

Contract No. HY/2011/03

**Hong Kong-Zhuhai-Macao Bridge Hong Kong Link Road
Section between Scenic Hill and Hong Kong Boundary Crossing
Facilities**

Monthly EM&A Report No.16 (January 2014)

17 February 2014

Revision 1

Main Contractor



Designer

ATKINS



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Executive Summary

The Hong Kong-Zhuhai-Macao Bridge (HZMB) Hong Kong Link Road (HKLR) serves to connect the HZMB Main Bridge at the Hong Kong Special Administrative Region (HKSAR) Boundary and the HZMB Hong Kong Boundary Crossing Facilities (HKBCF) located at the north eastern waters of the Hong Kong International Airport (HKIA).

The HKLR project has been separated into two contracts. They are Contract No. HY/2011/03 Hong Kong-Zhuhai-Macao Bridge Hong Kong Link Road-Section between Scenic Hill and Hong Kong Boundary Crossing Facilities (hereafter referred to as the Contract) and Contract No. HY/2011/09 Hong Kong-Zhuhai-Macao Bridge Hong Kong Link Road-Section between HKSAR Boundary and Scenic Hill.

China State Construction Engineering (Hong Kong) Ltd. was awarded by Highways Department as the Contractor to undertake the construction works of Contract No. HY/2011/03. The main works of the Contract include land tunnel at Scenic Hill, tunnel underneath Airport Road and Airport Express Line, reclamation and tunnel to the east coast of the Airport Island, at-grade road connecting to the HKBCF and highway works of the HKBCF within the Airport Island and in the vicinity of the HKLR reclamation. The Contract is part of the HKLR Project and HKBCF Project, these projects are considered to be "Designated Projects", under Schedule 2 of the Environmental Impact Assessment (EIA) Ordinance (Cap 499) and Environmental Impact Assessment (EIA) Reports (Register No. AEIAR-144/2009 and AEIAR-145/2009) were prepared for the Project. The current Environmental Permit (EP) EP-352/2009/C for HKLR and EP-353/2009/G for HKBCF were issued on 5 September 2013 and 6 August 2013, respectively. These documents are available through the EIA Ordinance Register. The construction phase of Contract was commenced on 17 October 2012.

BMT Asia Pacific Limited has been appointed by the Contractor to implement the Environmental Monitoring & Audit (EM&A) programme for the Contract in accordance with the Updated EM&A Manual for HKLR (Version 1.0) and will be providing environmental team services to the Contract.

This is the sixteenth Monthly EM&A report for the Contract which summaries the monitoring results and audit findings of the EM&A programme during the reporting period from 1 January to 31 January 2014.

Environmental Monitoring and Audit Progress

The monthly EM&A programme was undertaken in accordance with the Updated EM&A Manual for HKLR (Version 1.0). A summary of the monitoring activities in this reporting month is listed below:

1-hr TSP Monitoring	3, 9, 15, 21, 27 and 30 January 2014
24-hr TSP Monitoring at AMS 5	2, 9, 14, 20 and 29 January 2014
24-hr TSP Monitoring at AMS 6	2, 8, 14, 20, 24 and 29 January 2014
Noise Monitoring	9, 15, 21 and 30 January 2014
Water Quality Monitoring	1, 3, 6, 8, 10, 13, 15, 17, 20, 22, 24, 27 and 29 January 2014
Chinese White Dolphin Monitoring	7, 9, 21 and 23 January 2014
Site Inspection	8, 15, 22 and 28 January 2014

Due to interruption of electricity supply to high volume sampler at AMS5 during the sampling period, the 24hr- dust monitoring result on 8 January 2014 was considered invalid. 24 hrs dust monitoring was rescheduled on 9 January 2014.

Due to malfunction of high volume sampler at AMS5 on 24 January 2014, the 24 hrs dust monitoring was cancelled on 24 January 2014. After repairing the HVS, it resumed normal on 29 January 2014.

Due to unfavourable weather on 6 January 2014, the dolphin survey was rescheduled from 6 and 8 January 2014 to 7 and 9 January 2014.

Due to the boat arrangement problem, the dolphin monitoring was rescheduled from 20 January 2014 on 21 January 2014.

Due to Chinese New Year, the water quality monitoring on 31 January 2014 was rescheduled to 1 February 2014.

Breaches of Action and Limit Levels

A summary of environmental exceedances for this reporting month is as follows:

Environmental Monitoring	Parameters	Action Level (AL)	Limit Level (LL)
Air Quality	1-hr TSP	0	0
	24-hr TSP	2	0
Noise	L _{eq} (30 min)	0	0
Water Quality	Suspended solids level (SS)	4	0
	Turbidity level	0	0
	Dissolved oxygen level (DO)	0	0

Four Action Level exceedances of suspended solid level were recorded on 3, 6 and 10 January 2014. According to the information provided by the Contractor, marine construction activities were carried out within silt curtain as recommended in the EIA Report. There were no specific activities recorded during the monitoring period that would cause any significant impacts on monitoring results. Therefore, all exceedances were considered as non-contract related.

Two Action Level exceedances of 24-hr TSP were recorded at station AMS6 on 8 and 20 January 2014. The general weather conditions at Tung Chung were foggy and haze during the dust sampling period on 8 and 20 January 2014. The Air Quality Health Index (AQHI) recorded by EPD at the Tung Chung station during the sampling time ranged from 3 (low) to 9 (very high) on 8 January 2014 and ranged from 5 (moderate) to 10 (very high) on 20 January 2014. Therefore, it was considered that the exceedances were not related to the construction activities of the Contract and were caused by poor weather condition.

Complaint Log

A summary of environmental complaints for this reporting month is as follows:

Environmental Complaint No.	Date of Complaint Received	Description of Environmental Complaints
COM-2014-046	16 January 2014	Air Quality
COM-2014-048	18 January 2014	Other - Blackish mud

Notifications of Summons and Prosecutions

There were no notifications of summons or prosecutions received during this reporting month.

Reporting Changes

This report has been developed in compliance with the reporting requirements for the subsequent EM&A reports as required by the Updated EM&A Manual for HKLR (Version 1.0).

The proposal for the change of Action Level and Limit Level for suspended solid and turbidity was approved by EPD on 25 March 2013.

The revised Event and Action Plan for dolphin Monitoring approved by EPD on 6 May 2013.

The original monitoring station at IS(Mf)9 (Coordinate- East:813273, North 818850) was observed inside the perimeter silt curtain on 1 July 2013, as such the original impact water quality monitoring location at IS(Mf)9 was temporarily shifted outside the silt curtain. The new co-ordinates of station IS(Mf)9 are 813226E and 818708N since 1 July 2013.

Future Key Issues

The future key issues include potential noise, air quality, water quality and ecological impacts and waste management arising from the following construction activities to be undertaken in the upcoming month:

- Dismantling/trimming of Temporary 40mm Stone Platform for Construction of Seawall at Portion X;
- Stone Column Installation at Portion X;
- Filling Works behind Stone Platform at Portion X;
- Band Drains Installation at Portion X;
- Temporary Stone Platform Construction at Portion X;
- Temporary diversion of existing box culvert at Portion X;
- Piling works at Portion X;
- Works for Diversion of Airport Road and Kwo Lo Wan Road at Kwo Lo Wan / Airport Road;
- Pre-grouting and Pipe Piling Works for AEL Access Shafts at Airport Express Line;
- Utilities Detection at Kwo Lo Wan / Airport Road / Airport Express Line;
- Establishment of Site Access at Kwo Lo Wan / Airport Road / Airport Express Line;
- Access Shaft Construction for Tunnel at Portion Y;
- Utility Culvert Excavation at Portion Y;
- Pipe Piling works for Depressed Roundabout at Portion Y;
- Tree Transplanting at East Coast Road;
- Slope Protection / Stabilization (Soil Nailing Works) at West Portal;
- Pipe Roofing Installation and Excavation for Tunnel SHT at West Portal;
- Transformer room construction at West Portal;
- Installation of blast door at West Portal; and
- Mechanical breaking for 1st 50m of SHT tunnel at West Portal.

1 Introduction

1.1 Basic Project Information

- 1.1.1 The Hong Kong-Zhuhai-Macao Bridge (HZMB) Hong Kong Link Road (HKLR) serves to connect the HZMB Main Bridge at the Hong Kong Special Administrative Region (HKSAR) Boundary and the HZMB Hong Kong Boundary Crossing Facilities (HKBCF) located at the north eastern waters of the Hong Kong International Airport (HKIA).
- 1.1.2 The HKLR project has been separated into two contracts. They are Contract No. HY/2011/03 Hong Kong-Zhuhai-Macao Bridge Hong Kong Link Road-Section between Scenic Hill and Hong Kong Boundary Crossing Facilities (hereafter referred to as the Contract) and Contract No. HY/2011/09 Hong Kong-Zhuhai-Macao Bridge Hong Kong Link Road-Section between HKSAR Boundary and Scenic Hill.
- 1.1.3 China State Construction Engineering (Hong Kong) Ltd. was awarded by Highways Department (HyD) as the Contractor to undertake the construction works of Contract No. HY/2011/03. The Contract is part of the HKLR Project and HKBCF Project, these projects are considered to be “Designated Projects”, under Schedule 2 of the Environmental Impact Assessment (EIA) Ordinance (Cap 499) and Environmental Impact Assessment (EIA) Reports (Register No. AEIAR-144/2009 and AEIAR-145/2009) were prepared for the Project. The current Environmental Permit (EP) EP-352/2009/C for HKLR and EP-353/2009/G for HKBCF were issued on 5 September 2013 and 6 August 2013, respectively. These documents are available through the EIA Ordinance Register. The construction phase of Contract was commenced on 17 October 2012. **Figure 1.1** shows the project site boundary. The works areas are shown in **Appendix N**.
- 1.1.4 The Contract includes the following key aspects:
- New reclamation along the east coast of the approximately 23 hectares.
 - Tunnel of Scenic Hill (Tunnel SHT) from Scenic Hill to the new reclamation, of approximately 1km in length with three (3) lanes for the east bound carriageway heading to the HKBCF and four (4) lanes for the westbound carriageway heading to the HZMB Main Bridge.
 - An abutment of the viaduct portion of the HKLR at the west portal of Tunnel SHT and associated road works at the west portal of Tunnel SHT.
 - An at grade road on the new reclamation along the east coast of the HKIA to connect with the HKBCF, of approximately 1.6 km along dual 3-lane carriageway with hard shoulder for each bound.
 - Road links between the HKBCF and the HKIA including new roads and the modification of existing roads at the HKIA, involving viaducts, at grade roads and a Tunnel HAT.
 - A highway operation and maintenance area (HMA) located on the new reclamation, south of the Dragonair Headquarters Building, including the construction of buildings, connection roads and other associated facilities.
 - Associated civil, structural, building, geotechnical, marine, environmental protection, landscaping, drainage and sewerage, tunnel and highway electrical and mechanical works, together with the installation of street lightings, traffic aids and sign gantries, water mains and fire hydrants, provision of facilities for installation of traffic control and surveillance system (TCSS), reprovisioning works of affected existing facilities, implementation of transplanting, compensatory planting and protection of existing trees, and implementation of an environmental monitoring and audit (EM&A) program.
- 1.1.5 This is the sixteenth Monthly Environmental Monitoring and Audit (EM&A) report for the Contract which summaries the monitoring results and audit findings of the EM&A programme during the reporting period from 1 to 31 January 2014.

- 1.1.6 BMT Asia Pacific Limited has been appointed by the Contractor to implement the EM&A programme for the Contract in accordance with the Updated EM&A Manual for HKLR (Version 1.0) for HKLR and will be providing environmental team services to the Contract. ENVIRON Hong Kong Ltd. was employed by HyD as the Independent Environmental Checker (IEC) and Environmental Project Office (ENPO) for the Project. The project organization with regard to the environmental works is as follows.

1.2 Project Organisation

- 1.2.1 The project organization structure and lines of communication with respect to the on-site environmental management structure is shown in **Appendix A**. The key personnel contact names and numbers are summarized in **Table 1.1**.

Table 1.1 Contact Information of Key Personnel

Party	Position	Name	Telephone	Fax
Supervising Officer's Representative (Ove Arup & Partners Hong Kong Limited)	(Chief Resident Engineer, CRE)	Robert Antony Evans	3968 0801	2109 1882
Environmental Project Office / Independent Environmental Checker (Environ Hong Kong Limited)	Environmental Project Office Leader	Y. H. Hui	3465 2888	3465 2899
	Independent Environmental Checker	Antony Wong	3465 2888	3465 2899
Contractor (China State Construction Engineering (Hong Kong) Ltd)	Project Manager	S. Y. Tse	3968 7002	2109 2588
	Environmental Officer	Federick Wong	3968 7117	2109 2588
Environmental Team (BMT Asia Pacific)	Environmental Team Leader	Claudine Lee	2241 9847	2815 3377
24 hours complaint hotline	---	---	5699 5730	---

1.3 Construction Programme

- 1.3.1 A copy of the Contractor's construction programme is provided in **Appendix B**.

1.4 Construction Works Undertaken During the Reporting Month

- 1.4.1 A summary of the construction activities undertaken during this reporting month is shown in **Table 1.2**.



Table 1.2 Construction Activities During Reporting Month

Description of Activities	Site Area
Dismantling/trimming of temporary 40mm stone platform for construction of seawall	Portion X
Stone column installation	Portion X
Filling works behind stone platform	Portion X
Temporary stone platform construction	Portion X
Band drains Installation	Portion X
Piling works	Portion X
Slope protection/ stabilization (soil nailing works)	West Portal
Pipe Roofing Installation and Excavation for Tunnel SHT	West Portal
Works for diversion of Airport Road and Kwo Lo Wan Road	Kwo Lo Wan / Airport Road
Pre-grouting and pipe piling works for AEL access shafts	Airport Express Line
Utilities detection	Kwo Lo Wan/ Airport Road/ Airport Express Line
Establishment of site access	Kwo Lo Wan/ Airport Road/ Airport Express Line
Works for east access shaft	Kwo Lo Wan/ Airport Road/ Airport Express Line
Access shaft construction for SHT & HAT	Portion Y
Utility culvert excavation	Portion Y
Pipe piling works for Depressed Roundabout	Portion Y

2 Air Quality Monitoring

2.1 Monitoring Requirements

- 2.1.1 In accordance with the Contract Specific EM&A Manual, baseline 1-hour and 24-hour TSP levels at two air quality monitoring stations were established. Impact 1-hour TSP monitoring was conducted for at least three times every 6 days, while impact 24-hour TSP monitoring was carried out for at least once every 6 days. The Action and Limit Level for 1-hr TSP and 24-hr TSP are provided in **Table 2.1** and **Table 2.2**, respectively.

Table 2.1 Action and Limit Levels for 1-hour TSP

Monitoring Station	Action Level, $\mu\text{g}/\text{m}^3$	Limit Level, $\mu\text{g}/\text{m}^3$
AMS 5 – Ma Wan Chung Village (Tung Chung)	352	500
AMS 6 – Dragonair / CNAC (Group) Building (HKIA)	360	

Table 2.2 Action and Limit Levels for 24-hour TSP

Monitoring Station	Action Level, $\mu\text{g}/\text{m}^3$	Limit Level, $\mu\text{g}/\text{m}^3$
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AMS 5 – Ma Wan Chung Village (Tung Chung)	164	260
AMS 6 – Dragonair / CNAC (Group) Building (HKIA)	173	260

2.2 Monitoring Equipment

2.2.1 24-hour TSP air quality monitoring was performed using High Volume Sampler (HVS) located at each designated monitoring station. The HVS meets all the requirements of the Contract Specific EM&A Manual. Portable direct reading dust meters were used to carry out the 1-hour TSP monitoring. Brand and model of the equipment is given in **Table 2.3**.

Table 2.3 Air Quality Monitoring Equipment

Equipment	Brand and Model
Portable direct reading dust meter (1-hour TSP)	Sibata Digital Dust Monitor (Model No. LD-3B)
High Volume Sampler (24-hour TSP)	Tisch Environmental Mass Flow Controlled Total Suspended Particulate (TSP) High Volume Air Sampler (Model No. TE-5170)

2.3 Monitoring Locations

2.3.1 Monitoring locations AMS5 and AMS6 were set up at the proposed locations in accordance with Contract Specific EM&A Manual.

2.3.2 **Figure 2.1** shows the locations of monitoring stations. **Table 2.4** describes the details of the monitoring stations.

Table 2.4 Locations of Impact Air Quality Monitoring Stations

Monitoring Station	Location
AMS5	Ma Wan Chung Village (Tung Chung)
AMS6	Dragonair / CNAC (Group) Building (HKIA)

2.4 Monitoring Parameters, Frequency and Duration

2.4.1 **Table 2.5** summarizes the monitoring parameters, frequency and duration of impact TSP monitoring.

Table 2.5 Air Quality Monitoring Parameters, Frequency and Duration

Parameter	Frequency and Duration
1-hour TSP	Three times every 6 days while the highest dust impact was expected
24-hour TSP	Once every 6 days

2.5 Monitoring Methodology

2.5.1 24-hour TSP Monitoring

- (a) The HVS was installed in the vicinity of the air sensitive receivers. The following criteria were considered in the installation of the HVS.
- (i) A horizontal platform with appropriate support to secure the sampler against gusty wind was provided.
 - (ii) The distance between the HVS and any obstacles, such as buildings, was at least twice the height that the obstacle protrudes above the HVS.
 - (iii) A minimum of 2 meters separation from walls, parapets and penthouse for rooftop sampler.
 - (iv) No furnace or incinerator flues nearby.
 - (v) Airflow around the sampler was unrestricted.
 - (vi) Permission was obtained to set up the samplers and access to the monitoring stations.
 - (vii) A secured supply of electricity was obtained to operate the samplers.
 - (viii) The sampler was located more than 20 meters from any dripline.
 - (ix) Any wire fence and gate, required to protect the sampler, did not obstruct the monitoring process.
 - (x) Flow control accuracy was kept within $\pm 2.5\%$ deviation over 24-hour sampling period.
- (b) Preparation of Filter Papers
- (i) Glass fibre filters, G810 were labelled and sufficient filters that were clean and without pinholes were selected.
 - (ii) All filters were equilibrated in the conditioning environment for 24 hours before weighing. The conditioning environment temperature was around 25 °C and not variable by more than ± 3 °C; the relative humidity (RH) was < 50% and not variable by more than $\pm 5\%$. A convenient working RH was 40%.
 - (iii) All filter papers were prepared and analysed by ALS Technichem (HK) Pty Ltd., which is a HOKLAS accredited laboratory and has comprehensive quality assurance and quality control programmes.
- (c) Field Monitoring
- (i) The power supply was checked to ensure the HVS works properly.
 - (ii) The filter holder and the area surrounding the filter were cleaned.
 - (iii) The filter holder was removed by loosening the four bolts and a new filter, with stamped number upward, on a supporting screen was aligned carefully.
 - (iv) The filter was properly aligned on the screen so that the gasket formed an airtight seal on the outer edges of the filter.
 - (v) The swing bolts were fastened to hold the filter holder down to the frame. The pressure applied was sufficient to avoid air leakage at the edges.
 - (vi) Then the shelter lid was closed and was secured with the aluminium strip.
 - (vii) The HVS was warmed-up for about 5 minutes to establish run-temperature conditions.
 - (viii) A new flow rate record sheet was set into the flow recorder.
 - (ix) On site temperature and atmospheric pressure readings were taken and the flow rate of the HVS was checked and adjusted at around 1.1 m³/min, and complied with the range specified in the Updated EM&A Manual for HKLR (Version 1.0) (i.e. 0.6-1.7 m³/min).
 - (x) The programmable digital timer was set for a sampling period of 24 hours, and the starting time, weather condition and the filter number were recorded.



- (xi) The initial elapsed time was recorded.
 - (xii) At the end of sampling, on site temperature and atmospheric pressure readings were taken and the final flow rate of the HVS was checked and recorded.
 - (xiii) The final elapsed time was recorded.
 - (xiv) The sampled filter was removed carefully and folded in half length so that only surfaces with collected particulate matter were in contact.
 - (xv) It was then placed in a clean plastic envelope and sealed.
 - (xvi) All monitoring information was recorded on a standard data sheet.
 - (xvii) Filters were then sent to ALS Technichem (HK) Pty Ltd. for analysis.
- (d) Maintenance and Calibration
- (i) The HVS and its accessories were maintained in good working condition, such as replacing motor brushes routinely and checking electrical wiring to ensure a continuous power supply.
 - (ii) 5-point calibration of the HVS was conducted using TE-5025A Calibration Kit prior to the commencement of baseline monitoring. Bi-monthly 5-point calibration of the HVS will be carried out during impact monitoring.
 - (iii) Calibration certificate of the HVSs are provided in **Appendix C**.

2.5.2 1-hour TSP Monitoring

(a) Measuring Procedures

The measuring procedures of the 1-hour dust meter were in accordance with the Manufacturer's Instruction Manual as follows:-

- (i) Turn the power on.
 - (ii) Close the air collecting opening cover.
 - (iii) Push the "TIME SETTING" switch to [BG].
 - (iv) Push "START/STOP" switch to perform background measurement for 6 seconds.
 - (v) Turn the knob at SENSI ADJ position to insert the light scattering plate.
 - (vi) Leave the equipment for 1 minute upon "SPAN CHECK" is indicated in the display.
 - (vii) Push "START/STOP" switch to perform automatic sensitivity adjustment. This measurement takes 1 minute.
 - (viii) Pull out the knob and return it to MEASURE position.
 - (ix) Push the "TIME SETTING" switch the time set in the display to 3 hours.
 - (x) Lower down the air collection opening cover.
 - (xi) Push "START/STOP" switch to start measurement.
- (b) Maintenance and Calibration
- (i) The 1-hour TSP meter was calibrated at 1-year intervals against a Tisch Environmental Mass Flow Controlled Total Suspended Particulate (TSP) High Volume Air Sampler. Calibration certificates of the Laser Dust Monitors are provided in **Appendix C**.

2.6 Monitoring Schedule for the Reporting Month

- 2.6.1 The schedule for air quality monitoring in January 2014 is provided in **Appendix D**. Due to interruption of electricity supply to high volume sampler (HVS) at AMS5 during the sampling

period, the 24hr- dust monitoring result on 8 January 2014 was considered invalid. 24 hrs dust monitoring was rescheduled on 9 January 2014. Due to malfunction of high volume sampler on 24 January 2014, the 24 hrs dust monitoring was cancelled on 24 January 2014. After repairing the HVS, it resumed normal on 29 January 2014.

2.7 Monitoring Results

2.7.1 The monitoring results for 1-hour TSP and 24-hour TSP are summarized in **Tables 2.6** and **2.7** respectively. Detailed impact air quality monitoring results and relevant graphical plots are presented in **Appendix E**.

Table 2.6 Summary of 1-hour TSP Monitoring Results During the Reporting Month

Monitoring Station	Average ($\mu\text{g}/\text{m}^3$)	Range ($\mu\text{g}/\text{m}^3$)	Action Level ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)
AMS5	73	18 – 154	352	500
AMS6	93	53 – 284	360	500

Table 2.7 Summary of 24-hour TSP Monitoring Results During the Reporting Month

Monitoring Station	Average ($\mu\text{g}/\text{m}^3$)	Range ($\mu\text{g}/\text{m}^3$)	Action Level ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)
AMS5	93	42 – 161	164	260
AMS6	142	86 – 213	173	260

2.7.2 Two Action Level exceedances of 24-hr TSP were recorded at station AMS6 on 8 and 20 January 2014.. The general weather conditions at Tung Chung were foggy and haze during the dust sampling period on 8 and 20 January 2014. The Air Quality Health Index (AQHI) recorded by EPD at the Tung Chung station during the sampling time ranged from 3 (low) to 9 (very high) on 8 January 2014 and ranged from 5 (moderate) to 10 (very high) on 20 January 2014. Therefore, it was considered that the exceedances were not related to the construction activities of the Contract and were caused by poor weather. The event action plan is annexed in **Appendix F**.

2.7.3 There were technical problems of the on-site weather station from 17 January 2014 to 18 January 2014 and 27 January 2014 to 28 January 2014. As the wind data could not be monitored, the wind data for this period were reference to the wind data of Hong Kong Observatory's Chek Lap Kok weather station. The wind data obtained from the on-site weather station during the reporting month is shown in **Appendix G**.

3 Noise Monitoring

3.1 Monitoring Requirements

- 3.1.1 In accordance with the Contract Specific EM&A Manual, impact noise monitoring was conducted for at least once per week during the construction phase of the Project. The Action and Limit level of the noise monitoring is provided in **Table 3.1**.

Table 3.1 Action and Limit Levels for Noise during Construction Period

Monitoring Station	Time Period	Action Level	Limit Level
NMS5 - Ma Wan Chung Village (Ma Wan Chung Resident Association) (Tung Chung)	0700-1900 hours on normal weekdays	When one documented complaint is received	75 dB(A)

3.2 Monitoring Equipment

- 3.2.1 Noise monitoring was performed using sound level meters at each designated monitoring station. The sound level meters deployed comply with the International Electrotechnical Commission Publications (IEC) 651:1979 (Type 1) and 804:1985 (Type 1) specifications. Acoustic calibrator was deployed to check the sound level meters at a known sound pressure level. Brand and model of the equipment are given in **Table 3.2**.

Table 3.2 Noise Monitoring Equipment

Equipment	Brand and Model
Integrated Sound Level Meter	B&K 2238
Acoustic Calibrator	B&K 4231

3.3 Monitoring Locations

- 3.3.1 Monitoring location NMS5 was set up at the proposed locations in accordance with Contract Specific EM&A Manual.
- 3.3.2 **Figure 2.1** shows the locations of monitoring stations. **Table 3.3** describes the details of the monitoring stations.

Table 3.3 Locations of Impact Noise Monitoring Stations

Monitoring Station	Location
NMS5	Ma Wan Chung Village (Ma Wan Chung Resident Association) (Tung Chung)

3.4 Monitoring Parameters, Frequency and Duration

- 3.4.1 **Table 3.4** summarizes the monitoring parameters, frequency and duration of impact noise monitoring.

Table 3.4 Noise Monitoring Parameters, Frequency and Duration

Parameter	Frequency and Duration
30-mins measurement at each monitoring station between 0700 and 1900 on normal weekdays (Monday to Saturday). L_{eq} , L_{10} and L_{90} would be recorded.	At least once per week

3.5 Monitoring Methodology

3.5.1 Monitoring Procedure

- (a) The sound level meter was set on a tripod at a height of 1.2 m above the podium for free-field measurements at NMS5. A correction of +3 dB(A) shall be made to the free field measurements.
- (b) The battery condition was checked to ensure the correct functioning of the meter.
- (c) Parameters such as frequency weighting, the time weighting and the measurement time were set as follows:-
 - (i) frequency weighting: A
 - (ii) time weighting: Fast
 - (iii) time measurement: $L_{eq(30\text{-minutes})}$ during non-restricted hours i.e. 07:00 – 1900 on normal weekdays;
- (e) Prior to and after each noise measurement, the meter was calibrated using the acoustic calibrator for 94.0 dB(A) at 1000 Hz. If the difference in the calibration level before and after measurement was more than 1.0 dB(A), the measurement would be considered invalid and repeat of noise measurement would be required after re-calibration or repair of the equipment.
- (f) During the monitoring period, the L_{eq} , L_{10} and L_{90} were recorded. In addition, site conditions and noise sources were recorded on a standard record sheet.
- (g) Noise measurement was paused during periods of high intrusive noise (e.g. dog barking, helicopter noise) if possible. Observations were recorded when intrusive noise was unavoidable.
- (h) Noise monitoring was cancelled in the presence of fog, rain, wind with a steady speed exceeding 5m/s, or wind with gusts exceeding 10m/s. The wind speed shall be checked with a portable wind speed meter capable of measuring the wind speed in m/s.

3.5.2 Maintenance and Calibration

- (a) The microphone head of the sound level meter was cleaned with soft cloth at regular intervals.
- (b) The meter and calibrator were sent to the supplier or HOKLAS laboratory to check and calibrate at yearly intervals.
- (c) Calibration certificates of the sound level meters and acoustic calibrators are provided in **Appendix C**.

3.6 Monitoring Schedule for the Reporting Month

- 3.6.1 The schedule for construction noise monitoring in January 2014 is provided in **Appendix D**.

3.7 Monitoring Results

3.7.1 The monitoring results for construction noise are summarized in **Table 3.5** and the monitoring results and relevant graphical plots are provided in **Appendix E**.

Table 3.5 Summary of Construction Noise Monitoring Results During the Reporting Month

Monitoring Station	Average L_{eq} (30 mins), dB(A)	Range of L_{eq} (30 mins), dB(A)	Limit Level L_{eq} (30 mins), dB(A)
NMS5	59	59 – 61	75

*A correction of +3dB(A) facade correction was included.

- 3.7.2 There were no Action and Limit Level exceedances for noise during daytime on normal weekdays of the reporting month.
- 3.7.3 Major noise sources during the noise monitoring included construction activities of the Contract and nearby traffic noise.
- 3.7.4 The event action plan is annexed in **Appendix F**.

4 Water Quality Monitoring

4.1 Monitoring Requirements

- 4.1.1 Impact water quality monitoring was carried out to ensure that any deterioration of water quality was detected, and that timely action was taken to rectify the situation. For impact water quality monitoring, measurements were taken in accordance with the Contract Specific EM&A Manual. **Table 4.1** shows the established Action/Limit Levels for the environmental monitoring works. The ET proposed to amend the Action Level and Limit Level for turbidity and suspended solid and EPD approved ET's proposal on 25 March 2013. Therefore, Action Level and Limit Level for the Contract have been changed since 25 March 2013.
- 4.1.2 The original and revised Action Level and Limit Level for turbidity and suspended solid are shown in **Table 4.1**.

Table 4.1 Action and Limit Levels for Water Quality

Parameter (unit)	Water Depth	Action Level	Limit Level
Dissolved Oxygen (mg/L) (surface, middle and bottom)	Surface and Middle	5.0	4.2 except 5 for Fish Culture Zone
	Bottom	4.7	3.6
Turbidity (NTU)	Depth average	27.5 or 120% of upstream control station's turbidity at the same tide of the same day; The action level has been amended to "27.5 and 120% of upstream control station's turbidity at the same tide of the same day" since 25 March 2013.	47.0 or 130% of turbidity at the upstream control station at the same tide of same day; The limit level has been amended to "47.0 and 130% of turbidity at the upstream control station at the same tide of same day" since 25 March 2013.
Suspended Solid (SS) (mg/L)	Depth average	23.5 or 120% of upstream control station's SS at the same tide of the same day; The action level has been amended to "23.5 and 120% of upstream control station's SS at the same tide of the same day" since 25 March 2013.	34.4 or 130% of SS at the upstream control station at the same tide of same day and 10mg/L for Water Services Department Seawater Intakes; The limit level has been amended to "34.4 and 130% of SS at the upstream control station at the same tide of same day and 10mg/L for Water Services Department Seawater Intakes" since 25 March 2013

Notes:

- (1) Depth-averaged is calculated by taking the arithmetic means of reading of all three depths.
- (2) For DO, non-compliance of the water quality limit occurs when monitoring result is lower than the limit.
- (3) For SS & turbidity non-compliance of the water quality limits occur when monitoring result is higher

than the limits.

- (4) The change to the Action and limit Levels for Water Quality Monitoring for the EM&A works was approved by EPD on 25 March 2013.

4.2 Monitoring Equipment

4.2.1 **Table 4.2** summarises the equipment used in the impact water quality monitoring programme.

Table 4.2 Water Quality Monitoring Equipment

Equipment	Brand and Model
DO and Temperature Meter, Salinity Meter, Turbidimeter and pH Meter	YSI Model 6820 V2-M, 650
Positioning Equipment	DGPS – KODEN : KGP913MkII, KBG3
Water Depth Detector	Layin Associates: SM-5 & SM5A
Water Sampler	Wildlife Supply Company : 5487-10

4.3 Monitoring Parameters, Frequency and Duration

4.3.1 **Table 4.3** summarises the monitoring parameters, frequency and monitoring depths of impact water quality monitoring as required in the Contract Specific EM&A Manual.

Table 4.3 Impact Water Quality Monitoring Parameters and Frequency

Monitoring Stations	Parameter, unit	Frequency	No. of depth
Impact Stations: IS5, IS(Mf)6, IS7, IS8, IS(Mf)9 & IS10, Control/Far Field Stations: CS2 & CS(Mf)5, Sensitive Receiver Stations: SR3, SR4, SR5, SR10A & SR10B	<ul style="list-style-type: none"> • Depth, m • Temperature, °C • Salinity, ppt • Dissolved Oxygen (DO), mg/L • DO Saturation, % • Turbidity, NTU • pH • Suspended Solids (SS), mg/L 	Three times per week during mid-ebb and mid-flood tides (within ± 1.75 hour of the predicted time)	3 (1 m below water surface, mid-depth and 1 m above sea bed, except where the water depth is less than 6 m, in which case the mid-depth station may be omitted. Should the water depth be less than 3 m, only the mid-depth station will be monitored).

4.4 Monitoring Locations

4.4.1 In accordance with the Contract Specific EM&A Manual, thirteen stations (6 Impact Stations, 5 Sensitive Receiver Stations and 2 Control Stations) were designated for impact water quality monitoring. The six Impact Stations (IS) were chosen on the basis of their proximity to the reclamation and thus the greatest potential for water quality impacts, the five Sensitive Receiver Stations (SR) were chosen as they are close to the key sensitive receives and the two Control Stations (CS) were chosen to facilitate comparison of the water quality of the IS stations with less influence by the Project/ ambient water quality conditions.

4.4.2 The locations of these monitoring stations are summarized in **Table 4.4** and shown in **Figure 2.1**.

Table 4.4 Impact Water Quality Monitoring Stations

Monitoring Stations	Description	Coordinates	
		Easting	Northing
IS5	Impact Station (Close to HKLR construction site)	811579	817106
IS(Mf)6	Impact Station (Close to HKLR construction site)	812101	817873
IS7	Impact Station (Close to HKBCF construction site)	812244	818777
IS8	Impact Station (Close to HKBCF construction site)	814251	818412
IS(Mf)9	Impact Station (Close to HKBCF construction site)	813273	818850
IS(Mf)9	Impact Station (Close to HKBCF construction site)	813226	818708
IS10	Impact Station (Close to HKBCF construction site)	812577	820670
SR3	Sensitive receivers (San Tau SSSI)	810525	816456
SR4	Sensitive receivers (Tai Ho Inlet)	814760	817867
SR5	Sensitive receivers (Artificial Reef In NE Airport)	811489	820455
SR10A	Sensitive receivers (Ma Wan Fish Culture Zone)	823741	823495
SR10B	Sensitive receivers (Ma Wan Fish Culture Zone)	823686	823213
CS2	Control Station (Mid-Ebb)	805849	818780
CS(Mf)5	Control Station (Mid-Flood)	817990	821129

Remark:

The original monitoring station at IS(Mf)9 (Coordinate- East:813273, North 818850) was observed inside the perimeter silt curtain on 1 July 2013, as such the original impact water quality monitoring location at IS(Mf)9 was temporarily shifted outside the silt curtain. The new co-ordinates of station IS(Mf)9 are 813226E and 818708N since 1 July 2013.

4.5 Monitoring Methodology

4.5.1 Instrumentation

- (a) The in-situ water quality parameters including dissolved oxygen, temperature, salinity and turbidity, pH were measured by multi-parameter meters.

4.5.2 Operating/Analytical Procedures

- (a) Digital Differential Global Positioning Systems (DGPS) were used to ensure that the correct location was selected prior to sample collection.
- (b) Portable, battery-operated echo sounders were used for the determination of water depth at each designated monitoring station.
- (c) All in-situ measurements were taken at 3 water depths, 1 m below water surface, mid-depth and 1 m above sea bed, except where the water depth was less than 6 m, in which case the mid-depth station was omitted. Should the water depth be less than 3 m, only the mid-depth station was monitored.
- (d) At each measurement/sampling depth, two consecutive in-situ monitoring (DO concentration and saturation, temperature, turbidity, pH, salinity) and water sample for SS. The probes were retrieved out of the water after the first measurement and then re-deployed for the second measurement. Where the difference in the value between the first and second readings of DO or turbidity parameters was more than 25% of the value of the first reading, the reading was discarded and further readings were taken.
- (e) Duplicate samples from each independent sampling event were collected for SS measurement. Water samples were collected using the water samplers and the samples were stored in high-density polythene bottles. Water samples collected were

well-mixed in the water sampler prior to pre-rinsing and transferring to sample bottles. Sample bottles were pre-rinsed with the same water samples. The sample bottles were then be packed in cool-boxes (cooled at 4°C without being frozen), and delivered to ALS Technichem (HK) Pty Ltd. for the analysis of suspended solids concentrations. The laboratory determination work would be started within 24 hours after collection of the water samples. ALS Technichem (HK) Pty Ltd. is a HOKLAS accredited laboratory and has comprehensive quality assurance and quality control programmes.

- (f) The analysis method and detection limit for SS is shown in **Table 4.5**.

Table 4.5 Laboratory Analysis for Suspended Solids

Parameters	Instrumentation	Analytical Method	Detection Limit
Suspended Solid (SS)	Weighting	APHA 2540-D	0.5mg/L

- (g) Other relevant data were recorded, including monitoring location / position, time, water depth, tidal stages, weather conditions and any special phenomena or work underway at the construction site in the field log sheet for information.

4.5.3 Maintenance and Calibrations

- (a) All in situ monitoring instruments would be calibrated by ALS Technichem (HK) Pty Ltd. before use and at 3-monthly intervals throughout all stages of the water quality monitoring programme. The procedures of performance check of sonde and testing results are provided in **Appendix C**.

4.6 Monitoring Schedule for the Reporting Month

- 4.6.1 The schedule for impact water quality monitoring in January 2014 is provided in **Appendix D**.

4.7 Monitoring Results

- 4.7.1 Impact water quality monitoring was conducted at all designated monitoring stations during the reporting month. Impact water quality monitoring results and relevant graphical plots are provided in **Appendix E**.

- 4.7.2 Exceedances were recorded for suspended solid level during the reporting month. Number of exceedances recorded during the reporting month at each impact station are summarised in **Table 4.6**.

Table 4.6 Summary of Water Quality Exceedances

Station	Exceedance Level	DO (S&M)		DO (Bottom)		Turbidity		SS		Total number of exceedances	
		Ebb	Flood	Ebb	Flood	Ebb	Flood	Ebb	Flood	Ebb	Flood
IS5	Action Level	--	--	--	--	--	--	--	10 Jan 2014	0	1
	Limit Level	--	--	--	--	--	--	--	--	0	0
IS(Mf)6	Action Level	--	--	--	--	--	--	--	--	0	0
	Limit Level	--	--	--	--	--	--	--	--	0	0
IS7	Action Level	--	--	--	--	--	--	--	--	0	0
	Limit Level	--	--	--	--	--	--	--	--	0	0
IS8	Action Level	--	--	--	--	--	--	--	--	0	0

Station	Exceedance Level	DO (S&M)		DO (Bottom)		Turbidity		SS		Total number of exceedances	
		Ebb	Flood	Ebb	Flood	Ebb	Flood	Ebb	Flood	Ebb	Flood
	Limit Level	--	--	--	--	--	--	--	--	0	0
IS(Mf)9	Action Level	--	--	--	--	--	--	--	6 Jan 2014	0	1
	Limit Level	--	--	--	--	--	--	--	--	0	0
IS10	Action Level	--	--	--	--	--	--	--	--	0	0
	Limit Level	--	--	--	--	--	--	--	--	0	0
SR3	Action Level	--	--	--	--	--	--	--	3 Jan 2014	0	1
	Limit Level	--	--	--	--	--	--	--	--	0	0
SR4	Action Level	--	--	--	--	--	--	--	--	0	0
	Limit Level	--	--	--	--	--	--	--	--	0	0
SR5	Action Level	--	--	--	--	--	--	--	3 Jan 2014	0	1
	Limit Level	--	--	--	--	--	--	--	--	0	0
SR10A	Action Level	--	--	--	--	--	--	--	--	0	0
	Limit Level	--	--	--	--	--	--	--	--	0	0
SR10B	Action Level	--	--	--	--	--	--	--	--	0	0
	Limit Level	--	--	--	--	--	--	--	--	0	0
Total	Action	0	0	0	0	0	0	0	4	4**	
	Limit	0	0	0	0	0	0	0	0	0**	

Notes:

S: Surface;

M: Mid-depth;

** The total exceedances

- 4.7.3 During the reporting month, four Action Level (AL) exceedances of suspended solid level were recorded.
- 4.7.4 On 3 January 2014, two AL exceedances at stations SR3 and SR5 were recorded during mid-flood tide. According to the information provided by the Contractor, rock filling and sand filling at Zone 1, sand filling, removal of temporary stone platform and stone column works at Zone 2, sand filling and removal of temporary stone platform at Zone 3A were carried out within silt curtain as recommended in the EIA Report.
- 4.7.5 On 6 January 2014, an AL exceedance at station IS(Mf)9 was recorded during mid-flood tide. According to the information provided by the Contractor, sand filling, rock filling and sand pumping at Zone 1, stone column works, levelling of temporary stone platform, removal of temporary stone platform and sand filling at Zone 2, sand filling and removal of temporary stone platform at Zone 3A were carried out within silt curtain as recommended in the EIA Report.
- 4.7.6 On 10 January 2014, an AL exceedance at station IS5 was recorded during mid-flood tide. According to the information provided by the Contractor, sand filling, sand pumping, filling and levelling of stone platform and stone column works at Zone 1, excavation of aggregate for removal of temporary platform at Zone 2, excavation of aggregate for removal of temporary platform and public fill filling at Zone 3A were carried out within silt curtain as recommended in the EIA Report.



- 4.7.7 On 3, 6 and 10 January 2014, there were no specific activities recorded during the monitoring period that would cause any significant impacts on the monitoring results. No leakage of turbid water or any abnormality or malpractice was observed during the sampling exercise. The suspended solid levels were considered to be attributed to other external factors, rather than the contract works. Therefore, all exceedances were considered as non-contract related.
- 4.7.8 Water quality impact sources during the water quality monitoring were the construction activities of the Contract, nearby construction activities by other parties and nearby operating vessels by other parties.
- 4.7.9 The event action plan is annexed in **Appendix F**.

5 Dolphin Monitoring

5.1 Monitoring Requirements

- 5.1.1 Impact dolphin monitoring is required to be conducted by a qualified dolphin specialist team to evaluate whether there have been any effects on the dolphins.
- 5.1.2 The Action Level and Limit Level for dolphin monitoring are shown in **Table 5.1**.

Table 5.1 Action and Limit Levels for Dolphin Monitoring

	North Lantau Social Cluster	
	NEL	NWL
Action Level	STG < 4.2 & ANI < 15.5	STG < 6.9 & ANI < 31.3
Limit Level	(STG < 2.4 & ANI < 8.9) and (STG < 3.9 & ANI < 17.9)	

Remarks:

1. STG means quarterly encounter rate of number of dolphin sightings.
2. ANI means quarterly encounter rate of total number of dolphins.
3. For North Lantau Social Cluster, AL will be trigger if either NEL **or** NWL fall below the criteria; LL will be triggered if both NEL **and** NWL fall below the criteria.

- 5.1.3 The revised Event and Action Plan for dolphin Monitoring was approved by EPD in 6 May 2013. The revised Event and Action Plan is annexed in **Appendix F**.

5.2 Monitoring Methodology

Vessel-based Line-transect Survey

- 5.2.1 According to the requirements of the Updated EM&A Manual for HKLR (Version 1.0), dolphin monitoring programme should cover all transect lines in NEL and NWL survey areas (see **Figure 1 of Appendix H**) twice per month. The co-ordinates of all transect lines are shown in **Table 5.2**.

Table 5.2 Co-ordinates of Transect Lines

Line No.		Easting	Northing		Line No.	Easting	Northing
1	Start Point	804671	814577		13	Start Point	816506 819480
1	End Point	804671	831404		13	End Point	816506 824859
2	Start Point	805475	815457		14	Start Point	817537 820220
2	End Point	805477	826654		14	End Point	817537 824613
3	Start Point	806464	819435		15	Start Point	818568 820735
3	End Point	806464	822911		15	End Point	818568 824433
4	Start Point	807518	819771		16	Start Point	819532 821420
4	End Point	807518	829230		16	End Point	819532 824209
5	Start Point	808504	820220		17	Start Point	820451 822125
5	End Point	808504	828602		17	End Point	820451 823671
6	Start Point	809490	820466		18	Start Point	821504 822371
6	End Point	809490	825352		18	End Point	821504 823761
7	Start Point	810499	820690		19	Start Point	822513 823268
7	End Point	810499	824613		19	End Point	822513 824321



Line No.	Easting	Northing	Line No.	Easting	Northing		
8	Start Point	811508	820847	20	Start Point	823477	823402
8	End Point	811508	824254	20	End Point	823477	824613
9	Start Point	812516	820892	21	Start Point	805476	827081
9	End Point	812516	824254	21	End Point	805476	830562
10	Start Point	813525	820872	22	Start Point	806464	824033
10	End Point	813525	824657	22	End Point	806464	829598
11	Start Point	814556	818449	23	Start Point	814559	821739
11	End Point	814556	820992	23	End Point	814559	824768
12	Start Point	815542	818807				
12	End Point	815542	824882				

- 5.2.2 The survey team used standard line-transect methods (Buckland et al. 2001) to conduct the systematic vessel surveys, and followed the same technique of data collection that has been adopted over the last 16 years of marine mammal monitoring surveys in Hong Kong developed by HKCRP (see Hung 2012). For each monitoring vessel survey, a 15-m inboard vessel with an open upper deck (about 4.5 m above water surface) was used to make observations from the flying bridge area.
- 5.2.3 Two experienced observers (a data recorder and a primary observer) made up the on-effort survey team, and the survey vessel transited different transect lines at a constant speed of 13-15 km per hour. The data recorder searched with unaided eyes and filled out the datasheets, while the primary observer searched for dolphins and porpoises continuously through 7 x 50 Steiner marine binoculars. Both observers searched the sea ahead of the vessel, between 270° and 90° (in relation to the bow, which is defined as 0°). One to two additional experienced observers were available on the boat to work in shift (i.e. rotate every 30 minutes) in order to minimize fatigue of the survey team members. All observers were experienced in small cetacean survey techniques and identifying local cetacean species.
- 5.2.4 During on-effort survey periods, the survey team recorded effort data including time, position (latitude and longitude), weather conditions (Beaufort sea state and visibility), and distance travelled in each series (a continuous period of search effort) with the assistance of a handheld GPS (*Garmin eTrex Legend*).
- 5.2.5 Data including time, position and vessel speed were also automatically and continuously logged by handheld GPS throughout the entire survey for subsequent review.
- 5.2.6 When dolphins were sighted, the survey team would end the survey effort, and immediately record the initial sighting distance and angle of the dolphin group from the survey vessel, as well as the sighting time and position. Then the research vessel was diverted from its course to approach the animals for species identification, group size estimation, assessment of group composition, and behavioural observations. The perpendicular distance (PSD) of the dolphin group to the transect line was later calculated from the initial sighting distance and angle.
- 5.2.7 Survey effort being conducted along the parallel transect lines that were perpendicular to the coastlines (as indicated in **Figure 1 of Appendix H**) was labeled as “primary” survey effort, while the survey effort conducted along the connecting lines between parallel lines was labeled as “secondary” survey effort. According to HKCRP long-term dolphin monitoring data, encounter rates of Chinese white dolphins deduced from effort and sighting data collected along primary and secondary lines were similar in NEL and NWL survey areas. Therefore, both primary and secondary survey effort were presented as on-effort survey effort in this report.
- 5.2.8 Encounter rates of Chinese White Dolphins (number of on-effort sightings per 100 km of survey effort and number of dolphins from all on-effort sightings per 100 km of survey effort)

were calculated in NEL and NWL survey areas in relation to the amount of survey effort conducted during each month of monitoring survey. Only data collected under Beaufort 3 or below condition would be used for encounter rate analysis. Dolphin encounter rates were calculated using primary survey effort alone, as well as the combined survey effort from both primary and secondary lines.

Photo-identification Work

- 5.2.9 When a group of Chinese White Dolphins were sighted during the line-transect survey, the survey team would end effort and approach the group slowly from the side and behind to take photographs of them. Every attempt was made to photograph every dolphin in the group, and even photograph both sides of the dolphins, since the colouration and markings on both sides may not be symmetrical.
- 5.2.10 A professional digital cameras (Canon EOS 7D and 60D models), equipped with long telephoto lenses (100-400 mm zoom), were available on board for researchers to take sharp, close-up photographs of dolphins as they surfaced. The images were shot at the highest available resolution and stored on Compact Flash memory cards for downloading onto a computer.
- 5.2.11 All digital images taken in the field were first examined, and those containing potentially identifiable individuals were sorted out. These photographs would then be examined in greater detail, and were carefully compared to the existing Chinese White Dolphin photo-identification catalogue maintained by HKCRP since 1995.
- 5.2.12 Chinese White Dolphins can be identified by their natural markings, such as nicks, cuts, scars and deformities on their dorsal fin and body, and their unique spotting patterns were also used as secondary identifying features (Jefferson 2000).
- 5.2.13 All photographs of each individual were then compiled and arranged in chronological order, with data including the date and location first identified (initial sighting), re-sightings, associated dolphins, distinctive features, and age classes entered into a computer database. Detailed information on all identified individuals will be further presented as appendix in the quarterly EM&A report.

5.3 Monitoring Results

Vessel-based Line-transect Survey

- 5.3.1 During the month of January 2014, two sets of systematic line-transect vessel surveys were conducted the 7th, 9th, 21st and 23rd, to cover all transect lines in NWL and NEL survey areas twice. The survey routes of each survey day are presented in **Figure 2-5 of Appendix H**. Notably, the second line in NEL survey area just to the east of HKBCF (i.e. line #11) has been partially blocked by the silt curtain that surrounded the HKBCF reclamation site since August 2013, and the research vessel has been traveling around the edge of the expanded silt curtain for that section of the transect line rather than on a straight line.
- 5.3.2 From these surveys a total of 294.51 km of survey effort was collected, with 98.6% of the total survey effort being conducted under favourable weather conditions (i.e. Beaufort Sea State 3 or below with good visibility) (**Annex I of Appendix H**). Among the two areas, 115.72 km and 178.79 km of survey effort were collected from NEL and NWL survey areas respectively. In addition, the total survey effort conducted on primary lines was 211.86 km, while the effort on secondary lines was 82.65km.
- 5.3.3 During the two sets of monitoring surveys in January 2014, a total of 19 groups of 78 Chinese White Dolphins were sighted (**Annex II of Appendix H**). All except one sighting were made in NWL during the two sets of surveys in January, with another sighting with nine animals made along a secondary line in NEL. All except four sightings were made on primary lines during on-effort search, and none of the dolphin groups was associated with an operating fishing vessel.
- 5.3.4 Distribution of these dolphin sightings made in January 2014 is shown in **Figure 6 of Appendix H**. The majority of these sightings were made around Lung Kwu Chau and near



Black Point, while a few dolphin groups were also sighted around Sha Chau and near Pillar Point. The lone sighting made in Northeast Lantau was located near Siu Ho Wan along the north shoreline of Lantau.

- 5.3.5 None of these 19 sightings was made in the proximity of the HKLR03 and HKBCF reclamation sites as well as the HKLR09 bridge alignment (**Figure 6 of Appendix H**). However, the lone sighting made just outside of Siu Ho Wan was only less than two kilometers from the TM-CLKL southern viaduct.
- 5.3.6 During January's surveys, encounter rates of Chinese white dolphins deduced from the survey effort and on-effort sighting data made under favorable conditions (Beaufort 3 or below) are shown in **Table 5.3** and **Table 5.4**.

Table 5.3 Individual Survey Event Encounter Rates

		Encounter rate (STG) (no. of on-effort dolphin sightings per 100 km of survey effort)	Encounter rate (ANI) (no. of dolphins from all on-effort sightings per 100 km of survey effort)
		Primary Lines Only	Primary Lines Only
NEL	Set 1: Jan 7 th /9 th	0.0	0.0
	Set 2: Jan 21 st /23 rd	0.0	0.0
NWL	Set 1: Jan 7 th /9 th	10.0	40.0
	Set 2: Jan 21 st /23 rd	11.8	50.3

Remarks:

- Dolphin Encounter Rates Deduced from the Two Sets of Surveys (Two Surveys in Each Set) in January 2014 in Northeast (NEL) and Northwest Lantau (NWL).

Table 5.4 Monthly Average Encounter Rates

	Encounter rate (STG) (no. of on-effort dolphin sightings per 100 km of survey effort)		Encounter rate (ANI) (no. of dolphins from all on-effort sightings per 100 km of survey effort)	
	Primary Lines Only	Both Primary and Secondary Lines	Primary Lines Only	Both Primary and Secondary Lines
Northeast Lantau	0.0	0.9	0.0	8.0
Northwest Lantau	10.9	10.1	45.1	38.9

Remarks:

- Monthly Average Dolphin Encounter Rates (Sightings Per 100 km of Survey Effort) from All Four Surveys Conducted in January 2014 on Primary Lines only as well as Both Primary Lines and Secondary Lines in Northeast (NEL) and Northwest Lantau (NWL).

- 5.3.7 The average group size of Chinese White Dolphins in January 2014 was 4.11 individuals per group, which was very similar to the previous month of dolphin monitoring in December 2013. Most dolphin groups were composed of only 1-4 animals, while several larger groups sighted around Lung Kwu Chau and near Siu Ho Wan were composed of 9-10 animals per group.

Photo-identification Work

- 5.3.8 Forty-seven individual dolphins were identified during January's surveys. More than half of these individuals were only sighted once during the month, but nine individuals were sighted twice, while three individuals (NL48, NL139 and NL272) were sighted 3-5 times (**Annex III and IV of Appendix H**).
- 5.3.9 Notably, among the seven individuals identified in the lone sighting made in NEL, all of them were also sighted in NWL during the same month. Most of these individuals were also part of a small group of dolphins that have been infrequently sighted in NEL in the past 12 months.

5.3.10 Several well-recognized females, including NL33, NL98, NL123 and NL221, were accompanied with their calves during their re-sightings. These mother-calf pairs have also been sighted regularly in previous months of HKLR03 dolphin monitoring surveys.

Conclusion

5.3.11 During this month of dolphin monitoring, no adverse impact from the activities of this construction project on Chinese White Dolphins was noticeable from general observations.

5.3.12 Due to monthly variation in dolphin occurrence within the study area, it would be more appropriate to draw conclusion on whether any impacts on dolphins have been detected related to the construction activities of this project in the quarterly EM&A report, where comparison on distribution, group size and encounter rates of dolphins between the quarterly impact monitoring period (December 2013 – February 2014) and baseline monitoring period (3-month period) will be made.

5.4 Reference

- 5.4.1 Buckland, S. T., Anderson, D. R., Burnham, K. P., Laake, J. L., Borchers, D. L., and Thomas, L. 2001. Introduction to distance sampling: estimating abundance of biological populations. Oxford University Press, London.
- 5.4.2 Hung, S. K. 2012. Monitoring of Marine Mammals in Hong Kong waters: final report (2011-12). An unpublished report submitted to the Agriculture, Fisheries and Conservation Department, 171 pp.
- 5.4.3 Jefferson, T. A. 2000. Population biology of the Indo-Pacific hump-backed dolphin in Hong Kong waters. Wildlife Monographs 144:1-65.
- 5.4.4 Hung, S. K. 2013. Monitoring of Marine Mammals in Hong Kong waters: final report (2012-13). An unpublished report submitted to the Agriculture, Fisheries and Conservation Department, 168 pp.

6 ENVIRONMENTAL SITE INSPECTION AND AUDIT

6.1 Site Inspection

6.1.1 Site Inspections were carried out on a weekly basis to monitor the implementation of proper environmental pollution control and mitigation measures for the Project. During the reporting month, four site inspections were carried out on 8, 15, 22 and 28 January 2014.

6.1.2 Particular observations during the site inspections are described below.

8 January 2014

- (a) Drain holes on drip tray for chemical containers were not sealed and oil leakage was observed at N1. The drain hole on the drip tray was sealed by plastic stopper at N1 to prevent oil leakage. (This observation was found on 31 December 2013 and closed on 8 January 2014.)
- (b) Haul road was observed dry at N4. The Contractor sprayed water regularly for unpaved road at N4. (This observation was found on 31 December 2013 and closed on 8 January 2014.)
- (c) Stockpile of sandy materials at S15 was not covered by impervious sheeting or sprayed with water. The stockpile of sandy materials was removed at S15. (This observation was found on 31 December 2013 and closed on 8 January 2014.)
- (d) Fill materials were found on storage platform near barge Tak Ming. The fill materials were removed from the storage platform near barge Tak Ming. (This observation was closed on 15 January 2014.)
- (e) More than 20 bags of cement were not covered properly at N1. The cement bags were covered entirely by impervious sheeting at N1. (This observation was closed on 15 January 2014.)
- (f) Fill materials were found on the passage way and had not provided canvas at the gap between vessel when loading materials at S7. The fill materials were removed on the passage way and a canvas was used to cover the gap between vessel at S7. (This observation was closed on 15 January 2014.)
- (g) Stagnant water was found inside a drip tray with a generator at S8. Stagnant water was removed from the drip tray at S8. (This observation was closed on 15 January 2014.)
- (h) Construction materials were placed inside a drip tray with a generator at S8. The construction materials were removed from the drip tray at S8. (This observation was closed on 15 January 2014.)
- (i) Oil leakage was found inside a wheel washing bay at S8. The oil leakage inside wheel washing bay was cleaned up at S8. (This observation was closed on 15 January 2014.)
- (j) Oil containers were found without drip trays at S11. The oil containers were placed inside a drip tray at S11. (This observation was closed on 15 January 2014.)
- (k) Chemical containers were found without drip trays at WA03. The chemical containers were removed from WA03. (This observation was closed on 15 January 2014.)

15 January 2014

- (a) Unpaved road was observed dry at S16. Water spray was provided by Contractor on the unpaved road at S16. (This observation was closed on 22 January 2014.)
- (b) Dusty materials were not covered entirely by impervious sheeting or sprayed with water at WA4. The dusty materials were covered properly at WA4. (This observation was closed on 22 January 2014.)



- (c) Dust emissions area generated from drilling works at N13. Water spray was provided when power driven drilling activity was taken at N13. (This observation was closed on 22 January 2014.)
- (d) More than 20 bags of cement were not covered properly at S23. Cements storage area was covered properly at S23. (This observation was closed on 22 January 2014.)
- (e) Oil containers were found without drip tray at N4. The oil containers were removed by Contractor at N4. (This observation was closed on 22 January 2014.)
- (f) Chemical containers were found without drip trays at N13. Drip trays were provided for chemical containers at N13. (This observation was closed on 22 January 2014.)

22 January 2014

- (a) Oil containers were found to be without drip tray at S11. The oil containers were removed at S11. (This observation was closed on 28 January 2014.)
- (b) More than 20 bags of cement were not covered properly at S8/S9. The cement bags were removed at S8/S9. (This observation was closed on 28 January 2014.)
- (c) Sand stockpile was found to be dry and not covered properly at N1. The sand stockpile was covered properly at N1. (This observation was closed on 28 January 2014.)
- (d) Sand stockpile was found to be dry and not covered properly at S8/S9. The sand stockpile was covered at S8/S9. (This observation was closed on 28 January 2014.)
- (e) A gap was found between each silt curtains at Portion X. The contractor provided maintenance for the silt curtains and there was no gap between silt curtains at Portion X. (This observation was closed on 28 January 2014.)
- (f) A drip tray for chemical containers was overloaded at S19. The contractor provided sufficient drip tray for chemical containers. (This observation was closed on 28 January 2014.)

28 January 2014

- (a) Stagnant water was found at N13. The Contractor was reminded to remove stagnant water to avoid mosquito breeding.

The Contractor has rectified most of the observations as identified during environmental site inspections during the reporting month. Follow-up actions for outstanding observations will be inspected during the next site inspections.

6.2 Advice on the Solid and Liquid Waste Management Status

- 6.2.1 The Contractor submitted application form for registration as a chemical waste producer for the Project. Sufficient numbers of receptacles were available for general refuse collection and sorting.
- 6.2.2 Monthly summary of waste flow table is detailed in **Appendix I**.
- 6.2.3 The Contractor was reminded that chemical waste containers should be properly treated and stored temporarily in designated chemical waste storage area on site in accordance with the Code of Practise on the Packaging, Labelling and Storage of Chemical Wastes.

6.3 Environmental Licenses and Permits

- 6.3.1 The valid environmental licenses and permits during the reporting month are summarized in **Appendix K**.

6.4 Implementation Status of Environmental Mitigation Measures

- 6.4.1 In response to the site audit findings, the Contractors carried out corrective actions.

- 6.4.2 A summary of the Implementation Schedule of Environmental Mitigation Measures (EMIS) is presented in **Appendix L**. Most of the necessary mitigation measures were implemented properly.
- 6.4.3 Regular marine travel route for marine vessels were implemented properly in accordance to the submitted plan and relevant records were kept properly.
- 6.4.4 Dolphin Watching Plan was implemented during the reporting month. No dolphins were observed. The relevant records were kept properly.

6.5 Summary of Exceedances of the Environmental Quality Performance Limit

- 6.5.1 For 1-hour TSP, no Action and Limit Level exceedances were recorded at AMS 5 and AMS 6 during the reporting month.
- 6.5.2 For 24-hour TSP, two Action Level exceedances of 24-hr TSP were recorded at station AMS6 on 8 and 20 January 2014.
- 6.5.3 For construction noise, no Action and Limit Level exceedances were recorded at the monitoring stations during the reporting month.
- 6.5.4 For marine water quality monitoring undertaken during the reporting month, four Action Level exceedances of suspended solid level were recorded on 3, 6 and 10 January 2014. According to the information provided by the Contractor, marine construction activities were carried within silt curtain as recommended in the EIA Report. There were no specific activities recorded during the monitoring period that would cause any significant impacts on monitoring results. Therefore, all exceedances were considered as non-contract related.

6.6 Summary of Complaints, Notification of Summons and Successful Prosecution

- 6.6.1 There were two complaints received during the reporting month. The summary of environmental complaints is presented in **Table 7.1**. The details of cumulative statistics of Environmental Complaints are provided in **Appendix J**.

Table 7.1 A Summary of Environmental Complaints for the Reporting Month

Environmental Complaint No.	Date of Complaint Received	Description of Environmental Complaints
COM-2014-046	16 January 2014	Air Quality
COM-2014-048	18 January 2014	Other: Blackish mud

- 6.6.2 No notification of summons and prosecution was received during the reporting period.
- 6.6.3 Statistics on notifications of summons and successful prosecutions are summarized in **Appendix M**.

7 FUTURE KEY ISSUES

7.1 Construction Programme for the Coming Months

7.1.1 As informed by the Contractor, the major construction activities for February 2014 are summarized in **Table 7.1**.

Table 7.1 Construction Activities for February 2014

Site Area	Description of Activities
Portion X	Dismantling/Trimming of Temporary 40mm Stone Platform for Construction of Seawall
Portion X	Stone Column Installation
Portion X	Filling Works behind Stone Platform
Portion X	Band Drains Installation
Portion X	Temporary Stone Platform Construction
Portion X	Temporary diversion of existing box culvert
Portion X;	Piling works
Kwo Lo Wan / Airport Road	Works for Diversion of Airport Road and Kwo Lo Wan Road
Airport Express Line	Pre-grouting and Pipe Piling Works for AEL Access Shafts
Kwo Lo Wan / Airport Road / Airport Express Line	Utilities Detection
Kwo Lo Wan / Airport Road / Airport Express Line	Establishment of Site Access
Portion Y	Access Shaft Construction for Tunnel
Portion Y	Utility Culvert Excavation
Portion Y	Pipe piling works for Depressed Roundabout
East Coast Road	Tree Transplanting
West Portal	Slope Protection / Stabilization (Soil Nailing Works)
West Portal	Pipe Roofing Installation and Excavation for Tunnel SHT
West Portal	Transformer room construction
West Portal	Installation of blast door
West Portal	Mechanical breaking for 1 st 50m of SHT tunnel

7.2 Environmental Monitoring Scheme for the Coming Month

7.2.1 The tentative schedule for environmental monitoring in February 2014 is provided in **Appendix D**.

8 CONCLUSION

8.1 Conclusions

- 8.1.1 The construction phase and EM&A programme of the Contract commenced on 17 October 2012.

