64.2	5.18	6.7	SR13	5/21/2017 21:15	25.68	68.4	5.52	3.1
SR13	5/21/2017 3:20	24.94	64.0	5.16	6.8	SR13	5/21/2017 9:20	24.75	67.6	5.45	6.1	SR13	5/21/2017 15:20	25.98	63.2	5.10	5.0	SR13	5/21/2017 21:20	25.70	65.8	5.31	7.4
SR13	5/21/2017 3:25	24.94	66.1	5.33	4.5	SR13	5/21/2017 9:25	24.76	64.9	5.23	3.2	SR13	5/21/2017 15:25	26.00	63.0	5.08	4.9	SR13	5/21/2017 21:25	25.68	64.6	5.21	6.8
SR13	5/21/2017 3:30	24.96	63.1	5.09	4.0	SR13	5/21/2017 9:30	24.73	68.3	5.51	6.0	SR13	5/21/2017 15:30	26.04	62.6	5.05	4.8	SR13	5/21/2017 21:30	25.69	66.7	5.38	3.7
SR13	5/21/2017 3:35	24.94	66.0	5.32	5.1	SR13	5/21/2017 9:35	24.75	66.3	5.35	4.0	SR13	5/21/2017 15:35	26.05	67.1	5.41	5.5	SR13	5/21/2017 21:35	25.64	62.7	5.06	7.0
SR13	5/21/2017 3:40	24.94	68.3	5.51	3.7	SR13	5/21/2017 9:40	24.74	67.8	5.47	4.6	SR13	5/21/2017 15:40	26.09	66.3	5.35	4.0	SR13	5/21/2017 21:40	25.65	67.3	5.43	7.5
SR13	5/21/2017 3:45	24.94	64.6	5.21	7.1	SR13	5/21/2017 9:45	24.80	66.0	5.32	5.7	SR13	5/21/2017 15:45	26.08	68.4	5.52	6.2	SR13	5/21/2017 21:45	25.65	63.9	5.15	4.5
SR13	5/21/2017 3:50	24.93	65.0	5.24	6.3	SR13	5/21/2017 9:50	24.82	62.9	5.07	6.6	SR13	5/21/2017 15:50	26.08	64.9	5.23	5.6						

24-hr Water Quality Monitoring

Station	Timestamp	NH <sub>3</sub> (mg/L)				Station	Timestamp	NH <sub>3</sub> (mg/L)			
SR4	5/21/2017 0:17	0.13				SR12	5/21/2017 0:17	0.15			
SR4	5/21/2017 0:37	0.13				SR12	5/21/2017 0:37	0.15			
SR4	5/21/2017 0:57	0.13				SR12	5/21/2017 0:57	0.16			
SR4	5/21/2017 1:17	0.13				SR12	5/21/2017 1:17	0.15			
SR4	5/21/2017 1:37	0.13				SR12	5/21/2017 1:37	0.18			
SR4	5/21/2017 1:57	0.14				SR12	5/21/2017 1:57	0.14			
SR4	5/21/2017 2:17	0.13				SR12	5/21/2017 2:17	0.15			
SR4	5/21/2017 2:37	0.14				SR12	5/21/2017 2:37	0.18			
SR4	5/21/2017 2:57	0.12				SR12	5/21/2017 2:57	0.15			
SR4	5/21/2017 3:17	0.12				SR12	5/21/2017 3:17	0.14			
SR4	5/21/2017 3:37	0.12				SR12	5/21/2017 3:37	0.16			
SR4	5/21/2017 3:57	0.14				SR12	5/21/2017 3:57	0.14			
SR4	5/21/2017 4:17	0.13				SR12	5/21/2017 4:17	0.16			
SR4	5/21/2017 4:37	0.14				SR12	5/21/2017 4:37	0.13			
SR4	5/21/2017 4:57	0.12				SR12	5/21/2017 4:57	0.16			
SR4	5/21/2017 5:17	0.12				SR12	5/21/2017 5:17	0.14			
SR4	5/21/2017 5:37	0.14				SR12	5/21/2017 5:37	0.15			
SR4	5/21/2017 5:57	0.13				SR12	5/21/2017 5:57	0.15			
SR4						SR12					
SR4	5/21/2017 6:37	0.14				SR12	5/21/2017 6:37	0.15			
SR4	5/21/2017 6:57	0.14				SR12	5/21/2017 6:57	0.13			
SR4	5/21/2017 7:17	0.12				SR12	5/21/2017 7:17	0.14			
SR4	5/21/2017 7:37	0.13				SR12	5/21/2017 7:37	0.17			
SR4	5/21/2017 7:57	0.13				SR12	5/21/2017 7:57	0.17			
SR4	5/21/2017 8:17	0.13				SR12	5/21/2017 8:17	0.17			
SR4	5/21/2017 8:37	0.13				SR12	5/21/2017 8:37	0.17			
SR4	5/21/2017 8:57	0.12				SR12	5/21/2017 8:57	0.15			
SR4	5/21/2017 9:17	0.13				SR12	5/21/2017 9:17	0.17			
SR4	5/21/2017 9:37	0.12				SR12	5/21/2017 9:37	0.15			
SR4	5/21/2017 9:57	0.12				SR12	5/21/2017 9:57	0.16			
SR4	5/21/2017 10:17	0.12				SR12	5/21/2017 10:17	0.14			
SR4	5/21/2017 10:37	0.12				SR12	5/21/2017 10:37	0.16			
SR4	5/21/2017 10:57	0.12				SR12	5/21/2017 10:57	0.16			
SR4	5/21/2017 11:17	0.13				SR12	5/21/2017 11:17	0.13			
SR4	5/21/2017 11:37	0.11				SR12	5/21/2017 11:37	0.13			
SR4	5/21/2017 11:57	0.13				SR12	5/21/2017 11:57	0.13			
SR4	5/21/2017 12:17	0.13				SR12	5/21/2017 12:17	0.17			
SR4	5/21/2017 12:37	0.11				SR12	5/21/2017 12:37	0.16			
SR4	5/21/2017 12:57	0.13				SR12	5/21/2017 12:57	0.15			
SR4	5/21/2017 13:17	0.14				SR12	5/21/2017 13:17	0.14			
SR4	5/21/2017 13:37	0.12				SR12	5/21/2017 13:37	0.16			
SR4	5/21/2017 13:57	0.14				SR12	5/21/2017 13:57	0.16			
SR4	5/21/2017 14:17	0.12				SR12	5/21/2017 14:17	0.15			
SR4	5/21/2017 14:37	0.12				SR12	5/21/2017 14:37	0.13			
SR4	5/21/2017 14:57	0.14				SR12	5/21/2017 14:57	0.17			
SR4	5/21/2017 15:17	0.13				SR12	5/21/2017 15:17	0.17			
SR4	5/21/2017 15:37	0.12				SR12	5/21/2017 15:37	0.17			
SR4	5/21/2017 15:57	0.14				SR12	5/21/2017 15:57	0.15			
SR4	5/21/2017 16:17	0.14				SR12	5/21/2017 16:17	0.17			
SR4	5/21/2017 16:37	0.11				SR12	5/21/2017 16:37	0.15			
SR4	5/21/2017 16:57	0.12				SR12	5/21/2017 16:57	0.17			
SR4	5/21/2017 17:17	0.12				SR12	5/21/2017 17:17	0.15			
SR4	5/21/2017 17:37	0.14				SR12	5/21/2017 17:37	0.13			
SR4	5/21/2017 17:57	0.11				SR12	5/21/2017 17:57	0.15			
SR4	5/21/2017 18:17	0.14				SR12	5/21/2017 18:17	0.15			
SR4	5/21/2017 18:37	0.13				SR12	5/21/2017 18:37	0.16			
SR4	5/21/2017 18:57	0.11				SR12	5/21/2017 18:57	0.13			
SR4	5/21/2017 19:17	0.12				SR12	5/21/2017 19:17	0.16			
SR4	5/21/2017 19:37	0.14				SR12	5/21/2017 19:37	0.14			
SR4	5/21/2017 19:57	0.14				SR12	5/21/2017 19:57	0.13			
SR4	5/21/2017 20:17	0.13				SR12	5/21/2017 20:17	0.14			
SR4	5/21/2017 20:37	0.13				SR12	5/21/2017 20:37	0.17			
SR4	5/21/2017 20:57	0.11				SR12	5/21/2017 20:57	0.17			
SR4	5/21/2017 21:17	0.12				SR12	5/21/2017 21:17	0.16			
SR4	5/21/2017 21:37	0.14				SR12	5/21/2017 21:37	0.15			
SR4	5/21/2017 21:57	0.12				SR12	5/21/2017 21:57	0.14			
SR4	5/21/2017 22:17	0.14				SR12	5/21/2017 22:17	0.15			
SR4	5/21/2017 22:37	0.12				SR12	5/21/2017 22:37	0.12			
SR4	5/21/2017 22:57	0.11				SR12	5/21/2017 22:57	0.13			
SR4	5/21/2017 23:17	0.13				SR12	5/21/2017 23:17	0.16			
SR4	5/21/2017 23:37	0.13				SR12	5/21/2017 23:37	0.16			
SR4	5/21/2017 23:57	0.12				SR12	5/21/2017 23:57	0.14			

Remark: Fonts with underline: Action Level Exceedance

**Fonts in Bold with underline: Limit Level Exceedance**

Automatic Instrument calibration of NH<sub>3</sub>-N monitor was carried out during 5:57-6:37 at SR4 and SR12.

24-hr Water Quality Monitoring

Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)
SR4	5/22/2017 0:01	28.45	77.9	6.28	7.2	SR4	5/22/2017 6:01	28.38	77.6	6.26	8.5	SR4	5/22/2017 12:01	28.27	77.1	6.22	8.4	SR4	5/22/2017 18:01	28.50	71.3	5.75	2.5
SR4	5/22/2017 0:06	28.30	77.4	6.24	9.0	SR4	5/22/2017 6:06	28.27	77.6	6.26	9.0	SR4	5/22/2017 12:06	28.25	77.7	6.27	6.9	SR4	5/22/2017 18:06	28.39	71.3	5.75	5.8
SR4	5/22/2017 0:11	28.35	77.7	6.24	9.2	SR4	5/22/2017 6:11	28.37	77.3	6.23	8.8	SR4	5/22/2017 12:11	28.27	77.6	6.26	7.6	SR4	5/22/2017 18:11	28.38	71.9	5.80	5.6
SR4	5/22/2017 0:16	28.54	77.5	6.25	7.6	SR4	5/22/2017 6:16	28.41	77.7	6.27	9.4	SR4					SR4	5/22/2017 18:16	28.45	70.2	5.66	2.3	
SR4	5/22/2017 0:21	28.54	77.3	6.23	8.2	SR4	5/22/2017 6:21	28.47	78.0	6.29	6.7	SR4					SR4	5/22/2017 18:21	28.45	70.4	5.68	2.6	
SR4	5/22/2017 0:26	28.49	77.1	6.22	6.8	SR4	5/22/2017 6:26	28.34	77.6	6.26	6.5	SR4					SR4	5/22/2017 18:26	28.34	69.7	5.62	4.1	
SR4	5/22/2017 0:31	28.32	77.6	6.26	8.7	SR4	5/22/2017 6:31	28.42	77.0	6.21	6.8	SR4					SR4	5/22/2017 18:31	28.39	69.8	5.63	3.2	
SR4	5/22/2017 0:36	28.24	77.0	6.21	7.6	SR4	5/22/2017 6:36	28.25	77.5	6.25	6.5	SR4					SR4	5/22/2017 18:36	28.51	69.8	5.63	5.1	
SR4	5/22/2017 0:41	28.48	77.7	6.27	7.7	SR4	5/22/2017 6:41	28.45	77.4	6.24	6.5	SR4					SR4	5/22/2017 18:41	28.50	69.8	5.63	6.5	
SR4	5/22/2017 0:46	28.24	78.0	6.29	8.7	SR4	5/22/2017 6:46	28.46	77.6	6.26	8.6	SR4					SR4	5/22/2017 18:46	28.33	72.2	5.82	6.3	
SR4	5/22/2017 0:51	28.46	77.3	6.23	8.9	SR4	5/22/2017 6:51	28.34	77.6	6.26	7.7	SR4					SR4	5/22/2017 18:51	28.43	70.1	5.65	3.3	
SR4	5/22/2017 0:56	28.29	77.0	6.21	7.8	SR4	5/22/2017 6:56	28.25	77.4	6.24	8.2	SR4					SR4	5/22/2017 18:56	28.29	71.7	5.78	6.6	
SR4	5/22/2017 1:01	28.31	77.4	6.24	7.4	SR4	5/22/2017 7:01	28.51	77.9	6.28	8.2	SR4					SR4	5/22/2017 19:01	28.49	69.7	5.62	4.4	
SR4	5/22/2017 1:06	28.50	77.5	6.25	8.4	SR4	5/22/2017 7:06	28.32	77.0	6.21	9.0	SR4					SR4	5/22/2017 19:06	28.34	71.3	5.75	6.3	
SR4	5/22/2017 1:11	28.29	77.7	6.27	6.8	SR4	5/22/2017 7:11	28.54	77.4	6.24	7.3	SR4					SR4	5/22/2017 19:11	28.47	71.3	5.75	3.9	
SR4	5/22/2017 1:16	28.48	77.9	6.28	8.6	SR4	5/22/2017 7:16	28.49	77.3	6.23	9.0	SR4					SR4	5/22/2017 19:16	28.31	71.5	5.77	5.3	
SR4	5/22/2017 1:21	28.46	77.1	6.22	8.3	SR4	5/22/2017 7:21	28.39	77.9	6.28	9.0	SR4	5/22/2017 13:21	28.25	76.6	6.18	7.1	SR4	5/22/2017 19:21	28.33	71.3	5.75	6.1
SR4	5/22/2017 1:26	28.26	77.9	6.28	7.0	SR4	5/22/2017 7:26	28.47	78.0	6.29	8.3	SR4	5/22/2017 13:26	28.33	74.8	6.03	8.8	SR4	5/22/2017 19:26	28.54	70.7	5.70	4.5
SR4	5/22/2017 1:31	28.33	77.0	6.21	8.7	SR4	5/22/2017 7:31	28.53	77.9	6.28	7.6	SR4	5/22/2017 13:31	28.32	73.8	5.95	5.5	SR4	5/22/2017 19:31	28.28	71.9	5.80	4.4
SR4	5/22/2017 1:36	28.35	77.0	6.21	6.9	SR4	5/22/2017 7:36	28.48	77.6	6.26	8.6	SR4	5/22/2017 13:36	28.40	75.9	6.12	8.9	SR4	5/22/2017 19:36	28.29	70.3	5.67	4.8
SR4	5/22/2017 1:41	28.31	77.0	6.21	6.8	SR4	5/22/2017 7:41	28.49	78.0	6.29	7.8	SR4	5/22/2017 13:41	28.33	74.2	5.98	9.3	SR4	5/22/2017 19:41	28.53	71.8	5.79	4.8
SR4	5/22/2017 1:46	28.45	77.3	6.23	9.1	SR4	5/22/2017 7:46	28.28	77.0	6.21	8.1	SR4	5/22/2017 13:46	28.29	73.9	5.96	9.4	SR4	5/22/2017 19:46	28.46	70.1	5.65	3.4
SR4	5/22/2017 1:51	28.39	77.4	6.24	7.9	SR4	5/22/2017 7:51	28.26	77.5	6.25	6.6	SR4	5/22/2017 13:51	28.24	73.9	5.96	5.3	SR4	5/22/2017 19:51	28.51	70.1	5.65	4.2
SR4	5/22/2017 1:56	28.52	77.0	6.21	6.4	SR4	5/22/2017 7:56	28.29	77.7	6.27	7.2	SR4	5/22/2017 13:56	28.42	74.5	6.01	6.8	SR4	5/22/2017 19:56	28.45	70.1	5.65	6.2
SR4	5/22/2017 2:01	28.30	77.3	6.23	8.5	SR4	5/22/2017 8:01	28.28	77.1	6.22	6.8	SR4	5/22/2017 14:01	28.51	74.4	6.00	8.2	SR4	5/22/2017 20:01	28.42	69.8	5.63	3.7
SR4	5/22/2017 2:06	28.48	77.6	6.26	8.0	SR4	5/22/2017 8:06	28.45	78.0	6.29	7.3	SR4	5/22/2017 14:06	28.32	74.0	5.97	6.7	SR4	5/22/2017 20:06	28.54	70.4	5.68	2.5
SR4	5/22/2017 2:11	28.44	78.0	6.29	9.4	SR4	5/22/2017 8:11	28.35	77.6	6.26	7.2	SR4	5/22/2017 14:11	28.47	73.0	5.89	7.0	SR4	5/22/2017 20:11	28.48	69.6	5.61	3.5
SR4	5/22/2017 2:16	28.24	77.5	6.25	8.5	SR4	5/22/2017 8:16	28.33	78.0	6.29	8.9	SR4	5/22/2017 14:16	28.46	73.5	5.93	8.3	SR4	5/22/2017 20:16	28.43	69.7	5.62	5.2
SR4	5/22/2017 2:21	28.53	77.1	6.22	7.8	SR4	5/22/2017 8:21	28.51	77.3	6.23	9.4	SR4	5/22/2017 14:21	28.54	75.3	6.07	9.0	SR4	5/22/2017 20:21	28.47	72.5	5.85	4.4
SR4	5/22/2017 2:26	28.48	77.0	6.21	7.4	SR4	5/22/2017 8:26	28.46	77.0	6.21	8.8	SR4	5/22/2017 14:26	28.25	76.0	6.13	6.2	SR4	5/22/2017 20:26	28.36	70.8	5.71	3.2
SR4	5/22/2017 2:31	28.26	77.1	6.22	8.2	SR4	5/22/2017 8:31	28.51	77.6	6.26	9.4	SR4	5/22/2017 14:31	28.54	74.2	5.98	8.8	SR4	5/22/2017 20:31	28.52	70.3	5.67	2.3
SR4	5/22/2017 2:36	28.54	77.3	6.23	8.9	SR4	5/22/2017 8:36	28.27	78.0	6.29	9.0	SR4	5/22/2017 14:36	28.30	75.1	6.06	7.9	SR4	5/22/2017 20:36	28.45	70.8	5.71	4.9
SR4	5/22/2017 2:41	28.47	78.0	6.29	9.3	SR4	5/22/2017 8:41	28.42	77.0	6.21	6.4	SR4	5/22/2017 14:41	28.27	75.5	6.09	5.7	SR4	5/22/2017 20:41	28.50	71.7	5.78	4.3
SR4	5/22/2017 2:46	28.48	77.5	6.25	7.5	SR4	5/22/2017 8:46	28.27	77.7	6.27	7.7	SR4	5/22/2017 14:46	28.38	73.0	5.89	7.1	SR4	5/22/2017 20:46	28.29	71.7	5.78	5.8
SR4	5/22/2017 2:51	28.34	77.9	6.28	7.5	SR4	5/22/2017 8:51	28.36	77.7	6.27	9.2	SR4	5/22/2017 14:51	28.52	74.9	6.04	7.9	SR4	5/22/2017 20:51	28.36	71.8	5.79	3.6
SR4	5/22/2017 2:56	28.27	77.6	6.26	9.3	SR4	5/22/2017 8:56	28.52	78.0	6.29	9.3	SR4	5/22/2017 14:56	28.39	74.2	5.98	5.8	SR4	5/22/2017 20:56	28.47	71.9	5.80	3.6
SR4	5/22/2017 3:01	28.29	77.7	6.27	7.6	SR4	5/22/2017 9:01	28.37	77.7	6.27	7.5	SR4	5/22/2017 15:01	28.30	74.3	5.99	7.6	SR4	5/22/2017 21:01	28.41	69.9	5.64	5.9
SR4	5/22/2017 3:06	28.39	77.7	6.27	6.5	SR4	5/22/2017 9:06	28.34	77.6	6.26	6.5	SR4	5/22/2017 15:06	28.35	77.0	6.21	6.1	SR4	5/22/2017 21:06	28.28	69.7	5.62	5.3
SR4	5/22/2017 3:11	28.31	77.4	6.24	9.3	SR4	5/22/2017 9:11	28.47	77.6	6.26	8.1	SR4	5/22/2017 15:11	28.39	76.3	6.15	6.8	SR4	5/22/2017 21:11	28.44	72.3	5.83	6.3
SR4	5/22/2017 3:16	28.43	77.5	6.25	7.8	SR4	5/22/2017 9:16	28.41	77.0	6.21	9.2	SR4	5/22/2017 15:16	28.53	73.9	5.96	5.5	SR4	5/22/2017 21:16	28.39	72.0	5.81	3.1
SR4	5/22/2017 3:21	28.51	77.3	6.23	7.4	SR4	5/22/2017 9:21	28.53	77.5	6.25	7.1	SR4	5/22/2017 15:21	28.51	72.0	5.81	2.8	SR4	5/22/2017 21:21	28.37	71.2	5.74	6.7
SR4	5/22/2017 3:26	28.30	77.7	6.27	7.9	SR4	5/22/2017 9:26	28.53	77.9	6.28	8.2	SR4	5/22/2017 15:26	28.42	71.3	5.75	5.4	SR4	5/22/2017 21:26	28.35	69.7	5.62	2.5
SR4	5/22/2017 3:31	28.27	77.9	6.28	7.6	SR4	5/22/2017 9:31	28.47	77.9	6.28	7.1	SR4	5/22/2017 15:31	28.24	70.2	5.66	6.2	SR4	5/22/2017 21:31	28.51	72.0	5.81	3.8
SR4	5/22/2017 3:36	28.25	77.6	6.26	8.6	SR4	5/22/2017 9:36	28.34	77.5	6.25	7.7	SR4	5/22/2017 15:36	28.35	69.6	5.61	3.6	SR4	5/22/2017 21:36	28.37	72.5	5.85	6.2
SR4	5/22/2017 3:41	28.36	77.3	6.23	8.5	SR4	5/22/2017 9:41	28.44	77.5	6.25	8.1	SR4	5/22/2017 15:41	28.42	72.0	5.81	6.4	SR4	5/22/2017 21:41	28.41	69.7	5.62	4.6
SR4	5/22/2017 3:46	28.33	77.1	6.22	8.1	SR4	5/22/2017 9:46	28.27	77.5	6.25	8.8	SR4	5/22/2017 15:46	28.45	70.8	5.71	5.7	SR4	5/22/2017 21:46	28.24	70.9	5.72	4.5
SR4	5/22/2017 3:51	28.31	77.4	6.24	7.1	SR4	5/22/2017 9:51	28.35	77.1	6.22	8.6	SR4	5/22/2017 15:51	28.46	71.4	5.76	3.3	SR4	5/22/2017 21:51	28.27	70.2	5.66	5.4
SR4	5/22/2017 3:56	28.30	77.6	6.26	7.2	SR4	5/22/2017 9:56	28.25	77.3	6.23	7.7	SR4	5/22/2017 15:56	28.49	72.4	5.84	6.4	SR4	5/22/2017 21:56	28.48	70.3	5.67	3.6
SR4	5/22/2017 4:01	28.52	78.0	6.29	8.6	SR4	5/22/2017 10:01	28.32	77.3	6.23	7.3	SR4	5/22/2017 16:01	28.43	72.4	5.84	6.7	SR4	5/22/2017 22:01	28.42	71.1	5.73	4.0
SR4	5/22/2017 4:06	28.45	77.1	6.22	9.3	SR4	5/22/2017 10:06	28.31	7														

