

Installation of Submarine Gas Pipelines and Associated Facilities from To Kwa Wan to North Point for Former Kai Tak Airport Development

Baseline Monitoring Report (Final)

28 May 2012

Environmental Resources Management

21/F Lincoln House
Taikoo Place 979 King's Road
Island East Hong Kong
Telephone 2271 3000
Facsimile 2723 5660

www.erm.com





Environmental Resources Management

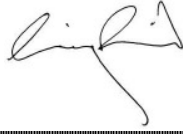



21/F Lincoln House
 979 King's Road
 Taikoo Place
 Island East
 Hong Kong
 Telephone: (852) 2271 3000
 Facsimile: (852) 2723 5660
 E-mail: post.hk@erm.com
 http://www.erm.com

Installation of Submarine Gas Pipelines and Associated Facilities from To Kwa Wan to North Point for Former Kai Tak Airport Development

Baseline Monitoring Report

Revision 4

Document Code: 0158059 Baseline Monitoring Report_v4.doc

Client: MKJV		Project No: 0158059			
Summary: This document presents the Baseline Noise and Marine Water Quality Monitoring Reports for the Installation of Submarine Gas Pipelines and Associated Facilities from To Kwa Wan to North Point for Former Kai Tak Airport Development.		Date: 28 May 2012		Approved by: 	
		Mr Craig Reid Partner			
4	Baseline Monitoring Report	AF/CL	JT/WK	CAR	28/05/12
3	Baseline Monitoring Report	AF/CL	JT/WK	CAR	19/04/12
Revision	Description	By	Checked	Approved	Date
<p>This report has been prepared by Environmental Resources Management the trading name of 'ERM Hong-Kong, Limited', with all reasonable skill, care and diligence within the terms of the Contract with the client, incorporating our General Terms and Conditions of Business and taking account of the resources devoted to it by agreement with the client.</p> <p>We disclaim any responsibility to the client and others in respect of any matters outside the scope of the above.</p> <p>This report is confidential to the client and we accept no responsibility of whatsoever nature to third parties to whom this report, or any part thereof, is made known. Any such party relies on the report at their own risk.</p>		Distribution <input checked="" type="checkbox"/> Internal <input checked="" type="checkbox"/> Public <input type="checkbox"/> Confidential		  	





Installation of Submarine Gas Pipelines and Associated Facilities from To Kwa Wan to North Point for Former Kai Tak Airport Development
Environmental Certification Sheet
Environmental Permit No. EP-401/2010

Reference Document/Plan

Document/ Plan to be Certified/ Verified:	Baseline Monitoring Report (Final)
Date of Report:	25/05/2012
Date prepared by ET:	25/05/2012
Date received by IEC:	25/05/2012

Reference EM&A Manual/ EP Requirement

EM&A Manual Requirement:	Sections 2.5, 9.5 and 12.3
Content:	<i>Baseline Monitoring Report</i>
2.5	"The purpose of the baseline monitoring is to establish ambient conditions prior to the commencement of marine construction works and to demonstrate the suitability of the proposed monitoring stations....."
9.5	"The ET should carry out baseline noise monitoring prior to the commencement of the construction works....."
12.3	"The ET Leader should prepare and submit a Baseline Environmental Monitoring Report within 10 working days of completion of the baseline monitoring. Copies of the Baseline Environmental Monitoring Report should be submitted to all parties: the Contractor, the IEC, the ER and the EPD..... "

EP Condition:	Condition No. 3.3
Content:	<i>Baseline Monitoring Report</i>
3.3	"Four hard copies and one electronic copy of the Baseline Monitoring Report shall be submitted to the Director at least one month before commencement of construction of the Project. The submission shall be certified by the ET Leader and verified by the IEC....."

ET Certification

I hereby certify that the above referenced document/ plan complies with the above referenced condition of EP-401/2010.	
Ms Winnie Ko, Environmental Team Leader:	Date: 25/05/2012

IEC Verification

I hereby verify that the above referenced document/ plan complies with the above referenced condition of EP-401/2010.	
Dr Anne Kerr, Independent Environmental Checker:	Date: 28 May 2012

CONTENTS

	EXECUTIVE SUMMARY	I
1	INTRODUCTION	I
1.1	BACKGROUND	1
1.2	PURPOSE OF THIS REPORT	1
1.3	STRUCTURE OF THE REPORT	2
2	NOISE MONITORING	3
2.1	MONITORING LOCATIONS	3
2.2	MONITORING PARAMETERS, FREQUENCY AND PROGRAMME	3
2.3	MONITORING EQUIPMENT AND METHODOLOGY	3
2.4	BASELINE MONITORING RESULTS	4
2.5	ACTION AND LIMIT LEVELS	5
3	WATER QUALITY MONITORING	6
3.1	MONITORING LOCATION	6
3.2	SAMPLING AND TESTING METHODOLOGY	7
3.3	BASELINE MONITORING RESULTS	8
3.4	ACTION AND LIMIT LEVELS	9
4	CONCLUSION	11
	<i>Annex A Photographs showing Noise Monitoring Stations</i>	
	<i>Annex B Baseline Noise Monitoring Schedule</i>	
	<i>Annex C Calibration Certificates of Sound Level Meters and Sound Level Calibrator</i>	
	<i>Annex D Noise Monitoring Results</i>	
	<i>Annex E Baseline Water Quality Monitoring Schedule</i>	
	<i>Annex F Calibration Reports of Water Quality Monitoring Equipment</i>	
	<i>Annex G QA/ QC Results for Suspended Solids Testing</i>	
	<i>Annex H Baseline Water Quality Monitoring Results</i>	

EXECUTIVE SUMMARY

Baseline Noise Monitoring

Baseline noise monitoring has been conducted between 13 and 28 March 2012 at designated monitoring stations for the Project. The weather condition during the baseline monitoring period varied from sunny to cloudy. No major activities were undertaken during baseline monitoring, and therefore the baseline noise monitoring data is representative of the baseline condition for the Project.

The baseline noise levels ($L_{eq, 30min}$) measured at SSCH02 and FSQ during 0700-1900 hours (daytime) are well within the corresponding construction noise Limit Level stated in the EM&A Manual.

During impact monitoring, the Action Level will be triggered when one complaint is received and the Action and Limit Levels for construction noise are summarized in *Table 1* below.

Table 1 Summary of Action and Limit Levels for Construction Noise

Time Period	Action Level	Limit Level (dB(A))
0700-1900 hrs on normal weekdays	When one documented compliant is received	75*
1900-2300 hrs on normal weekdays	When one documented compliant is received	70
Restricted hours (2300-0700 hrs)	When one documented compliant is received	55

Note:

* 70 dB(A) for schools and 65 dB(A) during school examination periods.

Baseline Water Quality Monitoring

Baseline water quality monitoring has been conducted between 3 and 29 March 2012 at 10 designated monitoring stations (six Sensitive Receiver Stations and four Control Stations) established for the Project. *In situ* water quality measurements and water samples were taken at the monitoring stations three times a week at mid-flood and mid-ebb tides, at three depths (surface, middle and bottom) where practical, for four consecutive weeks prior to the commencement of any marine works for the Project. No major activities influencing water quality were observed in the vicinity of the Project's marine works area during the baseline monitoring. Water quality monitoring results are, therefore, considered to be representative for the baseline conditions of the areas where marine works will be undertaken for the Project.

In accordance with the EM&A Manual, the baseline monitoring results were used to determine the Action and Limit Levels for Dissolved Oxygen (DO), Suspended Solids (SS) and Turbidity for the impact water quality monitoring

which will be conducted during marine works of the Project. The Action and Limit Levels are summarized in *Table 2* below.

Table 2 *Action and Limit Levels for Water Quality* ^(e)

Parameters	Action Level	Limit Level
DO in mg L ⁻¹ (Surface, Middle & Bottom)	<i>WSD Seawater Intakes</i> 2 mg L ⁻¹	Surface and Middle <i>WSD Seawater Intake</i> 2 mg L ⁻¹
	<i>Other Impact Monitoring Stations</i> 5 percentile of baseline data, i.e. 7.79 mg L ⁻¹	<i>Other Impact Monitoring Stations</i> 4 mg L ⁻¹ or 1 percentile of baseline data, i.e. 7.46 mg L ⁻¹
		Bottom <i>Impact Monitoring Stations</i> 2 mg L ⁻¹ or 1 percentile of baseline data, i.e. 7.66 mg L ⁻¹
SS in mg L ⁻¹ (depth-averaged)	<i>WSD Seawater Intakes</i> 10 mg L ⁻¹	<i>WSD Seawater Intake</i> 10 mg L ⁻¹
	<i>Other Impact Monitoring Stations</i> 95 percentile of baseline data, i.e. 5.13 mg L ⁻¹ or 120% of upstream control station at the same tide of the same day	<i>Other Impact Monitoring Stations</i> 99 percentile of baseline data, i.e. 5.53 mg L ⁻¹ or 130% of upstream control station at the same tide of the same day
Turbidity (depth-averaged)	<i>WSD Seawater Intakes</i> 10 NTU	<i>WSD Seawater Intakes</i> 10 NTU
	<i>Other Impact Monitoring Stations</i> 95 percentile of baseline data, i.e. 3.71 NTU or 120% of upstream control station at the same tide of the same day	<i>Other Impact Monitoring Stations</i> 99 percentile of baseline data, i.e. 4.03 NTU or 130% of upstream control station at the same tide of the same day

Notes:

- (a) "Depth-averaged" is calculated by taking the arithmetic means of the readings of the three depths.
- (b) For DO measurement, non-compliance occurs when monitoring result is lower than the limits.
- (c) For SS and turbidity, non-compliance of water quality results when monitoring results is higher than the limits.
- (d) All the figures given in the table are used for reference only the EPD may amend the figures whenever necessary.
- (e) The levels of SS, Turbidity and DO were confirmed to be similar amongst monitoring stations by statistical analysis. Therefore, the calculation of Action and Limit Levels was based on baseline monitoring data collected from all monitoring stations and the same set of Action and Limit Levels will be adopted for the *Impact Monitoring Stations* (ie not including the *WSD Seawater Intakes* and *Control Stations*).

1

INTRODUCTION

1.1

BACKGROUND

The Project proposed by the Hong Kong and China Gas Company Limited comprises the construction of a new gas pipeline network from To Kwa Wan to North Point so as to replace the existing one affected by the proposed Cruise Terminal dredging works adjacent to the former Kai Tak runway and the proposed Central Kowloon Route crossing the Kowloon Bay at To Kwa Wan.

The Project involves the construction of the twin submarine gas pipelines across the Victoria Harbour from To Kwa Wan to North Point and the construction of the land gas pipelines and pigging stations for pigging operation at both To Kwa Wan and North Point. The location of the Project is shown in *Figure 1.1*.

The environmental impact assessment (EIA) report (*Register No.: AEIAR-153/2010*) for the Project was approved by the Director of Environmental Protection (DEP) on 2 August 2010 under the *Environmental Impact Assessment Ordinance (EIAO)*. Subsequent to the approval of the EIA, an *Environmental Permit (EP-401/2010)* for the Project was granted by the DEP on 6 October 2010.

Pursuant to *Condition 3.1* of the *EP*, an environmental monitoring and audit (EM&A) programme as set out in the *EM&A Manual* is required to be implemented. In accordance with the *EM&A Manual*, baseline monitoring of noise and marine water quality should be undertaken for the Project. This *Baseline Monitoring Report* (“the Report”) is prepared by ERM-Hong Kong, Limited (ERM) on behalf of the Hong Kong and China Gas Company Limited to present the methodology and findings of the baseline noise and marine water quality monitoring for the Project. Baseline coral monitoring, which will be undertaken no more than one month before the commencement of dredging operation within 250m from the To Kwa Wan breakwaters as required under the *EM&A Manual*, will be reported in the *Baseline Coral Survey Report* under a separate cover.

1.2

PURPOSE OF THIS REPORT

The purpose of this *Baseline Monitoring Report* is to determine the baseline noise and marine water quality at the designated monitoring locations around the Project works area prior to the commencement of the land and marine works of the Project. Such baseline conditions will be used as the basis for assessing noise and water quality impacts, if any, and for compliance monitoring during the construction of the Project.

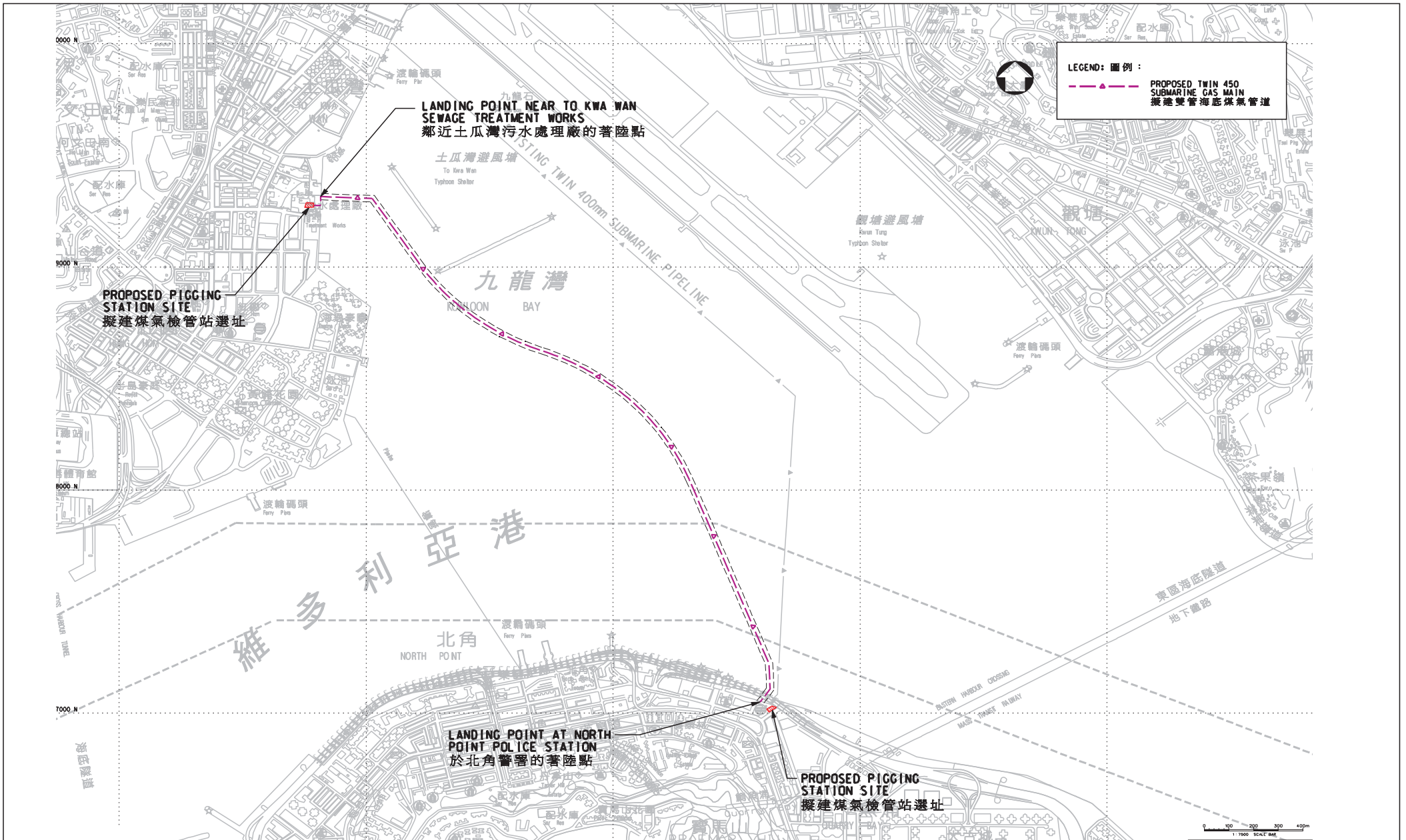


Figure 1.1

General Layout

Under the requirement of *Condition 3.3* of the *EP*, the Baseline Monitoring Report shall be prepared and submitted to the DEP at least one month before the commencement of any construction works of the Project.

1.3

STRUCTURE OF THE REPORT

The remainder of the report is structured as follows:

Section 2: Noise Monitoring - Summaries the noise monitoring locations and frequency, monitoring methodology and baseline monitoring results, and establishes the Action and Limit Levels in accordance with the *EM&A Manual*.

Section 3: Water Quality Monitoring - Summaries the water quality monitoring locations and frequency, monitoring methodology and baseline monitoring results, and establishes the Action and Limit Levels in accordance with the *EM&A Manual*.

Section 4: Conclusion - Concludes the representativeness of the baseline monitoring results for the Project.

2.1 MONITORING LOCATIONS

Baseline noise monitoring has been conducted at the monitoring stations listed in *Table 2.1* and shown in *Figure 2.1* and *Figure 2.2*. Photographs showing the monitoring stations are presented in *Annex A*.

Table 2.1 *Noise Monitoring Station*

Monitoring Station	Area	Description
SSCH02	To Kwa Wan	CCC Kei To Secondary School
FSQ	North Point	North Point Fire Services Married Quarters

2.2 MONITORING PARAMETERS, FREQUENCY AND PROGRAMME

Baseline noise monitoring was conducted between 13 and 28 March 2012 at a logging interval of 5 minutes for daytime and evening, holidays and night-time. Fourteen (14) consecutive days of sampling was carried at both SSCH02 and FSQ monitoring station. The baseline noise monitoring at FSQ was cancelled in the afternoon on 26 March 2012 due to façade renovation works, therefore, the baseline monitoring at FSQ has been extended to 28 March 2012. The baseline monitoring programme is shown in *Annex B*.

The baseline noise levels were measured in terms of A-weighted equivalent continuous sound pressure level (L_{eq}) in decibels dB(A). In order to collect supplementary information for data auditing, two statistical sound levels: L_{10} and L_{90} (ie the levels exceeded for 10 and 90 percent of the time, respectively), were also recorded during the monitoring for reference. The baseline noise levels were measured at façade and therefore, no correction is required.

2.3 MONITORING EQUIPMENT AND METHODOLOGY

Noise measurements were conducted in accordance with the calibration and measurement procedures as stated in *Annex – General Calibration and Measurement Procedures of Technical Memorandum on Noise from Construction Work other than Percussive Piling (GW-TM)* issued under the *Noise Control Ordinance (NCO) (Cap.400)*.

The sound level meters and calibrator used for the noise measurement, as listed in *Table 2.2*, complied with IEC 651: 1979 and 804:1985 (Type 1) specification. Sun Creation Engineering Ltd, a calibration and testing laboratory, calibrated and certified the sound level meters and calibrator. The calibration certificates of the sound level meters and calibrator are given in *Annex C*.

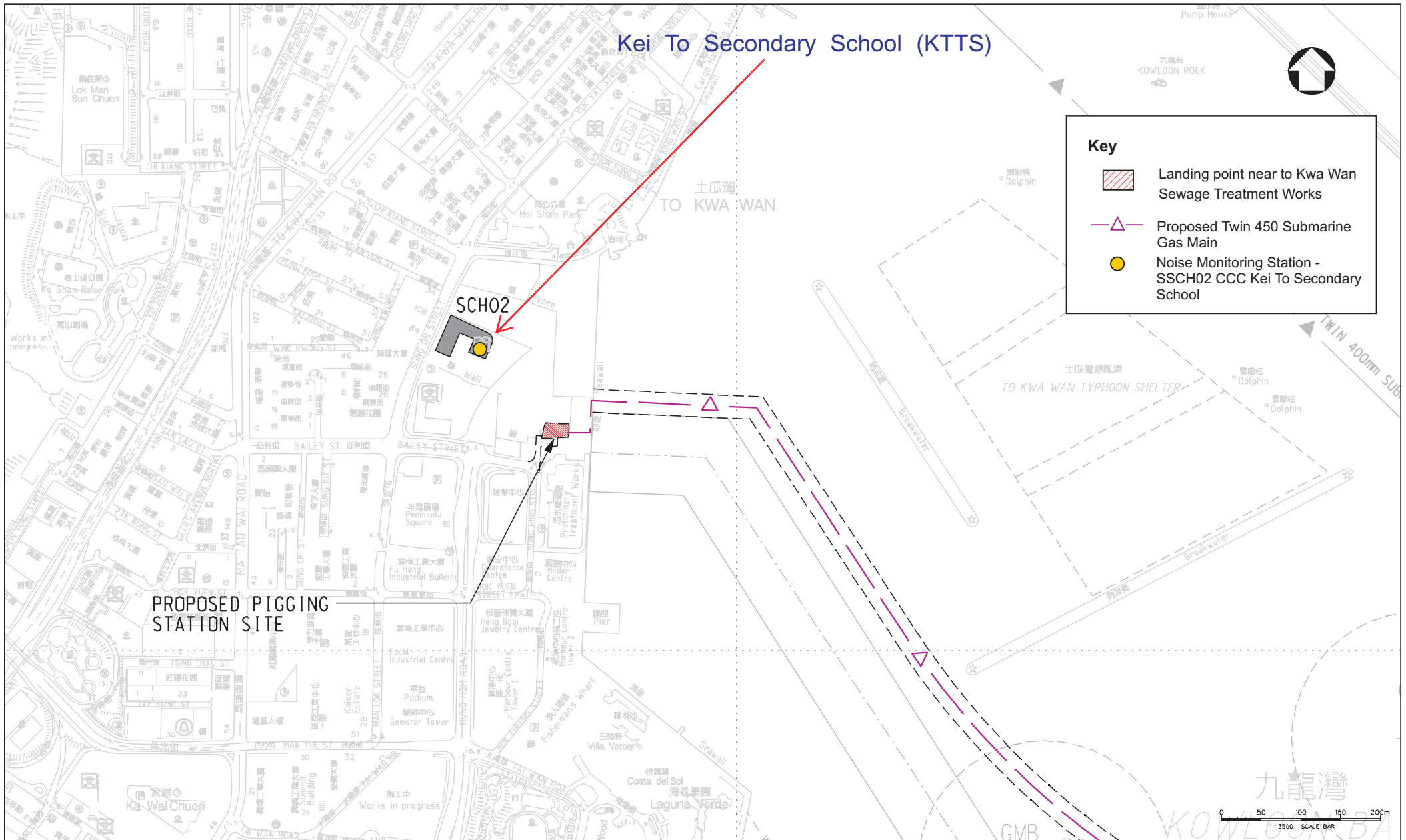


Figure 2.1

Location of Noise Monitoring Station (To Kwa Wan)

Table 2.2 Noise Monitoring Equipment

Monitoring Station	Monitoring Equipment (Sound Level Meter and Calibrator)
SSCH02	Rion NL-31 (S/N 00410224), NC-73 (S/N 10786708)
FSQ	Rion NL-31 (S/N 00603867), NC-73 (S/N 10786708)

Immediately prior to and following the noise measurements, the accuracy of the measurement equipment was checked using an acoustic calibrator generating a known sound pressure level at a known frequency. Measurements were accepted as the calibration level from before and after the noise measurement agree to within 1.0 dB.

2.4 BASELINE MONITORING RESULTS

The baseline noise monitoring results are summarized in *Table 2.3* and the monitoring data together with graphical presentations are presented in *Annex D*. The weather condition during the baseline monitoring period varied from sunny to cloudy. The steady wind speed during the baseline monitoring period varied from 0.2 to 1.5ms⁻¹ and 0.5 to 2.5ms⁻¹ for SSCH02 and FSQ, respectively.

Table 2.3 Summary of Noise Monitoring Results

Noise Monitoring Stations	Average L _{Aeq, 30min} , dB(A) (0700 – 1900 hours on normal weekday) (range of data)	Average L _{Aeq, 5min} , dB(A) (0700 – 1900 hours on holiday) (range of data)
SSCH02	64.2 (59.8-69.3)	65.4 (56.5-78.5)
FSQ	72.7 (68.7-74.3)	70.9 (67.8-75.1)
Limit Level as specified in the EM&A Manual	75 70 (schools) 65 (during school examination period)	

For noise monitoring station SSCH02 (ie CCC Kei To Secondary School), the measured baseline noise levels during 0700-1900 hours (ie daytime) on normal weekday are well within 70dB(A), which is the daytime construction noise Limit Level specified in the EM&A Manual for normal teaching period. The 14 day average L_{Aeq, 30min} measured during 0700-1900 hours on normal weekday are also well within 65dB(A) which is the Limit Level for daytime construction noise during school examination period as stated in the EM&A Manual. The measured noise levels were influenced mainly by traffic noise from Sung On Street.

For the noise monitoring station FSQ, the measured baseline noise levels (L_{eq, 30min}) during 0700-1900 hours (daytime) on normal weekdays are well within 75dB(A), which is the daytime construction noise Limit Level under the EM&A Manual. The measured noise levels were influenced mainly by traffic noise from Island Eastern Corridor.

The baseline noise monitoring results indicate that noise levels measured at these monitoring stations are of similar magnitude (please refer to *Annex D* for

detailed results). Also, there were no major construction activities influencing the ambient noise levels at SSCH02 and FSQ during the baseline monitoring. The monitoring at SSCH02 and FSQ are thus considered to be representative of the baseline condition at the impact monitoring stations located at CCC Kei To Secondary School and North Point Fire Services Married Quarters.

2.5

ACTION AND LIMIT LEVELS

For impact monitoring during construction of the Project, the Action Level will be triggered when one complaint is received for the Project.

At noise monitoring station SSCH02, 70dB(A) and 65dB(A) will be adopted as the Limit Levels during the normal teaching and examination periods, respectively.

At FSQ, 75dB(A) will be adopted as the Limit Level during normal weekdays. The Action and Limit Levels for construction noise are summarized in *Table 2.4*.

Table 2.4 *Summary of Action and Limit Levels for Construction Noise*

Time Period	Action Level	Limit Level (dB(A))
0700-1900 hrs on normal weekdays	When one documented compliant is received	75*
1900-2300 hrs on normal weekdays	When one documented compliant is received	70
Restricted hours (2300-0700 hrs)	When one documented compliant is received	55

Note:

* 70 dB(A) for schools and 65 dB(A) during school examination periods.

3.1 MONITORING LOCATION

Baseline water quality monitoring was conducted prior to the commencement of marine works at the monitoring stations listed in *Table 3.1* and shown in *Figure 3.1*.

Table 3.1 Water Quality Monitoring Stations

Monitoring Station	Area	Easting	Northing
WM1	Tai Wan WSD Seawater Intake	837818.8258	818059.9297
WM2	City Garden	838278.6734	817209.9656
WM3	Provident Centre	838443.5777	817233.5234
WM4	North Point Government Offices	839536.1868	817215.6195
WM5	Quarry Bay WSD Seawater Intake	839781.4231	817107.8097
WM6	Taikoo Place	840026.6594	817000
C1	Control Station	836625.9264	817422.6424
C2	Control Station	836747.9445	816670.1762
C3	Control Station	840810.5828	817825.8986
C4	Control Station	840432.5877	816920.1674

In accordance with the EM&A Manual, baseline monitoring were conducted at six Water Sensitive Receivers (WM1, WM2, WM3, WM4, WM5 and WM6) as well as four Control stations (C1, C2, C3 and C4) (*Table 3.1*) at a frequency of three times a week for four consecutive weeks prior to the commencement of any marine works for the Project. Monitoring was undertaken at mid-flood and mid-ebb tides during each monitoring day. The tidal range selected for the baseline monitoring was at least 0.5 m for both flood and ebb tides as far as practicable. The interval between two sets of consecutive monitoring was not less than 36 hours.

For scheduling, reference were made to the predicted tides at Quarry Bay, which is the tidal station nearest to the Project Site, published on the website of the Hong Kong Observatory ⁽¹⁾. Based on the predicted tidal levels at Quarry Bay, the baseline water quality monitoring was conducted between 3 March and 29 March 2012, following the schedule presented in *Annex E*. Schedule for baseline monitoring has been submitted to the Contractor, Independent Environmental Checker (IEC), Engineer Representative (ER) and Environmental Protection Department (EPD) one week prior to the commencement of the monitoring works.

⁽¹⁾ Hong Kong Observatory (2012) <http://www.hko.gov.hk/tide/eQUBtide.htm> [Accessed in March 2012]

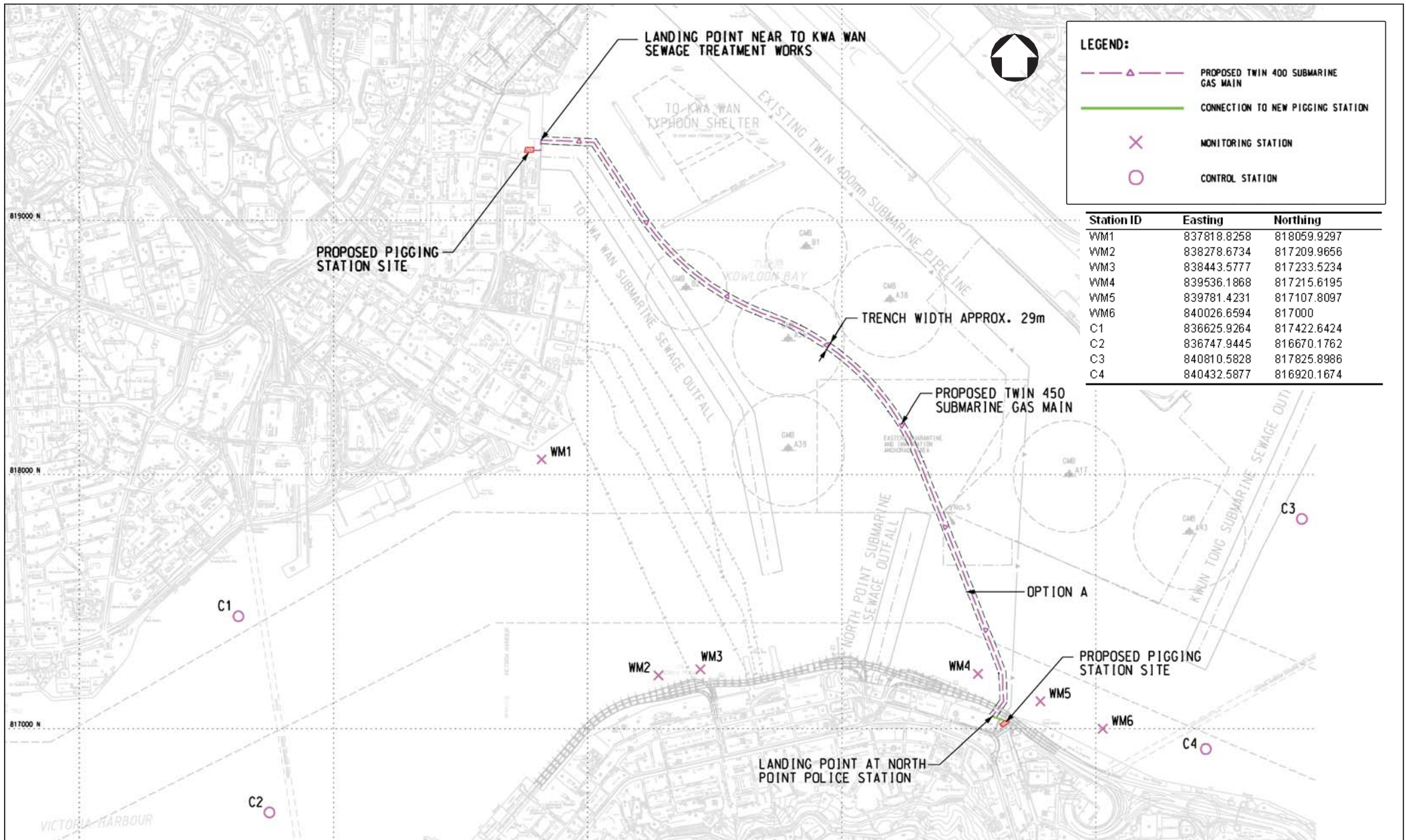


Figure 3.1

Location of Water Quality Monitoring Stations

3.2 SAMPLING AND TESTING METHODOLOGY

3.2.1 Monitoring Parameters

The parameters measured *in situ* were:

- Dissolved Oxygen (DO) (% saturation and mg L⁻¹)
- Salinity (ppt)
- Temperature (°C)
- Turbidity (NTU)

The only parameter to be measured in the laboratory was:

- Suspended solids (SS) (mg L⁻¹)

In addition to the water quality parameters, other relevant data were measured and recorded in Water Quality Monitoring Logs, including monitoring location, time, tidal stages, weather conditions and any special phenomenon or work underway at the construction site that may influence the monitoring results.

3.2.2 Monitoring Equipment

Table 3.2 summaries the equipment used for the baseline water quality monitoring.

Table 3.2 Equipment used during the Baseline Water Quality Monitoring Programme

Equipment	Model
Global Positioning Device	Garmin etrex 10
Water Depth Detector (Echo sounder)	Speedtech Instrument SM-5A
Water Sampler	1510 Kemmerer Water Sampler
Salinity, DO, Temperature Measuring Meter	YSI Pro 2030
Turbidity Meter	HACH Model 2100P Turbid Meter

3.2.3 Sampling/ Testing Protocol

All *in situ* monitoring instruments were checked, calibrated and certified by the analytical laboratory before use (see calibration reports in *Annex F*) ⁽¹⁾. Responses of sensors and electrodes were checked with certified standard solutions before each use.

Wet bulb calibration for a DO probe was carried out at least once per monitoring day. A zero check in distilled water was performed with the turbidity probe at least once per monitoring day. The probe was calibrated

⁽¹⁾ Baseline water quality monitoring was undertaken by the HOKLAS accredited laboratory ETS-Testconsult Ltd.

with a solution of known NTU. In addition, the turbidity probe was calibrated at least twice per month to establish the relationship between turbidity readings (in NTU) and levels of suspended solids (in mg L⁻¹).

On-site calibration of equipment was also carried out following the “*Guide to On-Site Test Methods for the Analysis of Waters*”, BS 1427:1993 to check the responses of sensors and electrodes using certified standard solutions before each use. Sufficient stocks of spare parts were maintained for replacements when necessary. Backup monitoring equipment was made available so that monitoring can proceed uninterrupted even when equipment is under maintenance, calibration etc.

Water samples for SS measurements were collected in high density polythene, packed in ice (cooled to 4 °C without being frozen) and delivered to the analytical laboratory as soon as possible after collection.

3.2.4 Laboratory Analysis

Analysis of suspended solids was carried out in a HOKLAS accredited laboratory ⁽¹⁾. Water samples of about 1L were collected at the monitoring stations for carrying out the laboratory suspended solids determination. The SS determination work started within 24 hours after the collection of the water samples. The SS analyses followed the standard method APHA 2540D with a detection limit of 1 mg L⁻¹ as described in *APHA Standard Methods for the Examination of Water and Wastewater, 21st Edition*, unless specified.

Quality Assurance/ Quality Control (QA/ QC) details (such as blank, spike recovery, number of duplicate samples per batch etc) were provided in accordance with requirements of HOKLAS (details refer to *Annex G*).

3.2.5 Sampling Depths & Replication

Each station was sampled and measurements/ water samples were taken at three depths, namely, 1 m below water surface, mid-depth and 1 m above sea bed, except where the water depth less than 6 m, the mid-depth station may be omitted. For stations that are less than 3 m in depth, only the mid-depth sample was taken.

For *in situ* measurements, duplicate readings were made at each water depth at each station. Duplicate water samples were collected at each water depth at each station.

3.3 BASELINE MONITORING RESULTS

The monitoring data and graphical presentations for baseline water quality monitoring are provided in *Annex H*. No marine construction activities were observed in the vicinity of the monitoring stations during the baseline monitoring. No other major activities influencing water quality were

⁽¹⁾ Baseline water quality monitoring was undertaken by the HOKLAS accredited laboratory ETS-Testconsult Ltd.

identified during the monitoring period, and weather conditions were generally calm during the baseline monitoring period.

Whilst no major observable trends were noted from the monitoring results, the following was observed:

- Monitoring results from Sensitive Receiver stations and Control stations were generally similar, hence baseline conditions were similar across stations. Differences in water quality between Sensitive Receiver and Control stations were not observed;
- For all monitoring stations, water quality was variable throughout the baseline monitoring period and this represented natural fluctuation in water quality ;
- Dissolved Oxygen (DO) levels at all depths were generally high for all samples, DO levels $<4 \text{ mg L}^{-1}$ were not recorded;
- Although turbidity levels were generally similar among all stations, relatively higher levels of turbidity were occasionally recorded at Control Station C1 and C2 and Sensitive Receiver Station WM4 during mid-ebb tidal condition. During mid-flood tidal condition, relatively higher levels of turbidity were occasionally recorded at Control Stations C1 and C2 and Sensitive Receiver Station WM3;
- Similar to turbidity levels, occasional higher levels of suspended solids (SS) were recorded at Sensitive Receiver Station WM3 during mid-ebb tidal condition. During mid-flood tidal condition, relatively higher levels of SS were recorded at Sensitive Receiver Stations WM1 and WM3.
- The above sporadic patterns of relatively high levels of turbidity and SS in the water monitoring stations are considered to be a characteristic of water quality in this area of Hong Kong.

3.4

ACTION AND LIMIT LEVELS

The Action and Limit Levels have been determined based on the *EM&A Manual* and the baseline water quality monitoring results. The proposed Action and Limit Levels for Impact Monitoring of water quality for Dissolved Oxygen (mg/L), Suspended Solids (mg L^{-1}) and Turbidity (NTU) are summarized in *Table 3.3*.

Table 3.3 Action and Limit Levels for Water Quality ^(e)

Parameters	Action Level	Limit Level
DO in mg L ⁻¹ (Surface, Middle & Bottom)	<i>WSD Seawater Intakes</i> 2 mg L ⁻¹	Surface and Middle <i>WSD Seawater Intake</i> 2 mg L ⁻¹
	<i>Other Impact Monitoring Stations</i> 5 percentile of baseline data, i.e. 7.79 mg L ⁻¹	<i>Other Impact Monitoring Stations</i> 4 mg L ⁻¹ or 1 percentile of baseline data, i.e. 7.46 mg L ⁻¹
		Bottom <i>Impact Monitoring Stations</i> 2 mg L ⁻¹ or 1 percentile of baseline data, i.e. 7.66 mg L ⁻¹
SS in mg L ⁻¹ (depth-averaged)	<i>WSD Seawater Intakes</i> 10 mg L ⁻¹	<i>WSD Seawater Intake</i> 10 mg L ⁻¹
	<i>Other Impact Monitoring Stations</i> 95 percentile of baseline data, i.e. 5.13 mg L ⁻¹ or 120% of upstream control station at the same tide of the same day	<i>Other Impact Monitoring Stations</i> 99 percentile of baseline data, i.e. 5.53 mg L ⁻¹ or 130% of upstream control station at the same tide of the same day
Turbidity (depth-averaged)	<i>WSD Seawater Intakes</i> 10 NTU	<i>WSD Seawater Intakes</i> 10 NTU
	<i>Other Impact Monitoring Stations</i> 95 percentile of baseline data, i.e. 3.71 NTU or 120% of upstream control station at the same tide of the same day	<i>Other Impact Monitoring Stations</i> 99 percentile of baseline data, i.e. 4.03 NTU or 130% of upstream control station at the same tide of the same day

Notes:

- (a) "Depth-averaged" is calculated by taking the arithmetic means of the readings of the three depths.
- (b) For DO measurement, non-compliance occurs when monitoring result is lower than the limits.
- (c) For SS and turbidity, non-compliance of water quality results when monitoring results is higher than the limits.
- (d) All the figures given in the table are used for reference only the EPD may amend the figures whenever necessary.
- (e) The levels of SS, Turbidity and DO were confirmed to be similar amongst monitoring stations by statistical analysis. Therefore, the calculation of Action and Limit Levels was based on baseline monitoring data collected from all monitoring stations and the same set of Action and Limit Levels will be adopted for the *Impact Monitoring Stations* (ie not including the *WSD Seawater Intakes* and *Control Stations*).