Air Quality

- 8.1.2 For 1-hour TSP, no Action and Limit Level exceedances were recorded at AMS 5 and AMS 6 during the reporting month.
- 8.1.3 For 24-hour TSP, two Action Level exceedances of 24-hr TSP were recorded at station AMS6 on 8 and 20 January 2014.

Noise

- 8.1.4 For construction noise, no Action and Limit Level exceedances were recorded at the monitoring station during the reporting month.

Water Quality

- 8.1.5 For marine water quality monitoring undertaken during the reporting month, four Action Level exceedances of suspended solid level were recorded on 3, 6 and 10 January 2014. According to the information provided by the Contractor, marine construction activities were carried within silt curtain as recommended in the EIA Report. There were no specific activities recorded during the monitoring period that would cause any significant impacts on monitoring results. Therefore, all exceedances were considered as non-contract related.

Dolphin

- 8.1.6 During the January's surveys of the Chinese White Dolphin, no adverse impact from the activities of this construction project on Chinese White Dolphins was noticeable from general observations.
- 8.1.7 Due to monthly variation in dolphin occurrence within the study area, it would be more appropriate to draw conclusion on whether any impacts on dolphins have been detected related to the construction activities of this project in the quarterly EM&A report, where comparison on distribution, group size and encounter rates of dolphins between the quarterly impact monitoring period (December 2013 - February 2014) and baseline monitoring period (3-month period) will be made.

Environmental Site Inspection and Audit

- 8.1.8 Environmental site inspection was carried out on 8, 15, 22 and 28 January 2014. Recommendations on remedial actions were given to the Contractors for the deficiencies identified during the site inspections.
- 8.1.9 There were two complaints received during the reporting month. Complaint investigations were undertaken and it was considered that the complaints were not related to the Contract.
- 8.1.10 No notification of summons and prosecution was received during the reporting period.



路政署
HIGHWAYS DEPARTMENT

港珠澳大橋香港工程管理處
Hong Kong - Zhuhai - Macao Bridge
Hong Kong Project Management Office


Contract No. HY/2011/03 : Hong Kong-Zhuhai-Macao Bridge
Hong Kong Link Road - Section between Scenic Hill
and Hong Kong Boundary Crossing Facilities
16th Monthly EM&A Report

FIGURES



中國建築工程(香港)有限公司
CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LTD.

LEGEND

 Site Boundary of Contract HY/2011/03

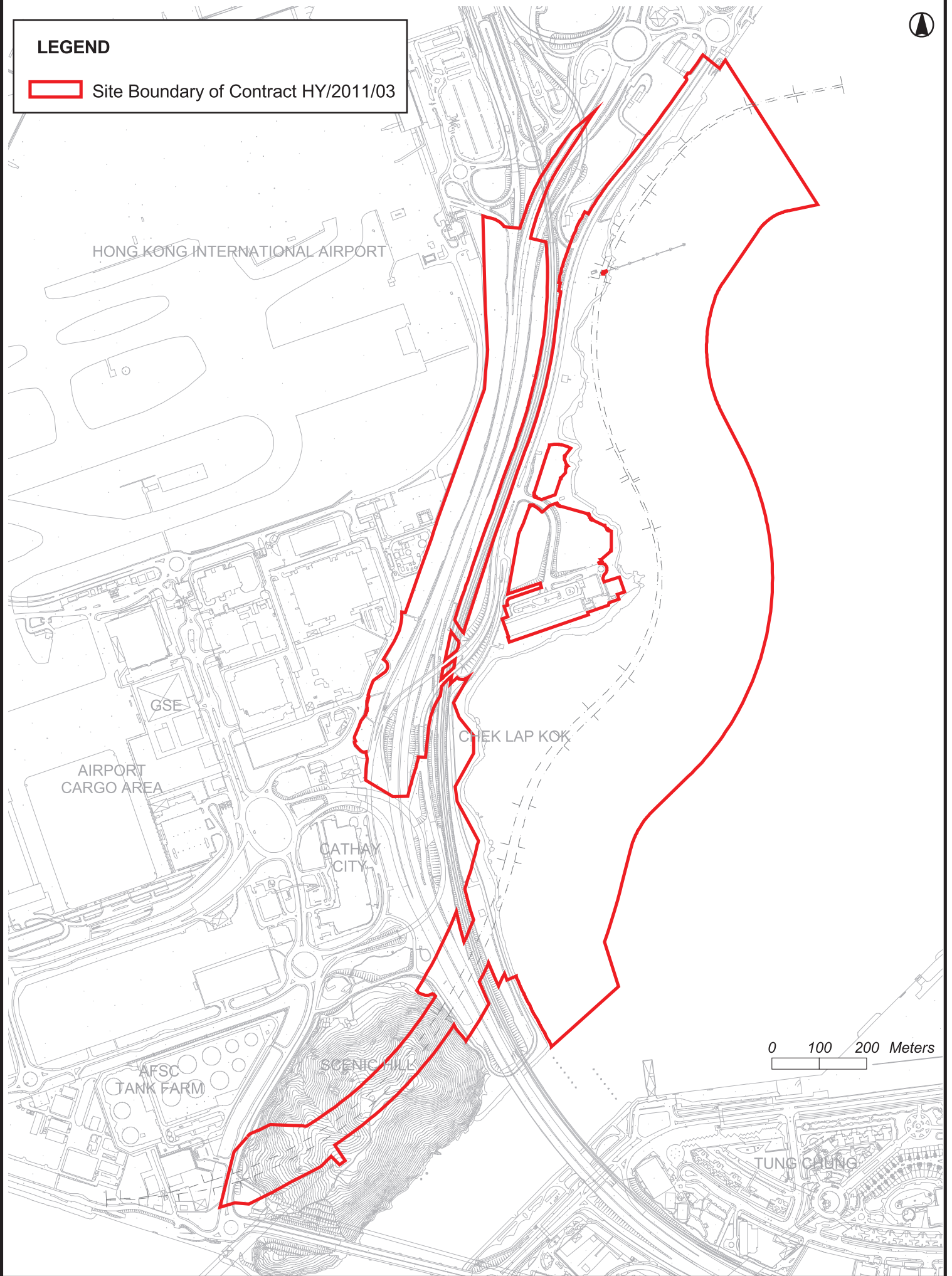
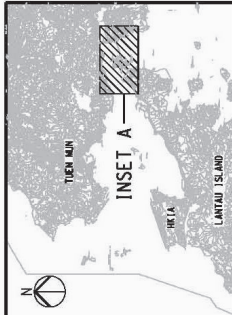


Figure 1.1 Location of the Site



KEY PLAN

NOTES

1. EXACT LOCATIONS OF MONITORING STATIONS ARE SHOWN ON THIS DRAWING. THE CONTRACTOR SHALL COORDINATE WITH THE ENVIRONMENTAL PROJECT OFFICE (EPMO) AND INDEPENDENT ENVIRONMENTAL CHECKER (IEC) AND ENVIRONMENTAL PROJECT OFFICE (EPMO) AND INDEPENDENT ENVIRONMENTAL CHECKER (IEC) TO DETERMINE THE PROPOSED LOCATION OF THE MONITORING STATIONS.
2. THE LOCATION AND EXTENT OF MUDFLAT SURVEY SHOWN ON THIS DRAWING ARE APPROXIMATE ONLY. THE CONTRACTOR AND IEC SHALL DETERMINE AND AGREE THE DETAILS OF THE MUDFLAT SURVEY IN ACCORDANCE WITH THE REQUIREMENTS STIPULATED IN THE EIA REPORTS AND ESM MANUALS.
3. THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS STIPULATED IN THE EIA REPORTS AND ESM MANUALS TO CONDUCT THE ENVIRONMENTAL MONITORING AND AUDIT WORKS.

- LEGEND**
- WORKS BOUNDARY OF CONTRACT (HY2011/03)
 - IS IMPACT STATIONS (WATER QUALITY)
 - CS CONTROL/FIELD STATIONS (WATER QUALITY)
 - SR SENSITIVE RECEIVERS STATIONS (WATER QUALITY)
 - ST STATION FOR SENSITIVITY TEST RESULT (WATER QUALITY)
 - AMS MONITORING STATIONS (AIR QUALITY)
 - NMS MONITORING STATIONS (NOISE)
 - MUDFLAT ECOLOGICAL SAMPLING LOCATION

Rev	Description	AW	By	Date
A	TENDER ADDENDUM ISSUE	AW		11/11

ARUP 威雅納工程顧問
One Arup & Partners Hong Kong Limited

Contract No. and Title
Hong Kong-Zhuhai-Macao Bridge
 Hong Kong Link Road -
 Section Between Scenic Hill and
 Hong Kong Boundary Crossing Facilities

Contract No. HX/2011/03

ENVIRONMENTAL MONITORING STATIONS

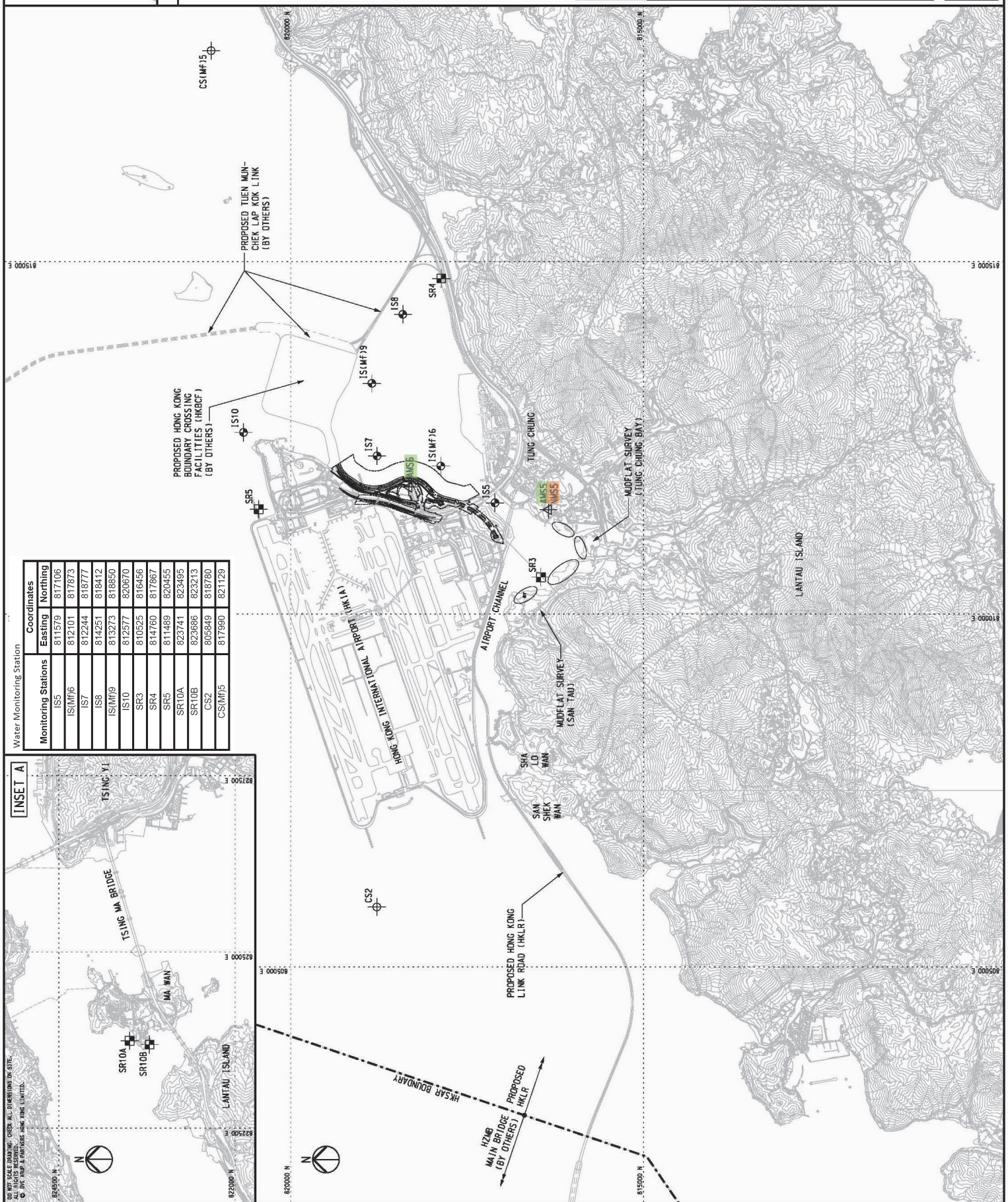
Drawing Title: Figure 2.1

Drawn	Date	Checked	Rev.
Scale	11/21	AS SHOWN	A

APPROVED

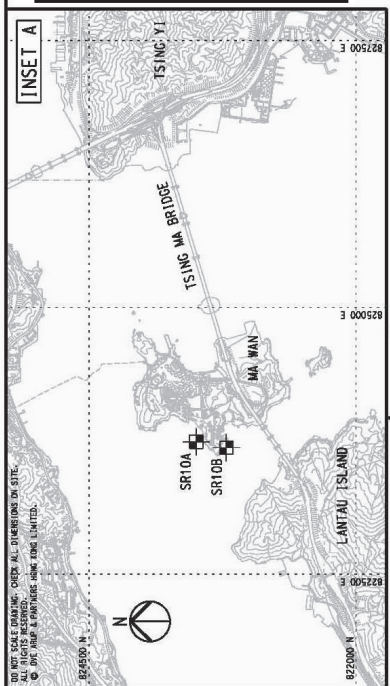
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HONG KONG HIGHWAYS DEPARTMENT
 香港公路局
 Hong Kong-Zhuhai-Macao Bridge
 Hong Kong Project Management Office



Water Monitoring Station

Monitoring Stations	Coordinates	
	Easting	Northing
IS5	811579	817106
IS(MT)6	812101	817873
IS7	812244	818777
IS8	814251	818412
IS(MT)9	813273	818850
IS10	812577	820670
SR3	810525	816456
SR4	814760	817867
SR5	811489	820455
SR10A	823741	823495
SR10B	823686	823213
CS2	805949	818780
CS(MT)5	817980	821129





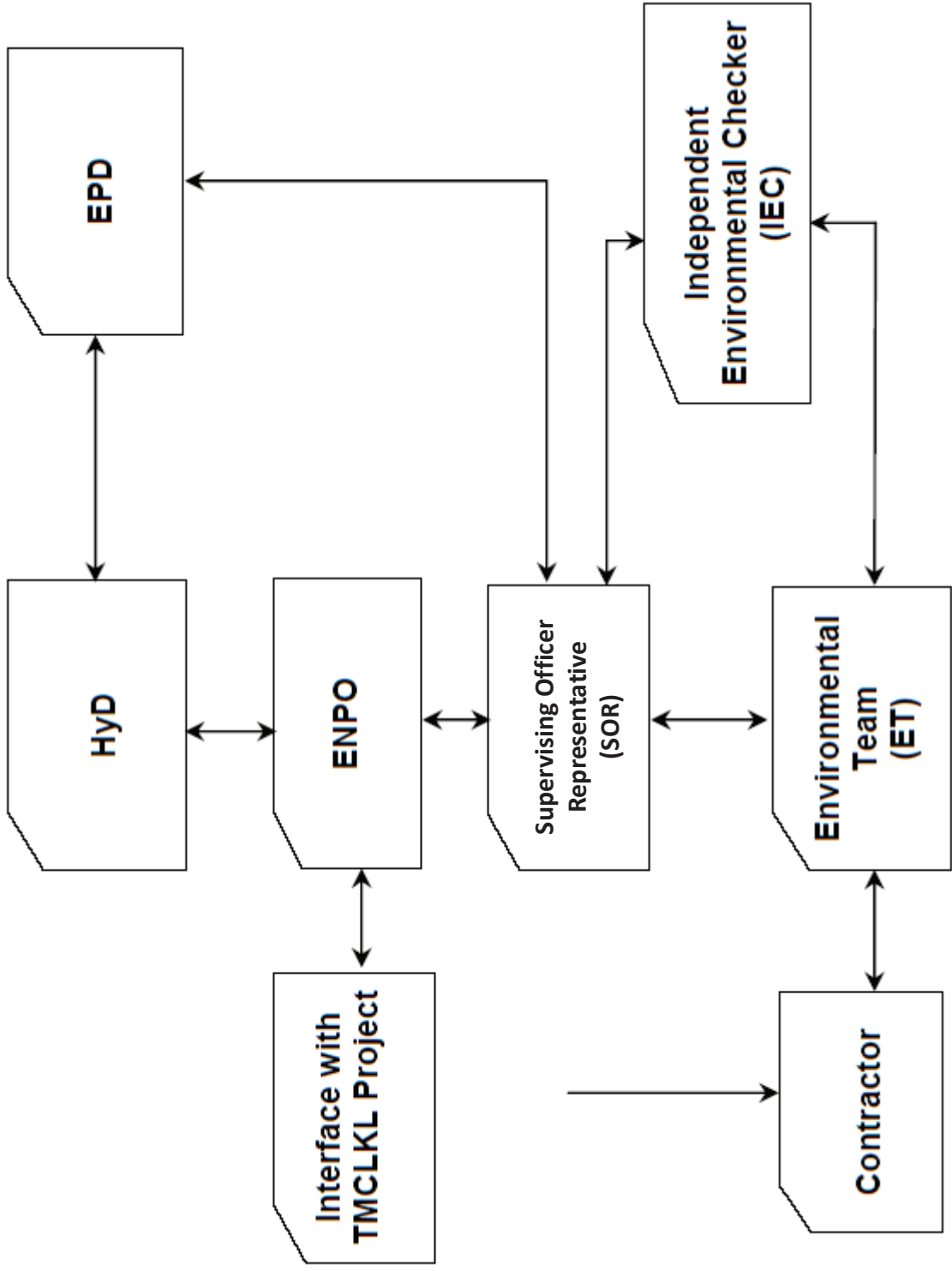
APPENDIX A

Environmental Management Structure



Project Organization for Environmental Works

Line of communication



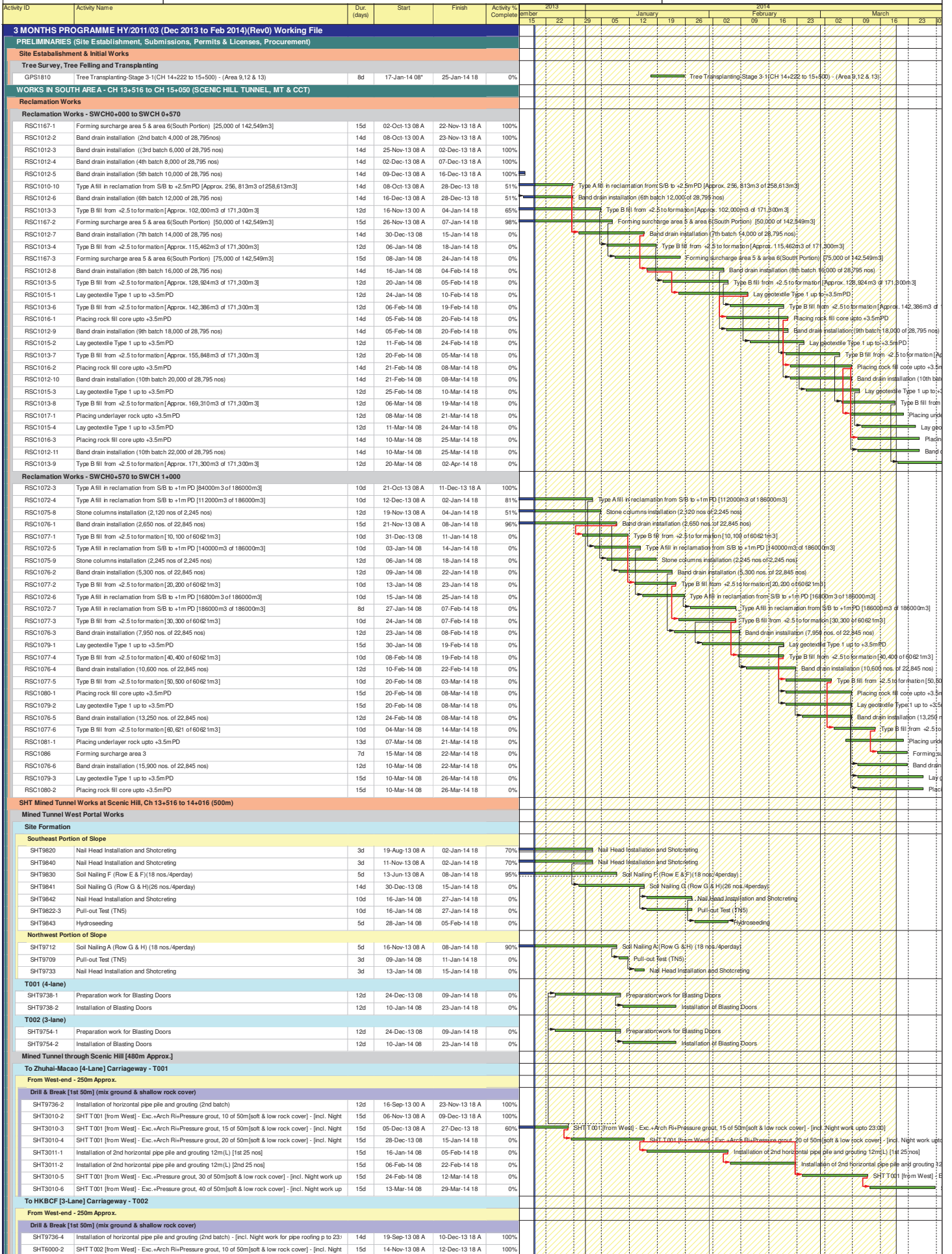


APPENDIX B

Construction Programme



(January 2014 to March 2014)



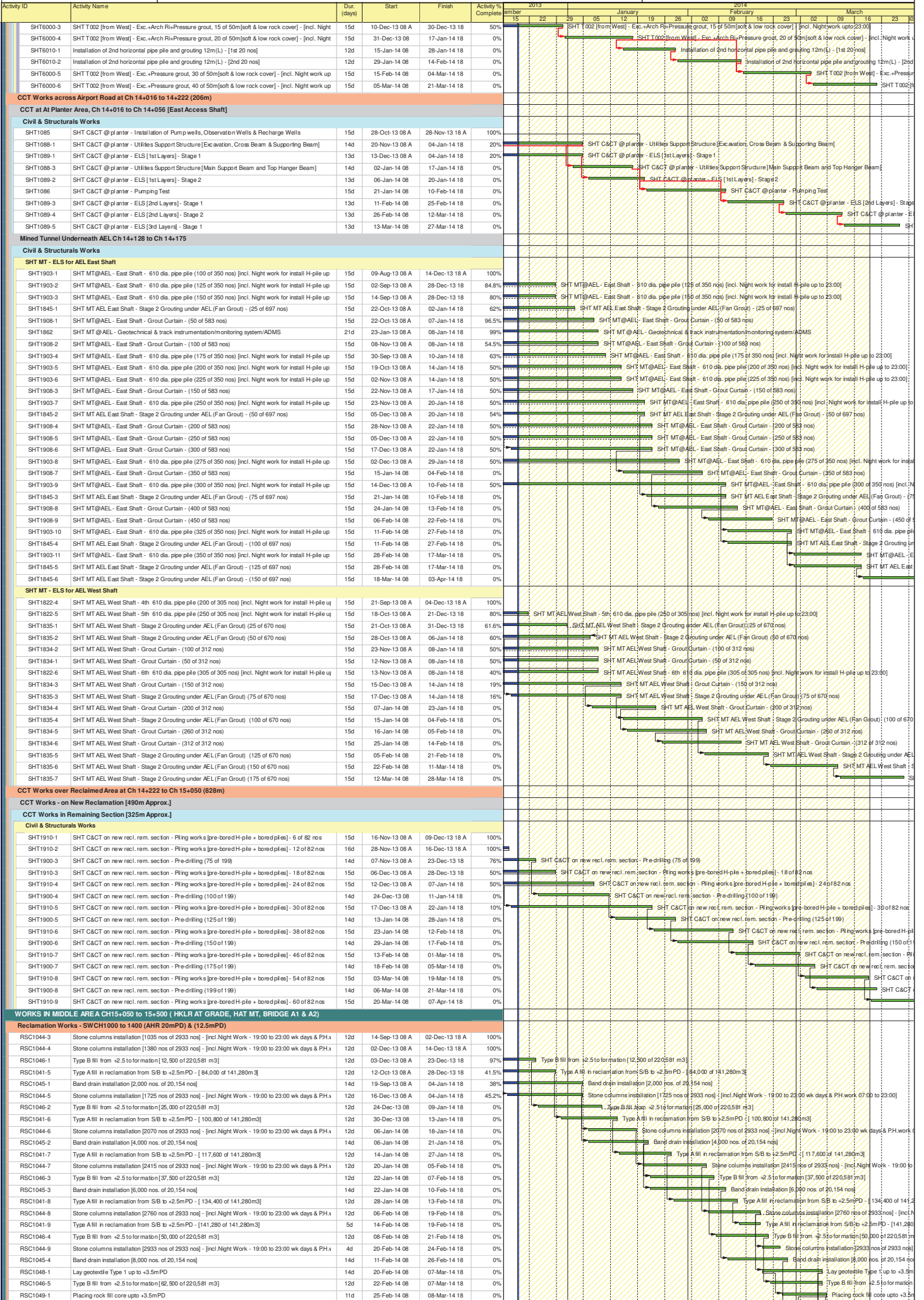
	Works Programme
	Works Programme
	Works Programme
	Milestone
	Milestone

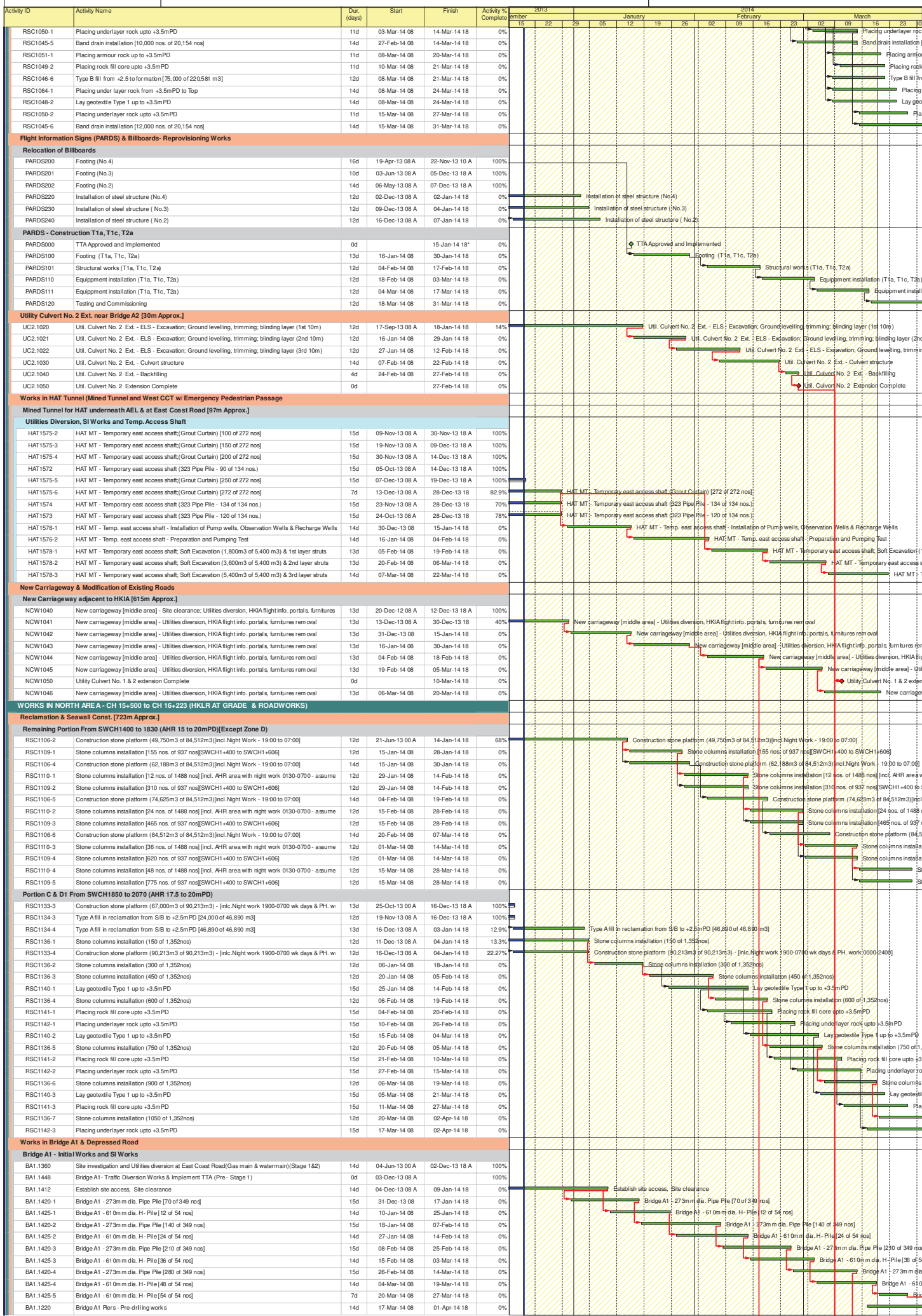
China State Construction Engineering (Hong Kong) Ltd -
 Contract No. HY/2011/03 - HZMB, Hong Kong Link Road
 , Section between Scenic Hill and HKBCF

Prepared by WC/CKK			
Date	Revision	Chec...	Approved
31-Dec-13...		HKC	SYT

中國建築工程(香港)有限公司
 CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LTD.

(January 2014 to March 2014)







路政署
HIGHWAYS DEPARTMENT

港珠澳大橋香港工程管理處
Hong Kong - Zhuhai - Macao Bridge
Hong Kong Project Management Office

Contract No. HY/2011/03 : Hong Kong-Zhuhai-Macao Bridge
Hong Kong Link Road - Section between Scenic Hill
and Hong Kong Boundary Crossing Facilities
16th Monthly EM&A Report

APPENDIX C

Calibration Certificates



中國建築工程(香港)有限公司
CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LTD.

Certificate of Calibration

校正證書

Certificate No. : C133030
證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號 : IC13-1223)

Description / 儀器名稱 : Acoustical Calibrator

Manufacturer / 製造商 : Brüel & Kjær

Model No. / 型號 : 4231

Serial No. / 編號 : 3003246

Supplied By / 委託者 : Atkins China Limited

13/F, Wharf T&T Centre, Harbour City, Tsim Sha Tsui, Kowloon

TEST CONDITIONS / 測試條件

Temperature / 溫度 : (23 ± 2)°C

Relative Humidity / 相對濕度 : (55 ± 20)%

Line Voltage / 電壓 : ---

TEST SPECIFICATIONS / 測試規範

Calibration

DATE OF TEST / 測試日期 : 21 May 2013

TEST RESULTS / 測試結果

The results apply to the particular unit-under-test only.

All results are within manufacturer's specification.

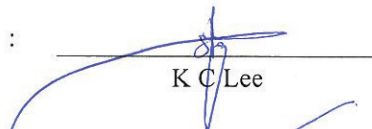
The results are detailed in the subsequent page(s).

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

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

Tested By

測試

: 
K C Lee

Certified By

核證

: 
K M Wu

Date of Issue

簽發日期

: 23 May 2013

The test equipment used for calibration are traceable to the Nation Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.

本證書所載校正用之測試器材均可溯源至國際標準。局部複印本證書需先獲本實驗室書面批准。

Certificate of Calibration

校正證書

Certificate No. : C133030

證書編號

- The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 hours before the commencement of the test.
- The results presented are the mean of 3 measurements at each calibration point.
- Test equipment :

Equipment ID	Description	Certificate No.
CL130	Universal Counter	C123541
CL281	Multifunction Acoustic Calibrator	DC110233
TST150A	Measuring Amplifier	C120886

- Test procedure : MA100N.

- Results :

5.1 Sound Level Accuracy

5.1.1 Before Adjustment

UUT Nominal Value	Measured Value (dB)	Mfr's Spec. (dB)	Uncertainty of Measured Value (dB)
94 dB, 1 kHz	94.1	± 0.2	± 0.2
114 dB, 1 kHz	114.1		

5.1.2 After Adjustment

UUT Nominal Value	Measured Value (dB)	Mfr's Spec. (dB)	Uncertainty of Measured Value (dB)
94 dB, 1 kHz	94.0	± 0.2	± 0.2
114 dB, 1 kHz	114.0		

5.2 Frequency Accuracy

5.2.1 Before Adjustment

UUT Nominal Value (kHz)	Measured Value (kHz)	Mfr's Spec.	Uncertainty of Measured Value (Hz)
1	1.000 0	1 kHz ± 0.1 %	± 0.1

5.2.2 After Adjustment

UUT Nominal Value (kHz)	Measured Value (kHz)	Mfr's Spec.	Uncertainty of Measured Value (Hz)
1	1.000 0	1 kHz ± 0.1 %	± 0.1

The test equipment used for calibration are traceable to the Nation Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.

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輝創工程有限公司

Sun Creation Engineering Limited

Calibration and Testing Laboratory

Certificate of Calibration

校正證書

Certificate No. : C133030

證書編號

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

Note :

The values given in this Certificate 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.

The test equipment used for calibration are traceable to the Nation Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.

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Sun Creation Engineering Limited – Calibration & Testing Laboratory

c/o 4/F, Tsing Shan Wan Exchange Building, 1 Hing On Lane, Tuen Mun, New Territories, Hong Kong

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c/o 香港新界屯門興安里一號青山灣機樓四樓

Tel/電話: 2927 2606 Fax/傳真: 2744 8986 E-mail/電郵: callab@suncreation.com Website/網址: www.suncreation.com

Certificate of Calibration

校正證書

Certificate No. : C135382

證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號 : IC13-2172)

Description / 儀器名稱 : Integrating Sound Level Meter

Manufacturer / 製造商 : Brüel & Kjær

Model No. / 型號 : 2238

Serial No. / 編號 : 2808432

Supplied By / 委託者 : Atkins China Limited

13/F, Wharf T&T Centre, Harbour City, Tsim Sha Tsui, Kowloon

TEST CONDITIONS / 測試條件

Temperature / 溫度 : (23 ± 2)°C

Relative Humidity / 相對濕度 : (55 ± 20)%

Line Voltage / 電壓 : ---

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期 : 26 August 2013

TEST RESULTS / 測試結果

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
- Rohde & Schwarz Laboratory, Germany
- Fluke Everett Service Center, USA
- Agilent Technologies, USA

Tested By

測試

: 
K C Lee

Certified By

核證

: 
K M Wu

Date of Issue

簽發日期

: 28 August 2013

The test equipment used for calibration are traceable to the Nation Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.

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Certificate of Calibration

校正證書

Certificate No. : C135382
證書編號

- The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 hours, and switched on to warm up for over 10 minutes before the commencement of the test.
- Self-calibration using laboratory acoustic calibrator was performed before the test from 6.1.1.2 to 6.4.
- The results presented are the mean of 3 measurements at each calibration point.
- Test equipment :

Equipment ID	Description	Certificate No.
CL280	40 MHz Arbitrary Waveform Generator	C130019
CL281	Multifunction Acoustic Calibrator	DC130171

- Test procedure : MA101N.

- Results :

6.1 Sound Pressure Level

6.1.1 Reference Sound Pressure Level

6.1.1.1 Before Self-calibration

UUT Setting				Applied Value		UUT Reading (dB)
Range (dB)	Parameter	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)	
50 - 130	L _{AFP}	A	F	94.00	1	94.2

6.1.1.2 After Self-calibration

UUT Setting				Applied Value		UUT Reading (dB)	IEC 60651 Type 1 Spec. (dB)
Range (dB)	Parameter	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)		
50 - 130	L _{AFP}	A	F	94.00	1	94.1	± 0.7

6.1.2 Linearity

UUT Setting				Applied Value		UUT Reading (dB)
Range (dB)	Parameter	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)	
50 - 130	L _{AFP}	A	F	94.00	1	94.1 (Ref.)
				104.00		104.1
				114.00		114.1

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

The test equipment used for calibration are traceable to the Nation Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.

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c/o 香港新界屯門興安里一號青山灣機樓四樓

Tel/電話: 2927 2606 Fax/傳真: 2744 8986 E-mail/電郵: callab@suncreation.com Website/網址: www.suncreation.com

Certificate of Calibration

校正證書

Certificate No. : C135382
證書編號

6.2 Time Weighting

6.2.1 Continuous Signal

UUT Setting				Applied Value		UUT Reading (dB)	IEC 60651 Type 1 Spec. (dB)
Range (dB)	Parameter	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)		
50 - 130	L _{AFP}	A	F	94.00	1	94.1	Ref.
	L _{ASP}		S			94.1	± 0.1
	L _{AIP}		I			94.2	± 0.1

6.2.2 Tone Burst Signal (2 kHz)

UUT Setting				Applied Value		UUT Reading (dB)	IEC 60651 Type 1 Spec. (dB)
Range (dB)	Parameter	Frequency Weighting	Time Weighting	Level (dB)	Burst Duration		
30 - 110	L _{AFP}	A	F	106.0	Continuous	106.0	Ref.
	L _{AFMax}				200 ms	105.0	-1.0 ± 1.0
	L _{ASP}		S		Continuous	106.0	Ref.
	L _{ASMax}				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)	Parameter	Frequency Weighting	Time Weighting	Level (dB)	Freq.		
50 - 130	L _{AFP}	A	F	94.00	31.5 Hz	55.0	-39.4 ± 1.5
					63 Hz	68.0	-26.2 ± 1.5
					125 Hz	78.0	-16.1 ± 1.0
					250 Hz	85.4	-8.6 ± 1.0
					500 Hz	90.9	-3.2 ± 1.0
					1 kHz	94.1	Ref.
					2 kHz	95.3	+1.2 ± 1.0
					4 kHz	95.1	+1.0 ± 1.0
					8 kHz	93.0	-1.1 (+1.5 ; -3.0)
					12.5 kHz	89.8	-4.3 (+3.0 ; -6.0)

The test equipment used for calibration are traceable to the Nation Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.

本證書所載校正用之測試器材均可溯源至國際標準。局部複印本證書需先獲本實驗室書面批准。

Certificate of Calibration

校正證書

Certificate No. : C135382
證書編號

6.3.2 C-Weighting

UUT Setting				Applied Value		UUT Reading (dB)	IEC 60651 Type 1 Spec. (dB)
Range (dB)	Parameter	Frequency Weighting	Time Weighting	Level (dB)	Freq.		
50 - 130	L _{CFP}	C	F	94.00	31.5 Hz	91.3	-3.0 ± 1.5
					63 Hz	93.4	-0.8 ± 1.5
					125 Hz	93.9	-0.2 ± 1.0
					250 Hz	94.1	0.0 ± 1.0
					500 Hz	94.1	0.0 ± 1.0
					1 kHz	94.1	Ref.
					2 kHz	93.9	-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	87.9	-6.2 (+3.0 ; -6.0)

6.4 Time Averaging

UUT Setting				Applied Value					UUT Reading (dB)	IEC 60804 Type 1 Spec. (dB)
Range (dB)	Parameter	Frequency Weighting	Integrating Time	Frequency (kHz)	Burst Duration (ms)	Burst Duty Factor	Burst Level (dB)	Equivalent Level (dB)		
30 - 110	L _{Aeq}	A	10 sec.	4	1	1/10	110.0	100	99.9	± 0.5
			60 sec.					90	90.0	± 0.5
			5 min.					80	79.7	± 1.0
								70	69.7	± 1.0

Remarks : - UUT Microphone Model No. : 4188 & S/N : 2791442

- 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 Certificate 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.

The test equipment used for calibration are traceable to the Nation Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.

本證書所載校正用之測試器材均可溯源至國際標準。局部複印本證書需先獲本實驗室所書面批准。

ENVIROTECH SERVICES CO.

High-Volume TSP Sampler
5-Point Calibration Record

Location : AMS5(Ma Wan Chung Village)
Calibrated by : K.F.Ho
Date : 20/12/2013

Sampler

Model : TE-5170
Serial Number : S/N3640

Calibration Orifice and Standard Calibration Relationship

Serial Number : 2454
Service Date : 12 Mar 2013
Slope (m) : 2.05818
Intercept (b) : 0.01929
Correlation Coefficient(r) : 0.99991

Standard Condition

Pstd (hpa) : 1013
Tstd (K) : 298.18

Calibration Condition

Pa (hpa) : 1023
Ta(K) : 288

Resistance Plate	dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC	Y
1 18 holes	13.1	3.700	1.783	60	61.33
2 13 holes	9.4	3.134	1.512	50	51.11
3 10 holes	7.5	2.799	1.352	44	44.98
4 7 holes	5.4	2.375	1.150	38	38.84
5 5 holes	2.8	1.711	0.832	27	27.60

Notes: $Z = \sqrt{dH(Pa/Pstd)(Tstd/Ta)}$, $X = Z/m - b$, $Y(\text{Corrected Flow}) = IC * \{\sqrt{Pa/Pstd}(Tstd/Ta)\}$

Sampler Calibration Relationship

Slope(m): 35.188 Intercept(b): -1.877 Correlation Coefficient(r): 0.9993

Checked by: Magnum Fan

Date: 26/12/2013

ENVIROTECH SERVICES CO.

High-Volume TSP Sampler
5-Point Calibration Record

Location : AMS6 (Dragonair Building)
Calibrated by : K.F.Ho
Date : 16/11/2013

Sampler

Model : TE-5170
Serial Number : S/N3639

Calibration Orifice and Standard Calibration Relationship

Serial Number : 2323
Service Date : 26 Dec 2012
Slope (m) : 2.09107
Intercept (b) : -0.02838
Correlation Coefficient(r) : 0.99996

Standard Condition

Pstd (hpa) : 1013
Tstd (K) : 298.18

Calibration Condition

Pa (hpa) : 1018
Ta(K) : 297

Resistance Plate	dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC	Y
1 18 holes	10.9	3.319	1.601	60	60.32
2 13 holes	8.9	2.999	1.448	54	54.29
3 10 holes	6.9	2.641	1.276	48	48.26
4 7 holes	4.8	2.203	1.067	39	39.21
5 5 holes	2.8	1.682	0.818	28	28.15

Notes: $Z = \sqrt{dH(Pa/Pstd)(Tstd/Ta)}$, $X = Z/m - b$, $Y(\text{Corrected Flow}) = IC * \{\sqrt{Pa/Pstd}(Tstd/Ta)\}$

Sampler Calibration Relationship

Slope(m): 40.968 Intercept(b): -4.839 Correlation Coefficient(r): 0.9990

Checked by: Magnum Fan

Date: 22/11/2013

ENVIROTECH SERVICES CO.

High-Volume TSP Sampler
5-Point Calibration Record

Location : AMS6(Dragonair Building)
Calibrated by : K.F.Ho
Date : 17/01/2014

Sampler

Model : TE-5170
Serial Number : S/N3639

Calibration Orifice and Standard Calibration Relationship

Serial Number : 2454
Service Date : 12 Mar 2013
Slope (m) : 2.05818
Intercept (b) : 0.01929
Correlation Coefficient(r) : 0.99991

Standard Condition

Pstd (hpa) : 1013
Tstd (K) : 298.18

Calibration Condition

Pa (hpa) : 1026
Ta(K) : 281

Resistance Plate	dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC	Y
1 18 holes	10.9	3.422	1.653	60	62.18
2 13 holes	8.6	3.039	1.467	52	53.89
3 10 holes	6.7	2.683	1.294	46	47.67
4 7 holes	4.6	2.223	1.071	38	39.38
5 5 holes	2.8	1.734	0.833	28	29.02

Notes: $Z = \sqrt{dH(Pa/Pstd)(Tstd/Ta)}$, $X = Z/m - b$, $Y(\text{Corrected Flow}) = IC * \{\sqrt{Pa/Pstd}(Tstd/Ta)\}$

Sampler Calibration Relationship

Slope(m): 39.720 Intercept(b): -3.762 Correlation Coefficient(r): 0.9992

Checked by: Magnum Fan

Date: 22/01/2014



TISCH ENVIRONMENTAL, INC.
 145 SOUTH MIAMI AVE.
 VILLAGE OF CLEVELAND, OH 45002
 513.467.9000
 877.263.7610 TOLL FREE
 513.467.9009 FAX
 WWW.TISCH-ENV.COM

AIR POLLUTION MONITORING EQUIPMENT

ORIFICE TRANSFER STANDARD CERTIFICATION WORKSHEET TE-5025A

Date - Dec 26, 2012 Rootsmeter S/N 0438320 Ta (K) - 295
 Operator Tisch Orifice I.D. - 2323 Pa (mm) - 753.11

PLATE OR Run #	VOLUME START (m3)	VOLUME STOP (m3)	DIFF VOLUME (m3)	DIFF TIME (min)	METER DIFF Hg (mm)	ORFICE DIFF H2O (in.)
1	NA	NA	1.00	1.4440	3.2	2.00
2	NA	NA	1.00	1.0240	6.4	4.00
3	NA	NA	1.00	0.9120	8.0	5.00
4	NA	NA	1.00	0.8720	8.8	5.50
5	NA	NA	1.00	0.7200	12.8	8.00

DATA TABULATION

Vstd	(x axis) Qstd	(y axis)	Va	(x axis) Qa	(y axis)
0.9967	0.6902	1.4149	0.9957	0.6896	0.8851
0.9925	0.9693	2.0010	0.9915	0.9683	1.2517
0.9903	1.0858	2.2372	0.9893	1.0847	1.3995
0.9893	1.1345	2.3464	0.9883	1.1334	1.4678
0.9840	1.3666	2.8299	0.9830	1.3652	1.7702
Qstd slope (m) = 2.09107			Qa slope (m) = 1.30939		
intercept (b) = -0.02838			intercept (b) = -0.01775		
coefficient (r) = 0.99996			coefficient (r) = 0.99996		
y axis = SQRT[H2O(Pa/760)(298/Ta)]			x axis = SQRT[H2O(Ta/Pa)]		

CALCULATIONS

$$Vstd = \text{Diff. Vol} [(Pa - \text{Diff. Hg}) / 760] (298 / Ta)$$

$$Qstd = Vstd / \text{Time}$$

$$Va = \text{Diff Vol} [(Pa - \text{Diff Hg}) / Pa]$$

$$Qa = Va / \text{Time}$$

For subsequent flow rate calculations:

$$Qstd = 1/m \{ [\text{SQRT}(H2O(Pa/760)(298/Ta))] - b \}$$

$$Qa = 1/m \{ [\text{SQRT} H2O(Ta/Pa)] - b \}$$



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AIR POLLUTION MONITORING EQUIPMENT

ORIFICE TRANSFER STANDARD CERTIFICATION WORKSHEET TE-5025A

Date - Mar 12, 2013 Roots-meter S/N 0438320 Ta (K) - 293
 Operator Tisch Orifice I.D. - 2454 Pa (mm) - 748.03

PLATE OR Run #	VOLUME START (m3)	VOLUME STOP (m3)	DIFF VOLUME (m3)	DIFF TIME (min)	METER DIFF Hg (mm)	ORFICE DIFF H2O (in.)
1	NA	NA	1.00	1.4750	3.2	2.00
2	NA	NA	1.00	1.0290	6.4	4.00
3	NA	NA	1.00	0.9170	8.0	5.00
4	NA	NA	1.00	0.8740	8.9	5.50
5	NA	NA	1.00	0.7220	12.8	8.00

DATA TABULATION

Vstd	(x axis) Qstd	(y axis)	Va	(x axis) Qa	(y axis)
0.9967	0.6757	1.4150	0.9957	0.6750	0.8851
0.9925	0.9645	2.0010	0.9915	0.9635	1.2517
0.9902	1.0799	2.2372	0.9892	1.0788	1.3995
0.9891	1.1317	2.3464	0.9881	1.1305	1.4678
0.9839	1.3627	2.8299	0.9828	1.3613	1.7702
Qstd slope (m) = 2.05818			Qa slope (m) = 1.28880		
intercept (b) = 0.01929			intercept (b) = 0.01207		
coefficient (r) = 0.99991			coefficient (r) = 0.99991		
y axis = SQRT[H2O(Pa/760) (298/Ta)]			y axis = SQRT[H2O(Ta/Pa)]		

CALCULATIONS

$$Vstd = \text{Diff. Vol} [(Pa - \text{Diff. Hg}) / 760] (298 / Ta)$$

$$Qstd = Vstd / \text{Time}$$

$$Va = \text{Diff Vol} [(Pa - \text{Diff Hg}) / Pa]$$

$$Qa = Va / \text{Time}$$

For subsequent flow rate calculations:

$$Qstd = 1/m \{ [\text{SQRT}(H2O(Pa/760) (298/Ta))] - b \}$$

$$Qa = 1/m \{ [\text{SQRT} H2O(Ta/Pa)] - b \}$$

EQUIPMENT CALIBRATION RECORD

Type : Laser Dust Monitor
 Manufacturer / Brand : SIBATA
 Model No.: LD-3B
 Equipment No.: LD-3B-003
 Sensitivity Adjustment Scale Setting : 799 CPM

Operator: _____

Standard Equipment

Equipment : MFC High Volume Air Sampler
 Venue : The Arcade, Cyberport
 Model No.: TE-5170 Total Suspended Particulated
 Serial No.: 276018

Last Calibration Date N/A

Calibration Result

Sensitivity Adjustment Scale Setting (Before Calibration) : 799 CPM
 Sensitivity Adjustment Scale Setting (After Calibration) : 799 CPM

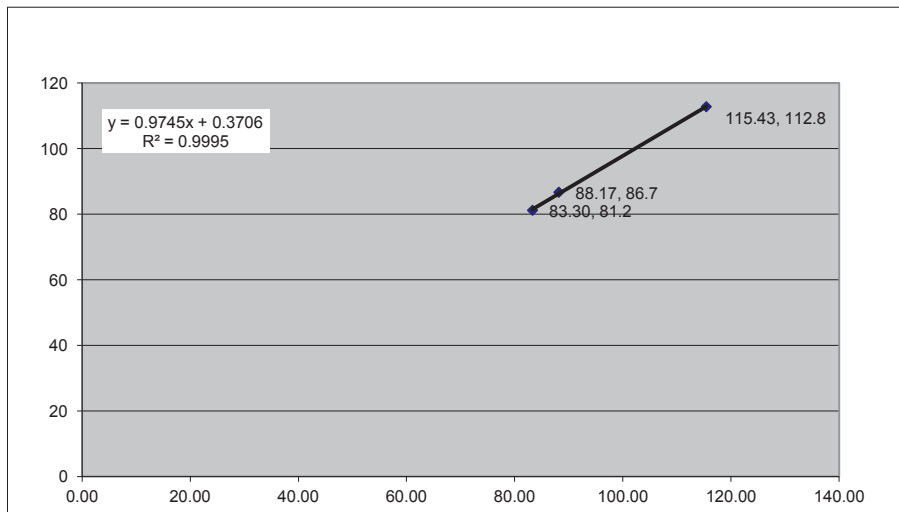
Hour	Date (dd-mmm-yy)	Time		Ambient Condition		Concentration (ug/m3) Y-axis	Total Count	Count/Minute X-axis
				Temp (C)	R.H. (%)			
1	04-Oct-13	09:34	10:34	26.2	72%	112.8	6926	115.43
2	04-Oct-13	10:45	11:45	26.2	72%	86.7	5290	88.17
3	04-Oct-13	11:50	12:50	26.2	72%	81.2	4998	83.30

Be Linear Regression of Y or X

Slope (K-factor): 0.975

Correlation coefficient : 0.9995

Remark: _____



Recorded by: Ruby Law

Signature: 

Date: 21/10/2013

Checked by: Keith Chau

Signature: 

Date: 21/10/2013

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION



Work Order: HK1331508
Date of Issue: 18/11/2013
Client: AECOM ASIA COMPANY LIMITED

Equipment Type: YSI Sonde
Brand Name: YSI
Model No.: 6820 V2
Serial No.: 12A101545
Equipment No.: W.026.35
Date of Calibration: 14 November, 2013 **Date of next Calibration:** 14 February, 2014

Parameters:

Conductivity

Method Ref: APHA (21st edition), 2510B

Expected Reading (uS/cm)	Displayed Reading (uS/cm)	Tolerance (%)
146.9	150.5	2.5
6667	6460	-3.1
12890	12710	-1.4
58670	58120	-0.9
Tolerance Limit (±%)		10.0

Dissolved Oxygen

Method Ref: APHA (21st edition), 4500O: G

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
3.49	3.51	0.02
5.05	5.11	0.06
7.59	7.54	-0.05
Tolerance Limit (±mg/L)		0.20

pH Value

Method Ref: APHA 21st Ed. 4500H:B

Expected Reading (pH Unit)	Displayed Reading (pH Unit)	Tolerance (pH unit)
4.0	3.94	-0.06
7.0	6.98	-0.02
10.0	9.99	-0.01
Tolerance Limit (±pH unit)		0.20

Salinity

Method Ref: APHA (21st edition), 2520B

Expected Reading (ppt)	Displayed Reading (ppt)	Tolerance (%)
0	0.01	--
10	9.77	-2.3
20	19.40	-3.0
30	29.73	-0.9
Tolerance Limit (±%)		10.0

Remark: "Displayed Reading" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.

Mr. Fung Lim Chee, Richard
 General Manager -
 Greater China & Hong Kong

REPORT OF EQUIPMENT PERFORMANCE CHECK / CALIBRATION



Work Order: HK1331508
Date of Issue: 18/11/2013
Client: AECOM ASIA COMPANY LIMITED

Equipment Type: YSI Sonde
Brand Name: YSI
Model No.: 6820 V2
Serial No.: 12A101545
Equipment No.: W.026.35
Date of Calibration: 14 November, 2013 **Date of next Calibration:** 14 February, 2014

Parameters:

Temperature

Method Ref: Section 6 of International Accreditation New Zealand Technical Guide No. 3 Second edition March 2008: Working Thermometer Calibration Procedure.

Expected Reading (°C)	Displayed Reading (°C)	Tolerance (°C)
16.5	16.42	-0.1
26.0	26.51	0.5
38.0	38.22	0.2
Tolerance Limit (±°C)		2.0

Turbidity

Method Ref: APHA (21st edition), 2130B

Expected Reading (NTU)	Displayed Reading (NTU)	Tolerance (%)
0	0	--
4	3.8	-5.0
10	9.9	-1.0
20	19.2	-4.0
50	48.0	-4.0
100	99.1	-0.9
Tolerance Limit (±%)		10.0

Remark: "Displayed Reading" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.

REPORT OF EQUIPMENT PERFORMANCE CHECK / CALIBRATION



Work Order: HK1327504
Date of Issue: 22/10/2013
Client: AECOM ASIA COMPANY LIMITED

Equipment Type: Multimeter
Brand Name: YSI
Model No.: 6820 V2
Serial No.: 12D100972
Equipment No.: W.026.36
Date of Calibration: 08 October, 2013 **Date of next Calibration:** 08 January, 2014

Parameters:

Conductivity

Method Ref: APHA (21st edition), 2510B

Expected Reading (uS/cm)	Displayed Reading (uS/cm)	Tolerance (%)
146.9	141.0	-4.0
6667	6232	-6.5
12890	12570	-2.5
58670	55110	-6.1
Tolerance Limit (±%)		10.0

Dissolved Oxygen

Method Ref: APHA (21st edition), 4500O: G

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
3.55	3.44	-0.11
5.70	5.76	0.06
7.20	7.29	0.09
Tolerance Limit (±mg/L)		0.20

pH Value

Method Ref: APHA 21st Ed. 4500H:B

Expected Reading (pH Unit)	Displayed Reading (pH Unit)	Tolerance (pH unit)
4.0	4.10	0.10
7.0	7.06	0.06
10.0	10.03	0.03
Tolerance Limit (±pH unit)		0.20

Salinity

Method Ref: APHA (21st edition), 2520B

Expected Reading (ppt)	Displayed Reading (ppt)	Tolerance (%)
0	0.07	--
10	9.99	-0.1
20	20.05	0.3
30	30.64	2.1
Tolerance Limit (±%)		10.0

Remark: "Displayed Reading" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.



 Mr. Fung Lim Chee, Richard
 General Manager -
 Greater China & Hong Kong

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION



Work Order: HK1327504
Date of Issue: 22/10/2013
Client: AECOM ASIA COMPANY LIMITED

Description: Multimeter
Brand Name: YSI
Model No.: 6820 V2
Serial No.: 12D100972
Equipment No.: W.026.36
Date of Calibration: 08 October, 2013 **Date of next Calibration:** 08 January, 2014

Parameters:

Temperature

Method Ref: Section 6 of International Accreditation New Zealand Technical Guide No. 3 Second edition March 2008: Working Thermometer Calibration Procedure.

Expected Reading (°C)	Displayed Reading (°C)	Tolerance (°C)
14.0	14.11	0.1
25.0	25.14	0.1
36.5	36.69	0.2
Tolerance Limit (±°C)		2.0

Turbidity

Method Ref: APHA (21st edition), 2130B

Expected Reading (NTU)	Displayed Reading (NTU)	Tolerance (%)
0	0.0	--
4	4.2	5.0
10	10.5	5.0
20	19.6	-2.0
50	48.2	-3.6
100	99.8	-0.2
Tolerance Limit (±%)		10.0

Remark: "Displayed Reading" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.



 Mr. Fung Lim Chee, Richard
 General Manager -
 Greater China & Hong Kong

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

Work Order: HK1400792
Date of Issue: 10/01/2014
Client: AECOM ASIA COMPANY LIMITED



Equipment Type: YSI Sonde
Brand Name: YSI
Model No.: 6820 V2
Serial No.: 12D100972
Equipment No.: W.026.36
Date of Calibration: 09 January, 2014 **Date of next Calibration:** 09 April, 2014

Parameters:

Conductivity

Method Ref: APHA (21st edition), 2510B

Expected Reading (uS/cm)	Displayed Reading (uS/cm)	Tolerance (%)
146.9	150.5	2.5
6667	6580	-1.3
12890	12650	-1.9
58670	58580	-0.2
Tolerance Limit (±%)		10.0

Dissolved Oxygen

Method Ref: APHA (21st edition), 4500O: G

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
3.80	3.78	-0.02
5.85	5.80	-0.05
7.65	7.61	-0.04
Tolerance Limit (±mg/L)		0.20

pH Value

Method Ref: APHA 21st Ed. 4500H:B

Expected Reading (pH Unit)	Displayed Reading (pH Unit)	Tolerance (pH unit)
4.0	4.08	0.08
7.0	7.05	0.05
10.0	9.97	-0.03
Tolerance Limit (±pH unit)		0.20

Salinity

Method Ref: APHA (21st edition), 2520B

Expected Reading (ppt)	Displayed Reading (ppt)	Tolerance (%)
0	0	--
10	9.89	-1.1
20	19.77	-1.2
30	29.50	-1.7
Tolerance Limit (±%)		10.0

Remark: "Displayed Reading" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.


 Mr. Fung Lim Chee, Richard
 General Manager -
 Greater China & Hong Kong

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION



Work Order: HK1400792
Date of Issue: 10/01/2014
Client: AECOM ASIA COMPANY LIMITED

Equipment Type: YSI Sonde
Brand Name: YSI
Model No.: 6820 V2
Serial No.: 12D100972
Equipment No.: W.026.36
Date of Calibration: 09 January, 2014

Date of next Calibration: 09 April, 2014

Parameters:

Temperature

Method Ref: Section 6 of International Accreditation New Zealand Technical
Guide No. 3 Second edition March 2008: Working Thermometer Calibration Procedure.

Expected Reading (°C)	Displayed Reading (°C)	Tolerance (°C)
12.5	12.48	0.0
25.0	24.86	-0.1
36.0	35.85	-0.1
Tolerance Limit (±°C)		2.0

Turbidity

Method Ref: APHA (21st edition), 2130B

Expected Reading (NTU)	Displayed Reading (NTU)	Tolerance (%)
0	0	--
4	4.1	2.5
10	10.4	4.0
20	20.3	1.5
50	49.3	-1.4
100	100.5	0.5
Tolerance Limit (±%)		10.0

Remark: "Displayed Reading" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.


 Mr. Fung Lim Chee, Richard
 General Manager -
 Greater China & Hong Kong



路政署
HIGHWAYS DEPARTMENT

港珠澳大橋香港工程管理處
Hong Kong - Zhuhai - Macao Bridge
Hong Kong Project Management Office

Contract No. HY/2011/03 : Hong Kong-Zhuhai-Macao Bridge
Hong Kong Link Road - Section between Scenic Hill
and Hong Kong Boundary Crossing Facilities
16th Monthly EM&A Report

APPENDIX D

Monitoring Schedule



中國建築工程(香港)有限公司
CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LTD.