24-hr Water Quality Monitoring

Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)
SR5	5/22/2017 0:00	28.00	66.8	5.39	7.0	SR5	5/22/2017 6:00	27.92	66.1	5.33	7.5	SR5	5/22/2017 12:00	27.84	66.1	5.33	8.7	SR5	5/22/2017 18:00	27.79	67.0	5.40	9.3
SR5	5/22/2017 0:05	27.98	65.7	5.30	8.9	SR5	5/22/2017 6:05	27.89	66.5	5.36	8.4	SR5	5/22/2017 12:05	27.83	66.8	5.39	7.7	SR5	5/22/2017 18:05	27.81	67.6	5.45	8.5
SR5	5/22/2017 0:10	27.99	66.6	5.37	7.1	SR5	5/22/2017 6:10	27.89	66.8	5.39	5.9	SR5	5/22/2017 12:10	27.88	66.0	5.32	5.4	SR5	5/22/2017 18:10	27.80	67.1	5.41	7.1
SR5	5/22/2017 0:15	27.96	66.0	5.32	6.9	SR5	5/22/2017 6:15	27.94	67.1	5.41	9.0	SR5	5/22/2017 12:15	27.88	66.8	5.39	7.3	SR5	5/22/2017 18:15	27.78	67.8	5.47	7.4
SR5	5/22/2017 0:20	27.95	66.7	5.38	6.7	SR5	5/22/2017 6:20	27.89	65.8	5.31	7.5	SR5	5/22/2017 12:20	27.87	66.5	5.36	5.6	SR5	5/22/2017 18:20	27.79	67.1	5.41	8.3
SR5	5/22/2017 0:25	28.00	66.7	5.38	8.4	SR5	5/22/2017 6:25	27.92	65.7	5.30	5.6	SR5	5/22/2017 12:25	27.87	67.1	5.41	6.8	SR5	5/22/2017 18:25	27.80	67.3	5.43	7.0
SR5	5/22/2017 0:30	27.99	66.3	5.35	5.4	SR5	5/22/2017 6:30	27.89	65.8	5.31	7.5	SR5	5/22/2017 12:30	27.83	67.1	5.41	7.4	SR5	5/22/2017 18:30	27.81	67.1	5.41	6.5
SR5	5/22/2017 0:35	27.96	66.1	5.33	6.8	SR5	5/22/2017 6:35	27.92	66.0	5.32	8.3	SR5	5/22/2017 12:35	27.84	66.2	5.34	9.0	SR5	5/22/2017 18:35	27.79	67.5	5.44	8.4
SR5	5/22/2017 0:40	27.97	66.8	5.39	5.8	SR5	5/22/2017 6:40	27.90	66.0	5.32	8.1	SR5	5/22/2017 12:40	27.88	66.2	5.34	6.5	SR5	5/22/2017 18:40	27.80	67.3	5.43	8.3
SR5	5/22/2017 0:45	27.94	66.2	5.34	6.7	SR5	5/22/2017 6:45	27.91	66.8	5.39	8.0	SR5	5/22/2017 12:45	27.85	66.3	5.35	9.1	SR5	5/22/2017 18:45	27.81	67.0	5.40	7.1
SR5	5/22/2017 0:50	27.94	67.2	5.42	8.8	SR5	5/22/2017 6:50	27.88	66.8	5.39	9.1	SR5	5/22/2017 12:50	27.88	66.0	5.32	6.5	SR5	5/22/2017 18:50	27.81	67.7	5.46	9.0
SR5	5/22/2017 0:55	27.94	66.7	5.38	7.9	SR5	5/22/2017 6:55	27.89	66.8	5.39	6.9	SR5	5/22/2017 12:55	27.85	65.8	5.31	8.8	SR5	5/22/2017 18:55	27.77	68.1	5.49	9.0
SR5	5/22/2017 1:00	27.94	66.6	5.37	6.6	SR5	5/22/2017 7:00	27.92	67.0	5.40	5.4	SR5	5/22/2017 13:00	27.86	66.8	5.39	6.4	SR5	5/22/2017 19:00	27.77	68.0	5.48	8.4
SR5	5/22/2017 1:05	27.98	67.2	5.42	7.5	SR5	5/22/2017 7:05	27.90	66.7	5.38	7.5	SR5	5/22/2017 13:05	27.86	65.8	5.31	5.7	SR5	5/22/2017 19:05	27.81	68.1	5.49	8.5
SR5	5/22/2017 1:10	27.93	67.0	5.40	6.3	SR5	5/22/2017 7:10	27.91	65.8	5.31	9.0	SR5	5/22/2017 13:10	27.84	66.5	5.36	7.5	SR5	5/22/2017 19:10	27.77	67.3	5.43	9.0
SR5	5/22/2017 1:15	27.94	66.7	5.38	8.9	SR5	5/22/2017 7:15	27.91	65.7	5.30	6.3	SR5	5/22/2017 13:15	27.86	66.1	5.33	6.6	SR5	5/22/2017 19:15	27.81	68.1	5.49	7.9
SR5	5/22/2017 1:20	27.95	65.7	5.30	5.5	SR5	5/22/2017 7:20	27.89	67.1	5.41	7.2	SR5	5/22/2017 13:20	27.86	66.0	5.32	7.1	SR5	5/22/2017 19:20	27.81	67.8	5.47	7.8
SR5	5/22/2017 1:25	27.96	66.2	5.34	7.5	SR5	5/22/2017 7:25	27.89	67.2	5.42	5.4	SR5	5/22/2017 13:25	27.83	65.8	5.31	8.1	SR5	5/22/2017 19:25	27.82	68.1	5.49	7.4
SR5	5/22/2017 1:30	27.96	66.5	5.36	9.0	SR5	5/22/2017 7:30	27.89	67.0	5.40	5.8	SR5	5/22/2017 13:30	27.85	65.8	5.31	7.2	SR5	5/22/2017 19:30	27.79	67.2	5.42	8.3
SR5	5/22/2017 1:35	27.97	65.8	5.31	9.1	SR5	5/22/2017 7:35	27.90	66.7	5.38	7.8	SR5	5/22/2017 13:35	27.85	66.6	5.37	6.0	SR5	5/22/2017 19:35	27.81	67.8	5.47	7.7
SR5	5/22/2017 1:40	27.94	66.1	5.33	5.9	SR5	5/22/2017 7:40	27.90	67.1	5.41	8.4	SR5	5/22/2017 13:40	27.83	67.0	5.40	5.4	SR5	5/22/2017 19:40	27.79	67.3	5.43	9.1
SR5	5/22/2017 1:45	27.93	66.7	5.38	7.8	SR5	5/22/2017 7:45	27.89	66.8	5.39	7.2	SR5	5/22/2017 13:45	27.87	67.2	5.42	6.3	SR5	5/22/2017 19:45	27.78	67.1	5.41	7.2
SR5	5/22/2017 1:50	27.94	66.0	5.32	8.0	SR5	5/22/2017 7:50	27.89	66.5	5.36	7.4	SR5	5/22/2017 13:50	27.84	65.8	5.31	6.6	SR5	5/22/2017 19:50	27.77	68.0	5.48	8.2
SR5	5/22/2017 1:55	27.95	66.0	5.32	9.0	SR5	5/22/2017 7:55	27.91	65.8	5.31	8.2	SR5	5/22/2017 13:55	27.84	66.7	5.38	7.1	SR5	5/22/2017 19:55	27.82	68.0	5.48	6.5
SR5	5/22/2017 2:00	27.95	66.3	5.35	6.0	SR5	5/22/2017 8:00	27.90	66.1	5.33	5.6	SR5	5/22/2017 14:00	27.82	66.8	5.39	7.7	SR5	5/22/2017 20:00	27.81	67.5	5.44	8.7
SR5	5/22/2017 2:05	27.98	66.5	5.36	5.6	SR5	5/22/2017 8:05	27.91	66.5	5.36	8.2	SR5	5/22/2017 14:05	27.86	67.1	5.41	7.3	SR5	5/22/2017 20:05	27.78	67.2	5.42	7.0
SR5	5/22/2017 2:10	27.97	66.7	5.38	9.1	SR5	5/22/2017 8:10	27.88	66.1	5.33	7.9	SR5	5/22/2017 14:10	27.83	66.0	5.32	8.4	SR5	5/22/2017 20:10	27.77	67.1	5.41	6.9
SR5	5/22/2017 2:15	27.96	66.5	5.36	5.5	SR5	5/22/2017 8:15	27.88	66.7	5.38	8.0	SR5	5/22/2017 14:15	27.86	66.5	5.36	8.8	SR5	5/22/2017 20:15	27.77	68.0	5.48	8.0
SR5	5/22/2017 2:20	27.94	66.5	5.36	5.8	SR5	5/22/2017 8:20	27.87	65.8	5.31	8.2	SR5	5/22/2017 14:20	27.84	66.0	5.32	6.9	SR5	5/22/2017 20:20	27.81	68.1	5.49	7.7
SR5	5/22/2017 2:25	27.96	67.1	5.41	6.8	SR5	5/22/2017 8:25	27.90	66.5	5.36	5.4	SR5	5/22/2017 14:25	27.82	66.3	5.35	8.3	SR5	5/22/2017 20:25	27.80	67.6	5.45	8.1
SR5	5/22/2017 2:30	27.98	65.7	5.30	8.0	SR5	5/22/2017 8:30	27.87	67.2	5.42	6.6	SR5	5/22/2017 14:30	27.82	66.3	5.35	6.1	SR5	5/22/2017 20:30	27.78	68.0	5.48	9.2
SR5	5/22/2017 2:35	27.95	66.2	5.34	8.8	SR5	5/22/2017 8:35	27.88	66.6	5.37	8.5	SR5	5/22/2017 14:35	27.83	66.2	5.34	8.6	SR5	5/22/2017 20:35	27.79	67.3	5.43	8.5
SR5	5/22/2017 2:40	27.94	66.2	5.34	7.4	SR5	5/22/2017 8:40	27.91	65.7	5.30	7.2	SR5	5/22/2017 14:40	27.81	66.3	5.35	5.7	SR5	5/22/2017 20:40	27.81	67.0	5.40	6.4
SR5	5/22/2017 2:45	27.93	66.6	5.37	9.0	SR5	5/22/2017 8:45	27.86	66.1	5.33	9.0	SR5	5/22/2017 14:45	27.86	65.8	5.31	5.4	SR5	5/22/2017 20:45	27.79	67.1	5.41	7.1
SR5	5/22/2017 2:50	27.98	66.5	5.36	5.5	SR5	5/22/2017 8:50	27.88	65.8	5.31	7.1	SR5	5/22/2017 14:50	27.82	66.8	5.39	7.8	SR5	5/22/2017 20:50	27.80	67.2	5.42	9.0
SR5	5/22/2017 2:55	27.94	66.2	5.34	6.6	SR5	5/22/2017 8:55	27.91	66.5	5.36	8.6	SR5	5/22/2017 14:55	27.82	66.6	5.37	5.6	SR5	5/22/2017 20:55	27.81	67.8	5.47	8.2
SR5	5/22/2017 3:00	27.94	65.8	5.31	8.6	SR5	5/22/2017 9:00	27.91	66.8	5.39	5.8	SR5	5/22/2017 15:00	27.81	66.5	5.36	6.2	SR5	5/22/2017 21:00	27.77	67.5	5.44	7.9
SR5	5/22/2017 3:05	27.94	66.8	5.39	5.4	SR5	5/22/2017 9:05	27.86	66.3	5.35	5.8	SR5	5/22/2017 15:05	27.80	66.6	5.37	5.8	SR5	5/22/2017 21:05	27.78	68.1	5.49	7.6
SR5	5/22/2017 3:10	27.96	66.1	5.33	5.7	SR5	5/22/2017 9:10	27.88	67.2	5.42	7.3	SR5	5/22/2017 15:10	27.81	67.1	5.41	7.3	SR5	5/22/2017 21:10	27.80	68.1	5.49	7.8
SR5	5/22/2017 3:15	27.95	66.5	5.36	6.1	SR5	5/22/2017 9:15	27.88	66.2	5.34	5.8	SR5	5/22/2017 15:15	27.80	67.3	5.43	8.9	SR5	5/22/2017 21:15	27.81	67.7	5.46	6.9
SR5	5/22/2017 3:20	27.94	65.8	5.31	5.7	SR5	5/22/2017 9:20	27.89	66.1	5.33	8.7	SR5	5/22/2017 15:20	27.84	67.5	5.44	7.3	SR5	5/22/2017 21:20	27.81	67.1	5.41	8.5
SR5	5/22/2017 3:25	27.94	65.8	5.31	8.8	SR5	5/22/2017 9:25	27.90	65.7	5.30	6.5	SR5	5/22/2017 15:25	27.81	67.6	5.45	9.2	SR5	5/22/2017 21:25	27.80	67.2	5.42	9.1
SR5	5/22/2017 3:30	27.93	66.2	5.34	7.4	SR5	5/22/2017 9:30	27.91	65.7	5.30	9.1	SR5	5/22/2017 15:30	27.82	67.3	5.43	7.9	SR5	5/22/2017 21:30	27.81	67.8	5.47	7.5
SR5	5/22/2017 3:35	27.95	67.1	5.41	5.6	SR5	5/22/2017 9:35	27.92	65.8	5.31	6.1	SR5	5/22/2017 15:35	27.81	67.0	5.40	7.5	SR5	5/22/2017 21:35	27.79	68.1	5.49	7.0
SR5	5/22/2017 3:40	27.94	66.2	5.34	7.0	SR5	5/22/2017 9:40	27.88	65.8	5.31	8.2	SR5	5/22/2017 15:40	27.80	67.6	5.45	8.2	SR5	5/22/2017 21:40	27.78	67.0	5.40	7.1
SR5	5/22/2017 3:45	27.96	66.2	5.34	7.9	SR5	5/22/2017 9:45	27.88	65.8	5.31	7.8	SR5	5/22/2017 15:45	27.80	68.1	5.49	8.1	SR5	5/22/2017 21:45	27.80	67.8	5.47	8.2
SR5	5/22/2017 3:50	27.96	66.0	5.32	5.5	SR5	5/22/2017 9:50	27.90	66.5	5.36	8.1	SR5	5/22/2017 15:50	27.81	67.7	5.46	6.4	SR5	5/22/2017 21:50	27.78	68.1	5.49	6.5
SR5	5/22/2017 3:55	27.93	66.2	5.34	5.8	SR5	5/22/2017 9:55	27.88	66.7	5.38													

## 24-hr Water Quality Monitoring

Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)
SR12	5/22/2017 0:01	27.82	67.5	5.44	5.4	SR12	5/22/2017 6:01	27.77	66.6	5.37	4.1	SR12	5/22/2017 12:01	27.71	67.2	5.42	4.7	SR12	5/22/2017 18:01	27.61	67.6	5.45	4.5
SR12	5/22/2017 0:06	27.84	67.5	5.44	5.2	SR12	5/22/2017 6:06	27.76	67.6	5.45	5.0	SR12	5/22/2017 12:06	27.71	67.3	5.43	2.8	SR12	5/22/2017 18:06	27.61	66.8	5.39	5.7
SR12	5/22/2017 0:11	27.79	66.7	5.38	2.8	SR12	5/22/2017 6:11	27.76	66.6	5.37	5.5	SR12	5/22/2017 12:11	27.72	67.5	5.44	5.4	SR12	5/22/2017 18:11	27.58	67.5	5.44	2.1
SR12	5/22/2017 0:16	27.84	66.6	5.37	1.9	SR12	5/22/2017 6:16	27.79	67.3	5.43	3.2	SR12	5/22/2017 12:16	27.69	67.8	5.47	4.2	SR12	5/22/2017 18:16	27.60	67.0	5.40	5.2
SR12	5/22/2017 0:21	27.83	67.7	5.46	5.1	SR12	5/22/2017 6:21	27.76	67.2	5.42	4.0	SR12	5/22/2017 12:21	27.70	67.0	5.40	5.0	SR12	5/22/2017 18:21	27.60	67.3	5.43	2.0
SR12	5/22/2017 0:26	27.83	66.6	5.37	5.6	SR12	5/22/2017 6:26	27.75	67.0	5.40	2.2	SR12	5/22/2017 12:26	27.71	66.7	5.38	5.1	SR12	5/22/2017 18:26	27.59	67.6	5.45	3.0
SR12	5/22/2017 0:31	27.83	67.1	5.41	4.8	SR12	5/22/2017 6:31	27.74	66.6	5.37	3.0	SR12	5/22/2017 12:31	27.68	66.8	5.39	5.6	SR12	5/22/2017 18:31	27.63	66.5	5.36	4.0
SR12	5/22/2017 0:36	27.81	66.8	5.39	5.7	SR12	5/22/2017 6:36	27.76	67.8	5.47	3.2	SR12	5/22/2017 12:36	27.70	67.8	5.47	5.3	SR12	5/22/2017 18:36	27.62	67.2	5.42	4.7
SR12	5/22/2017 0:41	27.82	67.8	5.47	1.3	SR12	5/22/2017 6:41	27.77	66.6	5.37	5.9	SR12	5/22/2017 12:41	27.68	66.7	5.38	4.9	SR12	5/22/2017 18:41	27.58	66.7	5.38	3.5
SR12	5/22/2017 0:46	27.81	67.2	5.42	4.1	SR12	5/22/2017 6:46	27.76	67.1	5.41	3.3	SR12	5/22/2017 12:46	27.71	66.6	5.37	4.7	SR12	5/22/2017 18:46	27.58	66.8	5.39	4.7
SR12	5/22/2017 0:51	27.80	67.0	5.40	4.4	SR12	5/22/2017 6:51	27.74	67.6	5.45	5.0	SR12	5/22/2017 12:51	27.72	67.5	5.44	1.7	SR12	5/22/2017 18:51	27.57	65.8	5.31	4.4
SR12	5/22/2017 0:56	27.80	67.3	5.43	5.9	SR12	5/22/2017 6:56	27.73	67.1	5.41	2.4	SR12	5/22/2017 12:56	27.68	67.2	5.42	4.1	SR12	5/22/2017 18:56	27.57	65.0	5.24	2.5
SR12	5/22/2017 1:01	27.80	67.7	5.46	2.2	SR12	5/22/2017 7:01	27.73	66.6	5.37	3.0	SR12	5/22/2017 13:01	27.70	67.0	5.40	3.4	SR12	5/22/2017 19:01	27.60	66.7	5.38	2.4
SR12	5/22/2017 1:06	27.80	66.7	5.38	2.1	SR12	5/22/2017 7:06	27.75	67.3	5.43	2.4	SR12	5/22/2017 13:06	27.72	66.7	5.38	4.4	SR12	5/22/2017 19:06	27.57	65.0	5.24	4.4
SR12	5/22/2017 1:11	27.78	66.8	5.39	3.4	SR12	5/22/2017 7:11	27.78	67.7	5.46	2.2	SR12	5/22/2017 13:11	27.68	67.5	5.44	4.3	SR12	5/22/2017 19:11	27.57	67.2	5.42	2.9
SR12	5/22/2017 1:16	27.80	66.6	5.37	2.1	SR12	5/22/2017 7:16	27.77	67.5	5.44	3.4	SR12	5/22/2017 13:16	27.68	67.3	5.43	1.6	SR12	5/22/2017 19:16	27.59	66.1	5.33	6.4
SR12	5/22/2017 1:21	27.83	66.8	5.39	5.0	SR12	5/22/2017 7:21	27.73	67.5	5.44	2.0	SR12	5/22/2017 13:21	27.67	67.3	5.43	2.7	SR12	5/22/2017 19:21	27.57	64.6	5.21	5.5
SR12	5/22/2017 1:26	27.82	67.0	5.40	2.0	SR12	5/22/2017 7:26	27.77	67.1	5.41	4.4	SR12	5/22/2017 13:26	27.67	67.8	5.47	3.5	SR12	5/22/2017 19:26	27.57	66.7	5.38	4.9
SR12	5/22/2017 1:31	27.83	67.3	5.43	1.8	SR12	5/22/2017 7:31	27.76	66.7	5.38	2.8	SR12	5/22/2017 13:31	27.67	67.6	5.45	2.9	SR12	5/22/2017 19:31	27.57	65.0	5.24	2.0
SR12	5/22/2017 1:36	27.80	66.6	5.37	5.2	SR12	5/22/2017 7:36	27.74	67.6	5.45	2.8	SR12	5/22/2017 13:36	27.67	66.8	5.39	3.1	SR12	5/22/2017 19:36	27.55	66.8	5.39	5.0
SR12	5/22/2017 1:41	27.81	66.6	5.37	1.3	SR12	5/22/2017 7:41	27.77	67.8	5.47	4.6	SR12	5/22/2017 13:41	27.67	66.7	5.38	3.6	SR12	5/22/2017 19:41	27.56	66.8	5.39	2.3
SR12	5/22/2017 1:46	27.81	67.2	5.42	4.7	SR12	5/22/2017 7:46	27.73	67.7	5.46	4.6	SR12	5/22/2017 13:46	27.69	66.8	5.39	4.3	SR12	5/22/2017 19:46	27.55	67.2	5.42	4.6
SR12	5/22/2017 1:51	27.80	66.6	5.37	1.9	SR12	5/22/2017 7:51	27.74	67.3	5.43	4.1	SR12	5/22/2017 13:51	27.68	67.7	5.46	5.6	SR12	5/22/2017 19:51	27.56	64.9	5.23	3.2
SR12	5/22/2017 1:56	27.84	67.5	5.44	2.5	SR12	5/22/2017 7:56	27.74	67.8	5.47	4.8	SR12	5/22/2017 13:56	27.67	67.1	5.41	2.9	SR12	5/22/2017 19:56	27.56	64.7	5.22	5.0
SR12	5/22/2017 2:01	27.83	66.7	5.38	4.9	SR12	5/22/2017 8:01	27.76	67.1	5.41	5.7	SR12	5/22/2017 14:01	27.67	67.2	5.42	1.9	SR12	5/22/2017 20:01	27.56	64.6	5.21	2.6
SR12	5/22/2017 2:06	27.82	66.7	5.38	1.3	SR12	5/22/2017 8:06	27.72	67.8	5.47	2.5	SR12	5/22/2017 14:06	27.68	67.8	5.47	2.9	SR12	5/22/2017 20:06	27.57	66.7	5.38	6.2
SR12	5/22/2017 2:11	27.80	67.5	5.44	2.1	SR12	5/22/2017 8:11	27.76	67.5	5.44	3.6	SR12	5/22/2017 14:11	27.68	67.2	5.42	5.7	SR12	5/22/2017 20:11	27.56	66.2	5.34	6.0
SR12	5/22/2017 2:16	27.80	67.7	5.46	5.8	SR12	5/22/2017 8:16	27.72	67.8	5.47	1.4	SR12	5/22/2017 14:16	27.69	66.7	5.38	2.1	SR12	5/22/2017 20:16	27.55	67.6	5.45	5.9
SR12	5/22/2017 2:21	27.79	67.7	5.46	3.6	SR12	5/22/2017 8:21	27.73	66.7	5.38	5.3	SR12	5/22/2017 14:21	27.71	67.7	5.46	4.9	SR12	5/22/2017 20:21	27.54	64.6	5.21	4.2
SR12	5/22/2017 2:26	27.82	67.6	5.45	3.6	SR12	5/22/2017 8:26	27.72	67.5	5.44	3.4	SR12	5/22/2017 14:26	27.69	67.5	5.44	5.4	SR12	5/22/2017 20:26	27.54	64.6	5.21	6.2
SR12	5/22/2017 2:31	27.83	67.0	5.40	3.1	SR12	5/22/2017 8:31	27.73	67.2	5.42	3.6	SR12	5/22/2017 14:31	27.71	66.7	5.38	3.7	SR12	5/22/2017 20:31	27.55	65.6	5.29	3.0
SR12	5/22/2017 2:36	27.80	66.6	5.37	3.7	SR12	5/22/2017 8:36	27.73	67.1	5.41	4.8	SR12	5/22/2017 14:36	27.68	66.8	5.39	3.8	SR12	5/22/2017 20:36	27.53	66.2	5.34	2.1
SR12	5/22/2017 2:41	27.81	67.0	5.40	4.8	SR12	5/22/2017 8:41	27.76	66.6	5.37	5.5	SR12	5/22/2017 14:41	27.67	67.8	5.47	3.3	SR12	5/22/2017 20:41	27.53	65.2	5.26	5.1
SR12	5/22/2017 2:46	27.79	66.8	5.39	1.4	SR12	5/22/2017 8:46	27.73	67.3	5.43	2.7	SR12	5/22/2017 14:46	27.69	67.5	5.44	4.4	SR12	5/22/2017 20:46	27.52	66.2	5.34	6.7
SR12	5/22/2017 2:51	27.83	67.0	5.40	1.7	SR12	5/22/2017 8:51	27.71	67.0	5.40	2.6	SR12	5/22/2017 14:51	27.69	67.1	5.41	4.0	SR12	5/22/2017 20:51	27.54	66.5	5.36	6.8
SR12	5/22/2017 2:56	27.82	66.6	5.37	2.7	SR12	5/22/2017 8:56	27.71	66.6	5.37	5.4	SR12	5/22/2017 14:56	27.66	66.6	5.37	2.8	SR12	5/22/2017 20:56	27.54	66.8	5.39	6.8
SR12	5/22/2017 3:01	27.79	66.8	5.39	2.8	SR12	5/22/2017 9:01	27.71	67.5	5.44	2.4	SR12	5/22/2017 15:01	27.65	67.1	5.41	2.3	SR12	5/22/2017 21:01	27.56	67.3	5.43	6.5
SR12	5/22/2017 3:06	27.83	67.0	5.40	2.0	SR12	5/22/2017 9:06	27.75	67.2	5.42	5.4	SR12	5/22/2017 15:06	27.68	66.6	5.37	2.9	SR12	5/22/2017 21:06	27.55	66.3	5.35	5.0
SR12	5/22/2017 3:11	27.81	66.7	5.38	3.9	SR12	5/22/2017 9:11	27.72	67.5	5.44	4.6	SR12	5/22/2017 15:11	27.67	67.0	5.40	1.7	SR12	5/22/2017 21:11	27.52	65.6	5.29	4.8
SR12	5/22/2017 3:16	27.83	67.2	5.42	5.1	SR12	5/22/2017 9:16	27.73	66.8	5.39	5.3	SR12	5/22/2017 15:16	27.70	66.6	5.37	1.7	SR12	5/22/2017 21:16	27.53	65.8	5.31	1.8
SR12	5/22/2017 3:21	27.84	67.5	5.44	4.2	SR12	5/22/2017 9:21	27.74	67.8	5.47	4.3	SR12	5/22/2017 15:21	27.70	67.6	5.45	5.4	SR12	5/22/2017 21:21	27.54	66.8	5.39	6.6
SR12	5/22/2017 3:26	27.81	67.7	5.46	3.3	SR12	5/22/2017 9:26	27.75	67.3	5.43	4.8	SR12	5/22/2017 15:26	27.65	66.8	5.39	2.3	SR12	5/22/2017 21:26	27.56	66.0	5.32	5.7
SR12	5/22/2017 3:31	27.82	67.5	5.44	2.6	SR12	5/22/2017 9:31	27.70	67.5	5.44	5.7	SR12	5/22/2017 15:31	27.69	67.8	5.47	2.1	SR12	5/22/2017 21:31	27.52	66.1	5.33	5.3
SR12	5/22/2017 3:36	27.79	67.7	5.46	2.4	SR12	5/22/2017 9:36	27.73	66.8	5.39	4.8	SR12	5/22/2017 15:36	27.68	67.7	5.46	4.8	SR12	5/22/2017 21:36	27.56	66.0	5.32	4.1
SR12	5/22/2017 3:41	27.79	66.6	5.37	2.8	SR12	5/22/2017 9:41	27.73	67.2	5.42	2.5	SR12	5/22/2017 15:41	27.66	67.0	5.40	3.6	SR12	5/22/2017 21:41	27.52	65.5	5.28	2.3
SR12	5/22/2017 3:46	27.83	67.0	5.40	5.2	SR12	5/22/2017 9:46	27.74	67.3	5.43	1.5	SR12	5/22/2017 15:46	27.66	66.8	5.39	5.3	SR12	5/22/2017 21:46	27.55	65.1	5.25	6.4
SR12	5/22/2017 3:51	27.84	67.3	5.43	3.1	SR12						SR12	5/22/2017 15:51	27.69	67.0	5.40	4.0	SR12	5/22/2017 21:51	27.54	6		