Baseline noise monitoring has been conducted between 13 and 28 March 2012 at the designated monitoring station CCC Kei To Secondary School (SSCH02) and North Point Fire Services Married Quarters (FSQ). The weather condition during the baseline monitoring period varied from sunny to cloudy. There was no major construction activity influencing the ambient noise at SSCH02 and FSQ. Monitoring results indicate that the collected noise data is representative of the baseline condition at the impact monitoring locations.

During impact monitoring, the Action Level will be triggered when one complaint is received and the Action and Limit Levels for construction noise are summarized in *Table 4.1* below.

Table 4.1 *Summary of Action and Limit Levels for Construction Noise*

Time Period	Action Level	Limit Level (dB(A))
0700-1900 hrs on normal weekdays	When one documented compliant is received	75*
1900-2300 hrs on normal weekdays	When one documented compliant is received	70
Restricted hours (2300-0700 hrs)	When one documented compliant is received	55

Note:

* 70 dB(A) for schools and 65 dB(A) during school examination periods.

Baseline water quality monitoring has been conducted between 3 and 29 March 2012 at 10 designated monitoring stations (including 6 Sensitive Receiver Stations and 4 Control Stations). During the monitoring period, no major activities influencing water quality were observed in the vicinity of the Project's marine works area. Water quality monitoring results are, therefore, considered to be representative of the baseline conditions of the areas where marine works will be undertaken for the Project.

The proposed Action and Limit Levels for DO, SS and Turbidity listed in *Table 4.2* below will be adopted for impact monitoring which will be conducted when marine works (ie dredging, pipe-laying and backfilling) are being carried out for the Project.

Table 4.2 *Action and Limit Levels for Water Quality* ^(e)

Parameters	Action Level	Limit Level
DO in mg L ⁻¹ (Surface, Middle & Bottom)	<i>WSD Seawater Intakes</i> 2 mg L ⁻¹	Surface and Middle <i>WSD Seawater Intake</i> 2 mg L ⁻¹
	<i>Other Impact Monitoring Stations</i> 5 percentile of baseline data, i.e. 7.79 mg L ⁻¹	<i>Other Impact Monitoring Stations</i> 4 mg L ⁻¹ or 1 percentile of baseline data, i.e. 7.46 mg L ⁻¹
		Bottom <i>Impact Monitoring Stations</i> 2 mg L ⁻¹ or 1 percentile of baseline data, i.e. 7.66 mg L ⁻¹
SS in mg L ⁻¹ (depth-averaged)	<i>WSD Seawater Intakes</i> 10 mg L ⁻¹	<i>WSD Seawater Intake</i> 10 mg L ⁻¹
	<i>Other Impact Monitoring Stations</i> 95 percentile of baseline data, i.e. 5.13 mg L ⁻¹ or 120% of upstream control station at the same tide of the same day	<i>Other Impact Monitoring Stations</i> 99 percentile of baseline data, i.e. 5.53 mg L ⁻¹ or 130% of upstream control station at the same tide of the same day
Turbidity (depth-averaged)	<i>WSD Seawater Intakes</i> 10 NTU	<i>WSD Seawater Intakes</i> 10 NTU
	<i>Other Impact Monitoring Stations</i> 95 percentile of baseline data, i.e. 3.71 NTU or 120% of upstream control station at the same tide of the same day	<i>Other Impact Monitoring Stations</i> 99 percentile of baseline data, i.e. 4.03 NTU or 130% of upstream control station at the same tide of the same day

Notes:

- (a) "Depth-averaged" is calculated by taking the arithmetic means of the readings of the three depths.
- (b) For DO measurement, non-compliance occurs when monitoring result is lower than the limits.
- (c) For SS and turbidity, non-compliance of water quality results when monitoring results is higher than the limits.
- (d) All the figures given in the table are used for reference only the EPD may amend the figures whenever necessary.
- (e) The levels of SS, Turbidity and DO were confirmed to be similar amongst monitoring stations by statistical analysis. Therefore, the calculation of Action and Limit Levels was based on baseline monitoring data collected from all monitoring stations and the same set of Action and Limit Levels will be adopted for the *Impact Monitoring Stations* (ie not including the *WSD Seawater Intakes* and *Control Stations*).

Annex A

Photographs showing Noise Monitoring Stations



Kei To Secondary School (KTSS)



Monitoring location at KTSS



Set-up of noise monitoring equipment at KTSS



North Point Fire Services Married Quarters (FSQ)



Monitoring location at FSQ



Set-up of noise monitoring equipment at FSQ

Figure A

PHOTOS OF NOISE MONITORING STATION

Date 13 March 2012

Environmental Resources Management  ERM

Annex B

Baseline Noise Monitoring Schedule

**Installation of Submarine Gas Pipelines and Associated Facilities
from To Kwa Wan to North Point for Former Kai Tak Airport Development
Baseline Noise Monitoring Schedule**

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
27-Feb	28-Feb	29-Feb	01-Mar	02-Mar	03-Mar	04-Mar
05-Mar	06-Mar	07-Mar	08-Mar	09-Mar	10-Mar	11-Mar
12-Mar	13-Mar	14-Mar	15-Mar	16-Mar	17-Mar	18-Mar
	Noise Monitoring at SCH02 and FSQ	Noise Monitoring at SCH02 and FSQ	Noise Monitoring at SCH02 and FSQ	Noise Monitoring at SCH02 and FSQ	Noise Monitoring at SCH02 and FSQ	Noise Monitoring at SCH02 and FSQ
19-Mar	20-Mar	21-Mar	22-Mar	23-Mar	24-Mar	25-Mar
Noise Monitoring at SCH02 and FSQ	Noise Monitoring at SCH02 and FSQ	Noise Monitoring at SCH02 and FSQ	Noise Monitoring at SCH02 and FSQ	Noise Monitoring at SCH02 and FSQ	Noise Monitoring at SCH02 and FSQ	Noise Monitoring at SCH02 and FSQ
26-Mar	27-Mar	28-Mar	29-Mar	30-Mar	31-Mar	01-Apr
Noise Monitoring at SCH02 Noise Monitoring at FSQ (Morning only)*	Noise Monitoring at SCH02 and FSQ	Noise Monitoring at FSQ (Morning only)*				

SCH02 - CCC Kei To Secondary School

FSQ - North Point Fire Service Married Quarters

* - Monitoring at FSQ at 26 March afternoon has been cancelled due to facsad renovation works. Therefore the baseline monitoring has been extended to 28 March morning.

Annex C

Calibration Certificates of Sound Level Meters and Calibrator

Certificate No. : C113270

Certificate of Calibration

This is to certify that the equipment

Description : Sound Level Meter

Manufacturer : Rion

Model No. : NL-31

Serial No. : 00410224

has been calibrated for the specific items and ranges.

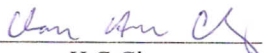
The results are shown in the Calibration Report No. C113270.

The equipment is supplied by

Co. Name : Envirotech Services Co.

*Address : Shop 6, G/F., Casio Mansion, 209 Shaukeiwan Road,
Hong Kong*

Date of Issue : 10 June 2011

Certified by : 
H C Chan

The test equipment used for calibration are traceable to the National Standards as specified in this report.
This report shall not be reproduced except in full and with prior written approval from this laboratory.

Report No. : C113270

Calibration Report

ITEM TESTED

DESCRIPTION : Sound Level Meter
MANUFACTURER : Rion
MODEL NO. : NL-31
SERIAL NO. : 00410224

TEST CONDITIONS

AMBIENT TEMPERATURE : $(23 \pm 2)^{\circ}\text{C}$ RELATIVE HUMIDITY : $(55 \pm 20)\%$
LINE VOLTAGE : ---

TEST SPECIFICATIONS

Calibration check

DATE OF TEST : 10 June 2011

JOB NO. : IC11-1416

TEST RESULTS

The results apply to the particular unit-under-test only.
All results are within manufacturer's specification.
The results are detailed in the subsequent page(s).

The test equipment used for calibration are traceable to National Standards via :

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory
- The Bruel & Kjaer Calibration Laboratory, Denmark
- Rohde & Schwarz Laboratory, Germany
- Fluke Everett Service Center, USA
- Agilent Technologies, USA

Tested by :



K C Lee

Date : 10 June 2011

The test equipment used for calibration are traceable to the National Standards as specified in this report.
This report shall not be reproduced except in full and with prior written approval from this laboratory.

Calibration Report

1. The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 24 hours, and switched on to warm up for over 10 minutes before the commencement of the test.
2. Self-calibration was performed before the test.
3. The results presented are the mean of 3 measurements at each calibration point.
4. Test equipment :

Equipment ID	Description	Certificate No.
CL280	40 MHz Arbitrary Waveform Generator	C110018
CL281	Multifunction Acoustic Calibrator	C1006860

5. Test procedure : MA101N.

6. Results :

6.1 Sound Pressure Level

6.1.1 Reference Sound Pressure Level

UUT Setting				Applied Value		UUT Reading (dB)	IEC 60651 Type 1 Spec. (dB)
Range (dB)	Mode	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)		
30 - 120	L _A	A	Fast	94.00	1	93.9	± 0.7

6.1.2 Linearity

UUT Setting				Applied Value		UUT Reading (dB)
Range (dB)	Mode	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)	
30 - 120	L _A	A	Fast	94.00	1	93.9 (Ref.)
				104.00		103.9
				114.00		113.9

IEC 60651 Type 1 Spec. : ± 0.4 dB per 10 dB step and ± 0.7 dB for overall different.

6.2 Time Weighting

6.2.1 Continuous Signal

UUT Setting				Applied Value		UUT Reading (dB)	IEC 60651 Type 1 Spec. (dB)
Range (dB)	Mode	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)		
30 - 120	L _A	A	Fast	94.00	1	93.9	Ref.
			Slow				

Calibration Report

6.2.2 Tone Burst Signal (2 kHz)

UUT Setting				Applied Value		UUT Reading (dB)	IEC 60651 Type 1 Spec. (dB)
Range (dB)	Mode	Frequency Weighting	Time Weighting	Level (dB)	Burst Duration		
20 - 110	L _A	A	FAST	106.00	Continuous	106.0	Ref.
	L _{AMAX}				200 ms	105.1	-1.0 ± 1.0
	L _A	SLOW	Continuous		106.0	Ref.	
	L _{AMAX}		500 ms		102.0	-4.1 ± 1.0	

6.3 Frequency Weighting

6.3.1 A-Weighting

UUT Setting				Applied Value		UUT Reading (dB)	IEC 60651 Type 1 Spec. (dB)
Range (dB)	Mode	Frequency Weighting	Time Weighting	Level (dB)	Freq.		
30 - 120	L _A	A	Fast	94.00	31.5 Hz	54.2	-39.4 ± 1.5
					63 Hz	67.6	-26.2 ± 1.5
					125 Hz	77.7	-16.1 ± 1.0
					250 Hz	85.2	-8.6 ± 1.0
					500 Hz	90.7	-3.2 ± 1.0
					1 kHz	93.9	Ref.
					2 kHz	95.2	+1.2 ± 1.0
					4 kHz	95.0	+1.0 ± 1.0
					8 kHz	92.9	-1.1 (+1.5 ; -3.0)
					12.5 kHz	90.0	-4.3 (+3.0 ; -6.0)

6.3.2 C-Weighting

UUT Setting				Applied Value		UUT Reading (dB)	IEC 60651 Type 1 Spec. (dB)
Range (dB)	Mode	Frequency Weighting	Time Weighting	Level (dB)	Freq.		
30 - 120	L _C	C	Fast	94.00	31.5 Hz	90.7	-3.0 ± 1.5
					63 Hz	93.0	-0.8 ± 1.5
					125 Hz	93.7	-0.2 ± 1.0
					250 Hz	93.9	0.0 ± 1.0
					500 Hz	93.9	0.0 ± 1.0
					1 kHz	93.9	Ref.
					2 kHz	93.8	-0.2 ± 1.0
					4 kHz	93.3	-0.8 ± 1.0
					8 kHz	91.0	-3.0 (+1.5 ; -3.0)
					12.5 kHz	88.1	-6.2 (+3.0 ; -6.0)

The test equipment used for calibration are traceable to the National Standards as specified in this report. This report shall not be reproduced except in full and with prior written approval from this laboratory.

Calibration Report

6.4 Time Averaging

UUT Setting				Applied Value					UUT	IEC 60804	
Range (dB)	Mode	Frequency Weighting	Time Weighting	Freq. (kHz)	Burst Duration (ms)	Burst Duty Factor	Burst Level (dB)	Equivalent Level (dB)	Reading (dB)	Type 1 Spec. (dB)	
20 - 110	L _{Aeq}	A	10 sec.	4	1	1/10	110.0	100	100.0	± 0.5	
								1/10 ²	90	90.0	± 0.5
			60 sec.					1/10 ³	80	80.0	± 1.0
			5 min.					1/10 ⁴	70	70.0	± 1.0

Remarks : - Mfr's Spec. : IEC 60651 Type 1 & IEC 60804 Type 1

- Uncertainties of Applied Value : 94 dB : 31.5 Hz - 125 Hz : ± 0.35 dB
 250 Hz - 500 Hz : ± 0.30 dB
 1 kHz : ± 0.20 dB
 2 kHz - 4 kHz : ± 0.35 dB
 8 kHz : ± 0.45 dB
 12.5 kHz : ± 0.70 dB
 104 dB : 1 kHz : ± 0.10 dB (Ref. 94 dB)
 114 dB : 1 kHz : ± 0.10 dB (Ref. 94 dB)
 Burst equivalent level : ± 0.2 dB (Ref. 110 dB continuous sound level)

- The uncertainties are for a confidence probability of not less than 95 %.

Note :

The values given in this Calibration Report only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance for the equipment long term drift, variations with environment changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Sun Creation Engineering Limited shall not be liable for any loss or damage resulting from the use of the equipment.

Certificate No. : C113827

Certificate of Calibration

This is to certify that the equipment

Description : Sound Level Meter

Manufacturer : Rion

Model No. : NL-31

Serial No. : 00603867

*has been calibrated for the specific items and ranges.
The results are shown in the Calibration Report No. C113827.*

The equipment is supplied by

Co. Name : Envirotech Services Co.

*Address : Shop 6, G/F., Casio Mansion, 209 Shaukeiwan Road,
Hong Kong*

Date of Issue : 8 July 2011

Certified by :


H C Chan

Report No. : C113827

Calibration Report

ITEM TESTED

DESCRIPTION : Sound Level Meter
MANUFACTURER : Rion
MODEL NO. : NL-31
SERIAL NO. : 00603867

TEST CONDITIONS

AMBIENT TEMPERATURE : $(23 \pm 2)^{\circ}\text{C}$ RELATIVE HUMIDITY : $(55 \pm 20)\%$
LINE VOLTAGE : ---

TEST SPECIFICATIONS

Calibration check

DATE OF TEST : 7 July 2011

JOB NO. : IC11-1657

TEST RESULTS

The results apply to the particular unit-under-test only.
All results are within manufacturer's specification.
The results are detailed in the subsequent page(s).

The test equipment used for calibration are traceable to National Standards via :

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory
- The Bruel & Kjaer Calibration Laboratory, Denmark
- Rohde & Schwarz Laboratory, Germany
- Fluke Everett Service Center, USA
- Agilent Technologies, USA

Tested by :


KC Lee

Date : 8 July 2011

The test equipment used for calibration are traceable to the National Standards as specified in this report.
This report shall not be reproduced except in full and with prior written approval from this laboratory.

Calibration Report

1. The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 24 hours, and switched on to warm up for over 10 minutes before the commencement of the test.
2. Self-calibration was performed before the test.
3. The results presented are the mean of 3 measurements at each calibration point.
4. Test equipment :

<u>Equipment ID</u>	<u>Description</u>	<u>Certificate No.</u>
CL280	40 MHz Arbitrary Waveform Generator	C110018
CL281	Multifunction Acoustic Calibrator	C1006860

5. Test procedure : MA101N.

6. Results :

6.1 Sound Pressure Level

6.1.1 Reference Sound Pressure Level

UUT Setting				Applied Value		UUT Reading (dB)	IEC 61672 Class 1 Spec. (dB)
Range (dB)	Mode	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)		
30 - 120	L _A	A	Fast	94.00	1	94.0	± 1.1

6.1.2 Linearity

UUT Setting				Applied Value		UUT Reading (dB)
Range (dB)	Mode	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)	
30 - 120	L _A	A	Fast	94.00	1	94.0 (Ref.)
				104.00		104.0
				114.00		113.9

IEC 61672 Class 1 Spec. : ± 0.6 dB per 10 dB step and ± 1.1 dB for overall different.

6.2 Time Weighting

UUT Setting				Applied Value		UUT Reading (dB)	IEC 61672 Class 1 Spec. (dB)
Range (dB)	Mode	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)		
30 - 120	L _A	A	Fast	94.00	1	94.0	Ref.
			Slow			93.9	± 0.3

Calibration Report

6.3 Frequency Weighting

6.3.1 A-Weighting

UUT Setting				Applied Value		UUT Reading (dB)	IEC 61672 Class 1 Spec. (dB)
Range (dB)	Mode	Frequency Weighting	Time Weighting	Level (dB)	Freq.		
30 - 120	L _A	A	Fast	94.00	63 Hz	67.7	-26.2 ± 1.5
					125 Hz	77.7	-16.1 ± 1.5
					250 Hz	85.3	-8.6 ± 1.4
					500 Hz	90.7	-3.2 ± 1.4
					1 kHz	94.0	Ref.
					2 kHz	95.3	+1.2 ± 1.6
					4 kHz	95.1	+1.0 ± 1.6
					8 kHz	93.0	-1.1 (+2.1 ; -3.1)
					12.5 kHz	90.1	-4.3 (+3.0 ; -6.0)

6.3.2 C-Weighting

UUT Setting				Applied Value		UUT Reading (dB)	IEC 61672 Class 1 Spec. (dB)
Range (dB)	Mode	Frequency Weighting	Time Weighting	Level (dB)	Freq.		
30 - 120	L _C	C	Fast	94.00	63 Hz	93.1	-0.8 ± 1.5
					125 Hz	93.8	-0.2 ± 1.5
					250 Hz	94.0	0.0 ± 1.4
					500 Hz	94.0	0.0 ± 1.4
					1 kHz	94.0	Ref.
					2 kHz	93.9	-0.2 ± 1.6
					4 kHz	93.3	-0.8 ± 1.6
					8 kHz	91.1	-3.0 (+2.1 ; -3.1)
					12.5 kHz	88.2	-6.2 (+3.0 ; -6.0)

The test equipment used for calibration are traceable to the National Standards as specified in this report. This report shall not be reproduced except in full and with prior written approval from this laboratory.

Calibration Report

Remarks : - Mfr's Spec. : IEC 61672 Class 1

- Uncertainties of Applied Value : 94 dB : 63 Hz - 125 Hz : ± 0.35 dB
250 Hz - 500 Hz : ± 0.30 dB
1 kHz : ± 0.20 dB
2 kHz - 4 kHz : ± 0.35 dB
8 kHz : ± 0.45 dB
12.5 kHz : ± 0.70 dB
104 dB : 1 kHz : ± 0.10 dB (Ref. 94 dB)
114 dB : 1 kHz : ± 0.10 dB (Ref. 94 dB)

- The uncertainties are for a confidence probability of not less than 95 %.

Note :

The values given in this Calibration Report only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance for the equipment long term drift, variations with environment changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Sun Creation Engineering Limited shall not be liable for any loss or damage resulting from the use of the equipment.

Certificate No. : C113972

Certificate of Calibration

This is to certify that the equipment

Description : Sound Level Calibrator

Manufacturer : Rion

Model No. : NC-73

Serial No. : 10786708

has been calibrated for the specific items and ranges.

The results are shown in the Calibration Report No. C113972.

The equipment is supplied by

Co. Name : Envirotech Services Co.

*Address : Shop 6, G/F., Casio Mansion, 209 Shaukeiwan Road,
Hong Kong*

Date of Issue : 18 July 2011

Certified by :


HC Chan

Report No. : C113972

Calibration Report

ITEM TESTED

DESCRIPTION : Sound Level Calibrator
MANUFACTURER : Rion
MODEL NO. : NC-73
SERIAL NO. : 10786708

TEST CONDITIONS

AMBIENT TEMPERATURE : (23 ± 2)°C
RELATIVE HUMIDITY : (55 ± 20)%
LINE VOLTAGE : ---

TEST SPECIFICATIONS

Calibration check

DATE OF TEST : 16 July 2011

JOB NO. : IC11-1746

TEST RESULTS

The results apply to the particular unit-under-test only.
All results are within manufacturer's specification.
The results are detailed in the subsequent page(s).

The test equipment used for calibration are traceable to National Standards via :

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory
- The Bruel & Kjaer Calibration Laboratory, Denmark
- Rohde & Schwarz Laboratory, Germany
- Fluke Everett Service Center, USA
- Agilent Technologies, USA

Tested by :


KC Lee

Date : 18 July 2011

The test equipment used for calibration are traceable to the National Standards as specified in this report.
This report shall not be reproduced except in full and with prior written approval from this laboratory.

Calibration Report

1. The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 24 hours before the commencement of the test.
2. The results presented are the mean of 3 measurements at each calibration point.
3. Test equipment :

<u>Equipment ID</u>	<u>Description</u>	<u>Certificate No.</u>
TST150A	Measuring Amplifier	C101008
CL130	Universal Counter	C113350
CL281	Multifunction Acoustic Calibrator	C1006860

4. Test procedure : MA100N.

5. Results :

- 5.1 Sound Level Accuracy

UUT Nominal Value	Measured Value (dB)	Mfr's Spec. (dB)	Uncertainty of Measured Value (dB)
94 dB, 1 kHz	93.9	± 0.5	± 0.2

- 5.2 Frequency Accuracy

UUT Nominal Value (kHz)	Measured Value (kHz)	Mfr's Spec.	Uncertainty of Measured Value (Hz)
1	0.991	1 kHz ± 2 %	± 1

Remark : - The uncertainties are for a confidence probability of not less than 95 %.

Note :

The values given in this Calibration Report only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance for the equipment long term drift, variations with environment changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Sun Creation Engineering Limited shall not be liable for any loss or damage resulting from the use of the equipment.

Annex D

Noise Monitoring Results

Baseline Monitoring Result of CCC Kei To Secondary School (SSCH02)

Measured Leq (30min) from 0700-1900 hours on normal weekdays at SSCH02 Date and Time	L _{eq} 30min	Measured L _{eq} (5min) on holidays from 0700 - 1900 hours at SSCH02 Date and Time	L _{eq} 5min
13-03-2012 10:25:35	64.1	18-03-2012 7:02:00	59.6
13-03-2012 10:55:35	62.8	18-03-2012 7:07:00	59.6
13-03-2012 11:25:35	64.5	18-03-2012 7:12:00	59.5
13-03-2012 11:55:35	62.6	18-03-2012 7:17:00	59.0
13-03-2012 12:25:35	66.5	18-03-2012 7:22:00	60.4
13-03-2012 12:55:35	64.6	18-03-2012 7:27:00	59.0
13-03-2012 13:25:35	68.3	18-03-2012 7:32:00	59.9
13-03-2012 13:55:35	65.3	18-03-2012 7:37:00	61.3
13-03-2012 14:25:35	62.6	18-03-2012 7:42:00	59.9
13-03-2012 14:55:35	62.2	18-03-2012 7:47:00	61.0
13-03-2012 15:25:35	62.8	18-03-2012 7:52:00	61.4
13-03-2012 15:55:35	64.9	18-03-2012 7:57:00	60.7
13-03-2012 16:25:35	65.6	18-03-2012 8:02:00	60.9
13-03-2012 16:55:35	64.2	18-03-2012 8:07:00	61.1
13-03-2012 17:25:35	63.0	18-03-2012 8:12:00	60.5
13-03-2012 17:55:35	62.8	18-03-2012 8:17:00	63.2
13-03-2012 18:25:35	61.3	18-03-2012 8:22:00	63.4
13-03-2012 18:55:35	60.8	18-03-2012 8:27:00	62.9
14-03-2012 7:25:35	61.5	18-03-2012 8:32:00	61.9
14-03-2012 7:55:35	62.4	18-03-2012 8:37:00	60.9
14-03-2012 8:25:35	64.8	18-03-2012 8:42:00	60.7
14-03-2012 8:55:35	62.6	18-03-2012 8:47:00	61.2
14-03-2012 9:25:35	63.9	18-03-2012 8:52:00	60.6
14-03-2012 9:55:35	64.4	18-03-2012 8:57:00	61.2
14-03-2012 10:25:35	69.1	18-03-2012 9:02:00	60.9
14-03-2012 10:55:35	63.1	18-03-2012 9:07:00	61.4
14-03-2012 11:25:35	64.1	18-03-2012 9:12:00	60.6
14-03-2012 11:55:35	62.2	18-03-2012 9:17:00	60.3
14-03-2012 12:25:35	62.3	18-03-2012 9:22:00	60.9
14-03-2012 12:55:35	66.2	18-03-2012 9:27:00	61.3
14-03-2012 13:25:35	69.0	18-03-2012 9:32:00	60.1
14-03-2012 13:55:35	64.4	18-03-2012 9:37:00	59.9
14-03-2012 14:25:35	62.8	18-03-2012 9:42:00	59.7
14-03-2012 14:55:35	62.3	18-03-2012 9:47:00	61.4
14-03-2012 15:25:35	63.1	18-03-2012 9:52:00	61.1
14-03-2012 15:55:35	65.1	18-03-2012 9:57:00	60.8
14-03-2012 16:25:35	66.6	18-03-2012 10:02:00	61.0
14-03-2012 16:55:35	67.2	18-03-2012 10:07:00	60.3
14-03-2012 17:25:35	66.5	18-03-2012 10:12:00	60.2
14-03-2012 17:55:35	64.8	18-03-2012 10:17:00	61.1
14-03-2012 18:25:35	61.3	18-03-2012 10:22:00	60.8
14-03-2012 18:55:35	60.5	18-03-2012 10:27:00	60.5
15-03-2012 7:25:35	62.3	18-03-2012 10:32:00	60.7
15-03-2012 7:55:35	63.0	18-03-2012 10:37:00	60.9
15-03-2012 8:25:35	64.2	18-03-2012 10:42:00	60.8
15-03-2012 8:55:35	67.6	18-03-2012 10:47:00	61.4
15-03-2012 9:25:35	66.3	18-03-2012 10:52:00	60.5

Baseline Monitoring Result of CCC Kei To Secondary School (SSCH02)

15-03-2012 9:55:35	64.5	18-03-2012 10:57:00	61.1
15-03-2012 10:25:35	63.3	18-03-2012 11:02:00	61.0
15-03-2012 10:55:35	64.1	18-03-2012 11:07:00	61.1
15-03-2012 11:25:35	65.2	18-03-2012 11:12:00	61.5
15-03-2012 11:55:35	64.6	18-03-2012 11:17:00	61.7
15-03-2012 12:25:35	64.1	18-03-2012 11:22:00	60.4
15-03-2012 12:55:35	63.7	18-03-2012 11:27:00	61.3
15-03-2012 13:25:35	66.3	18-03-2012 11:32:00	61.0
15-03-2012 13:55:35	63.8	18-03-2012 11:37:00	61.5
15-03-2012 14:25:35	63.1	18-03-2012 11:42:00	61.2
15-03-2012 14:55:35	63.9	18-03-2012 11:47:00	61.1
15-03-2012 15:25:35	64.5	18-03-2012 11:52:00	61.2
15-03-2012 15:55:35	65.9	18-03-2012 11:57:00	61.5
15-03-2012 16:25:35	65.0	18-03-2012 12:02:00	60.7
15-03-2012 16:55:35	65.0	18-03-2012 12:07:00	60.9
15-03-2012 17:25:35	65.2	18-03-2012 12:12:00	62.5
15-03-2012 17:55:35	63.5	18-03-2012 12:17:00	61.0
15-03-2012 18:25:35	61.4	18-03-2012 12:22:00	61.4
15-03-2012 18:55:35	61.9	18-03-2012 12:27:00	61.2
16-03-2012 7:25:35	63.9	18-03-2012 12:32:00	61.4
16-03-2012 7:55:35	62.7	18-03-2012 12:37:00	62.2
16-03-2012 8:22:38	63.0	18-03-2012 12:42:00	61.9
16-03-2012 8:52:38	63.2	18-03-2012 12:47:00	61.1
16-03-2012 9:22:38	62.8	18-03-2012 12:52:00	61.3
16-03-2012 9:52:38	63.4	18-03-2012 12:57:00	62.9
16-03-2012 10:22:38	65.1	18-03-2012 13:02:00	63.1
16-03-2012 10:52:38	63.4	18-03-2012 13:07:00	62.1
16-03-2012 11:22:38	63.9	18-03-2012 13:12:00	61.1
16-03-2012 11:52:38	65.0	18-03-2012 13:17:00	61.8
16-03-2012 12:22:38	64.3	18-03-2012 13:22:00	60.8
16-03-2012 12:52:38	63.6	18-03-2012 13:27:00	60.6
16-03-2012 13:22:38	66.0	18-03-2012 13:32:00	60.9
16-03-2012 13:52:38	65.0	18-03-2012 13:37:00	62.2
16-03-2012 14:22:38	66.6	18-03-2012 13:42:00	61.4
16-03-2012 14:52:38	64.7	18-03-2012 13:47:00	61.0
16-03-2012 15:22:38	63.8	18-03-2012 13:52:00	61.5
16-03-2012 15:52:38	64.7	18-03-2012 13:57:00	61.0
16-03-2012 16:22:38	65.5	18-03-2012 14:02:00	62.2
16-03-2012 16:52:38	65.1	18-03-2012 14:07:00	60.8
16-03-2012 17:22:38	64.8	18-03-2012 14:12:00	60.8
16-03-2012 17:52:38	65.6	18-03-2012 14:17:00	61.2
16-03-2012 18:22:38	63.8	18-03-2012 14:22:00	61.4
16-03-2012 18:52:38	62.4	18-03-2012 14:27:00	61.8
17-03-2012 7:22:38	61.1	18-03-2012 14:32:00	60.9
17-03-2012 7:52:38	62.5	18-03-2012 14:37:00	60.8
17-03-2012 8:22:38	62.5	18-03-2012 14:42:00	62.8
17-03-2012 8:52:38	62.7	18-03-2012 14:47:00	61.4
17-03-2012 9:22:38	62.0	18-03-2012 14:52:00	60.8
17-03-2012 9:52:38	62.0	18-03-2012 14:57:00	60.8
17-03-2012 10:22:38	63.1	18-03-2012 15:02:00	61.0
17-03-2012 10:52:38	63.8	18-03-2012 15:07:00	60.6
17-03-2012 11:22:38	62.3	18-03-2012 15:12:00	60.6
17-03-2012 11:52:38	62.7	18-03-2012 15:17:00	60.1

Baseline Monitoring Result of CCC Kei To Secondary School (SSCH02)

17-03-2012 12:22:38	62.9	18-03-2012 15:22:00	59.9
17-03-2012 12:52:38	64.2	18-03-2012 15:27:00	60.3
17-03-2012 13:22:38	64.3	18-03-2012 15:32:00	59.9
17-03-2012 13:52:38	63.5	18-03-2012 15:37:00	61.6
17-03-2012 14:22:38	62.8	18-03-2012 15:42:00	60.4
17-03-2012 14:52:38	62.3	18-03-2012 15:47:00	60.9
17-03-2012 15:22:38	62.1	18-03-2012 15:52:00	60.3
17-03-2012 15:52:38	61.8	18-03-2012 15:57:00	60.7
17-03-2012 16:22:38	63.6	18-03-2012 16:02:00	60.1
17-03-2012 16:52:38	62.2	18-03-2012 16:07:00	60.6
17-03-2012 17:22:38	62.3	18-03-2012 16:12:00	60.3
17-03-2012 17:52:38	63.0	18-03-2012 16:17:00	59.7
17-03-2012 18:22:38	61.4	18-03-2012 16:22:00	59.2
17-03-2012 18:52:38	61.3	18-03-2012 16:27:00	60.1
19-03-2012 7:22:38	61.6	18-03-2012 16:32:00	60.4
19-03-2012 7:52:38	62.2	18-03-2012 16:37:00	60.3
19-03-2012 8:22:38	64.6	18-03-2012 16:42:00	60.1
19-03-2012 8:52:38	64.0	18-03-2012 16:47:00	60.6
19-03-2012 9:22:38	64.6	18-03-2012 16:52:00	59.2
19-03-2012 9:52:38	64.8	18-03-2012 16:57:00	61.3
19-03-2012 10:22:38	66.3	18-03-2012 17:02:00	60.0
19-03-2012 10:52:38	65.1	18-03-2012 17:07:00	59.0
19-03-2012 11:22:38	65.7	18-03-2012 17:12:00	60.0
19-03-2012 11:52:38	62.1	18-03-2012 17:17:00	59.8
19-03-2012 12:22:38	62.3	18-03-2012 17:22:00	59.7
19-03-2012 12:52:38	63.4	18-03-2012 17:27:00	59.7
19-03-2012 13:22:38	67.6	18-03-2012 17:32:00	60.5
19-03-2012 13:52:38	64.8	18-03-2012 17:37:00	59.5
19-03-2012 14:22:38	64.6	18-03-2012 17:42:00	58.9
19-03-2012 14:52:38	64.2	18-03-2012 17:47:00	60.0
19-03-2012 15:20:58	63.6	18-03-2012 17:52:00	60.0
19-03-2012 15:50:58	64.7	18-03-2012 17:57:00	60.2
19-03-2012 16:20:58	68.9	18-03-2012 18:02:00	59.6
19-03-2012 16:50:58	68.6	18-03-2012 18:07:00	59.3
19-03-2012 17:20:58	68.8	18-03-2012 18:12:00	63.5
19-03-2012 17:50:58	65.9	18-03-2012 18:17:00	59.7
19-03-2012 18:20:58	63.4	18-03-2012 18:22:00	59.7
19-03-2012 18:50:58	61.0	18-03-2012 18:27:00	59.0
20-03-2012 7:20:58	62.3	18-03-2012 18:32:00	58.8
20-03-2012 7:50:58	62.7	18-03-2012 18:37:00	60.0
20-03-2012 8:20:58	64.0	18-03-2012 18:42:00	59.4
20-03-2012 8:50:58	64.1	18-03-2012 18:47:00	59.4
20-03-2012 9:20:58	64.1	18-03-2012 18:52:00	64.6
20-03-2012 9:50:58	64.7	18-03-2012 18:57:00	62.0
20-03-2012 10:20:58	63.7	25-03-2012 7:04:00	57.5
20-03-2012 10:50:58	63.4	25-03-2012 7:09:00	56.7
20-03-2012 11:20:58	65.2	25-03-2012 7:14:00	58.0
20-03-2012 11:50:58	63.4	25-03-2012 7:19:00	56.5
20-03-2012 12:20:58	63.6	25-03-2012 7:24:00	57.4
20-03-2012 12:50:58	63.9	25-03-2012 7:29:00	57.1
20-03-2012 13:20:58	67.2	25-03-2012 7:34:00	57.9
20-03-2012 13:50:58	64.7	25-03-2012 7:39:00	59.9
20-03-2012 14:20:58	63.1	25-03-2012 7:44:00	57.9

Baseline Monitoring Result of CCC Kei To Secondary School (SSCH02)

20-03-2012 14:50:58	62.6	25-03-2012 7:49:00	57.8
20-03-2012 15:20:58	62.3	25-03-2012 7:54:00	58.8
20-03-2012 15:50:58	64.3	25-03-2012 7:59:00	60.8
20-03-2012 16:20:58	65.0	25-03-2012 8:04:00	59.1
20-03-2012 16:50:58	66.2	25-03-2012 8:09:00	59.7
20-03-2012 17:20:58	64.4	25-03-2012 8:14:00	61.8
20-03-2012 17:50:58	62.5	25-03-2012 8:19:00	60.6
20-03-2012 18:20:58	62.3	25-03-2012 8:24:00	59.0
20-03-2012 18:50:58	61.4	25-03-2012 8:29:00	58.8
21-03-2012 7:20:58	61.6	25-03-2012 8:34:00	59.3
21-03-2012 7:50:58	61.3	25-03-2012 8:39:00	59.3
21-03-2012 8:20:58	62.3	25-03-2012 8:44:00	59.2
21-03-2012 8:50:58	63.9	25-03-2012 8:49:00	60.1
21-03-2012 9:20:58	64.5	25-03-2012 8:54:00	59.0
21-03-2012 9:50:58	65.9	25-03-2012 8:59:00	60.6
21-03-2012 10:20:58	67.4	25-03-2012 9:04:00	60.9
21-03-2012 10:50:58	63.7	25-03-2012 9:09:00	65.9
21-03-2012 11:20:58	64.6	25-03-2012 9:14:00	64.4
21-03-2012 11:50:58	62.0	25-03-2012 9:19:00	58.1
21-03-2012 12:20:58	63.0	25-03-2012 9:24:00	58.1
21-03-2012 12:50:58	64.5	25-03-2012 9:29:00	69.4
21-03-2012 13:20:58	68.6	25-03-2012 9:34:00	65.0
21-03-2012 13:50:58	64.3	25-03-2012 9:39:00	59.4
21-03-2012 14:20:58	63.3	25-03-2012 9:44:00	59.1
21-03-2012 14:50:58	63.0	25-03-2012 9:49:00	58.3
21-03-2012 15:20:58	64.4	25-03-2012 9:54:00	59.3
21-03-2012 15:50:58	66.6	25-03-2012 9:59:00	59.3
21-03-2012 16:20:58	66.8	25-03-2012 10:04:00	58.6
21-03-2012 16:50:58	68.7	25-03-2012 10:09:00	60.0
21-03-2012 17:20:58	69.3	25-03-2012 10:14:00	60.1
21-03-2012 17:50:58	66.6	25-03-2012 10:19:00	61.0
21-03-2012 18:20:58	63.0	25-03-2012 10:24:00	59.0
21-03-2012 18:50:58	61.9	25-03-2012 10:29:00	59.7
22-03-2012 7:20:58	62.2	25-03-2012 10:34:00	60.5
22-03-2012 7:50:58	62.3	25-03-2012 10:39:00	69.7
22-03-2012 8:20:58	63.2	25-03-2012 10:44:00	69.5
22-03-2012 8:50:58	65.8	25-03-2012 10:49:00	69.6
22-03-2012 9:20:58	64.4	25-03-2012 10:54:00	64.2
22-03-2012 9:50:58	63.4	25-03-2012 10:59:00	64.7
22-03-2012 10:20:58	63.1	25-03-2012 11:04:00	66.1
22-03-2012 10:50:58	63.0	25-03-2012 11:09:00	61.5
22-03-2012 11:20:58	64.9	25-03-2012 11:14:00	70.0
22-03-2012 11:50:58	64.1	25-03-2012 11:19:00	69.7
22-03-2012 12:20:58	64.1	25-03-2012 11:24:00	66.1
22-03-2012 12:50:58	64.2	25-03-2012 11:29:00	65.5
22-03-2012 13:20:58	67.7	25-03-2012 11:34:00	67.5
22-03-2012 13:50:58	64.2	25-03-2012 11:39:00	69.5
22-03-2012 14:18:09	62.7	25-03-2012 11:44:00	64.5
22-03-2012 14:48:09	62.4	25-03-2012 11:49:00	65.2
22-03-2012 15:18:09	62.9	25-03-2012 11:54:00	60.3
22-03-2012 15:48:09	63.1	25-03-2012 11:59:00	65.7
22-03-2012 16:18:09	63.7	25-03-2012 12:04:00	69.8
22-03-2012 16:48:09	64.7	25-03-2012 12:09:00	72.1