Jan-14

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Time			01-Jan	02-Jan	03-Jan	04-Jan	05-Jan
			Holiday Water Quality Monitoring	AMS6/AMS5 - 24hr Dust	AMS6-1hr AMS5-1hr Water Quality Monitoring		
Time	06-Jan	07-Jan	08-Jan	09-Jan	10-Jan	11-Jan	12-Jan
		1st Dolphin Monitoring(1)	AMS6 - 24hr Dust Water Quality Monitoring	AMS6-1hr AMS5-1hr+NMS5 1st Dolphin Monitoring(1) AMS5 - 24hr Dust(2)	Water Quality Monitoring		
Time	13-Jan	14-Jan	15-Jan	16-Jan	17-Jan	18-Jan	19-Jan
	Water Quality Monitoring		AMS6-1hr AMS5-1hr+NMS5 Water Quality Monitoring		Water Quality Monitoring		
Time	20-Jan	21-Jan	22-Jan	23-Jan	24-Jan	25-Jan	26-Jan
	Water Quality Monitoring	AMS6/AMS5 - 24hr Dust	Water Quality Monitoring		Water Quality Monitoring		
	AMS6/AMS5 - 24hr Dust Water Quality Monitoring	AMS6-1hr AMS5-1hr+NMS5 2nd Dolphin Monitoring(3)		2nd Dolphin Monitoring	AMS6 - 24hr Dust AMS5 - 24hr Dust(4) Water Quality Monitoring		
Time	27-Jan	28-Jan	29-Jan	30-Jan	31-Jan		
	AMS6-1hr AMS5-1hr Water Quality Monitoring		AMS6/AMS5 - 24hr Dust Water Quality Monitoring	AMS6-1hr AMS5-1hr+NMS5	Holiday Water Quality Monitoring(5)		

Remark:

- (1) Due to unfavourable weather on 6 January 2014, the dolphin survey was rescheduled from 6 and 8 January 2014 to 7 and 9 January 2014.
- (2) Due to interruption of electricity supply to high volume sampler at AMS5 during the sampling period, the 24hr- dust monitoring result on 8 January 2014 was considered invalid. 24 hrs dust monitoring was rescheduled on 9 January 2014.
- (3) Due to the boat arrangement problem, the 2nd dolphin monitoring was rescheduled from 20 January 2014 on 21 January 2014.
- (4) Due to malfunction of high volume sampler at AMS5 on 24 January 2014, the 24 hrs dust monitoring was cancelled on 24 January 2014. After repairing the HVS, it resumed normal on 29 January 2014.
- (5) Due to Chinese New Year, the water quality monitoring on 31 January 2014 was rescheduled to 1 February 2014

Feb-14

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Time						01-Feb	02-Feb
						Water Quality Monitoring	
Time	03-Feb	04-Feb	05-Feb	06-Feb	07-Feb	08-Feb	09-Feb
	Holiday	AMS6/AMS5 - 24hr Dust	AMS6-1hr AMS5-1hr+NMS5	1st Dolphin Monitoring	AMS6-1hr AMS5-1hr		
	Water Quality Monitoring		Water Quality Monitoring		Water Quality Monitoring		
Time	10-Feb	11-Feb	12-Feb	13-Feb	14-Feb	15-Feb	16-Feb
				AMS6-1hr AMS5-1hr+NMS5			
	AMS6/AMS5 - 24hr Dust Water Quality Monitoring	1st Dolphin Monitoring Water Quality Monitoring			2nd Dolphin Monitoring AMS6/AMS5 - 24hr Dust Water Quality Monitoring		
Time	17-Feb	18-Feb	19-Feb	20-Feb	21-Feb	22-Feb	23-Feb
	AMS6-1hr AMS5-1hr+NMS5				AMS6-1hr AMS5-1hr 2nd Dolphin Monitoring		
	Water Quality Monitoring		Water Quality Monitoring		Water Quality Monitoring		
Time	24-Feb	25-Feb	26-Feb	27-Feb	28-Feb		
				AMS6-1hr AMS5-1hr+NMS5			
	Water Quality Monitoring		AMS6/AMS5 - 24hr Dust Water Quality Monitoring		Water Quality Monitoring		



APPENDIX E

Monitoring Data



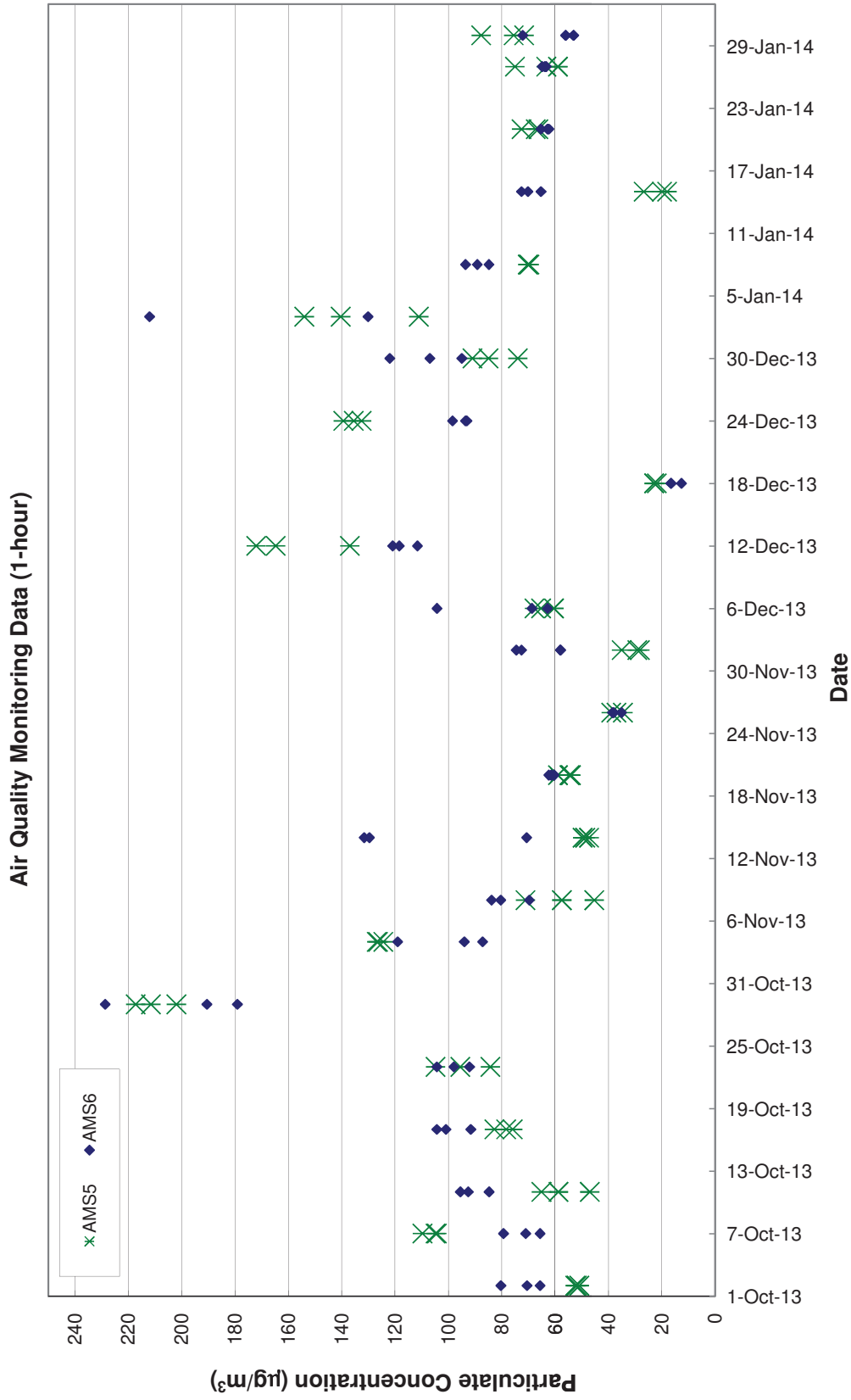
Air Quality Monitoring Data

Project	Works	Date (yyyy-mm-dd)	Station	Time	Parameter	Results	Unit
HKLR	HY/2011/03	2014-01-03	AMS5	09:21	1-hr TSP	140	ug/m ³
HKLR	HY/2011/03	2014-01-03	AMS5	10:21	1-hr TSP	111	ug/m ³
HKLR	HY/2011/03	2014-01-03	AMS5	11:21	1-hr TSP	154	ug/m ³
HKLR	HY/2011/03	2014-01-09	AMS5	09:31	1-hr TSP	70	ug/m ³
HKLR	HY/2011/03	2014-01-09	AMS5	10:31	1-hr TSP	70	ug/m ³
HKLR	HY/2011/03	2014-01-09	AMS5	11:31	1-hr TSP	70	ug/m ³
HKLR	HY/2011/03	2014-01-15	AMS5	13:56	1-hr TSP	18	ug/m ³
HKLR	HY/2011/03	2014-01-15	AMS5	14:56	1-hr TSP	20	ug/m ³
HKLR	HY/2011/03	2014-01-15	AMS5	15:56	1-hr TSP	27	ug/m ³
HKLR	HY/2011/03	2014-01-21	AMS5	09:35	1-hr TSP	73	ug/m ³
HKLR	HY/2011/03	2014-01-21	AMS5	10:35	1-hr TSP	67	ug/m ³
HKLR	HY/2011/03	2014-01-21	AMS5	11:35	1-hr TSP	66	ug/m ³
HKLR	HY/2011/03	2014-01-27	AMS5	09:31	1-hr TSP	75	ug/m ³
HKLR	HY/2011/03	2014-01-27	AMS5	10:31	1-hr TSP	63	ug/m ³
HKLR	HY/2011/03	2014-01-27	AMS5	11:31	1-hr TSP	59	ug/m ³
HKLR	HY/2011/03	2014-01-30	AMS5	09:35	1-hr TSP	72	ug/m ³
HKLR	HY/2011/03	2014-01-30	AMS5	10:35	1-hr TSP	76	ug/m ³
HKLR	HY/2011/03	2014-01-30	AMS5	11:35	1-hr TSP	88	ug/m ³
HKLR	HY/2011/03	2014-01-02	AMS5	08:00	24-hr TSP	102	ug/m ³
HKLR	HY/2011/03	2014-01-09	AMS5	17:40	24-hr TSP	90	ug/m ³
HKLR	HY/2011/03	2014-01-14	AMS5	08:00	24-hr TSP	70	ug/m ³
HKLR	HY/2011/03	2014-01-20	AMS5	08:00	24-hr TSP	161	ug/m ³
HKLR	HY/2011/03	2014-01-24	AMS5	08:00	24-hr TSP	-	ug/m ³
HKLR	HY/2011/03	2014-01-29	AMS5	08:00	24-hr TSP	42	ug/m ³
HKLR	HY/2011/03	2014-01-03	AMS6	13:01	1-hr TSP	130	ug/m ³
HKLR	HY/2011/03	2014-01-03	AMS6	14:01	1-hr TSP	212	ug/m ³
HKLR	HY/2011/03	2014-01-03	AMS6	15:01	1-hr TSP	284	ug/m ³
HKLR	HY/2011/03	2014-01-09	AMS6	13:28	1-hr TSP	85	ug/m ³
HKLR	HY/2011/03	2014-01-09	AMS6	14:28	1-hr TSP	89	ug/m ³
HKLR	HY/2011/03	2014-01-09	AMS6	15:28	1-hr TSP	94	ug/m ³
HKLR	HY/2011/03	2014-01-15	AMS6	07:55	1-hr TSP	73	ug/m ³
HKLR	HY/2011/03	2014-01-15	AMS6	08:55	1-hr TSP	70	ug/m ³
HKLR	HY/2011/03	2014-01-15	AMS6	09:55	1-hr TSP	65	ug/m ³
HKLR	HY/2011/03	2014-01-21	AMS6	13:28	1-hr TSP	62	ug/m ³
HKLR	HY/2011/03	2014-01-21	AMS6	14:28	1-hr TSP	63	ug/m ³
HKLR	HY/2011/03	2014-01-21	AMS6	15:28	1-hr TSP	65	ug/m ³
HKLR	HY/2011/03	2014-01-27	AMS6	13:35	1-hr TSP	63	ug/m ³
HKLR	HY/2011/03	2014-01-27	AMS6	14:35	1-hr TSP	65	ug/m ³
HKLR	HY/2011/03	2014-01-27	AMS6	15:35	1-hr TSP	64	ug/m ³
HKLR	HY/2011/03	2014-01-30	AMS6	13:29	1-hr TSP	72	ug/m ³
HKLR	HY/2011/03	2014-01-30	AMS6	14:29	1-hr TSP	53	ug/m ³
HKLR	HY/2011/03	2014-01-30	AMS6	15:29	1-hr TSP	56	ug/m ³
HKLR	HY/2011/03	2014-01-02	AMS6	08:00	24-hr TSP	151	ug/m ³
HKLR	HY/2011/03	2014-01-08	AMS6	08:00	24-hr TSP	187	ug/m ³
HKLR	HY/2011/03	2014-01-14	AMS6	08:00	24-hr TSP	120	ug/m ³
HKLR	HY/2011/03	2014-01-20	AMS6	08:00	24-hr TSP	213	ug/m ³
HKLR	HY/2011/03	2014-01-24	AMS6	08:00	24-hr TSP	93	ug/m ³
HKLR	HY/2011/03	2014-01-29	AMS6	08:00	24-hr TSP	86	ug/m ³

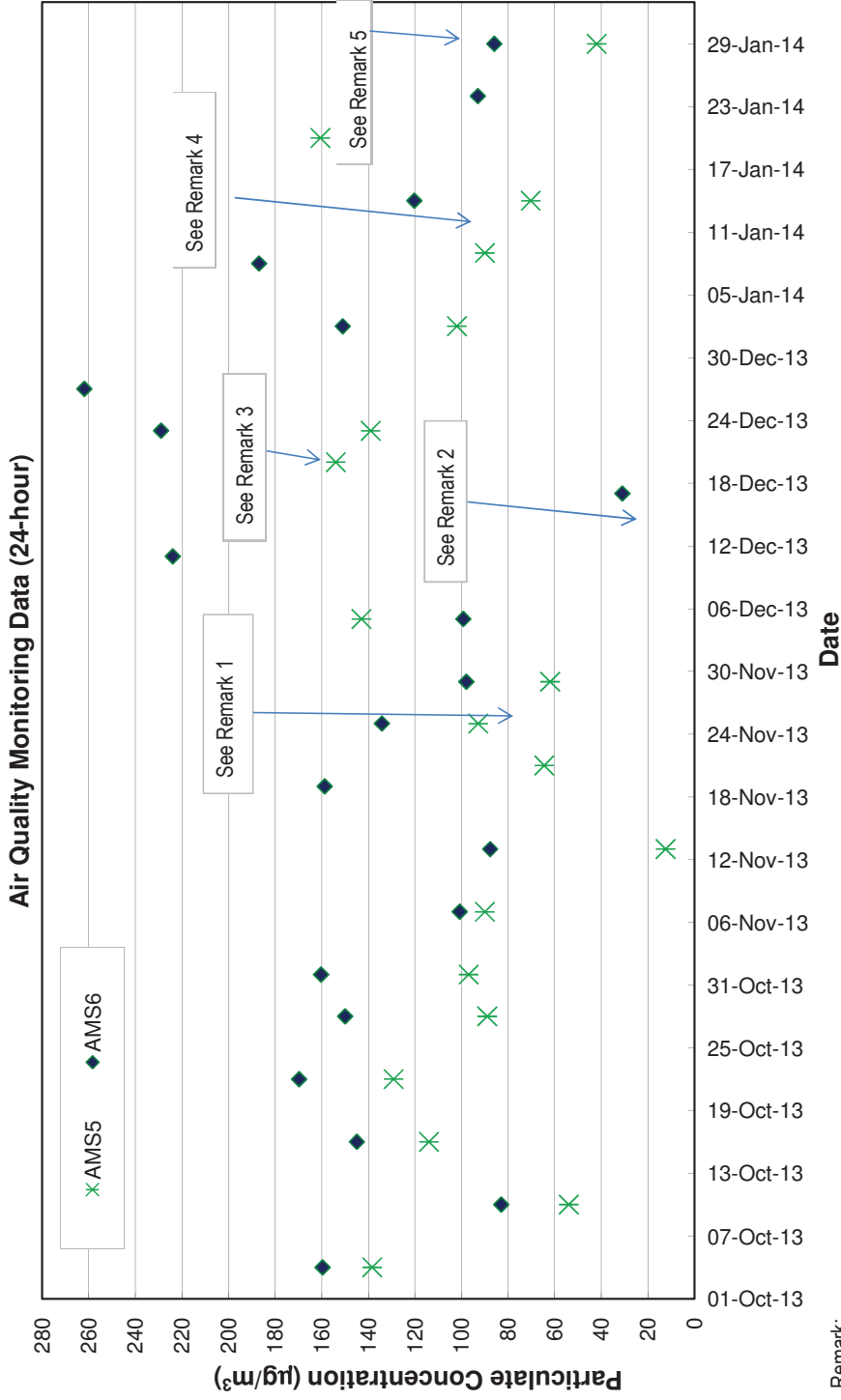
Remark:

- 1) Due to interruption of electricity supply to high volume sampler at AMS5 during the sampling period, the 24hr-dust monitoring result on 8 Jan 2014 was considered invalid. 24 hrs dust monitoring was rescheduled on 9 Jan 2014.
- 2) Due to malfunction of high volume sampler at AMS5 on 24 Jan 2014, the 24 hrs dust monitoring was cancelled on 24 Jan 2014. After repairing the HVS, it resumed normal on 29 Jan 2014.

Graphical Plot of 1-hour TSP at AMS5 and AMS6

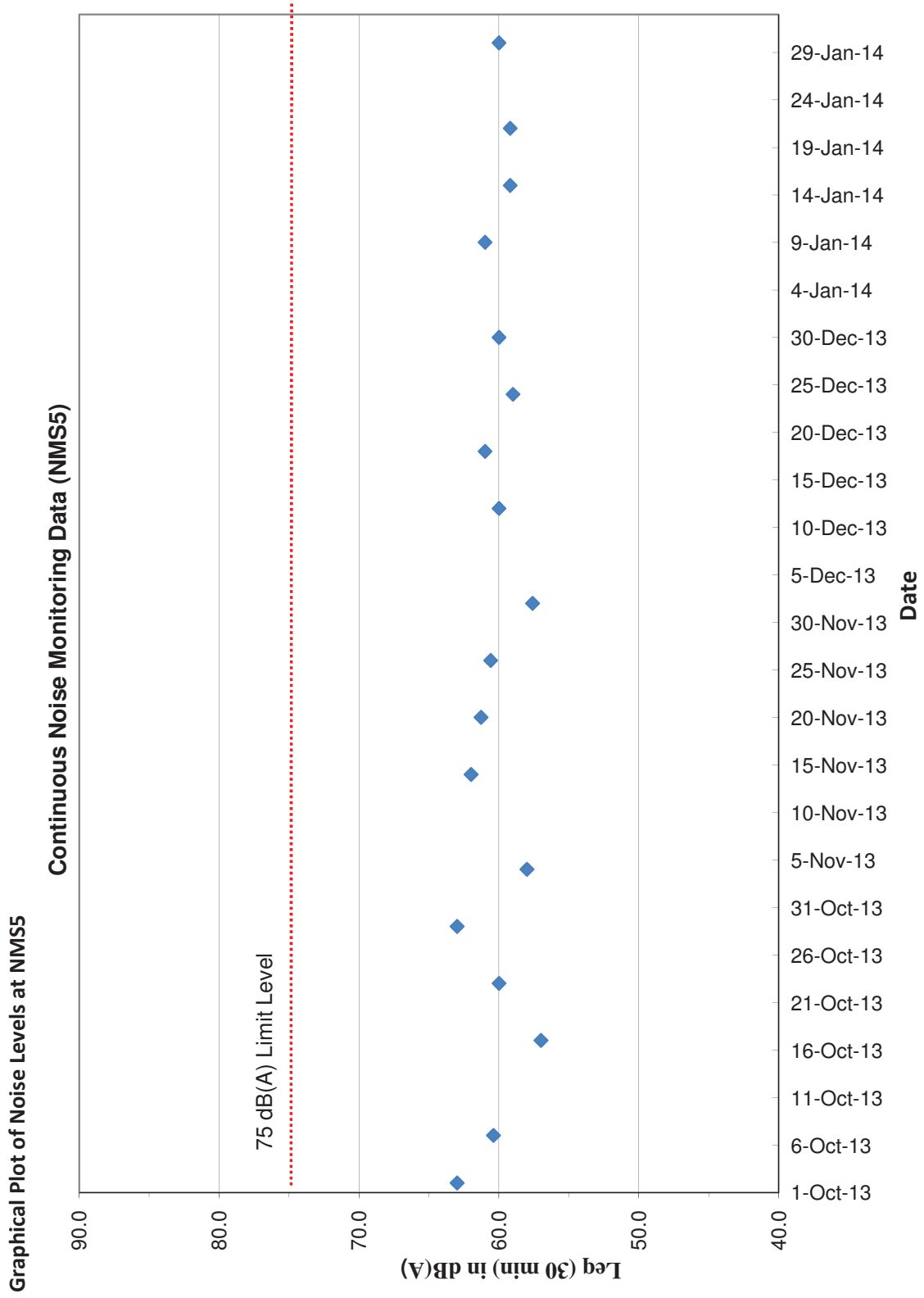


Graphical Plot of 24-hour TSP at AMS5 and AMS6



Remark:

- 1) Due to the electricity supply problem to high volume sampler, the 24-hr dust monitoring at AMS5 was rescheduled from 19 Nov 2013 to 21 Nov 2013.
- 2) Due to interruption of electricity supply during sampling period, the 24hr- dust monitoring result on 11 Dec 2013 at AMS5 was considered invalid.
- 3) The HVS at AMS5 was found out of function since 11 Dec 2013. It resumed normal on 20 Dec 2013. Therefore, the 24hr- dust monitoring was rescheduled from 17 Dec 2013 to 20 Dec 2013.
- 4) Due to interruption of electricity supply to high volume sampler (HVS) at AMS5 during the sampling period, the 24hr-dust monitoring result on 8 Jan 2014 was considered invalid. 24 hrs dust monitoring was rescheduled on 9 Jan 2014.
- 5) Due to malfunction of high volume sampler on 24 Jan 2014, the 24 hrs dust monitoring was cancelled on 24 Jan 2014. After repairing the HVS, it resumed normal on 29 Jan 2014.



Water Quarterly Monitoring Data

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HCLR	HY/2011/03	2014-01-01	Mid-Ebb	Sunny	IS5	12:02:11	1.0	Surface	1	1	16.2	8.02	33.21	100.7	8.09	6.1	4.3
HCLR	HY/2011/03	2014-01-01	Mid-Ebb	Sunny	IS5	12:03:15	1.0	Surface	1	2	16.21	8.03	33.2	101	8.11	6.1	4
HCLR	HY/2011/03	2014-01-01	Mid-Ebb	Sunny	IS5	12:02:54	4.1	Middle	2	1	16.18	8.03	33.22	100.4	8.07	6.4	3.7
HCLR	HY/2011/03	2014-01-01	Mid-Ebb	Sunny	IS5	12:01:52	4.1	Middle	2	2	16.18	8.02	33.22	100.4	8.07	6.2	3.8
HCLR	HY/2011/03	2014-01-01	Mid-Ebb	Sunny	IS5	12:01:32	7.2	Bottom	3	1	16.17	8.02	33.22	100.3	8.06	6.8	4.8
HCLR	HY/2011/03	2014-01-01	Mid-Ebb	Sunny	IS5	12:02:34	7.2	Bottom	3	2	16.18	8.03	33.23	100.4	8.07	6.9	3.7
HCLR	HY/2011/03	2014-01-01	Mid-Ebb	Sunny	IS(M)F6	12:13:48	1.0	Surface	1	1	16.3	8.01	33.23	101.2	8.12	8.6	5
HCLR	HY/2011/03	2014-01-01	Mid-Ebb	Sunny	IS(M)F6	12:13:04	1.0	Surface	1	2	16.29	8.01	33.23	101.4	8.13	8.8	4.2
HCLR	HY/2011/03	2014-01-01	Mid-Ebb	Sunny	IS(M)F6			Middle	2	1							
HCLR	HY/2011/03	2014-01-01	Mid-Ebb	Sunny	IS(M)F6			Middle	2	2							
HCLR	HY/2011/03	2014-01-01	Mid-Ebb	Sunny	IS(M)F6	12:12:47	2.1	Bottom	3	1	16.28	8	33.23	101.2	8.12	9.3	5.2
HCLR	HY/2011/03	2014-01-01	Mid-Ebb	Sunny	IS(M)F6	12:13:32	2.1	Bottom	3	2	16.28	8.01	33.23	101.2	8.12	9.1	6.5
HCLR	HY/2011/03	2014-01-01	Mid-Ebb	Sunny	IS7	12:22:07	1.0	Surface	1	1	16.68	8.03	33.31	102.4	8.15	7.1	4.6
HCLR	HY/2011/03	2014-01-01	Mid-Ebb	Sunny	IS7	12:21:28	1.0	Surface	1	2	16.68	8.02	33.31	102.1	8.13	7.3	3.6
HCLR	HY/2011/03	2014-01-01	Mid-Ebb	Sunny	IS7			Middle	2	1							
HCLR	HY/2011/03	2014-01-01	Mid-Ebb	Sunny	IS7			Middle	2	2							
HCLR	HY/2011/03	2014-01-01	Mid-Ebb	Sunny	IS7	12:21:08	2.2	Bottom	3	1	16.44	8.01	33.33	101.7	8.13	8.2	4.3
HCLR	HY/2011/03	2014-01-01	Mid-Ebb	Sunny	IS7	12:21:47	2.2	Bottom	3	2	16.45	8.02	33.3	101.9	8.14	7.8	5.1
HCLR	HY/2011/03	2014-01-01	Mid-Ebb	Sunny	IS8	12:55:02	1.0	Surface	1	1	16.68	8.04	33.3	100.8	8.01	5.3	2.5
HCLR	HY/2011/03	2014-01-01	Mid-Ebb	Sunny	IS8	12:55:42	1.0	Surface	1	2	16.71	8.05	33.29	100.7	8	5.6	2.7
HCLR	HY/2011/03	2014-01-01	Mid-Ebb	Sunny	IS8			Middle	2	1							
HCLR	HY/2011/03	2014-01-01	Mid-Ebb	Sunny	IS8			Middle	2	2							
HCLR	HY/2011/03	2014-01-01	Mid-Ebb	Sunny	IS8	12:54:44	2.6	Bottom	3	1	16.68	8.04	33.35	100.7	8.01	5.6	2.7
HCLR	HY/2011/03	2014-01-01	Mid-Ebb	Sunny	IS8	12:55:22	2.6	Bottom	3	2	16.68	8.04	33.36	100.7	8.01	5.6	3.1
HCLR	HY/2011/03	2014-01-01	Mid-Ebb	Sunny	IS(M)F9	12:29:43	1.0	Surface	1	1	16.37	8.05	33.29	105.5	8.46	7.1	4.9
HCLR	HY/2011/03	2014-01-01	Mid-Ebb	Sunny	IS(M)F9	12:29:11	1.0	Surface	1	2	16.36	8.05	33.29	105.5	8.46	6.9	4
HCLR	HY/2011/03	2014-01-01	Mid-Ebb	Sunny	IS(M)F9			Middle	2	1							
HCLR	HY/2011/03	2014-01-01	Mid-Ebb	Sunny	IS(M)F9			Middle	2	2							
HCLR	HY/2011/03	2014-01-01	Mid-Ebb	Sunny	IS(M)F9	12:28:54	2.3	Bottom	3	1	16.27	8.05	33.25	105.3	8.45	7.5	3.8
HCLR	HY/2011/03	2014-01-01	Mid-Ebb	Sunny	IS(M)F9	12:29:27	2.3	Bottom	3	2	16.27	8.05	33.25	105.4	8.45	7.8	3.8
HCLR	HY/2011/03	2014-01-01	Mid-Ebb	Sunny	IS10	12:54:21	1.0	Surface	1	1	16.78	8.22	33.48	98.5	7.82	5.7	4.9
HCLR	HY/2011/03	2014-01-01	Mid-Ebb	Sunny	IS10	12:55:19	1.0	Surface	1	2	16.78	8.22	33.47	98.5	7.81	5.7	5.2
HCLR	HY/2011/03	2014-01-01	Mid-Ebb	Sunny	IS10	12:54:01	5.2	Middle	2	1	16.6	8.22	33.52	97.6	7.77	7.1	6.3
HCLR	HY/2011/03	2014-01-01	Mid-Ebb	Sunny	IS10	12:54:57	5.2	Middle	2	2	16.6	8.22	33.52	97.5	7.75	7.2	6.4
HCLR	HY/2011/03	2014-01-01	Mid-Ebb	Sunny	IS10	12:54:41	9.3	Bottom	3	1	16.6	8.22	33.52	97.6	7.77	7.6	5.6
HCLR	HY/2011/03	2014-01-01	Mid-Ebb	Sunny	IS10	12:53:39	9.3	Bottom	3	2	16.6	8.21	33.52	98	7.8	7.9	6.1
HCLR	HY/2011/03	2014-01-01	Mid-Ebb	Sunny	SR3			Surface	1	1							
HCLR	HY/2011/03	2014-01-01	Mid-Ebb	Sunny	SR3			Surface	1	2							
HCLR	HY/2011/03	2014-01-01	Mid-Ebb	Sunny	SR3	11:46:29	0.7	Middle	2	1	16.21	7.97	33.15	101.6	8.17	5.4	5.4
HCLR	HY/2011/03	2014-01-01	Mid-Ebb	Sunny	SR3	11:46:11	0.7	Middle	2	2	16.21	7.96	33.15	101.9	8.19	5.5	3.9
HCLR	HY/2011/03	2014-01-01	Mid-Ebb	Sunny	SR3			Bottom	3	1							
HCLR	HY/2011/03	2014-01-01	Mid-Ebb	Sunny	SR3			Bottom	3	2							
HCLR	HY/2011/03	2014-01-01	Mid-Ebb	Sunny	SR4	12:43:18	1.0	Surface	1	1	16.72	8.02	33.31	100.6	8	5.7	2.9
HCLR	HY/2011/03	2014-01-01	Mid-Ebb	Sunny	SR4	12:43:57	1.0	Surface	1	2	16.7	8.03	33.33	100.5	7.99	5.8	2.5
HCLR	HY/2011/03	2014-01-01	Mid-Ebb	Sunny	SR4			Middle	2	1							
HCLR	HY/2011/03	2014-01-01	Mid-Ebb	Sunny	SR4			Middle	2	2							
HCLR	HY/2011/03	2014-01-01	Mid-Ebb	Sunny	SR4	12:43:41	2.4	Bottom	3	1	16.7	8.02	33.37	100.5	7.99	6.1	3.3
HCLR	HY/2011/03	2014-01-01	Mid-Ebb	Sunny	SR4	12:43:00	2.4	Bottom	3	2	16.7	8.02	33.37	100.5	7.99	6	3.6
HCLR	HY/2011/03	2014-01-01	Mid-Ebb	Sunny	SR5	12:46:55	1.0	Surface	1	1	16.73	8.22	33.48	98.6	7.83	6.2	5.3
HCLR	HY/2011/03	2014-01-01	Mid-Ebb	Sunny	SR5	12:47:17	1.0	Surface	1	2	16.79	8.22	33.48	98.7	7.83	5.8	6.1
HCLR	HY/2011/03	2014-01-01	Mid-Ebb	Sunny	SR5			Middle	2	1							
HCLR	HY/2011/03	2014-01-01	Mid-Ebb	Sunny	SR5			Middle	2	2							
HCLR	HY/2011/03	2014-01-01	Mid-Ebb	Sunny	SR5	12:46:43	4.5	Bottom	3	1	16.63	8.21	33.5	98.5	7.83	6.4	5.8
HCLR	HY/2011/03	2014-01-01	Mid-Ebb	Sunny	SR5	12:47:06	4.5	Bottom	3	2	16.66	8.22	33.49	98.4	7.82	6.6	5.8
HCLR	HY/2011/03	2014-01-01	Mid-Ebb	Sunny	SR10A	14:00:55	1.0	Surface	1	1	17.4	8.01	33.58	93	7.28	3.5	2.8
HCLR	HY/2011/03	2014-01-01	Mid-Ebb	Sunny	SR10A	13:59:44	1.0	Surface	1	2	17.39	8	33.57	93	7.29	3.3	3.8
HCLR	HY/2011/03	2014-01-01	Mid-Ebb	Sunny	SR10A	13:59:23	3.3	Middle	2	1	17.39	8	33.58	92.9	7.27	3.4	3.2
HCLR	HY/2011/03	2014-01-01	Mid-Ebb	Sunny	SR10A	14:00:38	3.3	Middle	2	2	17.38	8.01	33.59	92.8	7.27	3.4	3
HCLR	HY/2011/03	2014-01-01	Mid-Ebb	Sunny	SR10A	13:59:02	5.6	Bottom	3	1	17.38	8	33.59	92.8	7.27	3.3	4.5
HCLR	HY/2011/03	2014-01-01	Mid-Ebb	Sunny	SR10A	14:00:14	5.6	Bottom	3	2	17.39	8.01	33.59	92.8	7.27	3.5	4
HCLR	HY/2011/03	2014-01-01	Mid-Ebb	Sunny	SR10B	14:12:47	1.0	Surface	1	1	17.37	8.02	33.55	93.1	7.29	3.8	3.8
HCLR	HY/2011/03	2014-01-01	Mid-Ebb	Sunny	SR10B	14:12:07	1.0	Surface	1	2	17.38	8.02	33.54	93.4	7.31	3.9	2.9

Water Quarterly Monitoring Data

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HCLR	HY/2011/03		Mid-Ebb		SR10B			Middle	2	1							
HCLR	HY/2011/03		Mid-Ebb		SR10B			Middle	2	2							
HCLR	HY/2011/03	2014-01-01	Mid-Ebb	Sunny	SR10B	14:11:47	4.5	Bottom	3	1	17.37	8.02	33.48	93.4	7.32	4.1	2.8
HCLR	HY/2011/03	2014-01-01	Mid-Ebb	Sunny	SR10B	14:12:26	4.5	Bottom	3	2	17.37	8.02	33.52	93	7.29	4.3	2.2
HCLR	HY/2011/03	2014-01-01	Mid-Ebb	Sunny	CS2	11:30:59	1.0	Surface	1	1	16.9	8.25	33.41	98.5	7.8	3.2	5.1
HCLR	HY/2011/03	2014-01-01	Mid-Ebb	Sunny	CS2	11:30:14	1.0	Surface	1	2	17.01	8.25	33.41	99.5	7.86	3.1	5.3
HCLR	HY/2011/03	2014-01-01	Mid-Ebb	Sunny	CS2	11:29:53	3.5	Middle	2	1	16.85	8.26	33.41	99.4	7.87	4.1	4.9
HCLR	HY/2011/03	2014-01-01	Mid-Ebb	Sunny	CS2	11:30:45	3.5	Middle	2	2	16.81	8.25	33.41	98	7.77	4	4.5
HCLR	HY/2011/03	2014-01-01	Mid-Ebb	Sunny	CS2	11:29:29	5.9	Bottom	3	1	16.71	8.26	33.41	100.1	7.95	6.3	5.3
HCLR	HY/2011/03	2014-01-01	Mid-Ebb	Sunny	CS2	11:30:34	5.9	Bottom	3	2	16.71	8.25	33.41	97.9	7.78	6.2	4.5
HCLR	HY/2011/03	2014-01-01	Mid-Ebb	Sunny	CS1(MF)5	13:32:42	1.0	Surface	1	1	17.34	8.03	33.47	95.3	7.46	3.6	2
HCLR	HY/2011/03	2014-01-01	Mid-Ebb	Sunny	CS1(MF)5	13:31:36	1.0	Surface	1	2	17.33	8.03	33.45	95.2	7.45	3.9	2.7
HCLR	HY/2011/03	2014-01-01	Mid-Ebb	Sunny	CS1(MF)5	13:31:13	6.5	Middle	2	1	17.35	8.02	33.54	94.1	7.38	4.6	2.4
HCLR	HY/2011/03	2014-01-01	Mid-Ebb	Sunny	CS1(MF)5	13:32:18	6.5	Middle	2	2	17.36	8.03	33.57	94.3	7.39	4.4	2.9
HCLR	HY/2011/03	2014-01-01	Mid-Ebb	Sunny	CS1(MF)5	13:30:51	12.0	Bottom	3	1	17.37	8.01	33.58	94.4	7.39	4.8	3
HCLR	HY/2011/03	2014-01-01	Mid-Ebb	Sunny	CS1(MF)5	13:31:55	12.0	Bottom	3	2	17.38	8.02	33.59	94.4	7.4	4.9	2.5
HCLR	HY/2011/03	2014-01-01	Mid-Flood	Sunny	IS5	08:15:36	1.0	Surface	1	1	16.16	8.04	33.24	99.8	8.02	6.5	4.5
HCLR	HY/2011/03	2014-01-01	Mid-Flood	Sunny	IS5	08:16:40	1.0	Surface	1	2	16.16	8.05	33.24	99.6	8	6.7	4.8
HCLR	HY/2011/03	2014-01-01	Mid-Flood	Sunny	IS5	08:16:18	4.2	Middle	2	1	16.15	8.05	33.27	99.3	7.98	7.8	4.7
HCLR	HY/2011/03	2014-01-01	Mid-Flood	Sunny	IS5	08:15:14	4.2	Middle	2	2	16.15	8.04	33.26	99.6	8	7.5	4.9
HCLR	HY/2011/03	2014-01-01	Mid-Flood	Sunny	IS5	08:14:49	7.4	Bottom	3	1	16.14	8.04	33.28	99.4	7.99	9	5.1
HCLR	HY/2011/03	2014-01-01	Mid-Flood	Sunny	IS5	08:15:57	7.4	Bottom	3	2	16.14	8.04	33.28	99.1	7.96	8.8	5.4
HCLR	HY/2011/03	2014-01-01	Mid-Flood	Sunny	IS1(MF)6	08:03:06	1.0	Surface	1	1	16.12	8.02	33.25	98.8	7.94	8.6	5.1
HCLR	HY/2011/03	2014-01-01	Mid-Flood	Sunny	IS1(MF)6	08:03:47	1.0	Surface	1	2	16.13	8.03	33.25	98.6	7.92	9.2	5.9
HCLR	HY/2011/03		Mid-Flood		IS1(MF)6			Middle	2	1							
HCLR	HY/2011/03		Mid-Flood		IS1(MF)6			Middle	2	2							
HCLR	HY/2011/03	2014-01-01	Mid-Flood	Sunny	IS1(MF)6	08:03:27	2.3	Bottom	3	1	16.13	8.02	33.29	98.7	7.93	9.8	5.5
HCLR	HY/2011/03	2014-01-01	Mid-Flood	Sunny	IS1(MF)6	08:02:47	2.3	Bottom	3	2	16.14	8.02	33.3	98.9	7.95	9.6	5.2
HCLR	HY/2011/03	2014-01-01	Mid-Flood	Sunny	IS7	07:54:06	1.0	Surface	1	1	16.33	8.03	33.33	98.1	7.85	12.9	12.3
HCLR	HY/2011/03	2014-01-01	Mid-Flood	Sunny	IS7	07:54:39	1.0	Surface	1	2	16.34	8.03	33.35	98	7.84	13.5	12.5
HCLR	HY/2011/03		Mid-Flood		IS7			Middle	2	1							
HCLR	HY/2011/03		Mid-Flood		IS7			Middle	2	2							
HCLR	HY/2011/03	2014-01-01	Mid-Flood	Sunny	IS7	07:54:23	2.3	Bottom	3	1	16.34	8.03	33.38	98.1	7.85	14.3	11.4
HCLR	HY/2011/03	2014-01-01	Mid-Flood	Sunny	IS7	07:53:46	2.3	Bottom	3	2	16.35	8.03	33.4	98.3	7.86	13.8	12.3
HCLR	HY/2011/03	2014-01-01	Mid-Flood	Sunny	IS8	07:21:25	1.0	Surface	1	1	16.48	8.02	33.23	98.5	7.86	6.4	7.3
HCLR	HY/2011/03	2014-01-01	Mid-Flood	Sunny	IS8	07:22:04	1.0	Surface	1	2	16.49	8.02	33.23	98.7	7.88	6.8	6.2
HCLR	HY/2011/03		Mid-Flood		IS8			Middle	2	1							
HCLR	HY/2011/03		Mid-Flood		IS8			Middle	2	2							
HCLR	HY/2011/03	2014-01-01	Mid-Flood	Sunny	IS8	07:21:04	2.7	Bottom	3	1	16.51	8.01	33.24	98.4	7.85	7.2	5.6
HCLR	HY/2011/03	2014-01-01	Mid-Flood	Sunny	IS8	07:21:42	2.7	Bottom	3	2	16.5	8.02	33.24	98.5	7.86	7.3	5.2
HCLR	HY/2011/03	2014-01-01	Mid-Flood	Sunny	IS1(MF)9	07:46:57	1.0	Surface	1	1	16.16	8.04	33.27	101.3	8.14	12.1	8.4
HCLR	HY/2011/03	2014-01-01	Mid-Flood	Sunny	IS1(MF)9	07:46:18	1.0	Surface	1	2	16.15	8.04	33.28	101.2	8.13	12.4	6.8
HCLR	HY/2011/03		Mid-Flood		IS1(MF)9			Middle	2	1							
HCLR	HY/2011/03		Mid-Flood		IS1(MF)9			Middle	2	2							
HCLR	HY/2011/03	2014-01-01	Mid-Flood	Sunny	IS1(MF)9	07:46:37	2.4	Bottom	3	1	16.11	8.04	33.29	101.1	8.12	13	7.7
HCLR	HY/2011/03	2014-01-01	Mid-Flood	Sunny	IS1(MF)9	07:45:58	2.4	Bottom	3	2	16.11	8.03	33.29	101.1	8.12	13.1	9
HCLR	HY/2011/03	2014-01-01	Mid-Flood	Sunny	IS10	07:31:49	1.0	Surface	1	1	16.64	8.21	33.63	98.7	7.84	5.5	8.4
HCLR	HY/2011/03	2014-01-01	Mid-Flood	Sunny	IS10	07:30:59	1.0	Surface	1	2	16.61	8.2	33.63	98.9	7.86	5.1	7.7
HCLR	HY/2011/03	2014-01-01	Mid-Flood	Sunny	IS10	07:30:41	5.3	Middle	2	1	16.64	8.2	33.63	98.6	7.83	6.1	7.9
HCLR	HY/2011/03	2014-01-01	Mid-Flood	Sunny	IS10	07:31:29	5.3	Middle	2	2	16.64	8.21	33.64	98.4	7.81	6	6.4
HCLR	HY/2011/03	2014-01-01	Mid-Flood	Sunny	IS10	07:30:32	9.6	Bottom	3	1	16.64	8.2	33.63	98.5	7.83	6.3	7.6
HCLR	HY/2011/03	2014-01-01	Mid-Flood	Sunny	IS10	07:31:17	9.6	Bottom	3	2	16.64	8.2	33.64	98.5	7.82	6.5	9.3
HCLR	HY/2011/03		Mid-Flood		SR3			Surface	1	1							
HCLR	HY/2011/03		Mid-Flood		SR3			Surface	1	2							
HCLR	HY/2011/03	2014-01-01	Mid-Flood	Sunny	SR3	08:26:05	0.8	Middle	2	1	16.17	8.05	33.23	100.4	8.06	6.4	4.6
HCLR	HY/2011/03	2014-01-01	Mid-Flood	Sunny	SR3	08:26:21	0.8	Middle	2	2	16.17	8.05	33.24	100.3	8.06	6.6	5.4
HCLR	HY/2011/03		Mid-Flood		SR3			Bottom	3	1							
HCLR	HY/2011/03		Mid-Flood		SR3			Bottom	3	2							
HCLR	HY/2011/03	2014-01-01	Mid-Flood	Sunny	SR4	07:33:05	1.0	Surface	1	1	16.52	8.04	33.26	98.6	7.86	7.2	7.8
HCLR	HY/2011/03	2014-01-01	Mid-Flood	Sunny	SR4	07:33:44	1.0	Surface	1	2	16.51	8.04	33.26	98.5	7.86	7.5	7.7
HCLR	HY/2011/03		Mid-Flood		SR4			Middle	2	1							
HCLR	HY/2011/03		Mid-Flood		SR4			Middle	2	2							

Water Quarterly Monitoring Data

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HCLR	HY/2011/03	2014-01-01	Mid-Flood	Sunny	SR4	07:32:47	2.4	Bottom	3	1	16.52	8.04	33.36	98.5	7.86	7.8	10.7
HCLR	HY/2011/03	2014-01-01	Mid-Flood	Sunny	SR4	07:33:26	2.4	Bottom	3	2	16.51	8.04	33.26	98.4	7.85	7.9	11.1
HCLR	HY/2011/03	2014-01-01	Mid-Flood	Sunny	SR5	07:38:27	1.0	Surface	1	1	16.63	8.21	33.63	98.6	7.84	6.2	7.6
HCLR	HY/2011/03	2014-01-01	Mid-Flood	Sunny	SR5	07:38:04	1.0	Surface	1	2	16.64	8.21	33.63	98.6	7.83	6.4	8.1
HCLR	HY/2011/03		Mid-Flood		SR5			Middle	2	1							
HCLR	HY/2011/03		Mid-Flood		SR5			Middle	2	2							
HCLR	HY/2011/03	2014-01-01	Mid-Flood	Sunny	SR5	07:37:53	4.6	Bottom	3	1	16.64	8.21	33.64	98.4	7.82	6.2	7.8
HCLR	HY/2011/03	2014-01-01	Mid-Flood	Sunny	SR5	07:38:14	4.6	Bottom	3	2	16.63	8.21	33.63	98.4	7.82	6.3	6.9
HCLR	HY/2011/03	2014-01-01	Mid-Flood	Sunny	SR5	06:16:18	1.0	Surface	1	1	17.2	8.04	33.45	94.3	7.41	7.5	6.3
HCLR	HY/2011/03	2014-01-01	Mid-Flood	Sunny	SR10A	06:15:16	1.0	Surface	1	2	17.2	8.03	33.44	94.3	7.42	7.5	4.9
HCLR	HY/2011/03	2014-01-01	Mid-Flood	Sunny	SR10A	06:14:59	3.2	Middle	2	1	17.22	8.03	33.46	94.2	7.4	7.8	6.9
HCLR	HY/2011/03	2014-01-01	Mid-Flood	Sunny	SR10A	06:15:58	3.2	Middle	2	2	17.21	8.04	33.46	94.1	7.39	7.6	7.8
HCLR	HY/2011/03	2014-01-01	Mid-Flood	Sunny	SR10A	06:14:37	5.4	Bottom	3	1	17.21	8.03	33.46	94.2	7.4	8.3	8.3
HCLR	HY/2011/03	2014-01-01	Mid-Flood	Sunny	SR10A	06:15:38	5.4	Bottom	3	2	17.21	8.04	33.46	94	7.39	8.3	7.2
HCLR	HY/2011/03	2014-01-01	Mid-Flood	Sunny	SR10B	06:02:32	1.0	Surface	1	1	17.22	8.01	33.4	94.2	7.4	9.3	8.2
HCLR	HY/2011/03	2014-01-01	Mid-Flood	Sunny	SR10B	06:01:47	1.0	Surface	1	2	17.22	8	33.39	94.4	7.42	9.4	8.2
HCLR	HY/2011/03		Mid-Flood		SR10B			Middle	2	1							
HCLR	HY/2011/03		Mid-Flood		SR10B			Middle	2	2							
HCLR	HY/2011/03	2014-01-01	Mid-Flood	Sunny	SR10B	06:02:14	4.4	Bottom	3	1	17.22	8.01	33.4	94.1	7.4	8.9	9.3
HCLR	HY/2011/03	2014-01-01	Mid-Flood	Sunny	SR10B	06:01:29	4.4	Bottom	3	2	17.22	8	33.39	94.4	7.42	8.9	8.7
HCLR	HY/2011/03	2014-01-01	Mid-Flood	Sunny	CS2	08:51:57	1.0	Surface	1	1	16.89	8.19	33.54	96.1	7.6	11.4	11.8
HCLR	HY/2011/03	2014-01-01	Mid-Flood	Sunny	CS2	08:52:33	1.0	Surface	1	2	16.89	8.2	33.54	96.1	7.6	11.1	11.6
HCLR	HY/2011/03	2014-01-01	Mid-Flood	Sunny	CS2	08:52:21	3.6	Middle	2	1	16.87	8.2	33.57	96	7.59	13.1	11.8
HCLR	HY/2011/03	2014-01-01	Mid-Flood	Sunny	CS2	08:51:44	3.6	Middle	2	2	16.87	8.2	33.57	95.9	7.59	13.2	10.8
HCLR	HY/2011/03	2014-01-01	Mid-Flood	Sunny	CS2	08:51:30	6.2	Bottom	3	1	16.83	8.2	33.61	95.6	7.57	13.6	11.1
HCLR	HY/2011/03	2014-01-01	Mid-Flood	Sunny	CS2	08:52:09	6.2	Bottom	3	2	16.84	8.2	33.6	95.7	7.58	13.8	13.4
HCLR	HY/2011/03	2014-01-01	Mid-Flood	Sunny	CS(MWF)	06:46:44	1.0	Surface	1	1	16.94	8.02	33.26	96.1	7.6	10.9	7.8
HCLR	HY/2011/03	2014-01-01	Mid-Flood	Sunny	CS(MWF)	06:47:55	1.0	Surface	1	2	16.94	8.03	33.27	96.1	7.6	10.5	8.6
HCLR	HY/2011/03	2014-01-01	Mid-Flood	Sunny	CS(MWF)	06:47:31	6.6	Middle	2	1	16.95	8.03	33.3	95.8	7.57	11.8	9.3
HCLR	HY/2011/03	2014-01-01	Mid-Flood	Sunny	CS(MWF)	06:46:21	6.6	Middle	2	2	16.95	8.02	33.28	95.7	7.56	12.5	9.3
HCLR	HY/2011/03	2014-01-01	Mid-Flood	Sunny	CS(MWF)	06:45:56	12.1	Bottom	3	1	16.95	8.02	33.29	95.5	7.55	14.9	8.6
HCLR	HY/2011/03	2014-01-01	Mid-Flood	Sunny	CS(MWF)	06:47:11	12.1	Bottom	3	2	16.95	8.03	33.3	95.5	7.55	13.5	9.8
HCLR	HY/2011/03	2014-01-03	Mid-Ebb	Sunny	IS5	13:47:35	1.0	Surface	1	1	17.16	8.01	32.93	98.8	7.8	12.3	13.3
HCLR	HY/2011/03	2014-01-03	Mid-Ebb	Sunny	IS5	13:48:10	1.0	Surface	1	2	17.15	8.01	32.92	98.6	7.79	12.1	13.4
HCLR	HY/2011/03	2014-01-03	Mid-Ebb	Sunny	IS5	13:47:59	4.3	Middle	2	1	17.17	8.01	32.94	98.6	7.78	12.7	13
HCLR	HY/2011/03	2014-01-03	Mid-Ebb	Sunny	IS5	13:47:25	4.3	Middle	2	2	17.18	8.01	32.94	98.7	7.79	12.5	13.3
HCLR	HY/2011/03	2014-01-03	Mid-Ebb	Sunny	IS5	13:47:47	7.6	Bottom	3	1	17.19	8.01	32.95	98.4	7.77	12.7	12.3
HCLR	HY/2011/03	2014-01-03	Mid-Ebb	Sunny	IS5	13:47:12	7.6	Bottom	3	2	17.21	8.01	32.95	98.6	7.78	12.4	12.5
HCLR	HY/2011/03	2014-01-03	Mid-Ebb	Sunny	IS(MWF)	13:54:59	1.0	Surface	1	1	17.35	8.03	32.9	100.4	7.9	11	6.5
HCLR	HY/2011/03	2014-01-03	Mid-Ebb	Sunny	IS(MWF)	13:54:36	1.0	Surface	1	2	17.32	8.02	32.91	100.5	7.92	10.7	7.5
HCLR	HY/2011/03		Mid-Ebb		IS(MWF)			Middle	2	1							
HCLR	HY/2011/03		Mid-Ebb		IS(MWF)			Middle	2	2							
HCLR	HY/2011/03	2014-01-03	Mid-Ebb	Sunny	IS(MWF)	13:54:21	2.1	Bottom	3	1	17.28	8.02	32.91	100.3	7.9	11.6	7.9
HCLR	HY/2011/03	2014-01-03	Mid-Ebb	Sunny	IS(MWF)	13:54:47	2.1	Bottom	3	2	17.29	8.02	32.9	100.2	7.9	11.3	7.1
HCLR	HY/2011/03	2014-01-03	Mid-Ebb	Sunny	IS7	14:02:48	1.0	Surface	1	1	17.09	8.03	32.92	99.3	7.85	14.1	13
HCLR	HY/2011/03	2014-01-03	Mid-Ebb	Sunny	IS7	14:02:25	1.0	Surface	1	2	17.1	8.03	32.9	99.2	7.85	13.8	14.1
HCLR	HY/2011/03		Mid-Ebb		IS7			Middle	2	1							
HCLR	HY/2011/03		Mid-Ebb		IS7			Middle	2	2							
HCLR	HY/2011/03	2014-01-03	Mid-Ebb	Sunny	IS7	14:02:41	2.1	Bottom	3	1	17.04	8.03	32.89	99.1	7.85	14.8	12.2
HCLR	HY/2011/03	2014-01-03	Mid-Ebb	Sunny	IS7	14:02:14	2.1	Bottom	3	2	17.03	8.03	32.89	99	7.84	15.7	13.2
HCLR	HY/2011/03	2014-01-03	Mid-Ebb	Sunny	IS8	14:28:56	1.0	Surface	1	1	17.72	8.06	32.8	105.9	8.28	5.2	3.9
HCLR	HY/2011/03	2014-01-03	Mid-Ebb	Sunny	IS8	14:28:38	1.0	Surface	1	2	17.66	8.06	32.81	105.5	8.26	5.1	4.7
HCLR	HY/2011/03		Mid-Ebb		IS8			Middle	2	1							
HCLR	HY/2011/03		Mid-Ebb		IS8			Middle	2	2							
HCLR	HY/2011/03	2014-01-03	Mid-Ebb	Sunny	IS8	14:28:45	2.9	Bottom	3	1	17.63	8.06	32.76	105.3	8.25	5.4	4.4
HCLR	HY/2011/03	2014-01-03	Mid-Ebb	Sunny	IS8	14:28:27	2.9	Bottom	3	2	17.4	8.05	32.8	104.8	8.24	5.3	4.1
HCLR	HY/2011/03	2014-01-03	Mid-Ebb	Sunny	IS(MWF)	14:10:04	1.0	Surface	1	1	17.93	8.06	32.92	104.8	8.16	10.3	4.2
HCLR	HY/2011/03	2014-01-03	Mid-Ebb	Sunny	IS(MWF)	14:09:41	1.0	Surface	1	2	17.99	8.06	32.9	105.1	8.17	10.2	4
HCLR	HY/2011/03		Mid-Ebb		IS(MWF)			Middle	2	1							
HCLR	HY/2011/03		Mid-Ebb		IS(MWF)			Middle	2	2							
HCLR	HY/2011/03	2014-01-03	Mid-Ebb	Sunny	IS(MWF)	14:09:28	2.6	Bottom	3	1	17.23	8.05	32.83	103.5	8.17	10.5	6.2
HCLR	HY/2011/03	2014-01-03	Mid-Ebb	Sunny	IS(MWF)	14:09:52	2.6	Bottom	3	2	17.24	8.05	32.83	103.3	8.15	10.4	6.8

Water Quarterly Monitoring Data

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HLR	HY/2011/03	2014-01-03	Mid-Ebb	Sunny	IS10	14:28:49	1.0	Surface	1	1	17.27	8.17	31.34	93.8	7.47	5.1	7.6
HLR	HY/2011/03	2014-01-03	Mid-Ebb	Sunny	IS10	14:29:48	1.0	Surface	1	2	17.25	8.17	31.34	93.9	7.47	4.9	6.6
HLR	HY/2011/03	2014-01-03	Mid-Ebb	Sunny	IS10	14:28:33	5.0	Middle	2	1	17.22	8.2	32.24	94.1	7.45	4.5	7.3
HLR	HY/2011/03	2014-01-03	Mid-Ebb	Sunny	IS10	14:29:31	5.0	Middle	2	2	17.26	8.2	32.26	94.2	7.46	4.4	7.6
HLR	HY/2011/03	2014-01-03	Mid-Ebb	Sunny	IS10	14:28:13	9.0	Bottom	3	1	17.22	8.19	32.26	93.4	7.4	6.9	6.9
HLR	HY/2011/03	2014-01-03	Mid-Ebb	Sunny	IS10	14:29:18	9.0	Bottom	3	2	17.12	8.2	32.31	93.7	7.44	7	7.6
HLR	HY/2011/03	2014-01-03	Mid-Ebb	Sunny	SR3			Surface	1	1							
HLR	HY/2011/03	2014-01-03	Mid-Ebb	Sunny	SR3			Surface	2	2							
HLR	HY/2011/03	2014-01-03	Mid-Ebb	Sunny	SR3	13:40:36	0.7	Middle	2	1	17.63	8.02	32.97	102.7	8.04	9	8.2
HLR	HY/2011/03	2014-01-03	Mid-Ebb	Sunny	SR3	13:40:45	0.7	Middle	2	2	17.64	8.02	32.97	103.1	8.06	8.7	8.6
HLR	HY/2011/03	2014-01-03	Mid-Ebb	Sunny	SR3			Bottom	3	1							
HLR	HY/2011/03	2014-01-03	Mid-Ebb	Sunny	SR3			Bottom	3	2							
HLR	HY/2011/03	2014-01-03	Mid-Ebb	Sunny	SR4	14:22:25	1.0	Surface	1	1	17.53	8.03	32.72	100.1	7.86	8.6	7.8
HLR	HY/2011/03	2014-01-03	Mid-Ebb	Sunny	SR4	14:21:59	1.0	Surface	1	2	17.53	8.03	32.73	99.8	7.84	8.8	7.8
HLR	HY/2011/03	2014-01-03	Mid-Ebb	Sunny	SR4			Middle	2	1							
HLR	HY/2011/03	2014-01-03	Mid-Ebb	Sunny	SR4			Middle	2	2							
HLR	HY/2011/03	2014-01-03	Mid-Ebb	Sunny	SR4	14:22:09	2.6	Bottom	3	1	17.53	8.03	32.72	99.8	7.84	8.8	8.1
HLR	HY/2011/03	2014-01-03	Mid-Ebb	Sunny	SR4	14:21:48	2.6	Bottom	3	2	17.47	8.02	32.73	99.5	7.82	8.6	8.9
HLR	HY/2011/03	2014-01-03	Mid-Ebb	Sunny	SR5	14:20:43	1.0	Surface	1	1	17.26	8.18	31.44	94	7.48	4.8	7.6
HLR	HY/2011/03	2014-01-03	Mid-Ebb	Sunny	SR5	14:20:18	1.0	Surface	1	2	17.25	8.18	31.46	94	7.48	5	7.8
HLR	HY/2011/03	2014-01-03	Mid-Ebb	Sunny	SR5			Middle	2	1							
HLR	HY/2011/03	2014-01-03	Mid-Ebb	Sunny	SR5			Middle	2	2							
HLR	HY/2011/03	2014-01-03	Mid-Ebb	Sunny	SR5	14:20:09	4.5	Bottom	3	1	17.32	8.18	32.1	93.9	7.43	4.7	7.9
HLR	HY/2011/03	2014-01-03	Mid-Ebb	Sunny	SR5	14:20:32	4.5	Bottom	3	2	17.34	8.19	32.14	94	7.43	4.5	8
HLR	HY/2011/03	2014-01-03	Mid-Ebb	Sunny	SR10A	15:28:10	1.0	Surface	1	1	17.57	8.02	32.99	96.2	7.53	3.5	2.9
HLR	HY/2011/03	2014-01-03	Mid-Ebb	Sunny	SR10A	15:29:08	1.0	Surface	1	2	17.51	8.03	32.99	95.7	7.5	3.7	3.2
HLR	HY/2011/03	2014-01-03	Mid-Ebb	Sunny	SR10A	15:27:57	3.3	Middle	2	1	17.45	8.02	33.02	95.6	7.51	3.6	2.6
HLR	HY/2011/03	2014-01-03	Mid-Ebb	Sunny	SR10A	15:28:56	3.3	Middle	2	2	17.46	8.02	33.03	95.3	7.48	3.7	2.7
HLR	HY/2011/03	2014-01-03	Mid-Ebb	Sunny	SR10A	15:27:41	5.6	Bottom	3	1	17.45	8.02	33.02	95.9	7.52	3.6	4
HLR	HY/2011/03	2014-01-03	Mid-Ebb	Sunny	SR10A	15:28:41	5.6	Bottom	3	2	17.42	8.02	33.05	95.1	7.47	3.6	4.5
HLR	HY/2011/03	2014-01-03	Mid-Ebb	Sunny	SR10B	15:34:06	1.0	Surface	1	1	17.42	8.02	33.04	94.8	7.46	4.9	4.4
HLR	HY/2011/03	2014-01-03	Mid-Ebb	Sunny	SR10B	15:33:40	1.0	Surface	1	2	17.42	8.02	33.04	95	7.46	5	5.7
HLR	HY/2011/03	2014-01-03	Mid-Ebb	Sunny	SR10B			Middle	2	1							
HLR	HY/2011/03	2014-01-03	Mid-Ebb	Sunny	SR10B			Middle	2	2							
HLR	HY/2011/03	2014-01-03	Mid-Ebb	Sunny	SR10B	15:33:26	4.0	Bottom	3	1	17.42	8.02	33.05	94.7	7.44	4.8	4.8
HLR	HY/2011/03	2014-01-03	Mid-Ebb	Sunny	SR10B	15:33:53	4.0	Bottom	3	2	17.42	8.02	33.05	94.7	7.44	4.8	4.9
HLR	HY/2011/03	2014-01-03	Mid-Ebb	Sunny	CS2	13:06:16	1.0	Surface	1	1	17.4	8.18	31.71	94.8	7.51	5.3	7.3
HLR	HY/2011/03	2014-01-03	Mid-Ebb	Sunny	CS2	13:05:21	1.0	Surface	1	2	17.64	8.19	31.55	95.1	7.5	5	6.7
HLR	HY/2011/03	2014-01-03	Mid-Ebb	Sunny	CS2	13:05:05	3.6	Middle	2	1	17.33	8.22	32.23	95.2	7.53	4.6	7.3
HLR	HY/2011/03	2014-01-03	Mid-Ebb	Sunny	CS2	13:05:57	3.6	Middle	2	2	17.33	8.2	32.18	95.2	7.53	4.4	6.7
HLR	HY/2011/03	2014-01-03	Mid-Ebb	Sunny	CS2	13:04:44	6.2	Bottom	3	1	17.19	8.23	32.49	95.1	7.53	4.5	7.5
HLR	HY/2011/03	2014-01-03	Mid-Ebb	Sunny	CS2	13:05:43	6.2	Bottom	3	2	17.24	8.21	32.38	94.5	7.48	4.5	8.4
HLR	HY/2011/03	2014-01-03	Mid-Ebb	Sunny	CS(M)F5	15:04:56	1.0	Surface	1	1	17.48	8.02	32.59	95.5	7.51	5.7	5.1
HLR	HY/2011/03	2014-01-03	Mid-Ebb	Sunny	CS(M)F5	15:03:43	1.0	Surface	1	2	17.47	8.02	32.6	95.3	7.5	5.9	5.1
HLR	HY/2011/03	2014-01-03	Mid-Ebb	Sunny	CS(M)F5	15:03:21	6.0	Middle	2	1	17.22	8.02	32.74	93.2	7.36	6.2	5.2
HLR	HY/2011/03	2014-01-03	Mid-Ebb	Sunny	CS(M)F5	15:04:34	6.0	Middle	2	2	17.25	8.02	32.7	93.8	7.41	6.2	5.4
HLR	HY/2011/03	2014-01-03	Mid-Ebb	Sunny	CS(M)F5	15:03:03	11.0	Bottom	3	1	17.17	8.02	33.06	93	7.34	5.2	5.4
HLR	HY/2011/03	2014-01-03	Mid-Ebb	Sunny	CS(M)F5	15:04:11	11.0	Bottom	3	2	17.18	8.02	33.04	93.6	7.38	6.4	4.2
HLR	HY/2011/03	2014-01-03	Mid-Flood	Sunny	IS5	10:03:02	1.0	Surface	1	1	16.94	8.03	32.59	97.3	7.74	10.4	9.7
HLR	HY/2011/03	2014-01-03	Mid-Flood	Sunny	IS5	10:04:14	1.0	Surface	1	2	16.94	8.03	32.59	97.3	7.74	9.8	10.3
HLR	HY/2011/03	2014-01-03	Mid-Flood	Sunny	IS5	10:02:40	4.2	Middle	2	1	16.94	8.02	32.6	97.1	7.72	10	9.1
HLR	HY/2011/03	2014-01-03	Mid-Flood	Sunny	IS5	10:03:53	4.2	Middle	2	2	16.94	8.03	32.6	97.1	7.72	9.8	10.4
HLR	HY/2011/03	2014-01-03	Mid-Flood	Sunny	IS5	10:02:13	7.4	Bottom	3	1	16.91	8.02	32.61	96.7	7.69	10.8	10.2
HLR	HY/2011/03	2014-01-03	Mid-Flood	Sunny	IS5	10:03:30	7.4	Bottom	3	2	16.93	8.03	32.6	96.9	7.7	10	11.9
HLR	HY/2011/03	2014-01-03	Mid-Flood	Sunny	IS(M)F6	09:52:18	1.0	Surface	1	1	16.96	8.03	32.65	98.1	7.79	15.1	13.1
HLR	HY/2011/03	2014-01-03	Mid-Flood	Sunny	IS(M)F6	09:52:43	1.0	Surface	1	2	17	8.03	32.64	98.5	7.81	14.4	14.1
HLR	HY/2011/03	2014-01-03	Mid-Flood	Sunny	IS(M)F6			Middle	2	1							
HLR	HY/2011/03	2014-01-03	Mid-Flood	Sunny	IS(M)F6			Middle	2	2							
HLR	HY/2011/03	2014-01-03	Mid-Flood	Sunny	IS(M)F6	09:52:05	2.0	Bottom	3	1	16.93	8.02	32.65	97.8	7.77	15.5	15.2
HLR	HY/2011/03	2014-01-03	Mid-Flood	Sunny	IS(M)F6	09:52:30	2.0	Bottom	3	2	16.95	8.03	32.65	98.3	7.81	14.4	14.8
HLR	HY/2011/03	2014-01-03	Mid-Flood	Sunny	IS7	09:43:54	1.0	Surface	1	1	16.95	8.03	32.62	98.3	7.81	14.6	12.2
HLR	HY/2011/03	2014-01-03	Mid-Flood	Sunny	IS7	09:44:19	1.0	Surface	1	2	16.94	8.02	32.62	98.2	7.8	14.3	12