24-hr Water Quality Monitoring

Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)	Station	Timestamp	Temp (°C)	DO (%)	DO (mg/L)	Tur (NTU)
SR13	5/22/2017 0:00	25.42	67.1	5.41	6.5	SR13	5/22/2017 6:00	25.17	66.1	5.33	3.8	SR13	5/22/2017 12:00	25.96	66.3	5.35	3.9	SR13	5/22/2017 18:00	26.35	67.0	5.40	4.8
SR13	5/22/2017 0:05	25.41	66.7	5.38	6.2	SR13	5/22/2017 6:05	25.14	67.5	5.44	5.5	SR13	5/22/2017 12:05	25.97	67.0	5.40	4.9	SR13	5/22/2017 18:05	26.40	66.8	5.39	6.7
SR13	5/22/2017 0:10	25.42	68.0	5.48	6.6	SR13	5/22/2017 6:10	25.12	66.8	5.39	6.4	SR13	5/22/2017 12:10	25.99	67.2	5.42	6.0	SR13	5/22/2017 18:10	26.38	66.3	5.35	5.9
SR13	5/22/2017 0:15	25.42	66.5	5.36	6.8	SR13	5/22/2017 6:15	25.12	66.1	5.33	5.3	SR13	5/22/2017 12:15	26.04	66.7	5.38	6.3	SR13	5/22/2017 18:15	26.36	67.7	5.46	4.1
SR13	5/22/2017 0:20	25.42	67.3	5.43	4.5	SR13	5/22/2017 6:20	25.15	67.6	5.45	5.6	SR13	5/22/2017 12:20	26.01	66.2	5.34	4.1	SR13	5/22/2017 18:20	26.39	67.5	5.44	5.3
SR13	5/22/2017 0:25	25.38	66.8	5.39	5.0	SR13	5/22/2017 6:25	25.17	66.0	5.32	5.1	SR13	5/22/2017 12:25	26.04	67.5	5.44	5.6	SR13	5/22/2017 18:25	26.40	66.3	5.35	6.5
SR13	5/22/2017 0:30	25.36	66.7	5.46	3.7	SR13	5/22/2017 6:30	25.17	66.6	5.37	5.7	SR13	5/22/2017 12:30	26.09	67.8	5.47	6.6	SR13	5/22/2017 18:30	26.36	66.8	5.39	6.5
SR13	5/22/2017 0:35	25.40	67.1	5.41	4.6	SR13	5/22/2017 6:35	25.15	67.3	5.43	5.3	SR13	5/22/2017 12:35	26.08	66.0	5.32	4.8	SR13	5/22/2017 18:35	26.39	67.5	5.44	6.0
SR13	5/22/2017 0:40	25.36	67.6	5.45	6.0	SR13	5/22/2017 6:40	25.17	66.3	5.35	4.4	SR13	5/22/2017 12:40	26.11	67.8	5.47	5.5	SR13	5/22/2017 18:40	26.38	67.7	5.46	5.6
SR13	5/22/2017 0:45	25.35	67.3	5.43	4.5	SR13	5/22/2017 6:45	25.18	67.8	5.47	5.6	SR13	5/22/2017 12:45	26.13	67.3	5.43	5.7	SR13	5/22/2017 18:45	26.38	67.5	5.44	5.8
SR13	5/22/2017 0:50	25.38	67.2	5.42	3.9	SR13	5/22/2017 6:50	25.18	66.2	5.34	5.6	SR13	5/22/2017 12:50	26.15	67.6	5.45	3.8	SR13	5/22/2017 18:50	26.38	66.1	5.33	4.4
SR13	5/22/2017 0:55	25.37	66.8	5.39	4.7	SR13	5/22/2017 6:55	25.15	66.6	5.37	5.5	SR13	5/22/2017 12:55	26.13	66.1	5.33	4.9	SR13	5/22/2017 18:55	26.39	66.5	5.36	5.7
SR13	5/22/2017 1:00	25.34	66.0	5.32	6.4	SR13	5/22/2017 7:00	25.19	67.7	5.46	4.7	SR13	5/22/2017 13:00	26.18	66.0	5.32	6.4	SR13	5/22/2017 19:00	26.40	67.6	5.45	6.1
SR13	5/22/2017 1:05	25.33	67.3	5.43	5.9	SR13	5/22/2017 7:05	25.20	66.5	5.36	5.1	SR13	5/22/2017 13:05	26.19	67.0	5.40	3.9	SR13	5/22/2017 19:05	26.39	67.6	5.45	5.8
SR13	5/22/2017 1:10	25.32	67.2	5.42	5.0	SR13	5/22/2017 7:10	25.16	67.7	5.46	5.3	SR13	5/22/2017 13:10	26.17	66.2	5.34	6.6	SR13	5/22/2017 19:10	26.36	66.5	5.36	5.1
SR13	5/22/2017 1:15	25.32	67.8	5.47	6.7	SR13	5/22/2017 7:15	25.21	67.1	5.41	3.8	SR13	5/22/2017 13:15	26.18	66.2	5.34	5.9	SR13	5/22/2017 19:15	26.40	67.7	5.46	3.8
SR13	5/22/2017 1:20	25.34	67.8	5.47	4.6	SR13	5/22/2017 7:20	25.19	66.8	5.39	4.5	SR13	5/22/2017 13:20	26.19	66.6	5.37	6.2	SR13	5/22/2017 19:20	26.37	67.3	5.43	6.3
SR13	5/22/2017 1:25	25.31	66.5	5.36	5.7	SR13	5/22/2017 7:25	25.22	67.1	5.41	6.4	SR13	5/22/2017 13:25	26.23	66.8	5.39	5.3	SR13	5/22/2017 19:25	26.36	66.0	5.32	6.3
SR13	5/22/2017 1:30	25.32	66.0	5.32	6.5	SR13	5/22/2017 7:30	25.22	67.2	5.42	4.6	SR13	5/22/2017 13:30	26.26	66.7	5.38	6.0	SR13	5/22/2017 19:30	26.37	65.8	5.31	5.6
SR13	5/22/2017 1:35	25.28	67.0	5.40	4.9	SR13	5/22/2017 7:35	25.20	67.8	5.47	5.5	SR13	5/22/2017 13:35	26.26	66.5	5.36	6.8	SR13	5/22/2017 19:35	26.35	66.2	5.34	4.2
SR13	5/22/2017 1:40	25.31	66.1	5.33	5.3	SR13	5/22/2017 7:40	25.21	66.6	5.37	4.2	SR13	5/22/2017 13:40	26.28	67.2	5.42	5.5	SR13	5/22/2017 19:40	26.39	66.6	5.37	5.3
SR13	5/22/2017 1:45	25.30	66.7	5.38	5.1	SR13	5/22/2017 7:45	25.23	67.2	5.42	5.3	SR13	5/22/2017 13:45	26.26	67.3	5.43	6.1	SR13	5/22/2017 19:45	26.35	66.1	5.33	5.0
SR13	5/22/2017 1:50	25.30	67.3	5.43	4.5	SR13	5/22/2017 7:50	25.25	68.0	5.48	4.2	SR13	5/22/2017 13:50	26.27	67.3	5.43	6.0	SR13	5/22/2017 19:50	26.37	67.8	5.47	6.3
SR13	5/22/2017 1:55	25.25	65.8	5.31	5.2	SR13	5/22/2017 7:55	25.26	67.8	5.47	4.2	SR13	5/22/2017 13:55	26.29	67.5	5.44	4.8	SR13	5/22/2017 19:55	26.35	67.3	5.43	6.8
SR13	5/22/2017 2:00	25.24	67.3	5.43	5.1	SR13	5/22/2017 8:00	25.23	66.7	5.38	4.1	SR13	5/22/2017 14:00	26.31	66.2	5.34	5.3	SR13	5/22/2017 20:00	26.36	67.6	5.45	6.7
SR13	5/22/2017 2:05	25.25	66.8	5.39	5.3	SR13	5/22/2017 8:05	25.25	67.7	5.46	5.6	SR13	5/22/2017 14:05	26.33	66.5	5.36	6.0	SR13	5/22/2017 20:05	26.34	67.3	5.43	3.7
SR13	5/22/2017 2:10	25.25	66.0	5.32	4.7	SR13	5/22/2017 8:10	25.25	67.5	5.44	5.9	SR13	5/22/2017 14:10	26.34	67.7	5.46	5.4	SR13	5/22/2017 20:10	26.36	66.5	5.36	5.0
SR13	5/22/2017 2:15	25.23	66.5	5.36	5.2	SR13	5/22/2017 8:15	25.28	67.0	5.40	6.0	SR13	5/22/2017 14:15	26.33	66.5	5.36	6.6	SR13	5/22/2017 20:15	26.35	68.0	5.48	4.8
SR13	5/22/2017 2:20	25.23	66.8	5.39	5.7	SR13	5/22/2017 8:20	25.26	67.5	5.44	6.4	SR13	5/22/2017 14:20	26.38	66.5	5.36	4.0	SR13	5/22/2017 20:20	26.37	66.2	5.34	4.2
SR13	5/22/2017 2:25	25.23	66.8	5.39	5.1	SR13	5/22/2017 8:25	25.26	66.3	5.35	6.3	SR13	5/22/2017 14:25	26.36	67.8	5.47	5.9	SR13	5/22/2017 20:25	26.35	66.1	5.33	4.2
SR13	5/22/2017 2:30	25.21	66.8	5.39	6.1	SR13	5/22/2017 8:30	25.31	67.7	5.46	6.4	SR13	5/22/2017 14:30	26.40	66.2	5.34	5.8	SR13	5/22/2017 20:30	26.36	65.8	5.31	4.2
SR13	5/22/2017 2:35	25.20	66.5	5.36	6.6	SR13	5/22/2017 8:35	25.28	67.5	5.44	4.8	SR13	5/22/2017 14:35	26.40	66.6	5.37	4.3	SR13	5/22/2017 20:35	26.37	67.6	5.45	5.3
SR13	5/22/2017 2:40	25.19	68.0	5.48	4.6	SR13	5/22/2017 8:40	25.30	67.7	5.46	3.9	SR13	5/22/2017 14:40	26.40	66.1	5.33	3.7	SR13	5/22/2017 20:40	26.33	67.3	5.43	3.9
SR13	5/22/2017 2:45	25.18	65.8	5.31	5.9	SR13	5/22/2017 8:45	25.34	66.2	5.34	5.9	SR13	5/22/2017 14:45	26.39	66.8	5.39	5.6	SR13	5/22/2017 20:45	26.36	66.1	5.33	6.4
SR13	5/22/2017 2:50	25.20	67.0	5.40	4.7	SR13	5/22/2017 8:50	25.34	66.7	5.38	5.6	SR13	5/22/2017 14:50	26.42	67.0	5.40	4.6	SR13	5/22/2017 20:50	26.32	65.8	5.31	6.1
SR13	5/22/2017 2:55	25.16	68.0	5.48	6.0	SR13	5/22/2017 8:55	25.31	66.1	5.33	5.6	SR13	5/22/2017 14:55	26.40	66.5	5.36	4.4	SR13	5/22/2017 20:55	26.36	66.0	5.32	3.8
SR13	5/22/2017 3:00	25.16	66.6	5.37	5.5	SR13	5/22/2017 9:00	25.37	67.8	5.47	4.8	SR13	5/22/2017 15:00	26.41	66.0	5.32	6.7	SR13	5/22/2017 21:00	26.34	67.7	5.46	5.5
SR13	5/22/2017 3:05	25.16	67.3	5.43	6.4	SR13	5/22/2017 9:05	25.34	67.2	5.42	5.1	SR13	5/22/2017 15:05	26.43	67.3	5.43	4.9	SR13	5/22/2017 21:05	26.32	66.7	5.38	6.2
SR13	5/22/2017 3:10	25.18	66.8	5.39	6.2	SR13	5/22/2017 9:10	25.39	66.0	5.32	4.1	SR13	5/22/2017 15:10	26.43	68.0	5.48	4.8	SR13	5/22/2017 21:10	26.32	67.2	5.42	5.4
SR13	5/22/2017 3:15	25.15	66.6	5.37	5.2	SR13	5/22/2017 9:15	25.36	67.7	5.46	5.3	SR13	5/22/2017 15:15	26.42	67.7	5.46	4.2	SR13	5/22/2017 21:15	26.36	67.5	5.44	5.0
SR13	5/22/2017 3:20	25.17	66.8	5.39	6.1	SR13	5/22/2017 9:20	25.36	67.6	5.45	5.4	SR13	5/22/2017 15:20	26.43	66.8	5.39	4.6	SR13	5/22/2017 21:20	26.31	67.7	5.46	6.7
SR13	5/22/2017 3:25	25.15	67.7	5.46	4.5	SR13	5/22/2017 9:25	25.39	66.8	5.39	6.3	SR13	5/22/2017 15:25	26.41	67.0	5.40	6.6	SR13	5/22/2017 21:25	26.35	67.6	5.45	5.4
SR13	5/22/2017 3:30	25.13	66.0	5.32	6.8	SR13	5/22/2017 9:30	25.39	67.8	5.47	4.0	SR13	5/22/2017 15:30	26.42	68.0	5.48	4.9	SR13	5/22/2017 21:30	26.34	67.1	5.41	4.0
SR13	5/22/2017 3:35	25.14	67.8	5.47	3.8	SR13	5/22/2017 9:35	25.40	66.8	5.39	4.4	SR13	5/22/2017 15:35	26.42	67.7	5.46	6.5	SR13	5/22/2017 21:35	26.30	67.8	5.47	6.6
SR13	5/22/2017 3:40	25.16	67.3	5.43	4.0	SR13	5/22/2017 9:40	25.43	66.6	5.37	5.2	SR13						SR13	5/22/2017 21:40	26.32	68.3	5.46	6.5
SR13	5/22/2017 3:45	25.15	66.2	5.34	4.4	SR13	5/22/2017 9:45	25.45	67.7	5.46	4.7	SR13						SR13	5/22/2017 21:45	26.34	68.5	5.48	6.7
SR13	5/22/2017 3:50	25.15	66.3	5.35	4.2	SR13	5/22/2017 9:50	25.44	67.8	5.47	4.8	SR13						SR13	5/22/2017 21:50	26.33	68.9	5.51	6.3
SR13	5/22/2017 3:55	25.13																					

24-hr Water Quality Monitoring

Station	Timestamp	NH <sub>3</sub> (mg/L)				Station	Timestamp	NH <sub>3</sub> (mg/L)			
SR4	5/22/2017 0:17	0.11				SR12	5/22/2017 0:17	0.12			
SR4	5/22/2017 0:37	0.11				SR12	5/22/2017 0:37	0.13			
SR4	5/22/2017 0:57	0.14				SR12	5/22/2017 0:57	0.16			
SR4	5/22/2017 1:17	0.13				SR12	5/22/2017 1:17	0.15			
SR4	5/22/2017 1:37	0.11				SR12	5/22/2017 1:37	0.13			
SR4	5/22/2017 1:57	0.13				SR12	5/22/2017 1:57	0.12			
SR4	5/22/2017 2:17	0.13				SR12	5/22/2017 2:17	0.16			
SR4	5/22/2017 2:37	0.13				SR12	5/22/2017 2:37	0.13			
SR4	5/22/2017 2:57	0.14				SR12	5/22/2017 2:57	0.13			
SR4	5/22/2017 3:17	0.12				SR12	5/22/2017 3:17	0.15			
SR4	5/22/2017 3:37	0.13				SR12	5/22/2017 3:37	0.16			
SR4	5/22/2017 3:57	0.12				SR12	5/22/2017 3:57	0.16			
SR4	5/22/2017 4:17	0.13				SR12	5/22/2017 4:17	0.15			
SR4	5/22/2017 4:37	0.10				SR12	5/22/2017 4:37	0.15			
SR4	5/22/2017 4:57	0.12				SR12	5/22/2017 4:57	0.15			
SR4	5/22/2017 5:17	0.10				SR12	5/22/2017 5:17	0.13			
SR4	5/22/2017 5:37	0.10				SR12	5/22/2017 5:37	0.14			
SR4	5/22/2017 5:57	0.14				SR12	5/22/2017 5:57	0.15			
SR4						SR12					
SR4	5/22/2017 6:37	0.14				SR12	5/22/2017 6:37	0.13			
SR4	5/22/2017 6:57	0.12				SR12	5/22/2017 6:57	0.12			
SR4	5/22/2017 7:17	0.13				SR12	5/22/2017 7:17	0.12			
SR4	5/22/2017 7:37	0.11				SR12	5/22/2017 7:37	0.15			
SR4	5/22/2017 7:57	0.14				SR12	5/22/2017 7:57	0.13			
SR4	5/22/2017 8:17	0.14				SR12	5/22/2017 8:17	0.13			
SR4	5/22/2017 8:37	0.11				SR12	5/22/2017 8:37	0.16			
SR4	5/22/2017 8:57	0.10				SR12	5/22/2017 8:57	0.13			
SR4	5/22/2017 9:17	0.12				SR12	5/22/2017 9:17	0.12			
SR4	5/22/2017 9:37	0.10				SR12	5/22/2017 9:37	0.14			
SR4	5/22/2017 9:57	0.10				SR12					
SR4	5/22/2017 10:17	0.12				SR12					
SR4	5/22/2017 10:37	0.11				SR12					
SR4	5/22/2017 10:57	0.12				SR12					
SR4	5/22/2017 11:17	0.11				SR12	5/22/2017 11:17	0.16			
SR4	5/22/2017 11:37	0.12				SR12	5/22/2017 11:37	0.16			
SR4	5/22/2017 11:57	0.12				SR12	5/22/2017 11:57	0.16			
SR4						SR12	5/22/2017 12:17	0.16			
SR4						SR12	5/22/2017 12:37	0.15			
SR4						SR12	5/22/2017 12:57	0.14			
SR4						SR12	5/22/2017 13:17	0.16			
SR4						SR12	5/22/2017 13:37	0.14			
SR4	5/22/2017 13:57	0.10				SR12	5/22/2017 13:57	0.15			
SR4	5/22/2017 14:17	0.13				SR12	5/22/2017 14:17	0.12			
SR4	5/22/2017 14:37	0.11				SR12	5/22/2017 14:37	0.15			
SR4	5/22/2017 14:57	0.11				SR12	5/22/2017 14:57	0.13			
SR4	5/22/2017 15:17	0.14				SR12	5/22/2017 15:17	0.13			
SR4	5/22/2017 15:37	0.12				SR12	5/22/2017 15:37	0.14			
SR4	5/22/2017 15:57	0.12				SR12	5/22/2017 15:57	0.13			
SR4	5/22/2017 16:17	0.14				SR12	5/22/2017 16:17	0.12			
SR4	5/22/2017 16:37	0.12				SR12	5/22/2017 16:37	0.11			
SR4	5/22/2017 16:57	0.10				SR12	5/22/2017 16:57	0.13			
SR4	5/22/2017 17:17	0.12				SR12	5/22/2017 17:17	0.12			
SR4	5/22/2017 17:37	0.13				SR12	5/22/2017 17:37	0.15			
SR4	5/22/2017 17:57	0.12				SR12	5/22/2017 17:57	0.12			
SR4	5/22/2017 18:17	0.11				SR12	5/22/2017 18:17	0.11			
SR4	5/22/2017 18:37	0.10				SR12	5/22/2017 18:37	0.11			
SR4	5/22/2017 18:57	0.14				SR12	5/22/2017 18:57	0.15			
SR4	5/22/2017 19:17	0.13				SR12	5/22/2017 19:17	0.11			
SR4	5/22/2017 19:37	0.10				SR12	5/22/2017 19:37	0.12			
SR4	5/22/2017 19:57	0.11				SR12	5/22/2017 19:57	0.11			
SR4	5/22/2017 20:17	0.14				SR12	5/22/2017 20:17	0.15			
SR4	5/22/2017 20:37	0.11				SR12	5/22/2017 20:37	0.15			
SR4	5/22/2017 20:57	0.14				SR12	5/22/2017 20:57	0.13			
SR4	5/22/2017 21:17	0.10				SR12	5/22/2017 21:17	0.11			
SR4	5/22/2017 21:37	0.12				SR12	5/22/2017 21:37	0.14			
SR4	5/22/2017 21:57	0.14				SR12	5/22/2017 21:57	0.12			
SR4	5/22/2017 22:17	0.15				SR12	5/22/2017 22:17	0.11			
SR4	5/22/2017 22:37	0.15				SR12	5/22/2017 22:37	0.13			
SR4	5/22/2017 22:57	0.11				SR12	5/22/2017 22:57	0.14			
SR4	5/22/2017 23:17	0.14				SR12	5/22/2017 23:17	0.14			
SR4	5/22/2017 23:37	0.13				SR12	5/22/2017 23:37	0.15			
SR4	5/22/2017 23:57	0.11				SR12	5/22/2017 23:57	0.14			

Remark: Fonts with underline: Action Level Exceedance

**Fonts in Bold with underline: Limit Level Exceedance**

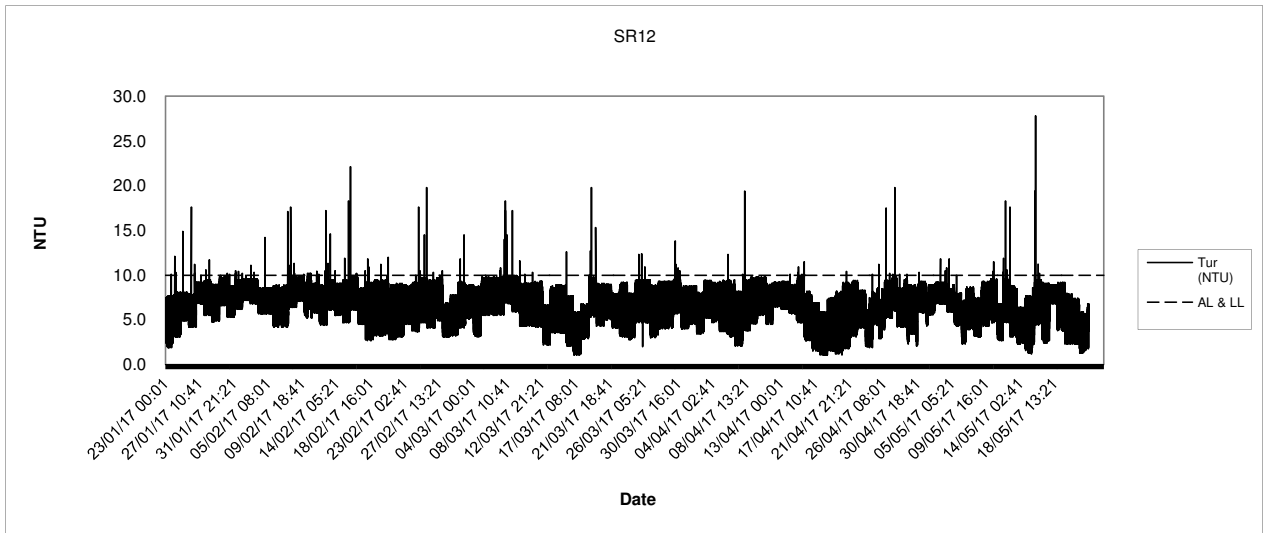
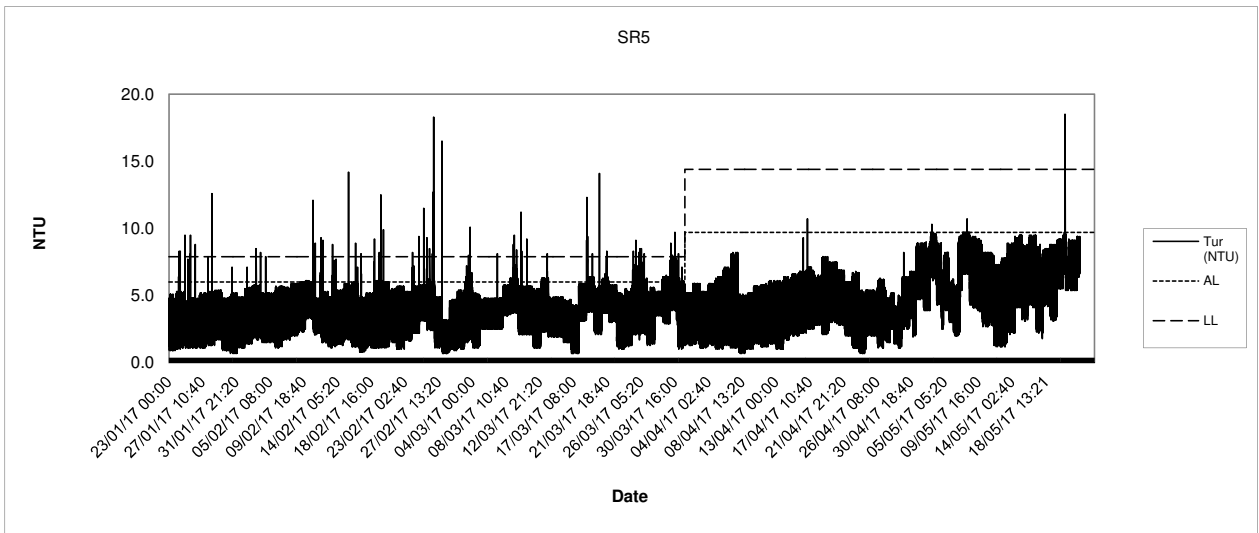
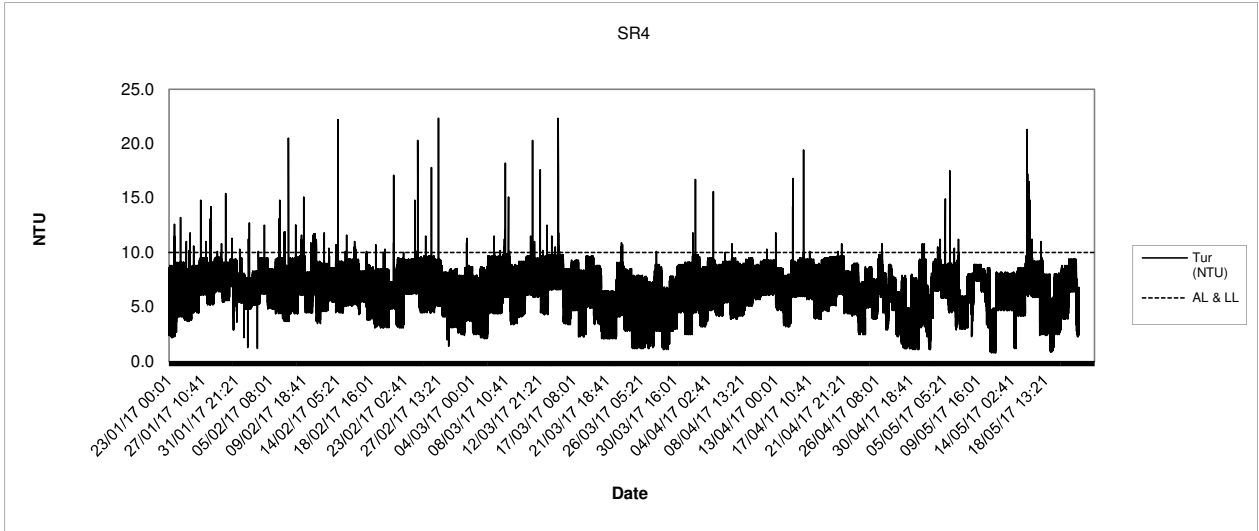
Automatic Instrument calibration of NH<sub>3</sub>-N monitor was carried out during 5:57-6:37 at SR4 and SR12.