Baseline Monitoring Result of CCC Kei To Secondary School (SSCH02)

22-03-2012 17:18:09	64.1	25-03-2012 12:14:00	69.6
22-03-2012 17:48:09	62.6	25-03-2012 12:19:00	62.4
22-03-2012 18:18:09	62.2	25-03-2012 12:24:00	60.6
22-03-2012 18:48:09	61.7	25-03-2012 12:29:00	60.8
23-03-2012 7:18:09	61.4	25-03-2012 12:34:00	60.5
23-03-2012 7:48:09	64.0	25-03-2012 12:39:00	61.0
23-03-2012 8:18:09	64.6	25-03-2012 12:44:00	62.6
23-03-2012 8:48:09	64.1	25-03-2012 12:49:00	61.8
23-03-2012 9:18:09	63.1	25-03-2012 12:54:00	62.2
23-03-2012 9:48:09	64.3	25-03-2012 12:59:00	60.9
23-03-2012 10:18:09	63.0	25-03-2012 13:04:00	61.2
23-03-2012 10:48:09	62.9	25-03-2012 13:09:00	62.3
23-03-2012 11:18:09	64.3	25-03-2012 13:14:00	64.2
23-03-2012 11:48:09	64.6	25-03-2012 13:19:00	65.7
23-03-2012 12:18:09	63.9	25-03-2012 13:24:00	61.8
23-03-2012 12:48:09	63.7	25-03-2012 13:29:00	60.7
23-03-2012 13:18:09	66.3	25-03-2012 13:34:00	59.8
23-03-2012 13:48:09	66.8	25-03-2012 13:39:00	60.1
23-03-2012 14:18:09	67.4	25-03-2012 13:44:00	61.2
23-03-2012 14:48:09	66.2	25-03-2012 13:49:00	66.3
23-03-2012 15:18:09	62.6	25-03-2012 13:54:00	61.1
23-03-2012 15:48:09	65.3	25-03-2012 13:59:00	61.1
23-03-2012 16:18:09	64.1	25-03-2012 14:04:00	60.8
23-03-2012 16:48:09	68.5	25-03-2012 14:09:00	62.0
23-03-2012 17:18:09	64.4	25-03-2012 14:14:00	61.8
23-03-2012 17:48:09	64.4	25-03-2012 14:19:00	63.4
23-03-2012 18:18:09	63.2	25-03-2012 14:24:00	61.9
23-03-2012 18:48:09	63.3	25-03-2012 14:29:00	61.0
24-03-2012 7:18:09	59.8	25-03-2012 14:34:00	64.0
24-03-2012 7:48:09	60.3	25-03-2012 14:39:00	61.6
24-03-2012 8:18:09	62.3	25-03-2012 14:44:00	65.9
24-03-2012 8:48:09	62.1	25-03-2012 14:49:00	67.0
24-03-2012 9:14:05	61.9	25-03-2012 14:54:00	65.9
24-03-2012 9:44:05	61.5	25-03-2012 14:59:00	67.6
24-03-2012 10:14:05	62.5	25-03-2012 15:04:00	67.1
24-03-2012 10:44:05	62.0	25-03-2012 15:09:00	63.3
24-03-2012 11:14:05	63.2	25-03-2012 15:14:00	63.2
24-03-2012 11:44:05	62.6	25-03-2012 15:19:00	66.0
24-03-2012 12:14:05	61.8	25-03-2012 15:24:00	66.6
24-03-2012 12:44:05	66.1	25-03-2012 15:29:00	65.4
24-03-2012 13:14:05	63.5	25-03-2012 15:34:00	64.2
24-03-2012 13:44:05	63.0	25-03-2012 15:39:00	64.7
24-03-2012 14:14:05	63.4	25-03-2012 15:44:00	65.5
24-03-2012 14:44:05	61.6	25-03-2012 15:49:00	64.7
24-03-2012 15:14:05	61.0	25-03-2012 15:54:00	61.5
24-03-2012 15:44:05	61.2	25-03-2012 15:59:00	64.5
24-03-2012 16:14:05	61.1	25-03-2012 16:04:00	65.6
24-03-2012 16:44:05	60.7	25-03-2012 16:09:00	64.7
24-03-2012 17:14:05	61.5	25-03-2012 16:14:00	63.5
24-03-2012 17:44:05	62.1	25-03-2012 16:19:00	64.6
24-03-2012 18:14:05	60.6	25-03-2012 16:24:00	62.5
24-03-2012 18:44:05	60.1	25-03-2012 16:29:00	60.2
26-03-2012 7:14:05	61.0	25-03-2012 16:34:00	60.7

Baseline Monitoring Result of CCC Kei To Secondary School (SSCH02)

26-03-2012 7:44:05	61.8	25-03-2012 16:39:00	59.6
26-03-2012 8:14:05	62.0	25-03-2012 16:44:00	59.0
26-03-2012 8:44:05	63.3	25-03-2012 16:49:00	58.0
26-03-2012 9:14:05	64.6	25-03-2012 16:54:00	61.5
26-03-2012 9:44:05	66.0	25-03-2012 16:59:00	65.3
26-03-2012 10:14:05	62.5	25-03-2012 17:04:00	68.6
26-03-2012 10:44:05	64.2	25-03-2012 17:09:00	77.0
26-03-2012 11:14:05	64.0	25-03-2012 17:14:00	77.1
26-03-2012 11:44:05	63.3	25-03-2012 17:19:00	75.6
26-03-2012 12:14:05	63.5	25-03-2012 17:24:00	76.1
26-03-2012 12:44:05	62.2	25-03-2012 17:29:00	77.3
26-03-2012 13:14:05	65.7	25-03-2012 17:34:00	71.8
26-03-2012 13:44:05	64.7	25-03-2012 17:39:00	67.5
26-03-2012 14:14:05	62.8	25-03-2012 17:44:00	68.8
26-03-2012 14:44:05	62.7	25-03-2012 17:49:00	74.0
26-03-2012 15:14:05	61.6	25-03-2012 17:54:00	78.5
26-03-2012 15:44:05	65.3	25-03-2012 17:59:00	71.1
26-03-2012 16:14:05	66.3	25-03-2012 18:04:00	77.6
26-03-2012 16:44:05	65.6	25-03-2012 18:09:00	76.6
26-03-2012 17:14:05	62.5	25-03-2012 18:14:00	67.7
26-03-2012 17:44:05	61.8	25-03-2012 18:19:00	66.8
26-03-2012 18:14:05	61.3	25-03-2012 18:24:00	66.6
26-03-2012 18:44:05	60.9	25-03-2012 18:29:00	70.4
27-03-2012 7:14:05	61.0	25-03-2012 18:34:00	62.1
27-03-2012 7:44:05	62.2	25-03-2012 18:39:00	60.4
27-03-2012 8:14:05	62.7	25-03-2012 18:44:00	60.6
27-03-2012 8:44:05	63.9	25-03-2012 18:49:00	60.5
27-03-2012 9:14:05	62.7	25-03-2012 18:54:00	60.4
27-03-2012 9:44:05	63.5	25-03-2012 18:59:00	59.1
27-03-2012 10:14:05	62.3	Average	65.4
27-03-2012 10:44:05	63.4	Min	56.5
27-03-2012 11:14:05	64.2	Max	78.5
27-03-2012 11:44:05	64.7		
27-03-2012 12:14:05	62.2		
27-03-2012 12:44:05	63.1		
27-03-2012 13:14:05	65.0		
27-03-2012 13:44:05	64.9		
27-03-2012 14:14:05	63.3		
Average	64.2		
Min	59.8		
Max	69.3		

Baseline Monitoring Result of North Point Fire Services Married Quarters (FSQ)

Measured Leq (30min) from 0700-1900 hours on normal weekdays at FSQ Date and Time	L _{eq 30min}	Measured L _{eq (5min)} on holidays from 0700 - 1900 hours at FSQ Date and Time	L _{eq 5min}
13-03-2012 9:25:35	74.2	18-03-2012 7:01:40	69.5
13-03-2012 9:55:35	73.8	18-03-2012 7:06:40	68.6
13-03-2012 10:25:35	73.6	18-03-2012 7:11:40	68.6
13-03-2012 10:55:35	73.7	18-03-2012 7:16:40	68.2
13-03-2012 11:25:35	73.7	18-03-2012 7:21:40	75.1
13-03-2012 11:55:35	73.5	18-03-2012 7:26:40	68.5
13-03-2012 12:25:35	73.5	18-03-2012 7:31:40	68.4
13-03-2012 12:55:35	73.2	18-03-2012 7:36:40	69.9
13-03-2012 13:25:35	73.4	18-03-2012 7:41:40	69.7
13-03-2012 13:55:35	73.4	18-03-2012 7:46:40	69.8
13-03-2012 14:25:35	73.6	18-03-2012 7:51:40	69.3
13-03-2012 14:55:35	73.6	18-03-2012 7:56:40	70.2
13-03-2012 15:25:35	73.6	18-03-2012 8:01:40	70.6
13-03-2012 15:55:35	73.5	18-03-2012 8:06:40	69.6
13-03-2012 16:25:35	73.2	18-03-2012 8:11:40	70.2
13-03-2012 16:55:35	73.2	18-03-2012 8:16:40	69.8
13-03-2012 17:25:35	73.0	18-03-2012 8:21:40	70.1
13-03-2012 17:55:35	73.2	18-03-2012 8:26:40	73.1
13-03-2012 18:25:35	72.7	18-03-2012 8:31:40	70.5
13-03-2012 18:55:35	73.0	18-03-2012 8:36:40	70.2
14-03-2012 7:25:35	73.5	18-03-2012 8:41:40	70.9
14-03-2012 7:55:35	73.7	18-03-2012 8:46:40	71.9
14-03-2012 8:25:35	73.6	18-03-2012 8:51:40	71.3
14-03-2012 8:55:35	73.7	18-03-2012 8:56:40	71.3
14-03-2012 9:25:35	73.8	18-03-2012 9:01:40	70.5
14-03-2012 9:55:35	73.8	18-03-2012 9:06:40	71.3
14-03-2012 10:25:35	73.5	18-03-2012 9:11:40	70.7
14-03-2012 10:55:35	73.5	18-03-2012 9:16:40	71.3
14-03-2012 11:25:35	73.0	18-03-2012 9:21:40	72.8
14-03-2012 11:55:35	73.1	18-03-2012 9:26:40	71.5
14-03-2012 12:25:35	72.8	18-03-2012 9:31:40	71.2
14-03-2012 12:55:35	72.8	18-03-2012 9:36:40	71.9
14-03-2012 13:25:35	73.1	18-03-2012 9:41:40	71.1
14-03-2012 13:55:35	73.2	18-03-2012 9:46:40	71.9
14-03-2012 14:25:35	73.1	18-03-2012 9:51:40	71.9
14-03-2012 14:55:35	73.4	18-03-2012 9:56:40	72.2
14-03-2012 15:25:35	73.9	18-03-2012 10:01:40	71.3
14-03-2012 15:55:35	73.3	18-03-2012 10:06:40	71

Baseline Monitoring Result of North Point Fire Services Married Quarters (FSQ)

14-03-2012 16:25:35	73.2	18-03-2012 10:11:40	71.5
14-03-2012 16:55:35	72.9	18-03-2012 10:16:40	71.1
14-03-2012 17:25:35	72.9	18-03-2012 10:21:40	71.4
14-03-2012 17:55:35	72.8	18-03-2012 10:26:40	71.2
14-03-2012 18:25:35	72.6	18-03-2012 10:31:40	71.6
14-03-2012 18:55:35	72.4	18-03-2012 10:36:40	71.6
15-03-2012 7:25:35	73.8	18-03-2012 10:41:40	71.7
15-03-2012 7:55:35	74.1	18-03-2012 10:46:40	72.1
15-03-2012 8:25:35	74.2	18-03-2012 10:51:40	71.6
15-03-2012 8:55:35	74.3	18-03-2012 10:56:40	71.1
15-03-2012 9:25:35	74.2	18-03-2012 11:01:40	71.2
15-03-2012 9:55:35	73.9	18-03-2012 11:06:40	71.6
15-03-2012 10:25:35	73.8	18-03-2012 11:11:40	71.3
15-03-2012 10:55:35	73.5	18-03-2012 11:16:40	71.5
15-03-2012 11:25:35	73.3	18-03-2012 11:21:40	71.3
15-03-2012 11:55:35	73.6	18-03-2012 11:26:40	71.4
15-03-2012 12:25:35	73.4	18-03-2012 11:31:40	71.5
15-03-2012 12:55:35	73.1	18-03-2012 11:36:40	71.3
15-03-2012 13:25:35	73.4	18-03-2012 11:41:40	72.2
15-03-2012 13:55:35	73.2	18-03-2012 11:46:40	71.6
15-03-2012 14:25:35	73.1	18-03-2012 11:51:40	71.6
15-03-2012 14:55:35	73.3	18-03-2012 11:56:40	71.3
15-03-2012 15:25:35	73.5	18-03-2012 12:01:40	71.6
15-03-2012 15:55:35	73.4	18-03-2012 12:06:40	71.3
15-03-2012 16:25:35	73.0	18-03-2012 12:11:40	71.8
15-03-2012 16:55:35	73.0	18-03-2012 12:16:40	71.6
15-03-2012 17:25:35	73.1	18-03-2012 12:21:40	71.4
15-03-2012 17:55:35	72.9	18-03-2012 12:26:40	71.9
15-03-2012 18:25:35	72.5	18-03-2012 12:31:40	71.5
15-03-2012 18:55:35	72.1	18-03-2012 12:36:40	72
16-03-2012 7:25:35	73.1	18-03-2012 12:41:40	71.7
16-03-2012 7:55:35	73.4	18-03-2012 12:46:40	71.6
16-03-2012 8:25:35	73.7	18-03-2012 12:51:40	71.1
16-03-2012 8:55:35	73.7	18-03-2012 12:56:40	71.2
16-03-2012 9:25:35	73.8	18-03-2012 13:01:40	71.8
16-03-2012 9:55:35	73.6	18-03-2012 13:06:40	71.3
16-03-2012 10:25:35	73.5	18-03-2012 13:11:40	71.1
16-03-2012 10:55:35	73.4	18-03-2012 13:16:40	71.2
16-03-2012 11:25:35	73.5	18-03-2012 13:21:40	71.1
16-03-2012 11:55:35	73.3	18-03-2012 13:26:40	71.1
16-03-2012 12:25:35	73.2	18-03-2012 13:31:40	71.4
16-03-2012 12:55:35	73.1	18-03-2012 13:36:40	71.3
16-03-2012 13:25:35	73.2	18-03-2012 13:41:40	71.5
16-03-2012 13:55:35	73.4	18-03-2012 13:46:40	71.6

Baseline Monitoring Result of North Point Fire Services Married Quarters (FSQ)

16-03-2012 14:25:35	73.5	18-03-2012 13:51:40	71.6
16-03-2012 14:55:35	73.1	18-03-2012 13:56:40	71.4
16-03-2012 15:21:40	73.2	18-03-2012 14:01:40	71.3
16-03-2012 15:51:40	73.0	18-03-2012 14:06:40	71.2
16-03-2012 16:21:40	73.2	18-03-2012 14:11:40	71.5
16-03-2012 16:51:40	73.0	18-03-2012 14:16:40	72
16-03-2012 17:21:40	73.0	18-03-2012 14:21:40	71.5
16-03-2012 17:51:40	72.9	18-03-2012 14:26:40	72
16-03-2012 18:21:40	72.5	18-03-2012 14:31:40	71.8
16-03-2012 18:51:40	72.3	18-03-2012 14:36:40	71.5
17-03-2012 7:21:40	72.0	18-03-2012 14:41:40	71.1
17-03-2012 7:51:40	72.5	18-03-2012 14:46:40	71.7
17-03-2012 8:21:40	73.1	18-03-2012 14:51:40	71.3
17-03-2012 8:51:40	73.3	18-03-2012 14:56:40	71.2
17-03-2012 9:21:40	73.3	18-03-2012 15:01:40	70.6
17-03-2012 9:51:40	73.1	18-03-2012 15:06:40	71.1
17-03-2012 10:21:40	73.2	18-03-2012 15:11:40	71.4
17-03-2012 10:51:40	73.2	18-03-2012 15:16:40	71.2
17-03-2012 11:21:40	73.1	18-03-2012 15:21:40	71.4
17-03-2012 11:51:40	73.0	18-03-2012 15:26:40	71.2
17-03-2012 12:21:40	73.4	18-03-2012 15:31:40	71.5
17-03-2012 12:51:40	72.9	18-03-2012 15:36:40	71.2
17-03-2012 13:21:40	72.8	18-03-2012 15:41:40	70.9
17-03-2012 13:51:40	72.8	18-03-2012 15:46:40	71.6
17-03-2012 14:21:40	72.7	18-03-2012 15:51:40	71.1
17-03-2012 14:51:40	72.7	18-03-2012 15:56:40	71.2
17-03-2012 15:21:40	72.7	18-03-2012 16:01:40	71.4
17-03-2012 15:51:40	72.5	18-03-2012 16:06:40	70.8
17-03-2012 16:21:40	72.5	18-03-2012 16:11:40	71
17-03-2012 16:51:40	72.4	18-03-2012 16:16:40	71.6
17-03-2012 17:21:40	72.5	18-03-2012 16:21:40	71.4
17-03-2012 17:51:40	72.3	18-03-2012 16:26:40	71.1
17-03-2012 18:21:40	72.1	18-03-2012 16:31:40	71.2
17-03-2012 18:51:40	71.8	18-03-2012 16:36:40	71.5
19-03-2012 7:21:40	72.7	18-03-2012 16:41:40	71.5
19-03-2012 7:51:40	73.1	18-03-2012 16:46:40	72.1
19-03-2012 8:21:40	72.9	18-03-2012 16:51:40	71
19-03-2012 8:51:40	73.1	18-03-2012 16:56:40	71.5
19-03-2012 9:21:40	73.1	18-03-2012 17:01:40	71.5
19-03-2012 9:51:40	73.3	18-03-2012 17:06:40	71.4
19-03-2012 10:21:40	73.0	18-03-2012 17:11:40	71.3
19-03-2012 10:51:40	73.2	18-03-2012 17:16:40	71.1
19-03-2012 11:21:40	72.9	18-03-2012 17:21:40	71.5
19-03-2012 11:51:40	72.8	18-03-2012 17:26:40	71.1

Baseline Monitoring Result of North Point Fire Services Married Quarters (FSQ)

19-03-2012 12:21:40	72.6	18-03-2012 17:31:40	71.1
19-03-2012 12:51:40	72.7	18-03-2012 17:36:40	71.2
19-03-2012 13:21:40	72.5	18-03-2012 17:41:40	71.6
19-03-2012 13:51:40	73.0	18-03-2012 17:46:40	71.6
19-03-2012 14:21:40	72.7	18-03-2012 17:51:40	71.1
19-03-2012 14:48:18	72.8	18-03-2012 17:56:40	71.2
19-03-2012 15:18:18	72.6	18-03-2012 18:01:40	71.3
19-03-2012 15:48:18	72.7	18-03-2012 18:06:40	71.7
19-03-2012 16:18:18	72.5	18-03-2012 18:11:40	71.4
19-03-2012 16:48:18	72.7	18-03-2012 18:16:40	71.2
19-03-2012 17:18:18	72.1	18-03-2012 18:21:40	71.2
19-03-2012 17:48:18	72.4	18-03-2012 18:26:40	71.6
19-03-2012 18:18:18	72.2	18-03-2012 18:31:40	70.9
19-03-2012 18:48:18	71.8	18-03-2012 18:36:40	71.1
20-03-2012 7:18:18	72.8	18-03-2012 18:41:40	71
20-03-2012 7:48:18	73.2	18-03-2012 18:46:40	71.4
20-03-2012 8:18:18	73.1	18-03-2012 18:51:40	71
20-03-2012 8:48:18	73.2	18-03-2012 18:56:40	70.7
20-03-2012 9:18:18	73.0	25-03-2012 7:01:13	68.2
20-03-2012 9:48:18	72.9	25-03-2012 7:06:13	68.4
20-03-2012 10:18:18	72.8	25-03-2012 7:11:13	67.8
20-03-2012 10:48:18	73.0	25-03-2012 7:16:13	67.8
20-03-2012 11:18:18	72.5	25-03-2012 7:21:13	73.9
20-03-2012 11:48:18	72.5	25-03-2012 7:26:13	69.5
20-03-2012 12:18:18	72.6	25-03-2012 7:31:13	69.7
20-03-2012 12:48:18	72.4	25-03-2012 7:36:13	69.7
20-03-2012 13:18:18	73.1	25-03-2012 7:41:13	69.2
20-03-2012 13:48:18	73.7	25-03-2012 7:46:13	68.8
20-03-2012 14:18:18	73.4	25-03-2012 7:51:13	69.3
20-03-2012 14:48:18	72.5	25-03-2012 7:56:13	68.8
20-03-2012 15:18:18	72.5	25-03-2012 8:01:13	69.6
20-03-2012 15:48:18	72.4	25-03-2012 8:06:13	69.5
20-03-2012 16:18:18	72.6	25-03-2012 8:11:13	70.1
20-03-2012 16:48:18	72.5	25-03-2012 8:16:13	69.7
20-03-2012 17:18:18	72.2	25-03-2012 8:21:13	70
20-03-2012 17:48:18	72.2	25-03-2012 8:26:13	70.2
20-03-2012 18:18:18	72.5	25-03-2012 8:31:13	69.8
20-03-2012 18:48:18	71.6	25-03-2012 8:36:13	70.3
21-03-2012 7:18:18	72.6	25-03-2012 8:41:13	70.4
21-03-2012 7:48:18	71.5	25-03-2012 8:46:13	70.4
21-03-2012 8:18:18	72.7	25-03-2012 8:51:13	70.1
21-03-2012 8:48:18	72.8	25-03-2012 8:56:13	70.3
21-03-2012 9:18:18	73.0	25-03-2012 9:01:13	70.2
21-03-2012 9:48:18	73.1	25-03-2012 9:06:13	70.6

Baseline Monitoring Result of North Point Fire Services Married Quarters (FSQ)

21-03-2012 10:18:18	72.6	25-03-2012 9:11:13	71
21-03-2012 10:48:18	72.9	25-03-2012 9:16:13	71.2
21-03-2012 11:18:18	72.7	25-03-2012 9:21:13	70.6
21-03-2012 11:48:18	72.4	25-03-2012 9:26:13	70.2
21-03-2012 12:18:18	72.3	25-03-2012 9:31:13	70.7
21-03-2012 12:48:18	72.4	25-03-2012 9:36:13	70.7
21-03-2012 13:18:18	72.3	25-03-2012 9:41:13	70.5
21-03-2012 13:48:18	72.4	25-03-2012 9:46:13	70.8
21-03-2012 14:18:18	72.7	25-03-2012 9:51:13	70.5
21-03-2012 14:48:18	72.5	25-03-2012 9:56:13	70.8
21-03-2012 15:18:18	72.4	25-03-2012 10:01:13	70.4
21-03-2012 15:48:18	72.5	25-03-2012 10:06:13	70.7
21-03-2012 16:18:18	72.6	25-03-2012 10:11:13	70.6
21-03-2012 16:48:18	72.4	25-03-2012 10:16:13	71.9
21-03-2012 17:18:18	72.3	25-03-2012 10:21:13	71.7
21-03-2012 17:48:18	72.2	25-03-2012 10:26:13	70.7
21-03-2012 18:18:18	71.4	25-03-2012 10:31:13	70.6
21-03-2012 18:48:18	71.3	25-03-2012 10:36:13	71
22-03-2012 7:18:18	72.4	25-03-2012 10:41:13	71.9
22-03-2012 7:48:18	72.9	25-03-2012 10:46:13	70.9
22-03-2012 8:18:18	72.8	25-03-2012 10:51:13	70.7
22-03-2012 8:48:18	73.0	25-03-2012 10:56:13	71
22-03-2012 9:18:18	73.1	25-03-2012 11:01:13	70.7
22-03-2012 9:48:18	72.7	25-03-2012 11:06:13	70.3
22-03-2012 10:18:18	72.7	25-03-2012 11:11:13	70.9
22-03-2012 10:48:18	72.5	25-03-2012 11:16:13	70.1
22-03-2012 11:18:18	72.2	25-03-2012 11:21:13	70.3
22-03-2012 11:48:18	72.1	25-03-2012 11:26:13	70.7
22-03-2012 12:18:18	72.2	25-03-2012 11:31:13	70.7
22-03-2012 12:48:18	72.1	25-03-2012 11:36:13	70.9
22-03-2012 13:18:18	72.1	25-03-2012 11:41:13	71.1
22-03-2012 13:48:18	72.3	25-03-2012 11:46:13	71.4
22-03-2012 14:18:18	72.4	25-03-2012 11:51:13	71.1
22-03-2012 14:48:18	72.4	25-03-2012 11:56:13	70.8
22-03-2012 15:14:49	72.6	25-03-2012 12:01:13	70.6
22-03-2012 15:44:49	72.5	25-03-2012 12:06:13	70.4
22-03-2012 16:14:49	72.3	25-03-2012 12:11:13	70.6
22-03-2012 16:44:49	72.2	25-03-2012 12:16:13	70.8
22-03-2012 17:14:49	72.1	25-03-2012 12:21:13	71
22-03-2012 17:44:49	71.7	25-03-2012 12:26:13	71.6
22-03-2012 18:14:49	71.3	25-03-2012 12:31:13	70.4
22-03-2012 18:44:49	68.7	25-03-2012 12:36:13	70.4
23-03-2012 7:14:49	72.3	25-03-2012 12:41:13	70.8
23-03-2012 7:44:49	72.9	25-03-2012 12:46:13	70.4

Baseline Monitoring Result of North Point Fire Services Married Quarters (FSQ)

23-03-2012 8:14:49	72.9	25-03-2012 12:51:13	71.1
23-03-2012 8:44:49	73.1	25-03-2012 12:56:13	70.6
23-03-2012 9:14:49	72.9	25-03-2012 13:01:13	70.6
23-03-2012 9:44:49	72.7	25-03-2012 13:06:13	70.7
23-03-2012 10:14:49	72.6	25-03-2012 13:11:13	70.7
23-03-2012 10:44:49	72.3	25-03-2012 13:16:13	70.6
23-03-2012 11:14:49	72.4	25-03-2012 13:21:13	70.6
23-03-2012 11:44:49	72.0	25-03-2012 13:26:13	71.4
23-03-2012 12:14:49	71.6	25-03-2012 13:31:13	70.4
23-03-2012 12:44:49	71.5	25-03-2012 13:36:13	70.9
23-03-2012 13:14:49	72.1	25-03-2012 13:41:13	70.5
23-03-2012 13:44:49	72.2	25-03-2012 13:46:13	71
23-03-2012 14:14:49	72.4	25-03-2012 13:51:13	70.4
23-03-2012 14:44:49	72.1	25-03-2012 13:56:13	70.7
23-03-2012 15:14:49	72.3	25-03-2012 14:01:13	70.3
23-03-2012 15:44:49	72.2	25-03-2012 14:06:13	70.5
23-03-2012 16:14:49	72.3	25-03-2012 14:11:13	70.3
23-03-2012 16:44:49	72.2	25-03-2012 14:16:13	70.3
23-03-2012 17:14:49	72.3	25-03-2012 14:21:13	70.2
23-03-2012 17:44:49	72.2	25-03-2012 14:26:13	70.1
23-03-2012 18:14:49	72.0	25-03-2012 14:31:13	70.9
23-03-2012 18:44:49	71.7	25-03-2012 14:36:13	70.2
24-03-2012 7:14:49	70.9	25-03-2012 14:41:13	70.4
24-03-2012 7:44:49	71.7	25-03-2012 14:46:13	70.9
24-03-2012 8:14:49	72.3	25-03-2012 14:51:13	70.2
24-03-2012 8:44:49	72.7	25-03-2012 14:56:13	69.6
24-03-2012 9:14:49	72.0	25-03-2012 15:01:13	70.1
24-03-2012 9:44:49	71.1	25-03-2012 15:06:13	70.6
24-03-2012 10:11:13	72.3	25-03-2012 15:11:13	70.2
24-03-2012 10:41:13	72.6	25-03-2012 15:16:13	70.6
24-03-2012 11:11:13	72.5	25-03-2012 15:21:13	70.3
24-03-2012 11:41:13	72.5	25-03-2012 15:26:13	70
24-03-2012 12:11:13	72.3	25-03-2012 15:31:13	70.6
24-03-2012 12:41:13	72.4	25-03-2012 15:36:13	70.1
24-03-2012 13:11:13	72.2	25-03-2012 15:41:13	70.8
24-03-2012 13:41:13	72.0	25-03-2012 15:46:13	70.3
24-03-2012 14:11:13	72.3	25-03-2012 15:51:13	69.9
24-03-2012 14:41:13	72.1	25-03-2012 15:56:13	70.2
24-03-2012 15:11:13	72.2	25-03-2012 16:01:13	70.2
24-03-2012 15:41:13	72.4	25-03-2012 16:06:13	69.9
24-03-2012 16:11:13	72.0	25-03-2012 16:11:13	70.3
24-03-2012 16:41:13	72.0	25-03-2012 16:16:13	70.5
24-03-2012 17:11:13	71.7	25-03-2012 16:21:13	70.4
24-03-2012 17:41:13	71.6	25-03-2012 16:26:13	69.6

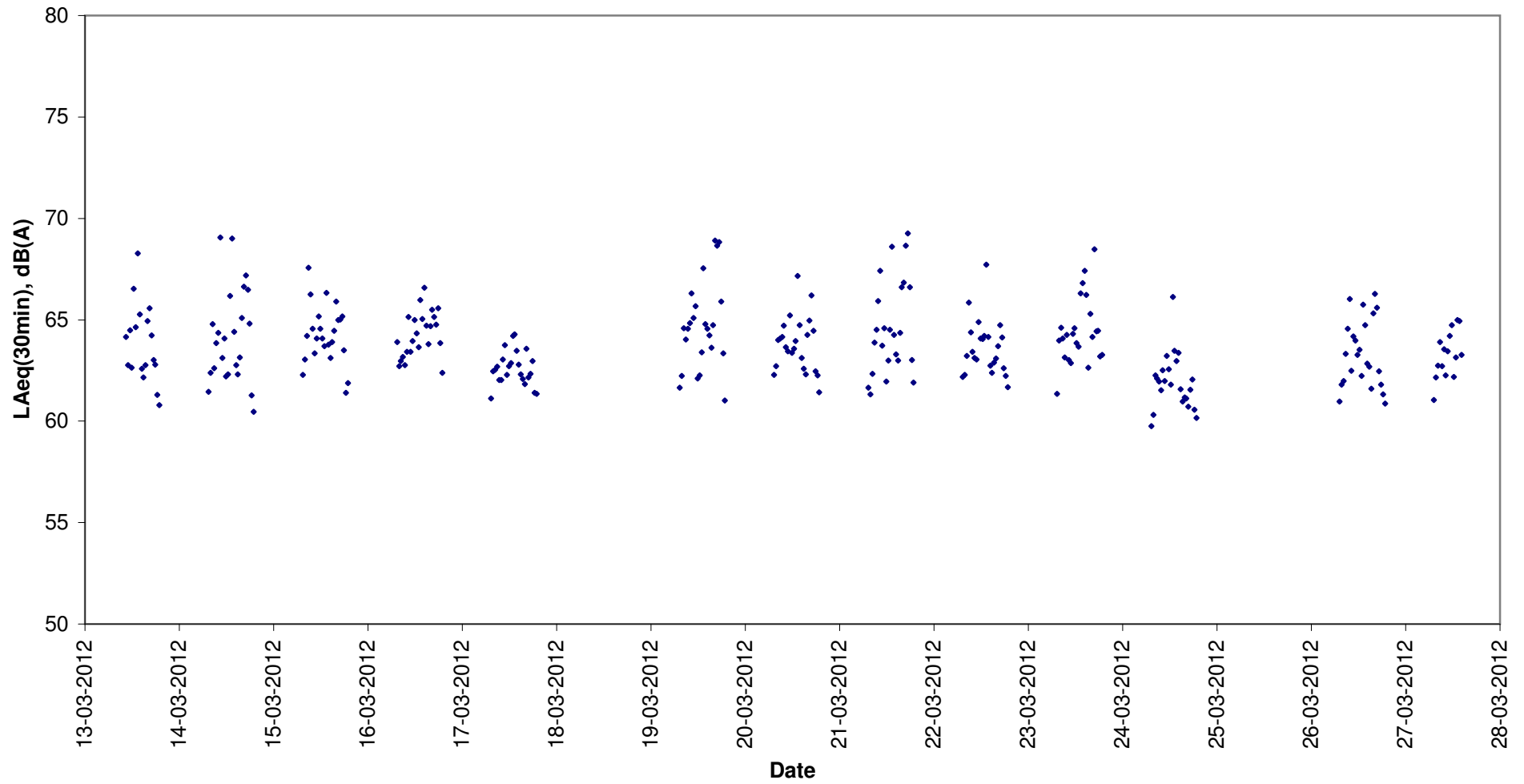
Baseline Monitoring Result of North Point Fire Services Married Quarters (FSQ)

24-03-2012 18:11:13	71.3	25-03-2012 16:31:13	70.8
24-03-2012 18:41:13	71.1	25-03-2012 16:36:13	70.8
26-03-2012 7:11:13	72.2	25-03-2012 16:41:13	70.5
26-03-2012 7:41:13	72.6	25-03-2012 16:46:13	70.7
26-03-2012 8:11:13	72.4	25-03-2012 16:51:13	70.4
26-03-2012 8:41:13	72.4	25-03-2012 16:56:13	71.1
26-03-2012 9:11:13	72.5	25-03-2012 17:01:13	70.5
26-03-2012 9:41:13	72.5	25-03-2012 17:06:13	70.8
26-03-2012 10:11:13	72.3	25-03-2012 17:11:13	70
26-03-2012 10:41:13	71.9	25-03-2012 17:16:13	70.7
26-03-2012 11:11:13	71.3	25-03-2012 17:21:13	70.8
26-03-2012 11:41:13	71.2	25-03-2012 17:26:13	69.7
26-03-2012 12:11:13	71.3	25-03-2012 17:31:13	70.6
26-03-2012 12:41:13	71.6	25-03-2012 17:36:13	70.4
26-03-2012 13:11:13	71.7	25-03-2012 17:41:13	70.7
26-03-2012 13:41:13	72.1	25-03-2012 17:46:13	70.7
26-03-2012 14:11:13	72.0	25-03-2012 17:51:13	70.9
26-03-2012 14:41:13	71.9	25-03-2012 17:56:13	70.8
26-03-2012 15:11:13	73.2	25-03-2012 18:01:13	70.7
26-03-2012 15:41:13	72.8	25-03-2012 18:06:13	70.5
27-03-2012 9:55:00	73.2	25-03-2012 18:11:13	70.6
27-03-2012 10:25:00	72.8	25-03-2012 18:16:13	70.7
27-03-2012 10:55:00	72.8	25-03-2012 18:21:13	70.9
27-03-2012 11:25:00	72.8	25-03-2012 18:26:13	70.5
27-03-2012 11:55:00	72.8	25-03-2012 18:31:13	70.8
27-03-2012 12:25:00	72.3	25-03-2012 18:36:13	70.8
27-03-2012 12:55:00	72.3	25-03-2012 18:41:13	70.3
27-03-2012 13:25:00	72.5	25-03-2012 18:46:13	70.9
27-03-2012 13:55:00	72.7	25-03-2012 18:51:13	70.8
27-03-2012 14:25:00	72.6	25-03-2012 18:56:13	70.1
27-03-2012 14:55:00	72.6	Average	70.9
27-03-2012 15:25:00	72.8	Min	67.8
27-03-2012 15:55:00	72.4	Max	75.1
27-03-2012 16:25:00	72.6		
27-03-2012 16:55:00	72.3		
27-03-2012 17:25:00	72.5		
27-03-2012 17:55:00	72.2		
27-03-2012 18:25:00	71.7		
27-03-2012 18:55:00	71.5		
28-03-2012 7:25:00	72.1		
28-03-2012 7:55:00	72.5		
28-03-2012 8:25:00	73.0		
28-03-2012 8:55:00	73.0		
28-03-2012 9:25:00	73.1		

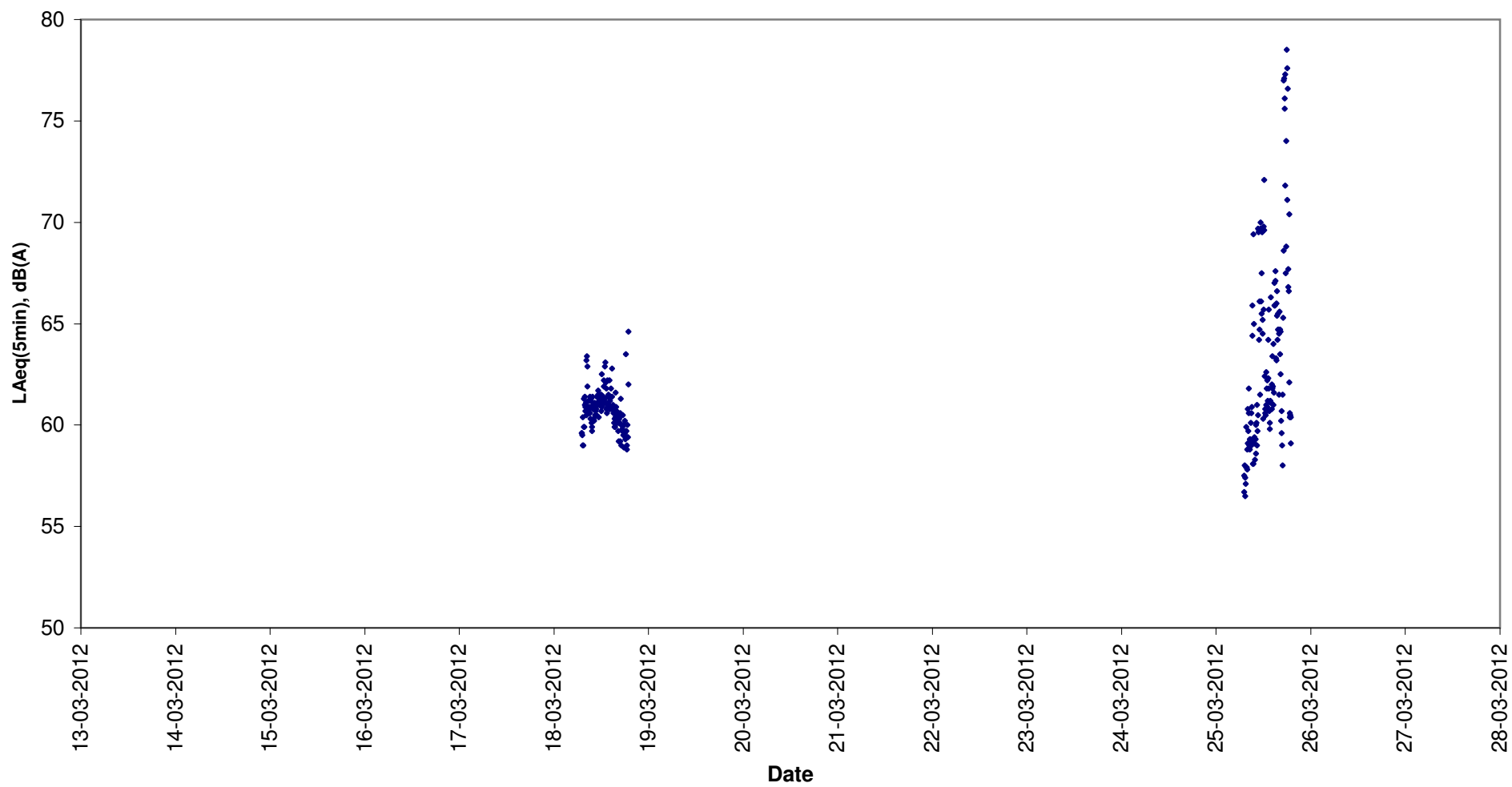
Baseline Monitoring Result of North Point Fire Services Married Quarters (FSQ)