Water Quarterly Monitoring Data

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L	
HCLR	HY/2011/03		Mid-Flood		IS7			Middle	2	1								
HCLR	HY/2011/03		Mid-Flood		IS7			Middle	2	2								
HCLR	HY/2011/03	2014-01-03	Mid-Flood	Sunny	IS7	09:44:07	2.0	Bottom	3	1	16.94	8.02	32.62	98.3	7.81	14.2	11	
HCLR	HY/2011/03	2014-01-03	Mid-Flood	Sunny	IS7	09:43:43	2.0	Bottom	3	2	16.93	8.02	32.62	98.2	7.8	14.7	12.2	
HCLR	HY/2011/03	2014-01-03	Mid-Flood	Sunny	IS8	09:13:41	1.0	Surface	1	1	16.94	8.02	32.64	97.9	7.78	10.6	8.3	
HCLR	HY/2011/03	2014-01-03	Mid-Flood	Sunny	IS8	09:12:39	1.0	Surface	1	2	16.93	8.02	32.64	97.7	7.76	10.5	7	
HCLR	HY/2011/03		Mid-Flood		IS8			Middle	2	1								
HCLR	HY/2011/03		Mid-Flood		IS8			Middle	2	2								
HCLR	HY/2011/03	2014-01-03	Mid-Flood	Sunny	IS8	09:13:14	3.0	Bottom	3	1	16.89	8.02	32.67	97.6	7.76	10.5	8.2	
HCLR	HY/2011/03	2014-01-03	Mid-Flood	Sunny	IS8	09:12:14	3.0	Bottom	3	2	16.87	8.02	32.67	97.4	7.75	10.7	9.5	
HCLR	HY/2011/03	2014-01-03	Mid-Flood	Sunny	IS(M)9	09:36:29	1.0	Surface	1	1	16.89	8.02	32.57	97.7	7.78	15.6	8.2	
HCLR	HY/2011/03	2014-01-03	Mid-Flood	Sunny	IS(M)9	09:37:10	1.0	Surface	1	2	16.9	8.03	32.56	97.7	7.78	15.3	7.7	
HCLR	HY/2011/03		Mid-Flood		IS(M)9			Middle	2	1								
HCLR	HY/2011/03		Mid-Flood		IS(M)9			Middle	2	2								
HCLR	HY/2011/03	2014-01-03	Mid-Flood	Sunny	IS(M)9	09:36:09	2.5	Bottom	3	1	16.89	8.02	32.6	97.6	7.76	15.7	10.2	
HCLR	HY/2011/03	2014-01-03	Mid-Flood	Sunny	IS(M)9	09:36:48	2.5	Bottom	3	2	16.89	8.03	32.59	97.6	7.77	15.3	8.9	
HCLR	HY/2011/03	2014-01-03	Mid-Flood	Sunny	IS10	09:18:55	1.0	Surface	1	1	17	8.2	32.62	95.6	7.58	17.4	21.9	
HCLR	HY/2011/03	2014-01-03	Mid-Flood	Sunny	IS10	09:17:57	1.0	Surface	1	2	17	8.2	32.63	95.6	7.59	17.5	21.4	
HCLR	HY/2011/03	2014-01-03	Mid-Flood	Sunny	IS10	09:18:37	5.3	Middle	2	1	17	8.2	32.67	95.1	7.55	17	21	
HCLR	HY/2011/03	2014-01-03	Mid-Flood	Sunny	IS10	09:17:38	5.3	Middle	2	2	17	8.2	32.65	95.2	7.55	17.3	20.5	
HCLR	HY/2011/03	2014-01-03	Mid-Flood	Sunny	IS10	09:17:19	9.5	Bottom	3	1	17	8.2	32.67	95.1	7.54	18.9	21.8	
HCLR	HY/2011/03	2014-01-03	Mid-Flood	Sunny	IS10	09:18:22	9.5	Bottom	3	2	17	8.2	32.67	95	7.54	18.8	22.1	
HCLR	HY/2011/03		Mid-Flood		SR3			Surface	1	1								
HCLR	HY/2011/03		Mid-Flood		SR3			Surface	1	2								
HCLR	HY/2011/03	2014-01-03	Mid-Flood	Sunny	SR3	10:12:30	0.6	Middle	2	1	17.11	8.02	32.64	98.4	7.79	21	31.7	
HCLR	HY/2011/03	2014-01-03	Mid-Flood	Sunny	SR3	10:12:40	0.6	Middle	2	2	17.07	8.02	32.61	98.2	7.78	20.1	30.9	
HCLR	HY/2011/03		Mid-Flood		SR3			Bottom	3	1								
HCLR	HY/2011/03		Mid-Flood		SR3			Bottom	3	2								
HCLR	HY/2011/03	2014-01-03	Mid-Flood	Sunny	SR4	09:24:41	1.0	Surface	1	1	17.02	8.02	32.57	97.5	7.74	9.2	8.2	
HCLR	HY/2011/03	2014-01-03	Mid-Flood	Sunny	SR4	09:23:03	1.0	Surface	1	2	16.98	8.02	32.59	97	7.71	9.4	8.5	
HCLR	HY/2011/03		Mid-Flood		SR4			Middle	2	1								
HCLR	HY/2011/03		Mid-Flood		SR4			Middle	2	2								
HCLR	HY/2011/03	2014-01-03	Mid-Flood	Sunny	SR4	09:22:52	2.8	Bottom	3	1	16.98	8.02	32.59	96.9	7.69	9.2	10.1	
HCLR	HY/2011/03	2014-01-03	Mid-Flood	Sunny	SR4	09:24:15	2.8	Bottom	3	2	16.99	8.02	32.6	98.5	7.82	9.5	9.1	
HCLR	HY/2011/03	2014-01-03	Mid-Flood	Sunny	SR5	09:25:50	1.0	Surface	1	1	17	8.2	32.61	95.5	7.58	15.2	27	
HCLR	HY/2011/03	2014-01-03	Mid-Flood	Sunny	SR5	09:26:13	1.0	Surface	1	2	17	8.2	32.61	95.5	7.58	16.5	26.1	
HCLR	HY/2011/03		Mid-Flood		SR5			Middle	2	1								
HCLR	HY/2011/03		Mid-Flood		SR5			Middle	2	2								
HCLR	HY/2011/03	2014-01-03	Mid-Flood	Sunny	SR5	09:25:34	4.6	Bottom	3	1	17	8.2	32.64	95.3	7.56	19.2	26.8	
HCLR	HY/2011/03	2014-01-03	Mid-Flood	Sunny	SR5	09:26:01	4.6	Bottom	3	2	17	8.2	32.65	95.3	7.57	18.2	26.8	
HCLR	HY/2011/03	2014-01-03	Mid-Flood	Sunny	SR10A	08:04:13	1.0	Surface	1	1	17.09	7.99	32.75	94.1	7.45	15.3	12.2	
HCLR	HY/2011/03	2014-01-03	Mid-Flood	Sunny	SR10A	08:03:38	1.0	Surface	1	2	17.1	7.99	32.78	94.1	7.45	15.6	10.3	
HCLR	HY/2011/03	2014-01-03	Mid-Flood	Sunny	SR10A	08:03:59	3.3	Middle	2	1	17.09	7.99	32.74	93.9	7.44	16.3	12.1	
HCLR	HY/2011/03	2014-01-03	Mid-Flood	Sunny	SR10A	08:03:19	3.3	Middle	2	2	17.11	7.99	32.79	93.9	7.43	16.3	12.2	
HCLR	HY/2011/03	2014-01-03	Mid-Flood	Sunny	SR10A	08:03:49	5.6	Bottom	3	1	17.1	7.99	32.78	93.9	7.43	16.6	15.1	
HCLR	HY/2011/03	2014-01-03	Mid-Flood	Sunny	SR10A	08:03:07	5.6	Bottom	3	2	17.11	7.99	32.79	93.8	7.42	16.4	14.2	
HCLR	HY/2011/03	2014-01-03	Mid-Flood	Sunny	SR10B	07:56:25	1.0	Surface	1	1	17.17	7.98	33.08	93.6	7.39	10.4	14.7	
HCLR	HY/2011/03	2014-01-03	Mid-Flood	Sunny	SR10B	07:56:44	1.0	Surface	1	2	17.17	7.98	33.08	93.7	7.39	10.5	13.5	
HCLR	HY/2011/03		Mid-Flood		SR10B			Middle	2	1								
HCLR	HY/2011/03		Mid-Flood		SR10B			Middle	2	2								
HCLR	HY/2011/03	2014-01-03	Mid-Flood	Sunny	SR10B	07:56:33	3.8	Bottom	3	1	17.17	7.98	33.09	93.7	7.39	10.8	16	
HCLR	HY/2011/03	2014-01-03	Mid-Flood	Sunny	SR10B	07:56:09	3.8	Bottom	3	2	17.17	7.98	33.08	93.6	7.39	10.7	14.3	
HCLR	HY/2011/03	2014-01-03	Mid-Flood	Sunny	CS2	10:46:25	1.0	Surface	1	1	17.02	8.2	32.61	95.6	7.59	15.6	24.3	
HCLR	HY/2011/03	2014-01-03	Mid-Flood	Sunny	CS2	10:45:37	1.0	Surface	1	2	17.01	8.2	32.62	95.5	7.58	15.3	23.5	
HCLR	HY/2011/03	2014-01-03	Mid-Flood	Sunny	CS2	10:46:05	3.6	Middle	2	1	17	8.2	32.66	95.3	7.56	15.4	24.4	
HCLR	HY/2011/03	2014-01-03	Mid-Flood	Sunny	CS2	10:45:23	3.6	Middle	2	2	17	8.2	32.67	95.2	7.55	15.5	23.6	
HCLR	HY/2011/03	2014-01-03	Mid-Flood	Sunny	CS2	10:45:05	6.1	Bottom	3	1	17	8.2	32.68	95.1	7.55	16.7	23.3	
HCLR	HY/2011/03	2014-01-03	Mid-Flood	Sunny	CS2	10:45:51	6.1	Bottom	3	2	17.06	7.99	32.67	95.1	7.55	17	24.1	
HCLR	HY/2011/03	2014-01-03	Mid-Flood	Sunny	CS(M)5	08:36:35	1.0	Surface	1	1	17.06	7.99	32.43	93.9	7.45	9.4	6.7	
HCLR	HY/2011/03	2014-01-03	Mid-Flood	Sunny	CS(M)5	08:35:40	1.0	Surface	1	2	17.06	7.99	32.42	93.9	7.45	9.5	7.5	
HCLR	HY/2011/03	2014-01-03	Mid-Flood	Sunny	CS(M)5	08:35:19	6.6	Middle	2	1	17.05	7.99	32.48	93.4	7.41	10.6	6.6	
HCLR	HY/2011/03	2014-01-03	Mid-Flood	Sunny	CS(M)5	08:36:19	6.6	Middle	2	2	17.05	7.99	32.48	93.4	7.41	10.4	7	

Water Quarterly Monitoring Data

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L	
HCLR	HY/2011/03	2014-01-03	Mid-Flood	Sunny	CS(MF)5	08:36:02	12.1	Bottom	3	1	17.05	7.99	32.48	93.1	7.39	11.7	6.6	
HCLR	HY/2011/03	2014-01-03	Mid-Flood	Sunny	CS(MF)5	08:35:00	12.1	Bottom	3	2	17.05	7.99	32.48	93.2	7.4	11.1	6.7	
HCLR	HY/2011/03	2014-01-06	Mid-Ebb	Sunny	IS5	16:02:06	1.0	Surface	1	1	17.05	7.96	31.83	94.7	7.55	15.7	17	
HCLR	HY/2011/03	2014-01-06	Mid-Ebb	Sunny	IS5	16:02:36	1.0	Surface	1	2	17.04	7.96	31.82	94.8	7.55	15.7	17.5	
HCLR	HY/2011/03	2014-01-06	Mid-Ebb	Sunny	IS5	16:02:25	4.1	Middle	2	1	17.04	7.96	31.9	94.6	7.53	15.8	17.6	
HCLR	HY/2011/03	2014-01-06	Mid-Ebb	Sunny	IS5	16:01:57	4.1	Middle	2	2	17.04	7.96	31.9	94.5	7.52	16	18.6	
HCLR	HY/2011/03	2014-01-06	Mid-Ebb	Sunny	IS5	16:01:47	7.1	Bottom	3	1	17.04	7.96	31.93	94.4	7.52	16	17.1	
HCLR	HY/2011/03	2014-01-06	Mid-Ebb	Sunny	IS5	16:02:15	7.1	Bottom	3	2	17.04	7.96	31.91	94.5	7.53	15.7	18.4	
HCLR	HY/2011/03	2014-01-06	Mid-Ebb	Sunny	IS(MF)6	16:09:03	1.0	Surface	1	1	17.27	7.97	31.76	97.7	7.76	12.1	12	
HCLR	HY/2011/03	2014-01-06	Mid-Ebb	Sunny	IS(MF)6	16:08:49	1.0	Surface	1	2	17.27	7.97	31.76	97.7	7.76	12.1	11.3	
HCLR	HY/2011/03		Mid-Ebb	Sunny	IS(MF)6			Middle	2	1								
HCLR	HY/2011/03		Mid-Ebb	Sunny	IS(MF)6			Middle	2	2								
HCLR	HY/2011/03	2014-01-06	Mid-Ebb	Sunny	IS(MF)6	16:08:41	2.1	Bottom	3	1	17.27	7.97	31.78	97.9	7.77	12.3	11.9	
HCLR	HY/2011/03	2014-01-06	Mid-Ebb	Sunny	IS(MF)6	16:08:56	2.1	Bottom	3	2	17.27	7.97	31.78	97.8	7.77	12.3	11.5	
HCLR	HY/2011/03	2014-01-06	Mid-Ebb	Sunny	IS7	16:15:55	1.0	Surface	1	1	17.26	7.97	31.75	97.9	7.77	11.9	10.8	
HCLR	HY/2011/03	2014-01-06	Mid-Ebb	Sunny	IS7	16:15:37	1.0	Surface	1	2	17.26	7.97	31.75	98.1	7.79	12	10.9	
HCLR	HY/2011/03		Mid-Ebb	Sunny	IS7			Middle	2	1								
HCLR	HY/2011/03		Mid-Ebb	Sunny	IS7			Middle	2	2								
HCLR	HY/2011/03	2014-01-06	Mid-Ebb	Sunny	IS7	16:15:28	2.3	Bottom	3	1	17.26	7.97	31.77	98.2	7.8	12.1	10.2	
HCLR	HY/2011/03	2014-01-06	Mid-Ebb	Sunny	IS7	16:15:45	2.3	Bottom	3	2	17.26	7.97	31.77	97.9	7.77	12	11.7	
HCLR	HY/2011/03	2014-01-06	Mid-Ebb	Sunny	IS8	16:38:10	1.0	Surface	1	1	17.3	7.96	31.8	93.5	7.41	13.3	12.6	
HCLR	HY/2011/03	2014-01-06	Mid-Ebb	Sunny	IS8	16:38:25	1.0	Surface	1	2	17.31	7.96	31.81	93.5	7.42	13.2	12.5	
HCLR	HY/2011/03		Mid-Ebb	Sunny	IS8			Middle	2	1								
HCLR	HY/2011/03		Mid-Ebb	Sunny	IS8			Middle	2	2								
HCLR	HY/2011/03	2014-01-06	Mid-Ebb	Sunny	IS8	16:38:00	2.7	Bottom	3	1	17.3	7.96	31.83	93.4	7.41	13.2	12.3	
HCLR	HY/2011/03	2014-01-06	Mid-Ebb	Sunny	IS8	16:38:16	2.7	Bottom	3	2	17.31	7.96	31.82	93.4	7.41	13.2	12.8	
HCLR	HY/2011/03	2014-01-06	Mid-Ebb	Sunny	IS(MF)9	16:22:34	1.0	Surface	1	1	17.17	7.98	31.76	97.5	7.76	8	6.7	
HCLR	HY/2011/03	2014-01-06	Mid-Ebb	Sunny	IS(MF)9	16:22:17	1.0	Surface	1	2	17.16	7.97	31.76	97.6	7.77	7.8	6.6	
HCLR	HY/2011/03		Mid-Ebb	Sunny	IS(MF)9			Middle	2	1								
HCLR	HY/2011/03		Mid-Ebb	Sunny	IS(MF)9			Middle	2	2								
HCLR	HY/2011/03	2014-01-06	Mid-Ebb	Sunny	IS(MF)9	16:22:25	2.6	Bottom	3	1	17.16	7.98	31.78	97.6	7.76	8.1	7.6	
HCLR	HY/2011/03	2014-01-06	Mid-Ebb	Sunny	IS(MF)9	16:22:05	2.6	Bottom	3	2	17.16	7.97	31.79	97.7	7.77	7.8	7.9	
HCLR	HY/2011/03	2014-01-06	Mid-Ebb	Sunny	IS10	17:01:45	1.0	Surface	1	1	17.25	8.22	31.64	95.1	7.56	5.2	7.9	
HCLR	HY/2011/03	2014-01-06	Mid-Ebb	Sunny	IS10	17:00:56	1.0	Surface	1	2	17.23	8.21	31.68	95.1	7.55	5.5	7.6	
HCLR	HY/2011/03	2014-01-06	Mid-Ebb	Sunny	IS10	17:00:44	5.2	Middle	2	1	17.13	8.22	31.89	94.5	7.52	6.1	8.1	
HCLR	HY/2011/03	2014-01-06	Mid-Ebb	Sunny	IS10	17:01:29	5.2	Middle	2	2	17.12	8.22	31.9	94.5	7.51	7	7	
HCLR	HY/2011/03	2014-01-06	Mid-Ebb	Sunny	IS10	17:00:34	9.3	Bottom	3	1	17.13	8.21	31.92	94.5	7.52	6	9.4	
HCLR	HY/2011/03	2014-01-06	Mid-Ebb	Sunny	IS10	17:01:20	9.3	Bottom	3	2	17.12	8.22	31.92	94.4	7.51	6.2	10.5	
HCLR	HY/2011/03		Mid-Ebb	Sunny	SR3			Surface	1	1								
HCLR	HY/2011/03		Mid-Ebb	Sunny	SR3			Surface	1	2								
HCLR	HY/2011/03	2014-01-06	Mid-Ebb	Sunny	SR3	15:51:10	0.6	Middle	2	1	17.04	7.94	31.8	96.5	7.69	23.2	12	
HCLR	HY/2011/03	2014-01-06	Mid-Ebb	Sunny	SR3	15:51:18	0.6	Middle	2	2	17.04	7.94	31.8	96.1	7.66	22.7	13.7	
HCLR	HY/2011/03		Mid-Ebb	Sunny	SR3			Bottom	3	1								
HCLR	HY/2011/03		Mid-Ebb	Sunny	SR3			Bottom	3	2								
HCLR	HY/2011/03	2014-01-06	Mid-Ebb	Sunny	SR4	16:31:32	1.0	Surface	1	1	17.41	7.96	31.9	94.7	7.49	8.9	10.7	
HCLR	HY/2011/03	2014-01-06	Mid-Ebb	Sunny	SR4	16:31:53	1.0	Surface	1	2	17.41	7.96	31.89	94.5	7.47	8.9	10.5	
HCLR	HY/2011/03		Mid-Ebb	Sunny	SR4			Middle	2	1								
HCLR	HY/2011/03		Mid-Ebb	Sunny	SR4			Middle	2	2								
HCLR	HY/2011/03	2014-01-06	Mid-Ebb	Sunny	SR4	16:31:41	2.7	Bottom	3	1	17.38	7.96	31.95	94.5	7.48	8.8	11.2	
HCLR	HY/2011/03	2014-01-06	Mid-Ebb	Sunny	SR4	16:31:23	2.7	Bottom	3	2	17.38	7.96	31.96	94.7	7.49	9.1	11.1	
HCLR	HY/2011/03	2014-01-06	Mid-Ebb	Sunny	SR5	16:52:31	1.0	Surface	1	1	17.24	8.2	31.65	95.7	7.6	5.2	6.9	
HCLR	HY/2011/03	2014-01-06	Mid-Ebb	Sunny	SR5	16:52:04	1.0	Surface	1	2	17.25	8.2	31.63	95.8	7.61	5.2	7.5	
HCLR	HY/2011/03		Mid-Ebb	Sunny	SR5			Middle	2	1								
HCLR	HY/2011/03		Mid-Ebb	Sunny	SR5			Middle	2	2								
HCLR	HY/2011/03	2014-01-06	Mid-Ebb	Sunny	SR5	16:52:16	4.5	Bottom	3	1	17.2	8.2	31.8	95.4	7.58	5.5	6.8	
HCLR	HY/2011/03	2014-01-06	Mid-Ebb	Sunny	SR5	16:51:48	4.5	Bottom	3	2	17.14	8.2	31.89	95.7	7.61	5.7	7.9	
HCLR	HY/2011/03	2014-01-06	Mid-Ebb	Sunny	SR10A	17:44:20	1.0	Surface	1	1	17.29	7.96	32.41	92	7.28	3.7	4.1	
HCLR	HY/2011/03	2014-01-06	Mid-Ebb	Sunny	SR10A	17:44:56	1.0	Surface	1	2	17.28	7.96	32.5	91.9	7.27	3.8	3.8	
HCLR	HY/2011/03	2014-01-06	Mid-Ebb	Sunny	SR10A	17:44:06	3.3	Middle	2	1	17.31	7.96	32.5	92	7.27	4	3.9	
HCLR	HY/2011/03	2014-01-06	Mid-Ebb	Sunny	SR10A	17:44:46	3.3	Middle	2	2	17.3	7.96	32.45	91.6	7.24	3.7	3.5	
HCLR	HY/2011/03	2014-01-06	Mid-Ebb	Sunny	SR10A	17:44:34	5.6	Bottom	3	1	17.31	7.96	32.54	91.8	7.24	3.7	4.8	
HCLR	HY/2011/03	2014-01-06	Mid-Ebb	Sunny	SR10A	17:43:54	5.6	Bottom	3	2	17.31	7.96	32.51	92.2	7.28	3.9	4.6	

Water Quarterly Monitoring Data

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HCLR	HY/2011/03	2014-01-06	Mid-Ebb	Sunny	SR10B	17:52:05	1.0	Surface	1	1	17.29	7.95	32.43	91.7	7.25	3.8	4.5
HCLR	HY/2011/03	2014-01-06	Mid-Ebb	Sunny	SR10B	17:51:32	1.0	Surface	1	2	17.28	7.95	32.37	91.9	7.27	3.9	3.1
HCLR	HY/2011/03		Mid-Ebb		SR10B			Middle	2	1							
HCLR	HY/2011/03		Mid-Ebb		SR10B			Middle	2	2							
HCLR	HY/2011/03	2014-01-06	Mid-Ebb	Sunny	SR10B	17:51:49	3.6	Bottom	3	1	17.31	7.96	32.52	91.8	7.25	3.9	4.5
HCLR	HY/2011/03	2014-01-06	Mid-Ebb	Sunny	SR10B	17:51:20	3.6	Bottom	3	2	17.29	7.96	32.47	91.9	7.26	3.9	5.7
HCLR	HY/2011/03	2014-01-06	Mid-Ebb	Sunny	CS2	15:40:04	1.0	Surface	1	1	17.3	8.26	31.75	95.6	7.58	4.4	7.4
HCLR	HY/2011/03	2014-01-06	Mid-Ebb	Sunny	CS2	15:39:31	1.0	Surface	1	2	17.3	8.26	31.77	96.3	7.64	4.5	5.8
HCLR	HY/2011/03	2014-01-06	Mid-Ebb	Sunny	CS2	15:39:21	3.4	Middle	2	1	17.28	8.26	31.88	96.5	7.65	4.9	6.7
HCLR	HY/2011/03	2014-01-06	Mid-Ebb	Sunny	CS2	15:39:52	3.4	Middle	2	2	17.26	8.27	31.88	95.6	7.68	4.8	6.6
HCLR	HY/2011/03	2014-01-06	Mid-Ebb	Sunny	CS2	15:39:41	5.7	Bottom	3	1	17.27	8.26	31.92	95.8	7.6	4.8	6.6
HCLR	HY/2011/03	2014-01-06	Mid-Ebb	Sunny	CS2	15:39:10	5.7	Bottom	3	2	17.23	8.25	32.07	96.9	7.58	5.2	7.3
HCLR	HY/2011/03	2014-01-06	Mid-Ebb	Sunny	CS(M)F5	17:19:01	1.0	Surface	1	1	17.3	7.97	32.02	91.5	7.25	6.5	5.7
HCLR	HY/2011/03	2014-01-06	Mid-Ebb	Sunny	CS(M)F5	17:18:10	1.0	Surface	1	2	17.29	7.97	32.01	91.9	7.28	6.4	6.5
HCLR	HY/2011/03	2014-01-06	Mid-Ebb	Sunny	CS(M)F5	17:18:47	6.3	Middle	2	1	17.28	7.97	32.52	90.4	7.14	6.4	5.1
HCLR	HY/2011/03	2014-01-06	Mid-Ebb	Sunny	CS(M)F5	17:17:55	6.3	Middle	2	2	17.27	7.97	32.54	91.1	7.2	6.7	5.9
HCLR	HY/2011/03	2014-01-06	Mid-Ebb	Sunny	CS(M)F5	17:18:34	11.5	Bottom	3	1	17.26	7.97	32.73	90.6	7.15	6.3	6.6
HCLR	HY/2011/03	2014-01-06	Mid-Ebb	Sunny	CS(M)F5	17:17:46	11.5	Bottom	3	2	17.28	7.97	32.55	91.6	7.23	6.6	5.7
HCLR	HY/2011/03	2014-01-06	Mid-Flood	Sunny	IS5	12:02:45	1.0	Surface	1	1	16.83	7.98	31.84	95	7.61	13	13.2
HCLR	HY/2011/03	2014-01-06	Mid-Flood	Sunny	IS5	12:03:18	1.0	Surface	1	2	16.84	7.98	31.84	94.9	7.59	12.9	13.8
HCLR	HY/2011/03	2014-01-06	Mid-Flood	Sunny	IS5	12:02:35	4.4	Middle	2	1	16.82	7.98	31.85	94.8	7.59	13	14.1
HCLR	HY/2011/03	2014-01-06	Mid-Flood	Sunny	IS5	12:03:07	4.4	Middle	2	2	16.82	7.98	31.84	94.7	7.58	13.1	14.9
HCLR	HY/2011/03	2014-01-06	Mid-Flood	Sunny	IS5	12:02:56	7.7	Bottom	3	1	16.82	7.98	31.83	94.6	7.57	13	14
HCLR	HY/2011/03	2014-01-06	Mid-Flood	Sunny	IS5	12:02:28	7.7	Bottom	3	2	16.79	7.98	31.84	94.6	7.57	13.2	14.2
HCLR	HY/2011/03	2014-01-06	Mid-Flood	Sunny	IS(M)F6	11:54:01	1.0	Surface	1	1	16.96	7.96	31.75	96.1	7.67	15.9	16.6
HCLR	HY/2011/03	2014-01-06	Mid-Flood	Sunny	IS(M)F6	11:54:21	1.0	Surface	1	2	16.97	7.97	31.75	96	7.66	16.1	17.3
HCLR	HY/2011/03		Mid-Flood		IS(M)F6			Middle	2	1							
HCLR	HY/2011/03		Mid-Flood		IS(M)F6			Middle	2	2							
HCLR	HY/2011/03	2014-01-06	Mid-Flood	Sunny	IS(M)F6	11:54:11	2.0	Bottom	3	1	16.95	7.97	31.75	96	7.67	16.2	15.3
HCLR	HY/2011/03	2014-01-06	Mid-Flood	Sunny	IS(M)F6	11:53:50	2.0	Bottom	3	2	16.95	7.96	31.75	96.2	7.68	16.6	15.9
HCLR	HY/2011/03	2014-01-06	Mid-Flood	Sunny	IS7	11:48:05	1.0	Surface	1	1	16.96	7.97	31.77	96.2	7.68	14.3	15
HCLR	HY/2011/03	2014-01-06	Mid-Flood	Sunny	IS7	11:47:50	1.0	Surface	1	2	16.96	7.96	31.77	96.3	7.69	14.7	14.4
HCLR	HY/2011/03		Mid-Flood		IS7			Middle	2	1							
HCLR	HY/2011/03		Mid-Flood		IS7			Middle	2	2							
HCLR	HY/2011/03	2014-01-06	Mid-Flood	Sunny	IS7	11:47:40	2.2	Bottom	3	1	16.95	7.96	31.77	96.3	7.69	15.5	15.3
HCLR	HY/2011/03	2014-01-06	Mid-Flood	Sunny	IS7	11:47:57	2.2	Bottom	3	2	16.96	7.96	31.77	96.2	7.68	15.4	15.3
HCLR	HY/2011/03	2014-01-06	Mid-Flood	Sunny	IS8	11:25:11	1.0	Surface	1	1	16.95	7.95	31.77	92.6	7.4	22.6	23.3
HCLR	HY/2011/03	2014-01-06	Mid-Flood	Sunny	IS8	11:24:51	1.0	Surface	1	2	16.93	7.95	31.77	92.8	7.41	23.6	22.1
HCLR	HY/2011/03		Mid-Flood		IS8			Middle	2	1							
HCLR	HY/2011/03		Mid-Flood		IS8			Middle	2	2							
HCLR	HY/2011/03	2014-01-06	Mid-Flood	Sunny	IS8	11:25:02	3.1	Bottom	3	1	16.94	7.95	31.77	92.6	7.4	23.5	23.7
HCLR	HY/2011/03	2014-01-06	Mid-Flood	Sunny	IS8	11:24:42	3.1	Bottom	3	2	16.93	7.95	31.77	92.9	7.42	23.5	23.8
HCLR	HY/2011/03	2014-01-06	Mid-Flood	Sunny	IS(M)F9	11:42:12	1.0	Surface	1	1	16.95	7.96	31.82	94.2	7.52	23	25
HCLR	HY/2011/03	2014-01-06	Mid-Flood	Sunny	IS(M)F9	11:41:49	1.0	Surface	1	2	16.94	7.96	31.82	94.2	7.52	22.9	24.3
HCLR	HY/2011/03		Mid-Flood		IS(M)F9			Middle	2	1							
HCLR	HY/2011/03		Mid-Flood		IS(M)F9			Middle	2	2							
HCLR	HY/2011/03	2014-01-06	Mid-Flood	Sunny	IS(M)F9	11:41:37	2.7	Bottom	3	1	16.93	7.96	31.82	94.2	7.53	23.4	27.4
HCLR	HY/2011/03	2014-01-06	Mid-Flood	Sunny	IS(M)F9	11:41:58	2.7	Bottom	3	2	16.91	7.96	31.81	94	7.51	23.7	26.2
HCLR	HY/2011/03	2014-01-06	Mid-Flood	Sunny	IS10	11:23:22	1.0	Surface	1	1	17.03	8.21	31.92	94.4	7.52	13.7	18.2
HCLR	HY/2011/03	2014-01-06	Mid-Flood	Sunny	IS10	11:22:39	1.0	Surface	1	2	17.03	8.21	31.92	94.5	7.53	14.2	16.8
HCLR	HY/2011/03	2014-01-06	Mid-Flood	Sunny	IS10	11:23:09	5.3	Middle	2	1	16.94	8.21	31.95	93.8	7.49	14.3	19.5
HCLR	HY/2011/03	2014-01-06	Mid-Flood	Sunny	IS10	11:22:24	5.3	Middle	2	2	16.95	8.21	31.96	94	7.5	14.1	18
HCLR	HY/2011/03	2014-01-06	Mid-Flood	Sunny	IS10	11:22:14	9.6	Bottom	3	1	16.94	8.21	31.98	94.1	7.51	16.1	19.4
HCLR	HY/2011/03	2014-01-06	Mid-Flood	Sunny	IS10	11:22:57	9.6	Bottom	3	2	16.94	8.21	31.98	93.9	7.49	15.8	18.5
HCLR	HY/2011/03		Mid-Flood		SR3			Surface	1	1							
HCLR	HY/2011/03		Mid-Flood		SR3			Surface	1	2							
HCLR	HY/2011/03	2014-01-06	Mid-Flood	Sunny	SR3	12:10:56	0.8	Middle	2	1	16.84	7.98	31.84	95.1	7.61	12.7	13.6
HCLR	HY/2011/03	2014-01-06	Mid-Flood	Sunny	SR3	12:11:04	0.8	Middle	2	2	16.85	7.98	31.84	95.2	7.62	12.5	13.1
HCLR	HY/2011/03		Mid-Flood		SR3			Bottom	3	1							
HCLR	HY/2011/03		Mid-Flood		SR3			Bottom	3	2							
HCLR	HY/2011/03	2014-01-06	Mid-Flood	Sunny	SR4	11:31:18	1.0	Surface	1	1	17.01	7.95	31.8	91.7	7.31	9.3	10.2
HCLR	HY/2011/03	2014-01-06	Mid-Flood	Sunny	SR4	11:31:03	1.0	Surface	1	2	17.01	7.95	31.81	92	7.34	9.2	9.9

Water Quarterly Monitoring Data

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HCLR	HY/2011/03		Mid-Flood		SR4			Middle	2	1							
HCLR	HY/2011/03		Mid-Flood		SR4			Middle	2	2							
HCLR	HY/2011/03	2014-01-06	Mid-Flood	Sunny	SR4	11:30:56	3.0	Bottom	3	1	17.01	7.95	31.8	92.2	7.36	9.6	11.3
HCLR	HY/2011/03	2014-01-06	Mid-Flood	Sunny	SR4	11:31:10	3.0	Bottom	3	2	17.01	7.95	31.8	91.9	7.33	9.5	11.6
HCLR	HY/2011/03	2014-01-06	Mid-Flood	Sunny	SR5	11:33:14	1.0	Surface	1	1	17.02	8.21	31.93	94.3	7.51	13	18.5
HCLR	HY/2011/03	2014-01-06	Mid-Flood	Sunny	SR5	11:33:46	1.0	Surface	1	2	17.02	8.21	31.93	94.3	7.52	13.4	18.3
HCLR	HY/2011/03		Mid-Flood		SR5			Middle	2	1							
HCLR	HY/2011/03		Mid-Flood		SR5			Middle	2	2							
HCLR	HY/2011/03	2014-01-06	Mid-Flood	Sunny	SR5	11:33:33	4.6	Bottom	3	1	16.94	8.21	31.95	93.9	7.49	15	18.8
HCLR	HY/2011/03	2014-01-06	Mid-Flood	Sunny	SR5	11:33:02	4.6	Bottom	3	2	16.94	8.21	31.96	93.8	7.48	15.4	20.3
HCLR	HY/2011/03	2014-01-06	Mid-Flood	Sunny	SR10A	10:28:02	1.0	Surface	1	1	17.22	7.95	32.5	90.9	7.19	8.3	7.9
HCLR	HY/2011/03	2014-01-06	Mid-Flood	Sunny	SR10A	10:27:28	1.0	Surface	1	2	17.22	7.94	32.49	91.1	7.2	9.1	7.9
HCLR	HY/2011/03	2014-01-06	Mid-Flood	Sunny	SR10A	10:27:54	3.3	Middle	2	1	17.22	7.95	32.5	90.9	7.19	8.4	8.2
HCLR	HY/2011/03	2014-01-06	Mid-Flood	Sunny	SR10A	10:27:19	3.3	Middle	2	2	17.22	7.94	32.49	90.8	7.19	8.4	8.6
HCLR	HY/2011/03	2014-01-06	Mid-Flood	Sunny	SR10A	10:27:11	5.6	Bottom	3	1	17.22	7.94	32.49	90.8	7.19	8.5	7.8
HCLR	HY/2011/03	2014-01-06	Mid-Flood	Sunny	SR10A	10:27:39	5.6	Bottom	3	2	17.22	7.94	32.5	90.8	7.19	8.8	7.5
HCLR	HY/2011/03	2014-01-06	Mid-Flood	Sunny	SR10B	10:22:15	1.0	Surface	1	1	17.24	7.94	32.63	91.9	7.26	8.4	12.6
HCLR	HY/2011/03	2014-01-06	Mid-Flood	Sunny	SR10B	10:22:29	1.0	Surface	1	2	17.24	7.94	32.65	91.7	7.24	8.5	11.5
HCLR	HY/2011/03		Mid-Flood		SR10B			Middle	2	1							
HCLR	HY/2011/03		Mid-Flood		SR10B			Middle	2	2							
HCLR	HY/2011/03	2014-01-06	Mid-Flood	Sunny	SR10B	10:22:06	3.9	Bottom	3	1	17.24	7.93	32.62	92.1	7.28	8.6	12.8
HCLR	HY/2011/03	2014-01-06	Mid-Flood	Sunny	SR10B	10:22:22	3.9	Bottom	3	2	17.24	7.94	32.65	91.7	7.25	8.6	12.2
HCLR	HY/2011/03	2014-01-06	Mid-Flood	Sunny	CS2	12:53:35	1.0	Surface	1	1	16.99	8.21	32.06	94.4	7.52	14.5	20.6
HCLR	HY/2011/03	2014-01-06	Mid-Flood	Sunny	CS2	12:52:39	1.0	Surface	1	2	16.98	8.21	32.06	94.3	7.51	14.3	20.7
HCLR	HY/2011/03	2014-01-06	Mid-Flood	Sunny	CS2	12:53:20	3.5	Middle	2	1	16.97	8.21	32.06	94.1	7.5	15.5	19.5
HCLR	HY/2011/03	2014-01-06	Mid-Flood	Sunny	CS2	12:52:23	3.5	Middle	2	2	16.97	8.21	32.06	94	7.49	15.2	20.9
HCLR	HY/2011/03	2014-01-06	Mid-Flood	Sunny	CS2	12:53:03	6.0	Bottom	3	1	16.97	8.21	32.06	93.9	7.48	15.4	22.2
HCLR	HY/2011/03	2014-01-06	Mid-Flood	Sunny	CS2	12:52:05	6.0	Bottom	3	2	16.97	8.21	32.06	94	7.49	15	20.3
HCLR	HY/2011/03	2014-01-06	Mid-Flood	Sunny	CS(M)F5	10:56:44	1.0	Surface	1	1	17.13	7.95	31.87	91.9	7.31	7.5	7.1
HCLR	HY/2011/03	2014-01-06	Mid-Flood	Sunny	CS(M)F5	10:57:30	1.0	Surface	1	2	17.13	7.94	31.87	91.9	7.31	7.4	7
HCLR	HY/2011/03	2014-01-06	Mid-Flood	Sunny	CS(M)F5	10:57:17	6.9	Middle	2	1	17.09	7.94	32.01	91.4	7.27	8.5	7.6
HCLR	HY/2011/03	2014-01-06	Mid-Flood	Sunny	CS(M)F5	10:56:28	6.9	Middle	2	2	17.11	7.95	32.04	91.4	7.24	8.5	7.2
HCLR	HY/2011/03	2014-01-06	Mid-Flood	Sunny	CS(M)F5	10:56:59	12.7	Bottom	3	1	17.11	7.95	32.05	91.6	7.28	8.6	7.2
HCLR	HY/2011/03	2014-01-06	Mid-Flood	Sunny	CS(M)F5	10:56:17	12.7	Bottom	3	2	17.11	7.95	32.07	91.2	7.25	8.6	7.2
HCLR	HY/2011/03	2014-01-06	Mid-Ebb	Fine	IS5	18:24:47	1.0	Surface	1	1	17.57	7.97	32.03	95.1	7.49	15.2	15.6
HCLR	HY/2011/03	2014-01-08	Mid-Ebb	Fine	IS5	18:24:07	1.0	Surface	1	2	17.58	7.96	32.05	95.2	7.5	14.9	16
HCLR	HY/2011/03	2014-01-08	Mid-Ebb	Fine	IS5	18:23:52	4.6	Middle	2	1	17.57	7.96	32.03	95	7.48	15.2	15.2
HCLR	HY/2011/03	2014-01-08	Mid-Ebb	Fine	IS5	18:24:32	4.6	Middle	2	2	17.58	7.97	32.04	94.9	7.48	14.8	15.6
HCLR	HY/2011/03	2014-01-08	Mid-Ebb	Fine	IS5	18:23:45	8.1	Bottom	3	1	17.58	7.96	32.05	95.1	7.49	15.2	14.6
HCLR	HY/2011/03	2014-01-08	Mid-Ebb	Fine	IS5	18:24:22	8.1	Bottom	3	2	17.58	7.97	32.04	95	7.48	15	15.6
HCLR	HY/2011/03	2014-01-08	Mid-Ebb	Fine	IS(M)F6	18:33:43	1.0	Surface	1	1	17.51	7.95	31.88	95.6	7.55	14.8	9.5
HCLR	HY/2011/03	2014-01-08	Mid-Ebb	Fine	IS(M)F6	18:34:17	1.0	Surface	1	2	17.51	7.96	31.89	96.8	7.65	13.7	10.4
HCLR	HY/2011/03		Mid-Ebb		IS(M)F6			Middle	2	1							
HCLR	HY/2011/03		Mid-Ebb		IS(M)F6			Middle	2	2							
HCLR	HY/2011/03	2014-01-08	Mid-Ebb	Fine	IS(M)F6	18:33:30	2.2	Bottom	3	1	17.51	7.95	31.89	95.8	7.56	15.9	9
HCLR	HY/2011/03	2014-01-08	Mid-Ebb	Fine	IS(M)F6	18:34:13	2.2	Bottom	3	2	17.49	7.95	31.91	97.1	7.67	15.5	10.5
HCLR	HY/2011/03	2014-01-08	Mid-Ebb	Fine	IS7	18:41:01	1.0	Surface	1	1	17.5	7.97	31.78	95.9	7.58	11.7	10.8
HCLR	HY/2011/03	2014-01-08	Mid-Ebb	Fine	IS7	18:40:30	1.0	Surface	1	2	17.5	7.97	31.78	96.2	7.6	12.3	11.4
HCLR	HY/2011/03		Mid-Ebb		IS7			Middle	2	1							
HCLR	HY/2011/03		Mid-Ebb		IS7			Middle	2	2							
HCLR	HY/2011/03	2014-01-08	Mid-Ebb	Fine	IS7	18:40:22	2.5	Bottom	3	1	17.5	7.97	31.79	96.2	7.6	13	11.2
HCLR	HY/2011/03	2014-01-08	Mid-Ebb	Fine	IS7	18:40:50	2.5	Bottom	3	2	17.5	7.97	31.79	95.9	7.58	12.4	11.6
HCLR	HY/2011/03	2014-01-08	Mid-Ebb	Fine	IS8	19:07:58	1.0	Surface	1	1	17.47	7.96	31.2	95.5	7.58	6.1	6.3
HCLR	HY/2011/03	2014-01-08	Mid-Ebb	Fine	IS8	19:08:22	1.0	Surface	1	2	17.47	7.96	31.2	95.1	7.54	6.1	5.2
HCLR	HY/2011/03		Mid-Ebb		IS8			Middle	2	1							
HCLR	HY/2011/03		Mid-Ebb		IS8			Middle	2	2							
HCLR	HY/2011/03	2014-01-08	Mid-Ebb	Fine	IS8	19:08:10	2.8	Bottom	3	1	17.48	7.96	31.32	95.3	7.55	6.3	5.4
HCLR	HY/2011/03	2014-01-08	Mid-Ebb	Fine	IS8	19:07:47	2.8	Bottom	3	2	17.48	7.95	31.27	95.9	7.61	6.2	5.1
HCLR	HY/2011/03	2014-01-08	Mid-Ebb	Fine	IS(M)F9	18:46:43	1.0	Surface	1	1	17.5	7.96	31.72	97	7.66	10.6	12.4
HCLR	HY/2011/03	2014-01-08	Mid-Ebb	Fine	IS(M)F9	18:46:55	1.0	Surface	1	2	17.5	7.96	31.73	96.8	7.65	10.4	12.6
HCLR	HY/2011/03		Mid-Ebb		IS(M)F9			Middle	2	1							
HCLR	HY/2011/03		Mid-Ebb		IS(M)F9			Middle	2	2							

Water Quarterly Monitoring Data

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HCLR	HY/2011/03	2014-01-08	Mid-Ebb	Fine	IS(M)F9	18:46:34	2.4	Bottom	3	1	17.49	7.96	31.72	97.2	7.68	10.9	11.6
HCLR	HY/2011/03	2014-01-08	Mid-Ebb	Fine	IS(M)F9	18:46:48	2.4	Bottom	3	2	17.5	7.96	31.73	96.8	7.65	10.6	11.2
HCLR	HY/2011/03	2014-01-08	Mid-Ebb	Fine	IS10	19:33:34	1.0	Surface	1	1	17.6	8.14	29.27	92.8	7.43	3.1	4.2
HCLR	HY/2011/03	2014-01-08	Mid-Ebb	Fine	IS10	19:32:18	1.0	Surface	1	2	17.6	8.14	29.33	92.9	7.43	3.2	4.6
HCLR	HY/2011/03	2014-01-08	Mid-Ebb	Fine	IS10	19:32:04	5.3	Middle	2	1	17.59	8.16	29.68	92.7	7.41	3.6	4
HCLR	HY/2011/03	2014-01-08	Mid-Ebb	Fine	IS10	19:33:11	5.3	Middle	2	2	17.61	8.15	29.51	92.8	7.42	3.8	3.8
HCLR	HY/2011/03	2014-01-08	Mid-Ebb	Fine	IS10	19:31:51	9.5	Bottom	3	1	17.47	8.18	31.04	92.2	7.32	3.7	3.8
HCLR	HY/2011/03	2014-01-08	Mid-Ebb	Fine	IS10	19:32:53	9.5	Bottom	3	2	17.46	8.19	31.06	92.4	7.33	3.8	4.9
HCLR	HY/2011/03		Mid-Ebb		SR3			Surface	1	1							
HCLR	HY/2011/03		Mid-Ebb		SR3			Surface	1	2							
HCLR	HY/2011/03	2014-01-08	Mid-Ebb	Fine	SR3	18:05:38	0.9	Middle	2	1	17.57	7.95	32.07	96.6	7.61	15.5	13.9
HCLR	HY/2011/03	2014-01-08	Mid-Ebb	Fine	SR3	18:05:31	0.9	Middle	2	2	17.58	7.95	32.07	97	7.64	15.8	14.1
HCLR	HY/2011/03		Mid-Ebb		SR3			Bottom	3	1							
HCLR	HY/2011/03	2014-01-08	Mid-Ebb	Fine	SR4	18:58:15	1.0	Bottom	1	1	17.61	7.92	31.22	92.3	7.31	8.3	7
HCLR	HY/2011/03	2014-01-08	Mid-Ebb	Fine	SR4	18:58:26	1.0	Surface	1	2	17.63	7.92	31.37	91.9	7.26	8.8	7.5
HCLR	HY/2011/03		Mid-Ebb		SR4			Middle	2	1							
HCLR	HY/2011/03		Mid-Ebb		SR4			Middle	2	2							
HCLR	HY/2011/03	2014-01-08	Mid-Ebb	Fine	SR4	18:58:22	2.5	Bottom	3	1	17.62	7.92	31.41	92.2	7.28	8.8	8.7
HCLR	HY/2011/03	2014-01-08	Mid-Ebb	Fine	SR4	18:58:06	2.5	Bottom	3	2	17.62	7.92	31.43	92.9	7.34	8.5	8.2
HCLR	HY/2011/03	2014-01-08	Mid-Ebb	Fine	SR5	19:21:58	1.0	Surface	1	1	17.58	8.14	29.56	93	7.43	3.3	4.8
HCLR	HY/2011/03	2014-01-08	Mid-Ebb	Fine	SR5	19:21:37	1.0	Surface	1	2	17.58	8.14	29.56	93.1	7.44	3.4	4.5
HCLR	HY/2011/03		Mid-Ebb		SR5			Middle	2	1							
HCLR	HY/2011/03		Mid-Ebb		SR5			Middle	2	2							
HCLR	HY/2011/03	2014-01-08	Mid-Ebb	Fine	SR5	19:21:48	3.4	Bottom	3	1	17.59	8.14	29.57	93	7.43	3.4	5
HCLR	HY/2011/03	2014-01-08	Mid-Ebb	Fine	SR5	19:21:27	3.4	Bottom	3	2	17.59	8.14	29.58	93.2	7.45	3.5	4.2
HCLR	HY/2011/03	2014-01-08	Mid-Ebb	Fine	SR10A	20:14:25	1.0	Surface	1	1	17.47	7.97	32.41	92.3	7.27	3.2	4
HCLR	HY/2011/03	2014-01-08	Mid-Ebb	Fine	SR10A	20:15:13	1.0	Surface	1	2	17.47	7.97	32.41	92.1	7.25	3.4	3.9
HCLR	HY/2011/03	2014-01-08	Mid-Ebb	Fine	SR10A	20:15:04	3.3	Middle	1	1	17.48	7.97	32.41	92	7.24	3.4	3.6
HCLR	HY/2011/03	2014-01-08	Mid-Ebb	Fine	SR10A	20:14:17	3.3	Middle	2	2	17.47	7.97	32.42	92.2	7.26	3.3	3.9
HCLR	HY/2011/03	2014-01-08	Mid-Ebb	Fine	SR10A	20:14:08	5.5	Bottom	3	1	17.48	7.97	32.42	92.2	7.26	3.1	3.1
HCLR	HY/2011/03	2014-01-08	Mid-Ebb	Fine	SR10A	20:14:49	5.5	Bottom	3	2	17.48	7.98	32.42	91.9	7.24	3	3.3
HCLR	HY/2011/03	2014-01-08	Mid-Ebb	Fine	SR10B	20:30:15	1.0	Surface	1	1	17.48	7.98	32.4	91.9	7.24	3.3	2.8
HCLR	HY/2011/03	2014-01-08	Mid-Ebb	Fine	SR10B	20:29:45	1.0	Surface	1	2	17.47	7.98	32.41	91.9	7.24	3.1	3.2
HCLR	HY/2011/03		Mid-Ebb		SR10B			Middle	2	1							
HCLR	HY/2011/03		Mid-Ebb		SR10B			Middle	2	2							
HCLR	HY/2011/03	2014-01-08	Mid-Ebb	Fine	SR10B	20:29:57	4.5	Bottom	3	1	17.47	7.98	32.43	91.8	7.23	3.3	3
HCLR	HY/2011/03	2014-01-08	Mid-Ebb	Fine	SR10B	20:29:33	4.5	Bottom	3	2	17.47	7.97	32.43	91.7	7.22	3.1	3.6
HCLR	HY/2011/03	2014-01-08	Mid-Ebb	Fine	CS2	17:52:50	1.0	Surface	1	1	17.5	8.15	29.95	93.2	7.45	4.5	5.7
HCLR	HY/2011/03	2014-01-08	Mid-Ebb	Fine	CS2	17:52:01	1.0	Surface	1	2	17.5	8.12	29.97	93.9	7.5	4.4	6.3
HCLR	HY/2011/03	2014-01-08	Mid-Ebb	Fine	CS2	17:52:26	4.0	Middle	2	1	17.51	8.15	30.09	93.3	7.44	5.1	5.1
HCLR	HY/2011/03	2014-01-08	Mid-Ebb	Fine	CS2	17:51:41	4.0	Middle	2	2	17.52	8.11	30.01	94.6	7.56	4.7	5.9
HCLR	HY/2011/03	2014-01-08	Mid-Ebb	Fine	CS2	17:52:16	6.9	Bottom	3	1	17.54	8.14	30.53	93.3	7.43	6.4	6.1
HCLR	HY/2011/03	2014-01-08	Mid-Ebb	Fine	CS2	17:51:19	6.9	Bottom	3	2	17.54	8.11	30.51	97.1	7.72	6	6
HCLR	HY/2011/03	2014-01-08	Mid-Ebb	Fine	CS(M)F5	19:49:16	1.0	Surface	1	1	17.41	7.97	31.53	92.7	7.35	6.8	6.2
HCLR	HY/2011/03	2014-01-08	Mid-Ebb	Fine	CS(M)F5	19:48:36	1.0	Surface	1	2	17.43	7.96	31.6	92.6	7.33	7.2	4.7
HCLR	HY/2011/03	2014-01-08	Mid-Ebb	Fine	CS(M)F5	19:49:05	6.5	Middle	2	1	17.44	7.97	31.88	92.3	7.3	7	6.2
HCLR	HY/2011/03	2014-01-08	Mid-Ebb	Fine	CS(M)F5	19:48:27	6.5	Middle	2	2	17.44	7.97	31.92	92.3	7.3	6.9	6.2
HCLR	HY/2011/03	2014-01-08	Mid-Ebb	Fine	CS(M)F5	19:48:08	12.0	Bottom	3	1	17.43	7.97	31.95	92.6	7.32	6.7	6.3
HCLR	HY/2011/03	2014-01-08	Mid-Ebb	Fine	CS(M)F5	19:48:52	12.0	Bottom	3	2	17.43	7.97	31.94	92.4	7.31	6.9	5.5
HCLR	HY/2011/03	2014-01-08	Mid-Flood	Fine	ISS	13:42:54	1.0	Surface	1	1	17.54	7.98	31.78	96.1	7.59	10	9.5
HCLR	HY/2011/03	2014-01-08	Mid-Flood	Fine	ISS	13:43:33	1.0	Surface	1	2	17.54	7.98	31.79	96.1	7.58	10	9.8
HCLR	HY/2011/03	2014-01-08	Mid-Flood	Fine	ISS	13:43:18	4.4	Middle	2	1	17.53	7.98	31.81	95.7	7.56	10.9	9.6
HCLR	HY/2011/03	2014-01-08	Mid-Flood	Fine	ISS	13:42:42	4.4	Middle	2	2	17.52	7.98	31.81	95.8	7.56	10.3	9.9
HCLR	HY/2011/03	2014-01-08	Mid-Flood	Fine	ISS	13:43:10	7.8	Bottom	3	1	17.52	7.98	31.81	95.7	7.56	11	8.3
HCLR	HY/2011/03	2014-01-08	Mid-Flood	Fine	ISS	13:42:32	7.8	Bottom	3	2	17.52	7.98	31.81	95.7	7.56	10.5	10.4
HCLR	HY/2011/03	2014-01-08	Mid-Flood	Fine	IS(M)F6	13:29:38	1.0	Surface	1	1	17.56	7.98	31.75	96.3	7.6	12.6	10.9
HCLR	HY/2011/03	2014-01-08	Mid-Flood	Fine	IS(M)F6	13:29:22	1.0	Surface	1	2	17.55	7.98	31.75	96.4	7.61	13.2	11.4
HCLR	HY/2011/03		Mid-Flood		IS(M)F6			Middle	2	1							
HCLR	HY/2011/03		Mid-Flood		IS(M)F6			Middle	2	2							
HCLR	HY/2011/03	2014-01-08	Mid-Flood	Fine	IS(M)F6	13:29:29	2.2	Bottom	3	1	17.55	7.98	31.77	96.4	7.61	13.5	11.9
HCLR	HY/2011/03	2014-01-08	Mid-Flood	Fine	IS(M)F6	13:29:16	2.2	Bottom	3	2	17.55	7.98	31.77	96.5	7.62	13.8	11.4

Water Quarterly Monitoring Data

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HCLR	HY/2011/03	2014-01-08	Mid-Flood	Fine	IS7	13:22:58	1.0	Surface	1	1	17.51	7.96	31.69	95.5	7.55	16.2	9.1
HCLR	HY/2011/03	2014-01-08	Mid-Flood	Fine	IS7	13:22:46	1.0	Surface	2	2	17.5	7.96	31.68	95.4	7.54	16.6	10.1
HCLR	HY/2011/03		Mid-Flood		IS7			Middle	2	1							
HCLR	HY/2011/03		Mid-Flood		IS7			Middle	2	2							
HCLR	HY/2011/03	2014-01-08	Mid-Flood	Fine	IS7	13:22:52	2.4	Bottom	3	1	17.49	7.96	31.69	95.3	7.54	17.6	10.1
HCLR	HY/2011/03	2014-01-08	Mid-Flood	Fine	IS7	13:22:34	2.4	Bottom	3	2	17.45	7.96	31.73	95.3	7.54	19.2	9.5
HCLR	HY/2011/03	2014-01-08	Mid-Flood	Fine	IS8	13:00:26	1.0	Surface	1	1	17.45	7.95	31.14	93.7	7.44	7	5.4
HCLR	HY/2011/03	2014-01-08	Mid-Flood	Fine	IS8	13:00:01	1.0	Surface	1	2	17.43	7.94	31.19	93.9	7.45	7.4	4.7
HCLR	HY/2011/03		Mid-Flood		IS8			Middle	2	1							
HCLR	HY/2011/03		Mid-Flood		IS8			Middle	2	2							
HCLR	HY/2011/03	2014-01-08	Mid-Flood	Fine	IS8	13:00:12	2.9	Bottom	3	1	17.42	7.95	31.35	93.7	7.43	8.1	4.6
HCLR	HY/2011/03	2014-01-08	Mid-Flood	Fine	IS8	12:59:54	2.9	Bottom	3	2	17.42	7.94	31.35	94	7.45	7.8	4.4
HCLR	HY/2011/03	2014-01-08	Mid-Flood	Fine	IS8	13:16:16	1.0	Surface	1	1	17.44	7.96	31.32	95.4	7.57	14.4	13.8
HCLR	HY/2011/03	2014-01-08	Mid-Flood	Fine	IS(M)F9	13:16:31	1.0	Surface	1	2	17.42	7.96	31.41	95.2	7.55	14.5	13.2
HCLR	HY/2011/03		Mid-Flood		IS(M)F9			Middle	2	1							
HCLR	HY/2011/03		Mid-Flood		IS(M)F9			Middle	2	2							
HCLR	HY/2011/03	2014-01-08	Mid-Flood	Fine	IS(M)F9	13:16:24	2.4	Bottom	3	1	17.42	7.96	31.57	95.1	7.54	14	14.2
HCLR	HY/2011/03	2014-01-08	Mid-Flood	Fine	IS(M)F9	13:16:06	2.4	Bottom	3	2	17.42	7.96	31.55	95.3	7.55	14	14
HCLR	HY/2011/03	2014-01-08	Mid-Flood	Fine	IS10	12:51:22	1.0	Surface	1	1	17.42	8.15	31.03	93.8	7.46	13.4	14.5
HCLR	HY/2011/03	2014-01-08	Mid-Flood	Fine	IS10	12:52:00	1.0	Surface	1	2	17.44	8.15	30.95	93.7	7.45	13.2	14
HCLR	HY/2011/03	2014-01-08	Mid-Flood	Fine	IS10	12:51:09	5.4	Middle	2	1	17.39	8.16	31.22	93.7	7.44	13.4	13.9
HCLR	HY/2011/03	2014-01-08	Mid-Flood	Fine	IS10	12:51:47	5.4	Middle	2	2	17.4	8.15	31.18	93.5	7.43	13.1	14.3
HCLR	HY/2011/03	2014-01-08	Mid-Flood	Fine	IS10	12:50:52	9.7	Bottom	3	1	17.36	8.16	31.45	93.4	7.41	13.7	14.5
HCLR	HY/2011/03	2014-01-08	Mid-Flood	Fine	IS10	12:51:36	9.7	Bottom	3	2	17.39	8.15	31.3	93.3	7.41	13.1	14.5
HCLR	HY/2011/03		Mid-Flood		SR3			Surface	1	1							
HCLR	HY/2011/03		Mid-Flood		SR3			Surface	1	2							
HCLR	HY/2011/03	2014-01-08	Mid-Flood	Fine	SR3	13:58:24	0.8	Middle	2	1	17.54	7.98	31.79	96.3	7.6	10.3	9
HCLR	HY/2011/03	2014-01-08	Mid-Flood	Fine	SR3	13:58:31	0.8	Middle	2	2	17.54	7.98	31.79	96.2	7.6	10.2	9.4
HCLR	HY/2011/03		Mid-Flood		SR3			Bottom	3	1							
HCLR	HY/2011/03		Mid-Flood		SR3			Bottom	3	2							
HCLR	HY/2011/03	2014-01-08	Mid-Flood	Fine	SR4	13:07:35	1.0	Surface	1	1	17.46	7.95	31.11	93.6	7.43	6.8	3.4
HCLR	HY/2011/03	2014-01-08	Mid-Flood	Fine	SR4	13:07:53	1.0	Surface	1	2	17.45	7.95	31.19	93.5	7.42	7	3.5
HCLR	HY/2011/03		Mid-Flood		SR4			Middle	2	1							
HCLR	HY/2011/03		Mid-Flood		SR4			Middle	2	2							
HCLR	HY/2011/03	2014-01-08	Mid-Flood	Fine	SR4	13:07:46	2.6	Bottom	3	1	17.43	7.95	31.32	93.5	7.42	8.5	5.9
HCLR	HY/2011/03	2014-01-08	Mid-Flood	Fine	SR4	13:07:28	2.6	Bottom	3	2	17.43	7.95	31.3	93.5	7.42	8	5.3
HCLR	HY/2011/03	2014-01-08	Mid-Flood	Fine	SR5	13:02:21	1.0	Surface	1	1	17.73	8.13	30.58	93.9	7.44	12.7	13.9
HCLR	HY/2011/03	2014-01-08	Mid-Flood	Fine	SR5	13:02:46	1.0	Surface	1	2	17.73	8.14	30.59	93.8	7.43	13.1	14
HCLR	HY/2011/03		Mid-Flood		SR5			Middle	2	1							
HCLR	HY/2011/03		Mid-Flood		SR5			Middle	2	2							
HCLR	HY/2011/03	2014-01-08	Mid-Flood	Fine	SR5	13:02:35	3.6	Bottom	3	1	17.47	8.14	30.98	93.3	7.41	12.9	15.4
HCLR	HY/2011/03	2014-01-08	Mid-Flood	Fine	SR5	13:02:08	3.6	Bottom	3	2	17.54	8.14	30.87	93.5	7.42	13.1	13.6
HCLR	HY/2011/03	2014-01-08	Mid-Flood	Fine	SR10A	11:58:35	1.0	Surface	1	1	17.4	7.94	32.44	91	7.18	3.9	5.1
HCLR	HY/2011/03	2014-01-08	Mid-Flood	Fine	SR10A	11:57:51	1.0	Surface	1	2	17.4	7.93	32.44	91.2	7.19	4.2	3.6
HCLR	HY/2011/03	2014-01-08	Mid-Flood	Fine	SR10A	11:57:41	3.4	Middle	2	1	17.39	7.93	32.45	91	7.17	4.2	4.4
HCLR	HY/2011/03	2014-01-08	Mid-Flood	Fine	SR10A	11:58:19	3.4	Middle	2	2	17.39	7.93	32.46	90.8	7.16	3.9	5.3
HCLR	HY/2011/03	2014-01-08	Mid-Flood	Fine	SR10A	11:58:10	5.8	Bottom	3	1	17.38	7.93	32.45	90.7	7.15	4.2	5.1
HCLR	HY/2011/03	2014-01-08	Mid-Flood	Fine	SR10A	11:57:32	5.8	Bottom	3	2	17.39	7.93	32.45	91	7.17	4.6	3.9
HCLR	HY/2011/03	2014-01-08	Mid-Flood	Fine	SR10B	11:42:13	1.0	Surface	1	1	17.41	7.92	32.51	91	7.17	4.1	4.2
HCLR	HY/2011/03	2014-01-08	Mid-Flood	Fine	SR10B	11:41:44	1.0	Surface	1	2	17.41	7.92	32.48	91.1	7.18	4.2	5.3
HCLR	HY/2011/03		Mid-Flood		SR10B			Middle	2	1							
HCLR	HY/2011/03		Mid-Flood		SR10B			Middle	2	2							
HCLR	HY/2011/03	2014-01-08	Mid-Flood	Fine	SR10B	11:41:26	4.5	Bottom	3	1	17.4	7.92	32.47	90.9	7.17	4.4	4.8
HCLR	HY/2011/03	2014-01-08	Mid-Flood	Fine	SR10B	11:42:02	4.5	Bottom	3	2	17.4	7.92	32.51	90.7	7.15	4	4.3
HCLR	HY/2011/03	2014-01-08	Mid-Flood	Fine	CS2	14:22:38	1.0	Surface	1	1	17.56	8.15	30.64	93.8	7.45	5.1	4.5
HCLR	HY/2011/03	2014-01-08	Mid-Flood	Fine	CS2	14:21:44	1.0	Surface	1	2	17.57	8.15	30.61	93.8	7.45	4.9	5.4
HCLR	HY/2011/03	2014-01-08	Mid-Flood	Fine	CS2	14:22:26	3.9	Middle	2	1	17.42	8.16	31.29	93.4	7.41	7.5	4.5
HCLR	HY/2011/03	2014-01-08	Mid-Flood	Fine	CS2	14:21:31	3.9	Middle	2	2	17.43	8.15	30.95	93.5	7.42	7.1	5.1
HCLR	HY/2011/03	2014-01-08	Mid-Flood	Fine	CS2	14:21:18	6.7	Bottom	3	1	17.49	8.15	31.29	93.3	7.4	8.9	6.8
HCLR	HY/2011/03	2014-01-08	Mid-Flood	Fine	CS2	14:22:12	6.7	Bottom	3	2	17.39	8.16	31.52	93.2	7.39	8.7	5.2
HCLR	HY/2011/03	2014-01-08	Mid-Flood	Fine	CS(M)F5	12:30:36	1.0	Surface	1	1	17.5	7.93	31.32	92.7	7.34	8.4	4.3
HCLR	HY/2011/03	2014-01-08	Mid-Flood	Fine	CS(M)F5	12:29:57	1.0	Surface	1	2	17.46	7.93	31.4	92.3	7.32	8	3.5