SR4 monitoring station was under maintenance during 12:11-13:21.

SR12 monitoring station was under maintenance during 9:46-10:56.

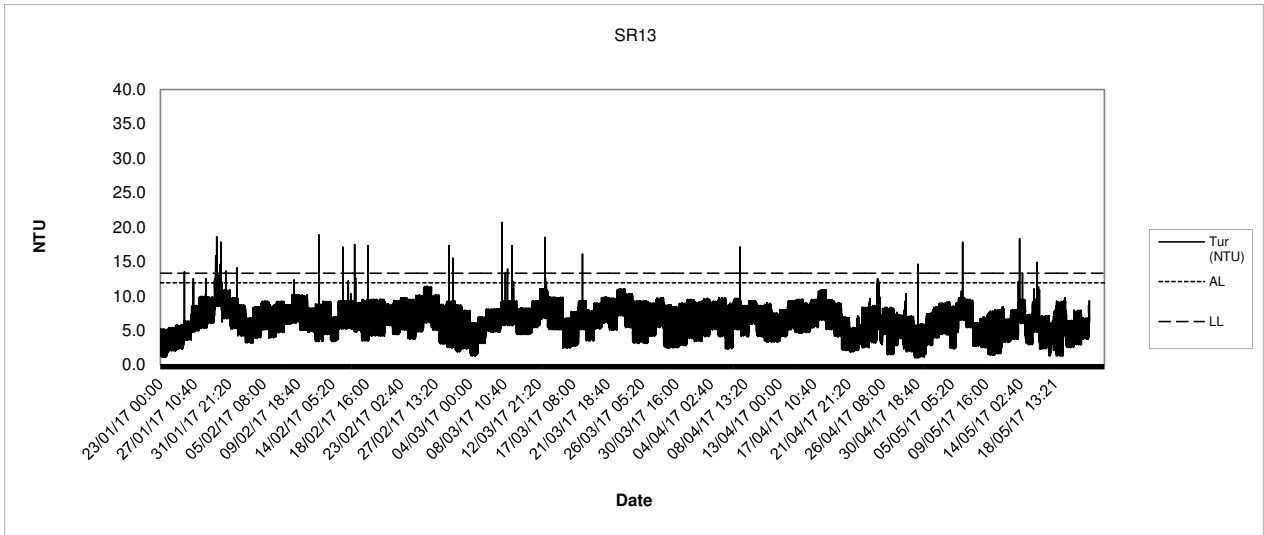
SR13 monitoring station was under maintenance during 15:35-16:00.

Turbidity  
24-hr Water Quality Monitoring

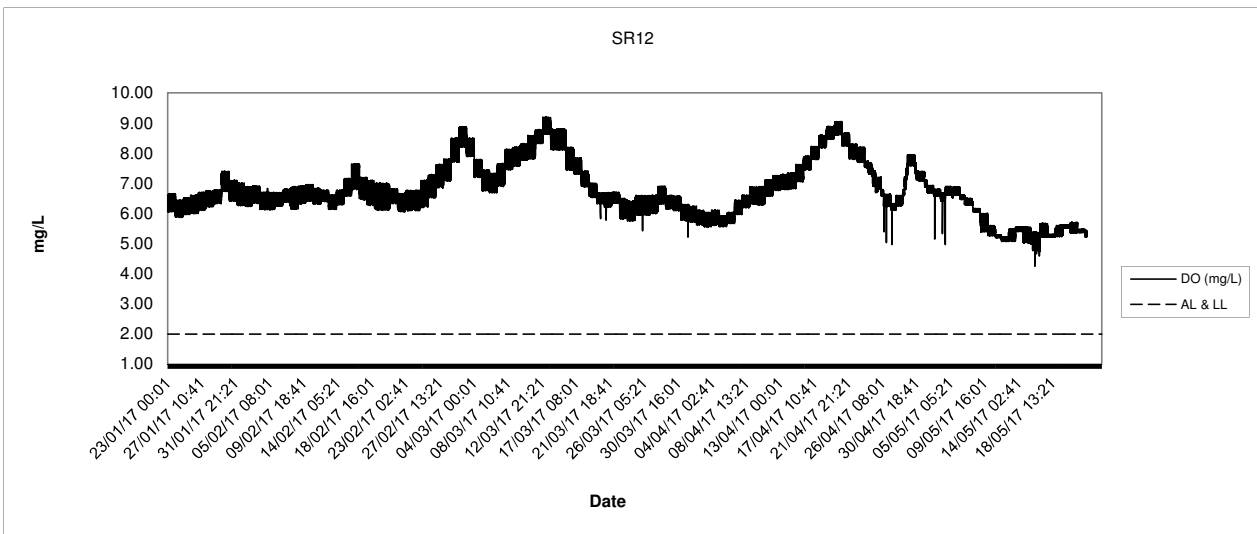
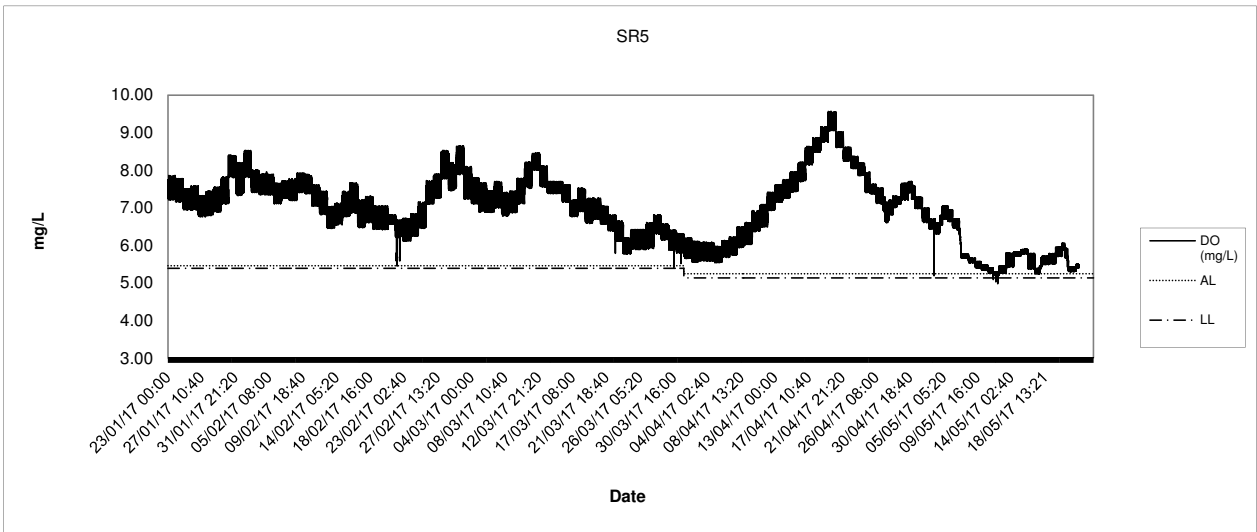
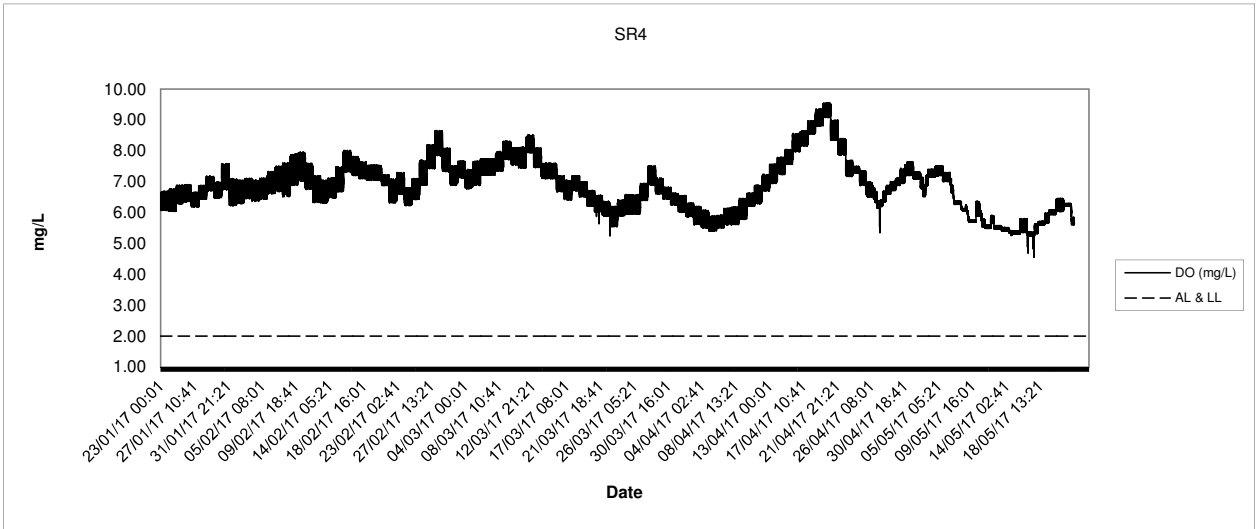




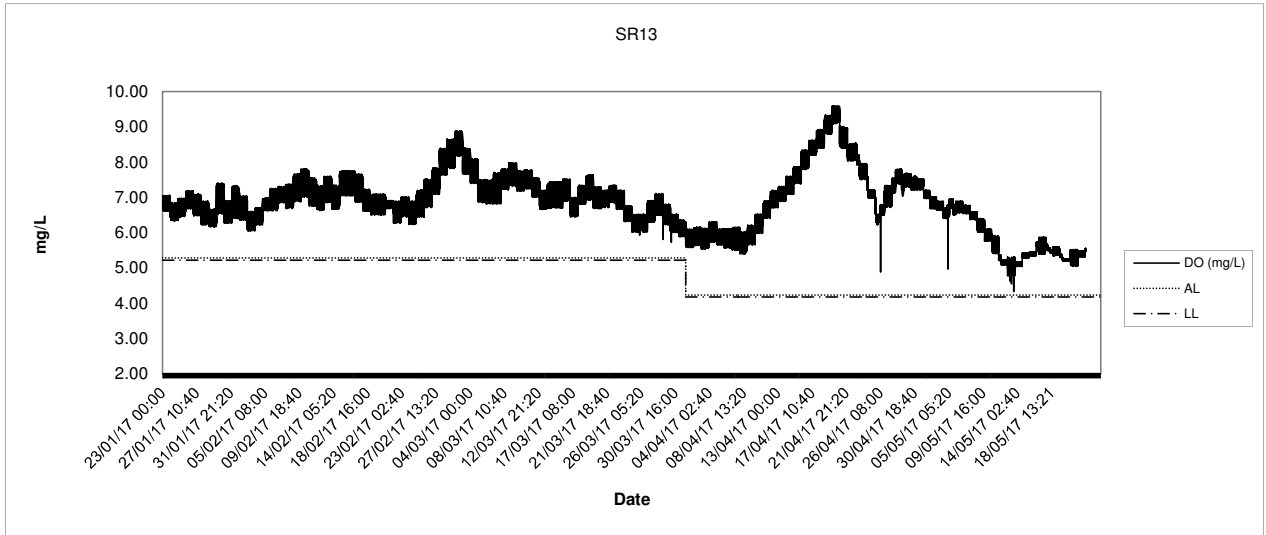
### Turbidity 24-hr Water Quality Monitoring



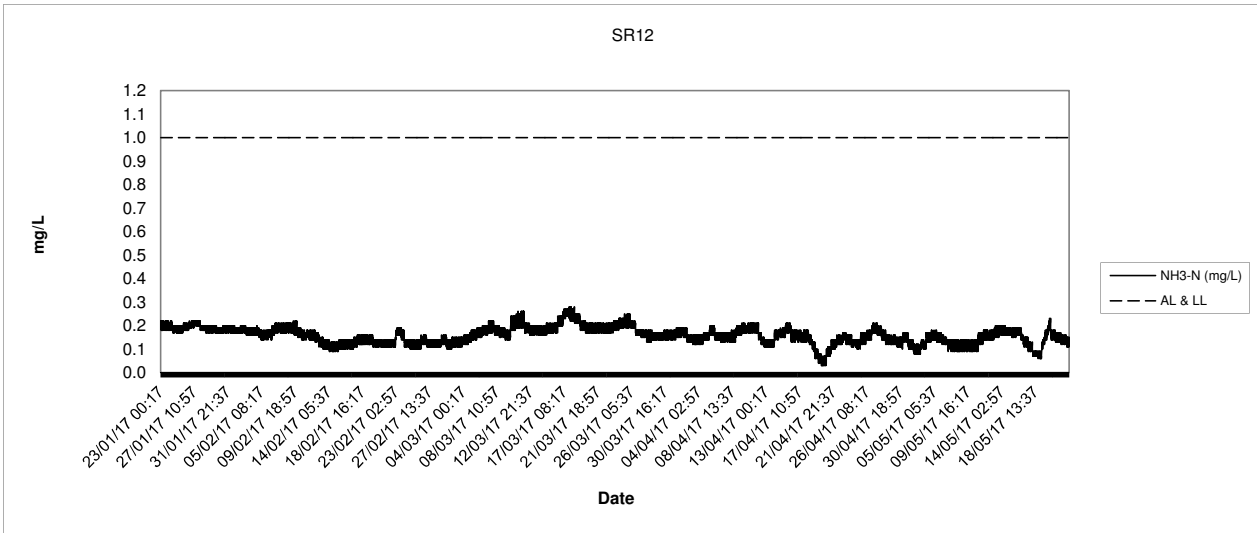
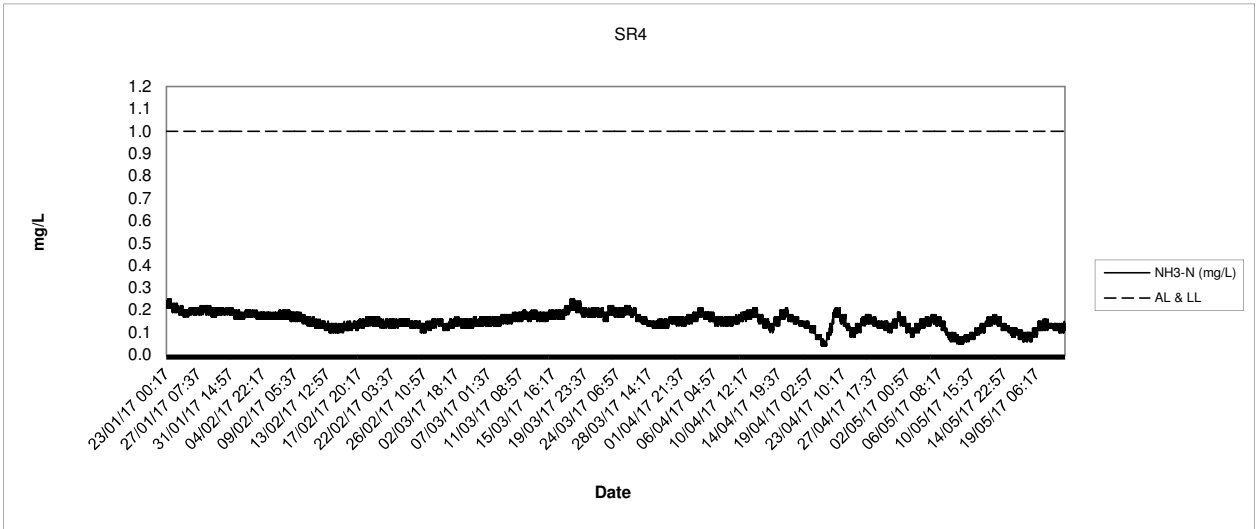
Dissolved Oxygen  
24-hr Water Quality Monitoring



Dissolved Oxygen  
24-hr Water Quality Monitoring



### Ammonia-N 24-hr Water Quality Monitoring



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**MaterialLab**

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Report No.: 0394/13/ED/0358

Appendix H  
Event and Action Plans

## Typical Event and Action Plan for Water Quality for Construction Phase

Event	Action			
	ET Leader	IEC	ER	Contractor
<b>Action Level</b>				
Exceedance for one sample	<ol style="list-style-type: none"> <li>1. Repeat in-situ measurement to confirm finding;</li> <li>2. Identify source(s) of impact;</li> <li>3. Inform IEC and Contractor;</li> <li>4. Check monitoring data, all plant, equipment and Contractor's working methods;</li> <li>5. Discuss mitigation measures with IEC and Contractor; and</li> <li>6. Repeat measurement on next day of exceedance.</li> </ol>	<ol style="list-style-type: none"> <li>1. Discuss with ET and Contractor on the mitigation measures;</li> <li>2. Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly; and</li> <li>3. Assess the effectiveness of the implemented mitigation measures.</li> </ol>	<ol style="list-style-type: none"> <li>1. Discuss with IEC on the proposed mitigation measures; and</li> <li>2. Make agreement on the mitigation measures to be implemented.</li> </ol>	<ol style="list-style-type: none"> <li>1. Inform the ER and confirm notification of the non-compliance in writing;</li> <li>2. Rectify unacceptable practice;</li> <li>3. Check all plant and equipment;</li> <li>4. Consider changes of working methods;</li> <li>5. Discuss with ET and IEC and propose mitigation measures to IEC and ER; and</li> <li>6. Implement the agreed mitigation measures.</li> </ol>
Exceedance for two or more consecutive samples	<ol style="list-style-type: none"> <li>1. Repeat in-situ measurement to confirm finding;</li> <li>2. Identify source(s) of impact;</li> <li>3. Inform IEC and Contractor;</li> <li>4. Check monitoring data, all plant, equipment and Contractor's working methods;</li> <li>5. Discuss mitigation measures with IEC and Contractor;</li> <li>6. Ensure mitigation measures are implemented;</li> <li>7. Prepare to increase the monitoring frequency to daily; and</li> <li>8. Repeat measurement on next day of exceedance.</li> </ol>	<ol style="list-style-type: none"> <li>1. Discuss with ET and Contractor on the mitigation measures;</li> <li>2. Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly; and</li> <li>3. Assess the effectiveness of the implemented mitigation measures.</li> </ol>	<ol style="list-style-type: none"> <li>1. Discuss with IEC on the proposed mitigation measures;</li> <li>2. Make agreement on the mitigation measures to be implemented; and</li> <li>3. Assess the effectiveness of the implemented mitigation measures.</li> </ol>	<ol style="list-style-type: none"> <li>1. Inform the ER and confirm notification of the non-compliance in writing;</li> <li>2. Rectify unacceptable practice;</li> <li>3. Check all plant and equipment;</li> <li>4. Consider changes of working methods;</li> <li>5. Discuss with ET and IEC and propose mitigation measures to IEC and ER within 3 working days; and</li> <li>6. Implement the agreed mitigation measures.</li> </ol>
Exceedance for two or more consecutive samples	<ol style="list-style-type: none"> <li>1. Repeat in-situ measurement to confirm finding;</li> <li>2. Identify source(s) of impact;</li> <li>3. Inform IEC and Contractor;</li> <li>4. Check monitoring data, all plant, equipment and Contractor's working methods;</li> <li>5. Discuss mitigation measures with IEC and Contractor;</li> <li>6. Ensure mitigation measures are implemented;</li> <li>7. Prepare to increase the monitoring frequency to daily; and</li> <li>8. Repeat measurement on next day of exceedance.</li> </ol>	<ol style="list-style-type: none"> <li>1. Discuss with ET and Contractor on the mitigation measures;</li> <li>2. Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly; and</li> <li>3. Assess the effectiveness of the implemented mitigation measures.</li> </ol>	<ol style="list-style-type: none"> <li>1. Discuss with IEC on the proposed mitigation measures;</li> <li>2. Make agreement on the mitigation measures to be implemented; and</li> <li>3. Assess the effectiveness of the implemented mitigation measures.</li> </ol>	<ol style="list-style-type: none"> <li>1. Inform the ER and confirm notification of the non-compliance in writing;</li> <li>2. Rectify unacceptable practice;</li> <li>3. Check all plant and equipment;</li> <li>4. Consider changes of working methods;</li> <li>5. Discuss with ET and IEC and propose mitigation measures to IEC and ER within 3 working days; and</li> <li>6. Implement the agreed mitigation measures.</li> </ol>
<b>Limit Level</b>				
Exceedance for one sample	<ol style="list-style-type: none"> <li>1. Repeat in-situ measurement to confirm finding;</li> <li>2. Identify source(s) of impact;</li> <li>3. Inform IEC, Contractor and EPD, if the exceedance is recorded at Fish Culture Zone, AFCD should be informed. If the exceedance is recorded at WSD Flushing Water intakes, WSD should be informed;</li> <li>4. Check monitoring data, all plant, equipment</li> </ol>	<ol style="list-style-type: none"> <li>1. Discuss with ET and Contractor on the mitigation measures;</li> <li>2. Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly; and</li> <li>3. Assess the effectiveness of the implemented mitigation measures.</li> </ol>	<ol style="list-style-type: none"> <li>1. Discuss with IEC, ET and Contractor on the proposed mitigation measures; and</li> <li>2. Request Contractor to critically review the working methods;</li> <li>3. Make agreement on the mitigation measures to be implemented; and</li> <li>4. Assess the effectiveness of the implemented mitigation measures.</li> </ol>	<ol style="list-style-type: none"> <li>1. Inform the ER and confirm notification of the non-compliance in writing;</li> <li>2. Rectify unacceptable practice;</li> <li>3. Check all plant and equipment;</li> <li>4. Consider changes of working methods;</li> <li>5. Discuss with ET and IEC and ER and propose mitigation measures to IEC and ER within 3 working days; and</li> <li>6. Implement the agreed mitigation measures.</li> </ol>

Event	Action			
	ET Leader	IEC	ER	Contractor
	<p>and Contractor's working methods;</p> <p>5. Discuss mitigation measures with IEC, ER and Contractor;</p> <p>6. Ensure mitigation measures are implemented; and</p> <p>7. Increase the monitoring frequency to daily until no exceedance of Limit level.</p>			
Exceedance for two or more consecutive samples	<p>1. Repeat in-situ measurement to confirm finding;</p> <p>2. Identify source(s) of impact;</p> <p>3. Inform IEC, Contractor and EPD, if the exceedance is recorded at Fish Culture Zone, AFCD should be informed. If the exceedance is recorded at WSD Flushing Water intakes, WSD should be informed;</p> <p>4. Check monitoring data, all plant, equipment and Contractor's working methods;</p> <p>5. Discuss mitigation measures with IEC, ER and Contractor;</p> <p>6. Ensure mitigation measures are implemented; and</p> <p>7. Increase the monitoring frequency to daily until no exceedance of Limit level for two consecutive days.</p>	<p>1. Discuss with ET and Contractor on the mitigation measures;</p> <p>2. Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly; and</p> <p>3. Assess the effectiveness of the implemented mitigation measures.</p>	<p>1. Discuss with IEC, ET and Contractor on the proposed mitigation measures; and</p> <p>2. Request Contractor to critically review the working methods;</p> <p>3. Make agreement on the mitigation measures to be implemented;</p> <p>4. Assess the effectiveness of the implemented mitigation measures; and</p> <p>5. Consider and instruct, if necessary, the Contractor to slow down or to stop all or part of the marine work until no exceedance of Limit Level.</p>	<p>1. Inform the ER and confirm notification of the non-compliance in writing;</p> <p>2. Rectify unacceptable practice;</p> <p>3. Check all plant and equipment;</p> <p>4. Consider changes of working methods;</p> <p>5. Discuss with ET and IEC and ER and propose mitigation measures to IEC and ER within 3 working days;</p> <p>6. Implement the agreed mitigation measures; and</p> <p>7. As directed by the ER, to slow down or to stop all or part of the marine work or construction activities.</p>