28-03-2012 9:55:00	72.4		
28-03-2012 10:25:00	72.7		
28-03-2012 10:55:00	73.1		
28-03-2012 11:25:00	73.0		
Average	72.7		
Min	68.7		
Max	74.3		

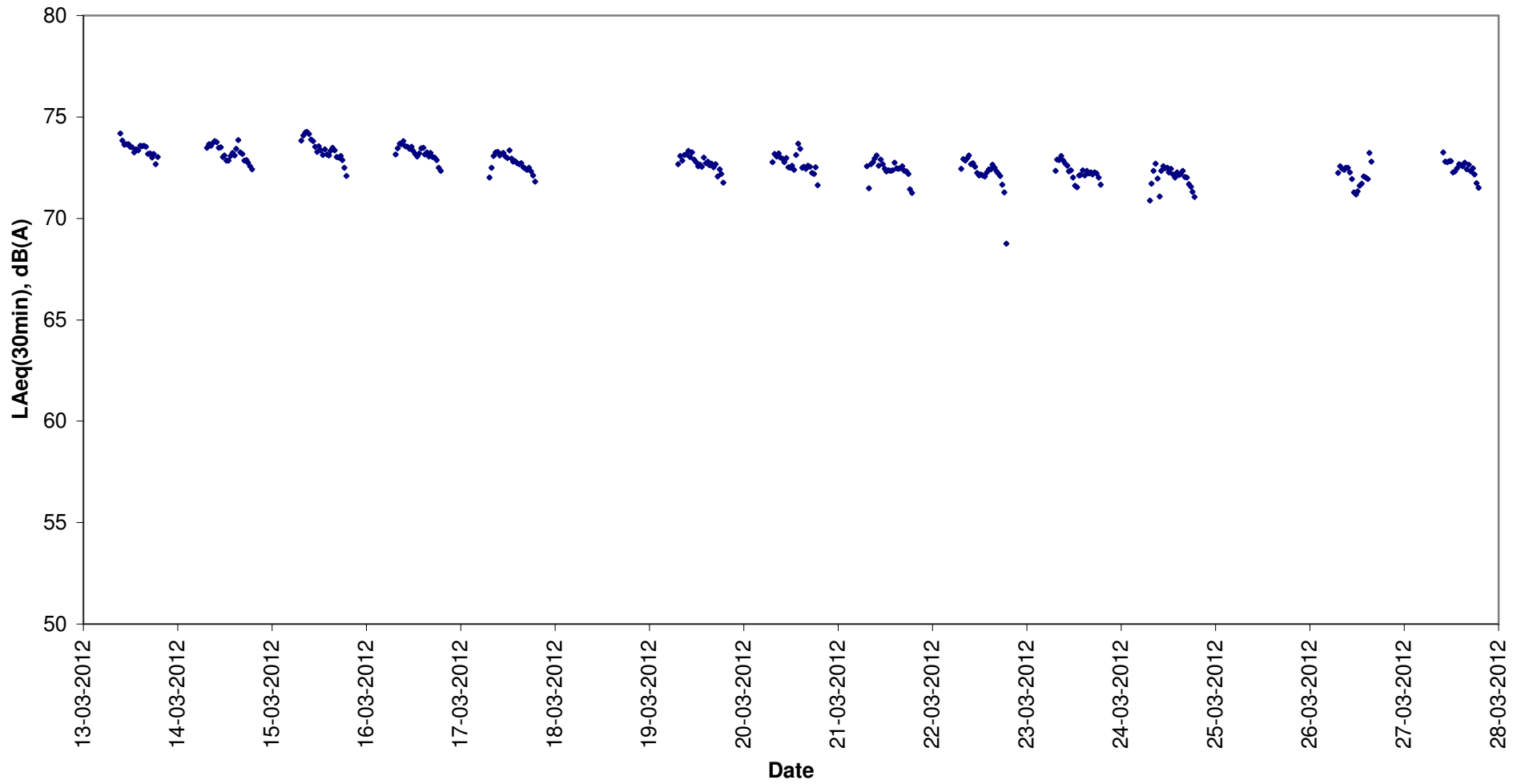
LAeq(30min) during Normal Weekdays Working Hours (0700 - 1900) at SCH02 CCC Kei To Secondary School



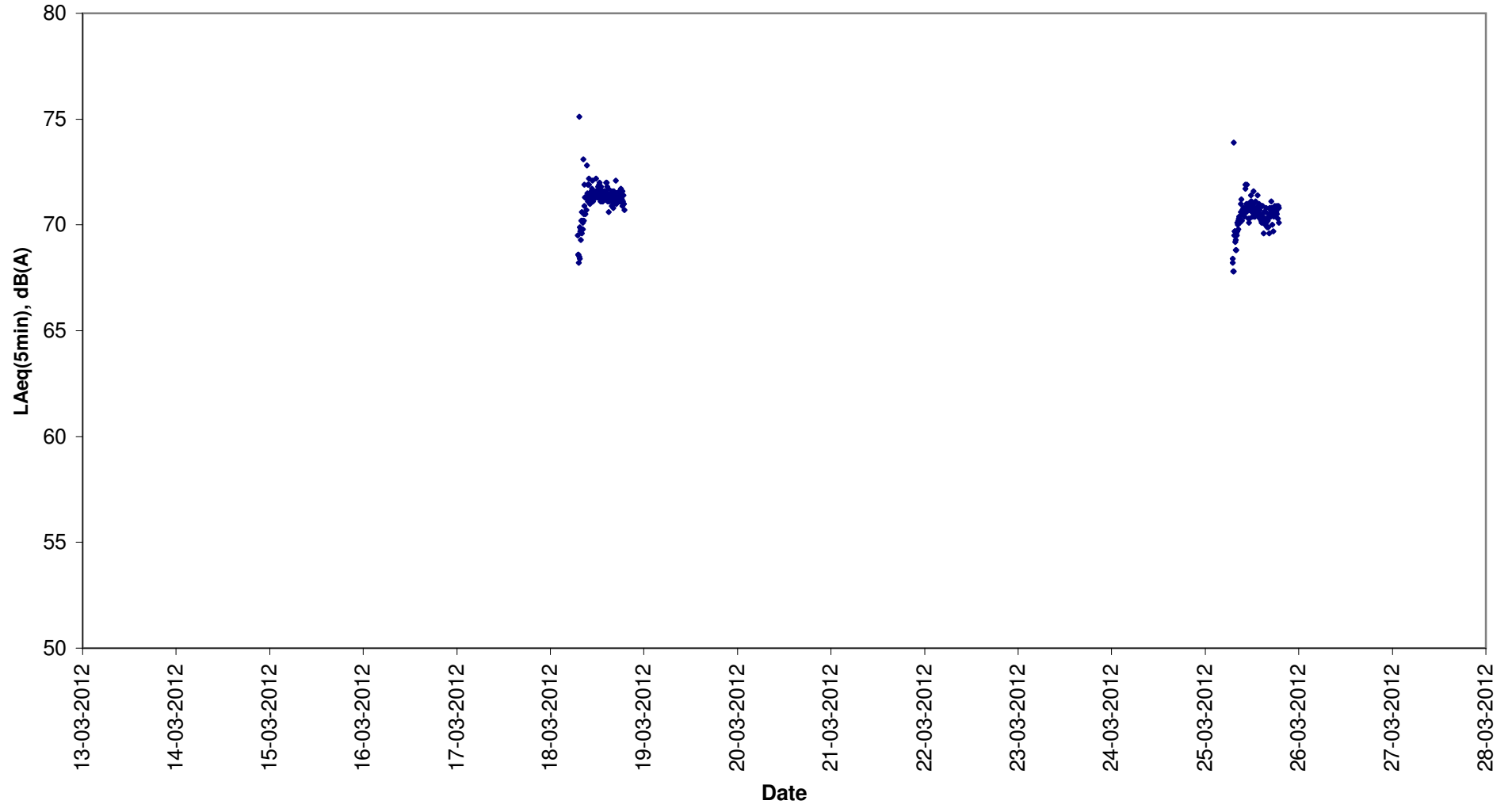
**LAeq(5min) measured at SCH02 CCC Kei To Secondary School
Holiday Daytime (0700-1900 hours)**



LAeq(30min) during Normal Weekdays Working Hours (0700 - 1900) at FSQ - North Point Fire Services Married Quarters



LAeq(5min) during Holiday Daytime (0700 - 1900) at FSQ - North Point Fire Services Married Quarters



Annex E

Baseline Water Quality Monitoring Schedule

**Installation of Submarine Gas Pipelines and Associated Facilities
from To Kwa Wan to North Point for Former Kai Tak Airport Development
Baseline Marine Water Quality Monitoring (WQM) Schedule**

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
27-Feb	28-Feb	29-Feb	01-Mar	02-Mar	03-Mar	04-Mar
					WQM Mid-Flood (9:55) Mid-Ebb (21:25)	
05-Mar	06-Mar	07-Mar	08-Mar	09-Mar	10-Mar	11-Mar
	WQM Mid-Ebb (11:10) Mid-Flood (16:38)		WQM Mid-Ebb (12:19) Mid-Flood (18:00)		WQM Mid-Ebb (13:39) Mid-Flood (19:59)	
12-Mar	13-Mar	14-Mar	15-Mar	16-Mar	17-Mar	18-Mar
	WQM Mid-Flood (09:23) Mid-Ebb (15:59)		WQM Mid-Flood (10:57) Mid-Ebb (18:37)		WQM Mid-Flood (13:39) Mid-Ebb (21:16)	
19-Mar	20-Mar	21-Mar	22-Mar	23-Mar	24-Mar	25-Mar
	WQM Mid-Ebb (11:24) Mid-Flood (16:59)		WQM Mid-Ebb (12:27) Mid-Flood (19:04)		WQM Mid-Ebb (13:26) Mid-Flood (19:41)	
26-Mar	27-Mar	28-Mar	29-Mar	30-Mar	31-Mar	01-Apr
	WQM Mid-Flood (08:12) Mid-Ebb (14:56)		WQM Mid-Flood (08:37) Mid-Ebb (16:12)			

Annex F

Calibration Reports of Water Quality Monitoring Equipment



Internal Calibration Report of Dissolved Oxygen Meter

Equipment Ref. No. : <u>ET/EW/008/004</u>	Manufacturer : <u>YSI</u>
Model No. : <u>Pro 2030</u>	Serial No. : <u>10F 101978</u>
Date of Calibration : <u>13/02/2012</u>	Calibration Due Date : <u>12/05/2012</u>

Temperature Verification

Ref. No. of Reference Thermometer : ET/0521/001
 Ref. No. of Water Bath : ---

Reference Thermometer reading	Temperature (°C)		
	Measured	20.2	Corrected
DO Meter reading	Measured	19.8	Difference
			0.1

Standardization of sodium thiosulphate (Na₂S₂O₃) solution

Reagent No. of Na ₂ S ₂ O ₃ titrant	CPE/012/4.5/001/4	Reagent No. of 0.025N K ₂ Cr ₂ O ₇	CPE/012/4.4/001/7
		Trial 1	Trial 2
Initial Vol. of Na ₂ S ₂ O ₃ (ml)		0.00	0.00
Final Vol. of Na ₂ S ₂ O ₃ (ml)		40.00	39.50
Vol. of Na ₂ S ₂ O ₃ used (ml)		40.00	39.50
Normality of Na ₂ S ₂ O ₃ solution (N)		0.02500	0.02532
Average Normality (N) of Na ₂ S ₂ O ₃ solution (N)		0.02516	
Acceptance criteria, Deviation		Less than ± 0.001N	

Calculation: Normality of Na₂S₂O₃, N = 1 / ml Na₂S₂O₃ used

Lineality Checking

Determination of dissolved oxygen content by Winkler Titration *

Purging Time (min)	2		5		10	
	1	2	1	2	1	2
Trial						
Initial Vol. of Na ₂ S ₂ O ₃ (ml)	0.00	11.10	22.10	0.00	7.40	12.20
Final Vol. of Na ₂ S ₂ O ₃ (ml)	11.10	22.10	29.60	7.40	12.20	17.10
Vol. (V) of Na ₂ S ₂ O ₃ used (ml)	11.10	11.00	7.50	7.40	4.80	4.90
Dissolved Oxygen (DO), mg/L	7.50	7.43	5.07	5.00	3.24	3.31
Acceptance criteria, Deviation	Less than + 0.3mg/L		Less than + 0.3mg/L		Less than + 0.3mg/L	

Calculation: DO (mg/L) = V x N x 8000/298

Purging time, min	DO meter reading, mg/L			Winkler Titration result *, mg/L			Difference (%) of DO Content
	1	2	Average	1	2	Average	
2	7.56	7.54	7.55	7.50	7.43	7.47	1.07
5	5.22	5.20	5.21	5.07	5.00	5.04	3.32
10	3.22	3.24	3.23	3.24	3.31	3.28	1.54
Linear regression coefficient				0.99807			



Internal Calibration Report of Dissolved Oxygen Meter

Zero Point Checking

DO meter reading, mg/L	0.00
------------------------	------

Salinity Checking

Reagent No. of NaCl (10ppt)	CPE/012/4.7/001/17	Reagent No. of NaCl (30ppt)	CPE/012/4.8/001/17
-----------------------------	--------------------	-----------------------------	--------------------

Determination of dissolved oxygen content by Winkler Titration **

Salinity (ppt)	10		30	
	1	2	1	2
Trial				
Initial Vol. of Na ₂ S ₂ O ₃ (ml)	0.00	11.50	23.10	33.60
Final Vol. of Na ₂ S ₂ O ₃ (ml)	11.50	23.10	33.60	44.00
Vol. (V) of Na ₂ S ₂ O ₃ used (ml)	11.50	11.60	10.50	10.40
Dissolved Oxygen (DO), mg/L	7.77	7.84	7.09	7.02
Acceptance criteria, Deviation	Less than + 0.3mg/L		Less than + 0.3mg/L	

Calculation: DO (mg/L) = V x N x 8000/298

Salinity (ppt)	DO meter reading, mg/L			Winkler Titration result**, mg/L			Difference (%) of DO Content
	1	2	Average	1	2	Average	
10	7.72	7.76	7.74	7.77	7.84	7.81	0.90
30	7.10	7.08	7.09	7.09	7.02	7.06	0.42

Acceptance Criteria

- (1) Differenc between temperature readings from temperature sensor of DO probe and reference thermometer : < 0.5 °C
- (2) Linear regression coefficient : >0.99
- (3) Zero checking: 0.0mg/L
- (4) Difference (%) of DO content from the meter reading and by winkler titration : within ± 5%

The equipment complies # / ~~does not comply~~ # with the specified requirements and is deemed acceptable # / unacceptable # for use.

Delete as appropriate

Calibrated by

:

hde com

Approved by :

[Signature]



Performance Check of Salinity Meter

Equipment Ref. No. : ET/EW/008/004 Manufacturer : YSI

Model No. : Pro 2030 Serial No. : 10F 101978

Date of Calibration : 13/02/2012 Due Date : 12/05/2012

Ref. No. of Salinity Standard used (30ppt)

S/001/3

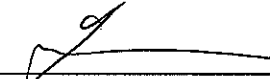
Salinity Standard (ppt)	Measured Salinity (ppt)	Difference %
30	30.3	1.00

Acceptance Criteria

Difference : <10 %

The salinity meter complies * / ~~does not comply~~ * with the specified requirements and is deemed acceptable * / ~~unacceptable~~ * for use. Measurements are traceable to national standards.

Checked by : 

Approved by : 



Performance Check of Turbidimeter

Equipment Ref. No. : ET/0505/007 Manufacturer : HACH

Model No. : 2100P Serial No. : 08060 C 030281


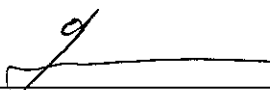
Date of Calibration : 13/01/2012 Due Date : 12/04/2012

Gelex Vial Std	Theoretical Value (NTU)	Measured Value (NTU)	Difference %
0-10 NTU	5.34	5.26	1.50
10-100 NTU	52.5	53.1	1.14
100-1000 NTU	543	538	0.92

Acceptance Criteria

Difference : <5 %

The salinity meter complies * / ~~does not comply~~ * with the specified requirements and is deemed acceptable * / ~~unacceptable~~ * for use. Measurements are traceable to national standards.

Checked by :  Approved by : 

Annex G

QA/QC Results for Suspended Solids Testing

QA/QC Results of Laboratory Analysis of Total Suspended Solids

Sampling Date	QC Sample	Sample Duplicate		Sample Spike	
	% Recovery *	Sample ID	% Error #	Sample ID	% Recovery @
03-03-2012	103.1	FC1S-1	0.0	FWM2S-2	106.4
	92.4	FWM2M-1	18.2 **	FWM5M-2	107.7
	96.4	FWM5B-1	0.0	FC4B-2	91.8
	97.9	EC1S-1	0.0	EWM2S-2	105.7
	102.6	EWM2M-1	18.2 **	EWM5M-2	105.9
	92.5	EWM5B-1	0.0	EC4B-2	98.1

Note: (*) % Recovery of QC sample should be between 80% to 120%.
 (#) % Error of Sample Duplicate should be between 0% to 10%.
 (@) % Recovery of Sample Spike should be between 80% to 120%.
 (**) % Error of Sample Duplicate >10% but invalid due to sample results less than MC

QA/QC Results of Laboratory Analysis of Total Suspended Solids

Sampling Date	QC Sample	Sample Duplicate		Sample Spike	
	% Recovery *	Sample ID	% Error #	Sample ID	% Recovery @
06-03-2012	93.1	FC1S-1	0.0	FWM2S-2	93.8
	98.6	FWM2M-1	0.0	FWM5M-2	95.8
	106.1	FWM5B-1	0.0	FC4B-2	106.0
	93.3	EC1S-1	8.0	EWM2S-2	108.0
	92.2	EWM2M-1	0.0	EWM5M-2	95.9
	100.6	EWM5B-1	0.0	EC4B-2	106.4

Note: (*) % Recovery of QC sample should be between 80% to 120%.
 (#) % Error of Sample Duplicate should be between 0% to 10%.
 (@) % Recovery of Sample Spike should be between 80% to 120%.
 (**) % Error of Sample Duplicate >10% but invalid due to sample results less than MC

QA/QC Results of Laboratory Analysis of Total Suspended Solids

Sampling Date	QC Sample	Sample Duplicate		Sample Spike	
	% Recovery *	Sample ID	% Error #	Sample ID	% Recovery @
08-03-2012	99.4	FC1S-1	0.0	FWM2S-2	94.1
	95	FWM2M-1	13.3**	FWM5M-2	93.8
	102.5	FWM5B-1	11.8**	FC4B-2	96.0
	93.3	EC1S-1	0.00	EWM2S-2	106.3
	101.8	EWM2M-1	15.4**	EWM5M-2	103.9
	97.5	EWM5B-1	10.5**	EC4B-2	100.0

Note: (*) % Recovery of QC sample should be between 80% to 120%.
 (#) % Error of Sample Duplicate should be between 0% to 10%.
 (@) % Recovery of Sample Spike should be between 80% to 120%.
 (**) % Error of Sample Duplicate >10% but invalid due to sample results less than MC

QA/QC Results of Laboratory Analysis of Total Suspended Solids

Sampling Date	QC Sample	Sample Duplicate		Sample Spike	
	% Recovery *	Sample ID	% Error #	Sample ID	% Recovery @
10-03-2012	99.6	FC1S-1	0.0	FWM2S-2	100
	101.3	FWM2M-1	0.0	FWM5M-2	94.2
	107.2	FWM5B-1	13.3**	FC4B-2	102.1
	98.8	EC1S-1	0.0	EWM2S-2	100.0
	96.2	EWM2M-1	0.0	EWM5M-2	98.0
	94.0	EWM5B-1	13.3**	EC4B-2	107.8

Note: (*) % Recovery of QC sample should be between 80% to 120%.
 (#) % Error of Sample Duplicate should be between 0% to 10%.
 (@) % Recovery of Sample Spike should be between 80% to 120%.
 (**) % Error of Sample Duplicate >10% but invalid due to sample results less than MC

QA/QC Results of Laboratory Analysis of Total Suspended Solids

Sampling Date	QC Sample	Sample Duplicate		Sample Spike	
	% Recovery *	Sample ID	% Error #	Sample ID	% Recovery @
13-03-2012	106.9	FC1S-1	0.0	FWM2S-2	86.3
	106.9	FWM2M-1	0.0	FWM5M-2	95.7
	94.0	FWM5B-1	0.0	FC4B-2	101.9
	95.9	EC1S-1	0.0	EWM2S-2	106.0
	106.0	EWM2M-1	0.0	EWM5M-2	98.0
	94.1	EWM5B-1	0.0	EC4B-2	102.0

Note: (*) % Recovery of QC sample should be between 80% to 120%.
 (#) % Error of Sample Duplicate should be between 0% to 10%.
 (@) % Recovery of Sample Spike should be between 80% to 120%.
 (**) % Error of Sample Duplicate >10% but invalid due to sample results less than MC

QA/QC Results of Laboratory Analysis of Total Suspended Solids

Sampling Date	QC Sample	Sample Duplicate		Sample Spike	
	% Recovery *	Sample ID	% Error #	Sample ID	% Recovery @
15-03-2012	102.6	FC1S-1	0.00	FWM2S-2	94.0
	94.6	FWM2M-1	15.38**	FWM5M-2	104.0
	103.6	FWM5B-1	13.33**	FC4B-2	104.2
	104.9	EC1S-1	0.00	EWM2S-2	102.1
	99.8	EWM2M-1	18.18**	EWM5M-2	100.0
	94.2	EWM5B-1	0.00	EC4B-2	102.0

Note: (*) % Recovery of QC sample should be between 80% to 120%.
 (#) % Error of Sample Duplicate should be between 0% to 10%.
 (@) % Recovery of Sample Spike should be between 80% to 120%.
 (**) % Error of Sample Duplicate >10% but invalid due to sample results less than MC

QA/QC Results of Laboratory Analysis of Total Suspended Solids

Sampling Date	QC Sample	Sample Duplicate		Sample Spike	
	% Recovery *	Sample ID	% Error #	Sample ID	% Recovery @
17-03-2012	92.4	FC1S-1	0.0	FWM2S-2	100
	97.8	FWM2M-1	0.0	FWM5M-2	99.6
	99.6	FWM5B-1	13.3**	FC4B-2	105.9
	107	EC1S-1	11.8**	EWM2S-2	102.1
	93.3	EWM2M-1	0.0	EWM5M-2	100.0
	107.1	EWM5B-1	0.0	EC4B-2	94.2

Note: (*) % Recovery of QC sample should be between 80% to 120%.
 (#) % Error of Sample Duplicate should be between 0% to 10%.
 (@) % Recovery of Sample Spike should be between 80% to 120%.
 (**) % Error of Sample Duplicate >10% but invalid due to sample results less than MC

QA/QC Results of Laboratory Analysis of Total Suspended Solids

Sampling Date	QC Sample	Sample Duplicate		Sample Spike	
	% Recovery *	Sample ID	% Error #	Sample ID	% Recovery @
20-03-2012	100.4	FC1S-1	0.0	FWM2S-2	94.1
	93.4	FWM2M-1	0.0	FWM5M-2	91.8
	96.7	FWM5B-1	0.0	FC4B-2	104.2
	106.3	EC1S-1	0.0	EWM2S-2	103.9
	95.4	EWM2M-1	0.0	EWM5M-2	105.9
	103.0	EWM5B-1	0.0	EC4B-2	104.3

Note: (*) % Recovery of QC sample should be between 80% to 120%.
 (#) % Error of Sample Duplicate should be between 0% to 10%.
 (@) % Recovery of Sample Spike should be between 80% to 120%.
 (**) % Error of Sample Duplicate >10% but invalid due to sample results less than MC

QA/QC Results of Laboratory Analysis of Total Suspended Solids

Sampling Date	QC Sample	Sample Duplicate		Sample Spike	
	% Recovery *	Sample ID	% Error #	Sample ID	% Recovery @
22-03-2012	96.3	FC1S-1	0.0	FWM2S-2	100
	106	FWM2M-1	10.53**	FWM5M-2	106.3
	99.2	FWM5B-1	0.0	FC4B-2	92.3
	99	EC1S-1	11.76**	EWM2S-2	108.3
	107.5	EWM2M-1	0.0	EWM5M-2	95.7
	92.7	EWM5B-1	15.38**	EC4B-2	98.0

Note: (*) % Recovery of QC sample should be between 80% to 120%.
 (#) % Error of Sample Duplicate should be between 0% to 10%.
 (@) % Recovery of Sample Spike should be between 80% to 120%.
 (**) % Error of Sample Duplicate >10% but invalid due to sample results less than MC

QA/QC Results of Laboratory Analysis of Total Suspended Solids

Sampling Date	QC Sample	Sample Duplicate		Sample Spike	
	% Recovery *	Sample ID	% Error #	Sample ID	% Recovery @
24-03-2012	94.8	FC1S-1	0.0	FWM2S-2	103.9
	96.6	FWM2M-1	11.76**	FWM5M-2	100.0
	101.2	FWM5B-1	0.0	FC4B-2	92.5
	105.6	EC1S-1	0.0	EWM2S-2	101.9
	102.9	EWM2M-1	13.33	EWM5M-2	94.2
	96.0	EWM5B-1	0.0	EC4B-2	102.0

Note: (*) % Recovery of QC sample should be between 80% to 120%.
 (#) % Error of Sample Duplicate should be between 0% to 10%.
 (@) % Recovery of Sample Spike should be between 80% to 120%.
 (**) % Error of Sample Duplicate >10% but invalid due to sample results less than MC

QA/QC Results of Laboratory Analysis of Total Suspended Solids

Sampling Date	QC Sample	Sample Duplicate		Sample Spike	
	% Recovery *	Sample ID	% Error #	Sample ID	% Recovery @
27-03-2012	96.1	FC1S-1	0.0	FWM2S-2	98.0
	93.1	FWM2M-1	0.0	FWM5M-2	96.2
	100.0	FWM5B-1	0.0	FC4B-2	102.0
	101.6	EC1S-1	0.0	EWM2S-2	100.0
	102.8	EWM2M-1	8.7	EWM5M-2	93.6
	103.7	EWM5B-1	0.0	EC4B-2	102.0

Note: (*) % Recovery of QC sample should be between 80% to 120%.
 (#) % Error of Sample Duplicate should be between 0% to 10%.
 (@) % Recovery of Sample Spike should be between 80% to 120%.
 (**) % Error of Sample Duplicate >10% but invalid due to sample results less than MC

QA/QC Results of Laboratory Analysis of Total Suspended Solids

Sampling Date	QC Sample	Sample Duplicate		Sample Spike	
	% Recovery *	Sample ID	% Error #	Sample ID	% Recovery @
29-03-2012	94.2	FC1S-1	15.38**	FWM2S-2	98.0
	95.2	FWM2M-1	0.00	FWM5M-2	95.9
	95.7	FWM5B-1	18.18**	FC4B-2	100.0
	99.6	EC1S-1	0.00	EWM2S-2	100.0
	92.2	EWM2M-1	9.52**	EWM5M-2	100.0
	106.8	EWM5B-1	0.00	EC4B-2	106.0

Note: (*) % Recovery of QC sample should be between 80% to 120%.
 (#) % Error of Sample Duplicate should be between 0% to 10%.
 (@) % Recovery of Sample Spike should be between 80% to 120%.
 (**) % Error of Sample Duplicate >10% but invalid due to sample results less than MC

Annex H

Baseline Water Quality Monitoring Results

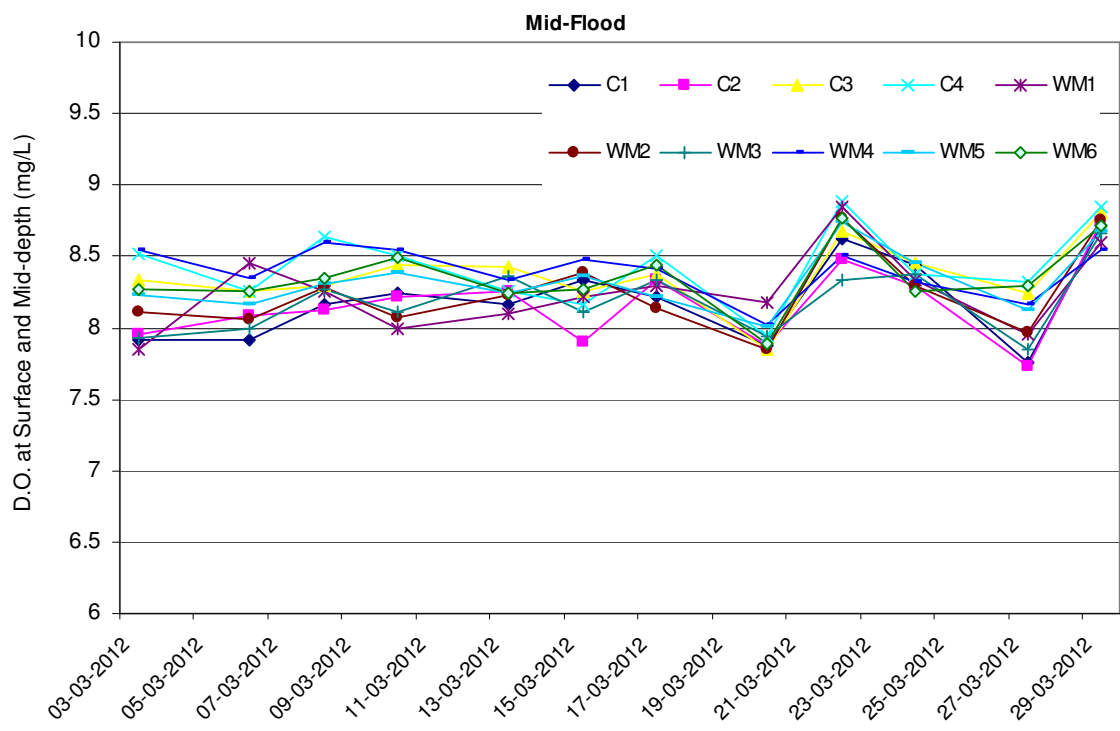
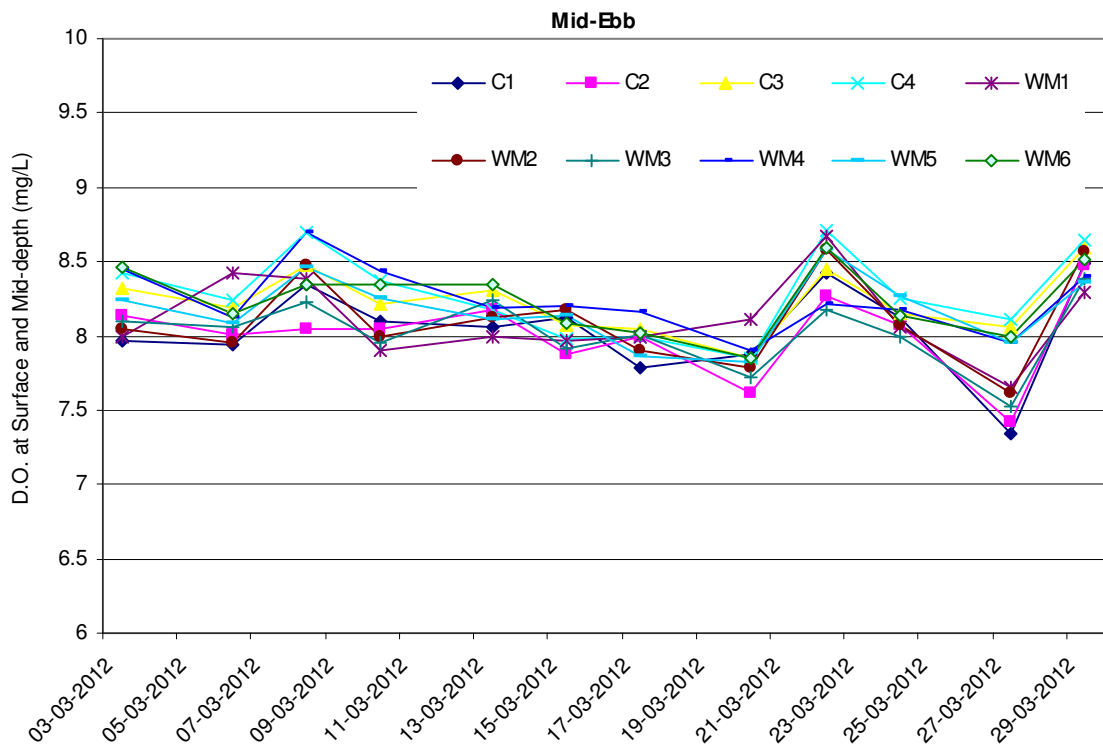


Figure H1 Baseline Monitoring – Mean Level of Dissolved Oxygen (mg L⁻¹) in surface and middle waters between 3 March 2012 and 29 March 2012 at Monitoring Stations.