Water Quarterly Monitoring Data

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HCLR	HY/2011/03	2014-01-08	Mid-Flood	Fine	CS(MF)5	12:29:46	6.7	Middle	2	1	17.31	7.94	32.15	91.4	7.23	15.5	3.8
HCLR	HY/2011/03	2014-01-08	Mid-Flood	Fine	CS(MF)5	12:30:21	6.7	Middle	2	2	17.31	7.94	32.19	91.4	7.23	16.3	4.4
HCLR	HY/2011/03	2014-01-08	Mid-Flood	Fine	CS(MF)5	12:29:28	12.4	Bottom	3	1	17.33	7.93	32.15	91.9	7.27	13.9	4
HCLR	HY/2011/03	2014-01-08	Mid-Flood	Fine	CS(MF)5	12:30:12	12.4	Bottom	3	2	17.33	7.94	32.13	91.9	7.27	13.1	3.4
HCLR	HY/2011/03	2014-01-10	Mid-Ebb	Fine	IS5	09:06:09	1.0	Surface	1	1	16.88	7.96	31.35	93.7	7.51	7.2	6.5
HCLR	HY/2011/03	2014-01-10	Mid-Ebb	Fine	IS5	09:06:41	1.0	Surface	1	2	16.88	7.96	31.34	93.6	7.5	7.1	6
HCLR	HY/2011/03	2014-01-10	Mid-Ebb	Fine	IS5	09:06:31	4.2	Middle	2	1	16.91	7.96	31.39	93.4	7.48	7.5	6.7
HCLR	HY/2011/03	2014-01-10	Mid-Ebb	Fine	IS5	09:06:00	4.2	Middle	2	2	16.92	7.96	31.42	93.5	7.49	7.8	6.1
HCLR	HY/2011/03	2014-01-10	Mid-Ebb	Fine	IS5	09:06:22	7.4	Bottom	3	1	16.93	7.96	31.52	93.6	7.49	7.8	6.1
HCLR	HY/2011/03	2014-01-10	Mid-Ebb	Fine	IS5	09:05:53	7.4	Bottom	3	2	16.91	7.96	31.48	93.5	7.49	7.7	6.2
HCLR	HY/2011/03	2014-01-10	Mid-Ebb	Fine	IS(MF)6	08:57:26	1.0	Surface	1	1	16.7	7.94	31.14	95	7.65	11.1	9.8
HCLR	HY/2011/03	2014-01-10	Mid-Ebb	Fine	IS(MF)6	08:57:09	1.0	Surface	1	2	16.7	7.93	31.15	95.2	7.67	11.5	9.4
HCLR	HY/2011/03	2014-01-10	Mid-Ebb	Fine	IS(MF)6			Middle	2	1							
HCLR	HY/2011/03	2014-01-10	Mid-Ebb	Fine	IS(MF)6			Middle	2	2							
HCLR	HY/2011/03	2014-01-10	Mid-Ebb	Fine	IS(MF)6	08:56:59	2.1	Bottom	3	1	16.69	7.93	31.15	95.2	7.67	11.5	9.9
HCLR	HY/2011/03	2014-01-10	Mid-Ebb	Fine	IS(MF)6	08:57:17	2.1	Bottom	3	2	16.7	7.93	31.15	95	7.65	11	10.1
HCLR	HY/2011/03	2014-01-10	Mid-Ebb	Fine	IS7	08:50:39	1.0	Surface	1	1	16.74	7.92	31.15	94.7	7.63	12.2	10.5
HCLR	HY/2011/03	2014-01-10	Mid-Ebb	Fine	IS7	08:51:01	1.0	Surface	1	2	16.74	7.92	31.15	94.5	7.6	12	10.5
HCLR	HY/2011/03	2014-01-10	Mid-Ebb	Fine	IS7			Middle	2	1							
HCLR	HY/2011/03	2014-01-10	Mid-Ebb	Fine	IS7			Middle	2	2							
HCLR	HY/2011/03	2014-01-10	Mid-Ebb	Fine	IS7	08:50:26	2.2	Bottom	3	1	16.74	7.92	31.15	95	7.65	11.9	11.7
HCLR	HY/2011/03	2014-01-10	Mid-Ebb	Fine	IS7	08:50:49	2.2	Bottom	3	2	16.74	7.92	31.14	94.5	7.61	11.3	10.9
HCLR	HY/2011/03	2014-01-10	Mid-Ebb	Fine	IS8	08:27:13	1.0	Surface	1	1	16.9	7.92	31.15	93.6	7.51	8.5	6.7
HCLR	HY/2011/03	2014-01-10	Mid-Ebb	Fine	IS8	08:26:53	1.0	Surface	1	2	16.89	7.92	31.15	93.9	7.54	8.5	6.7
HCLR	HY/2011/03	2014-01-10	Mid-Ebb	Fine	IS8			Middle	2	1							
HCLR	HY/2011/03	2014-01-10	Mid-Ebb	Fine	IS8			Middle	2	2							
HCLR	HY/2011/03	2014-01-10	Mid-Ebb	Fine	IS8	08:26:42	2.7	Bottom	3	1	16.92	7.92	31.18	93.9	7.53	8.5	7.1
HCLR	HY/2011/03	2014-01-10	Mid-Ebb	Fine	IS8	08:27:02	2.7	Bottom	3	2	16.92	7.92	31.28	93.9	7.53	8.7	7.7
HCLR	HY/2011/03	2014-01-10	Mid-Ebb	Fine	IS(MF)9	08:44:44	1.0	Surface	1	1	16.75	7.92	31.21	94.5	7.6	13.6	11.6
HCLR	HY/2011/03	2014-01-10	Mid-Ebb	Fine	IS(MF)9	08:44:21	1.0	Surface	1	2	16.74	7.92	31.2	94.6	7.61	13.5	12.1
HCLR	HY/2011/03	2014-01-10	Mid-Ebb	Fine	IS(MF)9			Middle	2	1							
HCLR	HY/2011/03	2014-01-10	Mid-Ebb	Fine	IS(MF)9			Middle	2	2							
HCLR	HY/2011/03	2014-01-10	Mid-Ebb	Fine	IS(MF)9	08:44:31	2.7	Bottom	3	1	16.74	7.92	31.21	94.5	7.6	13.3	11.9
HCLR	HY/2011/03	2014-01-10	Mid-Ebb	Fine	IS(MF)9	08:44:11	2.7	Bottom	3	2	16.74	7.92	31.21	94.6	7.61	13.7	12.6
HCLR	HY/2011/03	2014-01-10	Mid-Ebb	Fine	IS10	08:21:05	1.0	Surface	1	1	16.98	8.17	31.85	90.8	7.24	7.8	6.4
HCLR	HY/2011/03	2014-01-10	Mid-Ebb	Fine	IS10	08:21:42	1.0	Surface	1	2	16.99	8.17	31.86	90.7	7.24	8	6.3
HCLR	HY/2011/03	2014-01-10	Mid-Ebb	Fine	IS10	08:21:29	4.9	Middle	2	1	17.09	8.18	31.99	90.4	7.19	7.3	6.1
HCLR	HY/2011/03	2014-01-10	Mid-Ebb	Fine	IS10	08:20:54	4.9	Middle	2	2	17.06	8.18	31.97	90.6	7.21	7.3	6.5
HCLR	HY/2011/03	2014-01-10	Mid-Ebb	Fine	IS10	08:21:20	8.7	Bottom	3	1	17.13	8.18	32.06	90.7	7.2	7.2	5.9
HCLR	HY/2011/03	2014-01-10	Mid-Ebb	Fine	IS10	08:20:42	8.7	Bottom	3	2	17.1	8.18	32.02	90.7	7.21	7.2	5.8
HCLR	HY/2011/03	2014-01-10	Mid-Ebb	Fine	SR3			Surface	1	1							
HCLR	HY/2011/03	2014-01-10	Mid-Ebb	Fine	SR3			Surface	1	2							
HCLR	HY/2011/03	2014-01-10	Mid-Ebb	Fine	SR3	09:12:07	0.8	Middle	2	1	16.88	7.95	31.34	93.9	7.53	6.4	6.7
HCLR	HY/2011/03	2014-01-10	Mid-Ebb	Fine	SR3	09:12:18	0.8	Middle	2	2	16.88	7.95	31.33	93.8	7.52	6.4	6.4
HCLR	HY/2011/03	2014-01-10	Mid-Ebb	Fine	SR3			Bottom	3	1							
HCLR	HY/2011/03	2014-01-10	Mid-Ebb	Fine	SR4	08:33:23	1.0	Surface	1	1	16.47	7.89	30.46	90.8	7.38	3.8	3.3
HCLR	HY/2011/03	2014-01-10	Mid-Ebb	Fine	SR4	08:32:58	1.0	Surface	1	2	16.5	7.89	30.49	91	7.39	3.9	3.3
HCLR	HY/2011/03	2014-01-10	Mid-Ebb	Fine	SR4			Middle	2	1							
HCLR	HY/2011/03	2014-01-10	Mid-Ebb	Fine	SR4			Middle	2	2							
HCLR	HY/2011/03	2014-01-10	Mid-Ebb	Fine	SR4	08:33:07	2.6	Bottom	3	1	16.57	7.89	30.61	91	7.37	4.2	3.5
HCLR	HY/2011/03	2014-01-10	Mid-Ebb	Fine	SR4	08:32:48	2.6	Bottom	3	2	16.57	7.89	30.6	91.4	7.41	4	3.6
HCLR	HY/2011/03	2014-01-10	Mid-Ebb	Fine	SR5	08:30:49	1.0	Surface	1	1	16.99	8.17	31.86	90.9	7.25	8.2	7.6
HCLR	HY/2011/03	2014-01-10	Mid-Ebb	Fine	SR5	08:30:27	1.0	Surface	1	2	17.01	8.17	31.88	90.7	7.23	7.8	7.9
HCLR	HY/2011/03	2014-01-10	Mid-Ebb	Fine	SR5			Middle	2	1							
HCLR	HY/2011/03	2014-01-10	Mid-Ebb	Fine	SR5			Middle	2	2							
HCLR	HY/2011/03	2014-01-10	Mid-Ebb	Fine	SR5	08:30:36	4.5	Bottom	3	1	17.06	8.17	32	90.8	7.23	7.7	8
HCLR	HY/2011/03	2014-01-10	Mid-Ebb	Fine	SR5	08:30:17	4.5	Bottom	3	2	17.12	8.17	32.03	90.8	7.21	7	8
HCLR	HY/2011/03	2014-01-10	Mid-Ebb	Fine	SR10A	07:20:10	1.0	Surface	1	1	17.29	7.96	33.17	90.6	7.13	1.5	3.6
HCLR	HY/2011/03	2014-01-10	Mid-Ebb	Fine	SR10A	07:19:26	1.0	Surface	1	2	17.27	7.95	33.14	90.7	7.14	1.5	3
HCLR	HY/2011/03	2014-01-10	Mid-Ebb	Fine	SR10A	07:19:58	3.4	Middle	2	1	17.32	7.96	33.2	90.5	7.12	1.5	2.9
HCLR	HY/2011/03	2014-01-10	Mid-Ebb	Fine	SR10A	07:19:16	3.4	Middle	2	2	17.32	7.96	33.19	90.8	7.14	1.5	2.6

Water Quarterly Monitoring Data

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HCLR	HY/2011/03	2014-01-10	Mid-Ebb	Fine	SR10A	07:19:05	5.7	Bottom	3	1	17.31	7.95	33.19	90.6	7.13	1.5	2.7
HCLR	HY/2011/03	2014-01-10	Mid-Ebb	Fine	SR10A	07:19:46	5.7	Bottom	3	2	17.32	7.96	33.2	90.5	7.11	1.4	3.3
HCLR	HY/2011/03	2014-01-10	Mid-Ebb	Fine	SR10B	07:13:14	1.0	Surface	1	1	17.3	7.93	33.03	91	7.16	1.5	3.1
HCLR	HY/2011/03	2014-01-10	Mid-Ebb	Fine	SR10B	07:13:36	1.0	Surface	1	2	17.3	7.94	33.05	90.7	7.14	1.6	3.4
HCLR	HY/2011/03		Mid-Ebb		SR10B			Middle	2	1							
HCLR	HY/2011/03		Mid-Ebb		SR10B			Middle	2	2							
HCLR	HY/2011/03	2014-01-10	Mid-Ebb	Fine	SR10B	07:13:25	4.1	Bottom	3	1	17.3	7.94	33.05	90.8	7.15	1.5	3.1
HCLR	HY/2011/03	2014-01-10	Mid-Ebb	Fine	SR10B	07:13:05	4.1	Bottom	3	2	17.3	7.93	33.03	91.2	7.18	1.5	3.2
HCLR	HY/2011/03	2014-01-10	Mid-Ebb	Fine	CS2	09:44:23	1.0	Surface	1	1	17.05	8.19	31.92	91.4	7.28	6.7	4.5
HCLR	HY/2011/03	2014-01-10	Mid-Ebb	Fine	CS2	09:44:57	3.4	Surface	1	2	17.04	8.19	31.91	91.4	7.28	7	5
HCLR	HY/2011/03	2014-01-10	Mid-Ebb	Fine	CS2	09:44:57	3.4	Middle	2	1	17.07	8.19	31.95	90.9	7.24	6.9	4.4
HCLR	HY/2011/03	2014-01-10	Mid-Ebb	Fine	CS2	09:44:07	3.4	Middle	2	2	17.06	8.19	31.93	91	7.24	6.9	4.6
HCLR	HY/2011/03	2014-01-10	Mid-Ebb	Fine	CS2	09:44:45	5.8	Bottom	3	1	17.18	8.19	32.22	91.1	7.23	7.2	5.1
HCLR	HY/2011/03	2014-01-10	Mid-Ebb	Fine	CS2	09:43:51	5.8	Bottom	3	2	17.22	8.19	32.21	91	7.22	7.6	4.3
HCLR	HY/2011/03	2014-01-10	Mid-Ebb	Fine	CS(MWF)	07:54:59	1.0	Surface	1	1	17.22	7.95	32.58	90.2	7.13	2.4	2.6
HCLR	HY/2011/03	2014-01-10	Mid-Ebb	Fine	CS(MWF)	07:54:22	1.0	Surface	1	2	17.13	7.94	32.41	90.3	7.16	2.5	2.3
HCLR	HY/2011/03	2014-01-10	Mid-Ebb	Fine	CS(MWF)	07:54:51	6.5	Middle	2	1	17.32	7.95	33	90.2	7.1	2.5	2.5
HCLR	HY/2011/03	2014-01-10	Mid-Ebb	Fine	CS(MWF)	07:54:11	6.5	Middle	2	2	17.33	7.94	33.03	90.1	7.09	2.5	2.6
HCLR	HY/2011/03	2014-01-10	Mid-Ebb	Fine	CS(MWF)	07:54:41	12.0	Bottom	3	1	17.33	7.95	33.04	90.2	7.1	3.2	2.4
HCLR	HY/2011/03	2014-01-10	Mid-Ebb	Fine	CS(MWF)	07:54:01	12.0	Bottom	3	2	17.33	7.94	33.03	90.2	7.1	3.2	2.4
HCLR	HY/2011/03	2014-01-10	Mid-Flood	Fine	IS5	13:25:45	1.0	Surface	1	1	16.81	7.96	31.25	94.8	7.61	21.9	25.4
HCLR	HY/2011/03	2014-01-10	Mid-Flood	Fine	IS5	13:25:12	1.0	Surface	1	2	16.82	7.96	31.26	94.7	7.61	22.4	25
HCLR	HY/2011/03	2014-01-10	Mid-Flood	Fine	IS5	13:25:03	4.3	Middle	2	1	16.82	7.96	31.27	94.6	7.59	22.7	24.7
HCLR	HY/2011/03	2014-01-10	Mid-Flood	Fine	IS5	13:25:32	4.3	Middle	2	2	16.82	7.96	31.27	94.4	7.59	22.5	25
HCLR	HY/2011/03	2014-01-10	Mid-Flood	Fine	IS5	13:25:22	7.5	Bottom	3	1	16.82	7.96	31.27	94.5	7.59	22.2	26.9
HCLR	HY/2011/03	2014-01-10	Mid-Flood	Fine	IS5	13:24:55	7.5	Bottom	3	2	16.82	7.96	31.28	94.6	7.6	22.6	26.9
HCLR	HY/2011/03	2014-01-10	Mid-Flood	Fine	IS(MF)	13:32:31	1.0	Surface	1	1	16.83	7.95	31.28	96.1	7.71	15.6	17.1
HCLR	HY/2011/03	2014-01-10	Mid-Flood	Fine	IS(MF)	13:32:12	1.0	Surface	1	2	16.83	7.95	31.29	96.2	7.73	15.4	16.9
HCLR	HY/2011/03		Mid-Flood		IS(MF)			Middle	2	1							
HCLR	HY/2011/03		Mid-Flood		IS(MF)			Middle	2	2							
HCLR	HY/2011/03	2014-01-10	Mid-Flood	Fine	IS(MF)	13:32:01	2.1	Bottom	3	1	16.83	7.95	31.29	96.4	7.74	15.9	17.8
HCLR	HY/2011/03	2014-01-10	Mid-Flood	Fine	IS(MF)	13:32:20	2.1	Bottom	3	2	16.83	7.95	31.29	96.1	7.72	15.5	17
HCLR	HY/2011/03	2014-01-10	Mid-Flood	Fine	IS7	13:38:56	1.0	Surface	1	1	16.86	7.94	31.27	96	7.7	13.1	15
HCLR	HY/2011/03	2014-01-10	Mid-Flood	Fine	IS7	13:39:11	1.0	Surface	1	2	16.86	7.94	31.27	95.8	7.69	12.9	15
HCLR	HY/2011/03		Mid-Flood		IS7			Middle	2	1							
HCLR	HY/2011/03		Mid-Flood		IS7			Middle	2	2							
HCLR	HY/2011/03	2014-01-10	Mid-Flood	Fine	IS7	13:38:48	2.2	Bottom	3	1	16.86	7.94	31.28	96.2	7.72	13.2	14.3
HCLR	HY/2011/03	2014-01-10	Mid-Flood	Fine	IS7	13:39:03	2.2	Bottom	3	2	16.86	7.94	31.28	95.8	7.69	13.6	15.4
HCLR	HY/2011/03	2014-01-10	Mid-Flood	Fine	IS8	14:00:10	1.0	Surface	1	1	17.07	7.96	31.64	93.3	7.44	7.5	5.7
HCLR	HY/2011/03	2014-01-10	Mid-Flood	Fine	IS8	14:00:30	1.0	Surface	1	2	17.07	7.96	31.64	93.3	7.44	7.4	6
HCLR	HY/2011/03		Mid-Flood		IS8			Middle	2	1							
HCLR	HY/2011/03		Mid-Flood		IS8			Middle	2	2							
HCLR	HY/2011/03	2014-01-10	Mid-Flood	Fine	IS8	13:59:57	2.7	Bottom	3	1	17.07	7.95	31.68	93.3	7.43	7.4	5.3
HCLR	HY/2011/03	2014-01-10	Mid-Flood	Fine	IS8	14:00:20	2.7	Bottom	3	2	17.07	7.96	31.68	93.3	7.44	7.6	4.9
HCLR	HY/2011/03	2014-01-10	Mid-Flood	Fine	IS(MF)	13:45:30	1.0	Surface	1	1	16.98	7.94	31.34	94.2	7.54	16.4	18
HCLR	HY/2011/03	2014-01-10	Mid-Flood	Fine	IS(MF)	13:45:10	1.0	Surface	1	2	16.98	7.94	31.34	94.4	7.55	16.9	17.2
HCLR	HY/2011/03		Mid-Flood		IS(MF)			Middle	2	1							
HCLR	HY/2011/03		Mid-Flood		IS(MF)			Middle	2	2							
HCLR	HY/2011/03	2014-01-10	Mid-Flood	Fine	IS(MF)	13:45:00	2.7	Bottom	3	1	16.98	7.94	31.37	94.7	7.57	17.6	17
HCLR	HY/2011/03	2014-01-10	Mid-Flood	Fine	IS(MF)	13:45:18	2.7	Bottom	3	2	16.98	7.94	31.37	94.3	7.55	17.2	17.6
HCLR	HY/2011/03	2014-01-10	Mid-Flood	Fine	IS10	14:00:15	1.0	Surface	1	1	17.15	8.22	31.75	90.5	7.2	5.7	4.4
HCLR	HY/2011/03	2014-01-10	Mid-Flood	Fine	IS10	14:01:00	1.0	Surface	1	2	17.15	8.22	31.74	90.8	7.22	5.5	4
HCLR	HY/2011/03	2014-01-10	Mid-Flood	Fine	IS10	14:00:39	4.8	Middle	2	1	17.24	8.22	32.15	89.8	7.11	5.6	3.7
HCLR	HY/2011/03	2014-01-10	Mid-Flood	Fine	IS10	14:00:01	4.8	Middle	2	2	17.21	8.22	32.03	89.5	7.1	5.6	3.6
HCLR	HY/2011/03	2014-01-10	Mid-Flood	Fine	IS10	14:00:30	8.6	Bottom	3	1	17.26	8.22	32.22	90.3	7.15	5.5	4.2
HCLR	HY/2011/03	2014-01-10	Mid-Flood	Fine	IS10	13:59:48	8.6	Bottom	3	2	17.26	8.22	32.21	89.9	7.12	5.8	3.4
HCLR	HY/2011/03		Mid-Flood		SR3			Surface	1	1							
HCLR	HY/2011/03		Mid-Flood		SR3			Surface	1	2							
HCLR	HY/2011/03	2014-01-10	Mid-Flood	Fine	SR3	13:16:20	0.8	Middle	2	1	16.82	7.96	31.28	96.9	7.78	21.6	21.6
HCLR	HY/2011/03	2014-01-10	Mid-Flood	Fine	SR3	13:16:13	0.8	Middle	2	2	16.82	7.96	31.29	97.5	7.83	21.6	22.7
HCLR	HY/2011/03		Mid-Flood		SR3			Bottom	3	1							
HCLR	HY/2011/03		Mid-Flood		SR3			Bottom	3	2							

Water Quarterly Monitoring Data

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HCLR	HY/2011/03	2014-01-10	Mid-Flood	Fine	SR4	13:53:56	1.0	Surface	1	1	17.1	7.93	31.59	90.6	7.22	12.5	12.9
HCLR	HY/2011/03	2014-01-10	Mid-Flood	Fine	SR4	13:53:40	1.0	Surface	2	2	17.1	7.93	31.61	91.2	7.27	12.4	13.1
HCLR	HY/2011/03		Mid-Flood		SR4			Middle	2	2							
HCLR	HY/2011/03		Mid-Flood		SR4			Middle	2	2							
HCLR	HY/2011/03	2014-01-10	Mid-Flood	Fine	SR4	13:53:31	2.8	Bottom	3	1	17.11	7.93	31.61	91.7	7.31	12.7	15.1
HCLR	HY/2011/03	2014-01-10	Mid-Flood	Fine	SR4	13:53:48	2.8	Bottom	3	2	17.1	7.93	31.61	90.7	7.23	12.7	14.6
HCLR	HY/2011/03	2014-01-10	Mid-Flood	Fine	SR5	13:52:09	1.0	Surface	1	1	17.15	8.22	31.73	91.6	7.29	5.8	3.8
HCLR	HY/2011/03	2014-01-10	Mid-Flood	Fine	SR5	13:51:29	1.0	Surface	1	2	17.15	8.22	31.76	90.9	7.23	5.7	4.5
HCLR	HY/2011/03		Mid-Flood		SR5			Middle	2	1							
HCLR	HY/2011/03		Mid-Flood		SR5			Middle	2	2							
HCLR	HY/2011/03	2014-01-10	Mid-Flood	Fine	SR5	13:51:37	4.4	Bottom	3	1	17.17	8.22	31.93	90.9	7.22	5.7	4.6
HCLR	HY/2011/03	2014-01-10	Mid-Flood	Fine	SR5	13:51:15	4.4	Bottom	3	2	17.2	8.22	32.02	90.8	7.2	5.7	4.2
HCLR	HY/2011/03	2014-01-10	Mid-Flood	Fine	SR5	15:05:18	1.0	Surface	1	1	17.31	7.99	33.36	91.4	7.18	2.3	3.7
HCLR	HY/2011/03	2014-01-10	Mid-Flood	Fine	SR10A	15:05:49	1.0	Surface	1	1	17.31	8	33.34	91.1	7.15	2.3	4
HCLR	HY/2011/03	2014-01-10	Mid-Flood	Fine	SR10A	15:05:09	3.3	Middle	2	1	17.31	7.99	33.36	91.4	7.18	2.2	4.3
HCLR	HY/2011/03	2014-01-10	Mid-Flood	Fine	SR10A	15:05:34	3.3	Middle	2	2	17.31	8	33.35	91.1	7.16	2.3	4.2
HCLR	HY/2011/03	2014-01-10	Mid-Flood	Fine	SR10A	15:05:03	1	Bottom	3	1	17.31	7.99	33.37	91.6	7.19	2.3	3.7
HCLR	HY/2011/03	2014-01-10	Mid-Flood	Fine	SR10A	15:05:25	5.6	Bottom	3	2	17.31	8	33.35	91.2	7.16	2.3	3.2
HCLR	HY/2011/03	2014-01-10	Mid-Flood	Fine	SR10B	15:13:39	1.0	Surface	1	1	17.31	8	33.32	90.7	7.12	1.4	3.2
HCLR	HY/2011/03	2014-01-10	Mid-Flood	Fine	SR10B	15:13:18	1.0	Surface	1	2	17.31	8	33.32	90.7	7.13	1.5	2.6
HCLR	HY/2011/03		Mid-Flood		SR10B			Middle	2	1							
HCLR	HY/2011/03		Mid-Flood		SR10B			Middle	2	2							
HCLR	HY/2011/03	2014-01-10	Mid-Flood	Fine	SR10B	15:13:29	4.4	Bottom	3	1	17.31	8	33.32	90.6	7.12	1.4	3.7
HCLR	HY/2011/03	2014-01-10	Mid-Flood	Fine	SR10B	15:13:09	4.4	Bottom	3	2	17.31	8	33.33	90.6	7.12	1.4	3.8
HCLR	HY/2011/03	2014-01-10	Mid-Flood	Fine	CS2	12:38:40	1.0	Surface	1	1	17.15	8.23	31.81	92.5	7.36	5.7	4.2
HCLR	HY/2011/03	2014-01-10	Mid-Flood	Fine	CS2	12:38:06	1.0	Surface	1	2	17.15	8.24	31.86	94.1	7.49	5.7	4.3
HCLR	HY/2011/03	2014-01-10	Mid-Flood	Fine	CS2	12:38:32	3.3	Middle	2	1	17.16	8.24	31.85	92.5	7.35	5.7	4.4
HCLR	HY/2011/03	2014-01-10	Mid-Flood	Fine	CS2	12:37:59	3.3	Middle	2	2	17.16	8.24	31.92	94.4	7.5	5.8	4.5
HCLR	HY/2011/03	2014-01-10	Mid-Flood	Fine	CS2	12:38:19	5.5	Bottom	3	1	17.18	8.24	32.05	93.2	7.4	5.8	4.9
HCLR	HY/2011/03	2014-01-10	Mid-Flood	Fine	CS2	12:37:45	5.5	Bottom	3	2	17.19	8.25	32.24	96.8	7.67	5.7	4.5
HCLR	HY/2011/03	2014-01-10	Mid-Flood	Fine	CS(M)F5	14:33:28	1.0	Surface	1	1	17.31	7.99	33.01	91.1	7.18	2.3	2.3
HCLR	HY/2011/03	2014-01-10	Mid-Flood	Fine	CS(M)F5	14:34:05	1.0	Surface	1	2	17.31	7.99	33.01	91	7.16	2.5	3.2
HCLR	HY/2011/03	2014-01-10	Mid-Flood	Fine	CS(M)F5	14:33:18	6.8	Middle	2	1	17.31	7.99	33.13	90.8	7.14	2.4	2.2
HCLR	HY/2011/03	2014-01-10	Mid-Flood	Fine	CS(M)F5	14:33:55	6.8	Middle	2	2	17.31	7.99	33.12	90.5	7.12	2.5	3.9
HCLR	HY/2011/03	2014-01-10	Mid-Flood	Fine	CS(M)F5	14:33:44	12.5	Bottom	3	1	17.31	7.99	33.18	90.8	7.14	2.8	2.3
HCLR	HY/2011/03	2014-01-13	Mid-Ebb	Sunny	IS5	12:31:57	1.0	Surface	1	1	16.75	8.04	32.26	97.9	7.82	5.5	6.8
HCLR	HY/2011/03	2014-01-13	Mid-Ebb	Sunny	IS5	12:31:16	1.0	Surface	1	2	16.8	8.03	32.28	98	7.8	5.7	7.2
HCLR	HY/2011/03	2014-01-13	Mid-Ebb	Sunny	IS5	12:31:41	4.6	Middle	2	1	16.92	8.03	32.34	97.2	7.74	6	7.3
HCLR	HY/2011/03	2014-01-13	Mid-Ebb	Sunny	IS5	12:31:09	4.6	Middle	2	2	16.87	8.03	32.33	97.5	7.78	6.2	6.6
HCLR	HY/2011/03	2014-01-13	Mid-Ebb	Sunny	IS5	12:31:33	8.1	Bottom	3	1	16.95	8.03	32.39	97.1	7.73	6.2	6.5
HCLR	HY/2011/03	2014-01-13	Mid-Ebb	Sunny	IS5	12:31:00	8.1	Bottom	3	2	16.9	8.03	32.39	97.5	7.77	6.3	6
HCLR	HY/2011/03	2014-01-13	Mid-Ebb	Sunny	IS(M)F6	12:23:27	1.0	Surface	1	1	17.04	8.03	32.36	100.3	7.97	7.4	7.7
HCLR	HY/2011/03	2014-01-13	Mid-Ebb	Sunny	IS(M)F6	12:23:49	1.0	Surface	1	2	17.04	8.03	32.35	99.5	7.91	7.2	7.1
HCLR	HY/2011/03		Mid-Ebb		IS(M)F6			Middle	2	1							
HCLR	HY/2011/03		Mid-Ebb		IS(M)F6			Middle	2	2							
HCLR	HY/2011/03	2014-01-13	Mid-Ebb	Sunny	IS(M)F6	12:23:24	2.3	Bottom	3	1	17.04	8.03	32.36	100	7.94	7.7	8.7
HCLR	HY/2011/03	2014-01-13	Mid-Ebb	Sunny	IS(M)F6	12:23:34	2.3	Bottom	3	2	17.04	8.03	32.36	99.1	7.88	7.7	8.6
HCLR	HY/2011/03	2014-01-13	Mid-Ebb	Sunny	IS7	12:16:55	1.0	Surface	1	1	16.92	8.03	32.27	101.2	8.06	8.3	8.6
HCLR	HY/2011/03	2014-01-13	Mid-Ebb	Sunny	IS7	12:17:23	1.0	Surface	1	2	16.97	8.03	32.25	100.7	8.02	8.2	9.9
HCLR	HY/2011/03		Mid-Ebb		IS7			Middle	2	1							
HCLR	HY/2011/03		Mid-Ebb		IS7			Middle	2	2							
HCLR	HY/2011/03	2014-01-13	Mid-Ebb	Sunny	IS7	12:16:59	2.3	Bottom	3	1	16.94	8.03	32.26	100.3	7.99	8.7	9.3
HCLR	HY/2011/03	2014-01-13	Mid-Ebb	Sunny	IS7	12:16:51	2.3	Bottom	3	2	16.93	8.03	32.27	100.9	8.04	8.5	9.6
HCLR	HY/2011/03	2014-01-13	Mid-Ebb	Sunny	IS8	11:54:05	1.0	Surface	1	1	17.11	8.01	31.88	100.5	7.99	9.2	9.9
HCLR	HY/2011/03	2014-01-13	Mid-Ebb	Sunny	IS8	11:54:15	1.0	Surface	1	2	17.11	8.02	31.88	99.7	7.93	9.4	9.1
HCLR	HY/2011/03		Mid-Ebb		IS8			Middle	2	1							
HCLR	HY/2011/03		Mid-Ebb		IS8			Middle	2	2							
HCLR	HY/2011/03	2014-01-13	Mid-Ebb	Sunny	IS8	11:54:00	2.3	Bottom	3	1	17.11	8.01	31.87	100.1	7.97	9.3	13.3
HCLR	HY/2011/03	2014-01-13	Mid-Ebb	Sunny	IS8	11:54:11	2.3	Bottom	3	2	17.11	8.02	31.88	99.4	7.91	9.6	12.8
HCLR	HY/2011/03	2014-01-13	Mid-Ebb	Sunny	IS(M)F9	12:11:29	1.0	Surface	1	1	16.99	8.02	32.24	100.9	8.03	8	9.9
HCLR	HY/2011/03	2014-01-13	Mid-Ebb	Sunny	IS(M)F9	12:11:38	1.0	Surface	1	2	16.99	8.03	32.24	100.6	8	8.1	9

Water Quarterly Monitoring Data

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HCLR	HY/2011/03		Mid-Ebb		IS(M)F9			Middle	2	1							
HCLR	HY/2011/03		Mid-Ebb		IS(M)F9			Middle	2	2							
HCLR	HY/2011/03	2014-01-13	Mid-Ebb	Sunny	IS(M)F9	12:11:26	2.3	Bottom	3	1	16.99	8.02	32.23	100.7	8.01	8.4	10
HCLR	HY/2011/03	2014-01-13	Mid-Ebb	Sunny	IS(M)F9	12:11:34	2.3	Bottom	3	2	16.99	8.03	32.23	100.4	7.99	8.1	10.5
HCLR	HY/2011/03	2014-01-13	Mid-Ebb	Sunny	IS10	11:23:33	1.0	Surface	1	1	17.24	8.22	32.21	94.8	7.51	4.7	4.7
HCLR	HY/2011/03	2014-01-13	Mid-Ebb	Sunny	IS10	11:22:51	1.0	Surface	1	2	17.24	8.22	32.21	95.1	7.53	4.7	5.1
HCLR	HY/2011/03	2014-01-13	Mid-Ebb	Sunny	IS10	11:22:37	5.4	Middle	2	1	17.22	8.21	32.24	94.5	7.48	4.7	4.8
HCLR	HY/2011/03	2014-01-13	Mid-Ebb	Sunny	IS10	11:23:22	5.4	Middle	2	2	17.23	8.22	32.25	94.2	7.46	4.7	4.4
HCLR	HY/2011/03	2014-01-13	Mid-Ebb	Sunny	IS10	11:23:12	9.8	Bottom	3	1	17.25	8.22	32.32	94.6	7.49	4.6	5.4
HCLR	HY/2011/03	2014-01-13	Mid-Ebb	Sunny	IS10	11:22:23	9.8	Bottom	3	2	17.25	8.2	32.3	94.9	7.51	4.7	5.8
HCLR	HY/2011/03		Mid-Ebb		SR3			Surface	1	1							
HCLR	HY/2011/03		Mid-Ebb		SR3			Surface	1	2							
HCLR	HY/2011/03	2014-01-13	Mid-Ebb	Sunny	SR3	12:38:40	0.8	Middle	2	1	16.76	8.04	32.26	98.1	7.84	5.4	5.5
HCLR	HY/2011/03	2014-01-13	Mid-Ebb	Sunny	SR3	12:38:42	0.8	Middle	2	2	16.77	8.04	32.26	98.1	7.84	5.5	6.2
HCLR	HY/2011/03		Mid-Ebb		SR3			Bottom	3	1							
HCLR	HY/2011/03		Mid-Ebb		SR3			Bottom	3	2							
HCLR	HY/2011/03	2014-01-13	Mid-Ebb	Sunny	SR4	12:00:31	1.0	Surface	1	1	17.06	7.99	31.93	98.1	7.81	7	3.8
HCLR	HY/2011/03	2014-01-13	Mid-Ebb	Sunny	SR4	12:00:19	1.0	Surface	1	2	17.06	7.99	31.93	99.8	7.95	7	3.8
HCLR	HY/2011/03		Mid-Ebb		SR4			Middle	2	1							
HCLR	HY/2011/03		Mid-Ebb		SR4			Middle	2	2							
HCLR	HY/2011/03	2014-01-13	Mid-Ebb	Sunny	SR4	12:00:26	2.5	Bottom	3	1	17.06	7.99	31.93	97.5	7.77	7.1	5.9
HCLR	HY/2011/03	2014-01-13	Mid-Ebb	Sunny	SR4	12:00:15	2.5	Bottom	3	2	17.06	7.99	31.93	99	7.88	7	4.6
HCLR	HY/2011/03	2014-01-13	Mid-Ebb	Sunny	SR5	11:32:56	1.0	Surface	1	1	17.26	8.23	32.21	95.3	7.55	4.5	7.6
HCLR	HY/2011/03	2014-01-13	Mid-Ebb	Sunny	SR5	11:33:20	1.0	Surface	1	2	17.25	8.23	32.21	95.4	7.56	4.4	7.5
HCLR	HY/2011/03		Mid-Ebb		SR5			Middle	2	1							
HCLR	HY/2011/03		Mid-Ebb		SR5			Middle	2	2							
HCLR	HY/2011/03	2014-01-13	Mid-Ebb	Sunny	SR5	11:33:06	3.8	Bottom	3	1	17.24	8.23	32.22	95.2	7.54	4.4	7.7
HCLR	HY/2011/03	2014-01-13	Mid-Ebb	Sunny	SR5	11:32:42	3.8	Bottom	3	2	17.24	8.22	32.23	95.1	7.53	4.5	6.4
HCLR	HY/2011/03	2014-01-13	Mid-Ebb	Sunny	SR10A	10:13:16	1.0	Surface	1	1	17.14	7.96	33.08	97.3	7.23	1.9	4.4
HCLR	HY/2011/03	2014-01-13	Mid-Ebb	Sunny	SR10A	10:13:32	1.0	Surface	1	2	17.14	7.96	33.08	91.3	7.2	1.8	3.6
HCLR	HY/2011/03	2014-01-13	Mid-Ebb	Sunny	SR10A	10:13:28	3.3	Middle	2	1	17.14	7.96	33.08	91.3	7.21	2	3.7
HCLR	HY/2011/03	2014-01-13	Mid-Ebb	Sunny	SR10A	10:13:11	3.3	Middle	2	2	17.14	7.96	33.08	91.3	7.21	2	3.9
HCLR	HY/2011/03	2014-01-13	Mid-Ebb	Sunny	SR10A	10:13:22	5.5	Bottom	3	1	17.15	7.96	33.07	91.2	7.2	2	3.2
HCLR	HY/2011/03	2014-01-13	Mid-Ebb	Sunny	SR10A	10:12:48	5.5	Bottom	3	2	17.13	7.96	33.07	91.2	7.2	2.1	3.4
HCLR	HY/2011/03	2014-01-13	Mid-Ebb	Sunny	SR10B	10:07:31	1.0	Surface	1	1	17.14	7.95	33	94.2	7.44	2	3.6
HCLR	HY/2011/03	2014-01-13	Mid-Ebb	Sunny	SR10B	10:07:16	1.0	Surface	1	2	17.14	7.95	32.98	95.5	7.54	2	4.4
HCLR	HY/2011/03		Mid-Ebb		SR10B			Middle	2	1							
HCLR	HY/2011/03		Mid-Ebb		SR10B			Middle	2	2							
HCLR	HY/2011/03	2014-01-13	Mid-Ebb	Sunny	SR10B	10:07:09	4.1	Bottom	3	1	17.14	7.95	32.97	94.9	7.5	2	3.5
HCLR	HY/2011/03	2014-01-13	Mid-Ebb	Sunny	SR10B	10:07:22	4.1	Bottom	3	2	17.14	7.95	32.99	93.7	7.4	2.1	3.5
HCLR	HY/2011/03	2014-01-13	Mid-Ebb	Sunny	CS2	13:06:15	1.0	Surface	1	1	17.25	8.22	32.22	94.4	7.48	5.7	5.8
HCLR	HY/2011/03	2014-01-13	Mid-Ebb	Sunny	CS2	13:06:43	1.0	Surface	1	2	17.24	8.23	32.22	94.4	7.48	5.4	4.8
HCLR	HY/2011/03	2014-01-13	Mid-Ebb	Sunny	CS2	13:06:35	4.0	Middle	2	1	17.22	8.23	32.24	94.1	7.45	6.6	4.2
HCLR	HY/2011/03	2014-01-13	Mid-Ebb	Sunny	CS2	13:06:04	4.0	Middle	2	2	17.23	8.22	32.24	94	7.45	6.5	4.7
HCLR	HY/2011/03	2014-01-13	Mid-Ebb	Sunny	CS2	13:05:55	6.9	Bottom	3	1	17.21	8.22	32.27	93.9	7.44	7.9	4.7
HCLR	HY/2011/03	2014-01-13	Mid-Ebb	Sunny	CS2	13:06:26	6.9	Bottom	3	2	17.22	8.23	32.26	94.2	7.46	8	5
HCLR	HY/2011/03	2014-01-13	Mid-Ebb	Sunny	CS(M)F5	10:45:36	1.0	Surface	1	1	17.17	8	33.15	91.5	7.19	1.5	3.2
HCLR	HY/2011/03	2014-01-13	Mid-Ebb	Sunny	CS(M)F5	10:44:50	1.0	Surface	1	2	17.17	8	33.15	91.5	7.22	1.6	3.4
HCLR	HY/2011/03	2014-01-13	Mid-Ebb	Sunny	CS(M)F5	10:44:37	6.4	Middle	2	1	17.15	8	33.17	91.2	7.2	1.6	4.1
HCLR	HY/2011/03	2014-01-13	Mid-Ebb	Sunny	CS(M)F5	10:45:26	6.4	Middle	2	2	17.15	8	33.17	90.9	7.17	1.5	2.7
HCLR	HY/2011/03	2014-01-13	Mid-Ebb	Sunny	CS(M)F5	10:44:23	11.7	Bottom	3	1	17.15	7.99	33.18	91	7.18	1.6	3.9
HCLR	HY/2011/03	2014-01-13	Mid-Ebb	Sunny	CS(M)F5	10:45:17	11.7	Bottom	3	2	17.15	8	33.17	90.7	7.15	1.6	5.6
HCLR	HY/2011/03	2014-01-13	Mid-Flood	Sunny	ISS	15:39:25	1.0	Surface	1	1	17.06	8.04	32.38	98.1	7.79	6.1	8.6
HCLR	HY/2011/03	2014-01-13	Mid-Flood	Sunny	ISS	15:38:57	1.0	Surface	1	2	17.06	8.04	32.38	98.2	7.8	6.1	9.6
HCLR	HY/2011/03	2014-01-13	Mid-Flood	Sunny	ISS	15:39:18	4.5	Middle	2	1	17.03	8.03	32.4	97.9	7.77	6.2	10.4
HCLR	HY/2011/03	2014-01-13	Mid-Flood	Sunny	ISS	15:38:51	4.5	Middle	2	2	17.02	8.03	32.4	98	7.78	6.2	10.1
HCLR	HY/2011/03	2014-01-13	Mid-Flood	Sunny	ISS	15:39:13	8.0	Bottom	3	1	17.03	8.03	32.39	97.8	7.77	6.3	9.8
HCLR	HY/2011/03	2014-01-13	Mid-Flood	Sunny	ISS	15:38:45	8.0	Bottom	3	2	17.03	8.04	32.39	97.9	7.77	6.3	9.6
HCLR	HY/2011/03	2014-01-13	Mid-Flood	Sunny	IS(M)F6	15:46:47	1.0	Surface	1	1	17.08	8.04	32.29	101.8	8.08	9.2	11.2
HCLR	HY/2011/03	2014-01-13	Mid-Flood	Sunny	IS(M)F6	15:47:14	1.0	Surface	1	2	17.07	8.04	32.31	101.5	8.06	9.1	10.7
HCLR	HY/2011/03		Mid-Flood		IS(M)F6			Middle	2	1							
HCLR	HY/2011/03		Mid-Flood		IS(M)F6			Middle	2	2							

Water Quarterly Monitoring Data

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L	
HCLR	HY/2011/03	2014-01-13	Mid-Flood	Sunny	IS(M)F6	15:46:56	2.3	Bottom	3	1	17.1	8.04	32.33	101.5	8.06	9.4	11	
HCLR	HY/2011/03	2014-01-13	Mid-Flood	Sunny	IS(M)F6	15:46:40	2.3	Bottom	3	2	17.08	8.04	32.29	101.8	8.09	9.2	11.2	
HCLR	HY/2011/03	2014-01-13	Mid-Flood	Sunny	IS7	15:53:08	1.0	Surface	1	1	17.12	8.03	32.27	101.3	8.04	10.4	10.1	
HCLR	HY/2011/03	2014-01-13	Mid-Flood	Sunny	IS7	15:52:55	1.0	Surface	1	2	17.11	8.03	32.28	101.8	8.08	10.5	10.4	
HCLR	HY/2011/03	2014-01-13	Mid-Flood	Sunny	IS7	15:52:51	2.3	Middle	2	1	17.11	8.03	32.28	101.6	8.06	10.6	12.8	
HCLR	HY/2011/03	2014-01-13	Mid-Flood	Sunny	IS7	15:53:00	2.3	Bottom	3	2	17.12	8.03	32.28	101	8.02	10.6	13.5	
HCLR	HY/2011/03	2014-01-13	Mid-Flood	Sunny	IS8	15:17:02	1.0	Surface	1	1	17.27	8.02	31.93	101	8.01	11.9	16.7	
HCLR	HY/2011/03	2014-01-13	Mid-Flood	Sunny	IS8	15:17:19	1.0	Surface	1	2	17.27	8.02	31.93	100.2	7.94	11.7	15.3	
HCLR	HY/2011/03	2014-01-13	Mid-Flood	Sunny	IS8	15:17:08	2.4	Middle	2	1	17.27	8.02	31.93	99.7	7.91	11.8	15.2	
HCLR	HY/2011/03	2014-01-13	Mid-Flood	Sunny	IS8	15:16:55	2.4	Bottom	3	1	17.07	8.02	31.93	100.6	7.97	12	16.1	
HCLR	HY/2011/03	2014-01-13	Mid-Flood	Sunny	IS(M)F9	15:58:58	1.0	Surface	1	1	17.07	8.05	32.29	103.3	8.21	7.6	5.4	
HCLR	HY/2011/03	2014-01-13	Mid-Flood	Sunny	IS(M)F9	15:59:52	1.0	Surface	1	2	17.08	8.05	32.29	103	8.18	7.7	6.9	
HCLR	HY/2011/03	2014-01-13	Mid-Flood	Sunny	IS(M)F9	15:59:02	2.4	Middle	2	1	17.07	8.05	32.29	102.5	8.14	7.9	6.1	
HCLR	HY/2011/03	2014-01-13	Mid-Flood	Sunny	IS(M)F9	15:58:52	2.4	Bottom	3	2	17.07	8.05	32.29	103.1	8.19	7.8	5.4	
HCLR	HY/2011/03	2014-01-13	Mid-Flood	Sunny	IS10	16:43:11	1.0	Surface	1	1	17.19	8.24	31.96	94.5	7.5	7.5	4.5	
HCLR	HY/2011/03	2014-01-13	Mid-Flood	Sunny	IS10	16:42:34	1.0	Surface	1	2	17.19	8.24	31.97	94.3	7.49	7.4	5.7	
HCLR	HY/2011/03	2014-01-13	Mid-Flood	Sunny	IS10	16:42:58	5.3	Middle	2	1	17.2	8.24	32.13	93.6	7.42	7.4	6.1	
HCLR	HY/2011/03	2014-01-13	Mid-Flood	Sunny	IS10	16:42:23	5.3	Middle	2	2	17.21	8.23	32.15	93.5	7.42	7.5	5.4	
HCLR	HY/2011/03	2014-01-13	Mid-Flood	Sunny	IS10	16:42:14	9.5	Bottom	3	1	17.22	8.23	32.41	94.3	7.46	7.9	7.8	
HCLR	HY/2011/03	2014-01-13	Mid-Flood	Sunny	IS10	16:42:48	9.5	Bottom	3	2	17.22	8.23	32.42	94.3	7.46	7.7	6.3	
HCLR	HY/2011/03	2014-01-13	Mid-Flood	Sunny	SR3			Surface	1	1								
HCLR	HY/2011/03	2014-01-13	Mid-Flood	Sunny	SR3			Surface	1	2								
HCLR	HY/2011/03	2014-01-13	Mid-Flood	Sunny	SR3	15:32:42	0.8	Middle	2	1	17.08	8.03	32.32	102.8	8.16	6.3	8.2	
HCLR	HY/2011/03	2014-01-13	Mid-Flood	Sunny	SR3	15:32:45	0.8	Middle	2	2	17.08	8.03	32.32	102.4	8.13	6.3	7.8	
HCLR	HY/2011/03	2014-01-13	Mid-Flood	Sunny	SR3			Bottom	3	1								
HCLR	HY/2011/03	2014-01-13	Mid-Flood	Sunny	SR4	15:11:24	1.0	Surface	1	1	17.24	8.03	31.83	101.3	8.04	5.9	8.2	
HCLR	HY/2011/03	2014-01-13	Mid-Flood	Sunny	SR4	15:11:40	1.0	Surface	1	2	17.24	8.03	31.83	100.8	8	6	8.1	
HCLR	HY/2011/03	2014-01-13	Mid-Flood	Sunny	SR4	15:11:33	2.3	Middle	2	1								
HCLR	HY/2011/03	2014-01-13	Mid-Flood	Sunny	SR4	15:11:33	2.3	Bottom	3	1	17.24	8.03	31.82	100.6	7.99	6	8.4	
HCLR	HY/2011/03	2014-01-13	Mid-Flood	Sunny	SR4	15:11:20	2.3	Bottom	3	2	17.25	8.03	31.82	101.1	8.02	5.9	6.8	
HCLR	HY/2011/03	2014-01-13	Mid-Flood	Sunny	SR5	16:31:19	1.0	Surface	1	1	17.19	8.23	31.96	96.5	7.67	5.1	5.5	
HCLR	HY/2011/03	2014-01-13	Mid-Flood	Sunny	SR5	16:31:35	1.0	Surface	1	2	17.19	8.23	31.95	96.3	7.65	5.2	6	
HCLR	HY/2011/03	2014-01-13	Mid-Flood	Sunny	SR5			Middle	2	1								
HCLR	HY/2011/03	2014-01-13	Mid-Flood	Sunny	SR5			Middle	2	2								
HCLR	HY/2011/03	2014-01-13	Mid-Flood	Sunny	SR5	16:31:12	3.6	Bottom	3	1	17.19	8.24	31.98	96.7	7.68	5.2	5.9	
HCLR	HY/2011/03	2014-01-13	Mid-Flood	Sunny	SR5	16:31:26	3.6	Bottom	3	2	17.19	8.23	31.97	96.4	7.65	5.5	5.5	
HCLR	HY/2011/03	2014-01-13	Mid-Flood	Sunny	SR10A	17:08:27	1.0	Surface	1	1	17.15	8.03	33.29	92.5	7.29	1.6	4.6	
HCLR	HY/2011/03	2014-01-13	Mid-Flood	Sunny	SR10A	17:07:59	1.0	Surface	1	2	17.15	8.03	33.29	93.3	7.35	1.6	4.4	
HCLR	HY/2011/03	2014-01-13	Mid-Flood	Sunny	SR10A	17:07:53	3.2	Middle	2	1	17.15	8.03	33.3	93.1	7.34	1.6	3.2	
HCLR	HY/2011/03	2014-01-13	Mid-Flood	Sunny	SR10A	17:08:17	3.2	Middle	2	2	17.15	8.03	33.3	92.4	7.29	1.6	3.5	
HCLR	HY/2011/03	2014-01-13	Mid-Flood	Sunny	SR10A	17:07:46	5.3	Bottom	3	1	17.15	8.03	33.3	92.9	7.32	1.7	6.1	
HCLR	HY/2011/03	2014-01-13	Mid-Flood	Sunny	SR10A	17:08:08	5.3	Bottom	3	2	17.15	8.03	33.3	92.4	7.29	1.6	5.8	
HCLR	HY/2011/03	2014-01-13	Mid-Flood	Sunny	SR10B	17:09:56	1.0	Surface	1	1	17.15	8.04	33.3	94.2	7.43	2	2.9	
HCLR	HY/2011/03	2014-01-13	Mid-Flood	Sunny	SR10B	17:10:10	1.0	Surface	1	2	17.15	8.04	33.3	93.3	7.35	2	2.4	
HCLR	HY/2011/03	2014-01-13	Mid-Flood	Sunny	SR10B			Middle	2	1								
HCLR	HY/2011/03	2014-01-13	Mid-Flood	Sunny	SR10B			Middle	2	2								
HCLR	HY/2011/03	2014-01-13	Mid-Flood	Sunny	SR10B	17:09:51	3.8	Bottom	3	1	17.15	8.04	33.3	93.8	7.39	2	2.9	
HCLR	HY/2011/03	2014-01-13	Mid-Flood	Sunny	SR10B	17:10:02	3.8	Bottom	3	2	17.15	8.04	33.3	92.9	7.33	2.1	2.7	
HCLR	HY/2011/03	2014-01-13	Mid-Flood	Sunny	CS2	15:03:35	1.0	Surface	1	1	17.32	8.28	32.23	96.7	7.64	3.9	3.6	
HCLR	HY/2011/03	2014-01-13	Mid-Flood	Sunny	CS2	15:03:06	1.0	Surface	1	2	17.32	8.27	32.29	96.6	7.63	4	4	
HCLR	HY/2011/03	2014-01-13	Mid-Flood	Sunny	CS2	15:03:24	4.0	Middle	2	1	17.31	8.27	32.27	96.4	7.62	3.9	4.2	
HCLR	HY/2011/03	2014-01-13	Mid-Flood	Sunny	CS2	15:02:57	4.0	Middle	2	2	17.3	8.26	32.36	96.2	7.6	4.2	4.1	
HCLR	HY/2011/03	2014-01-13	Mid-Flood	Sunny	CS2	15:02:37	7.0	Bottom	3	1	17.28	8.28	32.47	98.2	7.76	4.5	4.8	
HCLR	HY/2011/03	2014-01-13	Mid-Flood	Sunny	CS2	15:03:17	7.0	Bottom	3	2	17.31	8.27	32.29	96.6	7.63	4.4	5.6	

Water Quarterly Monitoring Data

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HCLR	HY/2011/03	2014-01-13	Mid-Flood	Sunny	CS(MF)5	16:36:22	1.0	Surface	1	1	17.3	8.04	32.83	93.8	7.39	1.9	2.4
HCLR	HY/2011/03	2014-01-13	Mid-Flood	Sunny	CS(MF)5	16:35:29	1.0	Surface	1	2	17.28	8.04	32.87	94.7	7.46	1.8	3
HCLR	HY/2011/03	2014-01-13	Mid-Flood	Sunny	CS(MF)5	16:36:09	6.4	Middle	2	1	17.23	8.03	33.13	92.3	7.27	2.1	3
HCLR	HY/2011/03	2014-01-13	Mid-Flood	Sunny	CS(MF)5	16:35:19	6.4	Middle	2	2	17.22	8.02	33.17	94	7.41	1.9	3.6
HCLR	HY/2011/03	2014-01-13	Mid-Flood	Sunny	CS(MF)5	16:35:58	11.7	Bottom	3	1	17.21	8.02	33.21	92.2	7.26	2.2	2
HCLR	HY/2011/03	2014-01-13	Mid-Flood	Sunny	CS(MF)5	16:35:09	11.7	Bottom	3	2	17.23	8.02	33.13	93.5	7.36	2	3.6
HCLR	HY/2011/03	2014-01-15	Mid-Ebb	Sunny	IS5	11:41:21	1.0	Surface	1	1	16.49	8.01	32.39	98.4	7.9	6.5	8.2
HCLR	HY/2011/03	2014-01-15	Mid-Ebb	Sunny	IS5	11:41:55	1.0	Surface	1	2	16.45	8.01	32.38	98.2	7.89	6.7	8.2
HCLR	HY/2011/03	2014-01-15	Mid-Ebb	Sunny	IS5	11:41:45	4.5	Middle	2	1	16.36	8.01	32.37	97.8	7.87	6.9	9.4
HCLR	HY/2011/03	2014-01-15	Mid-Ebb	Sunny	IS5	11:41:09	4.5	Middle	2	2	16.37	8	32.37	97.8	7.87	6.5	9.4
HCLR	HY/2011/03	2014-01-15	Mid-Ebb	Sunny	IS5	11:40:57	7.9	Bottom	3	1	16.39	8	32.36	97.7	7.87	6.9	9.5
HCLR	HY/2011/03	2014-01-15	Mid-Ebb	Sunny	IS5	11:41:35	7.9	Bottom	3	2	16.37	8	32.36	97.7	7.86	6.8	8.5
HCLR	HY/2011/03	2014-01-15	Mid-Ebb	Sunny	IS(MF)6	11:48:52	1.0	Surface	1	1	16.58	8.01	32.29	101.7	8.15	5.9	9.2
HCLR	HY/2011/03	2014-01-15	Mid-Ebb	Sunny	IS(MF)6	11:49:10	1.0	Surface	1	2	16.55	8.01	32.3	101.5	8.15	6	8
HCLR	HY/2011/03	2014-01-15	Mid-Ebb	Sunny	IS(MF)6	11:49:01	2.1	Middle	2	1	16.48	8.01	32.29	101.3	8.14	6.2	8.9
HCLR	HY/2011/03	2014-01-15	Mid-Ebb	Sunny	IS(MF)6	11:48:39	2.1	Bottom	3	2	16.46	8.01	32.3	101.5	8.15	6.3	8.6
HCLR	HY/2011/03	2014-01-15	Mid-Ebb	Sunny	IS7	11:56:00	1.0	Surface	1	1	16.68	8.02	32.32	102	8.16	7.2	9.4
HCLR	HY/2011/03	2014-01-15	Mid-Ebb	Sunny	IS7	11:56:20	1.0	Surface	1	2	16.62	8.03	32.33	101.8	8.15	7.6	8.2
HCLR	HY/2011/03	2014-01-15	Mid-Ebb	Sunny	IS7	11:56:10	2.2	Middle	2	1	16.54	8.02	32.33	101.6	8.15	7.5	11
HCLR	HY/2011/03	2014-01-15	Mid-Ebb	Sunny	IS7	11:55:46	2.2	Bottom	3	2	16.59	8.02	32.31	101.8	8.16	8	11.4
HCLR	HY/2011/03	2014-01-15	Mid-Ebb	Sunny	IS8	12:19:38	1.0	Surface	1	1	16.82	8.01	32.89	97.7	7.77	4.6	5.4
HCLR	HY/2011/03	2014-01-15	Mid-Ebb	Sunny	IS8	12:19:19	1.0	Surface	1	2	16.81	8.01	32.89	97.9	7.79	4.7	7.2
HCLR	HY/2011/03	2014-01-15	Mid-Ebb	Sunny	IS8	12:19:27	2.9	Middle	2	1	16.79	8.01	32.89	97.7	7.78	4.9	6.2
HCLR	HY/2011/03	2014-01-15	Mid-Ebb	Sunny	IS8	12:19:09	2.9	Bottom	3	2	16.75	8.01	32.89	97.6	7.78	4.9	6.6
HCLR	HY/2011/03	2014-01-15	Mid-Ebb	Sunny	IS(MF)9	12:02:29	1.0	Surface	1	1	16.61	8.01	32.44	98.5	7.89	8.4	8.4
HCLR	HY/2011/03	2014-01-15	Mid-Ebb	Sunny	IS(MF)9	12:02:54	1.0	Surface	1	2	16.62	8.01	32.44	98.6	7.9	8.5	8.2
HCLR	HY/2011/03	2014-01-15	Mid-Ebb	Sunny	IS(MF)9	12:02:41	2.6	Middle	2	1	16.59	8.01	32.44	98.5	7.89	8.6	8.3
HCLR	HY/2011/03	2014-01-15	Mid-Ebb	Sunny	IS(MF)9	12:02:17	2.6	Bottom	3	2	16.58	8	32.47	98.5	7.89	8.6	10
HCLR	HY/2011/03	2014-01-15	Mid-Ebb	Sunny	IS10	12:18:45	1.0	Surface	1	1	16.61	8.24	32.94	94.9	7.57	10.2	9.8
HCLR	HY/2011/03	2014-01-15	Mid-Ebb	Sunny	IS10	12:19:24	1.0	Surface	1	2	16.76	8.24	32.9	95	7.57	10.2	10.6
HCLR	HY/2011/03	2014-01-15	Mid-Ebb	Sunny	IS10	12:18:38	5.6	Middle	2	1	16.62	8.24	33.02	94.7	7.56	10.2	10.7
HCLR	HY/2011/03	2014-01-15	Mid-Ebb	Sunny	IS10	12:19:10	5.6	Middle	2	2	16.62	8.24	33	94.4	7.53	10.3	9.8
HCLR	HY/2011/03	2014-01-15	Mid-Ebb	Sunny	IS10	12:18:30	10.2	Bottom	3	1	16.62	8.24	33.03	94.7	7.55	10.5	9.9
HCLR	HY/2011/03	2014-01-15	Mid-Ebb	Sunny	IS10	12:19:04	10.2	Bottom	3	2	16.62	8.24	33.04	94.3	7.52	10.5	11
HCLR	HY/2011/03	2014-01-15	Mid-Ebb	Sunny	SR3	11:31:09	0.7	Middle	1	1	16.57	7.98	32.4	99.9	8	5.6	5.4
HCLR	HY/2011/03	2014-01-15	Mid-Ebb	Sunny	SR3	11:31:16	0.7	Middle	1	2	16.55	7.98	32.4	99.7	7.99	5.7	5.4
HCLR	HY/2011/03	2014-01-15	Mid-Ebb	Sunny	SR3	12:13:08	1.0	Bottom	3	1	16.62	7.98	32.66	98.2	7.85	6.3	7.9
HCLR	HY/2011/03	2014-01-15	Mid-Ebb	Sunny	SR4	12:13:25	1.0	Surface	1	2	16.63	7.99	32.66	97.2	7.77	6.1	9.5
HCLR	HY/2011/03	2014-01-15	Mid-Ebb	Sunny	SR4	12:13:16	2.7	Middle	2	1	16.63	7.99	32.66	97.6	7.8	6.3	9
HCLR	HY/2011/03	2014-01-15	Mid-Ebb	Sunny	SR4	12:12:58	2.7	Bottom	3	2	16.55	7.97	32.71	98.7	7.9	6.6	8.7
HCLR	HY/2011/03	2014-01-15	Mid-Ebb	Sunny	SR5	12:05:28	1.0	Surface	1	1	16.59	8.24	32.93	95	7.59	10.3	9.8
HCLR	HY/2011/03	2014-01-15	Mid-Ebb	Sunny	SR5	12:04:45	1.0	Surface	1	2	16.62	8.24	32.92	95.3	7.61	10.4	10
HCLR	HY/2011/03	2014-01-15	Mid-Ebb	Sunny	SR5	12:04:31	4.1	Middle	2	1	16.62	8.24	33.02	95.3	7.6	10.4	9.3
HCLR	HY/2011/03	2014-01-15	Mid-Ebb	Sunny	SR5	12:05:01	4.1	Bottom	3	2	16.63	8.24	33.03	95	7.58	10.5	10.2
HCLR	HY/2011/03	2014-01-15	Mid-Ebb	Sunny	SR10A	13:33:44	1.0	Surface	1	1	16.79	8.05	33.26	97.7	7.75	1.5	3.4
HCLR	HY/2011/03	2014-01-15	Mid-Ebb	Sunny	SR10A	13:33:08	1.0	Surface	1	2	16.79	8.05	33.25	97.7	7.76	1.5	4