## Event and Action Plan for 24-hour Water Quality Monitoring

Event	Action			
	ET Leader	Contractor	ER	IEC
Action Level				
On Action Level exceedance of turbidity or DO (mg/L) (over a period of 30-minute), or exceedance of ammonia (mg/L) (over a period of 60-minute). Notification is sent to ET, Contractor, ER, EPD, AFCD and WSD automatically via email	<ol style="list-style-type: none"> <li>1. Check data and determine if the exceedance was due to equipment problem. If so, fix the problem within 1 working day. Continue monitoring</li> <li>2. Carry out investigation as soon as possible after identification of exceedance. Check monitoring data (including data from regular water quality), all plant, equipment and Contractor's working methods;</li> <li>3. Report the initial investigation results to the Contractor within 24 hours of identification of exceedance. Advise contractor if exceedance may be due to contractor's construction works.</li> <li>4. Conduct water quality monitoring at the mariculture/ WSD flushing water intake station with exceedance recorded and gradient stations in vicinity within 18 hours of identification of exceedance if the exceedance may be due to the works. Parameters to monitor include DO (mg/L), turbidity and SS.</li> <li>5. Report the monitoring data to the Contractor within 48 hours of identification of exceedance. Advise contractor if exceedance is due to contractor's construction works.</li> <li>6. Discuss mitigation measures with IEC, ER and Contractor within 2 working days of submission of the investigation results.</li> <li>7. Ensure mitigation measures are implemented;</li> <li>8. Closely monitor the concerned 24-hr station.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check all plant and equipment;</li> <li>2. Consider changes of working methods;</li> <li>3. Rectify unacceptable practice;</li> <li>4. Submit the monitoring data and results of the investigation to IEC and ER within 48 hours of the identification of an exceedance Inform EPD, AFCD and WSD of the results;</li> <li>5. Discuss with ET, IEC and ER and propose mitigation measures to IEC and ER within 2 working days of submission of the investigation results;</li> <li>6. Implement the agreed mitigation measures within reasonable time scale</li> </ol>	<ol style="list-style-type: none"> <li>1. Request Contractor to critically review the working methods;</li> <li>2. Discuss with IEC, ET and Contractor on the proposed mitigation measures;</li> <li>3. Ensure remedial measures are properly implemented</li> <li>4. Assess the effectiveness of the implemented mitigation measures</li> </ol>	<ol style="list-style-type: none"> <li>1. Check monitoring data submitted by ET</li> <li>2. Confirm ET assessment if exceedance is due /not due to the works</li> <li>3. Discuss with ET, ER and Contractor on the mitigation measures</li> <li>4. Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly</li> <li>5. Assess the effectiveness of the implemented mitigation measures</li> </ol>
Limit Level				
On Limit Level exceedance of turbidity or DO (mg/L) (over a period of 30-minute or exceedance of ammonia (mg/L) (over a period of 60-minute). Notification is sent to ET, Contractor, ER, EPD, AFCD and	<ol style="list-style-type: none"> <li>1. Check data and determine if the exceedance was due to equipment problem. If so, fix the problem within 1 working day. Continue monitoring</li> <li>2. Carry out investigation as soon as possible after identification of exceedance. Check monitoring data (including data from regular water quality), all plant, equipment and Contractor's working methods;</li> </ol>	<ol style="list-style-type: none"> <li>1. Check all plant and equipment;</li> <li>2. Consider changes of working methods;</li> <li>3. Rectify unacceptable practice;</li> <li>4. Submit the monitoring data and results of the investigation to IEC and ER within 48 hours of the identification of an exceedance Inform EPD, AFCD and WSD of the results;</li> <li>5. Discuss with ET, IEC and ER and propose mitigation measures to IEC and ER within</li> </ol>	<ol style="list-style-type: none"> <li>1. Request Contractor to critically review the working methods;</li> <li>2. Discuss with IEC, ET and Contractor on the proposed mitigation measures;</li> <li>3. Ensure remedial measures are properly implemented</li> <li>4. Assess the effectiveness of the implemented mitigation measures;</li> <li>5. Consider and instruct, if necessary, the Contractor to slow down or to stop all or</li> </ol>	<ol style="list-style-type: none"> <li>1. Check monitoring data submitted by ET</li> <li>2. Confirm ET assessment if exceedance is due /not due to the works</li> <li>3. Discuss with ET, ER and Contractor on the mitigation measures</li> <li>4. Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly</li> <li>5. Assess the effectiveness of the implemented mitigation measures</li> </ol>



Event	Action			
	ET Leader	Contractor	ER	IEC
WSD automatically via email	<p>3. Report the initial investigation results to the Contractor within 24 hours of identification of exceedance. Advise contractor if exceedance may be due to contractor's construction works.</p> <p>4. Conduct water quality monitoring at the all monitoring stations within 18 hours of identification of exceedance if the exceedance may be due to the works. Parameters to monitor include DO (mg/L), turbidity and SS.</p> <p>5. Report the monitoring data to the Contractor within 48 hours of identification of exceedance. Advise contractor if exceedance is due to contractor's construction works.</p> <p>6. Discuss mitigation measures with IEC, ER and Contractor within 2 working days of submission of the investigation results.</p> <p>7. Ensure mitigation measures are implemented;</p> <p>8. Closely monitor the concerned 24-hr station.</p>	<p>2 working days of submission of the investigation results;</p> <p>6. Implement the agreed mitigation measures within reasonable time scale;</p> <p>7. As directed by ER, to slow down or stop all or part of the marine work or construction activities.</p>	<p>part of the marine work until no exceedance of Limit Level.</p>	

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**MaterialLab**

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Report No.: 0394/13/ED/0358

Appendix I

Details of Notification of Exceedances

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**MaterialLab**

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Report No.: 0394/13/ED/0358

Routine Impact Monitoring

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**Interim Notification of Environmental Quality Limits Exceedances  
Impact Water Quality Monitoring**

Incident Report on Action Level or Limit Level Non-compliance

Reference No.:	20170425 /IM/SR2							
Project:	CV/2013/04 - Providing Sufficient Water Depth for Kwai Tsing Container Basin and its Approach Channel							
Date:	25/04/2017							
Time: (hh:mm)	Mid-Flood:	15:01	Mid-Ebb:	12:35				
Monitoring Location:	SR2 - Casam, Gazetted Beach							
Action Level / Limit Level:	DO (S&M):	4.68/4.62 mg/L;	NH3-N:	0.21/0.24 mg/L ;				
	DO (B):	4.11/4.04 mg/L;	Turbidity:	10.8/15.0 NTU;				
	TSS :	12 / 19 mg/L		/ mg/L				
Measured Level of exceeded parameters: (tick / fill in / circle as appropriate)	Mid-Flood:		Mid-Ebb:					
	DO (S&M):	AL / LL	DO (B):	AL / LL	DO (S&M):	AL / LL	DO (B):	AL / LL
	Turbidity:	AL / LL	NH3-N(In-situ):	AL / LL	Turbidity:	AL / LL	NH3-N(In-situ):	AL / LL
	NH3-N(Lab):	AL / LL	TSS :	AL / LL	NH3-N(Lab):	AL / LL	TSS :	15 <u>AL</u> / LL
Action taken / to be taken: (tick / fill in as appropriate)	Inspection: <input type="checkbox"/> Silt curtain in proper condition <input type="checkbox"/> Dredging rate within accepted rate <input checked="" type="checkbox"/> Monitoring equipment is checked and confirmed without problem. <input type="checkbox"/> Others: _____							
Possible reason for Action or Limit Level Non-compliance: (tick / fill in as appropriate)		DO(S&M)	DO(B)	Turbidity	NH3-N	TSS		
	Findings / Evidences							
	<input checked="" type="checkbox"/> Station at Upstream Location at ME					✓		
	<input type="checkbox"/> Upstream Control Station ( ) exceeded AL/LL							
<input type="checkbox"/> No increasing / decreasing (for DO) trend across the Project at MF	Upstream:	( ) mg/L	Upstream:	( ) mg/L	Upstream:	( ) NTU	Upstream:	( ) mg/L
	Downstream:	( ) mg/L	Downstream:	( ) mg/L	Downstream:	( ) NTU	Downstream:	( ) mg/L
<input checked="" type="checkbox"/> No Dredging Works carried out.								
Conclusion	<input checked="" type="checkbox"/> Due to change or/and influence of ambient condition in the vicinity, i.e. not Project related.					✓		
Remarks: (tick / fill in as appropriate)	Repeat In-situ measurement was done.							
	Mid-Flood:	DO (S&M):	_____	DO (B):	_____	Turbidity:	_____	
		NH3-N:	_____		_____		_____	
	Mid-Ebb:	DO (S&M):	_____	DO (B):	_____	Turbidity:	_____	
	NH3-N:	_____		_____		_____		
<input type="checkbox"/> _____								
_____								
_____								
_____								

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**Materialab**

	DO(S&M)	DO(B)	Turbidity	NH3-N	
Others					

Prepared by: Wingo SoSignature: Date (dd/mm/yyyy): 06/06/2017

Certified by: Colin Yung

Designation: Environmental Team Leader

Signature: Date (dd/mm/yy): 06/06/2017**Notes:**

- Abbreviation:

AL – Action Level

DO (B) – Dissolved Oxygen (Bottom)

DO (S&amp;M) – Dissolved Oxygen (Surface &amp; Middle)

LL – Limit Level

ME – Mid Ebb

MF – Mid Flood

NH3-N (In-situ) – Ammoniacal Nitrogen (In-situ results)

NH3-N (Lab) – Ammoniacal Nitrogen (Laboratory results)

TIN (In-situ) – Total Inorganic Nitrogen (In-situ results)

TIN (Lab) – Total Inorganic Nitrogen (Laboratory results)

TSS – Total Suspended Solids

- Wet Season: April to October; Dry Season: November to March

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**Interim Notification of Environmental Quality Limits Exceedances  
Impact Water Quality Monitoring**

Incident Report on Action Level or Limit Level Non-compliance

Reference No.:	20170425 /IM/SR3						
Project:	CV/2013/04 - Providing Sufficient Water Depth for Kwai Tsing Container Basin and its Approach Channel						
Date:	25/04/2017						
Time: (hh:mm)	Mid-Flood: 15:33		Mid-Ebb: 12:04				
Monitoring Location:	SR3 -Approach, Gazetted Beach						
Action Level / Limit Level:	DO (S&M): 4.68/4.62 mg/L; DO (B): 4.11/4.04 mg/L; TSS : 12 / 19 mg/L		NH3-N: 0.21/0.24 mg/L ; Turbidity: 10.8/15.0 NTU; : / mg/L				
Measured Level of exceeded parameters (tick / fill in / circle as appropriate)	Mid-Flood:			Mid-Ebb:			
	DO (S&M):	AL / LL	DO (B):	AL / LL	DO (S&M):	AL / LL	
	Turbidity:	AL / LL	NH3-N(In-situ):	AL / LL	Turbidity:	AL / LL	
	NH3-N(Lab):	AL / LL	TSS :	AL / LL	NH3-N(Lab):	AL / LL	
Action taken / to be taken: (tick / fill in as appropriate)	Inspection:						
	<input type="checkbox"/> Silt curtain in proper condition <input type="checkbox"/> Dredging rate within accepted rate <input checked="" type="checkbox"/> Monitoring equipment is checked and confirmed without problem. <input type="checkbox"/> Others: _____						
Possible reason for Action or Limit Level Non-compliance: (tick / fill in as appropriate)	<input checked="" type="checkbox"/> Station at Upstream Location at ME	DO(S&M)	DO(B)	Turbidity	NH3-N	TSS	
	<input type="checkbox"/> Upstream Control Station ( ) exceeded AL/LL						
	<input type="checkbox"/> No increasing / decreasing (for DO) trend across the Project at MF	Upstream:	( )mg/L	Upstream:	( )mg/L	Upstream:	( )NTU
		Downstream:	( )mg/L	Downstream:	( )mg/L	Downstream:	( )NTU
<input checked="" type="checkbox"/> No Dredging Works carried out.							
Conclusion	<input checked="" type="checkbox"/> Due to change or/and influence of ambient condition in the vicinity, i.e. not Project related.						
Remarks: (tick / fill in as appropriate)	Repeat In-situ measurement was done.						
	Mid-Flood:	DO (S&M):	DO (B):	Turbidity:			
		NH3-N:	:	:			
	Mid-Ebb:	DO (S&M):	DO (B):	Turbidity:			
	NH3-N:	:	:				
<input type="checkbox"/> _____ _____ _____ _____							

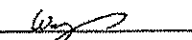
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**MaterialLab**

	DO(S&M)	DO(B)	Turbidity	NH3-N	
Others					

Prepared by: Wingo SoSignature: Date (dd/mm/yyyy): 06/06/2017

Certified by: Colin Yung

Designation: Environmental Team Leader

Signature: Date (dd/mm/yy): 06/06/2017

## Notes:

- Abbreviation:

AL – Action Level

DO (B) – Dissolved Oxygen (Bottom)

DO (S&amp;M) – Dissolved Oxygen (Surface &amp; Middle)

LL – Limit Level

ME – Mid Ebb

MF – Mid Flood

NH3-N (In-situ) – Ammoniacal Nitrogen (In-situ results)

NH3-N (Lab) – Ammoniacal Nitrogen (Laboratory results)

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TSS – Total Suspended Solids

- Wet Season: April to October; Dry Season: November to March

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**Interim Notification of Environmental Quality Limits Exceedances  
Impact Water Quality Monitoring**

Incident Report on Action Level or Limit Level Non-compliance

Reference No.:	20170425 /IM/SR4						
Project:	CVI/2013/04 - Providing Sufficient Water Depth for Kwai Tsing Container Basin and its Approach Channel						
Date:	25/04/2017						
Time: (hh:mm)	Mid-Flood:	15:50	Mid-Ebb:	11:50			
Monitoring Location:	SR4 - Tsuen Wan, WSD Flushing Water Intake						
Action Level / Limit Level:	DO (S&M):	2/2 mg/L;	NH3-N:	<1/<1 mg/L ;			
	DO (B):	2/2 mg/L;	Turbidity:	<10/<10 NTU;			
	Total Suspended Solids :	<10/<10 mg/L _____ : _____ / _____ mg/L					
Measured Level of exceeded parameters: (tick / fill in / circle as appropriate)	Mid-Flood:	Mid-Ebb:					
	DO (S&M):	_____ AL / LL	DO (B):	_____ AL / LL	DO (S&M):	_____ AL / LL	
	Turbidity:	_____ AL / LL	NH3-N(In-situ):	_____ AL / LL	Turbidity:	_____ AL / LL	
	NH3-N(Lab):	_____ AL / LL	TSS :	_____ AL / LL	NH3-N(Lab):	_____ AL / LL	
					TSS : 10 AL / LL		
Action taken / to be taken: (tick / fill in as appropriate)	Inspection:						
	<input type="checkbox"/> Silt curtain in proper condition <input checked="" type="checkbox"/> Dredging rate within accepted rate <input checked="" type="checkbox"/> Monitoring equipment is checked and confirmed without problem. <input type="checkbox"/> Others: _____						
Possible reason for Action or Limit Level Non-compliance: (tick / fill in as appropriate)		DO(S&M)	DO(B)	Turbidity	NH3-N	TSS	
	Findings / Evidences						
	<input checked="" type="checkbox"/> Station at Upstream Location at ME						
	<input type="checkbox"/> Upstream Control Station ( ) exceeded AL/LL						
<input type="checkbox"/> No increasing / decreasing (for DO) trend across the Project at MF	Upstream:	_____ ( )mg/L	Upstream:	_____ ( )mg/L	Upstream:	_____ ( )mg/L	
	Downstream:	_____ ( )mg/L	Downstream:	_____ ( )mg/L	Downstream:	_____ ( )mg/L	
<input checked="" type="checkbox"/> No Dredging Works carried out.							
Conclusion	<input checked="" type="checkbox"/> Due to change or/and influence of ambient condition in the vicinity, i.e. not Project related.						
Remarks: (tick / fill in as appropriate)	Repeat In-situ measurement was done.						
	Mid-Flood:	DO (S&M):	_____	DO (B):	_____	Turbidity:	_____
		NH3-N:	_____		_____		_____
	Mid-Ebb:	DO (S&M):	_____	DO (B):	_____	Turbidity:	_____
		NH3-N:	_____		_____		_____
	<input type="checkbox"/> _____						
	_____						
	_____						
	_____						



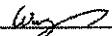
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**MaterialLab**

	DO(S&M)	DO(B)	Turbidity	NH3-N	
Others					

Prepared by: Wingo SoSignature: Date (dd/mm/yyyy): 06/06/2017

Certified by: Colin Yung

Designation: Environmental Team Leader

Signature: Date (dd/mm/yy): 06/06/2017**Notes:**

- Abbreviation:

AL – Action Level

DO (B) – Dissolved Oxygen (Bottom)

DO (S&amp;M) – Dissolved Oxygen (Surface &amp; Middle)

LL – Limit Level

ME – Mid Ebb

MF – Mid Flood

NH3-N (In-situ) – Ammoniacal Nitrogen (In-situ results)

NH3-N (Lab) – Ammoniacal Nitrogen (Laboratory results)

TIN (In-situ) – Total Inorganic Nitrogen (In-situ results)

TIN (Lab) – Total Inorganic Nitrogen (Laboratory results)

TSS – Total Suspended Solids

- Wet Season: April to October; Dry Season: November to March

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**Interim Notification of Environmental Quality Limits Exceedances  
Impact Water Quality Monitoring**

Incident Report on Action Level or Limit Level Non-compliance

Reference No.:	20170425 /IM/SR5					
Project:	CV/2013/04 - Providing Sufficient Water Depth for Kwai Tsing Container Basin and its Approach Channel					
Date:	25/04/2017					
Time: (hh:mm)	Mid-Flood: 14:48	Mid-Ebb: 12:51				
Monitoring Location:	SR5 - Ma Wan FCZ					
Action Level / Limit Level:	DO (S&M): 5/5 mg/L; DO (B): 4.11/4.04 mg/L; TSS : 12 / 19 mg/L	Turbidity: 10.8/15.0 NTU; TIN : 0.45/0.50 (wet season) or 0.36/0.39 (dry season) mg/L				
Measured Level of exceeded parameters: (tick / fill in / circle as appropriate)	Mid-Flood:		Mid-Ebb:			
	DO (S&M): _____ AL / LL	DO (B): _____ AL / LL	DO (S&M): _____ AL / LL	DO (B): _____ AL / LL		
	Turbidity: _____ AL / LL	TIN(In-situ): 0.51 AL / (L)	Turbidity: _____ AL / LL	TIN(In-situ): 0.53 AL / (L)		
	TIN(Lab): 0.51 AL / (L)	TSS : _____ AL / LL	TIN(Lab): 0.52 AL / (L)	TSS : 14 (A) / LL		
Action taken / to be taken: (tick / fill in as appropriate)	Inspection: <input type="checkbox"/> Silt curtain in proper condition <input checked="" type="checkbox"/> Dredging rate within accepted rate <input checked="" type="checkbox"/> Monitoring equipment is checked and confirmed without problem. <input type="checkbox"/> Others: _____					
Possible reason for Action or Limit Level Non-compliance: (tick / fill in as appropriate)		DO(S&M)	DO(B)	TSS	TIN (In-situ)	TIN (Lab)
	Findings / Evidences					
	<input checked="" type="checkbox"/> Station at Upstream Location at ME			✓	✓	✓
	<input type="checkbox"/> Upstream Control Station (or gradient station) exceeded AL/LL					
	<input checked="" type="checkbox"/> No increasing trend towards the Project at MF:	Upstream: _____ ( ) mg/L Downstream: _____ ( ) mg/L	Upstream: _____ ( ) mg/L Downstream: _____ ( ) mg/L	Upstream: _____ ( ) NTU Downstream: _____ ( ) NTU	Downstream: 0.34mg/L (G2) Downstream: 0.50mg/L (C1A)	Downstream: 0.35mg/L (G2) Downstream: 0.50mg/L (C1A)
<input checked="" type="checkbox"/> No Dredging Works carried out.						
Conclusion	<input checked="" type="checkbox"/> Due to change or/and influence of ambient condition in the vicinity, i.e. not Project related.					
Remarks: (tick / fill in as appropriate)	Repeat In-situ measurement was done.					
	Mid-Flood:	DO (S&M): _____ TIN: 0.51	DO (B): _____	Turbidity: _____		
	Mid-Ebb:	DO (S&M): _____ TIN: 0.53	DO (B): _____	Turbidity: _____		
	<input type="checkbox"/> _____ _____ _____ _____					

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	DO(S&M)	DO(B)	Turbidity	TIN (In-situ)	TIN (Lab)
Others					

Prepared by: Wingo So

Signature:

Date (dd/mm/yyyy): 06/06/2017

Certified by: Colin Yung

Designation: Environmental Team Leader

Signature:

Date (dd/mm/yy): 06/06/2017

**Notes:**

- Abbreviation:

AL – Action Level

DO (B) – Dissolved Oxygen (Bottom)

DO (S&M) – Dissolved Oxygen (Surface & Middle)

LL – Limit Level

ME – Mid Ebb

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NH3-N (Lab) – Ammoniacal Nitrogen (Laboratory results)

TIN (In-situ) – Total Inorganic Nitrogen (In-situ results)

TIN (Lab) – Total Inorganic Nitrogen (Laboratory results)

TSS – Total Suspended Solids

- Wet Season: April to October; Dry Season: November to March

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**Interim Notification of Environmental Quality Limits Exceedances  
Impact Water Quality Monitoring**

Incident Report on Action Level or Limit Level Non-compliance

Reference No.:	20170427 /IM/SR5							
Project:	CV/2013/04 - Providing Sufficient Water Depth for Kwai Tsing Container Basin and Its Approach Channel							
Date:	27/04/2017							
Time: (hh:mm)	Mid-Flood: 09:22		Mid-Ebb: 10:18					
Monitoring Location:	SR5 - Ma Wan FCZ							
Action Level / Limit Level:	DO (S&M): 5/5 mg/L; DO (B): 4.11/4.04 mg/L; TSS : 12 / 19 mg/L		Turbidity: 10.8/15.0 NTU; TIN 0.45/0.50 <sub>(wet season)</sub> or 0.36/0.39 <sub>(dry season)</sub> mg/L					
Measured Level of exceeded parameters: (tick / fill in / circle as appropriate)	Mid-Flood:		Mid-Ebb:					
	DO (S&M):	AL / LL	DO (B):	AL / LL	DO (S&M):	AL / LL	DO (B):	AL / LL
	Turbidity:	AL / LL	TIN(In-situ):	0.52 AL / (L)	Turbidity:	AL / LL	TIN(In-situ):	0.51 AL / (L)
Action taken / to be taken: (tick / fill in as appropriate)	Inspection:							
	<input type="checkbox"/> Silt curtain in proper condition <input type="checkbox"/> Dredging rate within accepted rate <input checked="" type="checkbox"/> Monitoring equipment is checked and confirmed without problem. <input type="checkbox"/> Others: _____							
Possible reason for Action or Limit Level Non-compliance: (tick / fill in as appropriate)		DO(S&M)	DO(B)	Turbidity	TIN (In-situ)	TIN (Lab)		
	Findings / Evidences							
	<input checked="" type="checkbox"/> Station at Upstream Location at ME				✓	✓		
	<input checked="" type="checkbox"/> Upstream Control Station (or gradient station) exceeded AL/LL				MF:0.73mg/L(C2A)	MF:0.72mg/L(C2A)		
<input type="checkbox"/> No increasing trend towards the Project at MF:	Upstream:	( )mg/L	Upstream:	( )mg/L	Upstream:	( )mg/L		
	Downstream:	( )mg/L	Downstream:	( )mg/L	Downstream:	( )mg/L		
<input checked="" type="checkbox"/> No Dredging Works carried out.								
Conclusion	<input checked="" type="checkbox"/> Due to change or/and influence of ambient condition in the vicinity, i.e. not Project related.				✓	✓		
	Repeat In-situ measurement was done.							
Remarks: (tick / fill in as appropriate)	Mid-Flood:	DO (S&M):	TIN: 0.52	DO (B):	Turbidity:			
	Mid-Ebb:	DO (S&M):	TIN: 0.51	DO (B):	Turbidity:			
	<input type="checkbox"/>							
	_____							


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**MaterialLab**

	DO(S&M)	DO(B)	Turbidity	TIN (In-situ)	TIN (Lab)
Others					

Prepared by: Wingo SoSignature: Date (dd/mm/yyyy): 06/06/2017

Certified by: Colin Yung

Designation: Environmental Team Leader

Signature: Date (dd/mm/yy): 06/06/2017

## Notes:

- Abbreviation:

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DO (B) – Dissolved Oxygen (Bottom)

DO (S&amp;M) – Dissolved Oxygen (Surface &amp; Middle)

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TIN (Lab) – Total Inorganic Nitrogen (Laboratory results)

TSS – Total Suspended Solids

- Wet Season: April to October; Dry Season: November to March

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**Interim Notification of Environmental Quality Limits Exceedances  
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Incident Report on Action Level or Limit Level Non-compliance

Reference No.:	20170427 /IM/SR12						
Project:	CV/2013/04 - Providing Sufficient Water Depth for Kwai Tsing Container Basin and its Approach Channel						
Date:	27/04/2017						
Time: (hh:mm)	Mid-Flood:	07:42	Mid-Ebb:	11:58			
Monitoring Location:	SR12 – Tsing Yi, WSD Flushing Water Intake						
Action Level / Limit Level:	DO (S&M):	2/2 mg/L;	NH3-N:	<1/<1 mg/L ;			
	DO (B):	2/2 mg/L;	Turbidity:	<10/<10 NTU;			
	Total Suspended Solids :	<10/<10 mg/L		_____ : _____ / _____ mg/L			
Measured Level of exceeded parameters: (tick / fill in / circle as appropriate)	Mid-Flood:				Mid-Ebb:		
	DO (S&M):	_____ AL / LL	DO (B):	_____ AL / LL	DO (S&M):	_____ AL / LL	
	Turbidity:	_____ AL / LL	NH3-N(In-situ):	_____ AL / LL	Turbidity:	_____ AL / LL	
	NH3-N(Lab):	_____ AL / LL	_____ :	_____ AL / LL	NH3-N(Lab):	_____ AL / LL	
					TSS : 10 AL/LL		
Action taken / to be taken: (tick / fill in as appropriate)	Inspection: <input type="checkbox"/> Silt curtain in proper condition <input type="checkbox"/> Dredging rate within accepted rate <input checked="" type="checkbox"/> Monitoring equipment is checked and confirmed without problem. <input type="checkbox"/> Others: _____						
Possible reason for Action or Limit Level Non-compliance: (tick / fill in as appropriate)		DO(S&M)	DO(B)	Turbidity	NH3-N	TSS	
		Findings / Evidences					
	<input checked="" type="checkbox"/> Station at Upstream Location at ME					✓	
	<input type="checkbox"/> Upstream Control Station ( ) exceeded AL/LL						
<input type="checkbox"/> No increasing / decreasing (for DO) trend across the Project at MF	Upstream:	_____ ( ) mg/L	Upstream:	_____ ( ) mg/L	Upstream:	_____ ( ) NTU	
	Downstream:	_____ ( ) mg/L	Downstream:	_____ ( ) mg/L	Downstream:	_____ ( ) NTU	
<input checked="" type="checkbox"/> No Dredging Works carried out.							
Conclusion	<input checked="" type="checkbox"/> Due to change or/and influence of ambient condition in the vicinity, i.e. not Project related.						
Remarks: (tick / fill in as appropriate)	Repeat In-situ measurement was done.						
	Mid-Flood:	DO (S&M):	_____	DO (B):	_____	Turbidity:	_____
		NH3-N:	_____		_____		_____
	Mid-Ebb:	DO (S&M):	_____	DO (B):	_____	Turbidity:	_____
	NH3-N:	_____		_____		_____	
	<input type="checkbox"/> _____ _____ _____ _____						

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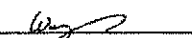
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**MaterialLab**