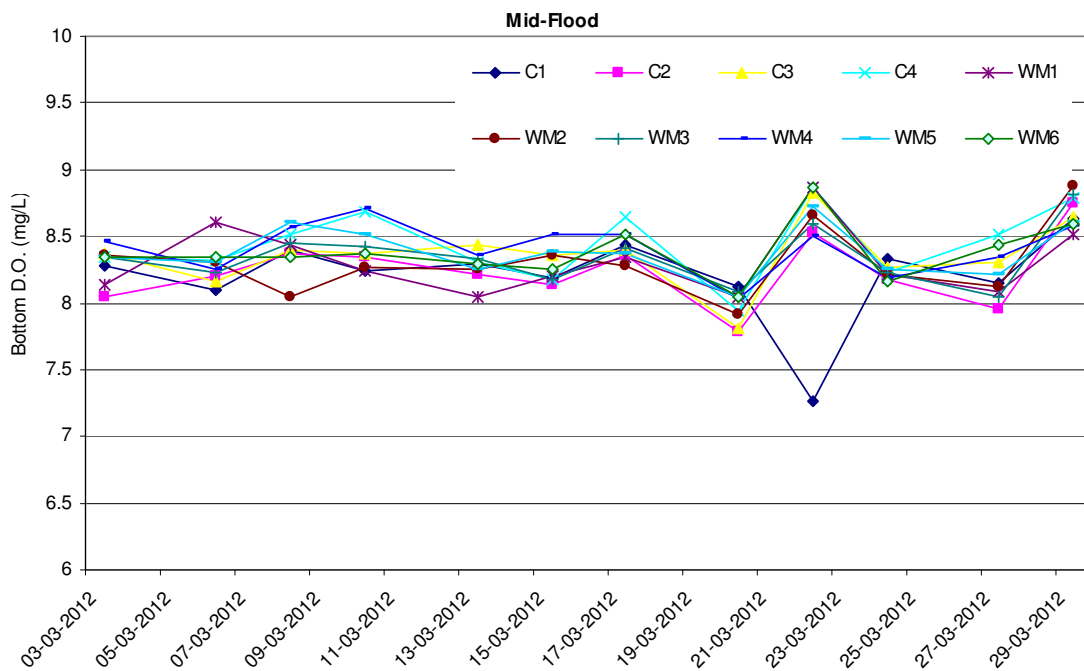
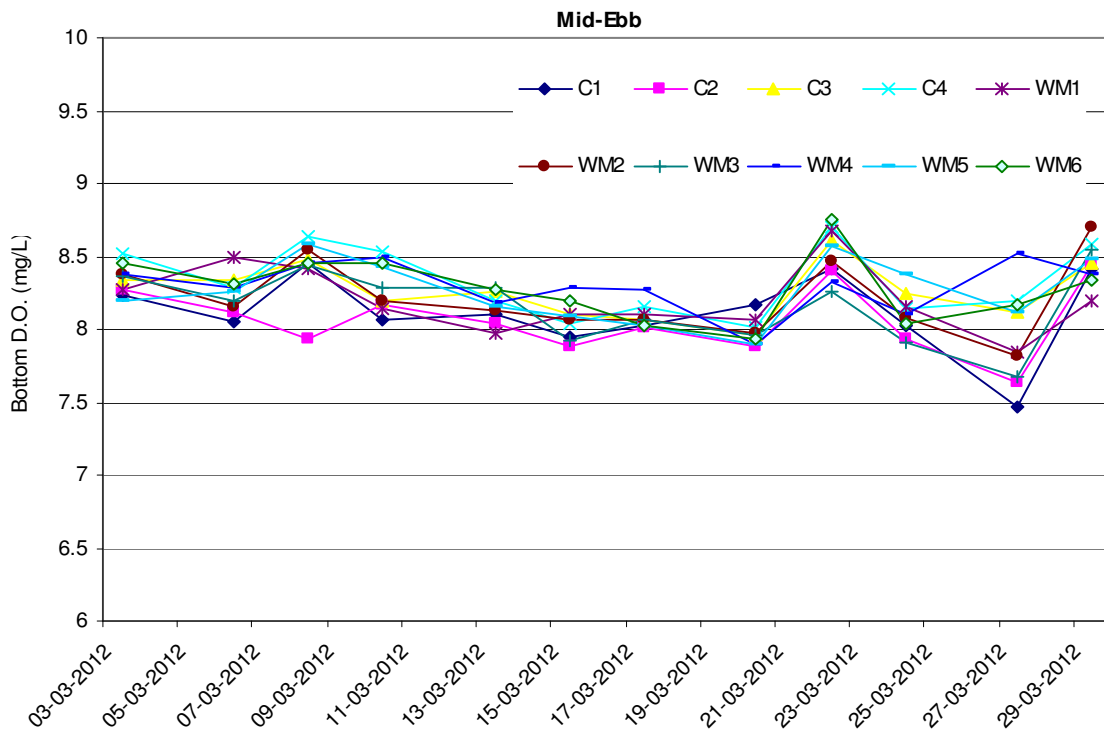


Figure H2 Baseline Monitoring – Mean Level of Dissolved Oxygen (mg L⁻¹) in bottom water between 3 March 2012 and 29 March 2012 at Monitoring Stations

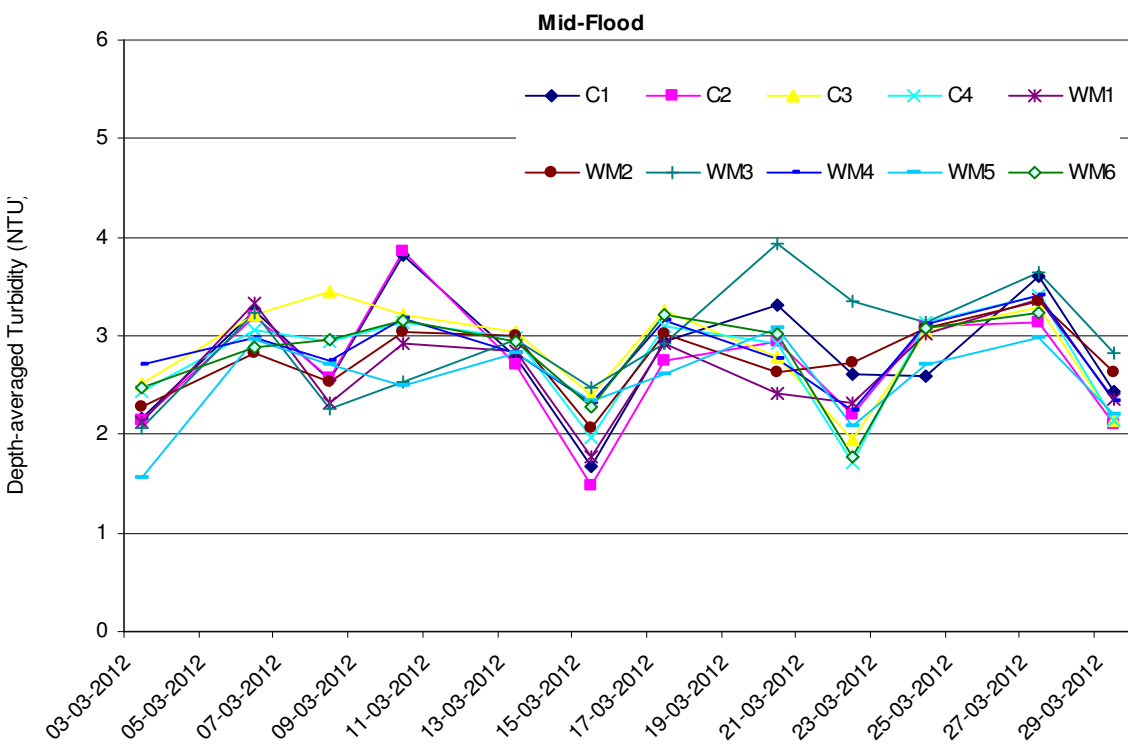
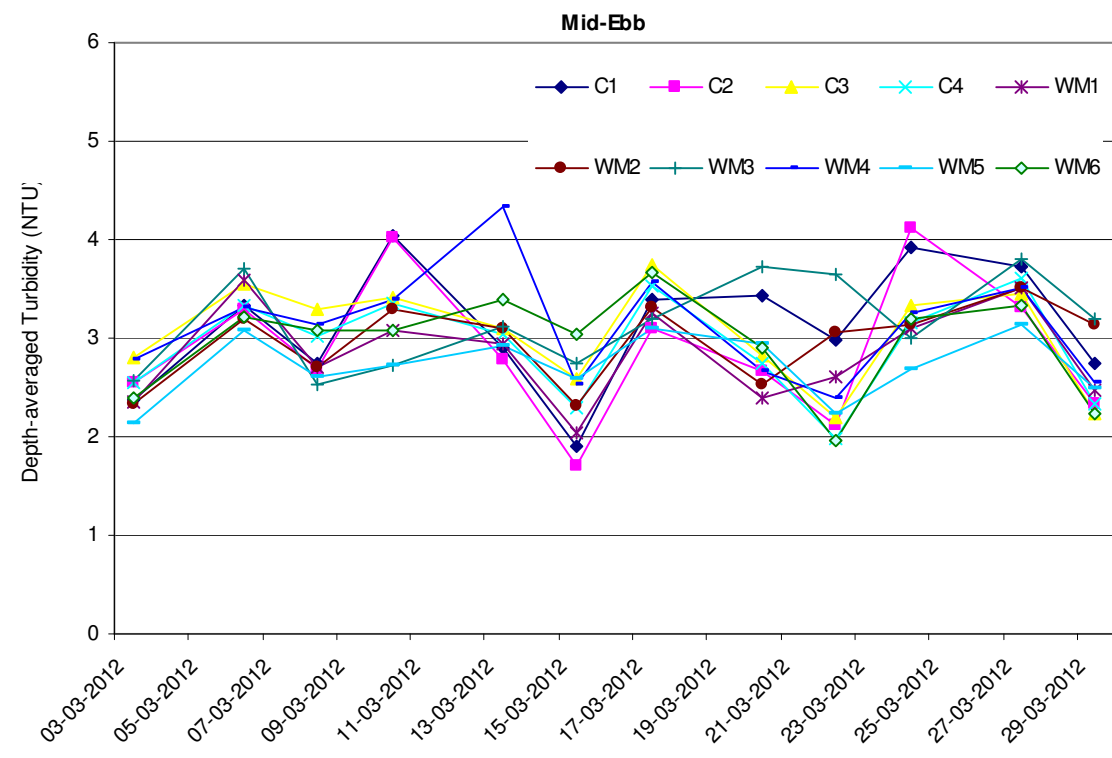


Figure H3 Baseline Monitoring – Mean Level of Turbidity (NTU) in between 3 March 2012 and 29 March 2012 at Monitoring Stations

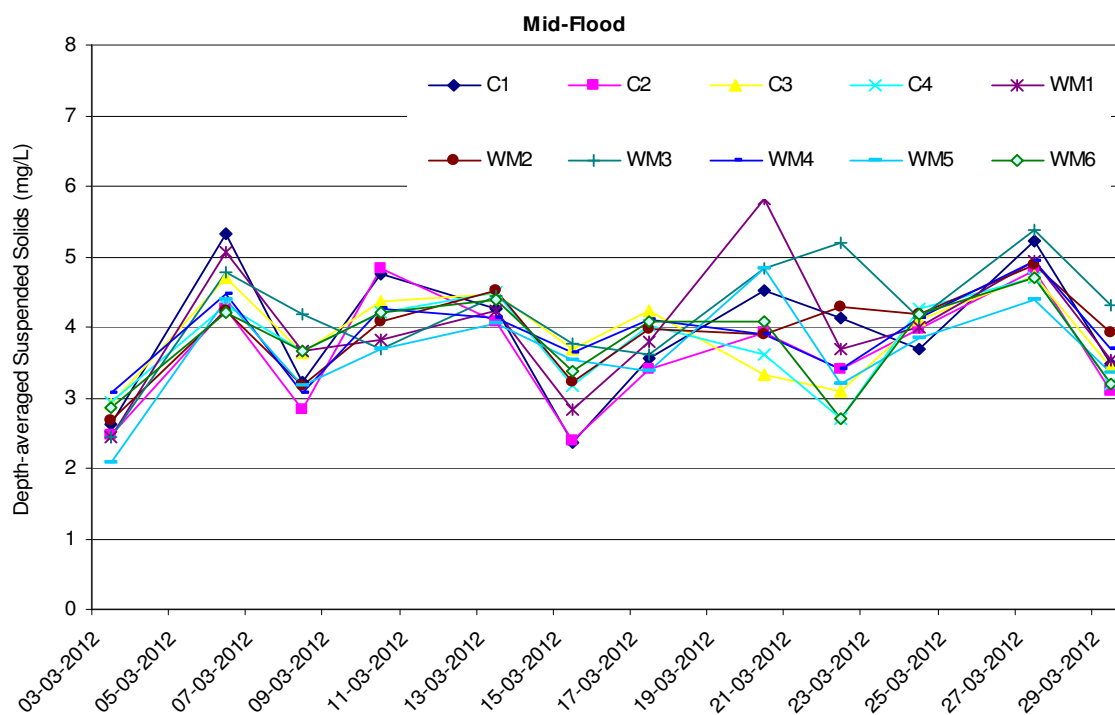
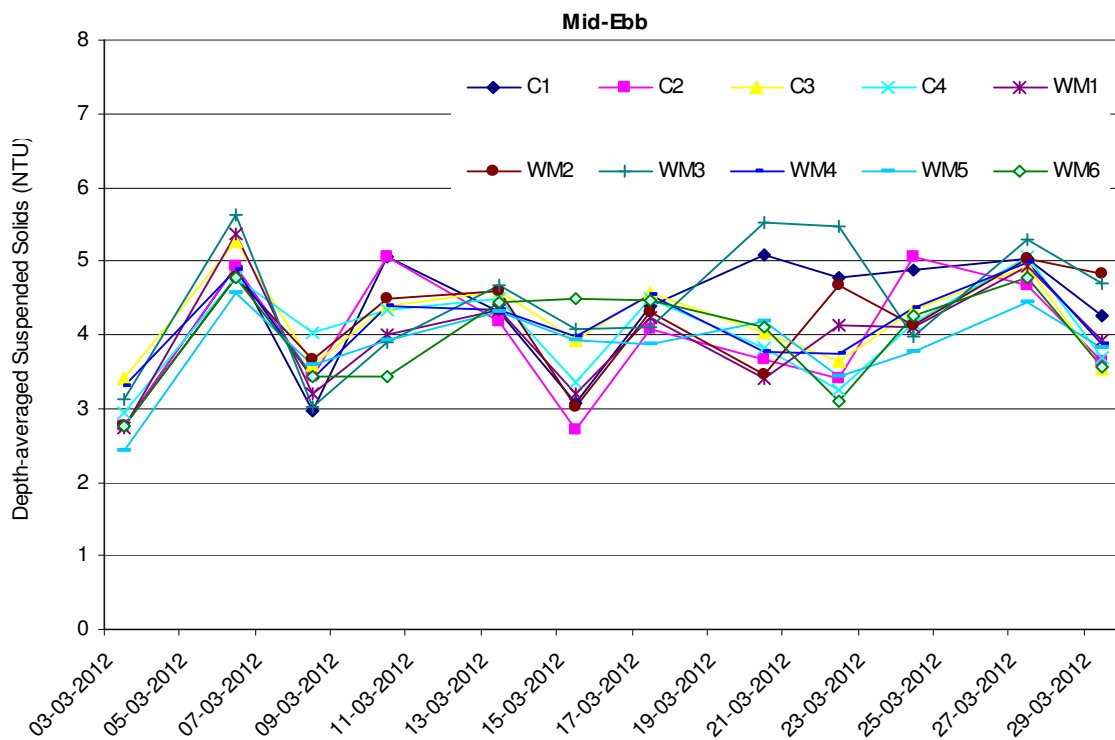


Figure H4 Baseline Monitoring – Mean Level of Suspended Solids (mg L⁻¹) in between 3 March 2012 and 29 March 2012 at Monitoring Stations

Monitoring Date	Station	Weather Condition	Sampling Time	Depth + Replicate No.	Replicate	Tidal Level	Depth (m)	Water Temperature (°C)	Salinity (ppt)	D.O. (mg/L)	Depth-averaged D.O. (mg/L)	D.O. Saturation (%)	Turbidity (NTU)	Turbidity (Depth-averaged) (NTU)	SS (mg/L)	SS (Depth-averaged) (mg/L)
03/03/2012	C1 C1 C1 C1 C1	Drizzle	9:18	S1	R1	Mid-flood	1.00	15.90	27.40	7.66	7.91	91.40	2.05	2.16	2.50	2.62
				S2	R2	Mid-flood		15.90	27.40	7.49		89.50	2.17		2.60	
				M1	R1	Mid-flood	5.65	15.40	27.70	8.27		97.90	2.35		2.60	
				M2	R2	Mid-flood		15.50	27.60	8.20		96.80	1.97		2.40	
				B1	R1	Mid-flood	10.30	15.30	27.60	8.30		98.20	2.49		2.80	
				B2	R2	Mid-flood		15.30	27.70	8.26		97.60	1.93		2.40	
	C2 C2 C2 C2 C2	Drizzle	9:37	S1	R1	Mid-flood	1.00	15.70	27.60	7.78	7.95	92.60	1.30	2.14	1.60	
				S2	R2	Mid-flood		15.60	27.70	7.77		92.40	1.31		1.80	
				M1	R1	Mid-flood	10.80	15.20	27.70	8.18		96.40	2.03		2.40	
				M2	R2	Mid-flood		15.20	27.90	8.08		95.50	2.09		2.40	
				B1	R1	Mid-flood	20.60	15.20	27.70	8.09		95.50	3.13		3.40	
				B2	R2	Mid-flood		15.20	27.80	8.01		94.70	2.96		3.20	
	C3 C3 C3 C3 C3	Drizzle	12:28	S1	R1	Mid-flood	1.00	15.40	27.80	8.27	8.33	98.00	1.74	2.52	2.20	
				S2	R2	Mid-flood		15.50	27.90	8.25		97.70	1.68		2.40	
				M1	R1	Mid-flood	6.50	15.20	27.90	8.41		99.40	2.51		2.80	
				M2	R2	Mid-flood		15.20	27.90	8.37		98.80	2.47		2.60	
				B1	R1	Mid-flood	12.00	15.20	28.00	8.38		98.90	3.40		3.80	
				B2	R2	Mid-flood		15.20	27.90	8.35		98.50	3.31		3.60	
	C4 C4 C4 C4 C4	Drizzle	11:58	S1	R1	Mid-flood	1.00	15.30	27.90	8.48	8.52	100.30	1.59	2.43	2.00	
				S2	R2	Mid-flood		15.30	27.90	8.45		99.80	1.65		2.20	
				M1	R1	Mid-flood	6.70	15.10	27.90	8.58		101.10	2.04		2.60	
				M2	R2	Mid-flood		15.10	27.90	8.56		100.80	2.11		2.60	
				B1	R1	Mid-flood	12.40	15.10	27.90	8.21		100.40	3.62		4.20	
				B2	R2	Mid-flood		15.10	27.90	8.47		99.90	3.57		4.00	
	WM1 WM1 WM1 WM1 WM1	Drizzle	8:50	S1	R1	Mid-flood	1.00	15.70	27.00	7.64	7.85	90.60	1.68	2.12	2.00	
				S2	R2	Mid-flood		15.70	27.20	7.61		90.40	1.84		2.20	
				M1	R1	Mid-flood	10.15	15.40	27.40	8.07		95.20	2.26		2.60	
				M2	R2	Mid-flood		15.40	27.40	8.07		95.40	2.20		2.40	
				B1	R1	Mid-flood	19.30	15.30	27.90	8.14		96.10	2.35		2.60	
				B2	R2	Mid-flood		15.30	27.40	8.14		96.00	2.40		2.80	
	WM2 WM2 WM2 WM2 WM2	Drizzle	10:07	S1	R1	Mid-flood	1.00	15.50	27.70	7.95	8.11	94.30	1.67	2.27	2.00	
				S2	R2	Mid-flood		15.50	27.70	7.89		93.40	1.73		2.00	
				M1	R1	Mid-flood	4.75	15.20	27.80	8.36		98.70	2.53		3.00	
				M2	R2	Mid-flood		15.20	27.80	8.24		97.20	2.32		2.80	
				B1	R1	Mid-flood	8.50	15.10	27.90	8.40		99.00	2.72		3.20	
				B2	R2	Mid-flood		15.10	27.90	8.32		98.00	2.64		3.00	
	WM3 WM3 WM3 WM3 WM3	Drizzle	10:20	S1	R1	Mid-flood	1.00	15.20	27.60	7.54	7.93	89.40	2.40	2.06	2.80	
				S2	R2	Mid-flood		15.20	27.80	7.63		90.10	2.38		2.80	
				M1	R1	Mid-flood	5.50	15.20	27.70	8.29		97.90	2.21		2.60	
				M2	R2	Mid-flood		15.20	27.80	8.24		97.20	1.96		2.20	
				B1	R1	Mid-flood	10.00	15.20	27.80	8.33		98.20	1.53		2.00	
				B2	R2	Mid-flood		15.20	27.90	8.35		98.60	1.86		2.20	
	WM4 WM4 WM4 WM4 WM4	Drizzle	10:43	S1	R1	Mid-flood	1.00	15.30	27.90	8.57	8.54	100.80	1.64	2.71	2.00	
				S2	R2	Mid-flood		15.30	27.70	8.50		100.10	1.54		1.80	
				M1	R1	Mid-flood	6.75	15.10	27.90	8.57		101.10	2.66		3.00	
				M2	R2	Mid-flood		15.10	27.80	8.53		100.60	2.72		3.20	
				B1	R1	Mid-flood	12.50	15.10	27.90	8.45		99.60	3.81		4.20	
				B2	R2	Mid-flood		15.10	27.90	8.47		100.00	3.89		4.20	
	WM5 WM5 WM5 WM5 WM5	Drizzle	11:08	S1	R1	Mid-flood	1.00	15.30	27.90	8.21	8.23	97.30	1.26	1.56	2.00	
				S2	R2	Mid-flood		15.20	27.80	8.17		96.40	1.32		2.00	
				M1	R1	Mid-flood	6.20	15.20	27.90	8.25		97.40	1.55		2.00	
				M2	R2	Mid-flood		15.20	27.90	8.27		97.80	1.50		2.00	
				B1	R1	Mid-flood	11.40	15.10	27.90	8.33		98.30	1.84		2.00	
				B2	R2	Mid-flood		15.10	27.90	8.36		97.90	1.90		2.40	
	WM6 WM6 WM6 WM6 WM6	Drizzle	11:33	S1	R1	Mid-flood	1.00	15.30	27.90	8.27	8.27	97.60	1.74	2.47	2.20	
				S2	R2	Mid-flood		15.30	27.90	8.29		98.00	1.67		2.00	
				M1	R1	Mid-flood	6.15	15.30	27.90	8.28		97.90	2.54		3.00	
				M2	R2	Mid-flood		15.20	27.80	8.25		97.30	2.60		3.00	
				B1	R1	Mid-flood	11.30	15.10	27.90	8.34		98.50	3.17		3.60	
				B2	R2	Mid-flood		15.00	27.90	8.36		98.90	3.10		3.40	
	C1 C1 C1 C1 C1	Drizzle	17:58	S1	R1	Mid-ebb	1.00	15.80	27.40	7.79	7.97	92.70	2.30	2.38	2.50	
				S2	R2	Mid-ebb		15.90	27.30	7.82		93.10	2.38		2.80	
				M1	R1	Mid-ebb	5.45	15.50	27.60	8.11		96.50	2.11		2.40	
				M2	R2	Mid-ebb		15.50	27.60	8.15		97.00	2.20		2.60	
				B1	R1	Mid-ebb	9.90	15.30	27.70	8.25		98.20	2.69		3.20	
				B2	R2	Mid-ebb		15.30	27.70	8.20		97.60	2.61		3.00	
	C2 C2 C2 C2 C2	Drizzle	18:18	S1	R1	Mid-ebb	1.00	15.60	27.80	8.01	8.14	95.30	1.99	2.55	2.20	
				S2	R2	Mid-ebb		15.70	27.70	7.98		95.00	1.94		2.20	
				M1	R1	Mid-ebb	10.45	15.30	27.80	8.30		98.80	2.72		3.00	
				M2	R2	Mid-ebb		15.10	27.80	8.26		96.30	2.68		2.80	
				B1	R1	Mid-ebb	19.90	15.20	27.90	8.29		98.70	3.01		3.40	
				B2	R2	Mid-ebb		15.20	27.80	8.24		98.10	2.94		3.00	
	C3 C3 C3 C3 C3	Drizzle	21:10	S1	R1	Mid-ebb	1.00	15.20	27.90	8.29	8.32	98.70	2.10	2.80	2.40	
				S2	R2	Mid-ebb		15.10	27.80	8.26		98.30	2.04		2.40	
				M1	R1	Mid-ebb	6.20	15.10	27.90	8.39		99.80	2.78		3.20	
				M2	R2	Mid-ebb		15.10	27.90	8.35		99.40	2.85		3.40	
				B1	R1	Mid-ebb	11.40	15.20	27.90	8.36		99.50	3.55		4.60	
				B2	R2	Mid-ebb		15.10	28.00	8.31		98.90	3.49		4.40	
	C4 C4 C4 C4 C4	Drizzle	20:42	S1	R1	Mid-ebb	1.00	15.10	27.90	8.36	8.42	99.50	1.88	2.54	2.20	
				S2	R2	Mid-ebb		15.10	27.90	8.31		98.90	1.95		2.40	
				M1	R1	Mid-ebb	6.55	15.10	27.90	8.52		101.40	2.15		2.60	
				M2	R2	Mid-ebb		15.00	27.80	8.48		100.90	2.22		2.60	
				B1	R1	Mid-ebb	12.10	15.10	27.90	8.50		101.20	3.49		4.00	
				B2	R2	Mid-ebb		15.10	27.90	8.53		101.50	3.57		4.00	
	WM1 WM1 WM1 WM1 WM1	Drizzle	17:48	S1	R1	Mid-ebb	1.00	15.80	27.30	7.80	8.00	92.80	1.94	2.36	2.40	
				S2	R2	Mid-ebb		15.70	27.30	7.84		93.30	1.86		2.20	
				M1	R1	Mid-ebb	9.80	15.30	27.50	8.15		97.00	2.44		2.80	
				M2	R2	Mid-ebb		15.30	27.40	8.20		97.60	2.50		2.80	
				B1	R1	Mid-ebb	18.60	15.30	27.40	8.29		98.70	2.74		3.20	
				B2	R2	Mid-ebb		15.40	27.40	8.25		98.20	2.67		3.00	
	WM2 WM2 WM2 WM2 WM2	Drizzle	18:53	S1	R1	Mid-ebb	1.00	15.50	27.80	7.88	8.05	93.80	1.60	2.34	2.00	
				S2	R2	Mid-ebb		15.40	27.80	7.94		94.50	1.64		2.00	
				M1	R1	Mid-ebb	5.00	15.10	27.80	8.21		97.70	2.59		3.00	
				M2	R2	Mid-ebb		15.10	27.90	8.17		97.20	2.50		3.00	
				B1	R1	Mid-ebb	9.00	15.20	27.90	8.36		99.50	2.90		3.40	
				B2	R2	Mid-ebb		15.10	27.90	8.39		99.80	2.83		3.20	
	WM3 WM3 WM3 WM3 WM3	Drizzle	19:08	S1	R1	Mid-ebb	1.00	15.30	27.70	7.84	8.10	93.30	2.60	2.57	3.00	
				S2	R2	Mid-ebb		15.30	27.80	7.90		94.00	2.54		3.00	
				M1	R1	Mid-ebb	5.30	15.10	27.80	8.30		98.80	2.77		3.60	
				M2	R2	Mid-ebb		15.10	27.80	8.35		99.40	2.70		3.40	
B1				R1	Mid-ebb	9.60	15.20	27.90	8.37	99.60		2.44	2.80			
B2				R2	Mid-ebb		15.10	27.90	8.35	99.40		2.39	3.00			
WM4 WM4 WM4 WM4 WM4	Drizzle	19:29	S1	R1	Mid-ebb	1.00	15.20	27.80	8.39	8.45	99.80	1.77	2.78	2.20		
			S2	R2	Mid-ebb		15.20	27.80	8.44		100.40	1.68		2.20		
			M1	R1	Mid-ebb	6.10	15.10	27.90	8.49		101.00	2.88		3.40		
			M2	R2	Mid-ebb		15.10	27.90	8.46		100.70	2.86		3.40		
			B1	R1	Mid-ebb	11.80	15.10	27.90	8.36		99.50	3.70		4.40		
			B2	R2	Mid-ebb		15.									

Monitoring Date	Station	Weather Condition	Sampling Time	Depth + Replicate No.	Replicate	Tidal Level	Depth (m)	Water Temperature (°C)	Salinity (ppt)	D.O. (mg/L)	Depth-averaged D.O. (mg/L)	D.O. Saturation (%)	Turbidity (NTU)	Turbidity (Depth-averaged) (NTU)	SS (mg/L)	SS (Depth-averaged) (mg/L)
06/03/2012	C1	Cloudy	14:25	S1	R1	Mid-flood	1.00	16.20	26.70	7.94	7.92	94.40	3.84	3.25	6.00	5.33
				S2	R2	Mid-flood		16.20	26.70	8.02		95.40	3.90			
				M1	R1	Mid-flood	5.90	16.00	26.80	7.81		93.90	2.79			
				M2	R2	Mid-flood		16.00	26.80	7.89		93.80	2.84			
				B1	R1	Mid-flood	10.80	15.80	26.80	8.12		96.60	3.05			
				B2	R2	Mid-flood		15.80	26.80	8.08		96.20	3.10			
	C2	Cloudy	14:47	S1	R1	Mid-flood	1.00	16.40	26.60	8.05	8.08	95.70	3.28	3.19	4.80	
				S2	R2	Mid-flood		16.40	26.60	7.97		94.80	3.35			
				M1	R1	Mid-flood	10.80	16.10	26.90	8.12		96.60	3.01			
				M2	R2	Mid-flood		16.10	26.90	8.16		97.10	3.08			
				B1	R1	Mid-flood	20.60	15.90	27.00	8.19		97.40	3.17			
				B2	R2	Mid-flood		15.90	27.00	8.21		97.60	3.22			
	C3	Cloudy	17:35	S1	R1	Mid-flood	1.00	16.60	27.00	8.18	8.25	97.30	2.80	3.22	4.00	
				S2	R2	Mid-flood		16.60	27.10	8.21		97.60	2.86			
				M1	R1	Mid-flood	6.40	16.30	27.00	8.29		98.60	3.06			
				M2	R2	Mid-flood		16.30	27.00	8.33		99.10	3.12			
				B1	R1	Mid-flood	11.80	16.00	27.10	8.12		96.60	3.72			
				B2	R2	Mid-flood		15.90	27.10	8.19		97.50	3.78			
	C4	Cloudy	17:07	S1	R1	Mid-flood	1.00	16.60	27.00	8.31	8.26	98.90	2.68	3.06	4.00	
				S2	R2	Mid-flood		16.50	27.00	8.34		99.20	2.72			
				M1	R1	Mid-flood	6.50	16.30	27.10	8.22		97.80	2.94			
				M2	R2	Mid-flood		16.20	27.10	8.18		97.30	3.00			
				B1	R1	Mid-flood	12.00	16.00	27.10	8.29		98.70	3.54			
				B2	R2	Mid-flood		16.00	27.20	8.35		99.40	3.47			
	WM1	Cloudy	14:00	S1	R1	Mid-flood	1.00	15.90	26.50	8.41	8.45	100.10	2.53	3.34	3.80	
				S2	R2	Mid-flood		16.00	26.60	8.39		99.80	2.47			
				M1	R1	Mid-flood	10.30	15.80	26.90	8.52		101.30	3.50			
				M2	R2	Mid-flood		15.70	26.90	8.47		100.70	3.58			
				B1	R1	Mid-flood	19.60	15.90	27.00	8.58		102.10	4.04			
				B2	R2	Mid-flood		15.70	27.10	8.62		102.60	3.92			
	WM2	Cloudy	15:12	S1	R1	Mid-flood	1.00	16.40	26.70	8.00	8.06	95.20	2.48	2.83	3.60	
				S2	R2	Mid-flood		16.40	26.70	8.05		95.70	2.54			
				M1	R1	Mid-flood	4.90	16.20	26.70	8.11		96.50	2.95			
				M2	R2	Mid-flood		16.20	26.80	8.09		96.20	2.99			
				B1	R1	Mid-flood	8.80	16.00	26.90	8.27		98.40	2.97			
				B2	R2	Mid-flood		16.00	26.90	8.32		99.00	3.04			
	WM3	Cloudy	15:31	S1	R1	Mid-flood	1.00	16.50	26.70	7.89	7.99	93.80	2.59	3.23	3.60	
				S2	R2	Mid-flood		16.40	26.80	7.94		94.40	2.66			
				M1	R1	Mid-flood	5.70	16.20	26.80	8.03		95.60	3.43			
				M2	R2	Mid-flood		16.20	26.90	8.10		96.30	3.47			
				B1	R1	Mid-flood	10.40	15.90	27.00	8.21		97.60	3.63			
				B2	R2	Mid-flood		16.00	27.00	8.25		98.20	3.58			
	WM4	Cloudy	15:53	S1	R1	Mid-flood	1.00	16.30	26.70	8.54	8.35	99.20	2.94	2.98	4.00	
				S2	R2	Mid-flood		16.40	26.80	8.29		98.60	2.63			
				M1	R1	Mid-flood	6.90	16.10	26.90	8.38		99.70	3.01			
				M2	R2	Mid-flood		16.10	27.00	8.40		99.90	3.07			
				B1	R1	Mid-flood	12.80	15.90	27.10	8.24		98.10	3.31			
				B2	R2	Mid-flood		16.00	27.10	8.28		98.50	3.26			
	WM5	Cloudy	16:19	S1	R1	Mid-flood	1.00	16.50	26.80	8.11	8.16	96.50	2.74	2.96	4.20	
				S2	R2	Mid-flood		16.50	26.90	8.14		96.80	2.80			
				M1	R1	Mid-flood	6.00	16.20	27.00	8.18		97.30	2.94			
				M2	R2	Mid-flood		16.20	27.00	8.22		97.80	3.01			
				B1	R1	Mid-flood	11.00	16.00	27.10	8.30		98.70	3.12			
				B2	R2	Mid-flood		16.00	27.20	8.29		98.50	3.16			
	WM6	Cloudy	16:43	S1	R1	Mid-flood	1.00	16.50	26.90	8.23	8.26	97.90	2.48	2.88	3.60	
				S2	R2	Mid-flood		16.50	27.00	8.27		98.40	2.55			
				M1	R1	Mid-flood	6.20	16.20	27.00	8.29		98.60	2.70			
				M2	R2	Mid-flood		16.20	27.10	8.25		98.20	2.76			
				B1	R1	Mid-flood	11.40	15.90	27.20	8.33		99.10	3.40			
				B2	R2	Mid-flood		16.00	27.20	8.37		99.60	3.38			
	C1	Cloudy	9:42	S1	R1	Mid-ebb	1.00	16.30	26.50	7.89	7.94	94.70	4.07	3.33	6.00	
				S2	R2	Mid-ebb		16.30	26.50	7.92		95.00	4.15			
				M1	R1	Mid-ebb	5.80	16.00	26.80	7.99		95.20	2.82			
				M2	R2	Mid-ebb		16.00	26.80	7.97		94.80	2.89			
				B1	R1	Mid-ebb	10.60	15.90	26.80	8.06		95.90	3.05			
				B2	R2	Mid-ebb		15.90	26.80	8.03		95.50	3.01			
	C2	Cloudy	10:03	S1	R1	Mid-ebb	1.00	16.30	26.50	7.96	8.01	94.50	3.57	3.29	5.20	
				S2	R2	Mid-ebb		16.30	26.50	7.98		94.80	3.50			
				M1	R1	Mid-ebb	10.70	16.00	26.80	8.04		95.60	2.99			
				M2	R2	Mid-ebb		16.00	26.70	8.07		95.90	3.06			
				B1	R1	Mid-ebb	20.40	15.90	26.80	8.10		96.40	3.27			
				B2	R2	Mid-ebb		15.80	26.90	8.14		96.80	3.34			
	C3	Cloudy	12:25	S1	R1	Mid-ebb	1.00	16.60	26.80	8.09	8.19	96.30	3.09	3.54	4.40	
				S2	R2	Mid-ebb		16.60	26.70	8.13		96.70	3.01			
				M1	R1	Mid-ebb	6.30	15.90	27.00	8.25		98.00	3.58			
				M2	R2	Mid-ebb		16.00	27.00	8.29		98.40	3.50			
				B1	R1	Mid-ebb	11.60	15.80	27.00	8.32		99.30	4.01			
				B2	R2	Mid-ebb		15.90	27.10	8.35		99.80	4.07			
	C4	Cloudy	12:05	S1	R1	Mid-ebb	1.00	16.50	26.80	8.15	8.24	96.80	3.12	3.34	4.60	
				S2	R2	Mid-ebb		16.60	26.80	8.18		97.30	3.08			
				M1	R1	Mid-ebb	6.40	16.00	27.00	8.29		98.50	3.21			
				M2	R2	Mid-ebb		16.00	27.00	8.33		99.30	3.17			
				B1	R1	Mid-ebb	11.80	15.90	27.10	8.26		98.40	3.74			
				B2	R2	Mid-ebb		15.80	27.10	8.30		98.90	3.69			
	WM1	Cloudy	9:15	S1	R1	Mid-ebb	1.00	15.90	26.50	8.37	8.42	99.40	2.39	3.59	3.60	
				S2	R2	Mid-ebb		15.90	26.50	8.35		99.10	2.44			
				M1	R1	Mid-ebb	10.20	15.80	26.80	8.45		100.60	3.75			
				M2	R2	Mid-ebb		15.80	26.80	8.49		101.10	3.70			
				B1	R1	Mid-ebb	19.30	15.70	26.90	8.53		101.20	4.68			
				B2	R2	Mid-ebb		15.70	26.90	8.47		100.80	4.60			
	WM2	Cloudy	10:27	S1	R1	Mid-ebb	1.00	16.40	26.70	7.90	7.96	93.60	2.97	3.19	4.40	
				S2	R2	Mid-ebb		16.40	26.60	7.94		94.10	3.04			
				M1	R1	Mid-ebb	4.90	16.00	26.90	7.99		95.20	3.12			
				M2	R2	Mid-ebb		16.00	26.90	8.02		95.50	3.17			
				B1	R1	Mid-ebb	8.80	15.90	26.90	8.17		97.30	3.44			
				B2	R2	Mid-ebb		15.90	26.80	8.15		97.00	3.38			
	WM3	Cloudy	10:47	S1	R1	Mid-ebb	1.00	16.40	26.70	8.02	8.06	95.10	3.40	3.71	5.20	
				S2	R2	Mid-ebb		16.30	26.70	8.05		95.50	3.45			
				M1	R1	Mid-ebb	5.60	16.10	26.90	8.11		96.50	4.01			
				M2	R2	Mid-ebb		16.00	26.90	8.07		96.00	3.96			
B1				R1	Mid-ebb	10.20	15.90	26.90	8.22	97.70		3.74				
B2				R2	Mid-ebb		15.80	27.00	8.17	97.00		3.70				
WM4	Cloudy	11:10	S1	R1	Mid-ebb	1.00	16.40	26.70	8.09	8.13	96.30	2.97	3.31	4.40		
			S2	R2	Mid-ebb		16.40	26.60	8.06		95.90	2.90				
			M1	R1	Mid-ebb	6.60	16.00	26.90	8.17		97.10	3.43				
			M2	R2	Mid-ebb		16.10	26.90	8.20		97.50	3.40				
			B1	R1	Mid-ebb	12.20	15.90	26.90	8.26		98.20	3.55				
			B2	R2	Mid-ebb		15.90	26.90	8.26		98.20	3.55				
WM5	Cloudy	11:29	S1	R1	Mid-ebb	1.00	16.50	26.70	8.04	8.08	95.40	3.80	3.07	5.20		
			S2	R2	Mid-ebb		16.40	26.70	8.07		95.40	3.84				
			M1	R1	Mid-ebb	5.90	16.00	27.00	8.09		96.20	3.07				
			M2	R2	Mid-ebb		16.00	27.00	8.13		96.60	3.01				
			B1	R1	Mid-ebb	10.80	15.90	27.00	8.27		98.00	3.29				
			B2	R2	Mid-ebb		15.80	27.10	8.24		97.60	3.26				
WM6	Cloudy	11:47	S1	R1	Mid-ebb	1.00	16.50	26.70	8.11	8.15	96.30	3.06	3.22	4.80		
			S2	R2	Mid-ebb		16.50	26.80	8.08		65.90	3.01				
			M1	R1	Mid-ebb	6.20	16.10	27.00	8.21		97.30	2.99				
			M2	R2	Mid-ebb		16.00	26.90	8.18		96.90	3.04				
			B1	R1	Mid-ebb	11.40	15.90	27.00	8.29		98.60	3.60				