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2014-01-15	Mid-Ebb	Sunny	SR10A	13:33:35	3.2	Middle	2	1	16.78	8.05	33.26	97.5	7.74	1.5	3.5
HKLR	HY/2011/03	2014-01-15	Mid-Ebb	Sunny	SR10A	13:32:56	3.2	Middle	2	2	16.79	8.05	33.26	97.6	7.75	1.5	3.7
HKLR	HY/2011/03	2014-01-15	Mid-Ebb	Sunny	SR10A	13:32:45	5.3	Bottom	3	1	16.78	8.05	33.26	97.5	7.74	1.4	3.4
HKLR	HY/2011/03	2014-01-15	Mid-Ebb	Sunny	SR10A	13:33:27	5.3	Bottom	3	2	16.78	8.06	33.27	97.2	7.72	1.5	4.1
HKLR	HY/2011/03	2014-01-15	Mid-Ebb	Sunny	SR10B	13:43:32	1.0	Surface	1	1	16.78	8.06	33.26	97.3	7.73	1.3	4.2
HKLR	HY/2011/03	2014-01-15	Mid-Ebb	Sunny	SR10B	13:43:10	1.0	Surface	1	2	16.78	8.06	33.26	97.4	7.73	1.2	4.4
HKLR	HY/2011/03	2014-01-15	Mid-Ebb	Sunny	SR10B	13:43:22	4.3	Bottom	3	1	16.78	8.06	33.26	97.2	7.72	1.2	4.6
HKLR	HY/2011/03	2014-01-15	Mid-Ebb	Sunny	SR10B	13:43:00	4.3	Bottom	3	2	16.78	8.06	33.26	97.2	7.71	1.3	4.6
HKLR	HY/2011/03	2014-01-15	Mid-Ebb	Sunny	CS2	11:08:37	1.0	Surface	1	1	16.81	8.26	33.21	97.5	7.78	6.2	8.3
HKLR	HY/2011/03	2014-01-15	Mid-Ebb	Sunny	CS2	11:09:14	1.0	Surface	1	2	16.79	8.27	33.18	97.9	7.59	6.4	9.1
HKLR	HY/2011/03	2014-01-15	Mid-Ebb	Sunny	CS2	11:08:24	4.0	Middle	2	1	16.69	8.26	33.25	96.1	7.63	6.4	10
HKLR	HY/2011/03	2014-01-15	Mid-Ebb	Sunny	CS2	11:08:57	4.0	Middle	2	2	16.68	8.27	33.21	95.2	7.57	6.6	9.9
HKLR	HY/2011/03	2014-01-15	Mid-Ebb	Sunny	CS2	11:08:51	7.0	Bottom	3	1	16.69	8.27	33.22	95.4	7.59	6.6	9.3
HKLR	HY/2011/03	2014-01-15	Mid-Ebb	Sunny	CS2	11:07:46	7.0	Bottom	3	2	16.69	8.26	33.36	95.9	7.63	6.7	10.3
HKLR	HY/2011/03	2014-01-15	Mid-Ebb	Sunny	CS(M)F5	13:05:17	1.0	Surface	1	1	16.85	8.06	33.28	97.1	7.7	2.4	5.7
HKLR	HY/2011/03	2014-01-15	Mid-Ebb	Sunny	CS(M)F5	13:05:56	1.0	Surface	1	2	16.84	8.06	33.28	97.1	7.7	2.3	6.5
HKLR	HY/2011/03	2014-01-15	Mid-Ebb	Sunny	CS(M)F5	13:05:41	6.3	Middle	2	1	16.81	8.05	33.29	96.5	7.66	2.5	7.1
HKLR	HY/2011/03	2014-01-15	Mid-Ebb	Sunny	CS(M)F5	13:05:03	6.3	Middle	2	2	16.81	8.05	33.28	96.5	7.65	2.6	6.5
HKLR	HY/2011/03	2014-01-15	Mid-Ebb	Sunny	CS(M)F5	13:05:31	11.5	Bottom	3	1	16.81	8.06	33.28	96.5	7.65	2.5	7.7
HKLR	HY/2011/03	2014-01-15	Mid-Ebb	Sunny	CS(M)F5	13:04:49	11.5	Bottom	3	2	16.81	8.05	33.28	96.4	7.65	2.6	8.2
HKLR	HY/2011/03	2014-01-15	Mid-Flood	Fine	IS5	08:09:48	1.0	Surface	1	1	16.35	8.01	32.4	98.1	7.9	7.7	9.8
HKLR	HY/2011/03	2014-01-15	Mid-Flood	Fine	IS5	08:09:13	1.0	Surface	1	2	16.35	8.01	32.41	98.2	7.9	8	10.5
HKLR	HY/2011/03	2014-01-15	Mid-Flood	Fine	IS5	08:09:03	4.3	Middle	2	1	16.35	8	32.41	97.9	7.88	7.5	10.5
HKLR	HY/2011/03	2014-01-15	Mid-Flood	Fine	IS5	08:09:37	4.3	Middle	2	2	16.35	8.01	32.41	97.8	7.87	7.5	9.9
HKLR	HY/2011/03	2014-01-15	Mid-Flood	Fine	IS5	08:08:54	7.6	Bottom	3	1	16.35	8	32.41	97.9	7.88	7.5	9
HKLR	HY/2011/03	2014-01-15	Mid-Flood	Fine	IS5	08:09:25	7.6	Bottom	3	2	16.36	8.01	32.42	97.7	7.86	7.7	9.5
HKLR	HY/2011/03	2014-01-15	Mid-Flood	Fine	IS(M)F6	08:01:31	1.0	Surface	1	1	16.26	8	32.39	98.3	7.93	12.2	13.2
HKLR	HY/2011/03	2014-01-15	Mid-Flood	Fine	IS(M)F6	08:01:11	1.0	Surface	1	2	16.26	7.99	32.39	98.6	7.95	12.9	14.7
HKLR	HY/2011/03	2014-01-15	Mid-Flood	Fine	IS(M)F6	08:01:00	2.3	Middle	2	1	16.26	7.99	32.4	98.7	7.96	13.8	14.5
HKLR	HY/2011/03	2014-01-15	Mid-Flood	Fine	IS(M)F6	08:01:19	2.3	Bottom	3	2	16.25	7.99	32.4	98.3	7.93	13.4	13.6
HKLR	HY/2011/03	2014-01-15	Mid-Flood	Fine	IS7	07:54:48	1.0	Surface	1	1	16.22	7.99	32.36	98.3	7.93	12.6	14.2
HKLR	HY/2011/03	2014-01-15	Mid-Flood	Fine	IS7	07:55:11	1.0	Surface	1	2	16.19	8	32.35	98.3	7.94	12.4	13.2
HKLR	HY/2011/03	2014-01-15	Mid-Flood	Fine	IS7	07:54:37	2.1	Middle	2	2	16.23	7.99	32.4	98.3	7.93	12.7	18.8
HKLR	HY/2011/03	2014-01-15	Mid-Flood	Fine	IS7	07:54:57	2.1	Bottom	3	1	16.22	7.99	32.36	98.2	7.92	12.7	19.5
HKLR	HY/2011/03	2014-01-15	Mid-Flood	Fine	IS8	07:31:19	1.0	Surface	1	1	16.6	7.99	32.56	96.6	7.73	9.2	9.2
HKLR	HY/2011/03	2014-01-15	Mid-Flood	Fine	IS8	07:30:58	1.0	Surface	1	2	16.61	7.99	32.56	96.8	7.74	9.2	9.5
HKLR	HY/2011/03	2014-01-15	Mid-Flood	Fine	IS8	07:31:07	2.9	Middle	2	1	16.61	7.99	32.56	96.7	7.74	9.4	9.3
HKLR	HY/2011/03	2014-01-15	Mid-Flood	Fine	IS8	07:30:43	2.9	Bottom	3	2	16.61	7.98	32.57	96.8	7.75	9.6	10.2
HKLR	HY/2011/03	2014-01-15	Mid-Flood	Fine	IS(M)F9	07:48:23	1.0	Surface	1	1	16.5	7.99	32.46	97.4	7.82	20.6	22.8
HKLR	HY/2011/03	2014-01-15	Mid-Flood	Fine	IS(M)F9	07:48:41	1.0	Surface	1	2	16.51	7.99	32.46	97.2	7.8	20.1	23.2
HKLR	HY/2011/03	2014-01-15	Mid-Flood	Fine	IS(M)F9	07:48:06	2.7	Middle	2	1	16.5	7.98	32.46	97.5	7.82	21.1	22.3
HKLR	HY/2011/03	2014-01-15	Mid-Flood	Fine	IS(M)F9	07:48:31	2.7	Bottom	3	2	16.51	7.99	32.46	97.2	7.8	20.5	23.8
HKLR	HY/2011/03	2014-01-15	Mid-Flood	Fine	IS10	07:23:56	1.0	Surface	1	1	16.61	8.19	33.1	95.1	7.59	13.1	22
HKLR	HY/2011/03	2014-01-15	Mid-Flood	Fine	IS10	07:22:42	1.0	Surface	1	2	16.61	8.18	33.12	95.3	7.6	13.2	22.6
HKLR	HY/2011/03	2014-01-15	Mid-Flood	Fine	IS10	07:23:16	5.6	Middle	2	1	16.59	8.18	33.12	94.9	7.58	13.4	22.1
HKLR	HY/2011/03	2014-01-15	Mid-Flood	Fine	IS10	07:22:35	5.6	Middle	2	2	16.59	8.18	33.13	95.3	7.6	13.5	22.9
HKLR	HY/2011/03	2014-01-15	Mid-Flood	Fine	IS10	07:23:04	10.2	Bottom	3	1	16.55	8.18	33.17	94.7	7.55	13.7	23.5
HKLR	HY/2011/03	2014-01-15	Mid-Flood	Fine	IS10	07:22:24	10.2	Bottom	3	2	16.57	8.19	33.15	95.2	7.59	13.6	23.1
HKLR	HY/2011/03	2014-01-15	Mid-Flood	Fine	SR3	08:18:31	0.7	Surface	1	1	16.35	8.02	32.4	98.3	7.91	7.3	10.9
HKLR	HY/2011/03	2014-01-15	Mid-Flood	Fine	SR3	08:18:38	0.7	Middle	2	1	16.35	8.02	32.4	98.1	7.9	7.4	10.3
HKLR	HY/2011/03	2014-01-15	Mid-Flood	Fine	SR3	08:18:38	0.7	Middle	2	2	16.35	8.02	32.4	98.1	7.9	7.4	10.3

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HCLR	HY/2011/03		Mid-Flood		SR3			Bottom	3	1							
HCLR	HY/2011/03		Mid-Flood		SR3			Bottom	3	2							
HCLR	HY/2011/03	2014-01-15	Mid-Flood	Fine	SR4	07:38:24	1.0	Surface	1	1	16.58	7.98	32.45	96.5	7.73	6.3	10.8
HCLR	HY/2011/03	2014-01-15	Mid-Flood	Fine	SR4	07:38:06	1.0	Surface	1	2	16.59	7.98	32.44	98.1	7.86	6.2	10.9
HCLR	HY/2011/03		Mid-Flood		SR4			Middle	2	1							
HCLR	HY/2011/03		Mid-Flood		SR4			Middle	2	2							
HCLR	HY/2011/03	2014-01-15	Mid-Flood	Fine	SR4	07:38:14	2.7	Bottom	3	1	16.59	7.98	32.45	97.2	7.79	6.3	11.6
HCLR	HY/2011/03	2014-01-15	Mid-Flood	Fine	SR4	07:37:54	2.7	Bottom	3	2	16.57	7.99	32.46	100.1	8.02	6.3	12.4
HCLR	HY/2011/03	2014-01-15	Mid-Flood	Fine	SR5	07:28:06	1.0	Surface	1	1	16.6	8.18	33.1	94.6	7.55	14.5	18.5
HCLR	HY/2011/03	2014-01-15	Mid-Flood	Fine	SR5	07:27:42	1.0	Surface	1	2	16.61	8.18	33.09	94.6	7.54	14.2	17.4
HCLR	HY/2011/03		Mid-Flood		SR5			Middle	2	1							
HCLR	HY/2011/03		Mid-Flood		SR5			Middle	2	2							
HCLR	HY/2011/03	2014-01-15	Mid-Flood	Fine	SR5	07:27:58	3.8	Bottom	3	1	16.6	8.18	33.11	94.5	7.53	14.6	17.6
HCLR	HY/2011/03	2014-01-15	Mid-Flood	Fine	SR5	07:27:20	3.8	Bottom	3	2	16.62	8.19	33.12	94.5	7.53	14.3	17.4
HCLR	HY/2011/03	2014-01-15	Mid-Flood	Fine	SR10A	06:34:34	1.0	Surface	1	1	16.76	8.04	33.37	96.2	7.64	2.3	4.4
HCLR	HY/2011/03	2014-01-15	Mid-Flood	Fine	SR10A	06:35:04	1.0	Surface	1	2	16.77	8.05	33.37	95.9	7.61	2.2	4.8
HCLR	HY/2011/03	2014-01-15	Mid-Flood	Fine	SR10A	06:34:24	3.4	Middle	2	1	16.76	8.04	33.38	96.2	7.64	2.5	6.2
HCLR	HY/2011/03	2014-01-15	Mid-Flood	Fine	SR10A	06:34:55	3.4	Middle	2	2	16.77	8.04	33.37	95.8	7.61	2.4	7.2
HCLR	HY/2011/03	2014-01-15	Mid-Flood	Fine	SR10A	06:34:15	5.7	Bottom	3	1	16.75	8.04	33.38	96.3	7.64	2.5	6
HCLR	HY/2011/03	2014-01-15	Mid-Flood	Fine	SR10A	06:34:45	5.7	Bottom	3	2	16.77	8.04	33.37	95.8	7.6	2.4	6.3
HCLR	HY/2011/03	2014-01-15	Mid-Flood	Fine	SR10B	06:28:40	1.0	Surface	1	1	16.76	8.05	33.39	96.9	7.69	5.1	6.8
HCLR	HY/2011/03	2014-01-15	Mid-Flood	Fine	SR10B	06:28:19	1.0	Surface	1	2	16.75	8.04	33.39	97.2	7.71	5.1	6
HCLR	HY/2011/03		Mid-Flood		SR10B			Middle	2	1							
HCLR	HY/2011/03		Mid-Flood		SR10B			Middle	2	2							
HCLR	HY/2011/03	2014-01-15	Mid-Flood	Fine	SR10B	06:28:10	4.0	Bottom	3	1	16.76	8.03	33.4	97.3	7.72	5.4	7.4
HCLR	HY/2011/03	2014-01-15	Mid-Flood	Fine	SR10B	06:28:30	4.0	Bottom	3	2	16.76	8.04	33.4	96.8	7.69	5.2	6.1
HCLR	HY/2011/03	2014-01-15	Mid-Flood	Fine	CS2	08:33:54	1.0	Surface	1	1	16.51	8.18	33.13	95	7.59	15.2	20.7
HCLR	HY/2011/03	2014-01-15	Mid-Flood	Fine	CS2	08:34:14	1.0	Surface	1	2	16.5	8.19	33.13	95	7.59	15.1	21.1
HCLR	HY/2011/03	2014-01-15	Mid-Flood	Fine	CS2	08:33:46	4.1	Middle	2	1	16.51	8.19	33.15	94.8	7.57	15.3	20.4
HCLR	HY/2011/03	2014-01-15	Mid-Flood	Fine	CS2	08:34:07	4.1	Middle	2	2	16.51	8.19	33.15	95	7.59	15.3	20.6
HCLR	HY/2011/03	2014-01-15	Mid-Flood	Fine	CS2	08:33:39	7.1	Bottom	3	1	16.51	8.19	33.16	94.8	7.57	15.3	23.5
HCLR	HY/2011/03	2014-01-15	Mid-Flood	Fine	CS2	08:34:00	7.1	Bottom	3	2	16.5	8.18	33.14	94.9	7.58	15.6	21.6
HCLR	HY/2011/03	2014-01-15	Mid-Flood	Fine	CS(M)F5	07:02:57	1.0	Surface	1	1	16.72	8	33.15	94.7	7.53	8.1	10
HCLR	HY/2011/03	2014-01-15	Mid-Flood	Fine	CS(M)F5	07:03:38	1.0	Surface	1	2	16.73	8.02	33.14	94.8	7.54	8.1	9.9
HCLR	HY/2011/03	2014-01-15	Mid-Flood	Fine	CS(M)F5	07:02:45	6.2	Middle	2	1	16.76	8.02	33.16	94.3	7.49	8.3	10
HCLR	HY/2011/03	2014-01-15	Mid-Flood	Fine	CS(M)F5	07:03:22	6.2	Middle	2	2	16.77	8.01	33.16	94.2	7.49	8.4	10.5
HCLR	HY/2011/03	2014-01-15	Mid-Flood	Fine	CS(M)F5	07:03:13	11.3	Bottom	3	1	16.78	8	33.17	94.3	7.49	8.4	11
HCLR	HY/2011/03	2014-01-15	Mid-Flood	Fine	CS(M)F5	07:02:36	11.3	Bottom	3	2	16.78	8	33.18	94.4	7.5	8.4	9.7
HCLR	HY/2011/03	2014-01-17	Mid-Ebb	Sunny	IS5	12:27:49	1.0	Surface	1	1	16.44	8.02	32.77	102.4	8.21	8	5.6
HCLR	HY/2011/03	2014-01-17	Mid-Ebb	Sunny	IS5	12:27:22	1.0	Surface	1	2	16.44	8.02	32.77	102.4	8.21	8	4.6
HCLR	HY/2011/03	2014-01-17	Mid-Ebb	Sunny	IS5	12:27:42	4.6	Middle	2	1	16.43	8.02	32.79	102.3	8.2	8.4	5.7
HCLR	HY/2011/03	2014-01-17	Mid-Ebb	Sunny	IS5	12:27:14	4.6	Middle	2	2	16.43	8.01	32.81	102.2	8.2	8.4	5.8
HCLR	HY/2011/03	2014-01-17	Mid-Ebb	Sunny	IS5	12:27:08	8.2	Bottom	3	1	16.44	8.01	32.81	102.1	8.19	8.5	5.4
HCLR	HY/2011/03	2014-01-17	Mid-Ebb	Sunny	IS5	12:27:34	8.2	Bottom	3	2	16.43	8.02	32.8	102.1	8.19	8.6	6
HCLR	HY/2011/03	2014-01-17	Mid-Ebb	Sunny	IS(M)F6	12:33:52	1.0	Surface	1	1	16.61	8.03	32.72	103.7	8.29	10.9	4.2
HCLR	HY/2011/03	2014-01-17	Mid-Ebb	Sunny	IS(M)F6	12:33:10	1.0	Surface	1	2	16.54	8.03	32.76	103	8.25	10.8	5
HCLR	HY/2011/03		Mid-Ebb		IS(M)F6			Middle	2	1							
HCLR	HY/2011/03		Mid-Ebb		IS(M)F6			Middle	2	2							
HCLR	HY/2011/03	2014-01-17	Mid-Ebb	Sunny	IS(M)F6	12:33:22	2.4	Bottom	3	1	16.55	8.03	32.75	103.1	8.25	11	4.3
HCLR	HY/2011/03	2014-01-17	Mid-Ebb	Sunny	IS(M)F6	12:33:05	2.4	Bottom	3	2	16.53	8.03	32.74	102.8	8.23	10.8	5
HCLR	HY/2011/03	2014-01-17	Mid-Ebb	Sunny	IS7	12:39:20	1.0	Surface	1	1	16.73	8.05	32.7	105.6	8.42	14.5	6.3
HCLR	HY/2011/03	2014-01-17	Mid-Ebb	Sunny	IS7	12:39:04	1.0	Surface	1	2	16.71	8.05	32.72	105	8.37	14.2	6
HCLR	HY/2011/03		Mid-Ebb		IS7			Middle	2	1							
HCLR	HY/2011/03		Mid-Ebb		IS7			Middle	2	2							
HCLR	HY/2011/03	2014-01-17	Mid-Ebb	Sunny	IS7	12:39:00	2.4	Bottom	3	1	16.77	8.05	32.69	104.7	8.35	14.6	7.4
HCLR	HY/2011/03	2014-01-17	Mid-Ebb	Sunny	IS7	12:39:09	2.4	Bottom	3	2	16.73	8.05	32.7	105.2	8.39	14.7	6.2
HCLR	HY/2011/03	2014-01-17	Mid-Ebb	Sunny	IS8	13:00:49	1.0	Surface	1	1	16.73	8.07	32.73	105.6	8.42	6.6	4.4
HCLR	HY/2011/03	2014-01-17	Mid-Ebb	Sunny	IS8	13:00:35	1.0	Surface	1	2	16.76	8.07	32.72	105.5	8.41	6.9	4.4
HCLR	HY/2011/03		Mid-Ebb		IS8			Middle	2	1							
HCLR	HY/2011/03		Mid-Ebb		IS8			Middle	2	2							
HCLR	HY/2011/03	2014-01-17	Mid-Ebb	Sunny	IS8	13:00:26	2.4	Bottom	3	1	16.71	8.07	32.73	105	8.38	6.9	4.6
HCLR	HY/2011/03	2014-01-17	Mid-Ebb	Sunny	IS8	13:00:38	2.4	Bottom	3	2	16.78	8.07	32.7	105.5	8.41	6.6	3.3

Water Quarterly Monitoring Data

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2014-01-17	Mid-Ebb	Sunny	IS(M)/9	12:45:33	1.0	Surface	1	1	16.93	8.05	32.65	104.9	8.34	14.2	9.6
HKLR	HY/2011/03	2014-01-17	Mid-Ebb	Sunny	IS(M)/9	12:45:15	1.0	Surface	1	2	16.86	8.05	32.67	104.5	8.31	14.1	9.1
HKLR	HY/2011/03		Mid-Ebb		IS(M)/9			Middle	2								
HKLR	HY/2011/03		Mid-Ebb		IS(M)/9			Middle	2								
HKLR	HY/2011/03	2014-01-17	Mid-Ebb	Sunny	IS(M)/9	12:45:19	2.5	Bottom	3	1	16.89	8.05	32.64	104.4	8.3	14.5	11.1
HKLR	HY/2011/03	2014-01-17	Mid-Ebb	Sunny	IS(M)/9	12:45:03	2.5	Bottom	3	2	16.8	8.05	32.66	103.8	8.27	14.8	10.4
HKLR	HY/2011/03	2014-01-17	Mid-Ebb	Sunny	IS10	13:43:57	1.0	Surface	1	1	16.78	8.3	32.45	98.4	7.85	4.4	3.2
HKLR	HY/2011/03	2014-01-17	Mid-Ebb	Sunny	IS10	13:43:20	1.0	Surface	1		16.77	8.3	32.47	98.4	7.85	4.7	3.7
HKLR	HY/2011/03	2014-01-17	Mid-Ebb	Sunny	IS10	13:43:09	5.3	Middle	2	1	16.75	8.31	32.62	98.2	7.83	4.7	3.2
HKLR	HY/2011/03	2014-01-17	Mid-Ebb	Sunny	IS10	13:43:44	2	Middle	2	2	16.75	8.31	32.59	98.1	7.83	4.5	3.2
HKLR	HY/2011/03	2014-01-17	Mid-Ebb	Sunny	IS10	13:43:00	9.6	Bottom	3	1	16.75	8.31	32.66	97.9	7.81	4.8	2.9
HKLR	HY/2011/03	2014-01-17	Mid-Ebb	Sunny	IS10	13:43:35	9.6	Bottom	3	2	16.75	8.31	32.65	97.8	7.8	4.8	3.6
HKLR	HY/2011/03		Mid-Ebb		SR3			Surface	1	1							
HKLR	HY/2011/03		Mid-Ebb		SR3			Surface	1	2							
HKLR	HY/2011/03	2014-01-17	Mid-Ebb	Sunny	SR3	12:20:43	0.8	Middle	2	1	16.46	8.01	32.84	103	8.26	8.2	5.4
HKLR	HY/2011/03	2014-01-17	Mid-Ebb	Sunny	SR3	12:20:40	0.8	Middle	2	2	16.46	8.01	32.84	103	8.25	8.3	4.8
HKLR	HY/2011/03		Mid-Ebb		SR3			Bottom	3								
HKLR	HY/2011/03		Mid-Ebb		SR3			Bottom	3	2							
HKLR	HY/2011/03	2014-01-17	Mid-Ebb	Sunny	SR4	12:55:18	1.0	Surface	1	1	16.63	8.05	32.69	102.5	8.19	7.8	6
HKLR	HY/2011/03	2014-01-17	Mid-Ebb	Sunny	SR4	12:55:35	1.0	Surface	1	2	16.64	8.05	32.69	102.9	8.22	8.1	5.3
HKLR	HY/2011/03		Mid-Ebb		SR4			Middle	2	1							
HKLR	HY/2011/03		Mid-Ebb		SR4			Middle	2	2							
HKLR	HY/2011/03	2014-01-17	Mid-Ebb	Sunny	SR4	12:55:12	2.3	Bottom	3	1	16.63	8.05	32.69	102.4	8.18	7.8	6.2
HKLR	HY/2011/03	2014-01-17	Mid-Ebb	Sunny	SR4	12:55:24	2.3	Bottom	3	2	16.63	8.05	32.7	102.6	8.2	8.3	6.6
HKLR	HY/2011/03	2014-01-17	Mid-Ebb	Sunny	SR5	13:32:51	1.0	Surface	1	1	16.77	8.3	32.47	98.3	7.84	4.5	5.2
HKLR	HY/2011/03	2014-01-17	Mid-Ebb	Sunny	SR5	13:33:10	1.0	Surface	1	2	16.77	8.3	32.46	98.2	7.84	4.8	3.5
HKLR	HY/2011/03		Mid-Ebb		SR5			Middle	2	1							
HKLR	HY/2011/03		Mid-Ebb		SR5			Middle	2	2							
HKLR	HY/2011/03	2014-01-17	Mid-Ebb	Sunny	SR5	13:32:42	3.6	Bottom	3	1	16.75	8.3	32.55	98	7.82	4.7	3.4
HKLR	HY/2011/03	2014-01-17	Mid-Ebb	Sunny	SR5	13:33:00	3.6	Bottom	3	2	16.75	8.3	32.53	98.1	7.83	4.6	2.9
HKLR	HY/2011/03		Mid-Ebb		SR5			Bottom	3								
HKLR	HY/2011/03		Mid-Ebb		SR5			Bottom	3	2							
HKLR	HY/2011/03	2014-01-17	Mid-Ebb	Sunny	SR10A	13:58:32	1.0	Surface	1	1	16.72	8.06	33.09	98.4	7.83	2.3	2.2
HKLR	HY/2011/03	2014-01-17	Mid-Ebb	Sunny	SR10A	13:58:55	1.0	Surface	1	2	16.72	8.06	33.1	98.2	7.82	2.4	2.3
HKLR	HY/2011/03	2014-01-17	Mid-Ebb	Sunny	SR10A	13:58:47	3.2	Middle	2	1	16.72	8.06	33.13	98.1	7.8	2.6	3
HKLR	HY/2011/03	2014-01-17	Mid-Ebb	Sunny	SR10A	13:58:21	3.2	Middle	2	2	16.7	8.06	33.13	98.2	7.82	2.3	2.9
HKLR	HY/2011/03	2014-01-17	Mid-Ebb	Sunny	SR10A	13:58:43	5.4	Bottom	3	1	16.72	8.06	33.12	98	7.8	2.6	2
HKLR	HY/2011/03	2014-01-17	Mid-Ebb	Sunny	SR10A	13:58:16	5.4	Bottom	3	2	16.7	8.06	33.12	98.2	7.82	2.3	2.1
HKLR	HY/2011/03	2014-01-17	Mid-Ebb	Sunny	SR10B	14:06:00	1.0	Surface	1	1	16.86	8.06	33.11	99.1	7.87	1.7	2.6
HKLR	HY/2011/03	2014-01-17	Mid-Ebb	Sunny	SR10B	14:06:11	1.0	Surface	1	2	16.82	8.06	33.11	99.1	7.87	1.8	2.9
HKLR	HY/2011/03		Mid-Ebb		SR10B			Middle	2	1							
HKLR	HY/2011/03		Mid-Ebb		SR10B			Middle	2	2							
HKLR	HY/2011/03	2014-01-17	Mid-Ebb	Sunny	SR10B	14:05:52	3.6	Bottom	3	1	16.82	8.06	33.12	98.9	7.85	1.7	3.2
HKLR	HY/2011/03	2014-01-17	Mid-Ebb	Sunny	SR10B	14:06:04	3.6	Bottom	3	2	16.86	8.06	33.09	99.1	7.86	1.8	5.1
HKLR	HY/2011/03	2014-01-17	Mid-Ebb	Sunny	CS2	12:06:16	1.0	Surface	1	1	16.57	8.35	33.08	98.8	7.88	7.2	6
HKLR	HY/2011/03	2014-01-17	Mid-Ebb	Sunny	CS2	12:06:47	1.0	Surface	1	2	16.57	8.35	32.97	98.6	7.88	7	6.3
HKLR	HY/2011/03	2014-01-17	Mid-Ebb	Sunny	CS2	12:06:06	4.2	Middle	2	1	16.52	8.36	33.11	98.4	7.86	7.5	4.8
HKLR	HY/2011/03	2014-01-17	Mid-Ebb	Sunny	CS2	12:06:37	4.2	Middle	2	2	16.49	8.35	32.99	98.2	7.86	7.2	4.5
HKLR	HY/2011/03	2014-01-17	Mid-Ebb	Sunny	CS2	12:05:44	7.4	Bottom	3	1	16.47	8.37	33.22	98.4	7.86	7.7	4.7
HKLR	HY/2011/03	2014-01-17	Mid-Ebb	Sunny	CS2	12:06:27	7.4	Bottom	3	2	16.52	8.35	33	98.4	7.87	7.4	4.9
HKLR	HY/2011/03	2014-01-17	Mid-Ebb	Sunny	CS(M)/5	13:30:09	1.0	Surface	1	1	16.87	8.07	33.09	99.9	7.93	5.5	3.2
HKLR	HY/2011/03	2014-01-17	Mid-Ebb	Sunny	CS(M)/5	13:30:53	1.0	Surface	1	2	16.85	8.07	33.1	99.2	7.87	5.3	3
HKLR	HY/2011/03	2014-01-17	Mid-Ebb	Sunny	CS(M)/5	13:30:46	6.5	Middle	2	1	16.75	8.06	33.16	98.4	7.83	5.6	2.7
HKLR	HY/2011/03	2014-01-17	Mid-Ebb	Sunny	CS(M)/5	13:30:01	6.5	Middle	2	2	16.77	8.06	33.15	99.4	7.9	5.6	2.4
HKLR	HY/2011/03	2014-01-17	Mid-Ebb	Sunny	CS(M)/5	13:30:37	12.0	Bottom	3	1	16.69	8.06	33.17	98.3	7.82	5.8	3.1
HKLR	HY/2011/03	2014-01-17	Mid-Ebb	Sunny	CS(M)/5	13:29:51	12.0	Bottom	3	2	16.79	8.06	33.12	98.2	7.89	5.9	2.4
HKLR	HY/2011/03	2014-01-17	Mid-Flood	Sunny	ISS	08:32:15	1.0	Surface	1	1	16.32	8.07	32.92	101	8.11	11	4.3
HKLR	HY/2011/03	2014-01-17	Mid-Flood	Sunny	ISS	08:32:53	1.0	Surface	1	2	16.32	8.07	32.9	100.9	8.1	11.5	5.2
HKLR	HY/2011/03	2014-01-17	Mid-Flood	Sunny	ISS	08:32:10	4.6	Middle	2	1	16.33	8.08	32.94	100.8	8.09	11.6	6.3
HKLR	HY/2011/03	2014-01-17	Mid-Flood	Sunny	ISS	08:32:45	4.6	Middle	2	2	16.33	8.08	32.94	100.7	8.08	11.8	6.6
HKLR	HY/2011/03	2014-01-17	Mid-Flood	Sunny	ISS	08:32:37	8.1	Bottom	3	1	16.34	8.08	32.95	100.6	8.07	11.8	5.6
HKLR	HY/2011/03	2014-01-17	Mid-Flood	Sunny	ISS	08:32:02	8.1	Bottom	3	2	16.33	8.07	32.94	100.7	8.08	11.7	6.6
HKLR	HY/2011/03	2014-01-17	Mid-Flood	Sunny	IS(M)/6	08:24:36	1.0	Surface	1	1	16.37	8.06	32.98	100.7	8.07	14.3	5.1
HKLR	HY/2011/03	2014-01-17	Mid-Flood	Sunny	IS(M)/6	08:24:01	1.0	Surface	1	2	16.35	8.06	33.01	101.3	8.12	14.2	5.2

Water Quarterly Monitoring Data

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HLR	HY/2011/03		Mid-Flood		IS(M)F6			Middle	2	1							
HLR	HY/2011/03		Mid-Flood		IS(M)F6			Middle	2	2							
HLR	HY/2011/03	2014-01-17	Mid-Flood	Sunny	IS(M)F6	08:23:56	2.4	Bottom	3	1	16.35	8.06	33.01	101	8.1	14.6	5.5
HLR	HY/2011/03	2014-01-17	Mid-Flood	Sunny	IS(M)F6	08:24:10	2.4	Bottom	3	2	16.35	8.06	33.01	100.6	8.07	14.4	4.9
HLR	HY/2011/03	2014-01-17	Mid-Flood	Sunny	IS7	08:18:01	1.0	Surface	1	1	16.41	8.06	32.92	101.1	8.1	12.4	7.1
HLR	HY/2011/03	2014-01-17	Mid-Flood	Sunny	IS7	08:17:43	1.0	Surface	1	2	16.41	8.06	32.94	101.5	8.14	12.5	8
HLR	HY/2011/03		Mid-Flood		IS7			Middle	2	2							
HLR	HY/2011/03		Mid-Flood		IS7			Middle	2	2							
HLR	HY/2011/03	2014-01-17	Mid-Flood	Sunny	IS7	08:17:47	2.3	Bottom	3	1	16.41	8.06	32.94	100.9	8.09	12.6	8.4
HLR	HY/2011/03	2014-01-17	Mid-Flood	Sunny	IS7	08:17:39	2.3	Bottom	3	2	16.41	8.06	32.94	101.3	8.12	12.7	6.7
HLR	HY/2011/03	2014-01-17	Mid-Flood	Sunny	IS8	07:55:23	1.0	Surface	1	1	16.42	8.06	32.89	100.6	8.06	8.8	3.8
HLR	HY/2011/03	2014-01-17	Mid-Flood	Sunny	IS8	07:55:01	1.0	Surface	1	2	16.44	8.05	32.89	100.9	8.08	9	3.7
HLR	HY/2011/03		Mid-Flood		IS8			Middle	2	1							
HLR	HY/2011/03		Mid-Flood		IS8			Middle	2	2							
HLR	HY/2011/03	2014-01-17	Mid-Flood	Sunny	IS8	07:54:57	2.4	Bottom	3	1	16.44	8.05	32.89	100.8	8.08	9	3.3
HLR	HY/2011/03	2014-01-17	Mid-Flood	Sunny	IS8	07:55:06	2.4	Bottom	3	2	16.44	8.05	32.89	100.6	8.06	9	3.3
HLR	HY/2011/03	2014-01-17	Mid-Flood	Sunny	IS(M)F9	08:12:17	1.0	Surface	1	1	16.44	8.06	32.84	100.8	8.08	24.4	10.5
HLR	HY/2011/03	2014-01-17	Mid-Flood	Sunny	IS(M)F9	08:12:51	1.0	Surface	1	2	16.43	8.06	32.82	100.7	8.07	23	9.1
HLR	HY/2011/03		Mid-Flood		IS(M)F9			Middle	2	1							
HLR	HY/2011/03		Mid-Flood		IS(M)F9			Middle	2	2							
HLR	HY/2011/03	2014-01-17	Mid-Flood	Sunny	IS(M)F9	08:12:32	2.5	Bottom	3	1	16.44	8.06	32.87	100.4	8.04	23.4	16.1
HLR	HY/2011/03	2014-01-17	Mid-Flood	Sunny	IS(M)F9	08:12:13	2.5	Bottom	3	2	16.43	8.06	32.84	100.7	8.07	25.1	14.6
HLR	HY/2011/03	2014-01-17	Mid-Flood	Sunny	IS10	08:30:37	1.0	Surface	1	1	16.49	8.3	32.74	97.6	7.82	10.1	6.3
HLR	HY/2011/03	2014-01-17	Mid-Flood	Sunny	IS10	08:31:22	1.0	Surface	1	2	16.49	8.3	32.74	97.5	7.81	10.4	5.7
HLR	HY/2011/03	2014-01-17	Mid-Flood	Sunny	IS10	08:30:20	5.4	Middle	2	1	16.47	8.3	32.77	97.3	7.79	10.8	6
HLR	HY/2011/03	2014-01-17	Mid-Flood	Sunny	IS10	08:31:05	5.4	Middle	2	2	16.47	8.3	32.77	97.2	7.79	10.5	4.3
HLR	HY/2011/03	2014-01-17	Mid-Flood	Sunny	IS10	08:30:52	9.8	Bottom	3	1	16.47	8.3	32.77	97	7.77	11.6	5.2
HLR	HY/2011/03	2014-01-17	Mid-Flood	Sunny	IS10	08:30:07	9.8	Bottom	3	2	16.48	8.3	32.77	97.2	7.79	11.5	6.7
HLR	HY/2011/03		Mid-Flood		SR3			Surface	1	1							
HLR	HY/2011/03		Mid-Flood		SR3			Surface	1	2							
HLR	HY/2011/03	2014-01-17	Mid-Flood	Sunny	SR3	08:39:42	0.7	Middle	2	1	16.32	8.06	32.89	100.9	8.1	12.2	7.2
HLR	HY/2011/03	2014-01-17	Mid-Flood	Sunny	SR3	08:39:45	0.7	Middle	2	2	16.32	8.06	32.89	100.9	8.11	11.9	5.9
HLR	HY/2011/03		Mid-Flood		SR3			Bottom	3	1							
HLR	HY/2011/03		Mid-Flood		SR3			Bottom	3	2							
HLR	HY/2011/03	2014-01-17	Mid-Flood	Sunny	SR4	08:01:06	1.0	Surface	1	1	16.35	8.05	32.8	100	8.03	11.9	4
HLR	HY/2011/03	2014-01-17	Mid-Flood	Sunny	SR4	08:01:30	1.0	Surface	1	2	16.35	8.05	32.8	99.8	8.02	11.7	4.7
HLR	HY/2011/03		Mid-Flood		SR4			Middle	2	1							
HLR	HY/2011/03		Mid-Flood		SR4			Middle	2	2							
HLR	HY/2011/03	2014-01-17	Mid-Flood	Sunny	SR4	08:01:10	2.4	Bottom	3	1	16.35	8.05	32.8	99.7	8.01	11.8	5.1
HLR	HY/2011/03	2014-01-17	Mid-Flood	Sunny	SR4	08:01:01	2.4	Bottom	3	2	16.35	8.05	32.8	99.8	8.02	11.9	5.1
HLR	HY/2011/03	2014-01-17	Mid-Flood	Sunny	SR5	08:39:05	1.0	Surface	1	1	16.49	8.3	32.74	97.5	7.81	8.4	6.8
HLR	HY/2011/03	2014-01-17	Mid-Flood	Sunny	SR5	08:39:24	1.0	Surface	1	2	16.49	8.3	32.74	97.5	7.81	8.4	4.8
HLR	HY/2011/03		Mid-Flood		SR5			Middle	2	1							
HLR	HY/2011/03		Mid-Flood		SR5			Middle	2	2							
HLR	HY/2011/03	2014-01-17	Mid-Flood	Sunny	SR5	08:39:13	3.7	Bottom	3	1	16.48	8.3	32.75	97.4	7.8	8.6	6.5
HLR	HY/2011/03	2014-01-17	Mid-Flood	Sunny	SR5	08:38:53	3.7	Bottom	3	2	16.48	8.3	32.75	97.3	7.8	8.3	7
HLR	HY/2011/03	2014-01-17	Mid-Flood	Sunny	SR10A	06:57:27	1.0	Surface	1	1	16.65	8.02	33.12	98.4	7.84	5.6	6.1
HLR	HY/2011/03	2014-01-17	Mid-Flood	Sunny	SR10A	06:56:45	1.0	Surface	1	2	16.65	8.02	33.12	98.4	7.84	5.6	6.6
HLR	HY/2011/03	2014-01-17	Mid-Flood	Sunny	SR10A	06:57:19	3	Middle	2	1	16.65	8.02	33.13	97.7	7.78	5.7	7.1
HLR	HY/2011/03	2014-01-17	Mid-Flood	Sunny	SR10A	06:56:41	3	Middle	2	2	16.65	8.02	33.12	98.2	7.83	5.7	6.4
HLR	HY/2011/03	2014-01-17	Mid-Flood	Sunny	SR10A	06:57:08	5	Bottom	3	1	16.65	8.03	33.13	97.6	7.78	5.7	6.8
HLR	HY/2011/03	2014-01-17	Mid-Flood	Sunny	SR10A	06:56:32	5	Bottom	3	2	16.65	8.01	33.12	98.1	7.82	5.9	5.8
HLR	HY/2011/03	2014-01-17	Mid-Flood	Sunny	SR10B	06:51:16	1.0	Surface	1	1	16.63	7.98	33.02	99	7.89	5.6	6.5
HLR	HY/2011/03	2014-01-17	Mid-Flood	Sunny	SR10B	06:51:28	1.0	Surface	1	2	16.63	7.99	33.04	98.5	7.85	5.8	6.6
HLR	HY/2011/03		Mid-Flood		SR10B			Middle	2	1							
HLR	HY/2011/03		Mid-Flood		SR10B			Middle	2	2							
HLR	HY/2011/03	2014-01-17	Mid-Flood	Sunny	SR10B	06:51:21	4.3	Bottom	3	1	16.63	7.98	33.03	98.3	7.84	5.9	5.4
HLR	HY/2011/03	2014-01-17	Mid-Flood	Sunny	SR10B	06:51:08	4.3	Bottom	3	2	16.64	7.98	33	98.7	7.83	5.9	5.3
HLR	HY/2011/03	2014-01-17	Mid-Flood	Sunny	CS2	10:02:52	1.0	Surface	1	1	16.43	8.3	32.75	97.7	7.87	11.3	9.3
HLR	HY/2011/03	2014-01-17	Mid-Flood	Sunny	CS2	10:02:06	1.0	Surface	1	2	16.43	8.3	32.75	97.7	7.84	11.5	8.9
HLR	HY/2011/03	2014-01-17	Mid-Flood	Sunny	CS2	10:02:36	4.3	Middle	2	1	16.43	8.3	32.76	97.4	7.81	12.3	8.4
HLR	HY/2011/03	2014-01-17	Mid-Flood	Sunny	CS2	10:01:54	4.3	Middle	2	2	16.43	8.3	32.76	97.3	7.81	12.2	7.8

Water Quarterly Monitoring Data

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L	
HKLR	HY/2011/03	2014-01-17	Mid-Flood	Sunny	CS2	10:01:36	7.5	Bottom	3	1	16.43	8.3	32.76	97.1	7.79	12.3	9.4	
HKLR	HY/2011/03	2014-01-17	Mid-Flood	Sunny	CS2	10:02:20	7.5	Bottom	3	2	16.43	8.3	32.76	97.3	7.81	12.5	10	
HKLR	HY/2011/03	2014-01-17	Mid-Flood	Sunny	CS1(M/F)5	07:25:01	1.0	Surface	1	1	16.65	8.05	33.08	99.2	7.91	12.3	5.2	
HKLR	HY/2011/03	2014-01-17	Mid-Flood	Sunny	CS1(M/F)5	07:24:26	1.0	Surface	1	2	16.65	8.05	33.08	99.3	7.92	12.2	6.1	
HKLR	HY/2011/03	2014-01-17	Mid-Flood	Sunny	CS1(M/F)5	07:24:09	6.8	Middle	2	1	16.65	8.05	33.09	98.7	7.87	12.2	6.7	
HKLR	HY/2011/03	2014-01-17	Mid-Flood	Sunny	CS1(M/F)5	07:24:49	6.8	Middle	2	2	16.65	8.05	33.09	98.8	7.87	12.5	7.4	
HKLR	HY/2011/03	2014-01-17	Mid-Flood	Sunny	CS1(M/F)5	07:24:02	12.5	Bottom	3	1	16.65	8.05	33.09	98.6	7.86	12.5	6.6	
HKLR	HY/2011/03	2014-01-17	Mid-Flood	Sunny	CS1(M/F)5	07:24:37	12.5	Bottom	3	2	16.65	8.05	33.08	98.7	7.87	12.8	7.1	
HKLR	HY/2011/03	2014-01-20	Mid-Ebb	Sunny	IS5	14:16:27	1.0	Surface	1	1	16.57	7.98	32.59	105.8	8.47	4.8	5.2	
HKLR	HY/2011/03	2014-01-20	Mid-Ebb	Sunny	IS5	14:16:56	1.0	Surface	1	2	16.56	7.98	32.56	105.5	8.45	4.8	6.4	
HKLR	HY/2011/03	2014-01-20	Mid-Ebb	Sunny	IS5	14:16:47	4.4	Middle	2	1	16.51	7.98	32.61	105.4	8.45	4.7	6.3	
HKLR	HY/2011/03	2014-01-20	Mid-Ebb	Sunny	IS5	14:16:18	4.4	Middle	2	2	16.52	7.97	32.63	105.6	8.46	4.8	5.5	
HKLR	HY/2011/03	2014-01-20	Mid-Ebb	Sunny	IS5	14:16:37	7.7	Bottom	3	1	16.53	7.98	32.61	105.6	8.46	4.8	6.8	
HKLR	HY/2011/03	2014-01-20	Mid-Ebb	Sunny	IS5	14:16:07	7.7	Bottom	3	2	16.54	7.97	32.61	105.9	8.48	4.7	7	
HKLR	HY/2011/03	2014-01-20	Mid-Ebb	Sunny	IS1(M/F)6	14:24:07	1.0	Surface	1	1	16.69	8	32.51	107.2	8.56	8.6	5.7	
HKLR	HY/2011/03	2014-01-20	Mid-Ebb	Sunny	IS1(M/F)6	14:23:49	1.0	Surface	1	2	16.71	8	32.49	107.1	8.56	8.8	6.8	
HKLR	HY/2011/03	2014-01-20	Mid-Ebb	Sunny	IS1(M/F)6			Middle	2	1								
HKLR	HY/2011/03	2014-01-20	Mid-Ebb	Sunny	IS1(M/F)6			Middle	2	2								
HKLR	HY/2011/03	2014-01-20	Mid-Ebb	Sunny	IS1(M/F)6	14:23:40	2.2	Bottom	3	1	16.71	8	32.51	107	8.54	8.4	6.2	
HKLR	HY/2011/03	2014-01-20	Mid-Ebb	Sunny	IS1(M/F)6	14:23:58	2.2	Bottom	3	2	16.64	8	32.51	106.9	8.55	8.5	7.7	
HKLR	HY/2011/03	2014-01-20	Mid-Ebb	Sunny	IS7	14:30:05	1.0	Surface	1	1	16.69	8	32.47	107.2	8.56	17.5	9.5	
HKLR	HY/2011/03	2014-01-20	Mid-Ebb	Sunny	IS7	14:29:49	1.0	Surface	1	2	16.79	8	32.46	106.9	8.53	17.1	10.2	
HKLR	HY/2011/03	2014-01-20	Mid-Ebb	Sunny	IS7			Middle	2	1								
HKLR	HY/2011/03	2014-01-20	Mid-Ebb	Sunny	IS7			Middle	2	2								
HKLR	HY/2011/03	2014-01-20	Mid-Ebb	Sunny	IS7	14:29:37	2.1	Bottom	3	1	16.69	7.99	32.47	106.6	8.52	18.1	10.8	
HKLR	HY/2011/03	2014-01-20	Mid-Ebb	Sunny	IS7	14:29:55	2.1	Bottom	3	2	16.73	8	32.48	106.7	8.52	18.6	9.6	
HKLR	HY/2011/03	2014-01-20	Mid-Ebb	Sunny	IS8	14:51:54	1.0	Surface	1	1	17.03	8.01	32.4	107	8.5	4.5	3.6	
HKLR	HY/2011/03	2014-01-20	Mid-Ebb	Sunny	IS8	14:52:12	1.0	Surface	1	2	16.93	8.01	32.38	106.8	8.5	4.5	4.2	
HKLR	HY/2011/03	2014-01-20	Mid-Ebb	Sunny	IS8			Middle	2	1								
HKLR	HY/2011/03	2014-01-20	Mid-Ebb	Sunny	IS8			Middle	2	2								
HKLR	HY/2011/03	2014-01-20	Mid-Ebb	Sunny	IS8	14:52:02	2.9	Bottom	3	1	16.86	8.01	32.33	106.3	8.47	5.2	5.7	
HKLR	HY/2011/03	2014-01-20	Mid-Ebb	Sunny	IS8	14:51:43	2.9	Bottom	3	2	16.9	8.01	32.33	106.1	8.45	5.1	4.7	
HKLR	HY/2011/03	2014-01-20	Mid-Ebb	Sunny	IS1(M/F)9	14:36:21	1.0	Surface	1	1	17.06	8.03	32.53	110.9	8.8	3.5	4.8	
HKLR	HY/2011/03	2014-01-20	Mid-Ebb	Sunny	IS1(M/F)9	14:36:06	1.0	Surface	1	2	17.09	8.03	32.51	110.7	8.78	3.6	3.3	
HKLR	HY/2011/03	2014-01-20	Mid-Ebb	Sunny	IS1(M/F)9			Middle	2	1								
HKLR	HY/2011/03	2014-01-20	Mid-Ebb	Sunny	IS1(M/F)9			Middle	2	2								
HKLR	HY/2011/03	2014-01-20	Mid-Ebb	Sunny	IS1(M/F)9	14:35:58	2.8	Bottom	3	1	17	8.03	32.46	109.5	8.7	3.7	4.4	
HKLR	HY/2011/03	2014-01-20	Mid-Ebb	Sunny	IS1(M/F)9	14:36:13	2.8	Bottom	3	2	17.07	8.03	32.44	110	8.73	3.6	5.1	
HKLR	HY/2011/03	2014-01-20	Mid-Ebb	Sunny	IS10	14:07:33	1.0	Surface	1	1	16.66	7.99	32.7	106.8	8.53	4.5	4.4	
HKLR	HY/2011/03	2014-01-20	Mid-Ebb	Sunny	IS10	14:07:27	1.0	Surface	1	2	16.65	7.99	32.72	106.4	8.5	4.6	5.3	
HKLR	HY/2011/03	2014-01-20	Mid-Ebb	Sunny	IS10	14:45:42	1.9	Middle	2	1	16.99	7.99	32.34	105	8.35	3.8	4.6	
HKLR	HY/2011/03	2014-01-20	Mid-Ebb	Sunny	IS10	14:45:59	1.9	Middle	2	2	16.99	7.99	32.34	105.1	8.36	3.5	4.8	
HKLR	HY/2011/03	2014-01-20	Mid-Ebb	Sunny	IS10	14:45:30	2.8	Bottom	3	1	16.98	7.99	32.37	104.8	8.33	3.8	7	
HKLR	HY/2011/03	2014-01-20	Mid-Ebb	Sunny	IS10	14:45:49	2.8	Bottom	3	2	16.98	7.99	32.37	105	8.35	3.9	7	
HKLR	HY/2011/03	2014-01-20	Mid-Ebb	Sunny	SR3			Surface	1	1								
HKLR	HY/2011/03	2014-01-20	Mid-Ebb	Sunny	SR3	16:03:33	1.0	Surface	1	2	16.73	7.99	32.79	96.5	7.69	2.1	6.3	
HKLR	HY/2011/03	2014-01-20	Mid-Ebb	Sunny	SR3	16:03:03	1.0	Middle	2	1	16.73	7.99	32.79	96.5	7.7	2.1	5.1	
HKLR	HY/2011/03	2014-01-20	Mid-Ebb	Sunny	SR3			Bottom	3	1								
HKLR	HY/2011/03	2014-01-20	Mid-Ebb	Sunny	SR3	16:03:23	1.0	Surface	1	1	16.73	7.99	32.83	96.4	7.68	2.2	5	
HKLR	HY/2011/03	2014-01-20	Mid-Ebb	Sunny	SR4	16:02:51	1.0	Surface	1	2	16.73	7.99	32.83	96.4	7.68	2.2	3.8	
HKLR	HY/2011/03	2014-01-20	Mid-Ebb	Sunny	SR4			Middle	2	1								
HKLR	HY/2011/03	2014-01-20	Mid-Ebb	Sunny	SR4	16:03:12	5.4	Middle	2	2	16.73	7.99	32.83	96.4	7.68	2.5	6.3	
HKLR	HY/2011/03	2014-01-20	Mid-Ebb	Sunny	SR4	16:02:43	5.4	Bottom	3	1	16.73	7.99	32.84	96.4	7.69	2.6	5.8	
HKLR	HY/2011/03	2014-01-20	Mid-Ebb	Sunny	SR5	16:12:56	1.0	Surface	1	1	16.72	8	32.8	96.2	7.67	2.1	3.5	
HKLR	HY/2011/03	2014-01-20	Mid-Ebb	Sunny	SR5	16:12:41	1.0	Surface	1	2	16.72	7.99	32.8	96.3	7.68	2.1	3.9	
HKLR	HY/2011/03	2014-01-20	Mid-Ebb	Sunny	SR5			Middle	2	1								
HKLR	HY/2011/03	2014-01-20	Mid-Ebb	Sunny	SR5			Middle	2	2								
HKLR	HY/2011/03	2014-01-20	Mid-Ebb	Sunny	SR5	16:12:32	3.7	Bottom	3	1	16.73	8	32.82	96.2	7.67	2.1	3.5	
HKLR	HY/2011/03	2014-01-20	Mid-Ebb	Sunny	SR5	16:12:47	3.7	Bottom	3	2	16.72	8	32.82	96.1	7.66	2.2	4.6	

Water Quarterly Monitoring Data

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HKLR	HY/2011/03	2014-01-20	Mid-Ebb	Sunny	SR10A	15:31:19	1.0	Surface	1	1	16.94	7.99	32.5	98.6	7.84	2.5	3.5
HKLR	HY/2011/03	2014-01-20	Mid-Ebb	Sunny	SR10A	15:31:57	1.0	Surface	1	2	16.91	8	32.53	98.4	7.83	2.4	4.7
HKLR	HY/2011/03	2014-01-20	Mid-Ebb	Sunny	SR10A	15:31:46	6.4	Middle	2	1	16.74	7.99	32.76	97.3	7.75	2.5	5.2
HKLR	HY/2011/03	2014-01-20	Mid-Ebb	Sunny	SR10A	15:31:05	6.4	Middle	2	2	16.74	7.99	32.76	97.3	7.75	2.4	5.5
HKLR	HY/2011/03	2014-01-20	Mid-Ebb	Sunny	SR10A	15:30:50	11.7	Bottom	3	1	16.7	7.98	32.82	97.8	7.8	2.7	5.3
HKLR	HY/2011/03	2014-01-20	Mid-Ebb	Sunny	SR10A	15:31:34	11.7	Bottom	3	2	16.31	7.99	32.78	97.9	7.81	2.7	5.6
HKLR	HY/2011/03	2014-01-20	Mid-Ebb	Sunny	SR10B	10:28:53	1.0	Surface	1	1	16.33	8.05	32.7	102.6	8.25	4.6	4.5
HKLR	HY/2011/03	2014-01-20	Mid-Ebb	Sunny	SR10B	10:28:15	1.0	Surface	1	2	16.29	8.04	32.71	102.6	8.25	4.7	5.9
HKLR	HY/2011/03		Mid-Ebb		SR10B			Middle	2	1							
HKLR	HY/2011/03		Mid-Ebb		SR10B			Middle	2	2							
HKLR	HY/2011/03	2014-01-20	Mid-Ebb	Sunny	SR10B	10:28:41	4.2	Bottom	3	1	16.29	8.05	32.71	102.3	8.23	4.6	5.2
HKLR	HY/2011/03	2014-01-20	Mid-Ebb	Sunny	SR10B	10:28:04	4.2	Bottom	3	2	16.28	8.04	32.71	102.2	8.22	4.7	5.2
HKLR	HY/2011/03	2014-01-20	Mid-Ebb	Sunny	SR10B	10:28:29	1.0	Surface	1	1	16.29	8.04	32.71	102.2	8.22	4.5	4.9
HKLR	HY/2011/03	2014-01-20	Mid-Ebb	Sunny	CS2	10:27:53	1.0	Surface	1	1	16.29	8.04	32.71	102.1	8.21	4.6	5
HKLR	HY/2011/03	2014-01-20	Mid-Ebb	Sunny	CS2	10:20:01	1.6	Middle	2	1	16.47	8.03	32.72	105.1	8.42	5.5	4.2
HKLR	HY/2011/03	2014-01-20	Mid-Ebb	Sunny	CS2	10:19:46	1.6	Middle	2	2	16.46	8.03	32.71	105	8.41	5.5	3.7
HKLR	HY/2011/03	2014-01-20	Mid-Ebb	Sunny	CS2	10:19:37	2.2	Bottom	3	1	16.42	8.03	32.7	104.7	8.4	5.3	5.3
HKLR	HY/2011/03	2014-01-20	Mid-Ebb	Sunny	CS2	10:19:54	2.2	Bottom	3	2	16.43	8.03	32.7	104.9	8.41	5.4	5.5
HKLR	HY/2011/03	2014-01-20	Mid-Ebb	Sunny	CS2	10:13:18	1.0	Surface	1	1	16.58	8.01	32.69	104.3	8.35	8.6	5.3
HKLR	HY/2011/03	2014-01-20	Mid-Ebb	Sunny	CS(MF)5	10:13:36	1.0	Surface	1	2	16.55	8.02	32.68	104.2	8.34	8.5	3.2
HKLR	HY/2011/03	2014-01-20	Mid-Ebb	Sunny	CS(MF)5	10:13:09	1.1	Middle	2	1	16.49	8.01	32.68	104.1	8.34	8.6	4.9
HKLR	HY/2011/03	2014-01-20	Mid-Ebb	Sunny	CS(MF)5	10:13:27	1.1	Middle	2	2	16.52	8.02	32.68	104.1	8.34	8.6	3
HKLR	HY/2011/03	2014-01-20	Mid-Ebb	Sunny	CS(MF)5	09:48:10	1.1	Bottom	3	1	16.49	8.01	32.6	102.1	8.19	5.5	4.4
HKLR	HY/2011/03	2014-01-20	Mid-Ebb	Sunny	CS(MF)5	09:48:29	1.1	Bottom	3	2	16.49	8.01	32.6	102.1	8.18	5.6	3.3
HKLR	HY/2011/03	2014-01-20	Mid-Flood	Sunny	IS5	09:48:02	1.0	Surface	1	1	16.49	8	32.6	102.1	8.18	5.7	4.8
HKLR	HY/2011/03	2014-01-20	Mid-Flood	Sunny	IS5	09:48:21	1.0	Surface	1	2	16.49	8.01	32.61	102	8.18	5.4	4.3
HKLR	HY/2011/03	2014-01-20	Mid-Flood	Sunny	IS5	10:06:26	1.8	Middle	2	1	16.46	8.03	32.75	105.3	8.44	13.5	5.4
HKLR	HY/2011/03	2014-01-20	Mid-Flood	Sunny	IS5	10:06:07	1.8	Middle	2	2	16.46	8.03	32.74	105.4	8.45	13	5.8
HKLR	HY/2011/03	2014-01-20	Mid-Flood	Sunny	IS5	10:05:55	2.5	Bottom	3	1	16.46	8.03	32.74	105.6	8.46	13.3	6.9
HKLR	HY/2011/03	2014-01-20	Mid-Flood	Sunny	IS5	10:06:17	2.5	Bottom	3	2	16.45	8.03	32.75	105.2	8.44	13.7	5.5
HKLR	HY/2011/03	2014-01-20	Mid-Flood	Sunny	IS(MF)6	10:34:33	1.0	Surface	1	1	16.3	8.05	32.7	103	8.28	4.8	5.7
HKLR	HY/2011/03	2014-01-20	Mid-Flood	Sunny	IS(MF)6	10:34:43	1.0	Surface	1	2	16.31	8.05	32.7	103	8.29	4.5	5.5
HKLR	HY/2011/03		Mid-Flood		IS(MF)6			Middle	2	1							
HKLR	HY/2011/03		Mid-Flood		IS(MF)6			Middle	2	2							
HKLR	HY/2011/03	2014-01-20	Mid-Flood	Sunny	IS(MF)6	09:55:21	1.0	Bottom	3	1	16.51	8.01	32.58	100.7	8.07	4.2	7.5
HKLR	HY/2011/03	2014-01-20	Mid-Flood	Sunny	IS(MF)6	09:55:32	1.0	Bottom	3	2	16.51	8.01	32.58	100.3	8.04	4.1	6.4
HKLR	HY/2011/03	2014-01-20	Mid-Flood	Sunny	IS7	09:55:10	1.0	Surface	1	1	16.5	8.01	32.58	101.1	8.1	4	7.5
HKLR	HY/2011/03	2014-01-20	Mid-Flood	Sunny	IS7	09:55:25	1.0	Surface	1	2	16.51	8.01	32.58	100.4	8.04	4.2	7.1
HKLR	HY/2011/03		Mid-Flood		IS7			Middle	2	1							
HKLR	HY/2011/03		Mid-Flood		IS7			Middle	2	2							
HKLR	HY/2011/03	2014-01-20	Mid-Flood	Sunny	IS7	08:45:04	1.1	Bottom	3	1	16.6	7.98	32.67	96.8	7.74	3.5	9
HKLR	HY/2011/03	2014-01-20	Mid-Flood	Sunny	IS7	08:45:27	1.1	Bottom	3	2	16.6	7.98	32.67	97	7.76	3.5	9.7
HKLR	HY/2011/03	2014-01-20	Mid-Flood	Sunny	IS8	08:45:20	1.0	Surface	1	1	16.6	7.98	32.69	96.7	7.73	3.5	4.8
HKLR	HY/2011/03	2014-01-20	Mid-Flood	Sunny	IS8	08:44:56	1.0	Surface	1	2	16.61	7.98	32.73	96.7	7.73	3.4	5.9
HKLR	HY/2011/03		Mid-Flood		IS8			Middle	2	1							
HKLR	HY/2011/03		Mid-Flood		IS8			Middle	2	2							
HKLR	HY/2011/03	2014-01-20	Mid-Flood	Sunny	IS8	08:44:49	5.6	Bottom	3	1	16.61	7.97	32.72	96.9	7.74	3.5	5.4
HKLR	HY/2011/03	2014-01-20	Mid-Flood	Sunny	IS8	08:45:11	5.6	Bottom	3	2	16.6	7.98	32.71	96.8	7.74	3.5	6.5
HKLR	HY/2011/03	2014-01-20	Mid-Flood	Sunny	IS(MF)9	08:38:28	1.0	Surface	1	1	16.61	7.95	32.61	97.6	7.81	3.5	15.7
HKLR	HY/2011/03	2014-01-20	Mid-Flood	Sunny	IS(MF)9	08:38:46	1.0	Surface	1	2	16.6	7.96	32.61	97.5	7.8	3.5	15.6
HKLR	HY/2011/03		Mid-Flood		IS(MF)9			Middle	2	1							
HKLR	HY/2011/03		Mid-Flood		IS(MF)9			Middle	2	2							
HKLR	HY/2011/03	2014-01-20	Mid-Flood	Sunny	IS(MF)9	08:38:36	4.4	Bottom	3	1	16.6	7.96	32.62	97.4	7.79	3.5	17.1
HKLR	HY/2011/03	2014-01-20	Mid-Flood	Sunny	IS(MF)9	08:38:17	4.4	Bottom	3	2	16.61	7.95	32.61	97.5	7.8	3.6	15
HKLR	HY/2011/03	2014-01-20	Mid-Flood	Sunny	IS10	09:14:35	1.0	Surface	1	1	16.48	7.98	32.4	98.2	7.88	5.4	9.5
HKLR	HY/2011/03	2014-01-20	Mid-Flood	Sunny	IS10	09:13:47	1.0	Surface	1	2	16.47	7.98	32.41	98.2	7.89	5.5	9.7
HKLR	HY/2011/03	2014-01-20	Mid-Flood	Sunny	IS10	09:13:37	6.6	Middle	2	1	16.49	7.98	32.52	97.9	7.85	8.4	11.2
HKLR	HY/2011/03	2014-01-20	Mid-Flood	Sunny	IS10	09:14:22	6.6	Middle	2	2	16.49	7.98	32.52	97.6	7.84	8.6	11.6
HKLR	HY/2011/03	2014-01-20	Mid-Flood	Sunny	IS10	09:14:12	12.1	Bottom	3	1	16.49	7.98	32.53	97.7	7.83	9.6	13.4
HKLR	HY/2011/03	2014-01-20	Mid-Flood	Sunny	IS10	09:13:26	12.1	Bottom	3	2	16.49	7.97	32.52	97.8	7.84	9.5	14.3
HKLR	HY/2011/03		Mid-Flood		SR3			Surface	1	1							
HKLR	HY/2011/03		Mid-Flood		SR3			Surface	1	2							