	DO(S&M)	DO(B)	Turbidity	NH3-N	
Others					

Prepared by: Wingo So

Signature: 

Date (dd/mm/yyyy): 06/06/2017

Certified by: Colin Yung

Designation: Environmental Team Leader

Signature: 

Date (dd/mm/yy): 06/06/2017

**Notes:**

- Abbreviation:

AL – Action Level

DO (B) – Dissolved Oxygen (Bottom)

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TIN (Lab) – Total Inorganic Nitrogen (Laboratory results)

TSS – Total Suspended Solids

- Wet Season: April to October; Dry Season: November to March

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**Interim Notification of Environmental Quality Limits Exceedances  
Impact Water Quality Monitoring**

Incident Report on Action Level or Limit Level Non-compliance

Reference No.:	20170429 /IM/SR3					
Project:	CV/2013/04 - Providing Sufficient Water Depth for Kwai Tsing Container Basin and its Approach Channel					
Date:	29/04/2017					
Time: (hh:mm)	Mid-Flood: 08:50		Mid-Ebb: 12:02			
Monitoring Location:	SR3 - Approach, Gazetted Beach					
Action Level / Limit Level:	DO (S&M): 4.68/4.62 mg/L; DO (B): 4.11/4.04 mg/L; TSS : 12 / 19 mg/L		NH3-N: 0.21/0.24 mg/L ; Turbidity: 10.8/15.0 NTU; : / mg/L			
Measured Level of exceeded parameters (tick / fill in / circle as appropriate)	Mid-Flood:			Mid-Ebb:		
	DO (S&M):	AL / LL	DO (B):	AL / LL	DO (S&M):	AL / LL
	Turbidity:	AL / LL	NH3-N(In-situ):	0.22 (AL) / LL	Turbidity:	AL / LL
	NH3-N(Lab):	0.22 (AL) / LL	TSS :	AL / LL	NH3-N(Lab):	AL / LL
Action taken / to be taken: (tick / fill in as appropriate)	Inspection:					
	<input checked="" type="checkbox"/> Silt curtain in proper condition <input checked="" type="checkbox"/> Dredging rate within accepted rate <input type="checkbox"/> Monitoring equipment is checked and confirmed without problem. <input type="checkbox"/> Others: _____					
Possible reason for Action or Limit Level Non-compliance: (tick / fill in as appropriate)	<input type="checkbox"/>	DO(S&M)	DO(B)	Turbidity	NH3-N (In-situ)	NH3-N(Lab)
	<input type="checkbox"/>	Station at Upstream Location at ME				
	<input checked="" type="checkbox"/>	Upstream Control Station (or gradient station) exceeded AL/LL			MF:0.45mg/L(C2A)	MF:0.46mg/L(C2A)
	<input type="checkbox"/>	No increasing / decreasing (for DO) trend across the Project at MF	Upstream: ( )mg/L Downstream: ( )mg/L	Upstream: ( )mg/L Downstream: ( )mg/L	Upstream: ( )NTU Downstream: ( )NTU	Upstream: ( )mg/L Downstream: ( )mg/L
Conclusion	<input type="checkbox"/>	No Dredging Works carried out.				
	<input checked="" type="checkbox"/>	Due to change or/and influence of ambient condition in the vicinity, i.e. not Project related.			✓	✓
Remarks: (tick / fill in as appropriate)	Repeat In-situ measurement was done.					
	Mid-Flood:	DO (S&M): NH3-N: 0.22	DO (B):		Turbidity:	
	Mid-Ebb:	DO (S&M):	DO (B):		Turbidity:	
		NH3-N:				
	<input checked="" type="checkbox"/> <b>Dredging works conducted at Zone2B2 of the Project.</b>					
	<b>According to Contractor, dredged rate (in-situ) at Zone2B2 was 385m3/day.</b>					
	_____					
	_____					
	_____					



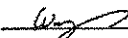
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**Materialab**

	DO(S&M)	DO(B)	Turbidity	NH3-N	
Others					

Prepared by: Wingo SoSignature: Date (dd/mm/yyyy): 06/06/2017

Certified by: Colin Yung

Designation: Environmental Team Leader

Signature: Date (dd/mm/yyyy): 06/06/2017**Notes:**

- Abbreviation:

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TIN (Lab) – Total Inorganic Nitrogen (Laboratory results)

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- Wet Season: April to October; Dry Season: November to March

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**Interim Notification of Environmental Quality Limits Exceedances  
Impact Water Quality Monitoring**

Incident Report on Action Level or Limit Level Non-compliance

Reference No.:	20170429 /IM/SR4					
Project:	CV/2013/04 - Providing Sufficient Water Depth for Kwai Tsing Container Basin and its Approach Channel					
Date:	29/04/2017					
Time: (hh:mm)	Mid-Flood:	08:30	Mid-Ebb:	12:19		
Monitoring Location:	SR4 – Tsuen Wan, WSD Flushing Water Intake					
Action Level / Limit Level:	DO (S&M):	2/2 mg/L;	NH3-N:	<1/<1 mg/L ;		
	DO (B):	2/2 mg/L;	Turbidity:	<10/<10 NTU;		
	Total Suspended Solids :	<10/<10 mg/L				
Measured Level of exceeded parameters: (tick / fill in / circle as appropriate)	Mid-Flood:	Mid-Ebb:				
	DO (S&M):	AL / LL	DO (B):	AL / LL	DO (S&M): AL / LL DO (B): AL / LL	
	Turbidity:	AL / LL	NH3-N(In-situ):	AL / LL	Turbidity: AL / LL NH3-N(In-situ): AL / LL	
	NH3-N(Lab):	AL / LL	TSS :	AL / LL	NH3-N(Lab): AL / LL TSS : 10 AL/LL	
Action taken / to be taken: (tick / fill in as appropriate)	Inspection: <input checked="" type="checkbox"/> Silt curtain in proper condition <input checked="" type="checkbox"/> Dredging rate within accepted rate <input checked="" type="checkbox"/> Monitoring equipment is checked and confirmed without problem. <input type="checkbox"/> Others: _____					
Possible reason for Action or Limit Level Non-compliance: (tick / fill in as appropriate)		DO(S&M)	DO(B)	Turbidity	NH3-N	TSS
	Findings / Evidences					
	<input checked="" type="checkbox"/> Station at Upstream Location at ME					
	<input type="checkbox"/> Upstream Control Station ( ) exceeded AL/LL					
<input type="checkbox"/> No increasing / decreasing (for DO) trend across the Project at MF	Upstream:	( )mg/L	Upstream:	( )mg/L	Upstream:	( )mg/L
	Downstream:	( )mg/L	Downstream:	( )mg/L	Downstream:	( )mg/L
<input type="checkbox"/> No Dredging Works carried out.						
Conclusion	<input checked="" type="checkbox"/> Due to change or/and influence of ambient condition in the vicinity, i.e. not Project related.					
Remarks: (tick / fill in as appropriate)	Repeat In-situ measurement was done.					
	Mid-Flood:	DO (S&M):	DO (B):	Turbidity:		
	Mid-Ebb:	DO (S&M):	DO (B):	Turbidity:		
		NH3-N:				
		NH3-N:				
	<input checked="" type="checkbox"/> Dredging works conducted at Zone2B2 of the Project. According to Contractor, dredged rate (in-situ) at Zone2B2 was 385m3/day.					

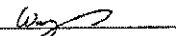
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**Materialab**

	DO(S&M)	DO(B)	Turbidity	NH3-N	
Others					

Prepared by: Wingo SoSignature: Date (dd/mm/yyyy): 06/06/2017

Certified by: Colin Yung

Designation: Environmental Team Leader

Signature: Date (dd/mm/yy): 06/06/2017**Notes:**

- Abbreviation:

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- Wet Season: April to October; Dry Season: November to March

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**Interim Notification of Environmental Quality Limits Exceedances  
Impact Water Quality Monitoring**

**Incident Report on Action Level or Limit Level Non-compliance**

Reference No.:	20170429 /M/SR5							
Project:	CV/2013/04 - Providing Sufficient Water Depth for Kwai Tsing Container Basin and its Approach Channel							
Date:	29/04/2017							
Time: (hh:mm)	Mid-Flood: 09:45		Mid-Ebb: 11:16					
Monitoring Location:	SR5 - Ma Wan FCZ							
Action Level / Limit Level:	DO (S&M): 5/5 mg/L; DO (B): 4.11/4.04 mg/L; TSS : 12 / 19 mg/L		Turbidity: 10.8/15.0 NTU; TIN : 0.45/0.50 (wet season) Or 0.36/0.39 (dry season) mg/L					
Measured Level of exceeded parameters: (tick / fill in / circle as appropriate)	Mid-Flood:		Mid-Ebb:					
	DO (S&M):	AL / LL	DO (B):	AL / LL	DO (S&M):	AL / LL	DO (B):	AL / LL
	Turbidity:	AL / LL	TIN (in-situ):	0.55 AL / (L)	Turbidity:	AL / LL	TIN (in-situ):	0.52 AL / (L)
	TIN (Lab):	0.54 AL / (L)	TSS :	AL / LL	TIN (Lab):	0.53 AL / (L)	TSS :	13 (A) / LL
Action taken / to be taken: (tick / fill in as appropriate)	Inspection: <input checked="" type="checkbox"/> Silt curtain in proper condition <input checked="" type="checkbox"/> Dredging rate within accepted rate <input checked="" type="checkbox"/> Monitoring equipment is checked and confirmed without problem. <input type="checkbox"/> Others: _____							
Possible reason for Action or Limit Level Non-compliance: (tick / fill in as appropriate)		DO(S&M)	DO(B)	TSS	TIN (In-situ)	TIN (Lab)		
	Findings / Evidences							
	<input checked="" type="checkbox"/> Station at Upstream Location at ME			✓	✓	✓		
	<input checked="" type="checkbox"/> Upstream Control Station (or gradient station) exceeded AL/LL				MF:0.76mg/L(C2A)	MF:0.75mg/L(C2A)		
<input type="checkbox"/> No increasing trend towards the Project at MF:	Upstream: _____ ( ) mg/L	Upstream: _____ ( ) mg/L	Upstream: _____ ( ) NTU	Upstream: _____ ( ) mg/L				
	Downstream: _____ ( ) mg/L	Downstream: _____ ( ) mg/L	Downstream: _____ ( ) NTU	Downstream: _____ ( ) mg/L				
<input type="checkbox"/> No Dredging Works carried out.								
Conclusion	<input checked="" type="checkbox"/> Due to change or/and influence of ambient condition in the vicinity, i.e. not Project related.							
Remarks: (tick / fill in as appropriate)	Repeat In-situ measurement was done. Mid-Flood: DO (S&M): _____ DO (B): _____ Turbidity: _____ TIN: 0.55 _____ Mid-Ebb: DO (S&M): _____ DO (B): _____ Turbidity: _____ TIN: 0.52 _____ <input checked="" type="checkbox"/> <b>Dredging works conducted at Zone2B2 of the Project.</b> According to Contractor, dredged rate (in-situ) at Zone2B2 was <u>385m3/day.</u>							

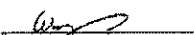
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**MaterialLab**

	DO(S&M)	DO(B)	Turbidity	TIN (In-situ)	TIN (Lab)
Others					

Prepared by: Wingo SoSignature: Date (dd/mm/yyyy): 06/06/2017

Certified by: Colin Yung

Designation: Environmental Team Leader

Signature: Date (dd/mm/yy): 06/06/2017**Notes:**

- Abbreviation:

AL – Action Level

DO (B) – Dissolved Oxygen (Bottom)

DO (S&amp;M) – Dissolved Oxygen (Surface &amp; Middle)

LL – Limit Level

ME – Mid Ebb

MF – Mid Flood

NH3-N (In-situ) – Ammoniacal Nitrogen (In-situ results)

NH3-N (Lab) – Ammoniacal Nitrogen (Laboratory results)

TIN (In-situ) – Total Inorganic Nitrogen (In-situ results)

TIN (Lab) – Total Inorganic Nitrogen (Laboratory results)

TSS – Total Suspended Solids

- Wet Season: April to October; Dry Season: November to March

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**Interim Notification of Environmental Quality Limits Exceedances  
Impact Water Quality Monitoring**

Incident Report on Action Level or Limit Level Non-compliance

Reference No.:	20170429 /IM/SR12					
Project:	CV/2013/04 - Providing Sufficient Water Depth for Kwai Tsing Container Basin and its Approach Channel					
Date:	29/04/2017					
Time: (hh:mm)	Mid-Flood:	08:15	Mid-Ebb:	12:39		
Monitoring Location:	SR12 – Tsing Yi, WSD Flushing Water Intake					
Action Level / Limit Level:	DO (S&M):	2/2 mg/L;	NH3-N:	<1/<1 mg/L ;		
	DO (B):	2/2 mg/L;	Turbidity:	<10/<10 NTU;		
	Total Suspended Solids :	<10/<10 mg/L		_____ : _____ / _____ mg/L		
Measured Level of exceeded parameters: (tick / fill in / circle as appropriate)	Mid-Flood:		Mid-Ebb:			
	DO (S&M):	_____ AL / LL	DO (B):	_____ AL / LL	DO (S&M):	_____ AL / LL
	Turbidity:	_____ AL / LL	NH3-N(In-situ):	_____ AL / LL	Turbidity:	_____ AL / LL
	NH3-N(Lab):	_____ AL / LL	_____ :	_____ AL / LL	NH3-N(Lab):	_____ AL / LL
					TSS : 10 AL / LL	
Action taken / to be taken: (tick / fill in as appropriate)	Inspection: <input checked="" type="checkbox"/> Silt curtain in proper condition <input checked="" type="checkbox"/> Dredging rate within accepted rate <input checked="" type="checkbox"/> Monitoring equipment is checked and confirmed without problem. <input type="checkbox"/> Others: _____					
Possible reason for Action or Limit Level Non-compliance: (tick / fill in as appropriate)		DO(S&M)	DO(B)	Turbidity	NH3-N	TSS
	Findings / Evidences					
	<input checked="" type="checkbox"/> Station at Upstream Location at ME					✓
	<input type="checkbox"/> Upstream Control Station ( ) exceeded AL/LL					
<input type="checkbox"/> No increasing / decreasing (for DO) trend across the Project at MF	Upstream:	_____ ( ) mg/L	Upstream:	_____ ( ) mg/L	Upstream:	_____ ( ) NTU
	Downstream:	_____ ( ) mg/L	Downstream:	_____ ( ) mg/L	Downstream:	_____ ( ) NTU
<input type="checkbox"/> No Dredging Works carried out.						
Conclusion	<input checked="" type="checkbox"/> Due to change or/and influence of ambient condition in the vicinity, i.e. not Project related.					✓
Remarks: (tick / fill in as appropriate)	Repeat In-situ measurement was done. Mid-Flood: DO (S&M): _____ DO (B): _____ Turbidity: _____ NH3-N: _____ Mid-Ebb: DO (S&M): _____ DO (B): _____ Turbidity: _____ NH3-N: _____ <input checked="" type="checkbox"/> <b>Dredging works conducted at Zone2B2 of the Project.</b> <b>According to Contractor, dredged rate (in-situ) at Zone2B2 was 385m3/day.</b>					

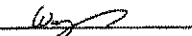
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**MaterialLab**

	DO(S&M)	DO(B)	Turbidity	NH3-N	
Others					

Prepared by: Wingo SoSignature: Date (dd/mm/yyyy): 06/06/2017

Certified by: Colin Yung

Designation: Environmental Team Leader

Signature: Date (dd/mm/yy): 06/06/2017**Notes:**

- Abbreviation:

AL – Action Level

DO (B) – Dissolved Oxygen (Bottom)

DO (S&amp;M) – Dissolved Oxygen (Surface &amp; Middle)

LL – Limit Level

ME – Mid Ebb

MF – Mid Flood

NH3-N (In-situ) – Ammoniacal Nitrogen (In-situ results)

NH3-N (Lab) – Ammoniacal Nitrogen (Laboratory results)

TIN (In-situ) – Total Inorganic Nitrogen (In-situ results)

TIN (Lab) – Total Inorganic Nitrogen (Laboratory results)

TSS – Total Suspended Solids

- Wet Season: April to October; Dry Season: November to March

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**Interim Notification of Environmental Quality Limits Exceedances  
Impact Water Quality Monitoring**

Incident Report on Action Level or Limit Level Non-compliance

Reference No.:	20170502 /IM/SR5							
Project:	CV/2013/04 - Providing Sufficient Water Depth for Kwai Tsing Container Basin and its Approach Channel							
Date:	02/05/2017							
Time: (hh:mm)	Mid-Flood:	13:00	Mid-Ebb:	13:48				
Monitoring Location:	SR5 – Ma Wan FCZ							
Action Level / Limit Level:	DO (S&M):	5/5 mg/L;	Turbidity:	10.8/15.0 NTU;				
	DO (B):	4.11/4.04 mg/L;	TIN	0.45/0.50 (wet season) or 0.36/0.39 (dry season) mg/L				
	TSS	: 12 / 19 mg/L		/ mg/L				
Measured Level of exceeded parameters: (tick / fill in / circle as appropriate)	Mid-Flood:		Mid-Ebb:					
	DO (S&M):	AL / LL	DO (B):	AL / LL	DO (S&M):	AL / LL	DO (B):	AL / LL
	Turbidity:	AL / LL	TIN(In-situ):	0.70 AL / LL	Turbidity:	AL / LL	TIN(In-situ):	0.70 AL / LL
	TIN(Lab):	0.70 AL / LL	TSS :	AL / LL	TIN(Lab):	0.71 AL / LL	TSS :	AL / LL
Action taken / to be taken: (tick / fill in as appropriate)	Inspection: <input type="checkbox"/> Silt curtain in proper condition <input type="checkbox"/> Dredging rate within accepted rate <input checked="" type="checkbox"/> Monitoring equipment is checked and confirmed without problem. <input type="checkbox"/> Others: _____							
Possible reason for Action or Limit Level Non-compliance: (tick / fill in as appropriate)		DO(S&M)	DO(B)	TSS	TIN (In-situ)	TIN (Lab)		
	Findings / Evidences							
	<input checked="" type="checkbox"/> Station at Upstream Location at ME				✓	✓		
	<input checked="" type="checkbox"/> Upstream Control Station (or gradient station) exceeded AL/LL				MF:0.75mg/L(C2A)	MF:0.76mg/L(C2A)		
<input type="checkbox"/> No increasing trend towards the Project at MF:	Upstream: _____ ( )mg/L	Upstream: _____ ( )mg/L	Upstream: _____ ( )NTU	Upstream: _____ ( )mg/L				
	Downstream: _____ ( )mg/L	Downstream: _____ ( )mg/L	Downstream: _____ ( )NTU	Downstream: _____ ( )mg/L				
<input checked="" type="checkbox"/> No Dredging Works carried out.								
Conclusion	<input checked="" type="checkbox"/> Due to change or/and influence of ambient condition in the vicinity, i.e. not Project related.							
Remarks: (tick / fill in as appropriate)	Repeat In-situ measurement was done.							
	Mid-Flood:	DO (S&M):	DO (B):	Turbidity:				
		TIN:	0.70					
	Mid-Ebb:	DO (S&M):	DO (B):	Turbidity:				
		TIN:	0.70					
	<input type="checkbox"/> _____ _____ _____ _____							



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	DO(S&M)	DO(B)	Turbidity	TIN (In-situ)	TIN (Lab)
Others					

Prepared by: Wingo So

Signature:

Date (dd/mm/yyyy): 06/06/2017

Certified by: Colin Yung

Designation: Environmental Team Leader

Signature:

Date (dd/mm/yy): 06/06/2017

**Notes:**

- Abbreviation:
- AL – Action Level
- DO (B) – Dissolved Oxygen (Bottom)
- DO (S&M) – Dissolved Oxygen (Surface & Middle)
- LL – Limit Level
- ME – Mid Ebb
- MF – Mid Flood
- NH3-N (In-situ) – Ammoniacal Nitrogen (In-situ results)
- NH3-N (Lab) – Ammoniacal Nitrogen (Laboratory results)
- TIN (In-situ) – Total Inorganic Nitrogen (In-situ results)
- TIN (Lab) – Total Inorganic Nitrogen (Laboratory results)
- TSS – Total Suspended Solids
- Wet Season: April to October; Dry Season: November to March

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**Interim Notification of Environmental Quality Limits Exceedances  
Impact Water Quality Monitoring**

Incident Report on Action Level or Limit Level Non-compliance

Reference No.:	20170504 /IM/SR5					
Project:	CV/2013/04 - Providing Sufficient Water Depth for Kwai Tsing Container Basin and its Approach Channel					
Date:	04/05/2017					
Time: (hh:mm)	Mid-Flood:	09:38	Mid-Ebb:	08:55		
Monitoring Location:	SR5 – Ma Wan FCZ					
Action Level / Limit Level:	DO (S&M):	5/5 mg/L;	Turbidity:	10.8/15.0 NTU;		
	DO (B):	4.11/4.04 mg/L;	TIN	0.45/0.50(wet season) OR 0.36/0.39(dry season)mg/L		
	TSS :	12 / 19 mg/L				
Measured Level of exceeded parameters: (tick / fill in / circle as appropriate)	Mid-Flood:		Mid-Ebb:			
	DO (S&M):	___ AL / LL	DO (B):	___ AL / LL	DO (S&M):	___ AL / LL
	Turbidity:	___ AL / LL	TIN(In-situ):	0.55 AL / (L)	Turbidity:	___ AL / LL
	TIN(Lab):	0.56 AL / (L)	TSS :	___ AL / LL	TIN(Lab):	0.56 AL / (L)
	TSS :	___ AL / LL			TSS :	___ AL / LL
Action taken / to be taken: (tick / fill in as appropriate)	Inspection: <input type="checkbox"/> Silt curtain in proper condition <input type="checkbox"/> Dredging rate within accepted rate <input checked="" type="checkbox"/> Monitoring equipment is checked and confirmed without problem. <input type="checkbox"/> Others: _____					
Possible reason for Action or Limit Level Non-compliance: (tick / fill in as appropriate)		DO(S&M)	DO(B)	TSS	TIN (In-situ)	TIN (Lab)
	Findings / Evidences					
	<input checked="" type="checkbox"/> Station at Upstream Location at ME				✓	✓
	<input checked="" type="checkbox"/> Upstream Control Station (station) exceeded AL/LL				MF:0.55mg/L(C2A)	MF:0.55mg/L(C2A)
<input type="checkbox"/> No increasing trend towards the Project at MF:	Upstream: _____ ( )mg/L	Upstream: _____ ( )mg/L	Upstream: _____ ( )NTU	Upstream: _____ ( )mg/L		
	Downstream: _____ ( )mg/L	Downstream: _____ ( )mg/L	Downstream: _____ ( )NTU	Downstream: _____ ( )mg/L		
<input checked="" type="checkbox"/> No Dredging Works carried out.						
Conclusion	<input checked="" type="checkbox"/> Due to change or/and influence of ambient condition in the vicinity, i.e. not Project related.					
Remarks: (tick / fill in as appropriate)	Repeat In-situ measurement was done.					
	Mid-Flood:	DO (S&M):	DO (B):	Turbidity:		
		TIN:	0.55			
Mid-Ebb:	DO (S&M):	DO (B):	Turbidity:			
	TIN:	0.56				
	<input type="checkbox"/> _____ _____ _____ _____					


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Email : mcl@fugro.com.hk

**MaterialLab**

	DO(S&M)	DO(B)	Turbidity	TIN (In-situ)	TIN (Lab)
Others					

Prepared by: Wingo SoSignature: Date (dd/mm/yyyy): 06/06/2017

Certified by: Colin Yung

Designation: Environmental Team Leader

Signature: Date (dd/mm/yy): 06/06/2017**Notes:**

- Abbreviation:

AL – Action Level

DO (B) – Dissolved Oxygen (Bottom)

DO (S&amp;M) – Dissolved Oxygen (Surface &amp; Middle)

LL – Limit Level

ME – Mid Ebb

MF – Mid Flood

NH<sub>3</sub>-N (In-situ) – Ammoniacal Nitrogen (In-situ results)NH<sub>3</sub>-N (Lab) – Ammoniacal Nitrogen (Laboratory results)

TIN (In-situ) – Total Inorganic Nitrogen (In-situ results)

TIN (Lab) – Total Inorganic Nitrogen (Laboratory results)

TSS – Total Suspended Solids

- Wet Season: April to October; Dry Season: November to March

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**Interim Notification of Environmental Quality Limits Exceedances  
 Impact Water Quality Monitoring**

Incident Report on Action Level or Limit Level Non-compliance

Reference No.:	20170506 /IM/SR5					
Project:	CV/2013/04 - Providing Sufficient Water Depth for Kwai Tsing Container Basin and its Approach Channel					
Date:	06/05/2017					
Time: (hh:mm)	Mid-Flood: 09:38		Mid-Ebb: 08:55			
Monitoring Location:	SR5 - Ma Wan FCZ					
Action Level / Limit Level:	DO (S&M): 5/5 mg/L; DO (B): 4.11/4.04 mg/L; TSS : 12 / 19 mg/L		Turbidity: 10.8/15.0 NTU; TIN : 0.45/0.50 (wet season) or 0.36/0.39 (dry season) mg/L			
Measured Level of exceeded parameters: (tick / fill in / circle as appropriate)	Mid-Flood:		Mid-Ebb:			
	DO (S&M): _____ AL / LL	DO (B): _____ AL / LL	DO (S&M): _____ AL / LL	DO (B): _____ AL / LL		
	Turbidity: _____ AL / LL	TIN (in-situ): <u>1.05</u> AL / (L)	Turbidity: _____ AL / LL	TIN (in-situ): <u>1.05</u> AL / (L)		
	TIN (Lab): <u>1.06</u> AL / (L)	TSS : _____ AL / LL	TIN (Lab): <u>1.04</u> AL / (L)	TSS : _____ AL / LL		
Action taken / to be taken: (tick / fill in as appropriate)	Inspection: <input checked="" type="checkbox"/> Silt curtain in proper condition <input checked="" type="checkbox"/> Dredging rate within accepted rate <input checked="" type="checkbox"/> Monitoring equipment is checked and confirmed without problem. <input type="checkbox"/> Others: _____					
Possible reason for Action or Limit Level Non-compliance: (tick / fill in as appropriate)		DO(S&M)	DO(B)	TSS	TIN (In-situ)	TIN (Lab)
	Findings / Evidences					
	<input checked="" type="checkbox"/> Station at Upstream Location at ME				✓	✓
	<input checked="" type="checkbox"/> Upstream Control Station (or gradient station) exceeded AL/LL				MF:0.63mg/L(C2A)	MF:0.63mg/L(C2A)
<input type="checkbox"/> No increasing trend towards the Project at MF:	Upstream: _____ ( ) mg/L	Upstream: _____ ( ) mg/L	Upstream: _____ ( ) NTU	Upstream: _____ ( ) mg/L		
	Downstream: _____ ( ) mg/L	Downstream: _____ ( ) mg/L	Downstream: _____ ( ) NTU	Downstream: _____ ( ) mg/L		
<input type="checkbox"/> No Dredging Works carried out.						
Conclusion	<input checked="" type="checkbox"/> Due to change or/and influence of ambient condition in the vicinity, i.e. not Project related.				✓	✓
Remarks: (tick / fill in as appropriate)	Repeat In-situ measurement was done. Mid-Flood: DO (S&M): _____ DO (B): _____ Turbidity: _____ TIN: <u>1.05</u> _____ Mid-Ebb: DO (S&M): _____ DO (B): _____ Turbidity: _____ TIN: <u>1.05</u> _____ <input checked="" type="checkbox"/> <u>Dredging works conducted at Zone2B2 of the Project.</u> <u>According to Contractor, dredged rate (in-situ) at Zone2B2 was 385m3/day.</u>					