Monitoring Date	Station	Weather Condition	Sampling Time	Depth + Replicate No.	Replicate	Tidal Level	Depth (m)	Water Temperature (°C)	Salinity (ppt)	D.O. (mg/L)	Depth-averaged D.O. (mg/L)	D.O. Saturation (%)	Turbidity (NTU)	Turbidity (Depth-averaged) (NTU)	SS (mg/L)	SS (Depth-averaged) (mg/L)
08/03/2012	C1	Cloudy	15:41	S1	R1	Mid-flood	1.00	16.20	26.80	8.01	8.16	96.10	2.24	2.56	2.50	3.22
				S2	R2	Mid-flood		16.20	26.90	8.02		96.20	2.30		2.40	
				M1	R1	Mid-flood	5.70	16.10	27.00	8.26		99.50	2.56		2.60	
				M2	R2	Mid-flood		16.00	27.10	8.33		100.10	2.52		2.20	
				B1	R1	Mid-flood	10.40	16.20	27.20	8.42		101.00	2.85		5.00	
				B2	R2	Mid-flood		16.20	27.20	8.37		100.40	2.90		5.20	
	C2	Cloudy	16:05	S1	R1	Mid-flood	1.00	16.30	26.80	8.01	8.12	96.10	2.16	2.58	3.00	2.83
				S2	R2	Mid-flood		16.20	26.90	8.08		96.90	2.12		3.20	
				M1	R1	Mid-flood	10.90	16.20	27.00	8.19		98.30	2.50		2.60	
				M2	R2	Mid-flood		16.10	27.10	8.21		98.50	2.57		2.80	
				B1	R1	Mid-flood	20.80	16.00	27.20	8.34		100.10	3.02		2.60	
				B2	R2	Mid-flood		15.90	27.20	8.39		100.70	3.09		2.80	
	C3	Cloudy	19:12	S1	R1	Mid-flood	1.00	16.20	26.80	8.33	8.29	99.90	2.83	3.45	2.80	3.63
				S2	R2	Mid-flood		16.30	26.80	8.30		99.60	2.81		3.00	
				M1	R1	Mid-flood	6.60	16.10	27.20	8.28		99.40	3.56		3.40	
				M2	R2	Mid-flood		16.10	27.10	8.24		98.90	3.51		3.40	
				B1	R1	Mid-flood	12.20	16.00	27.20	8.39		100.70	3.97		4.40	
				B2	R2	Mid-flood		16.00	27.20	8.41		100.90	3.99		4.80	
	C4	Cloudy	18:40	S1	R1	Mid-flood	1.00	16.30	26.90	8.54	8.63	102.50	2.37	2.95	2.80	3.65
				S2	R2	Mid-flood		16.30	26.90	8.59		103.10	2.44		3.00	
				M1	R1	Mid-flood	6.80	16.20	27.10	8.74		104.90	3.05		3.80	
				M2	R2	Mid-flood		16.20	27.10	8.65		103.80	3.11		3.40	
				B1	R1	Mid-flood	12.60	16.10	27.30	8.48		101.80	3.34		4.40	
				B2	R2	Mid-flood		16.10	27.20	8.53		102.40	3.40		4.50	
	WM1	Cloudy	15:15	S1	R1	Mid-flood	1.00	16.30	26.90	8.24	8.26	98.90	2.12	2.31	3.40	3.67
				S2	R2	Mid-flood		16.30	27.00	8.18		98.20	2.10		3.40	
				M1	R1	Mid-flood	10.50	16.20	27.30	8.30		99.60	2.25		3.40	
				M2	R2	Mid-flood		16.10	27.20	8.33		100.00	2.27		3.60	
				B1	R1	Mid-flood	20.00	16.30	27.30	8.41		100.90	2.54		4.20	
				B2	R2	Mid-flood		16.20	27.30	8.45		101.40	2.59		4.00	
	WM2	Cloudy	16:33	S1	R1	Mid-flood	1.00	16.40	26.80	8.17	8.28	98.00	2.31	2.54	2.20	3.17
				S2	R2	Mid-flood		16.30	26.70	8.19		98.30	2.39		2.50	
				M1	R1	Mid-flood	4.90	16.10	27.20	8.34		100.10	2.41		3.50	
				M2	R2	Mid-flood		16.20	27.30	8.41		100.90	2.43		3.80	
				B1	R1	Mid-flood	8.80	16.10	27.10	8.06		96.70	2.81		3.40	
				B2	R2	Mid-flood		16.10	27.10	8.01		96.10	2.88		3.60	
	WM3	Cloudy	17:04	S1	R1	Mid-flood	1.00	16.20	26.80	8.16	8.27	97.90	2.14	2.26	3.00	4.17
				S2	R2	Mid-flood		16.30	26.90	8.08		96.90	2.18		2.80	
				M1	R1	Mid-flood	5.60	16.00	27.00	8.40		100.80	2.36		4.60	
				M2	R2	Mid-flood		16.10	27.10	8.45		101.40	2.39		4.20	
				B1	R1	Mid-flood	10.20	16.00	27.20	8.42		101.00	2.24		5.00	
				B2	R2	Mid-flood		16.00	27.10	8.47		101.80	2.27		4.20	
	WM4	Cloudy	17:26	S1	R1	Mid-flood	1.00	16.50	27.00	8.62	8.60	103.40	2.20	2.75	2.60	3.07
				S2	R2	Mid-flood		16.60	26.90	8.66		103.90	2.23		2.40	
				M1	R1	Mid-flood	6.90	16.10	27.10	8.52		102.20	2.84		3.00	
				M2	R2	Mid-flood		16.10	27.20	8.60		103.20	2.90		3.00	
				B1	R1	Mid-flood	12.80	16.00	27.30	8.58		102.90	3.15		3.60	
				B2	R2	Mid-flood		16.00	27.30	8.55		102.60	3.17		3.80	
	WM5	Cloudy	17:51	S1	R1	Mid-flood	1.00	16.40	26.90	8.23	8.31	98.80	2.36	2.71	2.20	3.18
				S2	R2	Mid-flood		16.30	26.90	8.29		99.50	2.35		2.40	
				M1	R1	Mid-flood	6.30	16.10	27.00	8.34		100.10	2.67		2.80	
				M2	R2	Mid-flood		16.20	27.10	8.37		100.40	2.62		3.00	
				B1	R1	Mid-flood	11.60	16.20	27.20	8.63		103.60	3.11		4.50	
				B2	R2	Mid-flood		16.20	27.10	8.56		102.70	3.14		4.20	
	WM6	Cloudy	18:13	S1	R1	Mid-flood	1.00	16.30	26.80	8.49	8.35	101.90	2.55	2.97	3.00	3.67
				S2	R2	Mid-flood		16.30	26.90	8.42		101.90	2.59		3.20	
				M1	R1	Mid-flood	6.30	16.10	27.40	8.26		99.10	2.94		3.00	
				M2	R2	Mid-flood		16.10	27.30	8.23		98.80	2.96		3.40	
				B1	R1	Mid-flood	11.60	16.30	27.00	8.34		100.10	3.37		4.40	
				B2	R2	Mid-flood		16.20	27.10	8.35		100.20	3.42		4.80	
	C1	Cloudy	10:15	S1	R1	Mid-ebb	1.00	16.30	27.00	8.02	8.34	95.40	2.51	2.75	3.00	2.97
				S2	R2	Mid-ebb		16.20	26.90	8.05		95.80	2.43		2.80	
				M1	R1	Mid-ebb	5.45	16.10	27.10	8.66		103.10	2.74		3.20	
				M2	R2	Mid-ebb		16.00	27.20	8.61		102.50	2.79		3.00	
				B1	R1	Mid-ebb	9.90	16.10	27.20	8.44		100.40	2.98		2.80	
				B2	R2	Mid-ebb		16.10	27.10	8.48		100.90	3.05		3.00	
	C2	Cloudy	10:38	S1	R1	Mid-ebb	1.00	16.20	26.90	7.89	8.05	94.70	2.29	2.68	2.40	3.43
				S2	R2	Mid-ebb		16.20	26.90	7.96		95.50	2.20		2.20	
				M1	R1	Mid-ebb	10.55	16.30	27.10	8.14		97.70	2.47		2.80	
				M2	R2	Mid-ebb		16.10	27.10	8.20		98.40	2.54		3.00	
				B1	R1	Mid-ebb	20.10	16.10	27.10	7.92		95.00	3.31		5.20	
				B2	R2	Mid-ebb		16.10	27.20	7.95		95.40	3.25		5.00	
	C3	Cloudy	13:35	S1	R1	Mid-ebb	1.00	16.30	26.90	8.40	8.48	100.80	2.68	3.29	2.40	3.60
				S2	R2	Mid-ebb		16.20	26.80	8.37		100.40	2.73		2.40	
				M1	R1	Mid-ebb	6.35	16.20	27.10	8.55		102.60	3.41		4.20	
				M2	R2	Mid-ebb		16.20	27.10	8.58		103.00	3.34		4.00	
				B1	R1	Mid-ebb	11.70	16.00	27.10	8.51		102.10	3.75		4.40	
				B2	R2	Mid-ebb		16.10	27.10	8.45		101.40	3.80		4.20	
	C4	Cloudy	13:05	S1	R1	Mid-ebb	1.00	16.20	26.80	8.64	8.70	102.80	2.40	3.01	2.40	4.02
				S2	R2	Mid-ebb		16.20	26.90	8.67		103.20	2.48		2.20	
				M1	R1	Mid-ebb	6.45	16.10	27.10	8.77		104.40	2.98		4.00	
				M2	R2	Mid-ebb		16.10	27.20	8.72		103.80	2.93		4.20	
				B1	R1	Mid-ebb	11.90	16.00	27.20	8.61		102.50	3.61		5.80	
				B2	R2	Mid-ebb		16.00	27.20	8.65		102.90	3.67		5.50	
	WM1	Cloudy	9:45	S1	R1	Mid-ebb	1.00	16.20	26.80	8.38	8.39	100.40	2.01	2.71	3.00	3.20
				S2	R2	Mid-ebb		16.20	26.90	8.33		100.10	2.08		3.20	
				M1	R1	Mid-ebb	9.90	16.10	27.20	8.39		100.50	2.32		2.40	
				M2	R2	Mid-ebb		16.10	27.20	8.45		101.20	2.37		2.80	
				B1	R1	Mid-ebb	18.80	16.10	27.20	8.42		100.90	3.71		3.80	
				B2	R2	Mid-ebb		16.10	27.20	8.40		100.60	3.79		4.00	
	WM2	Cloudy	11:10	S1	R1	Mid-ebb	1.00	16.30	26.80	8.38	8.47	100.60	2.44	2.70	3.60	3.67
				S2	R2	Mid-ebb		16.30	26.80	8.31		99.70	2.48		4.00	
				M1	R1	Mid-ebb	4.60	16.00	27.10	8.57		102.80	2.62		3.00	
				M2	R2	Mid-ebb		16.00	27.10	8.61		103.30	2.70		3.20	
				B1	R1	Mid-ebb	8.20	16.10	27.10	8.52		102.20	2.94		4.20	
				B2	R2	Mid-ebb		16.00	27.20	8.57		102.80	3.01		4.00	
	WM3	Cloudy	11:26	S1	R1	Mid-ebb	1.00	16.20	26.90	8.07	8.23	96.00	2.76	2.53	2.80	3.03
				S2	R2	Mid-ebb		16.30	26.80	8.11		96.50	2.81		2.60	
				M1	R1	Mid-ebb	5.25	16.00	27.10	8.39		99.80	2.59		2.60	
				M2	R2	Mid-ebb		16.00	27.20	8.33		99.10	2.54		2.80	
B1				R1	Mid-ebb	9.50	16.00	27.10	8.41	100.10		2.27	3.60			
B2				R2	Mid-ebb		16.10	27.10	8.46	100.70		2.20	3.80			
WM4	Cloudy	11:47	S1	R1	Mid-ebb	1.00	16.30	26.90	8.70	8.70	103.50	2.48	3.14	2.80	3.40	
			S2	R2	Mid-ebb		16.40	26.90	8.73		103.90	2.57		2.60		
			M1	R1	Mid-ebb	6.55	16.00	27.20	8.65		102.90	3.21		3.40		
			M2	R2	Mid-ebb		16.00	27.20	8.71		103.60	3.26		3.40		
			B1	R1	Mid-ebb	12.10	16.00	27.20	8.46		100.70	3.63		4.00		
			B2	R2	Mid-ebb		16.00	27.								

Monitoring Date	Station	Weather Condition	Sampling Time	Depth + Replicate No.	Replicate	Tidal Level	Depth (m)	Water Temperature (°C)	Salinity (ppt)	D.O. (mg/L)	Depth-averaged D.O. (mg/L)	D.O. Saturation (%)	Turbidity (NTU)	Turbidity (Depth-averaged) (NTU)	SS (mg/L)	SS (Depth-averaged) (mg/L)
10/03/2012	C1	Cloudy	17:25	S1	R1	Mid-flood	1.00	16.20	27.80	8.13	8.24	96.80	3.73	3.81	4.50	4.75
				S2	R2	Mid-flood		16.20	27.80	8.17		97.20	3.69		4.60	
				M1	R1	Mid-flood	5.70	16.20	27.70	8.33		99.10	3.87		4.80	
				M2	R2	Mid-flood		16.10	27.80	8.32		99.00	4.04		5.00	
				B1	R1	Mid-flood	10.40	16.20	27.90	8.25		98.20	3.75		4.80	
				B2	R2	Mid-flood		16.20	27.80	8.22		97.80	3.79		4.80	
	C2	Cloudy	17:47	S1	R1	Mid-flood	1.00	16.10	27.70	8.13	8.21	96.70	3.67	3.86	4.60	
				S2	R2	Mid-flood		16.20	27.70	8.18		97.40	3.62		4.60	
				M1	R1	Mid-flood	10.90	16.20	27.70	8.26		98.30	4.13		5.20	
				M2	R2	Mid-flood		16.30	27.80	8.28		98.50	4.10		5.00	
				B1	R1	Mid-flood	20.80	16.20	27.80	8.37		99.60	3.81		4.80	
				B2	R2	Mid-flood		16.20	27.70	8.31		99.00	3.82		4.80	
	C3	Cloudy	20:49	S1	R1	Mid-flood	1.00	16.20	27.70	8.43	8.44	100.30	2.58	3.21	4.80	
				S2	R2	Mid-flood		16.20	27.80	8.40		99.90	2.66		4.00	
				M1	R1	Mid-flood	6.45	16.20	27.80	8.49		101.10	2.99		4.00	
				M2	R2	Mid-flood		16.10	27.80	8.45		100.60	3.06		4.20	
				B1	R1	Mid-flood	11.90	16.20	27.90	8.35		99.40	4.01		5.20	
				B2	R2	Mid-flood		16.20	27.80	8.38		99.70	3.94		5.00	
	C4	Cloudy	20:17	S1	R1	Mid-flood	1.00	16.20	27.70	8.40	8.51	100.00	2.50	3.13	3.80	
				S2	R2	Mid-flood		16.30	27.70	8.42		100.20	2.56		3.60	
				M1	R1	Mid-flood	6.65	16.20	27.80	8.61		102.60	2.82		4.00	
				M2	R2	Mid-flood		16.20	27.70	8.59		102.20	2.75		4.00	
				B1	R1	Mid-flood	12.30	16.20	27.80	8.68		103.30	4.11		4.80	
				B2	R2	Mid-flood		16.10	27.80	8.70		103.50	4.04		5.00	
	WM1	Cloudy	16:45	S1	R1	Mid-flood	1.00	16.20	27.70	7.86	7.99	93.50	2.65	2.93	3.80	
				S2	R2	Mid-flood		16.30	27.80	7.91		94.10	2.69		3.60	
				M1	R1	Mid-flood	10.20	16.20	27.80	8.12		96.60	2.93		3.20	
				M2	R2	Mid-flood		16.10	27.90	8.06		96.10	3.03		4.00	
				B1	R1	Mid-flood	19.40	16.20	27.80	8.22		97.80	3.18		4.20	
				B2	R2	Mid-flood		16.20	27.80	8.26		98.40	4.01		4.20	
	WM2	Cloudy	18:20	S1	R1	Mid-flood	1.00	16.10	27.80	7.84	8.07	93.30	2.58	3.04	3.60	
				S2	R2	Mid-flood		16.20	27.90	7.81		92.90	2.64		3.50	
				M1	R1	Mid-flood	4.70	16.20	27.70	8.28		98.50	3.18		4.00	
				M2	R2	Mid-flood		16.20	27.80	8.33		99.10	3.12		4.60	
				B1	R1	Mid-flood	8.40	16.30	27.90	8.29		98.70	3.36		4.40	
				B2	R2	Mid-flood		16.30	27.80	8.24		98.10	3.38		4.40	
	WM3	Cloudy	18:34	S1	R1	Mid-flood	1.00	16.20	27.70	7.89	8.11	93.40	2.70	2.53	4.00	
				S2	R2	Mid-flood		16.10	27.70	7.90		94.00	2.66		3.80	
				M1	R1	Mid-flood	5.55	16.20	27.90	8.31		99.00	2.49		3.60	
				M2	R2	Mid-flood		16.20	27.80	8.33		99.10	2.53		3.80	
				B1	R1	Mid-flood	10.10	16.30	27.90	8.43		100.30	2.42		3.60	
				B2	R2	Mid-flood		16.30	27.90	8.40		100.00	2.38		3.40	
	WM4	Cloudy	18:58	S1	R1	Mid-flood	1.00	16.20	27.80	8.40	8.55	100.00	2.52	3.18	3.60	
				S2	R2	Mid-flood		16.20	27.80	8.44		100.40	2.44		3.80	
				M1	R1	Mid-flood	6.65	16.20	27.70	8.65		102.90	2.92		3.60	
				M2	R2	Mid-flood		16.30	27.80	8.69		103.40	2.98		4.00	
				B1	R1	Mid-flood	12.30	16.20	27.70	8.72		103.90	4.08		5.20	
				B2	R2	Mid-flood		16.20	27.70	8.70		103.50	4.12		5.40	
	WM5	Cloudy	19:25	S1	R1	Mid-flood	1.00	16.20	27.70	8.28	8.39	98.50	2.25	2.49	3.40	
				S2	R2	Mid-flood		16.30	27.80	8.32		99.00	2.30		3.60	
				M1	R1	Mid-flood	6.25	16.20	27.80	8.49		101.00	2.47		3.60	
				M2	R2	Mid-flood		16.20	27.90	8.46		100.70	2.54		3.50	
				B1	R1	Mid-flood	11.50	16.10	27.90	8.51		101.30	2.73		4.00	
				B2	R2	Mid-flood		16.20	27.90	8.53		101.60	2.67		4.00	
	WM6	Cloudy	19:50	S1	R1	Mid-flood	1.00	16.30	27.80	8.58	8.49	102.10	2.68	3.16	3.80	
				S2	R2	Mid-flood		16.20	27.70	8.60		102.30	2.68		4.20	
				M1	R1	Mid-flood	6.20	16.20	27.90	8.40		99.90	3.01		4.00	
				M2	R2	Mid-flood		16.20	27.80	8.38		99.70	2.94		4.00	
				B1	R1	Mid-flood	11.40	16.20	27.90	8.35		99.40	3.88		4.80	
				B2	R2	Mid-flood		16.10	27.90	8.39		99.80	3.82		5.00	
	C1	Cloudy	11:41	S1	R1	Mid-ebb	1.00	16.30	27.70	8.04	8.10	95.70	3.93	4.04	5.00	
				S2	R2	Mid-ebb		16.30	27.80	8.07		96.00	3.86		4.80	
				M1	R1	Mid-ebb	5.50	16.10	27.80	8.17		97.20	4.18		5.40	
				M2	R2	Mid-ebb		16.20	27.70	8.11		96.50	4.24		5.20	
				B1	R1	Mid-ebb	10.00	16.10	27.90	8.05		95.80	4.05		5.00	
				B2	R2	Mid-ebb		16.20	27.90	8.09		96.30	3.96		5.00	
	C2	Cloudy	12:01	S1	R1	Mid-ebb	1.00	16.30	27.70	7.99	8.04	95.10	3.81	4.01	5.00	
				S2	R2	Mid-ebb		16.20	27.70	7.97		94.80	3.88		5.00	
				M1	R1	Mid-ebb	10.50	16.20	27.70	8.08		96.20	4.29		5.40	
				M2	R2	Mid-ebb		16.20	27.80	8.13		96.70	4.20		5.20	
				B1	R1	Mid-ebb	20.00	16.20	27.80	8.18		97.30	3.93		4.80	
				B2	R2	Mid-ebb		16.10	27.90	8.15		97.00	3.97		5.00	
	C3	Cloudy	14:55	S1	R1	Mid-ebb	1.00	16.20	27.80	8.20	8.21	97.60	2.78	3.42	3.80	
				S2	R2	Mid-ebb		16.30	27.70	8.13		96.70	2.87		4.00	
				M1	R1	Mid-ebb	6.25	16.10	27.80	8.24		98.10	3.28		4.20	
				M2	R2	Mid-ebb		16.20	27.90	8.27		98.40	3.20		4.20	
				B1	R1	Mid-ebb	11.50	16.20	27.80	8.18		97.30	4.22		5.20	
				B2	R2	Mid-ebb		16.20	27.90	8.22		97.80	4.14		5.00	
	C4	Cloudy	14:25	S1	R1	Mid-ebb	1.00	16.20	27.70	8.27	8.37	98.40	2.74	3.36	3.80	
				S2	R2	Mid-ebb		16.30	27.70	8.31		98.90	2.66		3.80	
				M1	R1	Mid-ebb	6.40	16.10	27.90	8.46		100.70	3.03		4.00	
				M2	R2	Mid-ebb		16.10	27.80	8.43		100.30	3.11		4.00	
				B1	R1	Mid-ebb	11.80	16.10	27.90	8.55		101.60	4.33		5.40	
				B2	R2	Mid-ebb		16.10	27.90	8.50		101.20	4.26		5.00	
	WM1	Cloudy	11:45	S1	R1	Mid-ebb	1.00	16.30	27.80	7.74	7.90	92.10	2.85	3.07	3.60	
				S2	R2	Mid-ebb		16.20	27.70	7.80		92.80	2.89		3.60	
				M1	R1	Mid-ebb	9.95	16.10	27.90	8.06		95.90	3.06		4.00	
				M2	R2	Mid-ebb		16.10	27.90	8.01		95.30	3.13		4.20	
				B1	R1	Mid-ebb	18.90	16.10	27.80	8.13		96.70	3.29		4.40	
				B2	R2	Mid-ebb		16.10	27.90	8.15		97.00	3.21		4.20	
	WM2	Cloudy	12:31	S1	R1	Mid-ebb	1.00	16.20	27.80	7.73	7.99	92.00	2.78	3.30	3.80	
				S2	R2	Mid-ebb		16.30	27.80	7.71		91.70	2.72		4.00	
				M1	R1	Mid-ebb	4.45	16.20	27.80	8.22		97.80	3.43		4.50	
				M2	R2	Mid-ebb		16.10	27.70	8.29		98.70	3.48		4.80	
				B1	R1	Mid-ebb	7.90	16.20	27.80	8.16		97.10	3.65		4.80	
				B2	R2	Mid-ebb		16.20	27.80	8.21		97.70	3.71		5.00	
	WM3	Cloudy	12:45	S1	R1	Mid-ebb	1.00	16.20	27.70	7.75	7.95	92.20	2.95	2.73	3.80	
				S2	R2	Mid-ebb		16.20	27.80	7.68		91.40	2.91		4.00	
				M1	R1	Mid-ebb	5.30	16.10	27.70	8.20		97.60	2.64		4.00	
				M2	R2	Mid-ebb		16.10	27.70	8.17		97.20	2.60		3.80	
B1				R1	Mid-ebb	9.60	16.20	27.90	8.26	98.30		2.61	3.80			
B2				R2	Mid-ebb		16.10	27.90	8.31	98.90		2.67	4.00			
WM4	Cloudy	13:07	S1	R1	Mid-ebb	1.00	16.30	27.80	8.30	8.43	98.80	2.70	3.39	3.80		
			S2	R2	Mid-ebb		16.20	27.70	8.34		99.20	2.79		3.80		
			M1	R1	Mid-ebb	6.45	16.10	27.90	8.56		101.90	3.11		4.20		
			M2	R2	Mid-ebb		16.10	27.90	8.51		101.30	3.16		4.00		
			B1	R1	Mid-ebb	11.90	16.10	27.90	8.53		101.50	4.31		5.40		
			B2	R2	Mid-ebb		16.20	27.90	8.46		100.70	4.24		5.20		
WM5	Cloudy	13:31	S1	R1	Mid-ebb	1.00	16.20	27.80	8.17	8.25	97.20	2.46	2.72	3.80		
			S2	R2	Mid-ebb		16.20									

Monitoring Date	Station	Weather Condition	Sampling Time	Depth + Replicate No.	Replicate	Tidal Level	Depth (m)	Water Temperature (°C)	Salinity (ppt)	D.O. (mg/L)	Depth-averaged D.O. (mg/L)	D.O. Saturation (%)	Turbidity (NTU)	Turbidity (Depth-averaged) (NTU)	SS (mg/L)	SS (Depth-averaged) (mg/L)					
13/03/2012	C1	Cloudy	8:26	S1	R1	Mid-flood	1.00	16.10	27.40	8.20	8.17	97.80	2.54	2.79	4.00	4.27					
				S2	R2	Mid-flood		16.20	27.30	8.15											
				M1	R1	Mid-flood	5.80	16.00	27.30	8.19							8.29	97.70	2.90		
				M2	R2	Mid-flood		16.10	27.40	8.14											
				B1	R1	Mid-flood	10.60	16.10	27.40	8.27										98.80	3.01
				B2	R2	Mid-flood		16.00	27.50	8.30											
	C2	R1	Mid-flood	1.00	16.20	27.40	8.30	8.25	99.10	2.77											
	C2	R2	Mid-flood		16.10	27.30	8.24														
	M1	R1	Mid-flood	10.70	16.00	27.30	8.26				98.60	2.52									
	M2	R2	Mid-flood		16.10	27.20	8.21														
	B1	R1	Mid-flood	20.40	16.00	27.50	8.19						98.00	2.57							
	B2	R2	Mid-flood		16.00	27.50	8.23														
	C3	R1	Mid-flood	1.00	16.30	27.50	8.49	8.43	101.40	2.90											
	C3	R2	Mid-flood		16.30	27.40	8.45														
	M1	R1	Mid-flood	6.50	16.20	27.50	8.40				100.30	3.12									
	M2	R2	Mid-flood		16.20	27.50	8.37														
	B1	R1	Mid-flood	12.00	16.10	27.60	8.42						100.60	3.04							
	B2	R2	Mid-flood		16.00	27.60	8.45														
	C4	R1	Mid-flood	1.00	16.20	27.50	8.30	8.26	99.10	2.81											
	C4	R2	Mid-flood		16.30	27.50	8.33														
	M1	R1	Mid-flood	6.70	16.20	27.60	8.18				97.60	2.92									
	M2	R2	Mid-flood		16.20	27.50	8.24														
	B1	R1	Mid-flood	12.40	16.10	27.50	8.28						98.90	3.17							
	B2	R2	Mid-flood		16.00	27.40	8.31														
	WM1	R1	Mid-flood	1.00	16.00	27.30	8.14	8.10	97.20	2.82											
	WM1	R2	Mid-flood		16.00	27.30	8.12														
	M1	R1	Mid-flood	10.20	16.00	27.30	8.08				96.60	2.79									
	M2	R2	Mid-flood		16.00	27.30	8.05														
	B1	R1	Mid-flood	19.40	16.00	27.30	8.07						96.40	2.94							
	B2	R2	Mid-flood		16.00	27.00	8.03														
	WM2	R1	Mid-flood	1.00	16.20	27.50	8.27	8.23	98.70	2.87											
	WM2	R2	Mid-flood		16.20	27.40	8.25														
	M1	R1	Mid-flood	4.90	16.10	27.40	8.18				97.60	2.94									
	M2	R2	Mid-flood		16.00	27.40	8.23														
	B1	R1	Mid-flood	8.80	16.10	27.40	8.22						98.20	3.02							
	B2	R2	Mid-flood		16.00	27.30	8.27														
	WM3	R1	Mid-flood	1.00	16.20	27.50	8.31	8.36	99.30	2.75											
	WM3	R2	Mid-flood		16.10	27.50	8.34														
	M1	R1	Mid-flood	5.70	16.00	27.50	8.40				100.30	3.06									
	M2	R2	Mid-flood		16.00	27.40	8.37														
	B1	R1	Mid-flood	10.40	16.00	27.40	8.35						99.70	3.05							
	B2	R2	Mid-flood		16.10	27.50	8.31														
	WM4	R1	Mid-flood	1.00	16.30	27.40	8.40	8.34	100.30	2.52											
	WM4	R2	Mid-flood		16.20	27.50	8.37														
	M1	R1	Mid-flood	6.90	16.10	27.60	8.32				99.40	2.86									
	M2	R2	Mid-flood		16.00	27.60	8.28														
	B1	R1	Mid-flood	12.80	16.10	27.50	8.37						100.00	2.97							
	B2	R2	Mid-flood		16.10	27.40	8.34														
	WM5	R1	Mid-flood	1.00	16.30	27.50	8.30	8.24	99.10	2.44											
	WM5	R2	Mid-flood		16.30	27.50	8.27														
	M1	R1	Mid-flood	6.30	16.30	27.50	8.18				97.60	2.75									
	M2	R2	Mid-flood		16.20	27.60	8.22														
	B1	R1	Mid-flood	11.60	16.20	27.50	8.27						98.70	3.30							
	B2	R2	Mid-flood		16.10	27.50	8.24														
	WM6	R1	Mid-flood	1.00	16.30	27.40	8.22	8.24	98.10	2.67											
	WM6	R2	Mid-flood		16.20	27.50	8.28														
	M1	R1	Mid-flood	6.20	16.20	27.50	8.19				97.70	2.94									
	M2	R2	Mid-flood		16.10	27.50	8.25														
	B1	R1	Mid-flood	11.40	16.10	27.60	8.30						99.10	3.19							
	B2	R2	Mid-flood		16.10	27.50	8.27														
	C1	R1	Mid-ebb	1.00	16.10	27.30	8.08	8.06	96.20	2.63											
	C1	R2	Mid-ebb		16.00	27.40	8.10														
	M1	R1	Mid-ebb	5.20	16.00	27.40	8.01				95.30	3.01									
	M2	R2	Mid-ebb		16.00	27.30	8.04														
	B1	R1	Mid-ebb	9.40	15.90	27.40	8.10						96.40	3.02							
	B2	R2	Mid-ebb		16.00	27.40	8.12														
	C2	R1	Mid-ebb	1.00	16.10	27.30	8.18	8.18	97.30	2.87											
	C2	R2	Mid-ebb		16.10	27.40	8.20														
	M1	R1	Mid-ebb	10.15	16.10	27.40	8.17				97.20	2.85									
	M2	R2	Mid-ebb		16.00	27.30	8.15														
	B1	R1	Mid-ebb	19.30	16.00	27.40	8.05						95.80	2.88							
	B2	R2	Mid-ebb		15.90	27.50	8.03														
	C3	R1	Mid-ebb	1.00	16.10	27.50	8.36	8.31	99.90	2.96											
	C3	R2	Mid-ebb		16.20	27.40	8.32														
	M1	R1	Mid-ebb	6.10	16.00	27.40	8.28				98.90	3.19									
	M2	R2	Mid-ebb		16.10	27.50	8.29														
	B1	R1	Mid-ebb	11.20	15.90	27.50	8.25						98.50	3.11							
	B2	R2	Mid-ebb		16.00	27.60	8.26														
	C4	R1	Mid-ebb	1.00	16.20	27.50	8.21	8.17	98.10	2.89											
	C4	R2	Mid-ebb		16.10	27.40	8.19														
	M1	R1	Mid-ebb	6.30	16.10	27.60	8.16				97.90	3.02									
	M2	R2	Mid-ebb		16.00	27.50	8.13														
	B1	R1	Mid-ebb	11.60	15.90	27.50	8.20						98.00	3.19							
	B2	R2	Mid-ebb		15.90	27.50	8.18														
	WM1	R1	Mid-ebb	1.00	16.00	27.40	8.01	8.00	95.70	2.92											
	WM1	R2	Mid-ebb		16.00	27.30	8.03														
	M1	R1	Mid-ebb	9.80	16.00	27.30	7.96				94.80	2.88									
	M2	R2	Mid-ebb		16.00	27.30	7.99														
	B1	R1	Mid-ebb	18.60	15.90	27.30	7.95						95.10	2.86							
	B2	R2	Mid-ebb		15.90	27.30	7.99														
	WM2	R1	Mid-ebb	1.00	16.00	27.50	8.14	8.12	96.90	2.98											
	WM2	R2	Mid-ebb		16.10	27.50	8.12														
	M1	R1	Mid-ebb	4.40	16.00	27.40	8.09				96.20	3.03									
	M2	R2	Mid-ebb		16.00	27.50	8.11														
	B1	R1	Mid-ebb	7.80	16.00	27.40	8.12						96.60	3.26							
	B2	R2	Mid-ebb		16.00	27.40	8.14														
	WM3	R1	Mid-ebb	1.00	16.10	27.50	8.22	8.24	97.80	2.85											
	WM3	R2	Mid-ebb		16.10	27.40	8.19														
	M1	R1	Mid-ebb	5.30	16.00	27.40	8.29				97.50	2.87									
	M2	R2	Mid-ebb		16.10	27.50	8.26														
B1	R1	Mid-ebb	9.60	15.90	27.50	8.29	98.40						3.28								
B2	R2	Mid-ebb		15.90	27.50	8.26															
WM4	R1	Mid-ebb	1.00	16.10	27.60	8.22		8.19	2.70	4.00											
WM4	R2	Mid-ebb		16.10	27.50	8.26															
M1	R1	Mid-ebb	6.25	16.00	27.60	8.15					2.96	4.40									
M2	R2	Mid-ebb		16.10	27.50	8.13															
B1	R1	Mid-ebb	11.50	16.00	27.50	8.19	3.08						4.60								
B2	R2	Mid-ebb		15.90	27.30	8.16															
WM5	R1	Mid-ebb	1.00	16.00	27.60	8.18		8.11	99.10	2.68											
WM5	R2	Mid-ebb		16.00	27.50	8.15															
M1	R1	Mid-ebb	5.80	16.00	27.60	8.07					96.80	2.86									
M2	R2	Mid-ebb		16.10	27.50	8.04															
B1	R1	Mid-ebb	10.60	15.90	27.60	8.16	96.40						2.82								
B2	R2	Mid-ebb		16.00	27.50	8.13															
WM6	R1	Mid-ebb	1.00	16.00	27.60	8.11		8.09	97.30	3.31											
WM6	R2	Mid-ebb		16.00	27.50	8.14															
M1	R1	Mid-ebb	5.70	16.00	27.50	8.08					97.60	2.82									
M2	R2	Mid-ebb		16.00	27.50	8.03															
B1	R1	Mid-ebb	10.40	15.90	27.60	8.22	96.30						3.04								
B2	R2	Mid-ebb		15.90	27.50	8.18															

Monitoring Date	Station	Weather Condition	Sampling Time	Depth + Replicate No.	Replicate	Tidal Level	Depth (m)	Water Temperature (°C)	Salinity (ppt)	D.O. (mg/L)	Depth-averaged D.O. (mg/L)	D.O. Saturation (%)	Turbidity (NTU)	Turbidity (Depth-averaged) (NTU)	SS (mg/L)	SS (Depth-averaged) (mg/L)				
15/03/2012	C1	Cloudy	9:56	S1	R1	Mid-flood	1.00	16.00	27.30	8.43	8.33	100.80	1.38	1.67	2.00	2.37				
				S2	R2	Mid-flood		16.00	27.20	8.40		100.40	1.25							
	M1			R1	Mid-flood	10.30	16.00	27.30	8.28	99.20	1.16	8.19	98.30				1.11			
	M2			R2	Mid-flood		16.00	27.30	8.21	98.30	1.11									
	B1			R1	Mid-flood	19.60	16.00	27.30	8.22	98.30	2.52	8.14	97.60				2.59			
	B2			R2	Mid-flood		16.00	27.30	8.16	97.60	2.59									
	C2			Cloudy	10:20	S1	R1	Mid-flood	1.00	16.10	27.20	7.70	7.90				92.30	1.68	1.48	2.60
						S2	R2	Mid-flood		16.10	27.20	7.61					91.20	1.57		
	M1	R1	Mid-flood			7.50	16.00	27.30	8.16	97.60	1.24	8.14	97.30	1.13						
	M2	R2	Mid-flood				16.00	27.30	8.14	97.60	1.65									
	B1	R1	Mid-flood			14.00	16.00	27.40	8.16	97.60	1.65	8.11	97.00	1.60						
	B2	R2	Mid-flood				16.00	27.40	8.11	97.00	1.60									
	C3	Cloudy	13:05			S1	R1	Mid-flood	1.00	16.10	27.40	8.17	8.25	97.70	2.01	2.40	3.70			
						S2	R2	Mid-flood		16.00	27.30	8.21		98.10	2.07					
	M1			R1	Mid-flood	6.70	16.00	27.40	8.28	99.10	2.54	8.36	99.50	2.50						
	M2			R2	Mid-flood		16.00	27.40	8.32	100.50	2.69									
	B1			R1	Mid-flood	12.40	16.00	27.40	8.37	99.90	2.61	8.18	99.90	2.61						
	B2			R2	Mid-flood		16.00	27.40	8.34	99.90	2.61									
	C4			Cloudy	12:39	S1	R1	Mid-flood	1.00	16.10	27.40	8.11	8.16	96.70	1.90			1.97	3.18	
						S2	R2	Mid-flood		16.10	27.40	8.14		97.10	1.97					
	M1	R1	Mid-flood			6.80	16.00	27.40	8.22	98.20	1.84	8.18	97.70	1.79						
	M2	R2	Mid-flood				16.00	27.40	8.18	97.70	1.79									
	B1	R1	Mid-flood			12.60	16.00	27.40	8.16	97.50	2.11	8.36	97.90	2.19						
	B2	R2	Mid-flood				16.00	27.30	8.20	97.90	2.19									
	WM1	Cloudy	9:30			S1	R1	Mid-flood	1.00	16.00	27.00	8.27	8.21	98.70	1.58	1.78	2.83			
						S2	R2	Mid-flood		16.00	27.20	8.26		98.50	1.50					
	M1			R1	Mid-flood	10.75	16.00	27.30	8.13	97.20	1.59	8.20	97.40	1.68						
	M2			R2	Mid-flood		16.00	27.30	8.17	96.30	2.11									
	B1			R1	Mid-flood	20.50	16.00	27.40	8.22	96.00	2.20	8.39	96.00	2.20						
	B2			R2	Mid-flood		16.00	27.40	8.18	96.00	2.20									
	WM2			Cloudy	10:42	S1	R1	Mid-flood	1.00	16.00	27.40	8.49	8.39	101.40	2.08			2.07	3.23	
						S2	R2	Mid-flood		16.00	27.40	8.40		100.40	2.05					
	M1	R1	Mid-flood			5.40	16.00	27.40	8.35	99.90	1.98	8.36	99.30	1.91						
	M2	R2	Mid-flood				16.00	27.40	8.30	99.30	1.91									
	B1	R1	Mid-flood			9.80	16.00	27.40	8.39	100.30	2.21	8.11	99.60	2.17						
	B2	R2	Mid-flood				16.00	27.40	8.33	99.60	2.17									
	WM3	Cloudy	10:58			S1	R1	Mid-flood	1.00	16.00	27.30	8.08	8.11	96.60	2.78	2.48	3.77			
						S2	R2	Mid-flood		16.00	27.30	8.01		95.80	2.64					
	M1			R1	Mid-flood	3.85	16.00	27.40	8.19	98.00	2.34	8.17	97.50	2.27						
	M2			R2	Mid-flood		16.00	27.40	8.16	97.40	2.46									
	B1			R1	Mid-flood	6.70	16.00	27.40	8.14	98.30	2.40	8.48	102.10	1.79						
	B2			R2	Mid-flood		16.00	27.40	8.20	101.60	1.85									
	WM4			Cloudy	11:22	S1	R1	Mid-flood	1.00	16.00	27.40	8.53	8.52	101.00	2.37			2.32	3.63	
						S2	R2	Mid-flood		16.00	27.40	8.49		100.70	2.44					
	M1	R1	Mid-flood			6.85	15.90	27.40	8.46	101.70	2.78	8.52	101.20	2.70						
	M2	R2	Mid-flood				15.90	27.40	8.44	101.20	2.70									
	B1	R1	Mid-flood			12.70	15.90	27.40	8.54	101.70	2.78	8.36	101.20	2.70						
	B2	R2	Mid-flood				15.90	27.40	8.50	101.20	2.70									
	WM5	Cloudy	11:46			S1	R1	Mid-flood	1.00	16.00	27.40	8.42	8.36	100.80	2.52	2.33	3.53			
						S2	R2	Mid-flood		16.00	27.40	8.39		100.50	2.47					
	M1			R1	Mid-flood	6.30	16.00	27.40	8.30	99.20	2.12	8.38	99.70	2.20						
	M2			R2	Mid-flood		15.90	27.40	8.34	99.70	2.20									
	B1			R1	Mid-flood	11.60	15.90	27.40	8.37	100.10	2.38	8.27	100.40	2.31						
	B2			R2	Mid-flood		15.90	27.40	8.39	100.40	2.31									
	WM6			Cloudy	12:11	S1	R1	Mid-flood	1.00	16.00	27.40	8.27	8.27	96.40	2.20			2.28	3.37	
						S2	R2	Mid-flood		16.00	27.40	8.24		97.30	2.16					
	M1	R1	Mid-flood			6.20	16.00	27.40	8.30	98.80	2.01	8.26	98.40	2.07						
	M2	R2	Mid-flood				16.00	27.40	8.27	98.00	2.60									
	B1	R1	Mid-flood			11.40	16.00	27.40	8.24	98.00	2.60	8.12	98.50	2.65						
	B2	R2	Mid-flood				15.90	27.40	8.28	97.10	1.50									
	C1	Cloudy	15:27			S1	R1	Mid-ebb	1.00	16.00	27.30	8.16	8.12	97.10	1.50	1.91	3.08			
						S2	R2	Mid-ebb		16.00	27.30	8.21		97.70	1.58					
	M1			R1	Mid-ebb	10.10	16.00	27.30	8.04	95.70	1.52	7.95	95.90	1.46						
	M2			R2	Mid-ebb		16.10	27.20	8.06	94.80	2.66									
	B1			R1	Mid-ebb	19.20	16.10	27.30	7.97	94.20	2.73	7.68	94.20	2.73						
	B2			R2	Mid-ebb		16.00	27.30	7.92	87.20	1.93									
	C2			Cloudy	15:49	S1	R1	Mid-ebb	1.00	16.00	27.30	7.33	7.68	87.60	1.85			1.71	2.70	
						S2	R2	Mid-ebb		16.00	27.30	7.36		85.40	1.37					
	M1	R1	Mid-ebb			7.30	16.00	27.30	8.02	95.10	1.42	7.88	93.50	1.87						
	M2	R2	Mid-ebb				16.00	27.30	7.99	94.00	1.81									
	B1	R1	Mid-ebb			13.60	16.00	27.30	7.86	93.50	1.87	8.07	94.00	1.81						
	B2	R2	Mid-ebb				16.10	27.30	7.90	94.00	1.81									
	C3	Cloudy	18:41			S1	R1	Mid-ebb	1.00	16.10	27.30	7.99	8.11	95.10	2.39	2.58	3.93			
						S2	R2	Mid-ebb		16.10	27.30	7.93		94.40	2.35					
	M1			R1	Mid-ebb	6.45	16.10	27.30	8.19	97.50	2.62	8.04	97.00	2.70						
	M2			R2	Mid-ebb		16.00	27.40	8.15	97.00	2.70									
	B1			R1	Mid-ebb	11.90	16.00	27.30	8.09	96.30	2.74	7.98	96.60	2.67						
	B2			R2	Mid-ebb		16.00	27.30	8.12	96.60	2.67									
	C4			Cloudy	18:10	S1	R1	Mid-ebb	1.00	16.00	27.40	7.88	8.04	93.80	2.30			2.30	3.35	
						S2	R2	Mid-ebb		16.10	27.30	7.91		94.10	2.23					
	M1	R1	Mid-ebb			6.65	16.10	27.40	8.04	95.70	2.18	8.04	96.40	2.27						
	M2	R2	Mid-ebb				16.00	27.40	8.10	96.00	2.45									
	B1	R1	Mid-ebb			12.30	16.00	27.40	8.07	96.00	2.45	8.29	95.30	2.36						
	B2	R2	Mid-ebb				16.10	27.30	8.01	95.30	2.36									
WM1	Cloudy	15:00	S1			R1	Mid-ebb	1.00	16.00	27.20	8.02	7.97	95.40	1.83	2.04	3.20				
			S2			R2	Mid-ebb		16.10	27.10	8.05		95.80	1.89						
M1			R1	Mid-ebb	10.45	16.00	27.30	7.87	93.70	1.77	8.1	94.40	1.85							
M2			R2	Mid-ebb		16.00	27.30	7.93	96.20	2.43										
B1			R1	Mid-ebb	19.90	16.00	27.20	8.08	96.60	2.48	8.17	97.30	2.25							
B2			R2	Mid-ebb		16.00	27.30	8.12	97.90	2.20										
WM2			Cloudy	16:18	S1	R1	Mid-ebb	1.00	16.10	27.30	8.18	8.06	97.00	2.18			2.31	3.02		
					S2	R2	Mid-ebb		16.10	27.40	8.23		96.50	2.27						
M1	R1	Mid-ebb			5.15	16.10	27.40	8.15	95.80	2.44	7.92	96.00	2.49							
M2	R2	Mid-ebb				16.00	27.40	8.11	93.90	2.94										
B1	R1	Mid-ebb			9.30	16.10	27.40	8.05	93.20	2.86	8.04	94.70	2.61							
B2	R2	Mid-ebb				16.10	27.40	8.07	95.30	2.66										
WM3	Cloudy	16:32			S1	R1	Mid-ebb	1.00	16.00	27.40	7.89	7.92	94.50	2.64	2.74	4.07				
					S2	R2	Mid-ebb		16.10	27.30	7.83		94.00	2.72						
M1			R1	Mid-ebb	3.65	16.00	27.40	7.96	94.70	2.61	8.1	94.00	2.72							
M2			R2	Mid-ebb		16.00	27.40	8.01	94.00	2.72										
B1			R1	Mid-ebb	6.30	16.00	27.40	7.94	94.50	2.64	8.20	97.80	1.96							
B2			R2	Mid-ebb		16.00	27.30	7.90	98.20	2.02										
WM4			Cloudy	16:55	S1	R1	Mid-ebb	1.00	16.10	27.40	8.22	8.29	97.80	1.96			2.52	3.97		
					S2	R2	Mid-ebb		16.10	27.40	8.25		98.20	2.02						
M1	R1	Mid-ebb			6.55	15.90	27.30	8.13	96.70	2.63	8.09	97.50	2.58							
M2	R2	Mid-ebb				16.00	27.40	8.19	97.50	2.58										
B1	R1	Mid-ebb			12.10	16.00	27.40													