Water Quarterly Monitoring Data

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HLR	HY/2011/03	2014-01-20	Mid-Flood	Sunny	SR3	15:12:24	1.0	Middle	2	1	16.96	8.28	31.36	97.8	7.83	3	6
HLR	HY/2011/03	2014-01-20	Mid-Flood	Sunny	SR3	15:13:18	1.0	Middle	2	2	16.89	8.29	31.5	97.9	7.84	3.2	7.5
HLR	HY/2011/03		Mid-Flood		SR3			Bottom	3	1							
HLR	HY/2011/03		Mid-Flood		SR3			Bottom	3	2							
HLR	HY/2011/03	2014-01-20	Mid-Flood	Sunny	SR4	15:11:58	1.0	Surface	1	1	16.51	8.32	32.33	96.8	7.77	3.9	4.3
HLR	HY/2011/03	2014-01-20	Mid-Flood	Sunny	SR4	15:13:02	1.0	Surface	1	2	16.48	8.32	32.35	96.9	7.79	4.1	4.4
HLR	HY/2011/03		Mid-Flood		SR4			Middle	2	1							
HLR	HY/2011/03		Mid-Flood		SR4			Middle	2	2							
HLR	HY/2011/03	2014-01-20	Mid-Flood	Sunny	SR4	15:12:54	8.7	Bottom	3	1	16.49	8.32	32.34	96.8	7.78	4.4	5.3
HLR	HY/2011/03	2014-01-20	Mid-Flood	Sunny	SR4	15:11:46	8.7	Bottom	3	2	16.45	8.32	32.36	96.6	7.76	4.1	6
HLR	HY/2011/03	2014-01-20	Mid-Flood	Sunny	SR5	15:04:24	1.0	Surface	1	1	16.96	8.28	31.33	97.8	7.83	3.3	11.8
HLR	HY/2011/03	2014-01-20	Mid-Flood	Sunny	SR5	15:04:55	1.0	Surface	1	2	16.94	8.28	31.38	97.8	7.83	3.1	11.3
HLR	HY/2011/03		Mid-Flood		SR5			Middle	2	1							
HLR	HY/2011/03		Mid-Flood		SR5			Middle	2	2							
HLR	HY/2011/03	2014-01-20	Mid-Flood	Sunny	SR5	15:04:38	4.5	Bottom	3	1	16.54	8.3	32.22	96.9	7.78	3.5	10.8
HLR	HY/2011/03	2014-01-20	Mid-Flood	Sunny	SR5	15:04:04	4.5	Bottom	3	2	16.55	8.3	32.21	96.9	7.78	3.4	11
HLR	HY/2011/03	2014-01-20	Mid-Flood	Sunny	SR5	13:49:30	1.0	Surface	1	1	16.9	8.34	31.98	98.5	7.86	3	4.7
HLR	HY/2011/03	2014-01-20	Mid-Flood	Sunny	SR10A	13:50:09	1.0	Surface	1	1	16.89	8.32	31.86	98.3	7.85	3.3	5
HLR	HY/2011/03	2014-01-20	Mid-Flood	Sunny	SR10A	13:49:16	3.4	Middle	2	1	16.74	8.37	32.41	98.2	7.85	4	5.2
HLR	HY/2011/03	2014-01-20	Mid-Flood	Sunny	SR10A	13:49:58	3.4	Middle	2	2	16.8	8.34	32.09	98.2	7.85	4.2	5.4
HLR	HY/2011/03	2014-01-20	Mid-Flood	Sunny	SR10A	13:49:47	5.8	Bottom	3	1	16.59	8.35	32.6	97.7	7.82	4.5	6.3
HLR	HY/2011/03	2014-01-20	Mid-Flood	Sunny	SR10A	13:49:01	5.8	Bottom	3	2	16.61	8.4	32.82	97.5	7.79	4.6	7.4
HLR	HY/2011/03	2014-01-20	Mid-Flood	Sunny	SR10B	09:51:09	1.0	Surface	1	1	16.4	8.3	32.31	97.3	7.83	8.1	5.3
HLR	HY/2011/03	2014-01-20	Mid-Flood	Sunny	SR10B	09:52:06	1.0	Surface	1	2	16.4	8.3	32.33	97.3	7.83	8.2	7.2
HLR	HY/2011/03		Mid-Flood		SR10B			Middle	2	1							
HLR	HY/2011/03		Mid-Flood		SR10B			Middle	2	2							
HLR	HY/2011/03	2014-01-20	Mid-Flood	Sunny	SR10B	09:51:42	5.1	Bottom	3	1	16.4	8.3	32.36	97.1	7.81	9.1	6
HLR	HY/2011/03	2014-01-20	Mid-Flood	Sunny	SR10B	09:50:55	5.1	Bottom	3	2	16.4	8.3	32.35	97.1	7.81	9.1	7.6
HLR	HY/2011/03	2014-01-20	Mid-Flood	Sunny	CS2	09:51:26	1.0	Surface	1	1	16.4	8.3	32.36	97	7.8	10	10.5
HLR	HY/2011/03	2014-01-20	Mid-Flood	Sunny	CS2	09:50:39	1.0	Surface	1	2	16.4	8.3	32.37	97.1	7.81	10.6	12.1
HLR	HY/2011/03	2014-01-20	Mid-Flood	Sunny	CS2	09:59:43	2.9	Middle	2	1	16.4	8.3	32.32	97.3	7.82	8	12.5
HLR	HY/2011/03	2014-01-20	Mid-Flood	Sunny	CS2	10:00:13	2.9	Middle	2	2	16.4	8.3	32.33	97.3	7.83	8.2	12.6
HLR	HY/2011/03	2014-01-20	Mid-Flood	Sunny	CS2	09:00:02	4.7	Bottom	3	1	16.4	8.3	32.35	97	7.8	8.5	11.8
HLR	HY/2011/03	2014-01-20	Mid-Flood	Sunny	CS2	09:59:29	4.7	Bottom	3	2	16.4	8.31	32.35	97.1	7.81	9.1	12.5
HLR	HY/2011/03	2014-01-20	Mid-Flood	Sunny	CS(M)FS	11:15:01	1.0	Surface	1	1	16.41	8.31	32.35	97.6	7.85	8.5	3.3
HLR	HY/2011/03	2014-01-20	Mid-Flood	Sunny	CS(M)FS	11:14:20	1.0	Surface	1	2	16.42	8.31	32.36	97.5	7.84	9	3.7
HLR	HY/2011/03	2014-01-20	Mid-Flood	Sunny	CS(M)FS	11:14:50	3.3	Middle	2	1	16.43	8.31	32.39	97.5	7.83	9.3	3.8
HLR	HY/2011/03	2014-01-20	Mid-Flood	Sunny	CS(M)FS	11:14:09	3.3	Middle	2	2	16.43	8.31	32.39	97.4	7.83	9.8	3.5
HLR	HY/2011/03	2014-01-20	Mid-Flood	Sunny	CS(M)FS	11:14:37	5.6	Bottom	3	1	16.44	8.31	32.4	97.4	7.82	9.2	4.8
HLR	HY/2011/03	2014-01-20	Mid-Flood	Sunny	CS(M)FS	11:13:54	5.6	Bottom	3	2	16.44	8.31	32.41	97.2	7.81	10.3	4.8
HLR	HY/2011/03	2014-01-22	Mid-Ebb	Sunny	IS5	15:27:24	1.0	Surface	1	1	15.89	8.1	32.36	108.5	8.81	5.4	6.4
HLR	HY/2011/03	2014-01-22	Mid-Ebb	Sunny	IS5	15:26:55	1.0	Surface	1	2	15.88	8.1	32.37	108.2	8.79	5.3	7.4
HLR	HY/2011/03	2014-01-22	Mid-Ebb	Sunny	IS5	15:27:14	4.2	Middle	2	1	15.88	8.1	32.41	108.2	8.79	5.3	7.2
HLR	HY/2011/03	2014-01-22	Mid-Ebb	Sunny	IS5	15:26:49	4.2	Middle	2	2	15.85	8.09	32.4	108	8.78	5.4	6.4
HLR	HY/2011/03	2014-01-22	Mid-Ebb	Sunny	IS5	15:26:37	7.4	Bottom	3	1	15.86	8.09	32.38	108.4	8.81	5.2	7.1
HLR	HY/2011/03	2014-01-22	Mid-Ebb	Sunny	IS5	15:27:04	7.4	Bottom	3	2	15.88	8.1	32.39	108	8.78	5.2	7.1
HLR	HY/2011/03	2014-01-22	Mid-Ebb	Sunny	IS(M)F6	15:33:21	1.0	Surface	1	1	15.85	8.1	32.34	107.3	8.72	10.1	6.8
HLR	HY/2011/03	2014-01-22	Mid-Ebb	Sunny	IS(M)F6	15:33:39	1.0	Surface	1	2	15.86	8.1	32.34	107.4	8.73	11	5.7
HLR	HY/2011/03		Mid-Ebb		IS(M)F6			Middle	2	1							
HLR	HY/2011/03		Mid-Ebb		IS(M)F6			Middle	2	2							
HLR	HY/2011/03	2014-01-22	Mid-Ebb	Sunny	IS(M)F6	15:33:09	2.3	Bottom	3	1	15.8	8.1	32.36	106.9	8.7	12.6	5.1
HLR	HY/2011/03	2014-01-22	Mid-Ebb	Sunny	IS(M)F6	15:33:30	2.3	Bottom	3	2	15.8	8.1	32.36	107.1	8.72	13.3	6.1
HLR	HY/2011/03	2014-01-22	Mid-Ebb	Sunny	IS7	15:42:06	1.0	Surface	1	1	16.28	8.11	32.31	112.1	9.04	4.5	4.3
HLR	HY/2011/03	2014-01-22	Mid-Ebb	Sunny	IS7	15:41:29	1.0	Surface	1	2	16.21	8.11	32.33	111.4	8.99	4.6	4.7
HLR	HY/2011/03		Mid-Ebb		IS7			Middle	2	1							
HLR	HY/2011/03		Mid-Ebb		IS7			Middle	2	2							
HLR	HY/2011/03	2014-01-22	Mid-Ebb	Sunny	IS7	15:41:21	2.2	Bottom	3	1	16.09	8.11	32.28	110.5	8.95	5.1	3.1
HLR	HY/2011/03	2014-01-22	Mid-Ebb	Sunny	IS7	15:41:57	2.2	Bottom	3	2	16.07	8.12	32.28	113.3	9.01	3.9	3.9
HLR	HY/2011/03	2014-01-22	Mid-Ebb	Sunny	IS8	16:07:01	1.0	Surface	1	1	16.29	8.06	32.13	103.2	8.33	3.4	3.9
HLR	HY/2011/03	2014-01-22	Mid-Ebb	Sunny	IS8	16:06:39	1.0	Surface	1	2	16.29	8.05	32.13	103.2	8.33	3.5	4.3
HLR	HY/2011/03		Mid-Ebb		IS8			Middle	2	1							
HLR	HY/2011/03		Mid-Ebb		IS8			Middle	2	2							

Water Quarterly Monitoring Data

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HCLR	HY/2011/03	2014-01-22	Mid-Ebb	Sunny	IS8	16:06:46	2.8	Bottom	3	1	16.27	8.06	32.12	102.9	8.31	3.5	3.3
HCLR	HY/2011/03	2014-01-22	Mid-Ebb	Sunny	IS8	16:06:28	2.8	Bottom	3	2	16.21	8.05	32.16	102.9	8.32	3.8	3.8
HCLR	HY/2011/03	2014-01-22	Mid-Ebb	Sunny	IS(M)F9	15:48:40	1.0	Surface	1	1	16.3	8.07	32.23	107.6	8.68	3.8	5.2
HCLR	HY/2011/03	2014-01-22	Mid-Ebb	Sunny	IS(M)F9	15:49:02	1.0	Surface	1	2	16.29	8.07	32.21	107.3	8.66	3.7	5
HCLR	HY/2011/03		Mid-Ebb		IS(M)F9			Middle	2	1							
HCLR	HY/2011/03		Mid-Ebb		IS(M)F9			Middle	2	2							
HCLR	HY/2011/03	2014-01-22	Mid-Ebb	Sunny	IS(M)F9	15:48:45	2.5	Bottom	3	1	16.22	8.07	32.17	106.8	8.63	4	7
HCLR	HY/2011/03	2014-01-22	Mid-Ebb	Sunny	IS(M)F9	15:48:28	2.5	Bottom	3	2	16.01	8.08	32.23	106.6	8.65	4	5.2
HCLR	HY/2011/03	2014-01-22	Mid-Ebb	Sunny	IS10	16:46:33	1.0	Surface	1	1	16.17	8.3	32.19	98.2	7.95	4.5	6.4
HCLR	HY/2011/03	2014-01-22	Mid-Ebb	Sunny	IS10	16:45:51	1.0	Surface	1	2	16.17	8.3	32.21	97.9	7.92	4.5	5.2
HCLR	HY/2011/03	2014-01-22	Mid-Ebb	Sunny	IS10	16:46:17	5.2	Middle	2	1	16.17	8.3	32.26	97.6	7.89	4.7	4.6
HCLR	HY/2011/03	2014-01-22	Mid-Ebb	Sunny	IS10	16:45:42	5.2	Middle	2	2	16.18	8.3	32.27	97.6	7.89	4.6	4.6
HCLR	HY/2011/03	2014-01-22	Mid-Ebb	Sunny	IS10	16:46:03	9.3	Bottom	3	1	16.2	8.3	32.36	97.9	7.9	4.8	5.9
HCLR	HY/2011/03	2014-01-22	Mid-Ebb	Sunny	IS10	16:45:33	9.3	Bottom	3	2	16.19	8.3	32.37	97.8	7.9	4.7	4.9
HCLR	HY/2011/03		Mid-Ebb		SR3			Surface	1	1							
HCLR	HY/2011/03		Mid-Ebb		SR3			Surface	1	2							
HCLR	HY/2011/03	2014-01-22	Mid-Ebb	Sunny	SR3	15:09:33	0.8	Middle	2	1	16.11	8.09	32.32	111.4	9.02	6.3	7.1
HCLR	HY/2011/03	2014-01-22	Mid-Ebb	Sunny	SR3	15:09:41	0.8	Middle	2	2	16.12	8.1	32.32	111.8	9.05	5.7	6.7
HCLR	HY/2011/03		Mid-Ebb		SR3			Bottom	3	1							
HCLR	HY/2011/03		Mid-Ebb		SR3			Bottom	3	2							
HCLR	HY/2011/03	2014-01-22	Mid-Ebb	Sunny	SR4	15:59:49	1.0	Surface	1	1	16.24	8.03	32.2	105.2	8.5	3.6	5.3
HCLR	HY/2011/03	2014-01-22	Mid-Ebb	Sunny	SR4	15:59:33	1.0	Surface	1	2	16.23	8.02	32.21	105.5	8.52	3.7	5.3
HCLR	HY/2011/03		Mid-Ebb		SR4			Middle	2	1							
HCLR	HY/2011/03		Mid-Ebb		SR4			Middle	2	2							
HCLR	HY/2011/03	2014-01-22	Mid-Ebb	Sunny	SR4	15:59:25	2.5	Bottom	3	1	16.23	8.02	32.23	105.7	8.53	3.7	4.5
HCLR	HY/2011/03	2014-01-22	Mid-Ebb	Sunny	SR4	15:59:41	2.5	Bottom	3	2	16.23	8.03	32.21	105.4	8.51	3.7	5.2
HCLR	HY/2011/03	2014-01-22	Mid-Ebb	Sunny	SR5	16:33:55	1.0	Surface	1	1	16.15	8.3	32.2	98.7	7.99	4.6	4.3
HCLR	HY/2011/03	2014-01-22	Mid-Ebb	Sunny	SR5	16:34:18	1.0	Surface	1	2	16.15	8.3	32.2	98.7	7.98	4.5	4.5
HCLR	HY/2011/03		Mid-Ebb		SR5			Middle	2	1							
HCLR	HY/2011/03		Mid-Ebb		SR5			Middle	2	2							
HCLR	HY/2011/03	2014-01-22	Mid-Ebb	Sunny	SR5	16:34:08	3.8	Bottom	3	1	16.14	8.3	32.21	98.5	7.97	4.6	4.4
HCLR	HY/2011/03	2014-01-22	Mid-Ebb	Sunny	SR5	16:33:45	3.8	Bottom	3	2	16.14	8.3	32.21	98.7	7.98	4.6	4.6
HCLR	HY/2011/03	2014-01-22	Mid-Ebb	Sunny	SR10A	17:07:22	1.0	Surface	1	1	16.41	8.09	32.86	97.2	7.8	1.6	3.6
HCLR	HY/2011/03	2014-01-22	Mid-Ebb	Sunny	SR10A	17:07:53	1.0	Surface	1	2	16.41	8.09	32.86	97	7.78	1.8	3.8
HCLR	HY/2011/03	2014-01-22	Mid-Ebb	Sunny	SR10A	17:07:43	3.4	Middle	2	1	16.42	8.09	32.89	96.9	7.77	1.7	4.4
HCLR	HY/2011/03	2014-01-22	Mid-Ebb	Sunny	SR10A	17:07:10	3.4	Middle	2	2	16.42	8.09	32.89	97.1	7.78	1.9	3.8
HCLR	HY/2011/03	2014-01-22	Mid-Ebb	Sunny	SR10A	17:07:01	5.7	Bottom	3	1	16.42	8.09	32.92	97.1	7.78	2	4.2
HCLR	HY/2011/03	2014-01-22	Mid-Ebb	Sunny	SR10A	17:07:34	5.7	Bottom	3	2	16.42	8.09	32.9	97	7.77	2.1	4.1
HCLR	HY/2011/03	2014-01-22	Mid-Ebb	Sunny	SR10B	17:19:39	1.0	Surface	1	1	16.42	8.09	32.87	97	7.77	1.4	2.3
HCLR	HY/2011/03	2014-01-22	Mid-Ebb	Sunny	SR10B	17:19:12	1.0	Surface	1	2	16.42	8.09	32.87	96.9	7.77	1.3	2.2
HCLR	HY/2011/03		Mid-Ebb		SR10B			Middle	2	1							
HCLR	HY/2011/03		Mid-Ebb		SR10B			Middle	2	2							
HCLR	HY/2011/03	2014-01-22	Mid-Ebb	Sunny	SR10B	17:18:59	4.5	Bottom	3	1	16.41	8.09	32.9	96.8	7.76	1.7	3.9
HCLR	HY/2011/03	2014-01-22	Mid-Ebb	Sunny	SR10B	17:19:27	4.5	Bottom	3	2	16.42	8.09	32.9	96.7	7.75	1.8	3.9
HCLR	HY/2011/03	2014-01-22	Mid-Ebb	Sunny	CS2	15:12:16	1.0	Surface	1	1	16.27	8.33	32.5	98.6	7.95	3.5	4.2
HCLR	HY/2011/03	2014-01-22	Mid-Ebb	Sunny	CS2	15:11:41	1.0	Surface	1	2	16.27	8.33	32.54	99.3	7.99	3.4	5.1
HCLR	HY/2011/03	2014-01-22	Mid-Ebb	Sunny	CS2	15:12:04	4.0	Middle	2	1	16.17	8.32	32.53	98.1	7.92	3.5	4.6
HCLR	HY/2011/03	2014-01-22	Mid-Ebb	Sunny	CS2	15:11:28	4.0	Middle	2	2	16.18	8.33	32.58	98.9	7.98	3.5	4.8
HCLR	HY/2011/03	2014-01-22	Mid-Ebb	Sunny	CS2	15:11:09	7.0	Bottom	3	1	16.17	8.33	32.63	99.8	8.05	3.8	4.7
HCLR	HY/2011/03	2014-01-22	Mid-Ebb	Sunny	CS2	15:11:56	7.0	Bottom	3	2	16.18	8.32	32.53	99.5	7.95	3.7	4.8
HCLR	HY/2011/03	2014-01-22	Mid-Ebb	Sunny	CS(M)F5	16:41:57	1.0	Surface	1	1	16.48	8.08	32.8	98.8	7.99	3.1	2.4
HCLR	HY/2011/03	2014-01-22	Mid-Ebb	Sunny	CS(M)F5	16:42:51	1.0	Surface	1	2	16.48	8.09	32.81	99.5	7.97	3	3
HCLR	HY/2011/03	2014-01-22	Mid-Ebb	Sunny	CS(M)F5	16:42:36	6.7	Middle	2	1	16.47	8.08	32.89	98.7	7.91	3.2	3
HCLR	HY/2011/03	2014-01-22	Mid-Ebb	Sunny	CS(M)F5	16:41:45	6.7	Middle	2	2	16.47	8.08	32.89	99.2	7.95	3	2.5
HCLR	HY/2011/03	2014-01-22	Mid-Ebb	Sunny	CS(M)F5	16:42:22	12.4	Bottom	3	1	16.47	8.08	32.91	98.9	7.92	2.1	2.5
HCLR	HY/2011/03	2014-01-22	Mid-Ebb	Sunny	CS(M)F5	16:41:33	12.4	Bottom	3	2	16.48	8.08	32.88	99.5	7.96	2.3	3.8
HCLR	HY/2011/03	2014-01-22	Mid-Flood	Sunny	IS5	11:43:54	1.0	Surface	1	1	15.69	8.11	32.6	104.2	8.48	4.5	4.8
HCLR	HY/2011/03	2014-01-22	Mid-Flood	Sunny	IS5	11:43:11	1.0	Surface	1	2	15.71	8.1	32.61	104.4	8.5	4.3	4.5
HCLR	HY/2011/03	2014-01-22	Mid-Flood	Sunny	IS5	11:43:37	4.3	Middle	2	1	15.66	8.1	32.61	103.8	8.46	4.7	5.1
HCLR	HY/2011/03	2014-01-22	Mid-Flood	Sunny	IS5	11:43:03	4.3	Middle	2	2	15.7	8.1	32.61	104.1	8.48	4.4	4.6
HCLR	HY/2011/03	2014-01-22	Mid-Flood	Sunny	IS5	11:43:22	7.6	Bottom	3	1	15.69	8.1	32.61	104.1	8.47	4.3	5.4
HCLR	HY/2011/03	2014-01-22	Mid-Flood	Sunny	IS5	11:42:53	7.6	Bottom	3	2	15.7	8.1	32.61	104.1	8.47	4.4	4.8

Water Quarterly Monitoring Data

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HCLR	HY/2011/03	2014-01-22	Mid-Flood	Sunny	IS(M)F6	11:32:46	1.0	Surface	1	1	15.96	8.1	32.57	108.1	8.76	7.8	4.4
HCLR	HY/2011/03	2014-01-22	Mid-Flood	Sunny	IS(M)F6	11:33:10	1.0	Surface	1	2	15.98	8.1	32.57	108.3	8.77	8.2	4.1
HCLR	HY/2011/03		Mid-Flood		IS(M)F6			Middle	2								
HCLR	HY/2011/03		Mid-Flood		IS(M)F6			Middle	2								
HCLR	HY/2011/03	2014-01-22	Mid-Flood	Sunny	IS(M)F6	11:32:56	2.3	Bottom	3	1	15.86	8.1	32.55	107.9	8.76	9.1	4.9
HCLR	HY/2011/03	2014-01-22	Mid-Flood	Sunny	IS(M)F6	11:32:37	2.3	Bottom	3	2	15.74	8.1	32.65	107.5	8.75	8.7	4.9
HCLR	HY/2011/03	2014-01-22	Mid-Flood	Sunny	IS7	11:24:06	1.0	Surface	1	1	15.72	8.08	32.54	104.8	8.53	12.4	5.2
HCLR	HY/2011/03	2014-01-22	Mid-Flood	Sunny	IS7	11:23:44	1.0	Surface	1	2	15.66	8.07	32.55	104.7	8.53	11.5	4.9
HCLR	HY/2011/03		Mid-Flood		IS7			Middle	2								
HCLR	HY/2011/03		Mid-Flood		IS7			Middle	2								
HCLR	HY/2011/03	2014-01-22	Mid-Flood	Sunny	IS7	11:23:51	2.4	Bottom	3	1	15.65	8.07	32.53	104.5	8.52	11.8	5.8
HCLR	HY/2011/03	2014-01-22	Mid-Flood	Sunny	IS7	11:23:35	2.4	Bottom	3	2	15.62	8.07	32.53	104.7	8.54	12.5	5.7
HCLR	HY/2011/03	2014-01-22	Mid-Flood	Sunny	IS8	10:59:02	1.0	Surface	1	1	15.96	8.02	32.4	99.8	8.1	9.8	2.7
HCLR	HY/2011/03	2014-01-22	Mid-Flood	Sunny	IS8	10:58:45	1.0	Surface	1	2	15.94	8.02	32.4	100.3	8.14	10.7	2.4
HCLR	HY/2011/03		Mid-Flood		IS8			Middle	2								
HCLR	HY/2011/03		Mid-Flood		IS8			Middle	2								
HCLR	HY/2011/03	2014-01-22	Mid-Flood	Sunny	IS8	10:58:53	2.7	Bottom	3	1	15.94	8.02	32.4	99.9	8.11	11.1	4
HCLR	HY/2011/03	2014-01-22	Mid-Flood	Sunny	IS8	10:58:38	2.7	Bottom	3	2	15.94	8.02	32.4	100.5	8.15	11.8	2.6
HCLR	HY/2011/03	2014-01-22	Mid-Flood	Sunny	IS(M)F9	11:17:57	1.0	Surface	1	1	15.88	8.01	32.42	101.5	8.24	13.1	9.7
HCLR	HY/2011/03	2014-01-22	Mid-Flood	Sunny	IS(M)F9	11:18:17	1.0	Surface	1	2	15.86	8.02	32.43	101.2	8.22	12.7	10.3
HCLR	HY/2011/03		Mid-Flood		IS(M)F9			Middle	2								
HCLR	HY/2011/03		Mid-Flood		IS(M)F9			Middle	2								
HCLR	HY/2011/03	2014-01-22	Mid-Flood	Sunny	IS(M)F9	11:17:48	2.4	Bottom	3	1	15.83	8.01	32.43	101.5	8.25	13.2	9.6
HCLR	HY/2011/03	2014-01-22	Mid-Flood	Sunny	IS(M)F9	11:18:08	2.4	Bottom	3	2	15.82	8.02	32.44	101	8.21	12.5	9.3
HCLR	HY/2011/03	2014-01-22	Mid-Flood	Sunny	IS10	10:52:39	1.0	Surface	1	1	15.92	8.25	32.29	97.4	7.91	11.3	12.9
HCLR	HY/2011/03	2014-01-22	Mid-Flood	Sunny	IS10	10:52:06	1.0	Surface	1	2	15.94	8.24	32.29	97.3	7.9	11.4	11
HCLR	HY/2011/03	2014-01-22	Mid-Flood	Sunny	IS10	10:52:27	5.4	Middle	2	1	15.96	8.25	32.35	96.9	7.86	11.4	12.3
HCLR	HY/2011/03	2014-01-22	Mid-Flood	Sunny	IS10	10:51:56	5.4	Middle	2	2	15.98	8.23	32.37	97	7.87	11.6	13.4
HCLR	HY/2011/03	2014-01-22	Mid-Flood	Sunny	IS10	10:51:47	9.7	Bottom	3	1	15.96	8.23	32.39	97.4	7.9	11.5	14.9
HCLR	HY/2011/03	2014-01-22	Mid-Flood	Sunny	IS10	10:52:20	9.7	Bottom	3	2	15.96	8.24	32.39	97.2	7.89	11.5	13.7
HCLR	HY/2011/03		Mid-Flood		SR3			Surface	1								
HCLR	HY/2011/03		Mid-Flood		SR3			Surface	1								
HCLR	HY/2011/03	2014-01-22	Mid-Flood	Sunny	SR3	11:52:45	0.9	Middle	2	1	15.71	8.11	32.6	104.5	8.5	4.7	6.1
HCLR	HY/2011/03	2014-01-22	Mid-Flood	Sunny	SR3	11:52:37	0.9	Middle	2	2	15.71	8.11	32.6	104.5	8.5	4.7	5.5
HCLR	HY/2011/03		Mid-Flood		SR3			Bottom	3								
HCLR	HY/2011/03		Mid-Flood		SR3			Bottom	3								
HCLR	HY/2011/03	2014-01-22	Mid-Flood	Sunny	SR4	11:07:43	1.0	Surface	1	1	15.87	8.01	32.35	101.1	8.21	8.9	5
HCLR	HY/2011/03	2014-01-22	Mid-Flood	Sunny	SR4	11:08:03	1.0	Surface	1	2	15.91	8.02	32.33	100.2	8.14	8	4.6
HCLR	HY/2011/03		Mid-Flood		SR4			Middle	2								
HCLR	HY/2011/03		Mid-Flood		SR4			Middle	2								
HCLR	HY/2011/03	2014-01-22	Mid-Flood	Sunny	SR4	11:07:34	2.7	Bottom	3	1	15.85	8.01	32.34	101.4	8.25	9.3	4.1
HCLR	HY/2011/03	2014-01-22	Mid-Flood	Sunny	SR4	11:07:51	2.7	Bottom	3	2	15.87	8.01	32.33	100.5	8.17	9	5.7
HCLR	HY/2011/03	2014-01-22	Mid-Flood	Sunny	SR5	11:02:04	1.0	Surface	1	1	15.86	8.25	32.02	97.2	7.92	9.9	10.5
HCLR	HY/2011/03	2014-01-22	Mid-Flood	Sunny	SR5	11:01:44	1.0	Surface	1	2	15.88	8.25	32.02	97.4	7.93	9.5	10.5
HCLR	HY/2011/03		Mid-Flood		SR5			Middle	2								
HCLR	HY/2011/03		Mid-Flood		SR5			Middle	2								
HCLR	HY/2011/03	2014-01-22	Mid-Flood	Sunny	SR5	11:01:52	4.5	Bottom	3	1	15.84	8.25	32.06	97.1	7.91	10	11.4
HCLR	HY/2011/03	2014-01-22	Mid-Flood	Sunny	SR5	11:01:37	4.5	Bottom	3	2	15.83	8.26	32.09	97.3	7.92	9.9	11.3
HCLR	HY/2011/03	2014-01-22	Mid-Flood	Sunny	SR10A	10:01:27	1.0	Surface	1	1	16.37	8.03	32.93	95.7	7.67	1.8	3
HCLR	HY/2011/03	2014-01-22	Mid-Flood	Sunny	SR10A	10:00:49	1.0	Surface	1	2	16.37	8.03	32.91	95.8	7.68	1.8	3.7
HCLR	HY/2011/03	2014-01-22	Mid-Flood	Sunny	SR10A	10:00:37	3.4	Middle	2	1	16.37	8.02	32.92	95.5	7.66	1.8	3
HCLR	HY/2011/03	2014-01-22	Mid-Flood	Sunny	SR10A	10:01:17	3.4	Middle	2	2	16.36	8.03	32.94	95.5	7.66	1.8	3.2
HCLR	HY/2011/03	2014-01-22	Mid-Flood	Sunny	SR10A	10:01:08	5.7	Bottom	3	1	16.36	8.03	32.94	95.5	7.66	2.2	2.8
HCLR	HY/2011/03	2014-01-22	Mid-Flood	Sunny	SR10A	10:00:25	5.7	Bottom	3	2	16.37	8.02	32.92	95.4	7.65	2.1	2.7
HCLR	HY/2011/03	2014-01-22	Mid-Flood	Sunny	SR10B	09:44:13	1.0	Surface	1	1	16.36	7.98	32.8	96.1	7.72	2	4.3
HCLR	HY/2011/03	2014-01-22	Mid-Flood	Sunny	SR10B	09:44:35	1.0	Surface	1	2	16.37	7.99	32.82	96.1	7.71	2	2.7
HCLR	HY/2011/03		Mid-Flood		SR10B			Middle	2								
HCLR	HY/2011/03		Mid-Flood		SR10B			Middle	2								
HCLR	HY/2011/03	2014-01-22	Mid-Flood	Sunny	SR10B	09:44:03	4.7	Bottom	3	1	16.36	7.97	32.79	96.1	7.71	2.3	3.1
HCLR	HY/2011/03	2014-01-22	Mid-Flood	Sunny	SR10B	09:44:22	4.7	Bottom	3	2	16.36	7.98	32.82	95.9	7.7	2.2	5
HCLR	HY/2011/03	2014-01-22	Mid-Flood	Sunny	CS2	12:31:06	1.0	Surface	1	1	16.06	8.26	32.44	96.2	7.79	5.5	7.7
HCLR	HY/2011/03	2014-01-22	Mid-Flood	Sunny	CS2	12:31:47	1.0	Surface	1	2	16.07	8.26	32.45	96.3	7.79	5.4	6.6

Water Quarterly Monitoring Data

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HLR	HY/2011/03	2014-01-22	Mid-Flood	Sunny	CS2	12:31:36	4.2	Middle	2	1	16.04	8.25	32.47	95.9	7.76	5.4	7.2
HLR	HY/2011/03	2014-01-22	Mid-Flood	Sunny	CS2	12:30:56	4.2	Middle	2	2	16.04	8.26	32.47	95.9	7.76	5.7	7.3
HLR	HY/2011/03	2014-01-22	Mid-Flood	Sunny	CS2	12:31:23	7.3	Bottom	3	1	16.04	8.26	32.48	95.9	7.76	5.6	7.1
HLR	HY/2011/03	2014-01-22	Mid-Flood	Sunny	CS2	12:30:33	7.3	Bottom	3	2	16.04	8.26	32.48	96.1	7.78	5.7	9.1
HLR	HY/2011/03	2014-01-22	Mid-Flood	Sunny	CS(M)F5	10:29:10	1.0	Surface	1	1	16.28	8.02	32.9	95.5	7.67	3.7	2.4
HLR	HY/2011/03	2014-01-22	Mid-Flood	Sunny	CS(M)F5	10:28:25	1.0	Surface	1	2	16.28	8.01	32.9	95.7	7.69	4	3.5
HLR	HY/2011/03	2014-01-22	Mid-Flood	Sunny	CS(M)F5	10:28:58	7.4	Middle	2	1	16.28	8.01	32.92	95.2	7.65	5	2.6
HLR	HY/2011/03	2014-01-22	Mid-Flood	Sunny	CS(M)F5	10:28:13	7.4	Middle	2	2	16.28	8	32.92	95.5	7.67	4.7	2.6
HLR	HY/2011/03	2014-01-22	Mid-Flood	Sunny	CS(M)F5	10:28:05	13.8	Bottom	3	1	16.28	8	32.92	95.6	7.68	4	2.5
HLR	HY/2011/03	2014-01-22	Mid-Flood	Sunny	CS(M)F5	10:28:46	13.8	Bottom	3	2	16.28	8.01	32.92	95.2	7.65	4	3.7
HLR	HY/2011/03	2014-01-24	Mid-Ebb	Fine	IS5	10:55:28	1.0	Surface	1	1	15.63	8.09	32.6	106.1	8.65	6.3	4.4
HLR	HY/2011/03	2014-01-24	Mid-Ebb	Fine	IS5	10:55:00	1.0	Surface	1	2	15.64	8.09	32.61	106.3	8.66	6.2	4.8
HLR	HY/2011/03	2014-01-24	Mid-Ebb	Fine	IS5	10:55:18	4.2	Middle	2	1	15.61	8.09	32.62	105.8	8.63	6.3	4.3
HLR	HY/2011/03	2014-01-24	Mid-Ebb	Fine	IS5	10:54:54	4.2	Middle	2	2	15.63	8.09	32.62	106.1	8.65	6.4	5.4
HLR	HY/2011/03	2014-01-24	Mid-Ebb	Fine	IS5	10:54:43	7.3	Bottom	3	1	15.64	8.09	32.62	106	8.64	6.4	4
HLR	HY/2011/03	2014-01-24	Mid-Ebb	Fine	IS5	10:55:09	7.3	Bottom	3	2	15.63	8.09	32.61	106	8.64	6.4	4.7
HLR	HY/2011/03	2014-01-24	Mid-Ebb	Fine	IS(M)F6	11:05:38	1.0	Surface	1	1	15.59	8.14	32.54	109	8.9	9.1	17
HLR	HY/2011/03	2014-01-24	Mid-Ebb	Fine	IS(M)F6	11:05:52	1.0	Surface	1	2	15.58	8.14	32.54	109.3	8.92	9.3	16.7
HLR	HY/2011/03	2014-01-24	Mid-Ebb	Fine	IS(M)F6	11:05:43	2.3	Middle	2	1	15.58	8.14	32.54	109.1	8.91	9.3	15.5
HLR	HY/2011/03	2014-01-24	Mid-Ebb	Fine	IS(M)F6	11:05:31	2.3	Bottom	3	2	15.67	8.14	32.52	108.9	8.89	9.4	17
HLR	HY/2011/03	2014-01-24	Mid-Ebb	Fine	IS7	11:12:30	1.0	Surface	1	1	15.67	8.15	32.52	110	8.97	8.8	4.4
HLR	HY/2011/03	2014-01-24	Mid-Ebb	Fine	IS7	11:12:16	1.0	Surface	1	2	15.66	8.15	32.52	109.5	8.92	9.8	5.8
HLR	HY/2011/03	2014-01-24	Mid-Ebb	Fine	IS7	11:12:21	2.2	Middle	2	1	15.66	8.15	32.52	109.6	8.94	10.2	8.2
HLR	HY/2011/03	2014-01-24	Mid-Ebb	Fine	IS7	11:12:09	2.2	Bottom	3	2	15.63	8.15	32.53	109.1	8.9	11.1	7.1
HLR	HY/2011/03	2014-01-24	Mid-Ebb	Fine	IS8	11:35:01	1.0	Surface	1	1	15.98	8.07	32.49	101.8	8.25	4.5	5.1
HLR	HY/2011/03	2014-01-24	Mid-Ebb	Fine	IS8	11:35:22	1.0	Surface	1	2	15.98	8.07	32.49	101.9	8.25	4.7	4.5
HLR	HY/2011/03	2014-01-24	Mid-Ebb	Fine	IS8	11:35:11	2.6	Middle	2	1	15.97	8.07	32.49	101.7	8.24	4.5	6.1
HLR	HY/2011/03	2014-01-24	Mid-Ebb	Fine	IS8	11:34:51	2.6	Bottom	3	2	15.97	8.07	32.5	101.7	8.25	4.5	3.7
HLR	HY/2011/03	2014-01-24	Mid-Ebb	Fine	IS(M)F9	11:18:26	1.0	Surface	1	1	15.64	8.15	32.53	108.3	8.84	7.8	9.5
HLR	HY/2011/03	2014-01-24	Mid-Ebb	Fine	IS(M)F9	11:18:41	1.0	Surface	1	2	15.63	8.15	32.54	108.5	8.85	7	9.5
HLR	HY/2011/03	2014-01-24	Mid-Ebb	Fine	IS(M)F9	11:18:34	2.5	Middle	2	1	15.64	8.15	32.54	108.4	8.84	9.2	9.4
HLR	HY/2011/03	2014-01-24	Mid-Ebb	Fine	IS(M)F9	11:18:16	2.5	Bottom	3	2	15.63	8.15	32.54	107.9	8.8	8.9	10.8
HLR	HY/2011/03	2014-01-24	Mid-Ebb	Fine	IS10	12:04:13	1.0	Surface	1	1	15.96	8.28	32.34	97.9	7.94	6.6	2.4
HLR	HY/2011/03	2014-01-24	Mid-Ebb	Fine	IS10	12:04:47	1.0	Surface	1	2	15.99	8.28	32.33	98	7.94	6.4	2.5
HLR	HY/2011/03	2014-01-24	Mid-Ebb	Fine	IS10	12:04:37	5.2	Middle	2	1	15.89	8.28	32.38	97.5	7.92	6.4	2.8
HLR	HY/2011/03	2014-01-24	Mid-Ebb	Fine	IS10	12:04:05	5.2	Middle	2	2	15.88	8.28	32.39	97.5	7.92	6.5	2.6
HLR	HY/2011/03	2014-01-24	Mid-Ebb	Fine	IS10	12:03:56	9.3	Bottom	3	1	15.91	8.28	32.37	97.5	7.92	6.7	2.1
HLR	HY/2011/03	2014-01-24	Mid-Ebb	Fine	IS10	12:04:28	9.3	Bottom	3	2	15.89	8.28	32.39	97.4	7.91	6.8	3.2
HLR	HY/2011/03	2014-01-24	Mid-Ebb	Fine	SR3	10:39:02	0.9	Surface	1	1	15.66	8.09	32.64	103.9	8.47	6.5	3.6
HLR	HY/2011/03	2014-01-24	Mid-Ebb	Fine	SR3	10:38:51	0.9	Middle	2	2	15.65	8.1	32.64	102.5	8.36	6.5	5.4
HLR	HY/2011/03	2014-01-24	Mid-Ebb	Fine	SR3	11:28:39	1.0	Bottom	3	1	16.05	8.09	32.45	101.3	8.2	7.5	3.9
HLR	HY/2011/03	2014-01-24	Mid-Ebb	Fine	SR4	11:28:57	1.0	Surface	1	2	16.04	8.09	32.46	101.3	8.2	7.7	3.6
HLR	HY/2011/03	2014-01-24	Mid-Ebb	Fine	SR4	11:28:30	2.6	Middle	2	1	16.05	8.09	32.46	101.1	8.18	8.1	5.7
HLR	HY/2011/03	2014-01-24	Mid-Ebb	Fine	SR4	11:28:48	2.6	Bottom	3	1	15.97	8.08	32.47	101.2	8.19	8.3	4
HLR	HY/2011/03	2014-01-24	Mid-Ebb	Fine	SR5	11:53:02	1.0	Surface	1	1	15.97	8.29	32.32	98.3	7.98	2.2	3.6
HLR	HY/2011/03	2014-01-24	Mid-Ebb	Fine	SR5	11:53:23	1.0	Surface	1	2	15.98	8.28	32.32	98.3	7.98	2.3	2.4
HLR	HY/2011/03	2014-01-24	Mid-Ebb	Fine	SR5	11:53:23	1.0	Middle	2	1	15.98	8.28	32.32	98.3	7.98	2.3	2.4
HLR	HY/2011/03	2014-01-24	Mid-Ebb	Fine	SR5	11:53:23	1.0	Middle	2	2	15.98	8.28	32.32	98.3	7.98	2.3	2.4

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L	
HCLR	HY/2011/03	2014-01-24	Mid-Ebb	Fine	SR5	11:52:50	3.7	Bottom	3	1	15.95	8.29	32.34	98.4	7.98	2.3	4.3	
HCLR	HY/2011/03	2014-01-24	Mid-Ebb	Fine	SR5	11:53:13	3.7	Bottom	3	2	15.97	8.28	32.33	98.3	7.98	2.4	2.3	
HCLR	HY/2011/03	2014-01-24	Mid-Ebb	Fine	SR10A	12:44:18	1.0	Surface	1	1	16.34	8.06	32.94	97	7.79	1.9	2.7	
HCLR	HY/2011/03	2014-01-24	Mid-Ebb	Fine	SR10A	12:43:31	1.0	Surface	1	2	16.34	8.06	32.94	97.1	7.79	1.9	2.3	
HCLR	HY/2011/03	2014-01-24	Mid-Ebb	Fine	SR10A	12:43:17	3.4	Middle	2	1	16.33	8.06	32.97	97	7.78	2	3.3	
HCLR	HY/2011/03	2014-01-24	Mid-Ebb	Fine	SR10A	12:44:08	3.4	Middle	2	2	16.33	8.06	32.96	96.8	7.77	2	3.6	
HCLR	HY/2011/03	2014-01-24	Mid-Ebb	Fine	SR10A	12:43:05	5.8	Bottom	3	1	16.33	8.06	32.97	96.8	7.77	2.1	4	
HCLR	HY/2011/03	2014-01-24	Mid-Ebb	Fine	SR10A	12:43:58	5.8	Bottom	3	2	16.33	8.06	32.96	96.7	7.76	2	3.1	
HCLR	HY/2011/03	2014-01-24	Mid-Ebb	Fine	SR10B	12:57:06	1.0	Surface	1	1	16.35	8.07	32.94	97.1	7.79	2.1	2.3	
HCLR	HY/2011/03	2014-01-24	Mid-Ebb	Fine	SR10B	12:56:44	1.0	Surface	1	2	16.35	8.07	32.94	97.1	7.79	2.2	2.8	
HCLR	HY/2011/03	2014-01-24	Mid-Ebb	Fine	SR10B	12:56:44	1.0	Middle	2	1	16.35	8.07	32.94	97.1	7.79	2.2	2.8	
HCLR	HY/2011/03	2014-01-24	Mid-Ebb	Fine	SR10B	12:56:35	4.7	Middle	2	2	16.35	8.07	32.95	96.9	7.77	2.2	2.6	
HCLR	HY/2011/03	2014-01-24	Mid-Ebb	Fine	SR10B	12:56:55	4.7	Bottom	3	1	16.35	8.07	32.94	97	7.78	2.1	3.4	
HCLR	HY/2011/03	2014-01-24	Mid-Ebb	Fine	SR10B	12:56:55	4.7	Bottom	3	2	16.35	8.07	32.94	97	7.78	2.1	3.4	
HCLR	HY/2011/03	2014-01-24	Mid-Ebb	Fine	CS2	10:42:05	1.0	Surface	1	1	15.98	8.29	32.04	97.5	7.92	2.9	3.7	
HCLR	HY/2011/03	2014-01-24	Mid-Ebb	Fine	CS2	10:41:27	1.0	Surface	1	2	15.98	8.3	32.13	97.6	7.92	2.8	3.9	
HCLR	HY/2011/03	2014-01-24	Mid-Ebb	Fine	CS2	10:41:50	3.8	Middle	2	1	15.96	8.29	32.1	97.3	7.9	4.4	3.1	
HCLR	HY/2011/03	2014-01-24	Mid-Ebb	Fine	CS2	10:41:14	3.8	Middle	2	2	15.95	8.31	32.2	97.3	7.9	4.3	2.4	
HCLR	HY/2011/03	2014-01-24	Mid-Ebb	Fine	CS2	10:41:00	6.6	Bottom	3	1	15.95	8.32	32.28	97.3	7.9	4.4	3.4	
HCLR	HY/2011/03	2014-01-24	Mid-Ebb	Fine	CS2	10:41:39	6.6	Bottom	3	2	15.96	8.3	32.12	97.2	7.9	4.5	2.3	
HCLR	HY/2011/03	2014-01-24	Mid-Ebb	Fine	CS(M)F5	12:09:58	1.0	Surface	1	1	16.2	8.07	32.66	98.1	7.91	3.6	6.9	
HCLR	HY/2011/03	2014-01-24	Mid-Ebb	Fine	CS(M)F5	12:09:18	1.0	Surface	1	2	16.2	8.06	32.65	98.2	7.92	3.2	6.1	
HCLR	HY/2011/03	2014-01-24	Mid-Ebb	Fine	CS(M)F5	12:09:05	6.6	Middle	2	1	16.15	8.06	32.75	97.5	7.87	3.6	6.9	
HCLR	HY/2011/03	2014-01-24	Mid-Ebb	Fine	CS(M)F5	12:09:46	6.6	Middle	2	2	16.15	8.06	32.76	97.5	7.86	4	5.6	
HCLR	HY/2011/03	2014-01-24	Mid-Ebb	Fine	CS(M)F5	12:08:53	12.2	Bottom	3	1	16.15	8.06	32.74	97.8	7.89	3.4	7.2	
HCLR	HY/2011/03	2014-01-24	Mid-Ebb	Fine	CS(M)F5	12:09:36	12.2	Bottom	3	2	16.15	8.06	32.76	97.8	7.89	3.2	5.8	
HCLR	HY/2011/03	2014-01-24	Mid-Flood	Fine	IS5	06:10:26	1.0	Surface	1	1	15.61	8.15	32.73	102.1	8.32	4.6	7.2	
HCLR	HY/2011/03	2014-01-24	Mid-Flood	Fine	IS5	06:10:56	1.0	Surface	1	2	15.61	8.15	32.74	102.1	8.33	4.7	6.9	
HCLR	HY/2011/03	2014-01-24	Mid-Flood	Fine	IS5	06:10:46	4.3	Middle	2	1	15.61	8.15	32.75	101.9	8.31	4.7	6.3	
HCLR	HY/2011/03	2014-01-24	Mid-Flood	Fine	IS5	06:10:12	4.3	Middle	2	2	15.6	8.15	32.75	101.9	8.31	4.7	8.3	
HCLR	HY/2011/03	2014-01-24	Mid-Flood	Fine	IS5	06:10:37	7.5	Bottom	3	1	15.6	8.15	32.75	101.9	8.31	4.7	6.3	
HCLR	HY/2011/03	2014-01-24	Mid-Flood	Fine	IS5	06:10:01	2	7.5	Bottom	3	2	15.61	8.15	32.76	101.9	8.3	4.8	8.2
HCLR	HY/2011/03	2014-01-24	Mid-Flood	Fine	IS(M)F6	05:59:44	1.0	Surface	1	1	15.43	8.14	32.48	105.2	8.62	16.5	9.9	
HCLR	HY/2011/03	2014-01-24	Mid-Flood	Fine	IS(M)F6	05:59:28	1.0	Surface	1	2	15.42	8.14	32.48	105.3	8.63	16	10.8	
HCLR	HY/2011/03	2014-01-24	Mid-Flood	Fine	IS(M)F6	05:59:34	2.2	Middle	2	1	15.42	8.14	32.49	105.1	8.61	16.4	9	
HCLR	HY/2011/03	2014-01-24	Mid-Flood	Fine	IS(M)F6	05:59:16	2.2	Bottom	3	1	15.43	8.14	32.49	105.2	8.62	17.8	10	
HCLR	HY/2011/03	2014-01-24	Mid-Flood	Fine	IS7	05:51:59	1.0	Surface	1	1	15.48	8.15	32.53	106.2	8.69	7.2	7.1	
HCLR	HY/2011/03	2014-01-24	Mid-Flood	Fine	IS7	05:51:39	1.0	Surface	1	2	15.48	8.15	32.53	106.1	8.68	7.4	7.4	
HCLR	HY/2011/03	2014-01-24	Mid-Flood	Fine	IS7	05:51:28	2.2	Middle	2	1	15.48	8.15	32.53	105.7	8.65	8.1	8.2	
HCLR	HY/2011/03	2014-01-24	Mid-Flood	Fine	IS7	05:51:50	2.2	Bottom	3	1	15.48	8.15	32.54	106.2	8.69	7.3	7	
HCLR	HY/2011/03	2014-01-24	Mid-Flood	Fine	IS8	05:28:22	1.0	Surface	1	1	15.41	8.13	32.51	105.6	8.65	4.6	4.9	
HCLR	HY/2011/03	2014-01-24	Mid-Flood	Fine	IS8	05:28:02	1.0	Surface	1	2	15.41	8.13	32.51	105.6	8.65	4.8	3.5	
HCLR	HY/2011/03	2014-01-24	Mid-Flood	Fine	IS8	05:28:14	2.6	Middle	2	1	15.4	8.13	32.53	105.4	8.64	4.8	4.6	
HCLR	HY/2011/03	2014-01-24	Mid-Flood	Fine	IS8	05:27:50	2.6	Bottom	3	2	15.4	8.13	32.54	105.4	8.64	5.2	4.8	
HCLR	HY/2011/03	2014-01-24	Mid-Flood	Fine	IS(M)F9	05:44:53	1.0	Surface	1	1	15.41	8.14	32.54	105.2	8.62	9.1	12.8	
HCLR	HY/2011/03	2014-01-24	Mid-Flood	Fine	IS(M)F9	05:45:09	1.0	Surface	1	2	15.41	8.14	32.53	105.4	8.64	8.7	12.5	
HCLR	HY/2011/03	2014-01-24	Mid-Flood	Fine	IS(M)F9	05:44:44	2.3	Middle	2	1	15.41	8.14	32.54	105	8.6	9.3	13.6	
HCLR	HY/2011/03	2014-01-24	Mid-Flood	Fine	IS(M)F9	05:45:01	2.3	Bottom	3	1	15.41	8.14	32.54	105.3	8.63	8.9	13.1	
HCLR	HY/2011/03	2014-01-24	Mid-Flood	Fine	IS10	05:25:42	1.0	Surface	1	1	15.82	8.25	32.25	96.5	7.85	2.6	4.2	
HCLR	HY/2011/03	2014-01-24	Mid-Flood	Fine	IS10	05:25:04	1.0	Surface	1	2	15.83	8.25	32.25	96.4	7.85	2.7	3.1	
HCLR	HY/2011/03	2014-01-24	Mid-Flood	Fine	IS10	05:24:51	5.4	Middle	2	1	15.81	8.25	32.3	96.1	7.83	2.7	4	
HCLR	HY/2011/03	2014-01-24	Mid-Flood	Fine	IS10	05:25:30	5.4	Middle	2	2	15.79	8.25	32.31	96.1	7.82	2.6	4.9	
HCLR	HY/2011/03	2014-01-24	Mid-Flood	Fine	IS10	05:25:20	9.7	Bottom	3	1	15.78	8.25	32.32	96	7.82	2.7	3.5	
HCLR	HY/2011/03	2014-01-24	Mid-Flood	Fine	IS10	05:24:42	9.7	Bottom	3	2	15.8	8.25	32.3	96	7.81	2.7	3.3	

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HCLR	HY/2011/03		Mid-Flood		SR3			Surface	1	1							
HCLR	HY/2011/03		Mid-Flood		SR3			Surface	1	2							
HCLR	HY/2011/03	2014-01-24	Mid-Flood	Fine	SR3	06:20:50	0.9	Middle	2	1	15.61	8.15	32.73	102.3	8.34	4.8	7.7
HCLR	HY/2011/03	2014-01-24	Mid-Flood	Fine	SR3	06:21:01	0.9	Middle	2	2	15.61	8.15	32.73	102.3	8.34	4.5	8.5
HCLR	HY/2011/03		Mid-Flood		SR3			Bottom	3	1							
HCLR	HY/2011/03		Mid-Flood		SR3			Bottom	3	2							
HCLR	HY/2011/03	2014-01-24	Mid-Flood	Fine	SR4	05:36:44	1.0	Surface	1	1	15.39	8.13	32.52	105.6	8.65	4.7	7.4
HCLR	HY/2011/03	2014-01-24	Mid-Flood	Fine	SR4	05:36:28	1.0	Surface	1	2	15.39	8.13	32.53	105.6	8.66	4.8	7.5
HCLR	HY/2011/03		Mid-Flood		SR4			Middle	2	1							
HCLR	HY/2011/03		Mid-Flood		SR4			Middle	2	2							
HCLR	HY/2011/03	2014-01-24	Mid-Flood	Fine	SR4	05:36:20	2.3	Bottom	3	1	15.39	8.13	32.54	105.6	8.66	4.9	6.7
HCLR	HY/2011/03	2014-01-24	Mid-Flood	Fine	SR4	05:36:36	2.3	Bottom	3	2	15.39	8.13	32.54	105.6	8.65	4.8	8.1
HCLR	HY/2011/03	2014-01-24	Mid-Flood	Fine	SR5	05:35:52	1.0	Surface	1	1	15.81	8.25	32.27	96.4	7.85	2.5	3.4
HCLR	HY/2011/03	2014-01-24	Mid-Flood	Fine	SR5	05:36:09	1.0	Surface	1	2	15.81	8.25	32.27	96.5	7.85	2.6	3
HCLR	HY/2011/03		Mid-Flood		SR5			Middle	2	1							
HCLR	HY/2011/03		Mid-Flood		SR5			Middle	2	2							
HCLR	HY/2011/03	2014-01-24	Mid-Flood	Fine	SR5	05:35:44	3.7	Bottom	3	1	15.8	8.25	32.29	96.3	7.84	2.6	4.9
HCLR	HY/2011/03	2014-01-24	Mid-Flood	Fine	SR5	05:36:00	3.7	Bottom	3	2	15.8	8.25	32.29	96.4	7.85	2.6	3.5
HCLR	HY/2011/03	2014-01-24	Mid-Flood	Fine	SR10A	04:22:19	1.0	Surface	1	1	16.27	8.04	32.89	97.1	7.81	1.6	4.1
HCLR	HY/2011/03	2014-01-24	Mid-Flood	Fine	SR10A	04:22:58	1.0	Surface	1	2	16.27	8.05	32.89	97	7.8	1.7	3.2
HCLR	HY/2011/03	2014-01-24	Mid-Flood	Fine	SR10A	04:22:10	3.4	Middle	2	1	16.27	8.04	32.9	96.8	7.78	1.8	3.1
HCLR	HY/2011/03	2014-01-24	Mid-Flood	Fine	SR10A	04:22:46	3.4	Middle	2	2	16.27	8.05	32.91	96.8	7.78	1.9	2.5
HCLR	HY/2011/03	2014-01-24	Mid-Flood	Fine	SR10A	04:22:34	5.7	Bottom	3	1	16.28	8.05	32.92	96.9	7.79	2.1	2.4
HCLR	HY/2011/03	2014-01-24	Mid-Flood	Fine	SR10A	04:22:00	5.7	Bottom	3	2	16.28	8.04	32.92	97	7.79	2	2.7
HCLR	HY/2011/03	2014-01-24	Mid-Flood	Fine	SR10B	04:08:57	1.0	Surface	1	1	16.29	8.02	32.88	96.9	7.79	1.8	3.8
HCLR	HY/2011/03	2014-01-24	Mid-Flood	Fine	SR10B	04:08:32	1.0	Surface	1	2	16.29	8.01	32.89	97.2	7.81	1.9	3.5
HCLR	HY/2011/03		Mid-Flood		SR10B			Middle	2	1							
HCLR	HY/2011/03		Mid-Flood		SR10B			Middle	2	2							
HCLR	HY/2011/03	2014-01-24	Mid-Flood	Fine	SR10B	04:08:24	4.6	Bottom	3	1	16.29	8.01	32.9	97.1	7.8	2	2.4
HCLR	HY/2011/03	2014-01-24	Mid-Flood	Fine	SR10B	04:08:47	4.6	Bottom	3	2	16.29	8.02	32.91	96.9	7.78	1.9	2.1
HCLR	HY/2011/03	2014-01-24	Mid-Flood	Fine	CS2	06:58:29	1.0	Surface	1	1	15.91	8.22	31.41	95.9	7.84	2.1	3.8
HCLR	HY/2011/03	2014-01-24	Mid-Flood	Fine	CS2	06:59:03	1.0	Surface	1	2	15.91	8.22	31.49	95.9	7.83	2.2	4.9
HCLR	HY/2011/03	2014-01-24	Mid-Flood	Fine	CS2	06:58:50	4.1	Middle	2	1	15.92	8.24	31.86	95.7	7.79	2.2	4.4
HCLR	HY/2011/03	2014-01-24	Mid-Flood	Fine	CS2	06:58:17	4.1	Middle	2	2	15.91	8.24	31.93	95.7	7.79	2.1	4.2
HCLR	HY/2011/03	2014-01-24	Mid-Flood	Fine	CS2	06:58:07	7.1	Bottom	3	1	15.87	8.25	32.42	95.5	7.76	2.3	5.8
HCLR	HY/2011/03	2014-01-24	Mid-Flood	Fine	CS2	06:58:40	7.1	Bottom	3	2	15.9	8.23	32.11	95.6	7.77	2.4	5.7
HCLR	HY/2011/03	2014-01-24	Mid-Flood	Fine	CS(M)FS	04:57:00	1.0	Surface	1	1	15.95	8.05	32.55	99.2	8.04	7.2	2.6
HCLR	HY/2011/03	2014-01-24	Mid-Flood	Fine	CS(M)FS	04:56:18	1.0	Surface	1	2	15.95	8.04	32.54	99.2	8.04	7.3	2.2
HCLR	HY/2011/03	2014-01-24	Mid-Flood	Fine	CS(M)FS	04:56:02	6.7	Middle	2	1	16	8.04	32.58	98.7	7.99	6.9	3.5
HCLR	HY/2011/03	2014-01-24	Mid-Flood	Fine	CS(M)FS	04:56:46	6.7	Middle	2	2	15.95	8.05	32.57	98.7	8	7.4	2.2
HCLR	HY/2011/03	2014-01-24	Mid-Flood	Fine	CS(M)FS	04:56:33	12.4	Bottom	3	1	15.98	8.04	32.6	98.8	8.01	7.8	3.9
HCLR	HY/2011/03	2014-01-24	Mid-Flood	Fine	CS(M)FS	04:55:54	12.4	Bottom	3	2	16	8.04	32.61	99	8.01	7	3.5
HCLR	HY/2011/03	2014-01-27	Mid-Ebb	Sunny	IS5	10:54:46	1.0	Surface	1	1	17.19	8.11	32.44	111.5	8.83	4.4	5
HCLR	HY/2011/03	2014-01-27	Mid-Ebb	Sunny	IS5	10:54:13	1.0	Surface	1	2	17.19	8.11	32.44	111.5	8.83	4.6	6.1
HCLR	HY/2011/03	2014-01-27	Mid-Ebb	Sunny	IS5	10:54:03	4.4	Middle	2	1	17.17	8.11	32.45	111.2	8.8	4.7	7.3
HCLR	HY/2011/03	2014-01-27	Mid-Ebb	Sunny	IS5	10:54:35	4.4	Middle	2	2	17.16	8.11	32.45	111.1	8.8	4.7	6.4
HCLR	HY/2011/03	2014-01-27	Mid-Ebb	Sunny	IS5	10:54:25	7.8	Bottom	3	1	17.17	8.11	32.45	111.1	8.8	4.8	7.2
HCLR	HY/2011/03	2014-01-27	Mid-Ebb	Sunny	IS5	10:53:51	7.8	Bottom	3	2	17.17	8.11	32.45	111	8.79	4.8	5.8
HCLR	HY/2011/03	2014-01-27	Mid-Ebb	Sunny	IS(M)F6	10:46:46	1.0	Surface	1	1	16.75	8.09	32.23	110.2	8.81	5.5	6.7
HCLR	HY/2011/03	2014-01-27	Mid-Ebb	Sunny	IS(M)F6	10:47:00	1.0	Surface	1	2	16.73	8.1	32.23	110.4	8.83	5.5	5.8
HCLR	HY/2011/03		Mid-Ebb		IS(M)F6			Middle	2	1							
HCLR	HY/2011/03		Mid-Ebb		IS(M)F6			Middle	2	2							
HCLR	HY/2011/03	2014-01-27	Mid-Ebb	Sunny	IS(M)F6	10:46:53	2.1	Bottom	3	1	16.74	8.1	32.24	110.3	8.82	5.9	7.4
HCLR	HY/2011/03	2014-01-27	Mid-Ebb	Sunny	IS(M)F6	10:46:38	2.1	Bottom	3	2	16.75	8.09	32.27	110.2	8.81	5.9	5.1
HCLR	HY/2011/03	2014-01-27	Mid-Ebb	Sunny	IS7	10:40:22	1.0	Surface	1	1	16.8	8.1	32.24	110.5	8.82	4.6	6.2
HCLR	HY/2011/03	2014-01-27	Mid-Ebb	Sunny	IS7	10:40:41	1.0	Surface	1	2	16.8	8.1	32.24	110.8	8.85	4.5	5.8
HCLR	HY/2011/03		Mid-Ebb		IS7			Middle	2	1							
HCLR	HY/2011/03		Mid-Ebb		IS7			Middle	2	2							
HCLR	HY/2011/03	2014-01-27	Mid-Ebb	Sunny	IS7	10:40:32	2.1	Bottom	3	1	16.8	8.1	32.24	110.6	8.83	4.7	7.7
HCLR	HY/2011/03	2014-01-27	Mid-Ebb	Sunny	IS7	10:40:13	2.1	Bottom	3	2	16.8	8.1	32.24	110.3	8.81	4.7	7.2
HCLR	HY/2011/03	2014-01-27	Mid-Ebb	Sunny	IS8	10:15:46	1.0	Surface	1	1	16.48	8.03	32.22	103.6	8.33	2.7	4.4
HCLR	HY/2011/03	2014-01-27	Mid-Ebb	Sunny	IS8	10:16:03	1.0	Surface	1	2	16.48	8.03	32.22	103.5	8.32	2.8	3.2