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**Materialab**

	DO(S&M)	DO(B)	Turbidity	TIN (In-situ)	TIN (Lab)
Others					

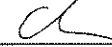
Prepared by: Wingo So

Signature: 

Date (dd/mm/yyyy): 06/06/2017

Certified by: Colin Yung

Designation: Environmental Team Leader

Signature: 

Date (dd/mm/yy): 06/06/2017

**Notes:**

- Abbreviation:

AL – Action Level

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DO (S&M) – Dissolved Oxygen (Surface & Middle)

LL – Limit Level

ME – Mid Ebb

MF – Mid Flood

NH3-N (In-situ) – Ammoniacal Nitrogen (In-situ results)

NH3-N (Lab) – Ammoniacal Nitrogen (Laboratory results)

TIN (In-situ) – Total Inorganic Nitrogen (In-situ results)

TIN (Lab) – Total Inorganic Nitrogen (Laboratory results)

TSS – Total Suspended Solids

- Wet Season: April to October; Dry Season: November to March

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**Interim Notification of Environmental Quality Limits Exceedances  
Impact Water Quality Monitoring**

Incident Report on Action Level or Limit Level Non-compliance

Reference No.:	20170509 /IM/SR5					
Project:	CV/2013/04 - Providing Sufficient Water Depth for Kwai Tsing Container Basin and its Approach Channel					
Date:	09/05/2017					
Time: (hh:mm)	Mid-Flood:	15:06	Mid-Ebb:	12:54		
Monitoring Location:	SR5 – Ma Wan FCZ					
Action Level / Limit Level:	DO (S&M):	5/5 mg/L;	Turbidity:	10.8/15.0 NTU;		
	DO (B):	4.11/4.04 mg/L;	TIN	0.45/0.50 (wet season) or 0.36/0.39 (dry season) mg/L		
	TSS :	12 / 19 mg/L				
Measured Level of exceeded parameters: (tick / fill in / circle as appropriate)	Mid-Flood:		Mid-Ebb:			
	DO (S&M):	AL / LL	DO (B):	AL / LL	DO (S&M):	AL / LL
	Turbidity:	AL / LL	TIN (In-situ):	0.93 AL / LL	Turbidity:	AL / LL
	TIN (Lab):	0.92 AL / LL	TSS :	AL / LL	TIN (Lab):	0.93 AL / LL
Action taken / to be taken: (tick / fill in as appropriate)	Inspection:					
	<input type="checkbox"/> Silt curtain in proper condition <input type="checkbox"/> Dredging rate within accepted rate <input checked="" type="checkbox"/> Monitoring equipment is checked and confirmed without problem. <input type="checkbox"/> Others: _____					
Possible reason for Action or Limit Level Non-compliance: (tick / fill in as appropriate)	Findings / Evidences					
	<input checked="" type="checkbox"/> Station at Upstream Location at ME					
	<input checked="" type="checkbox"/> Upstream Control Station (station or gradient) exceeded AL/LL			MF:0.57mg/L(C2A)	MF:0.57mg/L(C2A)	
	<input type="checkbox"/> No increasing trend towards the Project at MF:	Upstream: _____ ( ) mg/L	Upstream: _____ ( ) mg/L	Upstream: _____ ( ) NTU	Upstream: _____ ( ) mg/L	
		Downstream: _____ ( ) mg/L	Downstream: _____ ( ) mg/L	Downstream: _____ ( ) NTU	Downstream: _____ ( ) mg/L	
<input checked="" type="checkbox"/> No Dredging Works carried out.						
Conclusion	<input checked="" type="checkbox"/> Due to change or/and influence of ambient condition in the vicinity, i.e. not Project related.					
Remarks: (tick / fill in as appropriate)	Repeat In-situ measurement was done.					
	Mid-Flood:	DO (S&M):	DO (B):	Turbidity:		
		TIN:				
	Mid-Ebb:	DO (S&M):	DO (B):	Turbidity:		
	TIN:	0.93				
<input type="checkbox"/> _____ _____ _____ _____						

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**MaterialLab**

	DO(S&M)	DO(B)	Turbidity	TIN (In-situ)	TIN (Lab)
Others					

Prepared by: Wingo So

Signature: 

Date (dd/mm/yyyy): 06/06/2017

Certified by: Colin Yung

Designation: Environmental Team Leader

Signature: 

Date (dd/mm/yy): 06/06/2017

**Notes:**

- Abbreviation:

AL – Action Level

DO (B) – Dissolved Oxygen (Bottom)

DO (S&M) – Dissolved Oxygen (Surface & Middle)

LL – Limit Level

ME – Mid Ebb

MF – Mid Flood

NH<sub>3</sub>-N (In-situ) – Ammoniacal Nitrogen (In-situ results)

NH<sub>3</sub>-N (Lab) – Ammoniacal Nitrogen (Laboratory results)

TIN (In-situ) – Total Inorganic Nitrogen (in-situ results)

TIN (Lab) – Total Inorganic Nitrogen (Laboratory results)

TSS – Total Suspended Solids

- Wet Season: April to October; Dry Season: November to March

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**Interim Notification of Environmental Quality Limits Exceedances  
Impact Water Quality Monitoring**

Incident Report on Action Level or Limit Level Non-compliance

Reference No.:	20170511 /IM/SR5					
Project:	CV/2013/04 - Providing Sufficient Water Depth for Kwai Tsing Container Basin and its Approach Channel					
Date:	11/05/2017					
Time: (hh:mm)	Mid-Flood: 09:08		Mid-Ebb: 09:48			
Monitoring Location:	SR5 – Ma Wan FCZ					
Action Level / Limit Level:	DO (S&M): 5/5 mg/L; DO (B): 4.11/4.04 mg/L; TSS : 12 / 19 mg/L		Turbidity: 10.8/15.0 NTU; TIN : 0.45/0.50 (wet season) or 0.36/0.39 (dry season) mg/L			
Measured Level of exceeded parameters: (tick / fill in / circle as appropriate)	Mid-Flood:		Mid-Ebb:			
	DO (S&M): _____ AL / LL	DO (B): _____ AL / LL	DO (S&M): _____ AL / LL	DO (B): _____ AL / LL		
	Turbidity: _____ AL / LL	TIN (In-situ): <u>0.64</u> AL / <input checked="" type="checkbox"/> LL	Turbidity: _____ AL / LL	TIN (In-situ): <u>0.66</u> AL / <input checked="" type="checkbox"/> LL		
	TIN (Lab): <u>0.64</u> AL / <input checked="" type="checkbox"/> LL	TSS : _____ AL / LL	TIN (Lab): <u>0.65</u> AL / <input checked="" type="checkbox"/> LL	TSS : _____ AL / LL		
Action taken / to be taken: (tick / fill in as appropriate)	Inspection: <input checked="" type="checkbox"/> Silt curtain in proper condition <input checked="" type="checkbox"/> Dredging rate within accepted rate <input checked="" type="checkbox"/> Monitoring equipment is checked and confirmed without problem. <input type="checkbox"/> Others: _____					
Possible reason for Action or Limit Level Non-compliance: (tick / fill in as appropriate)		DO(S&M)	DO(B)	TSS	TIN (In-situ)	TIN (Lab)
	Findings / Evidences					
	<input checked="" type="checkbox"/> Station at Upstream Location at ME				✓	✓
	<input checked="" type="checkbox"/> Upstream Control Station (or gradient station) exceeded AL/LL				MF:0.69mg/L (C2A)	MF:0.69mg/L (C2A)
<input type="checkbox"/> No increasing trend towards the Project at MF:	Upstream: _____ ( ) mg/L	Upstream: _____ ( ) mg/L	Upstream: _____ ( ) NTU	Upstream: _____ ( ) mg/L		
	Downstream: _____ ( ) mg/L	Downstream: _____ ( ) mg/L	Downstream: _____ ( ) NTU	Downstream: _____ ( ) mg/L		
<input type="checkbox"/> No Dredging Works carried out.						
Conclusion	<input checked="" type="checkbox"/> Due to change or/and influence of ambient condition in the vicinity, i.e. not Project related.				✓	✓
Remarks: (tick / fill in as appropriate)	Repeat In-situ measurement was done. Mid-Flood: DO (S&M): _____ DO (B): _____ Turbidity: _____ TIN: <u>0.64</u> _____ Mid-Ebb: DO (S&M): _____ DO (B): _____ Turbidity: _____ TIN: <u>0.66</u> _____ <input checked="" type="checkbox"/> <b>Dredging works conducted at Zone2B2 of the Project.</b> <b>According to Contractor, dredged rate (in-situ) at Zone2B2 was 385m3/day.</b> _____ _____ _____					




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**MaterialLab**

	DO(S&M)	DO(B)	Turbidity	TIN (In-situ)	TIN (Lab)
Others					

Prepared by: Wingo SoSignature: Date (dd/mm/yyyy): 06 / 06 / 2017

Certified by: Colin Yung

Designation: Environmental Team Leader

Signature: Date (dd/mm/yy): 06 / 06 / 2017**Notes:**

- Abbreviation:

AL – Action Level

DO (B) – Dissolved Oxygen (Bottom)

DO (S&amp;M) – Dissolved Oxygen (Surface &amp; Middle)

LL – Limit Level

ME – Mid Ebb

MF – Mid Flood

NH3-N (In-situ) – Ammoniacal Nitrogen (In-situ results)

NH3-N (Lab) – Ammoniacal Nitrogen (Laboratory results)

TIN (In-situ) – Total Inorganic Nitrogen (In-situ results)

TIN (Lab) – Total Inorganic Nitrogen (Laboratory results)

TSS – Total Suspended Solids

- Wet Season: April to October; Dry Season: November to March

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**Interim Notification of Environmental Quality Limits Exceedances  
Impact Water Quality Monitoring**

Incident Report on Action Level or Limit Level Non-compliance

Reference No.:	<u>20170513</u> /IM/SR5							
Project:	CV/2013/04 - Providing Sufficient Water Depth for Kwai Tsing Container Basin and its Approach Channel							
Date:	13/05/2017							
Time: (hh:mm)	Mid-Flood: 08:14		Mid-Ebb: 10:42					
Monitoring Location:	SR5 - Ma Wan FCZ							
Action Level / Limit Level:	DO (S&M): 5/5 mg/L; DO (B): 4.11/4.04 mg/L; TSS : 12 / 19 mg/L		Turbidity: 10.8/15.0 NTU; TIN 0.45/0.50 (wet season) or 0.36/0.39 (dry season) mg/L					
Measured Level of exceeded parameters: (tick / fill in / circle as appropriate)	Mid-Flood:		Mid-Ebb:					
	DO (S&M):	AL / LL	DO (B):	AL / LL	DO (S&M):	AL / LL	DO (B):	AL / LL
	Turbidity:	AL / LL	TIN(In-situ):	0.88 AL / (L)	Turbidity:	AL / LL	TIN(In-situ):	0.88 AL / (L)
	TIN(Lab):	0.89 AL / (L)	TSS :	AL / LL	TIN(Lab):	0.87 AL / (L)	TSS :	AL / LL
Action taken / to be taken: (tick / fill in as appropriate)	Inspection: <input type="checkbox"/> Silt curtain in proper condition <input type="checkbox"/> Dredging rate within accepted rate <input checked="" type="checkbox"/> Monitoring equipment is checked and confirmed without problem. <input type="checkbox"/> Others: _____							
Possible reason for Action or Limit Level Non-compliance: (tick / fill in as appropriate)		DO(S&M)	DO(B)	TSS	TIN (In-situ)	TIN (Lab)		
	Findings / Evidences							
	<input checked="" type="checkbox"/> Station at Upstream Location at ME				✓	✓		
	<input checked="" type="checkbox"/> Upstream Control Station (or gradient station) exceeded AL/LL				MF:0.86mg/L(C2A)	MF:0.85mg/L(C2A)		
<input type="checkbox"/> No increasing trend towards the Project at MF:	Upstream: _____ ( ) mg/L	Upstream: _____ ( ) mg/L	Upstream: _____ ( ) NTU	Upstream: _____ ( ) mg/L				
	Downstream: _____ ( ) mg/L	Downstream: _____ ( ) mg/L	Downstream: _____ ( ) NTU	Downstream: _____ ( ) mg/L				
<input checked="" type="checkbox"/> No Dredging Works carried out.								
Conclusion	<input checked="" type="checkbox"/> Due to change or/and influence of ambient condition in the vicinity, i.e. not Project related.				✓	✓		
Remarks: (tick / fill in as appropriate)	Repeat In-situ measurement was done.							
	Mid-Flood:	DO (S&M): _____ TIN: <u>0.88</u>	DO (B): _____	Turbidity: _____				
	Mid-Ebb:	DO (S&M): _____ TIN: <u>0.88</u>	DO (B): _____	Turbidity: _____				
	<input type="checkbox"/> _____ _____ _____ _____							

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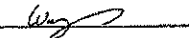
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**Materialab**

	DO(S&M)	DO(B)	Turbidity	TIN (In-situ)	TIN (Lab)
Others					

Prepared by: Wingo So

Signature: 

Date (dd/mm/yyyy): 06/06/2017

Certified by: Colin Yung

Designation: Environmental Team Leader

Signature: 

Date (dd/mm/yy): 06/06/2017

**Notes:**

- Abbreviation:

AL – Action Level

DO (B) – Dissolved Oxygen (Bottom)

DO (S&M) – Dissolved Oxygen (Surface & Middle)

LL – Limit Level

ME – Mid Ebb

MF – Mid Flood

NH<sub>3</sub>-N (In-situ) – Ammoniacal Nitrogen (In-situ results)

NH<sub>3</sub>-N (Lab) – Ammoniacal Nitrogen (Laboratory results)

TIN (In-situ) – Total Inorganic Nitrogen (In-situ results)

TIN (Lab) – Total Inorganic Nitrogen (Laboratory results)

TSS – Total Suspended Solids

- Wet Season: April to October; Dry Season: November to March

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**Interim Notification of Environmental Quality Limits Exceedances  
Impact Water Quality Monitoring**

Incident Report on Action Level or Limit Level Non-compliance

Reference No.:	20170516 /IM/SR5					
Project:	CV/2013/04 - Providing Sufficient Water Depth for Kwai Tsing Container Basin and its Approach Channel					
Date:	16/05/2017					
Time: (hh:mm)	Mid-Flood:	10:03	Mid-Ebb:	12:04		
Monitoring Location:	SR5 – Ma Wan FCZ					
Action Level / Limit Level:	DO (S&M):	5/5 mg/L;	Turbidity:	10.8/15.0 NTU;		
	DO (B):	4.11/4.04 mg/L;	TIN	0.45/0.50 (wet season) or 0.36/0.39 (dry season) mg/L		
	TSS :	12 / 19 mg/L				
Measured Level of exceeded parameters: (tick / fill in / circle as appropriate)	Mid-Flood:	Mid-Ebb:				
	DO (S&M):	AL / LL	DO (B):	AL / LL	DO (S&M): AL / LL DO (B): AL / LL	
	Turbidity:	AL / LL	TIN(In-situ):	0.68 AL / (L)	Turbidity: AL / LL TIN(In-situ): 0.69 AL / (L)	
	TIN(Lab):	0.69 AL / (L)	TSS :	AL / LL	TIN(Lab): 0.69 AL / (L) TSS : AL / LL	
Action taken / to be taken: (tick / fill in as appropriate)	Inspection: <input type="checkbox"/> Silt curtain in proper condition <input type="checkbox"/> Dredging rate within accepted rate <input checked="" type="checkbox"/> Monitoring equipment is checked and confirmed without problem. <input type="checkbox"/> Others: _____					
Possible reason for Action or Limit Level Non-compliance: (tick / fill in as appropriate)		DO(S&M)	DO(B)	TSS	TIN (In-situ)	TIN (Lab)
	Findings / Evidences					
	<input checked="" type="checkbox"/> Station at Upstream Location at ME				✓	✓
	<input checked="" type="checkbox"/> Upstream Control Station (or gradient station) exceeded AL/LL				MF:0.74mg/L(C2A)	MF:0.75mg/L(C2A)
	<input type="checkbox"/> No increasing trend towards the Project at MF:	Upstream: _____ ( )mg/L	Upstream: _____ ( )mg/L	Upstream: _____ ( )NTU	Upstream: _____ ( )mg/L	
	Downstream: _____ ( )mg/L	Downstream: _____ ( )mg/L	Downstream: _____ ( )NTU	Downstream: _____ ( )mg/L		
<input checked="" type="checkbox"/> No Dredging Works carried out.						
Conclusion	<input checked="" type="checkbox"/> Due to change or/and influence of ambient condition in the vicinity, i.e. not Project related.					
Remarks: (tick / fill in as appropriate)	Repeat In-situ measurement was done.					
	Mid-Flood:	DO (S&M):	TIN:	0.68	DO (B):	Turbidity:
	Mid-Ebb:	DO (S&M):	TIN:	0.69	DO (B):	Turbidity:
	<input type="checkbox"/>	_____				

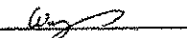
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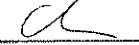
**MaterialLab**

	DO(S&M)	DO(B)	Turbidity	TIN (In-situ)	TIN (Lab)
Others					

Prepared by: Wingo SoSignature: Date (dd/mm/yyyy): 06/06/2017

Certified by: Colin Yung

Designation: Environmental Team Leader

Signature: Date (dd/mm/yy): 06/06/2017

## Notes:

- Abbreviation:

AL – Action Level

DO (B) – Dissolved Oxygen (Bottom)

DO (S&amp;M) – Dissolved Oxygen (Surface &amp; Middle)

LL – Limit Level

ME – Mid Ebb

MF – Mid Flood

NH<sub>3</sub>-N (In-situ) – Ammoniacal Nitrogen (In-situ results)NH<sub>3</sub>-N (Lab) – Ammoniacal Nitrogen (Laboratory results)

TIN (In-situ) – Total Inorganic Nitrogen (In-situ results)

TIN (Lab) – Total Inorganic Nitrogen (Laboratory results)

TSS – Total Suspended Solids

- Wet Season: April to October; Dry Season: November to March

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**Interim Notification of Environmental Quality Limits Exceedances  
Impact Water Quality Monitoring**

Incident Report on Action Level or Limit Level Non-compliance

Reference No.:	20170518 /IM/SR4					
Project:	CV/2013/04 - Providing Sufficient Water Depth for Kwai Tsing Container Basin and its Approach Channel					
Date:	18/05/2017					
Time: (hh:mm)	Mid-Flood: 11:27		Mid-Ebb: 14:37			
Monitoring Location:	SR4 - Tsuen Wan, WSD Flushing Water Intake					
Action Level / Limit Level:	DO (S&M): 2/2 mg/L;	NH3-N: <1/<1 mg/L ;				
	DO (B): 2/2 mg/L;	Turbidity: <10/<10 NTU;				
	Total Suspended Solids : <10/<10 mg/L	E.coli : <20,000 / <20,000 mg/L				
Measured Level of exceeded parameters: (tick / fill in / circle as appropriate)	Mid-Flood:		Mid-Ebb:			
	DO (S&M): _____ AL / LL	DO (B): _____ AL / LL	DO (S&M): _____ AL / LL	DO (B): _____ AL / LL		
	Turbidity: _____ AL / LL	NH3-N(In-situ): _____ AL / LL	Turbidity: _____ AL / LL	NH3-N(In-situ): _____ AL / LL		
	NH3-N(Lab): _____ AL / LL	E.coli : 20,146 AL / (L)	NH3-N(Lab): _____ AL / LL	TSS : _____ AL / LL		
Action taken / to be taken: (tick / fill in as appropriate)	Inspection: <input type="checkbox"/> Silt curtain in proper condition <input checked="" type="checkbox"/> Dredging rate within accepted rate <input checked="" type="checkbox"/> Monitoring equipment is checked and confirmed without problem. <input type="checkbox"/> Others: _____					
Possible reason for Action or Limit Level Non-compliance: (tick / fill in as appropriate)		DO(S&M)	DO(B)	Turbidity	NH3-N	E.coli
	Findings / Evidences					
	<input type="checkbox"/> Station at Upstream Location at ME					
	<input type="checkbox"/> Upstream Control Station ( ) exceeded AL/LL					
<input checked="" type="checkbox"/> No increasing / decreasing (for DO) trend across the Project at MF	Upstream: _____ ( ) mg/L	Upstream: _____ ( ) mg/L	Upstream: _____ ( ) NTU	Upstream: _____ ( ) mg/L	Upstream: 48 CFU/100mL	
	Downstream: _____ ( ) mg/L	Downstream: _____ ( ) mg/L	Downstream: _____ ( ) NTU	Downstream: _____ ( ) mg/L	Downstream: 38 CFU/100mL	
<input checked="" type="checkbox"/> No Dredging Works carried out.						
Conclusion	<input checked="" type="checkbox"/> Due to change or/and influence of ambient condition in the vicinity, i.e. not Project related.					
Remarks: (tick / fill in as appropriate)	Repeat In-situ measurement was done.					
	Mid-Flood:	DO (S&M): _____	DO (B): _____	Turbidity: _____		
		NH3-N: _____				
	Mid-Ebb:	DO (S&M): _____	DO (B): _____	Turbidity: _____		
		NH3-N: _____				
	<input type="checkbox"/> _____					

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	DO(S&M)	DO(B)	Turbidity	NH3-N	
Others					

Prepared by: Wingo So

Signature:

Date (dd/mm/yyyy): 06/06/2017

Certified by: Colin Yung

Designation: Environmental Team Leader

Signature:

Date (dd/mm/yy): 06/06/2017

Notes:

- Abbreviation:

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- Wet Season: April to October; Dry Season: November to March

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**Interim Notification of Environmental Quality Limits Exceedances  
Impact Water Quality Monitoring**

Incident Report on Action Level or Limit Level Non-compliance

Reference No.:	20170518 /IM/SR5					
Project:	CV/2013/04 - Providing Sufficient Water Depth for Kwai Tsing Container Basin and its Approach Channel					
Date:	18/05/2017					
Time: (hh:mm)	Mid-Flood:	12:41	Mid-Ebb:	13:41		
Monitoring Location:	SR5 - Ma Wan FCZ					
Action Level / Limit Level:	DO (S&M):	5/5 mg/L;	Turbidity:	10.8/15.0 NTU;		
	DO (B):	4.11/4.04 mg/L;	TIN	0.45/0.50 (wet season) or 0.36/0.39 (dry season) mg/L.		
	TSS	: 12 / 19 mg/L		/ mg/L		
Measured Level of exceeded parameters: (tick / fill in / circle as appropriate)	Mid-Flood:	Mid-Ebb:				
	DO (S&M):	AL / LL	DO (B):	AL / LL	DO (S&M):	AL / LL
	Turbidity:	AL / LL	TIN(In-situ):	0.67 AL / (L)	Turbidity:	AL / LL
	TIN(Lab):	0.67 AL / (L)	TSS :	AL / LL	TIN(Lab):	0.67 AL / (L)
	TSS :	AL / LL		TSS :	AL / LL	
Action taken / to be taken: (tick / fill in as appropriate)	Inspection:					
	<input type="checkbox"/> Silt curtain in proper condition <input type="checkbox"/> Dredging rate within accepted rate <input checked="" type="checkbox"/> Monitoring equipment is checked and confirmed without problem. <input type="checkbox"/> Others: _____					
Possible reason for Action or Limit Level Non-compliance: (tick / fill in as appropriate)		DO(S&M)	DO(B)	TSS	TIN (In-situ)	TIN (Lab)
	Findings / Evidences					
	<input checked="" type="checkbox"/> Station at Upstream Location at ME				✓	✓
	<input checked="" type="checkbox"/> Upstream Control Station (or gradient station) exceeded AL/LL				MF:0.65mg/L(C2A)	MF:0.65mg/L(C2A)
	<input type="checkbox"/> No increasing trend towards the Project at MF:	Upstream: _____ ( )mg/L	Upstream: _____ ( )mg/L	Upstream: _____ ( )NTU	Upstream: _____ ( )mg/L	
	Downstream: _____ ( )mg/L	Downstream: _____ ( )mg/L	Downstream: _____ ( )NTU	Downstream: _____ ( )mg/L		
<input checked="" type="checkbox"/> No Dredging Works carried out.						
Conclusion	<input checked="" type="checkbox"/> Due to change or/and influence of ambient condition in the vicinity, i.e. not Project related.			✓	✓	
Remarks: (tick / fill in as appropriate)	Repeat In-situ measurement was done.					
	Mid-Flood:	DO (S&M):	DO (B):	Turbidity:		
		TIN:				
	Mid-Ebb:	DO (S&M):	DO (B):	Turbidity:		
		TIN:				
		0.67				
		0.67				
	<input type="checkbox"/> _____ _____ _____ _____					