Monitoring Date	Station	Weather Condition	Sampling Time	Depth + Replicate No.	Replicate	Tidal Level	Depth (m)	Water Temperature (°C)	Salinity (ppt)	D.O. (mg/L)	Depth-averaged D.O. (mg/L)	D.O. Saturation (%)	Turbidity (NTU)	Turbidity (Depth-averaged) (NTU)	SS (mg/L)	SS (Depth-averaged) (mg/L)
17/03/2012	C1	Cloudy	12:28	S1	R1	Mid-flood	1.00	16.60	27.30	8.12	8.21	97.40	2.65	2.94	3.00	3.57
	C1			S2	R2	Mid-flood		16.70	27.40	8.14		97.70	2.75			
	C1			M1	R1	Mid-flood	9.25	16.70	27.30	8.26		99.10	3.09			
	C1			M2	R2	Mid-flood		16.70	27.40	8.31		99.70	3.01			
	C1			B1	R1	Mid-flood	17.50	16.60	27.30	8.45		101.40	3.12			
	C1			B2	R2	Mid-flood		16.60	27.30	8.40		100.80	3.03			
	C2	Cloudy	12:50	S1	R1	Mid-flood	1.00	16.70	27.40	8.26	8.34	99.10	2.29	2.75	2.80	
	C2			S2	R2	Mid-flood		16.60	27.40	8.20		98.40	2.23			
	C2			M1	R1	Mid-flood	10.90	16.60	27.30	8.48		101.80	2.64			
	C2			M2	R2	Mid-flood		16.60	27.30	8.42		101.00	2.89			
	C2			B1	R1	Mid-flood	20.80	16.70	27.40	8.34		100.10	3.15			
	C2			B2	R2	Mid-flood		16.60	27.40	8.38		100.60	3.07			
	C3	Cloudy	15:39	S1	R1	Mid-flood	1.00	16.80	27.40	8.27	8.38	99.20	2.61	3.25	3.40	
	C3			S2	R2	Mid-flood		16.70	27.40	8.29		99.50	2.67			
	C3			M1	R1	Mid-flood	6.65	16.60	27.40	8.49		101.90	3.43			
	C3			M2	R2	Mid-flood		16.60	27.30	8.45		101.40	3.48			
	C3			B1	R1	Mid-flood	12.30	16.60	27.30	8.43		101.20	3.68			
	C3			B2	R2	Mid-flood		16.70	27.40	8.36		100.30	3.63			
	C4	Cloudy	15:09	S1	R1	Mid-flood	1.00	16.60	27.50	8.47	8.50	101.60	2.48	3.09	3.20	
	C4			S2	R2	Mid-flood		16.70	27.50	8.45		101.00	2.43			
	C4			M1	R1	Mid-flood	6.85	16.60	27.40	8.51		102.10	3.28			
	C4			M2	R2	Mid-flood		16.60	27.30	8.55		102.60	3.34			
	C4			B1	R1	Mid-flood	12.70	16.70	27.40	8.67		104.00	3.53			
	C4			B2	R2	Mid-flood		16.70	27.40	8.63		103.60	3.49			
	WM1	Cloudy	12:00	S1	R1	Mid-flood	1.00	16.60	27.40	8.23	8.29	98.80	2.41	2.92	3.20	
	WM1			S2	R2	Mid-flood		16.60	27.30	8.18		98.20	2.49			
	WM1			M1	R1	Mid-flood	10.35	16.70	27.40	8.39		100.70	3.17			
	WM1			M2	R2	Mid-flood		16.60	27.40	8.36		100.30	3.13			
	WM1			B1	R1	Mid-flood	19.70	16.60	27.40	8.33		100.00	3.10			
	WM1			B2	R2	Mid-flood		16.60	27.40	8.37		100.40	3.19			
	WM2	Cloudy	13:18	S1	R1	Mid-flood	1.00	16.60	27.30	8.07	8.14	96.80	2.51	3.01	3.20	
	WM2			S2	R2	Mid-flood		16.60	27.30	8.10		97.20	2.46			
	WM2			M1	R1	Mid-flood	5.05	16.60	27.30	8.20		98.40	3.11			
	WM2			M2	R2	Mid-flood		16.60	27.40	8.17		98.00	3.19			
	WM2			B1	R1	Mid-flood	9.10	16.60	27.30	8.24		98.90	3.36			
	WM2			B2	R2	Mid-flood		16.60	27.40	8.31		99.70	3.43			
	WM3	Cloudy	13:34	S1	R1	Mid-flood	1.00	16.60	27.40	8.16	8.34	97.90	2.70	2.93	3.20	
	WM3			S2	R2	Mid-flood		16.60	27.50	8.22		98.60	2.76			
	WM3			M1	R1	Mid-flood	5.70	16.70	27.40	8.45		101.40	3.09			
	WM3			M2	R2	Mid-flood		16.60	27.40	8.51		102.10	3.04			
	WM3			B1	R1	Mid-flood	10.40	16.70	27.50	8.42		101.00	2.97			
	WM3			B2	R2	Mid-flood		16.70	27.50	8.31		100.70	3.01			
	WM4	Cloudy	13:55	S1	R1	Mid-flood	1.00	16.70	27.40	8.39	8.41	100.60	2.52	3.16	3.00	
	WM4			S2	R2	Mid-flood		16.70	27.40	8.35		100.20	2.59			
	WM4			M1	R1	Mid-flood	6.75	16.60	27.40	8.44		101.30	3.30			
	WM4			M2	R2	Mid-flood		16.70	27.40	8.46		101.50	3.38			
	WM4			B1	R1	Mid-flood	12.50	16.60	27.40	8.53		102.40	3.62			
	WM4			B2	R2	Mid-flood		16.60	27.30	8.51		102.10	3.54			
	WM5	Cloudy	14:18	S1	R1	Mid-flood	1.00	16.60	27.30	8.11	8.22	97.30	2.33	2.61	3.00	
	WM5			S2	R2	Mid-flood		16.60	27.40	8.15		97.80	2.39			
	WM5			M1	R1	Mid-flood	6.35	16.70	27.30	8.32		99.80	2.61			
	WM5			M2	R2	Mid-flood		16.70	27.30	8.28		99.40	2.68			
	WM5			B1	R1	Mid-flood	11.70	16.60	27.30	8.34		100.10	2.86			
	WM5			B2	R2	Mid-flood		16.70	27.30	8.39		100.70	2.81			
	WM6	Cloudy	14:44	S1	R1	Mid-flood	1.00	16.60	27.30	8.30	8.44	99.60	2.55	3.21	3.00	
	WM6			S2	R2	Mid-flood		16.60	27.40	8.36		100.30	2.50			
	WM6			M1	R1	Mid-flood	6.45	16.60	27.30	8.53		102.40	3.51			
	WM6			M2	R2	Mid-flood		16.70	27.30	8.58		103.00	3.45			
	WM6			B1	R1	Mid-flood	11.90	16.70	27.40	8.49		101.90	3.57			
	WM6			B2	R2	Mid-flood		16.70	27.40	8.52		102.20	3.65			
	C1	Cloudy	18:00	S1	R1	Mid-ebb	1.00	16.70	27.40	7.72	7.79	92.60	3.17	3.39	4.00	
	C1			S2	R2	Mid-ebb		16.60	27.30	7.69		91.40	3.10			
	C1			M1	R1	Mid-ebb	9.05	16.60	27.30	7.89		94.70	3.46			
	C1			M2	R2	Mid-ebb		16.60	27.30	7.84		94.10	3.54			
	C1			B1	R1	Mid-ebb	17.10	16.60	27.40	8.06		96.70	3.50			
	C1			B2	R2	Mid-ebb		16.70	27.40	7.99		95.90	3.56			
	C2	Cloudy	18:23	S1	R1	Mid-ebb	1.00	16.60	27.30	7.92	8.00	95.00	2.58	3.10	3.20	
	C2			S2	R2	Mid-ebb		16.70	27.30	7.86		94.30	2.64			
	C2			M1	R1	Mid-ebb	10.60	16.60	27.40	8.08		97.00	3.19			
	C2			M2	R2	Mid-ebb		16.60	27.30	8.14		97.70	3.26			
	C2			B1	R1	Mid-ebb	20.20	16.70	27.40	8.04		96.50	3.42			
	C2			B2	R2	Mid-ebb		16.60	27.40	7.98		95.80	3.49			
	C3	Cloudy	21:26	S1	R1	Mid-ebb	1.00	16.60	27.40	7.94	8.05	95.30	3.16	3.74	4.20	
	C3			S2	R2	Mid-ebb		16.70	27.30	7.96		95.50	3.11			
	C3			M1	R1	Mid-ebb	6.40	16.60	27.40	8.12		97.40	3.99			
	C3			M2	R2	Mid-ebb		16.60	27.30	8.16		97.90	3.90			
	C3			B1	R1	Mid-ebb	11.80	16.60	27.40	8.09		97.10	4.11			
	C3			B2	R2	Mid-ebb		16.60	27.40	8.03		96.40	4.18			
	C4	Cloudy	21:00	S1	R1	Mid-ebb	1.00	16.70	27.30	7.91	7.99	94.90	2.82	3.52	3.80	
	C4			S2	R2	Mid-ebb		16.70	27.30	7.97		95.70	2.89			
	C4			M1	R1	Mid-ebb	6.70	16.60	27.40	8.05		96.60	3.74			
	C4			M2	R2	Mid-ebb		16.60	27.40	8.01		96.10	3.67			
	C4			B1	R1	Mid-ebb	13.40	16.70	27.40	8.17		98.00	4.05			
	C4			B2	R2	Mid-ebb		16.60	27.40	8.12		97.40	3.96			
	WM1	Cloudy	17:30	S1	R1	Mid-ebb	1.00	16.60	27.30	7.97	7.99	95.60	2.81	3.25	3.40	
	WM1			S2	R2	Mid-ebb		16.60	27.40	7.94		95.30	2.73			
	WM1			M1	R1	Mid-ebb	10.05	16.70	27.30	8.01		96.10	3.49			
	WM1			M2	R2	Mid-ebb		16.60	27.30	8.03		96.40	3.42			
	WM1			B1	R1	Mid-ebb	19.10	16.60	27.40	8.09		97.10	3.50			
	WM1			B2	R2	Mid-ebb		16.60	27.40	8.12		97.40	3.52			
	WM2	Cloudy	18:49	S1	R1	Mid-ebb	1.00	16.70	27.30	7.88	7.90	94.60	2.83	3.31	3.40	
	WM2			S2	R2	Mid-ebb		16.70	27.40	7.85		94.20	2.76			
	WM2			M1	R1	Mid-ebb	4.80	16.70	27.40	7.95		95.40	3.48			
	WM2			M2	R2	Mid-ebb		16.60	27.40	7.90		94.80	3.41			
	WM2			B1	R1	Mid-ebb	8.60	16.60	27.30	8.11		97.30	3.73			
	WM2			B2	R2	Mid-ebb		16.70	27.40	8.02		96.30	3.62			
	WM3	Cloudy	19:11	S1	R1	Mid-ebb	1.00	16.60	27.30	7.91	8.01	94.90	3.18	3.20	3.80	
	WM3			S2	R2	Mid-ebb		16.60	27.30	7.83		94.00	3.09			
	WM3			M1	R1	Mid-ebb	5.40	16.60	27.40	8.18		98.20	3.11			
	WM3			M2	R2	Mid-ebb		16.70	27.40	8.11		97.30	3.03			
WM3	B1			R1	Mid-ebb	9.80	16.60	27.30	8.09	97.10		3.37				
WM3	B2			R2	Mid-ebb		16.60	27.40	8.04	96.50		3.41				
WM4	Cloudy	19:37	S1	R1	Mid-ebb	1.00	16.70	27.40	8.13	8.16	97.00	3.02	3.56	3.80		
WM4			S2	R2	Mid-ebb		16.70	27.30	8.08		97.70	2.95				
WM4			M1	R1	Mid-ebb	6.55	16.60	27.40	8.22		98.60	3.66				
WM4			M2	R2	Mid-ebb		16.60	27.40	8.19		98.30	3.72				
WM4			B1	R1	Mid-ebb	12.10	16.70	27.40	8.28		99.40	3.97				
WM4			B2	R2	Mid-ebb		16.60	27.40	8.25		99.00	4.06				
WM5	Cloudy	20:06	S1	R1	Mid-ebb	1.00	16.70	27.30	7.61	7.86	93.70	2.96	3.10	3.60		
WM5			S2	R2	Mid-ebb		16.60	27.30	7.76		93.10	2.91				
WM5			M1	R1	Mid-ebb	6.05	16.60	27.40	7.97		95.60	3.09				
WM5			M2	R2	Mid-ebb		16.60	27.30	7.90		94.90	3.01				
WM5			B1	R1	Mid-ebb</											

Monitoring Date	Station	Weather Condition	Sampling Time	Depth + Replicate No.	Replicate	Tidal Level	Depth (m)	Water Temperature (°C)	Salinity (ppt)	D.O. (mg/L)	Depth-averaged D.O. (mg/L)	D.O. Saturation (%)	Turbidity (NTU)	Turbidity (Depth-averaged) (NTU)	SS (mg/L)	SS (Depth-averaged) (mg/L)					
20/03/2012	C1	Cloudy	15:06	S1	R1	Mid-flood	1.00	17.30	27.60	7.75	7.87	94.60	3.05	3.31	4.00	4.53					
				S2	R2	Mid-flood		17.30	27.50	7.78											
				M1	R1	Mid-flood	9.20	17.20	27.50	7.96							8.12	97.50	3.28		
				M2	R2	Mid-flood		17.10	27.50	7.99											
				B1	R1	Mid-flood	17.40	17.10	27.70	8.13										99.20	3.56
				B2	R2	Mid-flood		17.10	27.70	8.10											
	S1	R1	Mid-flood	1.00	17.40	27.50	7.90	7.87	96.40	3.23	2.95	3.93									
	S2	R2	Mid-flood		17.30	27.60	7.94														
	M1	R1	Mid-flood	7.30	17.10	27.60	7.84						7.78	95.60	2.76						
	M2	R2	Mid-flood		17.20	27.70	7.80														
	B1	R1	Mid-flood	13.60	17.10	27.70	7.76									95.40	3.01				
	B2	R2	Mid-flood		17.10	27.70	7.79														
	S1	R1	Mid-flood	1.00	17.30	27.60	7.90	7.85	96.40	2.39	2.78	3.33									
	S2	R2	Mid-flood		17.20	27.60	7.94														
	M1	R1	Mid-flood	6.90	17.00	27.50	7.79						7.81	95.00	2.98						
	M2	R2	Mid-flood		17.20	27.50	7.77														
	B1	R1	Mid-flood	12.80	17.10	27.70	7.82									94.70	2.83				
	B2	R2	Mid-flood		17.10	27.70	7.80														
	S1	R1	Mid-flood	1.00	17.40	27.60	7.83	7.94	95.50	2.81	2.92	3.60									
	S2	R2	Mid-flood		17.50	27.70	7.89														
	M1	R1	Mid-flood	7.20	17.20	27.70	8.03						7.94	97.90	2.97						
	M2	R2	Mid-flood		17.20	27.70	8.02														
	B1	R1	Mid-flood	13.40	17.10	27.60	7.95									96.90	2.94				
	B2	R2	Mid-flood		17.00	27.60	7.93														
	S1	R1	Mid-flood	1.00	17.20	27.60	8.21	8.18	100.20	2.04	2.42	5.83									
	S2	R2	Mid-flood		17.30	27.60	8.24														
	M1	R1	Mid-flood	10.60	17.10	27.80	8.12						8.04	99.10	2.26						
	M2	R2	Mid-flood		17.10	27.70	8.14														
	B1	R1	Mid-flood	20.20	17.10	27.70	8.02									7.85	97.30	2.94			
	B2	R2	Mid-flood		17.10	27.70	8.06														
	S1	R1	Mid-flood	1.00	17.30	27.50	7.81	7.92	95.80	2.49	2.63	3.90									
	S2	R2	Mid-flood		17.30	27.60	7.83														
	M1	R1	Mid-flood	5.50	17.20	27.70	7.89						95.50	2.52							
	M2	R2	Mid-flood		17.20	27.60	7.85														
	B1	R1	Mid-flood	10.00	17.10	27.70	7.90								96.30	2.52					
	B2	R2	Mid-flood		17.10	27.70	7.94														
	S1	R1	Mid-flood	1.00	17.20	27.50	7.90	7.94	96.40	2.80	3.93	4.83									
	S2	R2	Mid-flood		17.20	27.60	7.98														
	M1	R1	Mid-flood	5.60	17.20	27.70	7.97						8.08	97.20			3.94				
	M2	R2	Mid-flood		17.10	27.70	7.91														
	B1	R1	Mid-flood	10.20	17.10	27.70	8.07								8.02	96.50		3.96			
	B2	R2	Mid-flood		17.10	27.80	8.08														
	S1	R1	Mid-flood	1.00	17.30	27.50	7.94	8.03	97.10	2.38	2.77	3.90									
	S2	R2	Mid-flood		17.30	27.60	7.98														
	M1	R1	Mid-flood	6.60	17.20	27.70	8.09						97.80	2.42							
	M2	R2	Mid-flood		17.10	27.70	8.08														
	B1	R1	Mid-flood	12.20	17.10	27.70	8.02								98.60	2.75					
	B2	R2	Mid-flood		17.10	27.60	8.04														
	S1	R1	Mid-flood	1.00	17.30	27.60	7.91	8.01	96.50	3.11	3.08	4.83									
	S2	R2	Mid-flood		17.40	27.60	7.95														
	M1	R1	Mid-flood	6.80	17.20	27.70	8.08						8.05	98.60			3.04				
	M2	R2	Mid-flood		17.20	27.60	8.10														
	B1	R1	Mid-flood	12.60	17.20	27.70	8.01								97.70	3.08					
	B2	R2	Mid-flood		17.10	27.70	8.08														
	S1	R1	Mid-flood	1.00	17.30	27.60	7.82	7.89	95.40	2.91	3.01	4.07									
	S2	R2	Mid-flood		17.30	27.50	7.85														
	M1	R1	Mid-flood	6.60	17.20	27.60	7.91						8.04	96.50			2.98				
	M2	R2	Mid-flood		17.30	27.70	7.96														
	B1	R1	Mid-flood	12.20	17.10	27.70	8.05								97.10	2.95					
	B2	R2	Mid-flood		17.10	27.60	8.03														
	S1	R1	Mid-ebb	1.00	17.10	27.40	7.85	7.88	96.10	3.09	3.44	5.08									
	S2	R2	Mid-ebb		17.20	27.50	7.80														
	M1	R1	Mid-ebb	8.95	17.10	27.50	7.96						8.17	97.30			3.55				
	M2	R2	Mid-ebb		17.10	27.50	7.90														
	B1	R1	Mid-ebb	16.90	17.10	27.70	8.20								96.60	3.69					
	B2	R2	Mid-ebb		17.10	27.60	8.14														
	S1	R1	Mid-ebb	1.00	17.20	27.40	7.60	7.65	93.10	3.12	2.67	3.67									
	S2	R2	Mid-ebb		17.10	27.40	7.55														
	M1	R1	Mid-ebb	7.05	17.10	27.50	7.76						7.88	94.90			2.18				
	M2	R2	Mid-ebb		17.10	27.50	7.70														
	B1	R1	Mid-ebb	13.10	17.10	27.60	7.87								96.40	2.64					
	B2	R2	Mid-ebb		17.10	27.50	7.89														
	S1	R1	Mid-ebb	1.00	17.20	27.50	7.81	7.85	95.70	2.44	2.82	4.03									
	S2	R2	Mid-ebb		17.20	27.40	7.78														
	M1	R1	Mid-ebb	6.70	17.10	27.60	7.88						7.96	96.60			3.01				
	M2	R2	Mid-ebb		17.10	27.50	7.93														
	B1	R1	Mid-ebb	12.40	17.10	27.60	7.97								97.20	3.04					
	B2	R2	Mid-ebb		17.10	27.60	7.94														
	S1	R1	Mid-ebb	1.00	17.20	27.50	7.79	7.85	95.40	2.53	2.74	3.83									
	S2	R2	Mid-ebb		17.20	27.40	7.76														
	M1	R1	Mid-ebb	6.80	17.10	27.60	7.91						8.01	96.90			2.79				
	M2	R2	Mid-ebb		17.10	27.60	7.94														
	B1	R1	Mid-ebb	12.60	17.10	27.70	7.99								97.90	2.93					
	B2	R2	Mid-ebb		17.10	27.50	8.02														
	S1	R1	Mid-ebb	1.00	17.20	27.50	8.16	8.11	99.90	1.99	2.40	3.40									
	S2	R2	Mid-ebb		17.10	27.60	8.12														
	M1	R1	Mid-ebb	10.35	17.10	27.70	8.09						8.06	99.10			2.46				
	M2	R2	Mid-ebb		17.10	27.70	8.05														
	B1	R1	Mid-ebb	19.70	17.10	27.70	8.07								98.50	2.85					
	B2	R2	Mid-ebb		17.10	27.70	8.04														
	S1	R1	Mid-ebb	1.00	17.10	27.50	7.62	7.78	93.30	2.46	2.53	3.47									
	S2	R2	Mid-ebb		17.10	27.50	7.66														
	M1	R1	Mid-ebb	5.25	17.10	27.60	7.94						7.97	97.30			2.60				
	M2	R2	Mid-ebb		17.10	27.50	7.90														
	B1	R1	Mid-ebb	9.50	17.10	27.70	7.95								96.80	2.63					
	B2	R2	Mid-ebb		17.10	27.70	7.99														
	S1	R1	Mid-ebb	1.00	17.10	27.50	7.72	7.72	94.40	4.38	3.72	5.53									
	S2	R2	Mid-ebb		17.10	27.40	7.69														
	M1	R1	Mid-ebb	5.30	17.10	27.60	7.72						7.96	94.00			4.45				
	M2	R2	Mid-ebb		17.10	27.60	7.75														
B1	R1	Mid-ebb	9.60	17.10	27.60	7.94	97.20								3.04						
B2	R2	Mid-ebb		17.10	27.60	7.97															
S1	R1	Mid-ebb	1.00	17.20	27.50	7.88		7.90	96.50	2.29	2.66	3.77									
S2	R2	Mid-ebb		17.20	27.50	7.85															
M1	R1	Mid-ebb	6.40	17.10	27.60	7.91							7.9	96.80		2.59					
M2	R2	Mid-ebb		17.10	27.60	7.94															
B1	R1	Mid-ebb	11.80	17.10	27.70	7.91	7.9								96.90		3.02				
B2	R2	Mid-ebb		17.10	27.70	7.89															
S1	R1	Mid-ebb	1.00	17.20	27.50	7.74		7.82	94.80	3.01	2.95	4.17									
S2	R2	Mid-ebb		17.20	27.50	7.70															
M1	R1	Mid-ebb	6.10	17.10	27.60	7.90							7.9	96.80		2.97					
M2	R2	Mid-ebb		17.10	27.50	7.94															
B1	R1	Mid-ebb	12.20	17.10	27.60	7.87	7.9								96.40		2.82				
B2	R2	Mid-ebb		17.10	27.60	7.92															
S1	R1	Mid-ebb	1.00	17.20	27.50	7.80		7.85	95.60	2.77	2.91	4.10									
S2	R2	Mid-ebb		17.10	27.40	7.84															
M1	R1	Mid-ebb	6.40	17.10	27.60	7.89							7.94	96.70		2.95					
M2	R2	Mid-ebb		17.10	27.60	7.85															
B1	R1	Mid-ebb	11.80	17.10	27.60	7.92	96.20								3.01						
B2	R2	Mid-ebb		17.10	27.50	7.95															

Monitoring Date	Station	Weather Condition	Sampling Time	Depth + Replicate No.	Replicate	Tidal Level	Depth (m)	Water Temperature (°C)	Salinity (ppt)	D.O. (mg/L)	Depth-averaged D.O. (mg/L)	D.O. Saturation (%)	Turbidity (NTU)	Turbidity (Depth-averaged) (NTU)	SS (mg/L)	SS (Depth-averaged) (mg/L)
22/03/2012	C1	Cloudy	15:37	S1	R1	Mid-flood	1.00	17.50	27.60	8.67	8.62	106.60	2.21	2.61	3.50	4.12
	C1			S2	R2	Mid-flood	1.00	17.60	27.80	8.61		105.90	2.26		3.60	
	C1			M1	R1	Mid-flood	10.75	17.50	27.50	8.58		105.50	2.30		3.60	
	C1			M2	R2	Mid-flood	10.75	17.50	27.50	8.82		106.00	2.36		3.60	
	C1			B1	R1	Mid-flood	20.50	17.50	27.50	8.72		107.30	3.31		5.40	
	C1			B2	R2	Mid-flood	20.50	17.50	27.60	5.79		108.10	3.22		5.00	
	C2	Cloudy	15:58	S1	R1	Mid-flood	1.00	17.50	27.50	8.41	8.48	104.30	2.45	2.20	3.80	3.40
	C2			S2	R2	Mid-flood	1.00	17.60	27.50	8.36		103.70	2.39		3.60	
	C2			M1	R1	Mid-flood	7.30	17.40	27.50	8.59		106.50	2.20		3.40	
	C2			M2	R2	Mid-flood	7.30	17.50	27.60	8.55		106.00	2.15		3.40	
	C2			B1	R1	Mid-flood	13.60	17.50	27.60	8.54		105.90	2.02		3.20	
	C2			B2	R2	Mid-flood	13.60	17.50	27.60	8.52		105.60	1.96		3.00	
	C3	Cloudy	18:10	S1	R1	Mid-flood	1.00	17.60	27.70	8.77	8.67	107.90	1.77	1.95	2.80	3.10
	C3			S2	R2	Mid-flood	1.00	17.70	27.60	8.82		108.50	1.83		3.00	
	C3			M1	R1	Mid-flood	6.10	17.50	27.70	8.52		104.80	1.97		3.00	
	C3			M2	R2	Mid-flood	6.10	17.60	27.70	8.58		105.50	1.92		3.00	
	C3			B1	R1	Mid-flood	11.20	17.50	27.60	8.86		109.00	2.07		3.40	
	C3			B2	R2	Mid-flood	11.20	17.50	27.70	8.79		108.10	2.14		3.40	
	C4	Cloudy	17:48	S1	R1	Mid-flood	1.00	17.60	27.70	8.85	8.89	108.90	2.30	1.72	3.60	2.70
	C4			S2	R2	Mid-flood	1.00	17.50	27.70	8.80		108.20	2.35		3.60	
	C4			M1	R1	Mid-flood	7.15	17.50	27.60	8.97		110.30	1.39		2.20	
	C4			M2	R2	Mid-flood	7.15	17.50	27.60	8.94		110.00	1.46		2.40	
	C4			B1	R1	Mid-flood	13.30	17.50	27.70	8.83		108.60	1.44		2.40	
	C4			B2	R2	Mid-flood	13.30	17.50	27.70	8.90		109.50	1.36		2.00	
	WM1	Cloudy	15:15	S1	R1	Mid-flood	1.00	17.60	27.60	8.74	8.84	107.50	2.13	2.32	3.20	3.70
	WM1			S2	R2	Mid-flood	1.00	17.60	27.50	8.77		107.90	2.07		3.20	
	WM1			M1	R1	Mid-flood	11.45	17.40	27.60	8.95		110.10	2.34		3.80	
	WM1			M2	R2	Mid-flood	11.45	17.40	27.60	8.90		109.50	2.38		3.80	
	WM1			B1	R1	Mid-flood	21.90	17.60	27.60	8.88		109.20	2.47		4.00	
	WM1			B2	R2	Mid-flood	21.90	17.40	27.60	8.86		109.00	2.55		4.20	
	WM2	Cloudy	16:26	S1	R1	Mid-flood	1.00	17.60	27.60	8.83	8.77	108.60	2.83	2.73	4.40	4.28
	WM2			S2	R2	Mid-flood	1.00	17.60	27.60	8.86		109.00	2.75		4.00	
	WM2			M1	R1	Mid-flood	5.55	17.40	27.70	8.73		107.40	2.81		4.50	
	WM2			M2	R2	Mid-flood	5.55	17.40	27.70	8.67		106.60	2.88		4.60	
	WM2			B1	R1	Mid-flood	10.10	17.40	27.70	8.64		106.30	2.54		4.00	
	WM2			B2	R2	Mid-flood	10.10	17.40	27.70	8.68		106.80	2.58		4.20	
	WM3	Cloudy	16:42	S1	R1	Mid-flood	1.00	17.50	27.60	8.46	8.34	104.90	3.12	3.36	4.80	5.20
	WM3			S2	R2	Mid-flood	1.00	17.50	27.60	8.40		104.20	3.06		4.80	
	WM3			M1	R1	Mid-flood	5.50	17.50	27.60	8.22		101.90	3.89		6.00	
	WM3			M2	R2	Mid-flood	5.50	17.40	27.60	8.26		102.40	3.94		6.20	
	WM3			B1	R1	Mid-flood	10.00	17.40	27.70	8.61		106.80	3.03		4.60	
	WM3			B2	R2	Mid-flood	10.00	17.50	27.60	8.56		106.10	3.09		4.80	
	WM4	Cloudy	17:02	S1	R1	Mid-flood	1.00	17.50	27.70	8.51	8.50	105.50	2.04	2.24	3.00	3.40
	WM4			S2	R2	Mid-flood	1.00	17.60	27.70	8.55		106.00	2.10		3.20	
	WM4			M1	R1	Mid-flood	7.35	17.50	27.70	8.49		105.30	2.41		3.60	
	WM4			M2	R2	Mid-flood	7.35	17.50	27.70	8.43		104.50	2.33		3.40	
	WM4			B1	R1	Mid-flood	13.70	17.40	27.60	8.53		105.80	2.31		3.60	
	WM4			B2	R2	Mid-flood	13.70	17.40	27.70	8.46		104.90	2.27		3.60	
	WM5	Cloudy	17:16	S1	R1	Mid-flood	1.00	17.60	27.60	8.78	8.74	108.00	2.29	2.08	3.60	3.20
	WM5			S2	R2	Mid-flood	1.00	17.60	27.60	8.83		108.60	2.23		3.40	
	WM5			M1	R1	Mid-flood	6.60	17.40	27.70	8.68		106.80	2.15		3.20	
	WM5			M2	R2	Mid-flood	6.60	17.50	27.70	8.65		106.40	2.08		3.00	
	WM5			B1	R1	Mid-flood	12.20	17.40	27.70	8.70		107.00	1.82		3.00	
	WM5			B2	R2	Mid-flood	12.20	17.40	27.70	8.74		107.50	1.88		3.00	
	WM6	Cloudy	17:29	S1	R1	Mid-flood	1.00	17.60	27.60	8.88	8.77	106.50	2.17	1.78	3.00	2.70
	WM6			S2	R2	Mid-flood	1.00	17.60	27.70	8.82		106.00	2.12		2.20	
	WM6			M1	R1	Mid-flood	6.05	17.60	27.70	8.91		109.60	1.44		3.00	
	WM6			M2	R2	Mid-flood	6.05	17.60	27.60	8.87		109.10	1.52		2.40	
	WM6			B1	R1	Mid-flood	11.10	17.50	27.70	8.85		108.90	1.73		2.80	
	WM6			B2	R2	Mid-flood	11.10	17.40	27.70	8.89		109.30	1.69		2.80	
	C1	Cloudy	9:58	S1	R1	Mid-ebb	1.00	17.60	27.50	8.45	8.42	104.40	2.66	2.98	4.00	4.77
	C1			S2	R2	Mid-ebb	1.00	17.60	27.50	8.37		104.00	2.66		4.40	
	C1			M1	R1	Mid-ebb	10.55	17.40	27.60	8.47		104.80	2.66		4.20	
	C1			M2	R2	Mid-ebb	10.55	17.40	27.60	8.39		103.20	2.53		4.20	
	C1			B1	R1	Mid-ebb	20.10	17.40	27.60	8.42		103.70	3.60		5.80	
	C1			B2	R2	Mid-ebb	20.10	17.40	27.60	8.39		103.30	3.75		6.00	
	C2	Cloudy	10:16	S1	R1	Mid-ebb	1.00	17.50	27.50	8.30	8.27	102.00	2.67	2.12	4.00	3.40
	C2			S2	R2	Mid-ebb	1.00	17.50	27.50	8.26		101.50	2.61		4.20	
	C2			M1	R1	Mid-ebb	7.10	17.60	27.70	8.62		109.20	1.91		3.00	
	C2			M2	R2	Mid-ebb	7.10	17.40	27.60	8.23		101.40	1.92		3.20	
	C2			B1	R1	Mid-ebb	13.20	17.40	27.60	8.42		103.90	1.78		3.00	
	C2			B2	R2	Mid-ebb	13.20	17.40	27.60	8.38		103.30	1.84		3.00	
	C3	Cloudy	12:21	S1	R1	Mid-ebb	1.00	17.60	27.50	8.45	8.45	104.30	1.96	2.20	3.00	3.63
	C3			S2	R2	Mid-ebb	1.00	17.60	27.40	8.40		103.90	2.05		3.20	
	C3			M1	R1	Mid-ebb	5.80	17.40	27.70	8.46		104.40	2.27		3.80	
	C3			M2	R2	Mid-ebb	5.80	17.50	27.60	8.50		105.00	2.29		4.00	
	C3			B1	R1	Mid-ebb	10.60	17.40	27.70	8.64		106.60	2.35		4.00	
	C3			B2	R2	Mid-ebb	10.60	17.40	27.70	8.57		105.60	2.17		3.80	
	C4	Cloudy	12:03	S1	R1	Mid-ebb	1.00	17.60	27.70	8.66	8.71	107.10	2.72	1.99	4.40	3.25
	C4			S2	R2	Mid-ebb	1.00	17.60	27.60	8.76		108.50	2.77		4.60	
	C4			M1	R1	Mid-ebb	6.90	17.40	27.70	8.79		107.40	1.69		2.80	
	C4			M2	R2	Mid-ebb	6.90	17.60	27.70	8.72		108.00	1.59		2.60	
	C4			B1	R1	Mid-ebb	12.80	17.70	27.60	8.67		107.20	1.62		2.80	
	C4			B2	R2	Mid-ebb	12.80	17.50	27.70	8.73		107.90	1.57		2.50	
	WM1	Cloudy	9:37	S1	R1	Mid-ebb	1.00	17.40	27.50	8.59	8.67	105.60	2.25	2.61	3.20	4.13
	WM1			S2	R2	Mid-ebb	1.00	17.40	27.50	8.62		106.10	2.30		3.60	
	WM1			M1	R1	Mid-ebb	11.20	17.40	27.60	8.75		107.70	2.67		4.40	
	WM1			M2	R2	Mid-ebb	11.20	17.40	27.60	8.70		107.10	2.78		4.60	
	WM1			B1	R1	Mid-ebb	21.40	17.40	27.60	8.70		107.10	2.84		4.40	
	WM1			B2	R2	Mid-ebb	21.40	17.40	27.60	8.63		106.50	2.81		4.60	
WM2	Cloudy	10:56	S1	R1	Mid-ebb	1.00	17.50	27.70	8.65	8.58	106.60	3.09	3.05	4.40	4.68	
WM2			S2	R2	Mid-ebb	1.00	17.50	27.70	8.60		106.00	3.03		4.50		
WM2			M1	R1	Mid-ebb	5.25	17.40	27.70	8.55		105.40	3.25		5.00		
WM2			M2	R2	Mid-ebb	5.25	17.40	27.70	8.50		104.80	3.30		5.20		
WM2			B1	R1	Mid-ebb	9.50	17.40	27.70	8.50		104.80	2.85		4.40		
WM2			B2	R2	Mid-ebb	9.50	17.40	27.70	8.44		104.10	2.80		4.60		
WM3	Cloudy	10:43	S1	R1	Mid-ebb	1.00	17.50	27.60	8.24	8.17	101.60	3.40	3.64	5.00	5.47	
WM3			S2	R2	Mid-ebb	1.00	17.50	27.60	8.16		100.90	3.47		5.00		
WM3			M1	R1	Mid-ebb	5.25	17.50	27.60	8.13		10					

Monitoring Date	Station	Weather Condition	Sampling Time	Depth + Replicate No.	Replicate	Tidal Level	Depth (m)	Water Temperature (°C)	Salinity (ppt)	D.O. (mg/L)	Depth-averaged D.O. (mg/L)	D.O. Saturation (%)	Turbidity (NTU)	Turbidity (Depth-averaged) (NTU)	SS (mg/L)	SS (Depth-averaged) (mg/L)	
24/03/2012	C1	Fine	16:51	S1	R1	Mid-flood	1.00	17.60	27.60	8.51	8.44	103.80	2.54	2.60	3.50	3.68	
				S2	R2	Mid-flood		17.70	27.70	8.47		103.30	2.51		3.60		
				M1	R1	Mid-flood		6.10	17.60	27.60		8.41	102.60		2.61		3.60
				M2	R2	Mid-flood		17.50	27.70	8.36		101.90	2.58		3.60		
				B1	R1	Mid-flood		11.20	17.50	27.80		8.31	101.30		2.67		3.80
				B2	R2	Mid-flood		17.60	27.80	8.34		101.70	2.70		3.80		
	C2	Fine	17:15	S1	R1	Mid-flood	1.00	17.60	27.70	8.29	8.30	101.10	2.86	3.09	4.00	3.97	
				S2	R2	Mid-flood		17.70	27.80	8.34		101.70	2.92		3.80		
				M1	R1	Mid-flood		10.80	17.50	27.70		8.31	101.30		3.02		4.00
				M2	R2	Mid-flood		17.60	27.80	8.27		100.80	3.07		3.80		
				B1	R1	Mid-flood		20.60	17.50	27.80		8.18	99.80		3.31		4.20
				B2	R2	Mid-flood		17.50	27.80	8.15		99.40	3.36		4.00		
	C3	Fine	20:03	S1	R1	Mid-flood	1.00	17.60	27.70	8.54	8.45	104.10	2.81	3.03	3.60	4.10	
				S2	R2	Mid-flood		17.60	27.80	8.51		103.80	2.78		3.80		
				M1	R1	Mid-flood		6.50	17.50	27.80		8.36	102.00		2.94		4.20
				M2	R2	Mid-flood		17.50	27.80	8.39		102.30	2.91		4.00		
				B1	R1	Mid-flood		12.00	17.50	27.70		8.29	101.10		3.32		4.40
				B2	R2	Mid-flood		17.40	27.80	8.24		100.50	3.39		4.60		
	C4	Fine	19:29	S1	R1	Mid-flood	1.00	17.60	27.60	8.42	8.37	102.70	3.02	3.14	4.00	4.27	
				S2	R2	Mid-flood		17.70	27.70	8.36		101.90	2.96		3.80		
				M1	R1	Mid-flood		6.80	17.50	27.70		8.33	101.60		3.15		4.20
				M2	R2	Mid-flood		17.60	27.70	8.37		102.10	3.18		4.00		
				B1	R1	Mid-flood		12.60	17.50	27.80		8.24	100.50		3.22		4.60
				B2	R2	Mid-flood		17.50	27.90	8.21		100.20	3.28		5.00		
	WM1	Fine	16:30	S1	R1	Mid-flood	1.00	17.60	27.60	8.36	8.34	101.90	2.80	3.01	3.60	4.00	
				S2	R2	Mid-flood		17.60	27.60	8.39		102.40	2.84		3.80		
				M1	R1	Mid-flood		10.30	17.50	27.70		8.31	101.40		2.96		4.00
				M2	R2	Mid-flood		17.50	27.70	8.28		101.10	2.94		4.00		
				B1	R1	Mid-flood		19.60	17.60	27.80		8.21	100.20		3.21		4.20
				B2	R2	Mid-flood		17.50	27.70	8.23		100.30	3.24		4.40		
	WM2	Fine	17:36	S1	R1	Mid-flood	1.00	17.60	27.80	8.39	8.29	102.40	2.94	3.07	3.80	4.17	
				S2	R2	Mid-flood		17.60	27.80	8.33		101.60	2.99		3.50		
				M1	R1	Mid-flood		4.80	17.50	27.90		8.25	100.60		3.05		4.50
				M2	R2	Mid-flood		17.60	27.80	8.20		100.00	3.11		4.20		
				B1	R1	Mid-flood		8.60	17.50	27.90		8.22	100.20		3.17		4.40
				B2	R2	Mid-flood		17.40	27.90	8.19		99.90	3.13		4.60		
	WM3	Fine	17:54	S1	R1	Mid-flood	1.00	17.60	27.70	8.44	8.38	102.90	2.81	3.14	3.60	4.13	
				S2	R2	Mid-flood		17.60	27.80	8.49		103.50	2.87		3.80		
				M1	R1	Mid-flood		5.70	17.60	27.80		8.33	101.60		2.96		4.00
				M2	R2	Mid-flood		17.50	27.80	8.27		100.80	3.01		4.20		
				B1	R1	Mid-flood		10.40	17.40	27.90		8.25	100.60		3.55		4.60
				B2	R2	Mid-flood		17.50	27.70	8.21		100.10	3.62		4.60		
	WM4	Fine	18:24	S1	R1	Mid-flood	1.00	17.70	27.70	8.21	8.32	101.60	2.86	3.11	3.60	4.13	
				S2	R2	Mid-flood		17.60	27.70	8.38		102.20	2.85		3.60		
				M1	R1	Mid-flood		6.80	17.60	27.80		8.30	101.20		2.97		4.00
				M2	R2	Mid-flood		17.60	27.70	8.26		100.70	3.06		4.20		
				B1	R1	Mid-flood		12.60	17.50	27.80		8.20	99.90		3.46		4.60
				B2	R2	Mid-flood		17.60	27.90	8.17		99.60	3.51		4.80		
	WM5	Fine	18:44	S1	R1	Mid-flood	1.00	17.60	27.70	8.52	8.45	103.90	2.61	2.70	4.60	3.85	
				S2	R2	Mid-flood		17.70	27.80	8.46		103.20	2.55		3.40		
				M1	R1	Mid-flood		6.40	17.60	27.70		8.41	102.60		2.64		3.60
				M2	R2	Mid-flood		17.60	27.70	8.39		102.30	2.71		3.50		
				B1	R1	Mid-flood		11.80	17.50	27.80		8.23	100.40		2.87		4.00
				B2	R2	Mid-flood		17.50	27.80	8.27		100.90	2.81		4.00		
	WM6	Fine	19:06	S1	R1	Mid-flood	1.00	17.70	27.70	8.29	8.26	101.10	2.84	3.08	3.80	4.17	
				S2	R2	Mid-flood		17.70	27.80	8.25		100.60	2.90		4.00		
				M1	R1	Mid-flood		6.30	17.60	27.70		8.22	100.20		2.95		4.00
				M2	R2	Mid-flood		17.50	27.80	8.26		100.70	2.98		4.20		
				B1	R1	Mid-flood		11.60	17.50	27.70		8.18	99.80		3.39		4.60
				B2	R2	Mid-flood		17.60	27.80	8.14		99.30	3.43		4.40		
	C1	Fine	11:26	S1	R1	Mid-ebb	1.00	17.70	27.60	8.12	8.13	99.10	3.72	3.92	4.50	4.88	
				S2	R2	Mid-ebb		17.70	27.60	8.16		99.60	3.78		4.80		
				M1	R1	Mid-ebb		5.50	17.60	27.70		8.09	98.60		4.05		5.00
				M2	R2	Mid-ebb		17.60	27.70	8.15		99.40	4.10		5.20		
				B1	R1	Mid-ebb		10.00	17.60	27.80		8.00	97.60		3.92		4.80
				B2	R2	Mid-ebb		17.60	27.80	8.04		98.10	3.96		5.00		
	C2	Fine	11:43	S1	R1	Mid-ebb	1.00	17.70	27.70	8.01	8.07	97.70	3.90	4.11	4.80	5.07	
				S2	R2	Mid-ebb		17.60	27.80	8.03		97.90	3.96		5.00		
				M1	R1	Mid-ebb		10.40	17.60	27.80		8.10	98.80		4.34		5.20
				M2	R2	Mid-ebb		17.50	27.80	8.14		99.40	4.38		5.40		
				B1	R1	Mid-ebb		19.80	17.50	27.80		7.92	96.60		4.02		5.00
				B2	R2	Mid-ebb		17.40	27.90	7.96		97.10	4.07		5.00		
	C3	Fine	14:45	S1	R1	Mid-ebb	1.00	17.70	27.80	8.21	8.15	100.20	2.98	3.34	4.00	4.33	
				S2	R2	Mid-ebb		17.80	27.70	8.24		100.50	3.03		4.00		
				M1	R1	Mid-ebb		6.10	17.70	27.80		8.10	99.20		3.18		4.20
				M2	R2	Mid-ebb		17.70	27.80	8.06		98.30	3.22		4.40		
				B1	R1	Mid-ebb		11.20	17.70	27.70		8.23	100.50		3.84		4.80
				B2	R2	Mid-ebb		17.70	27.60	8.27		100.90	3.78		4.60		
	C4	Fine	14:15	S1	R1	Mid-ebb	1.00	17.70	27.70	8.18	8.25	99.80	3.05	3.15	4.00	4.15	
				S2	R2	Mid-ebb		17.70	27.70	8.23		100.40	3.09		4.00		
				M1	R1	Mid-ebb		6.40	17.70	27.70		8.30	101.30		3.13		4.20
				M2	R2	Mid-ebb		17.60	27.80	8.28		101.10	3.07		4.00		
				B1	R1	Mid-ebb		11.80	17.60	27.70		8.12	99.10		3.24		4.20
				B2	R2	Mid-ebb		17.60	27.80	8.16		99.60	3.30		4.50		
	WM1	Fine	11:00	S1	R1	Mid-ebb	1.00	17.70	27.50	8.05	8.06	98.20	2.91	3.10	3.80	4.10	
				S2	R2	Mid-ebb		17.60	27.60	8.10		98.80	2.96		4.00		
				M1	R1	Mid-ebb		9.80	17.60	27.60		8.01	97.70		3.10		4.00
				M2	R2	Mid-ebb		17.50	27.70	8.06		98.30	3.16		4.20		
				B1	R1	Mid-ebb		18.60	17.50	27.70		8.13	99.10		3.23		4.40
				B2	R2	Mid-ebb		17.60	27.80	8.17		99.70	3.25		4.20		
	WM2	Fine	12:14	S1	R1	Mid-ebb	1.00	17.70	27.80	8.04	8.07	98.10	2.84	3.13	3.60	4.13	
				S2	R2	Mid-ebb		17.70	27.80	7.97		97.20	2.90		4.00		
				M1	R1	Mid-ebb		4.40	17.60	27.80		8.16	99.50		3.03		4.00
				M2	R2	Mid-ebb		17.60	27.90	8.11		98.90	3.14		4.20		
				B1	R1	Mid-ebb		7.80	17.60	27.80		8.06	98.30		3.44		4.60
				B2	R2	Mid-ebb		17.60	27.90	8.09		98.70	3.40		4.40		
	WM3	Fine	12:37	S1	R1	Mid-ebb	1.00	17.60	27.60	7.92	7.99	96.60	3.04	3.00	4.00	3.97	
				S2	R2	Mid-ebb		17.70	27.70	7.94		96.80	3.10		4.20		
				M1	R1	Mid-ebb		5.30	17.60	27.80		8.02	97.80		2.87		3.80
				M2	R2	Mid-ebb		17.60	27.70	8.06		98.30	2.92		3.80		
B1				R1	Mid-ebb	9.60		17.70	27.80	7.88		96.10	3.06		4.00		
B2				R2	Mid-ebb	17.60		27.80	7.93	96.70		3.00	4.00				
WM4	Fine	13:00	S1	R1	Mid-ebb	1.00	17.70	27.70	8.12	8.18	99.10	2.92	3.26	3.80	4.37		
			S2	R2	Mid-ebb		17.80	27.60	8.16		99.60	2.94		4.00			
			M1	R1	Mid-ebb		6.40	17.70	27.70		8.21	100.20		3.18		4.20	
			M2	R2	Mid-ebb		17.70	27.80	8.23		100.50	3.23		4.40			
			B1	R1	Mid-ebb		11.80	17.70	27.80		8.13	99.20		3.68		4.80	
			B2	R2	Mid-ebb		17.60	27.80	8.08		98.60	3.62		5.00			
WM5	Fine	13:25	S1	R1	Mid-ebb	1.00	17.70										

Monitoring Date	Station	Weather Condition	Sampling Time	Depth + Replicate No.	Replicate	Tidal Level	Depth (m)	Water Temperature (°C)	Salinity (ppt)	D.O. (mg/L)	Depth-averaged D.O. (mg/L)	D.O. Saturation (%)	Turbidity (NTU)	Turbidity (Depth-averaged) (NTU)	SS (mg/L)	SS (Depth-averaged) (mg/L)
27/03/2012	C1	Fine	7:42	S1	R1	Mid-flood	1.00	17.90	27.00	7.51	7.76	93.10	3.35	3.60	5.00	5.23
				S2	R2	Mid-flood		17.90	27.10	7.54		93.50	3.43		5.20	
				M1	R1	Mid-flood	10.60	17.90	27.30	7.96		92.70	3.66		5.20	
				M2	R2	Mid-flood		17.90	27.40	8.02		99.40	3.70		5.40	
				B1	R1	Mid-flood	20.20	17.80	27.30	8.14		100.90	3.74		5.40	
				B2	R2	Mid-flood		17.80	27.30	8.16		101.20	3.69		5.20	
	C2	Fine	8:05	S1	R1	Mid-flood	1.00	17.90	27.00	7.60	7.73	94.20	2.68	3.13	4.20	4.80
				S2	R2	Mid-flood		17.80	27.00	7.57		93.90	2.73		4.20	
				M1	R1	Mid-flood	7.15	17.80	27.30	7.85		97.30	3.22		5.00	
				M2	R2	Mid-flood		17.80	27.30	7.89		97.80	3.29		5.00	
				B1	R1	Mid-flood	13.30	17.80	27.30	7.94		98.50	3.41		5.20	
				B2	R2	Mid-flood		17.80	27.30	7.97		98.80	3.47		5.20	
	C3	Fine	10:58	S1	R1	Mid-flood	1.00	17.80	27.20	8.18	8.24	100.60	2.94	3.30	4.40	4.73
				S2	R2	Mid-flood		17.90	27.20	8.15		100.20	2.90		4.40	
				M1	R1	Mid-flood	6.30	17.90	27.30	8.30		102.10	3.45		4.80	
				M2	R2	Mid-flood		17.90	27.40	8.34		102.60	3.41		4.80	
				B1	R1	Mid-flood	11.60	17.90	27.30	8.32		102.30	3.57		5.00	
				B2	R2	Mid-flood		17.90	27.30	8.27		101.70	3.52		5.00	
	C4	Fine	10:25	S1	R1	Mid-flood	1.00	17.80	27.10	8.26	8.32	101.60	2.84	3.40	4.40	4.70
				S2	R2	Mid-flood		17.90	27.10	8.21		101.00	2.76		4.40	
				M1	R1	Mid-flood	7.05	17.80	27.40	8.37		103.00	3.64		4.80	
				M2	R2	Mid-flood		17.90	27.40	8.42		103.60	3.72		4.80	
				B1	R1	Mid-flood	13.10	17.80	27.40	8.49		104.40	3.67		4.80	
				B2	R2	Mid-flood		17.80	27.40	8.54		105.00	3.75		5.00	
	WM1	Fine	7:15	S1	R1	Mid-flood	1.00	17.90	27.00	7.88	7.96	97.70	2.92	3.37	4.40	4.93
				S2	R2	Mid-flood		17.80	27.10	7.83		97.10	2.98		4.40	
				M1	R1	Mid-flood	11.35	17.90	27.30	8.09		100.30	3.61		5.20	
				M2	R2	Mid-flood		17.90	27.30	8.04		99.70	3.53		5.20	
				B1	R1	Mid-flood	21.70	17.80	27.40	8.11		102.60	3.96		5.20	
				B2	R2	Mid-flood		17.90	27.30	8.06		99.90	3.57		5.00	
	WM2	Fine	8:33	S1	R1	Mid-flood	1.00	17.90	27.10	7.78	7.97	96.50	2.94	3.36	4.40	4.88
				S2	R2	Mid-flood		18.00	27.10	7.64		97.20	2.86		4.50	
				M1	R1	Mid-flood	5.45	17.80	27.40	8.13		100.80	3.56		5.00	
				M2	R2	Mid-flood		17.90	27.40	8.11		100.60	3.52		5.00	
				B1	R1	Mid-flood	9.90	17.90	27.30	8.09		100.30	3.61		5.20	
				B2	R2	Mid-flood		17.90	27.40	8.15		101.10	3.69		5.20	
	WM3	Fine	8:47	S1	R1	Mid-flood	1.00	17.90	27.00	7.72	7.85	95.70	3.67	3.65	5.20	5.37
				S2	R2	Mid-flood		17.90	27.00	7.76		96.20	3.60		5.20	
				M1	R1	Mid-flood	5.60	17.90	27.30	7.98		99.00	3.74		5.40	
				M2	R2	Mid-flood		17.80	27.40	7.93		98.30	3.79		5.40	
				B1	R1	Mid-flood	10.20	17.80	27.40	8.04		99.70	3.58		5.60	
				B2	R2	Mid-flood		17.90	27.40	8.06		99.90	3.53		5.40	
	WM4	Fine	9:11	S1	R1	Mid-flood	1.00	17.90	27.10	8.13	8.17	100.80	3.62	3.40	4.20	4.93
				S2	R2	Mid-flood		17.90	27.10	8.07		100.10	2.87		4.20	
				M1	R1	Mid-flood	7.45	17.80	27.30	8.21		101.80	3.64		5.20	
				M2	R2	Mid-flood		17.80	27.30	8.25		102.30	3.59		5.20	
				B1	R1	Mid-flood	13.90	17.80	27.40	8.32		103.20	3.70		5.40	
				B2	R2	Mid-flood		17.80	27.30	8.36		103.70	3.75		5.40	
	WM5	Fine	9:38	S1	R1	Mid-flood	1.00	17.90	27.20	8.05	8.13	99.80	2.71	2.99	4.20	4.40
				S2	R2	Mid-flood		17.90	27.10	8.03		99.60	2.64		4.20	
				M1	R1	Mid-flood	6.45	17.90	27.30	8.19		101.60	3.06		4.60	
				M2	R2	Mid-flood		17.90	27.30	8.23		102.10	3.11		4.50	
				B1	R1	Mid-flood	11.90	17.90	27.30	8.24		102.20	3.25		4.50	
				B2	R2	Mid-flood		17.80	27.30	8.17		101.30	3.18		4.40	
	WM6	Fine	10:01	S1	R1	Mid-flood	1.00	18.00	27.00	8.10	8.30	99.80	2.95	3.24	4.40	4.70
				S2	R2	Mid-flood		18.00	27.10	8.17		100.50	3.03		4.40	
				M1	R1	Mid-flood	6.20	17.80	27.40	8.47		104.20	3.32		4.80	
				M2	R2	Mid-flood		17.90	27.40	8.44		103.80	3.37		4.80	
				B1	R1	Mid-flood	11.40	17.90	27.30	8.40		103.30	3.40		4.80	
				B2	R2	Mid-flood		17.90	27.40	8.46		104.10	3.34		4.80	
	C1	Fine	14:10	S1	R1	Mid-ebb	1.00	18.20	27.20	7.26	7.34	90.00	3.46	3.73	4.80	5.02
				S2	R2	Mid-ebb		18.10	27.10	7.29		90.30	3.41		4.60	
				M1	R1	Mid-ebb	10.30	18.10	27.20	7.38		91.50	3.82		5.20	
				M2	R2	Mid-ebb		18.20	27.30	7.43		92.10	3.88		5.20	
				B1	R1	Mid-ebb	19.60	18.10	27.20	7.49		92.80	3.87		5.20	
				B2	R2	Mid-ebb		18.10	27.30	7.45		92.30	3.91		5.40	
	C2	Fine	14:33	S1	R1	Mid-ebb	1.00	18.20	27.30	7.33	7.42	90.90	2.89	3.31	4.20	4.67
				S2	R2	Mid-ebb		18.20	27.20	7.30		90.50	2.94		4.20	
				M1	R1	Mid-ebb	6.90	18.20	27.20	7.55		93.60	3.48		4.80	
				M2	R2	Mid-ebb		18.10	27.30	7.51		93.10	3.42		4.80	
				B1	R1	Mid-ebb	12.80	18.10	27.30	7.62		94.40	3.55		5.00	
				B2	R2	Mid-ebb		18.20	27.30	7.66		94.90	3.59		5.00	
	C3	Fine	17:18	S1	R1	Mid-ebb	1.00	18.30	27.30	8.01	8.06	99.30	3.16	3.45	4.60	4.93
				S2	R2	Mid-ebb		18.30	27.30	7.98		98.90	3.18		4.60	
				M1	R1	Mid-ebb	6.10	18.20	27.30	8.13		100.80	3.46		5.00	
				M2	R2	Mid-ebb		18.20	27.20	8.10		100.40	3.52		5.00	
				B1	R1	Mid-ebb	11.20	18.20	27.20	8.15		101.10	3.69		5.20	
				B2	R2	Mid-ebb		18.10	27.30	8.09		100.30	3.66		5.20	
	C4	Fine	16:49	S1	R1	Mid-ebb	1.00	18.30	27.20	8.03	8.11	99.50	2.97	3.60	4.20	5.07
				S2	R2	Mid-ebb		18.40	27.30	8.06		99.90	3.02		4.20	
				M1	R1	Mid-ebb	6.80	18.20	27.30	8.14		100.90	3.89		5.40	
				M2	R2	Mid-ebb		18.30	27.30	8.19		101.50	3.82		5.40	
				B1	R1	Mid-ebb	12.60	18.20	27.40	8.15		101.80	3.98		5.60	
				B2	R2	Mid-ebb		18.20	27.30	8.22		101.90	3.94		5.60	
	WM1	Fine	13:45	S1	R1	Mid-ebb	1.00	18.10	27.10	7.52	7.65	93.20	3.04	3.51	4.40	4.93
				S2	R2	Mid-ebb		18.20	27.10	7.54		93.40	3.10		4.60	
				M1	R1	Mid-ebb	11.10	18.10	27.20	7.78		96.40	3.68		5.00	
				M2	R2	Mid-ebb		18.10	27.10	7.74		95.90	3.74		5.20	
				B1	R1	Mid-ebb	21.20	18.10	27.20	7.86		97.40	3.77		5.20	
				B2	R2	Mid-ebb		18.00	27.30	7.84		97.20	3.71		5.20	
	WM2	Fine	15:02	S1	R1	Mid-ebb	1.00	18.20	27.30	7.41	7.61	91.80	3.04	3.51	4.60	5.03
				S2	R2	Mid-ebb		18.30	27.30	7.48		92.70	3.10		4.50	
				M1	R1	Mid-ebb	5.20	18.20	27.30	7.79		96.60	3.66		5.50	
				M2	R2	Mid-ebb		18.20	27.20	7.76		96.20	3.71		5.20	
				B1	R1	Mid-ebb	9.40	18.20	27.30	7.83		97.10	3.74		5.20	
				B2	R2	Mid-ebb		18.10	27.20	7.80		96.70	3.80		5.20	
	WM3	Fine	15:17	S1	R1	Mid-ebb	1.00	18.30	27.20	7.44	7.53	92.20	3.77	3.80	5.20	5.30
				S2	R2	Mid-ebb		18.20	27.30	7.47		92.60	3.82		5.40	
				M1	R1	Mid-ebb	5.40	18.20	27.20	7.57		93.80	3.91		5.40	
				M2	R2	Mid-ebb		18.30	27.30	7.62		94.40	3.87		5.40	
				B1	R1	Mid-ebb	9.80	18.20	27.40	7.64		94.70	3.71		5.20	
				B2	R2	Mid-ebb		18.20	27.30	7.71		95.60	3.74		5.20	
	WM4	Fine	15:39	S1	R1	Mid-ebb	1.00	18.20	27.20	7.89	7.96	97.80	2.95	3.51	4.40	4.97
				S2	R2	Mid-ebb		18.30	27.20	7.94		98.40	2.99		4.40	
				M1	R1	Mid-ebb	7.30	18.20	27.20	7.98		98.90	3.60		5.00	
				M2	R2	Mid-ebb		18.30	27.30	8.04		99.70	3.69		5.00	
				B1	R1	Mid-ebb	13.60	18.20	27.40	8.90		100.30	3.89		5.60	
				B2	R2	Mid-ebb		18.20	27.30	8.13		100.80	3.93		5.40	

Monitoring Date	Station	Weather Condition	Sampling Time	Depth + Replicate No.	Replicate	Tidal Level	Depth (m)	Water Temperature (°C)	Salinity (ppt)	D.O. (mg/L)	Depth-averaged D.O. (mg/L)	D.O. Saturation (%)	Turbidity (NTU)	Turbidity (Depth-averaged) (NTU)	SS (mg/L)	SS (Depth-averaged) (mg/L)	
29/03/2012	C1 C1 C1 C1 C1	Fine	8:36	S1	R1	Mid-flood	1.00	17.70	27.80	8.72	8.72	107.30	2.22	2.44	3.00	3.47	
				S2	R2	Mid-flood		17.70	27.70	8.76		107.80	2.26		3.40		
				M1	R1	Mid-flood		17.70	27.70	8.68		106.80	2.40		3.20		
				M2	R2	Mid-flood		10.60	17.60	27.70		8.73	107.40		2.44		4.00
				B1	R1	Mid-flood		20.20	17.70	27.80		8.60	105.80		2.63		4.00
				B2	R2	Mid-flood		17.80	27.80	8.65		106.40	2.68		3.20		
	C2 C2 C2 C2	Fine	8:59	S1	R1	Mid-flood	1.00	17.70	27.60	8.70	8.74	107.00	2.28	2.10	3.40		
				S2	R2	Mid-flood		17.70	27.60	8.67		106.60	2.31		2.80		
				M1	R1	Mid-flood		7.30	17.70	27.70		8.81	108.30		1.98	3.00	
				M2	R2	Mid-flood		7.30	17.70	27.70		8.78	107.90		2.04	3.20	
				B1	R1	Mid-flood		13.60	17.70	27.70		8.73	107.40		2.02	3.20	
				B2	R2	Mid-flood		13.60	17.60	27.70		8.76	107.70		1.96	3.00	
	C3 C3 C3 C3	Fine	11:27	S1	R1	Mid-flood	1.00	17.70	27.60	8.83	8.80	108.70	1.98	2.14	3.20		
				S2	R2	Mid-flood		17.70	27.70	8.90		109.50	2.02		3.20		
				M1	R1	Mid-flood		6.10	17.70	27.70		8.70	107.00		2.16	3.20	
				M2	R2	Mid-flood		6.10	17.70	27.70		8.77	107.90		2.19	3.60	
				B1	R1	Mid-flood		11.20	17.70	27.60		8.68	106.70		2.22	3.60	
				B2	R2	Mid-flood		11.20	17.60	27.60		8.62	106.10		2.27	3.80	
	C4 C4 C4 C4	Fine	11:02	S1	R1	Mid-flood	1.00	17.70	27.70	8.81	8.85	108.30	2.40	2.14	3.40		
				S2	R2	Mid-flood		17.80	27.70	8.86		109.10	2.46		3.60		
				M1	R1	Mid-flood		7.00	17.70	27.70		8.89	109.40		2.18	3.20	
				M2	R2	Mid-flood		7.00	17.70	27.80		8.84	108.70		2.13	3.20	
				B1	R1	Mid-flood		13.00	17.70	27.70		8.77	107.80		1.80	2.80	
				B2	R2	Mid-flood		13.00	17.80	27.60		8.80	108.20		1.85	3.00	
	WM1 WM1 WM1 WM1	Fine	8:13	S1	R1	Mid-flood	1.00	17.70	27.80	8.62	8.60	106.00	2.34	2.35	3.40		
				S2	R2	Mid-flood		17.60	27.80	8.66		106.50	2.30		3.20		
				M1	R1	Mid-flood		11.30	17.70	27.70		8.58	105.50		2.46	3.60	
				M2	R2	Mid-flood		11.30	17.80	27.80		8.53	104.90		2.48	3.80	
				B1	R1	Mid-flood		21.60	17.80	27.70		8.48	104.30		2.24	3.60	
				B2	R2	Mid-flood		21.60	17.70	27.80		8.55	105.20		2.30	3.60	
	WM2 WM2 WM2 WM2	Fine	9:28	S1	R1	Mid-flood	1.00	17.70	27.70	8.68	8.76	106.70	2.44	2.63	3.60		
				S2	R2	Mid-flood		17.80	27.80	8.75		107.60	2.50		3.50		
				M1	R1	Mid-flood		5.40	17.80	27.70		8.78	108.10		2.68	4.00	
				M2	R2	Mid-flood		5.40	17.70	27.70		8.82	108.50		2.54	3.80	
				B1	R1	Mid-flood		9.80	17.70	27.70		8.90	109.50		2.88	4.40	
				B2	R2	Mid-flood		9.80	17.70	27.70		8.85	108.90		2.72	4.20	
	WM3 WM3 WM3 WM3	Fine	9:40	S1	R1	Mid-flood	1.00	17.80	27.70	8.62	8.66	106.10	2.98	2.83	4.40		
				S2	R2	Mid-flood		17.80	27.70	8.58		105.50	2.83		4.00		
				M1	R1	Mid-flood		5.50	17.70	27.70		8.69	106.90		2.71	4.20	
				M2	R2	Mid-flood		5.50	17.80	27.70		8.74	107.50		2.76	4.20	
				B1	R1	Mid-flood		10.00	17.70	27.70		8.81	108.40		2.82	4.60	
				B2	R2	Mid-flood		10.00	17.70	27.80		8.83	108.80		2.86	4.40	
	WM4 WM4 WM4 WM4	Fine	10:02	S1	R1	Mid-flood	1.00	17.70	27.60	8.57	8.54	105.60	2.19	2.34	3.40		
				S2	R2	Mid-flood		17.80	27.60	8.62		106.00	2.22		3.40		
				M1	R1	Mid-flood		7.20	17.80	27.60		8.50	104.60		2.40	4.00	
				M2	R2	Mid-flood		7.20	17.80	27.70		8.47	104.20		2.44	4.00	
				B1	R1	Mid-flood		13.40	17.70	27.70		8.55	105.20		2.38	3.60	
				B2	R2	Mid-flood		13.40	17.80	27.70		8.60	105.80		2.42	3.80	
	WM5 WM5 WM5 WM5	Fine	10:20	S1	R1	Mid-flood	1.00	17.70	27.60	8.70	8.67	107.10	2.28	2.20	3.40		
				S2	R2	Mid-flood		17.70	27.70	8.74		107.50	2.33		3.60		
				M1	R1	Mid-flood		6.50	17.70	27.60		8.63	106.20		2.19	3.40	
				M2	R2	Mid-flood		6.50	17.80	27.70		8.60	105.80		2.23	3.50	
				B1	R1	Mid-flood		12.00	17.70	27.70		8.58	105.50		2.10	3.00	
				B2	R2	Mid-flood		12.00	17.70	27.70		8.64	106.30		2.06	3.20	
	WM6 WM6 WM6 WM6	Fine	10:39	S1	R1	Mid-flood	1.00	17.70	27.70	8.78	8.71	107.90	2.18	2.07	3.20		
				S2	R2	Mid-flood		17.70	27.70	8.72		107.30	2.24		3.60		
				M1	R1	Mid-flood		5.90	17.70	27.60		8.68	106.80		2.09	3.20	
				M2	R2	Mid-flood		5.90	17.70	27.70		8.66	106.50		2.11	3.20	
				B1	R1	Mid-flood		10.80	17.60	27.70		8.61	105.90		1.89	3.00	
				B2	R2	Mid-flood		10.80	17.70	27.70		8.56	105.30		1.94	3.00	
	C1 C1 C1 C1	Fine	13:40	S1	R1	Mid-ebb	1.00	17.80	27.70	8.46	8.49	104.70	2.59	2.75	4.00		
				S2	R2	Mid-ebb		17.90	27.70	8.50		105.10	2.53		3.80		
				M1	R1	Mid-ebb		10.40	17.80	27.60		8.54	105.30		2.77	4.60	
				M2	R2	Mid-ebb		10.40	17.80	27.70		8.46	104.30		2.71	4.00	
				B1	R1	Mid-ebb		19.80	17.80	27.70		8.44	104.30		2.99	4.60	
				B2	R2	Mid-ebb		19.80	17.70	27.70		8.38	103.60		2.91	4.60	
	C2 C2 C2 C2	Fine	14:02	S1	R1	Mid-ebb	1.00	18.00	27.80	8.44	8.48	103.70	2.55	2.33	3.60		
				S2	R2	Mid-ebb		17.90	27.70	8.38		103.00	2.60		4.00		
				M1	R1	Mid-ebb		7.05	17.80	27.70		8.57	106.00		2.12	3.20	
				M2	R2	Mid-ebb		7.05	17.80	27.70		8.51	105.20		2.16	3.60	
				B1	R1	Mid-ebb		13.10	17.70	27.70		8.41	103.50		2.25	3.60	
				B2	R2	Mid-ebb		13.10	17.60	27.80		8.47	104.30		2.31	3.80	
	C3 C3 C3 C3	Fine	17:00	S1	R1	Mid-ebb	1.00	17.90	27.70	8.66	8.59	107.30	2.10	2.23	3.00		
				S2	R2	Mid-ebb		17.90	27.70	8.71		107.80	2.16		3.20		
				M1	R1	Mid-ebb		5.80	17.80	27.60		8.53	105.70		2.27	3.80	
				M2	R2	Mid-ebb		5.80	17.90	27.70		8.47	104.90		2.21	3.60	
				B1	R1	Mid-ebb		10.60	17.80	27.70		8.48	105.10		2.33	3.80	
				B2	R2	Mid-ebb		10.60	17.80	27.80		8.43	104.40		2.30	3.80	
	C4 C4 C4 C4	Fine	16:32	S1	R1	Mid-ebb	1.00	17.90	27.60	8.65	8.65	106.80	2.68	2.33	4.00		
				S2	R2	Mid-ebb		18.00	27.70	8.61		106.30	2.62		4.00		
				M1	R1	Mid-ebb		6.80	17.80	27.70		8.64	106.90		2.39	3.80	
				M2	R2	Mid-ebb		6.80	17.90	27.80		8.71	107.80		2.32	3.60	
				B1	R1	Mid-ebb		12.60	17.80	27.70		8.61	106.10		1.94	3.80	
				B2	R2	Mid-ebb		12.60	17.80	27.70		8.55	105.40		2.02	3.50	
	WM1 WM1 WM1 WM1	Fine	13:15	S1	R1	Mid-ebb	1.00	17.70	27.80	8.30	8.29	102.10	2.42	2.48	3.80		
				S2	R2	Mid-ebb		17.80	27.70	8.36		102.80	2.46		4.00		
				M1	R1	Mid-ebb		10.50	17.80	27.70		8.23	101.30		2.66	4.20	
				M2	R2	Mid-ebb		10.50	17.70	27.70		8.26	101.60		2.60	4.00	
				B1	R1	Mid-ebb		20.00	17.70	27.80		8.22	101.20		2.36	3.80	
				B2	R2	Mid-ebb		20.00	17.60	27.80		8.17	100.50		2.40	3.80	
	WM2 WM2 WM2 WM2	Fine	14:37	S1	R1	Mid-ebb	1.00	18.00	27.70	8.57	8.57	105.50	3.03	3.14	4.40		
				S2	R2	Mid-ebb		18.00	27.70	8.50		104.60	2.97		4.50		
				M1	R1	Mid-ebb		5.15	17.90	27.70		8.62	106.50		3.22	5.00	
				M2	R2	Mid-ebb		5.15	17.90	27.80		8.59	106.10		3.14	4.80	
				B1	R1	Mid-ebb		9.30	17.70	27.60		8.72	107.50		3.27	5.00	
				B2	R2	Mid-ebb		9.30	17.70	27.70		8.67	106.90		3.19	5.20	
	WM3 WM3 WM3 WM3	Fine	14:56	S1	R1	Mid-ebb	1.00	18.00	27.80	8.38	8.39	103.10	3.26	3.20	4.60		
				S2	R2	Mid-ebb		17.90	27.70	8.31		102.30	3.34		4.80		
				M1	R1	Mid-ebb		5.20	17.90	27.70		8.47	104.60		3.07	4.60	
				M2	R2	Mid-ebb		5.20	17.90	27.80		8.41	103.80		3.12	4.60	
				B1	R1	Mid-ebb		19.40	17.80	27.70		8.56	105.40		3.18	4.80	
				B2	R2	Mid-ebb		19.40	17.80	27.60		8.53	105.00		3.22	4.80	
	WM4 WM4 WM4 WM4	Fine	15:18	S1	R1	Mid-ebb	1.00	18.00	27.60	8.42	8.40	103.90	2.42	2.54	3.40		
				S2	R2	Mid-ebb		18.00	27.60	8.46		104.50	2.49		3.60		
				M1	R1	Mid-ebb		7.00	17.70	27.70		8.34	102.80		2.52	4.00	