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**MaterialLab**

	DO(S&M)	DO(B)	Turbidity	TIN (In-situ)	TIN (Lab)
Others					

Prepared by: Wingo SoSignature: Date (dd/mm/yyyy): 06/06/2017

Certified by: Colin Yung

Designation: Environmental Team Leader

Signature: Date (dd/mm/yy): 06/06/2017**Notes:**

- Abbreviation:

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- Wet Season: April to October; Dry Season: November to March

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**Interim Notification of Environmental Quality Limits Exceedances  
Impact Water Quality Monitoring**

Incident Report on Action Level or Limit Level Non-compliance

Reference No.:	20170520 /IM/SR5							
Project:	CV/2013/04 - Providing Sufficient Water Depth for Kwai Tsing Container Basin and its Approach Channel							
Date:	20/05/2017							
Time: (hh:mm)	Mid-Flood: 10:50		Mid-Ebb: 09:30					
Monitoring Location:	SR5 – Ma Wan FCZ							
Action Level / Limit Level:	DO (S&M): 5/5 mg/L; DO (B): 4.11/4.04 mg/L; TSS : 12 / 19 mg/L		Turbidity: 10.8/15.0 NTU; TIN : 0.45/0.50 <sub>(wet season)</sub> or 0.36/0.39 <sub>(dry season)</sub> mg/L					
Measured Level of exceeded parameters: (tick / fill in / circle as appropriate)	Mid-Flood:		Mid-Ebb:					
	DO (S&M):	AL / LL	DO (B):	AL / LL	DO (S&M):	AL / LL	DO (B):	AL / LL
	Turbidity:	AL / LL	TIN(In-situ):	0.74 AL / (L)	Turbidity:	AL / LL	TIN(In-situ):	0.72 AL / (L)
	TIN(Lab):	0.73 AL / (L)	TSS :	AL / LL	TIN(Lab):	0.72 AL / (L)	TSS :	AL / LL
Action taken / to be taken: (tick / fill in as appropriate)	Inspection: <input type="checkbox"/> Silt curtain in proper condition <input type="checkbox"/> Dredging rate within accepted rate <input checked="" type="checkbox"/> Monitoring equipment is checked and confirmed without problem. <input type="checkbox"/> Others: _____							
Possible reason for Action or Limit Level Non-compliance: (tick / fill in as appropriate)		DO(S&M)	DO(B)	TSS	TIN (In-situ)	TIN (Lab)		
	Findings / Evidences							
	<input checked="" type="checkbox"/> Station at Upstream Location at ME				✓	✓		
	<input checked="" type="checkbox"/> Upstream Control Station (or gradient station) exceeded AL/LL				MF:1.00mg/L(C2A)	MF:0.99mg/L(C2A)		
<input type="checkbox"/> No increasing trend towards the Project at MF:	Upstream: _____ ( )mg/L	Upstream: _____ ( )mg/L	Upstream: _____ ( )NTU	Upstream: _____ ( )mg/L				
	Downstream: _____ ( )mg/L	Downstream: _____ ( )mg/L	Downstream: _____ ( )NTU	Downstream: _____ ( )mg/L				
<input checked="" type="checkbox"/> No Dredging Works carried out.								
Conclusion	<input checked="" type="checkbox"/> Due to change or/and influence of ambient condition in the vicinity, i.e. not Project related.							
Remarks: (tick / fill in as appropriate)	Repeat in-situ measurement was done.							
	Mid-Flood:	DO (S&M): TIN: 0.74	DO (B):	Turbidity:				
	Mid-Ebb:	DO (S&M): TIN: 0.72	DO (B):	Turbidity:				
	<input type="checkbox"/> _____ _____ _____ _____							

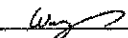
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	DO(S&M)	DO(B)	Turbidity	TIN (In-situ)	TIN (Lab)
Others					

Prepared by: Wingo SoSignature: Date (dd/mm/yyyy): 06/06/2017

Certified by: Colin Yung

Designation: Environmental Team Leader

Signature: Date (dd/mm/yy): 06/06/2017

## Notes:

- Abbreviation:

AL – Action Level

DO (B) – Dissolved Oxygen (Bottom)

DO (S&amp;M) – Dissolved Oxygen (Surface &amp; Middle)

LL – Limit Level

ME – Mid Ebb

MF – Mid Flood

NH3-N (In-situ) – Ammoniacal Nitrogen (In-situ results)

NH3-N (Lab) – Ammoniacal Nitrogen (Laboratory results)

TIN (In-situ) – Total Inorganic Nitrogen (In-situ results)

TIN (Lab) – Total Inorganic Nitrogen (Laboratory results)

TSS – Total Suspended Solids

- Wet Season: April to October; Dry Season: November to March

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Report No.: 0394/13/ED/0358

Appendix J

Environmental Mitigation Implementation Schedule

EIA Ref	EM&A Ref	No.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to Address	Who to implement the measure	Location of the measure	When to implement the measure?	Implementation Status
3.8	2.9	A	Water Quality					
		A1	<u>Use of Silt Screens</u> Silt Screens shall be installed at the flushing water intakes WSRs WSD1, WSD8, <del>WSD9</del> and EMSD1 to minimise the effect of potential increase in SS levels at the seawater intakes.	Minimize the effect of potential increase in SS levels at the seawater intakes	Contractor	WSD8, WSD9 and EMSD1	Construction Phase	Implemented
3.8	2.9	A2	<u>Use of Silt Curtains</u> To minimize the potential SS impact from dredging, deployment of silt curtains around the grab dredgers is recommended; and  Before commencement of dredging works, the holder of the Environmental Permit shall submit detailed proposal of the design and arrangement of the frame type silt curtain to EPD for approval.	Minimize the release of suspended soil from the dredging area	Contractor	Construction Work Sites	Construction Phase	Implemented
		A3	Water Quality Monitoring Program Water quality monitoring shall be carried out in accordance with Section 2 of the Environmental Monitoring and Audit (EM&A) Manual.  Event and Action Plan (EAP) for water quality shall be followed in case of any exceedance in action and limit level.	Perform water quality monitoring at sensitive receivers during construction phase	ET	Monitoring Locations as stated in Table 2.1 of the EM&A Manual	Construction Phase	Implemented
3.8 (EP Ref 3)	-	A4	Dredging Operation Only two types of dredgers are allowed for this Project: (a) grab dredger with closed grab, and (b) <del>cutter suction dredger</del> spud pole grab dredger.	Minimize potential adverse effect as a result of dredging activities	Contractor	Construction Work Sites	Construction Phase	Implemented
		A5	The speed of any construction vessels shall not exceed 10 knots when passing through the area of the Project.					Implemented
		A6	No more than <del>three</del> two grab dredgers with closed grab (or <del>one cutter suction dredger with two closed grab dredgers</del> ) shall be operated within the Project Area at any one time for the Project.					Implemented
		A7	Only one closed grab dredger or <del>one cutter suction dredger</del> shall be operated in Zone 2B and during which no other closed grab dredger shall be allowed in other zones within the Project Area.					Implemented
		A8	No more than one grab dredger with closed grab (or <del>one cutter suction dredger</del> ) shall be operated within each of the five main zones at any one time for the Project in which the cutter suction dredger shall only be operated in Zones 2 and 4 with maximum dredging rate of 700 m <sup>3</sup> in 30 minutes in any given hour (max. 8,400 m <sup>3</sup> /day, based on a 12-hour operation per day).					Implemented
		A9	The maximum dredging rate for closed grab dredger at Rambler Channel – Zones 1 to 2 (subzones Z1A, Z1B, Z2A, Z2B and Z2C) shall follow the Dredging Plan for the Hotspot, as shown in EP-426/2011/A.					Implemented
		A10	The maximum dredging rate for closed grab dredger at Rambler Channel – Zones 3 to 4 (subzones Z3A to Z4B) shall not exceed 1,600 m <sup>3</sup> per day during dry season or 3,440 m <sup>3</sup> per day during wet season as shown in EP-426/2011/A.					NA-Dredging works substantially completed
		A11	The maximum dredging rate for closed grab dredger at Rambler Channel – Zones 5 to 6 (subzones Z5A, Z5B and Z6A) shall not exceed 4,000 m <sup>3</sup> per					NA-Dredging works

EIA Ref	EM& A Ref	No.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to Address	Who to implement the measure	Location of the measure	When to implement the measure?	Implementation Status
			day during both dry and wet seasons as shown in EP-426/2011/A.					substantially completed
		A12	The maximum dredging rate for closed grab dredger at Rambler Channel – Zones 5 to 8 (subzones Z5C, Z6B, Z6C, Z6D, Z7 and Z8) shall not exceed 4,000 m <sup>3</sup> per day during both dry and wet seasons as shown in EP-426/2011/A.					NA-Dredging works substantially completed
		A13	The maximum dredging rate for closed grab dredger at Northern Fairway – Zones 9 to 12 shall not exceed 4,000 m <sup>3</sup> per day during both dry and wet seasons as shown in EP-426/2011/A.					NA-Dredging works substantially completed
		A14	The maximum dredging rate for closed grab dredger at Western Fairway – Zone 13A shall not exceed 4,000 m <sup>3</sup> per day during both dry and wet seasons as shown in EP-426/2011/A.					NA-Dredging works substantially completed
		A15	The maximum dredging rate for closed grab dredger at Western Fairway – Zone 13B shall not exceed 4,000 m <sup>3</sup> per day during both dry and wet seasons as shown in EP-426/2011/A.					NA-Dredging works substantially completed
		A16	<del>The dredging pump of cutter suction dredger shall be operated during cutting to reduce the sediment loss to water body.</del>					NA-no CSD employed
		A17	Project dredging works within Zone 1 to 6 (including sub-zones) of the Container Basin shall not be carried out at the same time with Terminal Operator's maintenance dredging activities.					NA-No Terminal Operator's maintenance dredging carried out
		A18	<del>Cutter suction dredger is only to be deployed for the removal of harder material during daytime only (07:00 to 19:00) in Zone 2 (including subzones) of the Container Basin.</del>					NA-no CSD employed
		A19	In case of rainstorm warning in effect during dredging works, the dredged material on barge shall be covered properly before transportation to disposal site.					Implemented
		A20	In case of exceedance of SS and NH <sub>3</sub> -N at the Tsing Yi WSD flushing intake due to dredging operation is evidenced, the Contractor shall propose mitigation measures not limited to reducing dredging rate. If exceedance persists, the Contractor shall propose not to undertake dredging operation in close proximity to the Tsing Yi flushing water intake during flood tide. The Contractor shall liaise with the ETL, IEC, ER, EPD and WSD for the proposed mitigation measures.					NA-no exceedance due to dredging operation
		A21	If further mitigation measures are required due to continuous exceedance of SS and NH <sub>3</sub> -N, consideration shall then be given to dredge only on the state of the tide which would avoid migration of SS towards the WSD and EMSD intakes.					NA-no exceedance due to dredging operation
		A22	Dredging sub-zone Z2B where high NH <sub>3</sub> -N in sediment is found shall be					Implemented

EIA Ref	EM& A Ref	No.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to Address	Who to implement the measure	Location of the measure	When to implement the measure?	Implementation Status
			isolated with dredging works to be carried out towards the end of construction programme.					
		A23	Administrative control in terms of dredging rate adjustment in controlling the release of contaminants shall be employed as mitigation measures.					Implemented
		A24	Field trials shall be carried out to propose the most effective dredging process and rate to control the release of ammoniacal nitrogen and UIA into the water column and achieve compliance at the WSD1 seawater intake (NH <sub>3</sub> -N) and at the beaches for UIA. Capital dredging works in dredging sub-zone Z2B (Figure 1.2h refers) should not therefore be carried out until the proposed method and rate are confirmed.					Implemented
		A25	Detailed dredging plan shall be prepared providing details of individual dredging subzones and dredging rate taking into account of the field trial results.					Implemented
3.8	-		<b>Other Good Site Practices for Dredging</b>	Minimize potential adverse effect as a result of dredging activities	Contractor	Construction Work Sites	Construction Phase	
		A26	All vessels should be sized so that adequate clearance is maintained between vessels and the seabed in all tide conditions, to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash.					Implemented
		A27	The speed of all Contractor's vessels should be controlled within the works area to prevent propeller wash from stirring up the seabed sediments.					Implemented
		A28	All barges / dredgers used should be fitted with tight fitting seals to their bottom openings to prevent leakage of material.					Implemented
		A29	Construction activities should not cause foam, oil, grease, scum, litter or other objectionable matter to be present on the water within the site or dumping grounds.					Implemented
		A30	No overflow of dredged mud should be allowed. Barges or hopper should not be filled to a level that will cause the overflow of materials or polluted water during loading or transportation.					Implemented
		<b>B</b>	<b>Waste Management</b>					
			<u>Good Site Practices</u>					
4.5	3.3	B1	Obtain the profile of different sediment categories and careful planning of sediment removal.	Minimize potential adverse effect arising from the handling of dredged material	Contractor	Construction Work Sites (General)	Construction Phase	Implemented
		B2	Nomination of an approved person, such as a site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site.					Implemented
		B3	Training of site personnel in proper waste management and chemical handling procedures.					Implemented
		B4	Provision of sufficient waste disposal points and regular collection of waste.					Implemented
		B5	Well planned delivery programme for offsite disposal such that adverse environmental impact from transporting sediment material is not anticipated.					Implemented
		B6	Use well maintained PME on site.					Implemented
			<u>General Refuse</u>					
4.5	3.3	B7	General refuse should be stored in enclosed bins. A reputable waste collector should be employed by the contractor to remove general refuse from the site.	Minimize the adverse effect arising from the handling of site general refuse	Contractor	Construction Work Sites (General)	Construction Phase	Implemented

EIA Ref	EM& A Ref	No.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to Address	Who to implement the measure	Location of the measure	When to implement the measure?	Implementation Status
			<u>Chemical Waste</u>					
4.5	3.3	B8	If chemical wastes are produced at the construction site, the Contractor shall be required to register with the EPD as a chemical waste producer and to follow the guidelines stated in the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. Good quality containers compatible with the chemical wastes shall be used, and incompatible chemicals should be stored separately. Appropriate labels shall be securely attached on each chemical waste container indicating the corresponding chemical characteristics of the chemical waste, such as explosive, flammable, oxidizing, irritant, toxic, harmful, corrosive, etc. The Contractor shall use a licensed collector to transport and dispose of the chemical wastes, to either the approved Chemical Waste Treatment Centre, or another licensed facility, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation.	Minimize the adverse effect arising from the handling of site chemical waste	Contractor	Construction Work Site	Construction Phase	Implemented
4.5	3.3		<u>Marine Dredged Sediment</u>					
		B9	Control of transportation and disposal of dredged material in a manner to minimize potential impacts on water quality.	Control of transportation and disposal of dredged material in a manner to minimize potential impacts on water quality	Contractor	Construction Work Site	Construction Phase	Implemented
		B10	Bottom opening of barges will be fitted with tight fitting seals to prevent leakage of material. Excess material shall be cleaned from the decks and exposed fittings of barges and dredgers before the vessel is moved.					Implemented
		B11	Monitoring of the barge loading shall be conducted to ensure that loss of material does not take place during transportation. Transport barges or vessels shall be equipped with automatic self-monitoring devices as specified by the EPD.					Implemented
		B12	Barges or hopper barges shall not be filled to a level that would cause the overflow of materials or sediment laden water during loading or transportation.					Implemented
		B13	Sediment Quality Report shall be prepared and submit to EPD under DASO.					Implemented
		B14	If disposal of Type 3 sediment is identified, agreement with EPD shall be reached regarding the treatment of sediment before disposal.					NA – no type 3 material disposed
		B15	Project works shall not be carried out before obtaining confirmation from MFC on disposal option.					Implemented
		B16	Follow strictly all conditions stipulated in the dumping permit.					Implemented
		<b>C</b>	<b>Marine Ecology</b>					
5.7	4.1	C1	Water quality monitoring results shall be reviewed from time to time to assess if there were any impact to marine ecology due to dredging operation.	Review and assess the potential adverse effect on marine ecology	Contractor	Construction Work Sites	Construction Phase	Implemented
		<b>D</b>	<b>Fisheries</b>					
6.7	5.1	D1	Water quality monitoring results shall be reviewed from time to time to assess if there were any impact to fisheries due to dredging operation.	Review and assess the potential adverse effect on fisheries	Contractor	Construction Work Sites	Construction Phase	Implemented
		<b>E</b>	<b>Hazard to Life</b>					
7.8.2	6.2	E1	Sound communication channel shall be established with the oil companies, Marine Department, and Fire Services Department for effective notification and emergency evacuation in case of accidents.		Contractor	Construction Work Sites (General)	Construction Phase	Implemented
		E2	Proper safety and emergency training shall be given to the relevant					Implemented



EIA Ref	EM& A Ref	No.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to Address	Who to implement the measure	Location of the measure	When to implement the measure?	Implementation Status
			operation staff at the dredging site. Emergency plans and procedures should be prepared and drills should be performed periodically.					
		<b>F</b>	<b>Landscape Visual and Glare</b>					
8.9 Table 8-3 & 8-6	7.2	F1	Visa shields to the lights of dredgers shall be provided.	Minimize landscape and visual impacts during construction phase	Contractor	Construction activities' area	Throughout design, construction phase	Implemented
		F2	The light source shall not point directly to any VSRs.					Implemented
		F3	Lights shall be switched off if they are not in use.					Implemented
		<b>G</b>	<b>Cultural Heritage</b>					
9.5	8		<u>Monitoring Brief</u>	Minimize potential marine archaeological impact during dredging activities	Contractor	Locations of the 20 unidentified sonar contacts and masked areas	During Construction works	
		G1	A monitoring brief shall be conducted during the dredging. It shall only be required during dredging at the locations of the 20 unidentified sonar contacts and masked areas and does not need to cover all of the dredging activities. Dredging staff should be briefed about the possibility of locating archaeological objects and a marine archaeologist shall be available to monitor the dredged spoil and provide advice. If material indicative of archaeological remains is retrieved, the AMO should be contacted as soon as possible.					NA- no archaeological deposit was found during reporting period.
		<b>H</b>	<b>Noise</b>					
10.8	9		<u>Good Site Practices</u>	Control and minimize the generation of undue noise nuisance	Contractor	Construction Work Sites (Along the alignment of dredging)	Construction Phase	
		H1	Only well-maintained plant shall be operated on-site and plant should be serviced regularly during the construction program.					Implemented
		H2	Machines and plant that may be in intermittent use should be shut down between works periods or should be throttled down to a minimum.					Implemented
		H3	Plant known to emit noise strongly in one direction should, wherever possible, be orientated so that the noise is directed away from nearby NSRs.					Implemented
		H4	If dredging is to be carried out during restricted hours, work locations close to NSRs shall be avoided.					Implemented
		<b>I</b>	<b>Construction Dust</b>					
11.7	10		<u>Dust Control</u>	Good site practice to control dust and odour impact to the nearby sensitive receivers	Contractor	Construction Work Sites (General)	Construction Phase	
		I1	Requirements of the Air Pollution Control (Construction Dust) Regulation, where relevant, shall be adhered to during the construction period.					Implemented
			<u>Odour</u>		Contractor	Construction Work Sites (General)	Construction Phase	
		I2	To minimize potential odour emissions, if dredged sediment is anticipated to be placed on barge for more than a day the load shall be properly covered as far as practicable to minimise the exposed area and potential odour.					NA-no work in such condition
		I3	If dredged sediment is found to be malodorous it shall be removed from site as soon as possible within one hour after the barge being filled up.					NA-no work in such condition

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Report No.: 0394/13/ED/0358

Appendix K

Waste Generation in Reporting Period

Name of Department : Civil Engineering and Development Department  
 Contract No. : CV/2013/04

**Monthly Summary Waste Flow Table for 2017 (year)**

Year	Actual Quantities of Inert C&D Materials Generated Monthly					Actual Quantities of C&D Wastes Generated Monthly				
	Total Quantity Generated	Broken Concrete (see Note 4)	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Metals	Paper/cardboard packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. general refuse
	(in '000 m <sup>3</sup> )	(in '000 m <sup>3</sup> )	(in '000 m <sup>3</sup> )	(in '000 m <sup>3</sup> )	(in '000 m <sup>3</sup> )	(in '000 kg)	(in '000 kg)	(in '000 kg)	(in '000 kg)	(in '000 m <sup>3</sup> )
2017										
Jan	nil	nil	nil	nil	nil	nil	nil	nil	nil	0.01
Feb	nil	nil	nil	nil	nil	nil	nil	nil	nil	0.01
Mar	nil	nil	nil	nil	nil	nil	nil	nil	nil	0.01
Apr	nil	nil	nil	nil	nil	nil	nil	nil	4.8	0.01
May	nil	nil	nil	nil	nil	nil	nil	nil	nil	0.01
Jun										
Jul										
Aug										
Sep										
Oct										
Nov										
Dec										
<b>Total</b>	nil	nil	nil	nil	nil	nil	nil	nil	4.8	0.05

Notes:

- (1) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.
- (2) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material.
- (3) Broken concrete for recycling into aggregates

**Monthly Summary of Sediment Disposal (2014 - 2017)**

<b>Marine Sediment Type</b>	<b>Type 1 – Open Sea Disposal</b>	<b>Type 2 – Confined Marine Disposal</b>	<b>Type 3 – Special Treatment / Disposal</b>
Month	Monthly Quantity (m <sup>3</sup> )	Monthly Quantity (m <sup>3</sup> )	Monthly Quantity (m <sup>3</sup> )
<b>2014</b>			
Jan-Dec	549,430	99,660	nil
<b>2015</b>			
Jan-Dec	938,560	372,370	nil
<b>2016</b>			
January	12,580	22,290	nil
February	47,980	30,300	nil
March	34,550	20,070	nil
April	31,040	14,540	nil
May	23,960	20,490	1,260
June	29,950	26,820	nil
July	9,500	18,040	nil
August	6,300	700	nil
September	nil	nil	nil
October	nil	nil	nil
November	nil	nil	nil
December	nil	nil	nil
<b>2017</b>			
January	nil	nil	nil
February	nil	nil	nil
March	nil	nil	nil
April	nil	3,000	nil
May	nil	5,000	nil
<b>Total</b>	<b>1,683,850</b>	<b>633,280</b>	<b>1,260</b>

## Yearly Summary Waste Flow Table

Year	Estimated Annual Quantities of Inert C&D Materials (in '000m <sup>3</sup> )										Estimated Annual of C&D Wastes									
	Total Quantity Generated		Broken Concrete (see Note 3)		Reused in the Contract		Reused in other Projects		Disposed as Public Fill		Metals		Paper/cardboard packaging		Plastics (see Note 2)		Chemical Waste		Others, e.g. general refuse	
	(a)		(b)		(c)		(d)		(a-b-c-d)		(in '000 kg)		(in '000 kg)		(in '000 kg)		(in '000 kg)		(in '000 m <sup>3</sup> )	
	Est.	Act.	Est.	Act.	Est.	Act.	Est.	Act.	Est.	Act.	Est.	Act.	Est.	Act.	Est.	Act.	Est.	Act.	Est.	Act.
2013	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.003	0.01
2014	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	0.2	0.16
2015	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	13	14.4	0.2	0.12
2016	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	17	Nil	0.2	0.12
2017	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	10	-	0.15	-
2018	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2020																				
2021																				
Grand Total	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	40	14.4	0.753	0.41

### Notes:

- (1) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.
- (2) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material
- (3) Broken concrete for recycling into aggregates.

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Report No.: 0394/13/ED/0358

Appendix L

Weather Conditions for the Reporting Month

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Report No.: 0394/13/ED/0358

Date	Air Temperature			Mean Relative Humidity (%)	Total Rainfall (mm)
	Maximum (deg. C)	Mean (deg. C)	Minimum (deg. C)		
<b>April 2017</b>					
23	21.8	20.8	19.9	83	1.4
24	22.8	21.5	20.9	83	Trace
25	22.9	21.9	20.7	92	10.9
26	26.8	23.7	22.4	95	2.9
27	24	22.3	20.6	88	3.5
28	24.8	21.8	20.2	74	0
29	27.3	23	19.9	75	0
30	28.2	24	21.4	75	0
<b>May 2017</b>					
1	29.5	25	22.6	81	0
2	28.1	26.1	24.3	85	0
3	31.3	27.5	25.6	82	Trace
4	27.6	24.9	22.9	90	42.5
5	29.8	26.1	23.4	81	0
6	31.1	27.5	25.3	79	Trace
7	27.7	25.6	24.8	86	1.8
8	28.6	25.9	23.1	83	9.2
9	29.3	25.9	22.6	81	10.8
10	29.6	27.1	25.3	81	0
11	31.6	27.5	25.7	81	0
12	30.7	27.5	26	76	Trace
13	26.6	25.8	24.5	80	4.7
14	29.5	26.7	24.8	85	Trace
15	27	25.5	24.6	94	38.5
16	26.6	25	23.6	85	3
17	29.9	26	23.8	77	0
18	27.4	25.5	24.3	74	0.1
19	26	24.6	23.7	80	0.7
20	24.8	23.9	22.7	88	0.3
21	24.9	23.9	23	90	4.4
22	25.2	24.6	23.8	93	5.6

Source: Hong Kong Observatory

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Report No.: 0394/13/ED/0358

**Rainstorm Warning**

Color	Start Time		End Time		Duration hh mm
	hh mm	dd/mon/yyyy	hh mm	dd/mon/yyyy	
Amber	9:40	4-May-17	12:10	4-May-17	02 30

Source: Hong Kong Observatory

**Thunderstorm Warning**

Start Time		End Time		Duration hh mm
hh mm	dd/mon/yyyy	hh mm	dd/mon/yyyy	
15:10	25-Apr-17	20:00	25-Apr-17	04 50
12:40	26-Apr-17	14:30	26-Apr-17	01 50
8:50	4-May-17	15:45	4-May-17	06 55
22:00	8-May-17	0:30	9-May-17	02 30
1:45	9-May-17	3:15	9-May-17	01 30
14:13	10-May-17	16:50	10-May-17	02 37
4:40	15-May-17	16:15	15-May-17	11 35
2:15	16-May-17	6:15	16-May-17	04 00

Source: Hong Kong Observatory