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HCLR	HY/2011/03		Mid-Ebb		IS8			Middle	2	1							
HCLR	HY/2011/03		Mid-Ebb		IS8			Middle	2	2							
HCLR	HY/2011/03	2014-01-27	Mid-Ebb	Sunny	IS8	10:15:55	2.9	Bottom	3	1	16.48	8.03	32.22	103.4	8.31	2.7	4
HCLR	HY/2011/03	2014-01-27	Mid-Ebb	Sunny	IS8	10:15:36	2.9	Bottom	3	2	16.48	8.03	32.22	103.4	8.31	2.6	3.8
HCLR	HY/2011/03	2014-01-27	Mid-Ebb	Sunny	IS(M)F9	10:34:24	1.0	Surface	1	1	16.45	8.04	32.3	104.4	8.39	3.5	5.3
HCLR	HY/2011/03	2014-01-27	Mid-Ebb	Sunny	IS(M)F9	10:33:56	1.0	Surface	1	2	16.43	8.04	32.3	104.5	8.4	3.5	4.5
HCLR	HY/2011/03		Mid-Ebb		IS(M)F9			Middle	2	1							
HCLR	HY/2011/03		Mid-Ebb		IS(M)F9			Middle	2	2							
HCLR	HY/2011/03	2014-01-27	Mid-Ebb	Sunny	IS(M)F9	10:33:46	2.7	Bottom	3	1	16.43	8.03	32.31	104.4	8.4	3.4	5.6
HCLR	HY/2011/03	2014-01-27	Mid-Ebb	Sunny	IS(M)F9	10:34:12	2.7	Bottom	3	2	16.43	8.04	32.31	104.3	8.38	3.4	5.5
HCLR	HY/2011/03	2014-01-27	Mid-Ebb	Sunny	IS10	09:56:21	1.0	Surface	1	1	16.66	8.27	31.9	101.6	8.15	3.7	3.6
HCLR	HY/2011/03	2014-01-27	Mid-Ebb	Sunny	IS10	09:55:51	1.0	Surface	1	2	16.69	8.28	31.88	101.7	8.16	3.8	3.8
HCLR	HY/2011/03	2014-01-27	Mid-Ebb	Sunny	IS10	09:56:13	5.3	Middle	2	1	16.58	8.26	32.01	101.1	8.12	3.8	4.3
HCLR	HY/2011/03	2014-01-27	Mid-Ebb	Sunny	IS10	09:55:40	5.3	Middle	2	2	16.58	8.26	32.01	101.7	8.09	4.1	2.6
HCLR	HY/2011/03	2014-01-27	Mid-Ebb	Sunny	IS10	09:56:02	9.6	Bottom	3	1	16.62	8.27	32.02	101.7	8.17	3.8	5.7
HCLR	HY/2011/03	2014-01-27	Mid-Ebb	Sunny	IS10	09:55:26	9.6	Bottom	3	2	16.59	8.26	32.04	101.1	8.12	4.1	5.5
HCLR	HY/2011/03		Mid-Ebb		SR3			Surface	1	1							
HCLR	HY/2011/03		Mid-Ebb		SR3			Surface	1	2							
HCLR	HY/2011/03	2014-01-27	Mid-Ebb	Sunny	SR3	11:01:38	0.7	Middle	2	1	17.23	8.12	32.44	112	8.86	4.2	6.4
HCLR	HY/2011/03	2014-01-27	Mid-Ebb	Sunny	SR3	11:01:49	0.7	Middle	2	2	17.22	8.12	32.44	111.9	8.86	4.2	5.4
HCLR	HY/2011/03		Mid-Ebb		SR3			Bottom	3	1							
HCLR	HY/2011/03		Mid-Ebb		SR3			Bottom	3	2							
HCLR	HY/2011/03	2014-01-27	Mid-Ebb	Sunny	SR4	10:22:24	1.0	Surface	1	1	16.67	8.07	32.26	108.1	8.65	2	3.7
HCLR	HY/2011/03	2014-01-27	Mid-Ebb	Sunny	SR4	10:22:41	1.0	Surface	1	2	16.66	8.07	32.27	108	8.64	1.9	3.3
HCLR	HY/2011/03		Mid-Ebb		SR4			Middle	2	1							
HCLR	HY/2011/03		Mid-Ebb		SR4			Middle	2	2							
HCLR	HY/2011/03	2014-01-27	Mid-Ebb	Sunny	SR4	10:22:32	2.8	Bottom	3	1	16.65	8.07	32.28	107.9	8.64	2	3.3
HCLR	HY/2011/03	2014-01-27	Mid-Ebb	Sunny	SR4	10:22:14	2.8	Bottom	3	2	16.65	8.06	32.29	107.7	8.63	2	3.1
HCLR	HY/2011/03	2014-01-27	Mid-Ebb	Sunny	SR5	10:06:31	1.0	Surface	1	1	16.72	8.28	31.96	102.2	8.19	4.5	3
HCLR	HY/2011/03	2014-01-27	Mid-Ebb	Sunny	SR5	10:05:58	1.0	Surface	1	2	16.72	8.28	31.96	102.2	8.19	4.5	4.1
HCLR	HY/2011/03		Mid-Ebb		SR5			Middle	2	1							
HCLR	HY/2011/03		Mid-Ebb		SR5			Middle	2	2							
HCLR	HY/2011/03	2014-01-27	Mid-Ebb	Sunny	SR5	10:05:44	4.0	Bottom	3	1	16.71	8.28	31.99	101.7	8.15	4.7	3.4
HCLR	HY/2011/03	2014-01-27	Mid-Ebb	Sunny	SR5	10:06:17	4.0	Bottom	3	2	16.7	8.28	32.01	101.9	8.17	4.7	3.8
HCLR	HY/2011/03	2014-01-27	Mid-Ebb	Sunny	SR10A	09:09:25	1.0	Surface	1	1	16.64	8.03	32.67	99.5	7.95	1.9	2.4
HCLR	HY/2011/03	2014-01-27	Mid-Ebb	Sunny	SR10A	09:10:08	1.0	Surface	1	2	16.64	8.03	32.66	99.3	7.94	1.8	2.6
HCLR	HY/2011/03	2014-01-27	Mid-Ebb	Sunny	SR10A	09:09:15	3.3	Middle	2	1	16.61	8.02	32.68	99.2	7.93	1.9	2.5
HCLR	HY/2011/03	2014-01-27	Mid-Ebb	Sunny	SR10A	09:09:56	3.3	Middle	2	2	16.64	8.03	32.7	99.2	7.93	1.8	2
HCLR	HY/2011/03	2014-01-27	Mid-Ebb	Sunny	SR10A	09:09:43	5.1	Bottom	3	1	16.63	8.03	32.7	99.2	7.92	1.9	2.2
HCLR	HY/2011/03	2014-01-27	Mid-Ebb	Sunny	SR10A	09:08:59	5.5	Bottom	3	2	16.63	8.02	32.68	99.2	7.92	1.9	2.3
HCLR	HY/2011/03	2014-01-27	Mid-Ebb	Sunny	SR10B	09:03:00	1.0	Surface	1	1	16.63	8.02	32.62	100.9	8.07	2	2.1
HCLR	HY/2011/03	2014-01-27	Mid-Ebb	Sunny	SR10B	09:02:42	1.0	Surface	1	2	16.63	8.02	32.6	101.1	8.08	2	3.2
HCLR	HY/2011/03		Mid-Ebb		SR10B			Middle	2	1							
HCLR	HY/2011/03		Mid-Ebb		SR10B			Middle	2	2							
HCLR	HY/2011/03	2014-01-27	Mid-Ebb	Sunny	SR10B	09:02:28	4.2	Bottom	3	1	16.63	8.02	32.6	100.8	8.06	2.1	2.2
HCLR	HY/2011/03	2014-01-27	Mid-Ebb	Sunny	SR10B	09:02:50	4.2	Bottom	3	2	16.63	8.02	32.62	100.8	8.06	2	2.9
HCLR	HY/2011/03	2014-01-27	Mid-Ebb	Sunny	C52	11:18:52	1.0	Surface	1	1	16.65	8.29	31.71	102.7	8.25	4.3	3
HCLR	HY/2011/03	2014-01-27	Mid-Ebb	Sunny	C52	11:20:16	1.0	Surface	1	2	16.66	8.29	31.68	102.8	8.26	4	2.6
HCLR	HY/2011/03	2014-01-27	Mid-Ebb	Sunny	C52	11:18:41	3.4	Middle	2	1	16.62	8.29	31.9	102	8.19	6.5	2.8
HCLR	HY/2011/03	2014-01-27	Mid-Ebb	Sunny	C52	11:19:37	5.7	Bottom	3	2	16.62	8.29	31.92	102.1	8.2	6.3	3.8
HCLR	HY/2011/03	2014-01-27	Mid-Ebb	Sunny	C52	11:19:15	5.7	Bottom	3	1	16.6	8.28	32	101.9	8.18	7.7	2.7
HCLR	HY/2011/03	2014-01-27	Mid-Ebb	Sunny	C52	11:18:28	5.7	Bottom	3	2	16.6	8.28	32	101.9	8.18	7.9	2.5
HCLR	HY/2011/03	2014-01-27	Mid-Ebb	Sunny	CS(M)F5	09:42:52	1.0	Surface	1	1	16.59	8.05	32.56	101.6	8.13	2	3.9
HCLR	HY/2011/03	2014-01-27	Mid-Ebb	Sunny	CS(M)F5	09:42:11	1.0	Surface	1	2	16.59	8.04	32.56	101.7	8.14	2.1	2.9
HCLR	HY/2011/03	2014-01-27	Mid-Ebb	Sunny	CS(M)F5	09:42:39	6.5	Middle	2	1	16.62	8.04	32.74	100.9	8.06	2.1	2.7
HCLR	HY/2011/03	2014-01-27	Mid-Ebb	Sunny	CS(M)F5	09:41:57	6.5	Middle	2	2	16.61	8.03	32.73	100.7	8.04	2.2	3.3
HCLR	HY/2011/03	2014-01-27	Mid-Ebb	Sunny	CS(M)F5	09:41:37	11.9	Bottom	3	1	16.62	8.03	32.77	101	8.07	2.2	2.6
HCLR	HY/2011/03	2014-01-27	Mid-Ebb	Sunny	CS(M)F5	14:09:29	11.9	Bottom	3	2	16.62	8.04	32.76	101.3	8.1	2.2	3.1
HCLR	HY/2011/03	2014-01-27	Mid-Flood	Sunny	IS5	14:09:06	1.0	Surface	1	1	17.34	8.18	32.57	115.1	9.08	3.6	3.8
HCLR	HY/2011/03	2014-01-27	Mid-Flood	Sunny	IS5	14:08:35	1.0	Surface	1	2	17.37	8.18	32.56	115.6	9.11	3.5	4.6
HCLR	HY/2011/03	2014-01-27	Mid-Flood	Sunny	IS5	14:08:58	4.4	Middle	2	1	17.3	8.18	32.57	114.5	9.04	3.8	5.9
HCLR	HY/2011/03	2014-01-27	Mid-Flood	Sunny	IS5	14:08:19	4.4	Middle	2	2	17.31	8.18	32.58	114.2	9.01	3.8	4.5

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HCLR	HY/2011/03	2014-01-27	Mid-Flood	Sunny	IS5	14:08:46	7.7	Bottom	3	1	17.28	8.17	32.55	115	9.08	3.9	5.4
HCLR	HY/2011/03	2014-01-27	Mid-Flood	Sunny	IS5	14:08:08	7.7	Bottom	3	2	17.24	8.17	32.57	114.6	9.06	4	4.8
HCLR	HY/2011/03	2014-01-27	Mid-Flood	Sunny	IS(M)J6	14:16:30	1.0	Surface	1	1	16.88	8.17	32.36	115.8	9.23	4.4	3.6
HCLR	HY/2011/03	2014-01-27	Mid-Flood	Sunny	IS(M)J6	14:16:52	1.0	Surface	1	2	16.89	8.17	32.35	116.2	9.26	4.5	4.3
HCLR	HY/2011/03	2014-01-27	Mid-Flood	Sunny	IS(M)J6			Middle	2	1							
HCLR	HY/2011/03	2014-01-27	Mid-Flood	Sunny	IS(M)J6			Middle	2	2							
HCLR	HY/2011/03	2014-01-27	Mid-Flood	Sunny	IS(M)J6	14:16:41	2.1	Bottom	3	1	16.88	8.17	32.35	115.9	9.23	4.4	4.4
HCLR	HY/2011/03	2014-01-27	Mid-Flood	Sunny	IS(M)J6	14:16:20	2.1	Bottom	3	2	16.87	8.17	32.36	115.4	9.2	4.4	4.6
HCLR	HY/2011/03	2014-01-27	Mid-Flood	Sunny	IS7	14:23:08	1.0	Surface	1	1	17.07	8.18	32.3	117.1	9.3	4.3	5.4
HCLR	HY/2011/03	2014-01-27	Mid-Flood	Sunny	IS7	14:23:29	1.0	Surface	1	2	17.08	8.19	32.3	117.6	9.34	4.2	4.3
HCLR	HY/2011/03	2014-01-27	Mid-Flood	Sunny	IS7			Middle	2	1							
HCLR	HY/2011/03	2014-01-27	Mid-Flood	Sunny	IS7			Middle	2	2							
HCLR	HY/2011/03	2014-01-27	Mid-Flood	Sunny	IS7	14:23:18	2.2	Bottom	3	1	17.07	8.19	32.3	117.4	9.32	4.5	6.9
HCLR	HY/2011/03	2014-01-27	Mid-Flood	Sunny	IS7	14:22:59	2.2	Bottom	3	2	17.07	8.18	32.3	116.8	9.27	4.3	6.4
HCLR	HY/2011/03	2014-01-27	Mid-Flood	Sunny	IS8	14:48:46	1.0	Surface	1	1	16.79	8.11	32.29	108.1	8.63	2.4	4.1
HCLR	HY/2011/03	2014-01-27	Mid-Flood	Sunny	IS8	14:48:24	1.0	Surface	1	2	16.79	8.11	32.3	107.9	8.61	2.3	3.1
HCLR	HY/2011/03	2014-01-27	Mid-Flood	Sunny	IS8			Surface	1	1							
HCLR	HY/2011/03	2014-01-27	Mid-Flood	Sunny	IS8			Middle	2	1							
HCLR	HY/2011/03	2014-01-27	Mid-Flood	Sunny	IS8			Middle	2	2							
HCLR	HY/2011/03	2014-01-27	Mid-Flood	Sunny	IS8	14:48:10	3.2	Bottom	3	1	16.74	8.11	32.31	107.6	8.6	2.4	3.4
HCLR	HY/2011/03	2014-01-27	Mid-Flood	Sunny	IS8	14:48:33	3.2	Bottom	3	2	16.75	8.11	32.31	107.8	8.61	2.3	3.8
HCLR	HY/2011/03	2014-01-27	Mid-Flood	Sunny	IS(M)J9	14:30:10	1.0	Surface	1	1	17.06	8.2	32.5	118	9.36	2.8	3.5
HCLR	HY/2011/03	2014-01-27	Mid-Flood	Sunny	IS(M)J9	14:29:53	1.0	Surface	1	2	17.04	8.2	32.5	117.7	9.34	2.9	2.7
HCLR	HY/2011/03	2014-01-27	Mid-Flood	Sunny	IS(M)J9			Middle	2	1							
HCLR	HY/2011/03	2014-01-27	Mid-Flood	Sunny	IS(M)J9			Middle	2	2							
HCLR	HY/2011/03	2014-01-27	Mid-Flood	Sunny	IS(M)J9	14:29:40	2.7	Bottom	3	1	17.02	8.19	32.5	117.3	9.31	3	3.9
HCLR	HY/2011/03	2014-01-27	Mid-Flood	Sunny	IS(M)J9	14:30:00	2.7	Bottom	3	2	17.05	8.2	32.5	117.8	9.35	2.9	3.5
HCLR	HY/2011/03	2014-01-27	Mid-Flood	Sunny	IS10	15:07:29	1.0	Surface	1	1	16.89	8.3	32.06	104.4	8.33	3.1	4
HCLR	HY/2011/03	2014-01-27	Mid-Flood	Sunny	IS10	15:06:42	1.0	Surface	1	2	16.91	8.31	32.06	105.7	8.43	2.9	2.5
HCLR	HY/2011/03	2014-01-27	Mid-Flood	Sunny	IS10	15:06:18	5.4	Middle	2	1	16.69	8.29	32.11	103	8.25	2.9	3.4
HCLR	HY/2011/03	2014-01-27	Mid-Flood	Sunny	IS10	15:07:18	5.4	Middle	2	2	16.68	8.28	32.11	103.2	8.27	3	3.3
HCLR	HY/2011/03	2014-01-27	Mid-Flood	Sunny	IS10	15:07:08	9.7	Bottom	3	1	16.67	8.29	32.12	103.8	8.31	3	5.2
HCLR	HY/2011/03	2014-01-27	Mid-Flood	Sunny	IS10	15:06:08	9.7	Bottom	3	2	16.67	8.29	32.12	103.2	8.27	3.2	3.2
HCLR	HY/2011/03	2014-01-27	Mid-Flood	Sunny	SR3			Surface	1	1							
HCLR	HY/2011/03	2014-01-27	Mid-Flood	Sunny	SR3			Surface	1	2							
HCLR	HY/2011/03	2014-01-27	Mid-Flood	Sunny	SR3	13:59:21	0.7	Middle	2	1	17.38	8.19	32.66	114.3	9	6.4	5.9
HCLR	HY/2011/03	2014-01-27	Mid-Flood	Sunny	SR3	13:59:14	0.7	Middle	2	2	17.41	8.19	32.67	113.7	8.95	6.2	5
HCLR	HY/2011/03	2014-01-27	Mid-Flood	Sunny	SR3			Bottom	3	1							
HCLR	HY/2011/03	2014-01-27	Mid-Flood	Sunny	SR3			Bottom	3	2							
HCLR	HY/2011/03	2014-01-27	Mid-Flood	Sunny	SR4	14:42:15	1.0	Surface	1	1	16.74	8.17	32.43	113.6	9.07	3.5	4.6
HCLR	HY/2011/03	2014-01-27	Mid-Flood	Sunny	SR4	14:41:57	1.0	Surface	1	2	16.61	8.16	32.5	108.2	8.66	3.6	4.7
HCLR	HY/2011/03	2014-01-27	Mid-Flood	Sunny	SR4			Middle	2	1							
HCLR	HY/2011/03	2014-01-27	Mid-Flood	Sunny	SR4			Middle	2	2							
HCLR	HY/2011/03	2014-01-27	Mid-Flood	Sunny	SR4	14:42:04	2.8	Bottom	3	1	16.71	8.17	32.44	110.4	8.82	3.8	5.3
HCLR	HY/2011/03	2014-01-27	Mid-Flood	Sunny	SR4	14:41:19	2.8	Bottom	3	2	16.74	8.16	32.41	116.5	9.31	3.7	5.2
HCLR	HY/2011/03	2014-01-27	Mid-Flood	Sunny	SR5	14:57:11	1.0	Surface	1	1	16.89	8.32	32.09	105.4	8.41	3.2	2.6
HCLR	HY/2011/03	2014-01-27	Mid-Flood	Sunny	SR5	14:57:39	1.0	Surface	1	2	16.88	8.31	32.08	105.4	8.41	3	4
HCLR	HY/2011/03	2014-01-27	Mid-Flood	Sunny	SR5			Middle	2	1							
HCLR	HY/2011/03	2014-01-27	Mid-Flood	Sunny	SR5			Middle	2	2							
HCLR	HY/2011/03	2014-01-27	Mid-Flood	Sunny	SR5	14:57:01	4.3	Bottom	3	1	16.82	8.32	32.11	104.8	8.37	3.3	3.7
HCLR	HY/2011/03	2014-01-27	Mid-Flood	Sunny	SR5	14:57:27	4.3	Bottom	3	2	16.72	8.31	32.12	104.9	8.4	2.9	3.6
HCLR	HY/2011/03	2014-01-27	Mid-Flood	Sunny	SR10A	15:49:54	1.0	Surface	1	1	16.71	8.09	32.91	101.6	8.09	1.8	2.7
HCLR	HY/2011/03	2014-01-27	Mid-Flood	Sunny	SR10A	15:49:18	1.0	Surface	1	2	16.71	8.09	32.92	101.7	8.1	1.8	2.9
HCLR	HY/2011/03	2014-01-27	Mid-Flood	Sunny	SR10A	15:49:04	3.2	Middle	2	1	16.7	8.09	32.93	101.3	8.07	1.9	3.9
HCLR	HY/2011/03	2014-01-27	Mid-Flood	Sunny	SR10A	15:49:43	3.2	Middle	2	2	16.7	8.09	32.92	101.5	8.09	1.9	2.4
HCLR	HY/2011/03	2014-01-27	Mid-Flood	Sunny	SR10A	15:48:54	5.4	Bottom	3	1	16.7	8.09	32.93	101.2	8.06	1.9	4.1
HCLR	HY/2011/03	2014-01-27	Mid-Flood	Sunny	SR10A	15:49:28	5.4	Bottom	3	2	16.71	8.09	32.92	101.4	8.08	1.9	4
HCLR	HY/2011/03	2014-01-27	Mid-Flood	Sunny	SR10B	15:57:36	1.0	Surface	1	1	16.71	8.09	32.89	101.6	8.1	1.8	2.2
HCLR	HY/2011/03	2014-01-27	Mid-Flood	Sunny	SR10B	15:58:08	1.0	Surface	1	2	16.71	8.1	32.89	101.7	8.1	1.7	3.2
HCLR	HY/2011/03	2014-01-27	Mid-Flood	Sunny	SR10B			Middle	2	1							
HCLR	HY/2011/03	2014-01-27	Mid-Flood	Sunny	SR10B			Middle	2	2							
HCLR	HY/2011/03	2014-01-27	Mid-Flood	Sunny	SR10B	15:57:53	3.8	Bottom	3	1	16.7	8.1	32.9	101.4	8.08	1.8	2.7
HCLR	HY/2011/03	2014-01-27	Mid-Flood	Sunny	SR10B	15:57:22	3.8	Bottom	3	2	16.7	8.09	32.9	101.6	8.09	1.8	3

Water Quarterly Monitoring Data

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HCLR	HY/2011/03	2014-01-27	Mid-Flood	Sunny	CS2	13:39:37	1.0	Surface	1	1	16.94	8.39	32.2	101.7	8.1	2.8	3.9
HCLR	HY/2011/03	2014-01-27	Mid-Flood	Sunny	CS2	13:40:14	1.0	Surface	1	2	16.94	8.36	32.11	105	8.37	2.9	3.9
HCLR	HY/2011/03	2014-01-27	Mid-Flood	Sunny	CS2	13:39:24	3.3	Middle	2	1	16.87	8.42	32.42	98.7	7.87	3.1	3.1
HCLR	HY/2011/03	2014-01-27	Mid-Flood	Sunny	CS2	13:40:03	3.3	Middle	2	2	16.86	8.37	32.27	104.4	8.33	3.1	2.7
HCLR	HY/2011/03	2014-01-27	Mid-Flood	Sunny	CS2	13:39:15	5.5	Bottom	3	1	16.9	8.46	32.51	95.4	7.59	3.3	3.9
HCLR	HY/2011/03	2014-01-27	Mid-Flood	Sunny	CS2	13:39:52	5.5	Bottom	3	2	16.88	8.38	32.33	103	8.21	3.1	3
HCLR	HY/2011/03	2014-01-27	Mid-Flood	Sunny	CS(MF)5	15:23:55	1.1	Surface	1	1	16.95	8.32	32.81	104.9	8.32	1.7	3.2
HCLR	HY/2011/03	2014-01-27	Mid-Flood	Sunny	CS(MF)5	15:23:11	1.0	Surface	1	2	16.95	8.11	32.81	105.2	8.35	1.8	4.3
HCLR	HY/2011/03	2014-01-27	Mid-Flood	Sunny	CS(MF)5	15:23:39	6.7	Middle	2	1	16.71	8.09	32.87	102.5	8.17	1.8	2.5
HCLR	HY/2011/03	2014-01-27	Mid-Flood	Sunny	CS(MF)5	15:22:54	6.7	Middle	2	2	16.71	8.09	32.87	102.2	8.15	1.9	2.2
HCLR	HY/2011/03	2014-01-27	Mid-Flood	Sunny	CS(MF)5	15:23:27	12.4	Bottom	3	1	16.7	8.09	32.88	103.5	8.25	1.8	3.5
HCLR	HY/2011/03	2014-01-27	Mid-Flood	Sunny	CS(MF)5	15:22:42	12.4	Bottom	3	2	16.69	8.08	32.89	103.1	8.22	1.8	3.2
HCLR	HY/2011/03	2014-01-29	Mid-Ebb	Sunny	IS5	12:43:00	1.0	Surface	1	1	17.35	8.25	31.51	122.8	9.75	4.1	5
HCLR	HY/2011/03	2014-01-29	Mid-Ebb	Sunny	IS5	12:43:26	1.0	Surface	1	2	17.33	8.25	31.51	123.1	9.77	4.4	4.6
HCLR	HY/2011/03	2014-01-29	Mid-Ebb	Sunny	IS5	12:42:49	4.6	Middle	2	1	17.27	8.24	31.58	121.8	9.68	4.4	4.9
HCLR	HY/2011/03	2014-01-29	Mid-Ebb	Sunny	IS5	12:43:17	4.6	Middle	2	2	17.25	8.24	31.59	122.4	9.73	4.4	4.9
HCLR	HY/2011/03	2014-01-29	Mid-Ebb	Sunny	IS5	12:42:40	8.1	Bottom	3	1	17.24	8.24	31.59	121.6	9.66	4.4	3.9
HCLR	HY/2011/03	2014-01-29	Mid-Ebb	Sunny	IS5	12:43:11	8.1	Bottom	3	2	17.28	8.24	31.57	122.2	9.71	4.4	4.8
HCLR	HY/2011/03	2014-01-29	Mid-Ebb	Sunny	IS(MF)6	12:32:25	1.0	Surface	1	1	17.53	8.3	31.97	128.5	10.13	5.9	4.5
HCLR	HY/2011/03	2014-01-29	Mid-Ebb	Sunny	IS(MF)6	12:32:11	1.0	Surface	1	2	17.54	8.3	31.97	124.9	9.85	6.4	4.4
HCLR	HY/2011/03	2014-01-29	Mid-Ebb	Sunny	IS(MF)6	12:32:06	2.3	Bottom	3	1	17.53	8.3	31.97	122.7	9.68	6	4.4
HCLR	HY/2011/03	2014-01-29	Mid-Ebb	Sunny	IS(MF)6	12:32:16	2.3	Bottom	3	2	17.53	8.3	31.97	126.3	9.96	6.1	4.6
HCLR	HY/2011/03	2014-01-29	Mid-Ebb	Sunny	IS7	12:23:17	1.0	Surface	1	1	17.45	8.27	31.6	127.4	10.08	3.3	4.3
HCLR	HY/2011/03	2014-01-29	Mid-Ebb	Sunny	IS7	12:23:34	1.0	Surface	1	2	17.49	8.27	31.57	128.7	10.19	3.1	3.9
HCLR	HY/2011/03	2014-01-29	Mid-Ebb	Sunny	IS7	12:23:37	1.0	Surface	1	1	17.49	8.27	31.57	128.7	10.19	3.1	3.9
HCLR	HY/2011/03	2014-01-29	Mid-Ebb	Sunny	IS7	12:23:23	2.5	Bottom	3	1	17.46	8.27	31.61	127.6	10.1	3.3	5.1
HCLR	HY/2011/03	2014-01-29	Mid-Ebb	Sunny	IS7	12:23:11	2.5	Bottom	3	2	17.46	8.27	31.6	126.3	9.99	3.3	3.4
HCLR	HY/2011/03	2014-01-29	Mid-Ebb	Sunny	IS8	11:52:46	1.0	Surface	1	1	17.28	8.18	31.05	117.8	9.39	3.5	3.3
HCLR	HY/2011/03	2014-01-29	Mid-Ebb	Sunny	IS8	11:52:37	1.0	Surface	1	2	17.27	8.18	31.06	116.4	9.28	3.5	2.4
HCLR	HY/2011/03	2014-01-29	Mid-Ebb	Sunny	IS8	11:52:40	2.3	Bottom	3	1	17.28	8.18	31.05	117	9.32	3.9	2.3
HCLR	HY/2011/03	2014-01-29	Mid-Ebb	Sunny	IS8	11:52:33	2.3	Bottom	3	2	17.28	8.18	31.05	115.7	9.22	4	2.8
HCLR	HY/2011/03	2014-01-29	Mid-Ebb	Sunny	IS(MF)9	12:16:06	1.0	Surface	1	1	17.3	8.23	31.32	126	10.02	2.6	3.4
HCLR	HY/2011/03	2014-01-29	Mid-Ebb	Sunny	IS(MF)9	12:15:47	1.0	Surface	1	2	17.3	8.23	31.32	125.6	9.99	2.5	3.2
HCLR	HY/2011/03	2014-01-29	Mid-Ebb	Sunny	IS(MF)9	12:15:23	2.4	Bottom	3	1	17.29	8.23	31.32	125.1	9.95	2.6	3.1
HCLR	HY/2011/03	2014-01-29	Mid-Ebb	Sunny	IS(MF)9	12:15:53	2.4	Bottom	3	2	17.29	8.23	31.35	125.4	9.88	2.5	3.1
HCLR	HY/2011/03	2014-01-29	Mid-Ebb	Sunny	IS10	12:03:14	1.0	Surface	1	1	17.32	8.2	28.98	109.1	8.8	2.2	3.3
HCLR	HY/2011/03	2014-01-29	Mid-Ebb	Sunny	IS10	12:02:33	1.0	Surface	1	2	17.36	8.18	28.97	108	8.71	2.1	3.7
HCLR	HY/2011/03	2014-01-29	Mid-Ebb	Sunny	IS10	12:02:16	5.3	Middle	2	1	17.05	8.23	31.13	107.7	8.62	2.1	3
HCLR	HY/2011/03	2014-01-29	Mid-Ebb	Sunny	IS10	12:03:02	5.3	Middle	2	2	17.06	8.24	31.05	108.3	8.67	2.2	4.8
HCLR	HY/2011/03	2014-01-29	Mid-Ebb	Sunny	IS10	12:02:49	9.6	Bottom	3	1	17.05	8.22	31.28	107.1	8.57	2.5	3
HCLR	HY/2011/03	2014-01-29	Mid-Ebb	Sunny	IS10	12:02:06	9.6	Bottom	3	2	17.04	8.21	31.27	106.9	8.55	2.4	4.8
HCLR	HY/2011/03	2014-01-29	Mid-Ebb	Sunny	SR3	12:49:08	0.6	Surface	1	1	17.38	8.24	31.5	124.1	9.85	3.6	6.2
HCLR	HY/2011/03	2014-01-29	Mid-Ebb	Sunny	SR3	12:49:05	0.6	Surface	1	2	17.38	8.24	31.5	124.1	9.84	3.6	5.7
HCLR	HY/2011/03	2014-01-29	Mid-Ebb	Sunny	SR3	12:01:29	1.0	Bottom	3	1	17.41	8.15	31.14	115.1	9.15	2.9	4.4
HCLR	HY/2011/03	2014-01-29	Mid-Ebb	Sunny	SR4	12:01:17	1.0	Surface	1	2	17.44	8.15	31.06	114.7	9.11	3	3.3
HCLR	HY/2011/03	2014-01-29	Mid-Ebb	Sunny	SR4	12:01:02	2.5	Middle	2	1	17.33	8.15	31.43	112.6	8.95	3.1	4.1
HCLR	HY/2011/03	2014-01-29	Mid-Ebb	Sunny	SR4	12:01:21	2.5	Bottom	3	1	17.45	8.15	31.09	114.7	9.11	3	3.5
HCLR	HY/2011/03	2014-01-29	Mid-Ebb	Sunny	SR5	12:11:44	1.0	Surface	1	1	17.3	8.21	28.98	108.8	8.78	3.3	4
HCLR	HY/2011/03	2014-01-29	Mid-Ebb	Sunny	SR5	12:12:07	1.0	Surface	1	2	17.32	8.2	28.98	108.3	8.73	3.2	3.7

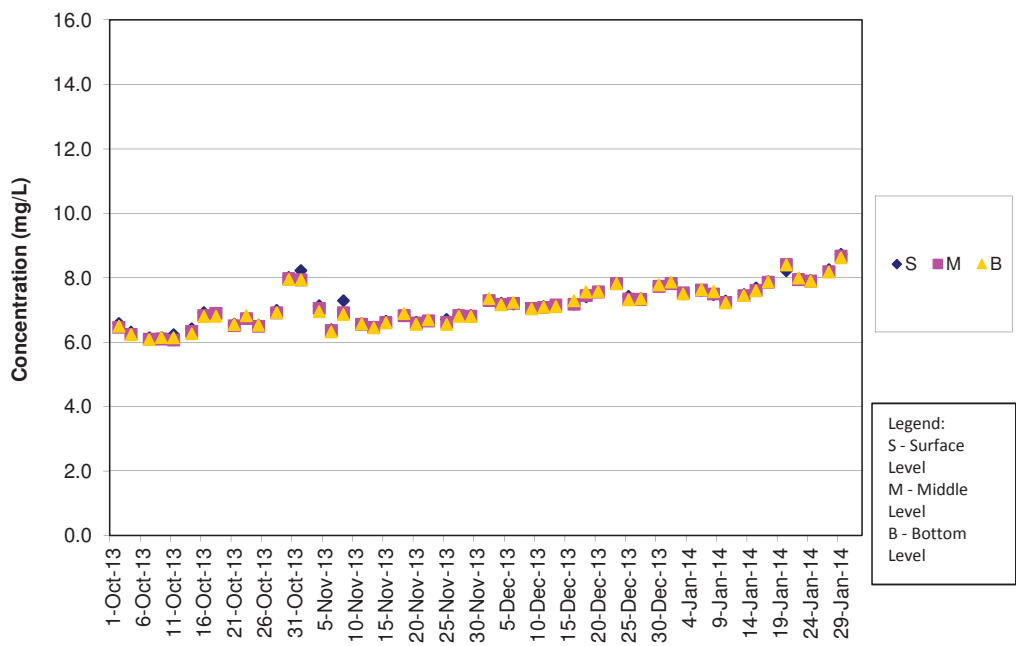
Water Quarterly Monitoring Data

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HCLR	HY/2011/03	2014-01-29	Mid-Ebb	Sunny	SR5	12:11:56	3.7	Bottom	2	1	17.08	8.21	30.22	107.5	8.64	3.3	4.9
HCLR	HY/2011/03	2014-01-29	Mid-Ebb	Sunny	SR5	12:11:35	3.7	Bottom	3	2	17.07	8.23	30.92	107.7	8.63	3.4	3.8
HCLR	HY/2011/03	2014-01-29	Mid-Ebb	Sunny	SR10A	10:51:02	1.0	Surface	1	1	17.18	8.11	31.38	112.4	8.96	1.2	4.4
HCLR	HY/2011/03	2014-01-29	Mid-Ebb	Sunny	SR10A	10:47:57	1.0	Surface	2	1	17.07	8.1	31.51	111.4	8.89	1.3	3.6
HCLR	HY/2011/03	2014-01-29	Mid-Ebb	Sunny	SR10A	10:47:49	3.1	Middle	1	2	16.95	8.08	31.85	111.4	8.89	1.3	3.9
HCLR	HY/2011/03	2014-01-29	Mid-Ebb	Sunny	SR10A	10:50:41	3.1	Middle	2	1	16.95	8.07	31.95	108.7	8.67	1.3	3.4
HCLR	HY/2011/03	2014-01-29	Mid-Ebb	Sunny	SR10A	10:47:41	5.2	Bottom	3	1	16.94	8.07	31.98	110.8	8.85	1.4	4.7
HCLR	HY/2011/03	2014-01-29	Mid-Ebb	Sunny	SR10A	10:50:34	5.2	Bottom	3	2	16.94	8.07	32.04	108.6	8.66	1.4	5.3
HCLR	HY/2011/03	2014-01-29	Mid-Ebb	Sunny	SR10B	10:42:02	1.0	Surface	1	1	17.12	8.1	31.37	112.4	8.97	1.4	2.9
HCLR	HY/2011/03	2014-01-29	Mid-Ebb	Sunny	SR10B	10:41:48	1.0	Surface	1	2	17.15	8.1	31.31	111.2	8.87	1.3	3.5
HCLR	HY/2011/03	2014-01-29	Mid-Ebb	Sunny	SR10B	10:41:33	3.8	Bottom	2	1	16.93	8.07	31.88	109.4	8.73	1.4	3.6
HCLR	HY/2011/03	2014-01-29	Mid-Ebb	Sunny	SR10B	10:41:53	3.8	Bottom	3	2	17.14	8.1	31.46	111.8	8.91	1.4	3.1
HCLR	HY/2011/03	2014-01-29	Mid-Ebb	Sunny	CS2	13:31:56	1.0	Surface	1	1	17.39	8.22	29.37	108.4	8.71	2.2	3.5
HCLR	HY/2011/03	2014-01-29	Mid-Ebb	Sunny	CS2	13:31:14	1.0	Surface	1	2	17.34	8.22	29.45	108.9	8.76	2.1	4.3
HCLR	HY/2011/03	2014-01-29	Mid-Ebb	Sunny	CS2	13:31:40	4.0	Middle	2	2	16.98	8.23	30.51	107.4	8.64	2.2	2.8
HCLR	HY/2011/03	2014-01-29	Mid-Ebb	Sunny	CS2	13:31:03	4.0	Middle	2	2	17.05	8.23	30.21	108.2	8.71	2.3	3.8
HCLR	HY/2011/03	2014-01-29	Mid-Ebb	Sunny	CS2	13:30:45	6.9	Bottom	3	1	16.98	8.22	31.23	107.5	8.61	2.4	4.2
HCLR	HY/2011/03	2014-01-29	Mid-Ebb	Sunny	CS2	13:31:28	6.9	Bottom	3	2	17.03	8.22	30.95	107.7	8.63	2.4	3.8
HCLR	HY/2011/03	2014-01-29	Mid-Ebb	Sunny	CS(M)F5	11:19:37	1.0	Surface	1	1	17.17	8.12	31.44	111.8	8.94	1.3	3.5
HCLR	HY/2011/03	2014-01-29	Mid-Ebb	Sunny	CS(M)F5	11:18:39	1.0	Surface	1	2	17.17	8.12	31.44	111.8	8.91	1.3	4.3
HCLR	HY/2011/03	2014-01-29	Mid-Ebb	Sunny	CS(M)F5	11:19:13	6.0	Middle	2	1	16.89	8.07	32.24	110.3	8.91	1.4	3.1
HCLR	HY/2011/03	2014-01-29	Mid-Ebb	Sunny	CS(M)F5	11:18:14	6.0	Middle	2	2	16.87	8.07	32.26	110.3	8.79	1.4	3.6
HCLR	HY/2011/03	2014-01-29	Mid-Ebb	Sunny	CS(M)F5	11:19:01	10.9	Bottom	3	1	16.88	8.07	32.3	109.5	8.73	1.5	4.1
HCLR	HY/2011/03	2014-01-29	Mid-Ebb	Sunny	CS(M)F5	11:18:07	10.9	Bottom	3	2	16.93	8.07	32.16	107.6	8.58	1.4	2.7
HCLR	HY/2011/03	2014-01-29	Mid-Flood	Sunny	IS5	15:41:28	1.0	Surface	1	1	17.43	8.2	31.37	125.3	9.94	3.5	4.6
HCLR	HY/2011/03	2014-01-29	Mid-Flood	Sunny	IS5	15:42:08	1.0	Surface	1	2	17.48	8.21	31.34	126.8	10.06	3.5	4.5
HCLR	HY/2011/03	2014-01-29	Mid-Flood	Sunny	IS5	15:41:57	4.6	Middle	2	1	17.39	8.19	31.42	126.5	10.02	3.6	5.3
HCLR	HY/2011/03	2014-01-29	Mid-Flood	Sunny	IS5	15:41:22	4.6	Middle	2	2	17.38	8.19	31.41	125.1	9.93	3.5	4.4
HCLR	HY/2011/03	2014-01-29	Mid-Flood	Sunny	IS5	15:41:13	8.2	Bottom	3	1	17.37	8.19	31.44	124.8	9.91	3.5	6.7
HCLR	HY/2011/03	2014-01-29	Mid-Flood	Sunny	IS5	15:41:50	8.2	Bottom	3	2	17.39	8.2	31.43	126	10	3.6	4.8
HCLR	HY/2011/03	2014-01-29	Mid-Flood	Sunny	IS(M)F6	15:52:40	1.0	Surface	1	1	17.83	8.29	31.67	142.3	11.18	19.2	4.1
HCLR	HY/2011/03	2014-01-29	Mid-Flood	Sunny	IS(M)F6	15:53:07	1.0	Surface	1	2	17.9	8.29	31.59	142.7	11.21	19	4.6
HCLR	HY/2011/03	2014-01-29	Mid-Flood	Sunny	IS(M)F6	15:52:49	2.3	Bottom	2	2	17.84	8.29	31.66	142.7	11.2	19.5	3.4
HCLR	HY/2011/03	2014-01-29	Mid-Flood	Sunny	IS(M)F6	15:52:28	2.3	Bottom	3	1	17.76	8.3	31.74	141.1	11.09	19.7	3.9
HCLR	HY/2011/03	2014-01-29	Mid-Flood	Sunny	IS7	16:01:31	1.0	Surface	1	1	18.15	8.28	31.52	137.2	10.72	6.1	2.5
HCLR	HY/2011/03	2014-01-29	Mid-Flood	Sunny	IS7	16:01:06	1.0	Surface	1	2	18.11	8.28	31.52	134.4	10.51	6	2.8
HCLR	HY/2011/03	2014-01-29	Mid-Flood	Sunny	IS7	16:01:02	2.3	Bottom	2	2	18.15	8.28	31.5	133.4	10.43	6.2	4.4
HCLR	HY/2011/03	2014-01-29	Mid-Flood	Sunny	IS7	16:01:11	2.3	Bottom	3	2	18.15	8.28	31.52	135.2	10.57	6.2	3
HCLR	HY/2011/03	2014-01-29	Mid-Flood	Sunny	IS8	16:28:08	1.0	Surface	1	1	17.66	8.25	31.2	132.6	10.48	2.8	4.8
HCLR	HY/2011/03	2014-01-29	Mid-Flood	Sunny	IS8	16:27:51	1.0	Surface	1	2	17.66	8.25	31.2	132.7	10.49	2.8	3.3
HCLR	HY/2011/03	2014-01-29	Mid-Flood	Sunny	IS8	16:27:51	1.0	Middle	2	1	17.65	8.29	31.63	135.4	10.68	15.1	3.1
HCLR	HY/2011/03	2014-01-29	Mid-Flood	Sunny	IS8	16:27:58	2.5	Bottom	2	2	17.63	8.25	31.23	132.2	10.45	3.3	7.9
HCLR	HY/2011/03	2014-01-29	Mid-Flood	Sunny	IS8	16:27:41	2.5	Bottom	3	2	17.59	8.25	31.27	132.2	10.46	3.3	7.5
HCLR	HY/2011/03	2014-01-29	Mid-Flood	Sunny	IS(M)F9	16:10:33	1.0	Surface	1	1	17.64	8.29	31.65	135.2	10.66	15.2	4.4
HCLR	HY/2011/03	2014-01-29	Mid-Flood	Sunny	IS(M)F9	16:10:57	1.0	Surface	1	2	17.65	8.29	31.63	135.4	10.68	15.1	3.1
HCLR	HY/2011/03	2014-01-29	Mid-Flood	Sunny	IS(M)F9	16:10:38	2.2	Bottom	2	2	17.58	8.29	31.75	135.3	10.67	15.3	3.9
HCLR	HY/2011/03	2014-01-29	Mid-Flood	Sunny	IS(M)F9	16:10:18	2.2	Bottom	3	1	17.62	8.29	31.8	132.8	10.49	15.3	3.3
HCLR	HY/2011/03	2014-01-29	Mid-Flood	Sunny	IS10	17:10:34	1.0	Surface	1	1	17.59	8.27	28.53	110.7	8.89	2.5	4
HCLR	HY/2011/03	2014-01-29	Mid-Flood	Sunny	IS10	17:09:54	1.0	Surface	1	2	17.68	8.27	28.52	110.6	8.88	2.5	3.9
HCLR	HY/2011/03	2014-01-29	Mid-Flood	Sunny	IS10	17:09:41	5.4	Middle	2	1	17.08	8.26	30.54	108.5	8.71	3.3	3.6
HCLR	HY/2011/03	2014-01-29	Mid-Flood	Sunny	IS10	17:10:19	5.4	Middle	2	2	17.05	8.27	30.47	108.6	8.73	3.2	3.3

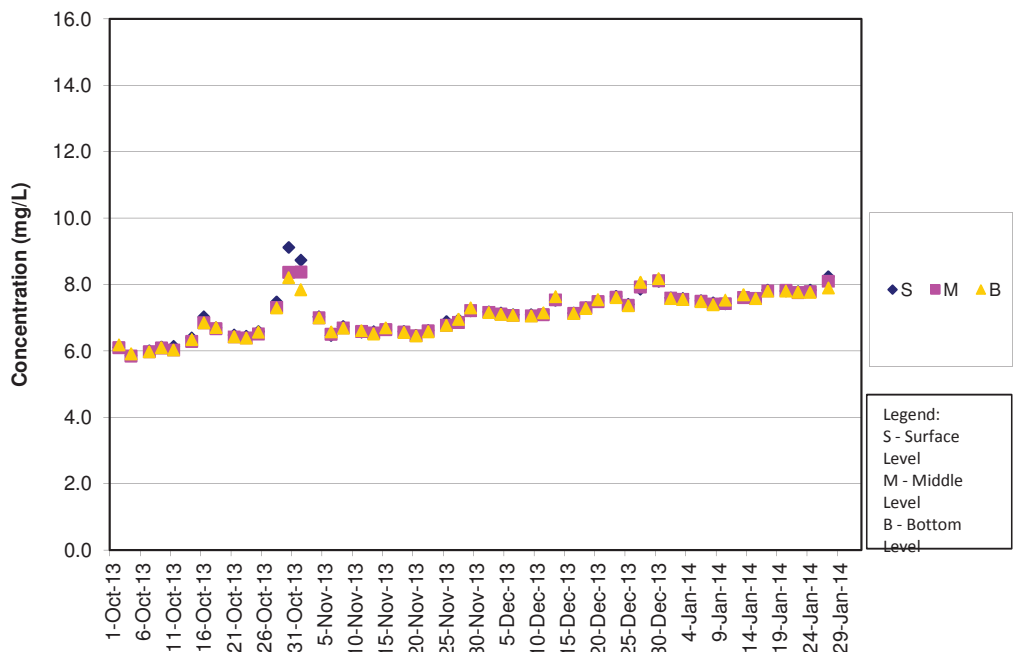
Water Quarterly Monitoring Data

Project	Works	Date (yyyy-mm-dd)	Tide	Weather Condition	Station	Time	Depth, m	Level	Level_Code	Replicate	Temperature, °C	pH	Salinity, ppt	DO, %	DO, mg/L	Turbidity, NTU	SS, mg/L
HCLR	HY/2011/03	2014-01-29	Mid-Flood	Sunny	IS10	17:10:08	9.8	Bottom	3	1	17.13	8.26	30.82	109.5	8.76	3.4	3.7
HCLR	HY/2011/03	2014-01-29	Mid-Flood	Sunny	IS10	17:09:30	9.8	Bottom	3	2	17.26	8.26	30.7	109.5	8.75	3.2	3.1
HCLR	HY/2011/03		Mid-Flood		SR3			Surface	1	1							
HCLR	HY/2011/03	2014-01-29	Mid-Flood	Sunny	SR3	15:34:24	0.7	Middle	2	1	17.57	8.23	31.34	116.6	9.23	3.3	4.5
HCLR	HY/2011/03	2014-01-29	Mid-Flood	Sunny	SR3	15:34:27	0.7	Middle	2	2	17.57	8.23	31.34	117.7	9.31	3.3	4.6
HCLR	HY/2011/03		Mid-Flood		SR3			Bottom	3	1							
HCLR	HY/2011/03	2014-01-29	Mid-Flood	Sunny	SR4	16:20:43	1.0	Bottom	3	2	17.67	8.26	31.19	129.1	10.2	2.5	4.3
HCLR	HY/2011/03	2014-01-29	Mid-Flood	Sunny	SR4	16:20:52	1.0	Surface	1	1	17.66	8.26	31.2	129.6	10.24	2.4	4.2
HCLR	HY/2011/03		Mid-Flood		SR4			Middle	2	1							
HCLR	HY/2011/03	2014-01-29	Mid-Flood	Sunny	SR4	16:20:33	2.4	Middle	2	2	17.67	8.26	31.19	128.4	10.15	2.5	2.9
HCLR	HY/2011/03	2014-01-29	Mid-Flood	Sunny	SR4	16:20:47	2.4	Bottom	3	1	17.67	8.26	31.19	129.4	10.22	2.5	3.8
HCLR	HY/2011/03	2014-01-29	Mid-Flood	Sunny	SR5	16:59:36	1.0	Bottom	3	2	17.38	8.23	29.43	107.9	8.67	1.8	3.2
HCLR	HY/2011/03	2014-01-29	Mid-Flood	Sunny	SR5	16:59:54	1.0	Surface	1	1	17.48	8.24	29.15	109.1	8.76	1.7	4.8
HCLR	HY/2011/03		Mid-Flood		SR5			Surface	1	2							
HCLR	HY/2011/03	2014-01-29	Mid-Flood	Sunny	SR5	16:59:45	3.8	Middle	2	1	17.28	8.23	29.76	108	8.68	1.7	2.9
HCLR	HY/2011/03	2014-01-29	Mid-Flood	Sunny	SR5	16:59:25	3.8	Bottom	3	1	17.19	8.22	30.03	106.7	8.58	1.7	4.1
HCLR	HY/2011/03	2014-01-29	Mid-Flood	Sunny	SR10A	17:51:57	1.0	Bottom	3	2	16.97	8.16	32.48	105.6	8.39	1.6	3
HCLR	HY/2011/03	2014-01-29	Mid-Flood	Sunny	SR10A	17:52:23	1.0	Surface	1	1	16.97	8.16	32.47	105.9	8.42	1.4	3.3
HCLR	HY/2011/03	2014-01-29	Mid-Flood	Sunny	SR10A	17:52:12	3.2	Surface	1	2	16.97	8.16	32.47	105.7	8.4	1.5	4.5
HCLR	HY/2011/03	2014-01-29	Mid-Flood	Sunny	SR10A	17:51:52	3.2	Middle	2	1	16.97	8.16	32.48	105.4	8.38	1.7	2.7
HCLR	HY/2011/03	2014-01-29	Mid-Flood	Sunny	SR10A	17:51:46	5.3	Middle	2	2	16.97	8.16	32.49	105.3	8.37	1.7	2.9
HCLR	HY/2011/03	2014-01-29	Mid-Flood	Sunny	SR10A	17:52:07	5.3	Bottom	3	2	16.97	8.16	32.47	105.6	8.39	1.5	2.8
HCLR	HY/2011/03	2014-01-29	Mid-Flood	Sunny	SR10B	17:56:45	1.0	Bottom	3	1	17.12	8.16	32.19	110.2	8.75	1	3.9
HCLR	HY/2011/03	2014-01-29	Mid-Flood	Sunny	SR10B	17:56:58	1.0	Surface	1	1	17.1	8.16	32.22	110	8.73	1	3.8
HCLR	HY/2011/03		Mid-Flood		SR10B			Middle	2	1							
HCLR	HY/2011/03	2014-01-29	Mid-Flood	Sunny	SR10B	17:56:41	4.0	Middle	2	2	17.14	8.16	32.18	110.3	8.75	1	5.1
HCLR	HY/2011/03	2014-01-29	Mid-Flood	Sunny	SR10B	17:56:53	4.0	Bottom	3	1	17.11	8.16	32.21	110	8.73	1.1	4
HCLR	HY/2011/03	2014-01-29	Mid-Flood	Sunny	CS2	15:41:59	1.0	Bottom	3	2	17.62	8.17	28.66	107.7	8.65	2.1	3
HCLR	HY/2011/03	2014-01-29	Mid-Flood	Sunny	CS2	15:41:21	1.0	Surface	1	1	17.67	8.15	28.61	106.9	8.58	2.2	3.1
HCLR	HY/2011/03	2014-01-29	Mid-Flood	Sunny	CS2	15:41:07	4.0	Surface	1	2	17.1	8.13	30.15	103.6	8.33	2.2	3.4
HCLR	HY/2011/03	2014-01-29	Mid-Flood	Sunny	CS2	15:41:49	4.0	Middle	2	1	17.08	8.16	29.64	105.9	8.54	2.1	3.6
HCLR	HY/2011/03	2014-01-29	Mid-Flood	Sunny	CS2	15:41:31	6.9	Middle	2	2	17.28	8.15	29.81	106.7	8.57	2.2	4.7
HCLR	HY/2011/03	2014-01-29	Mid-Flood	Sunny	CS2	15:40:50	6.9	Bottom	3	1	17.1	8.09	30.52	101.9	8.18	2.3	3.3
HCLR	HY/2011/03	2014-01-29	Mid-Flood	Sunny	CS(M)FS	17:16:46	1.0	Bottom	3	2	17.24	8.21	31.78	113.3	9	2.2	2.5
HCLR	HY/2011/03	2014-01-29	Mid-Flood	Sunny	CS(M)FS	17:16:08	1.0	Surface	1	1	17.24	8.22	31.78	113.1	8.98	2.3	3.7
HCLR	HY/2011/03	2014-01-29	Mid-Flood	Sunny	CS(M)FS	17:15:55	6.7	Surface	1	2	17.1	8.19	32.09	111	8.83	2.4	2
HCLR	HY/2011/03	2014-01-29	Mid-Flood	Sunny	CS(M)FS	17:16:30	6.7	Middle	2	1	16.99	8.17	32.24	113.3	9	2.4	3
HCLR	HY/2011/03	2014-01-29	Mid-Flood	Sunny	CS(M)FS	17:15:42	12.3	Middle	2	2	16.99	8.17	32.26	110.4	8.77	2.5	2.8
HCLR	HY/2011/03	2014-01-29	Mid-Flood	Sunny	CS(M)FS	17:16:22	12.3	Bottom	3	1	17.07	8.18	32.16	111.3	8.86	2.4	3.4

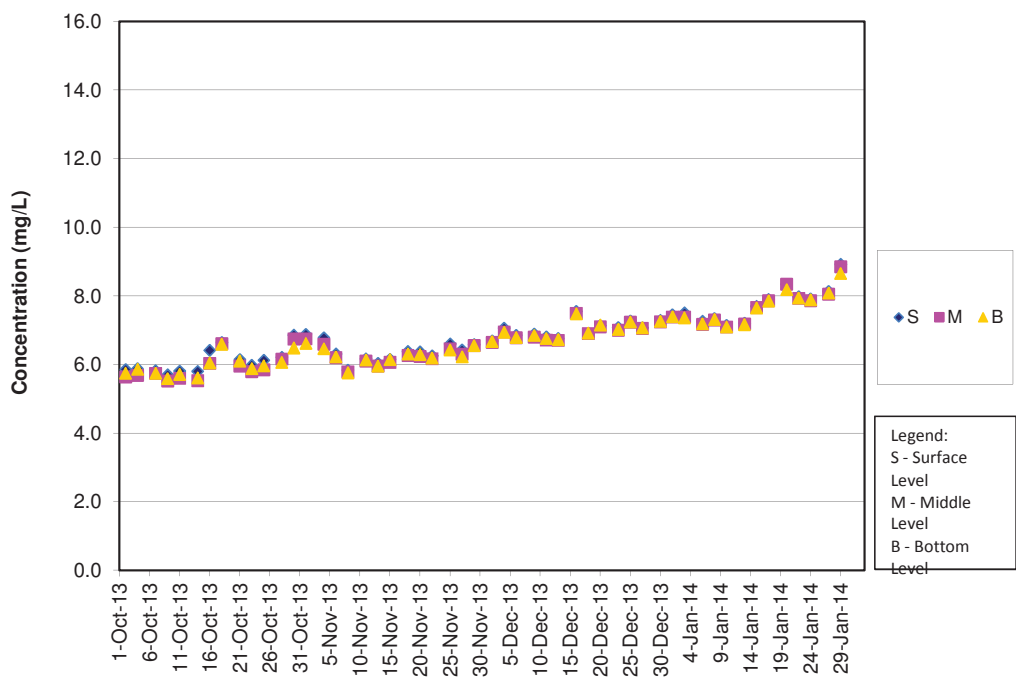
DO Concentrations at Station CS2 (Mid Ebb)



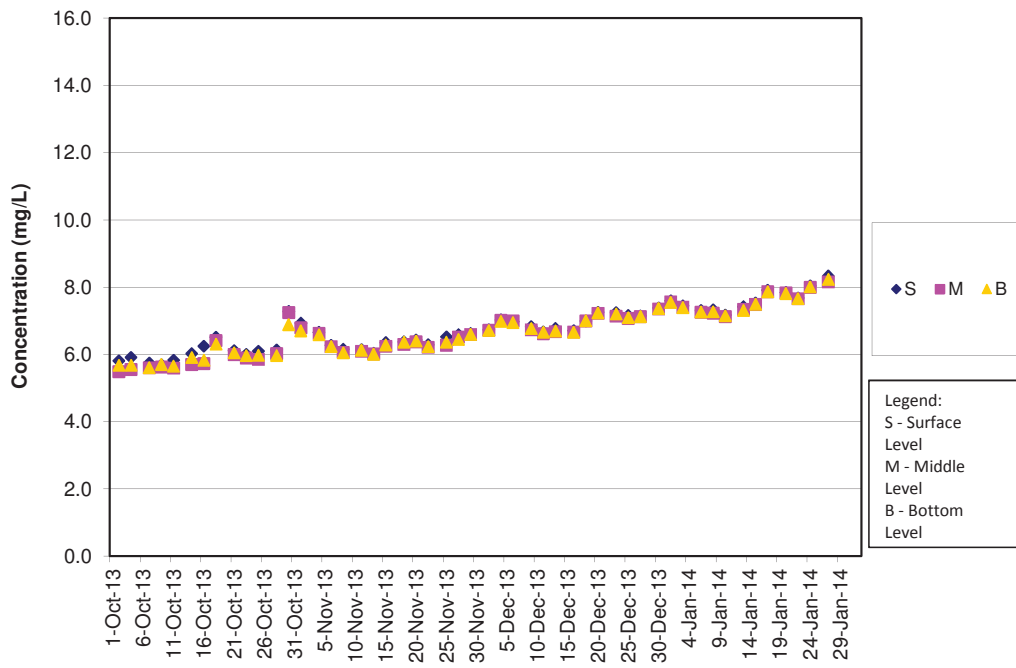
DO Concentrations at Station CS2 (Mid Flood)



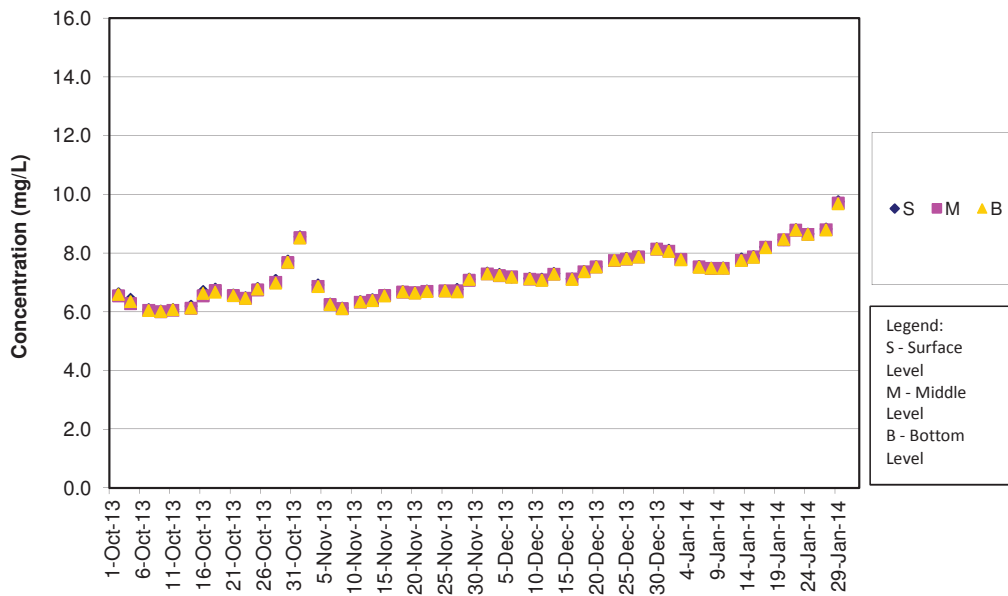
DO Concentrations at Station CS(Mf)5 (Mid Ebb)



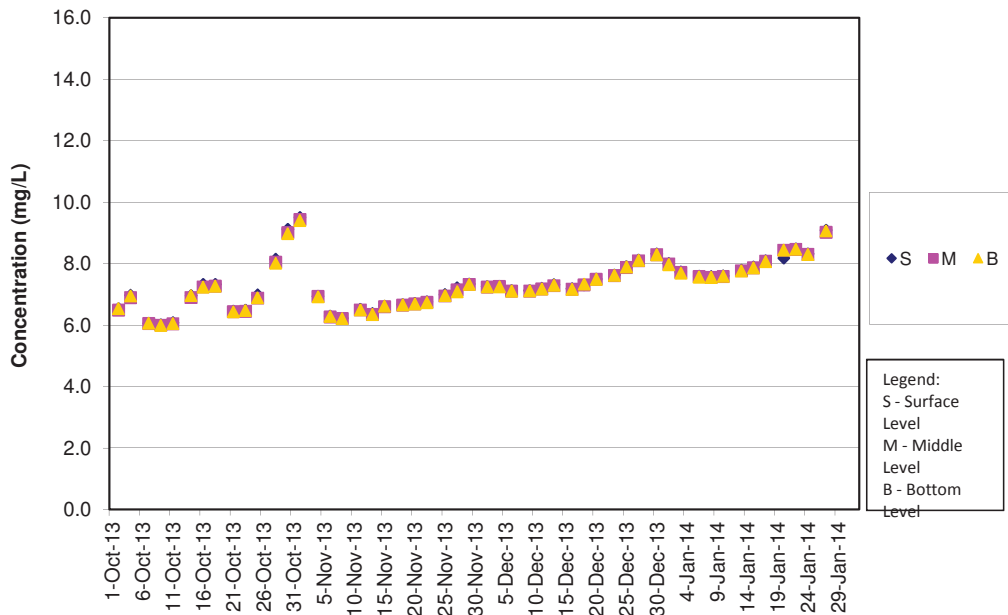
DO Concentrations at Station CS(Mf)5 (Mid Flood)



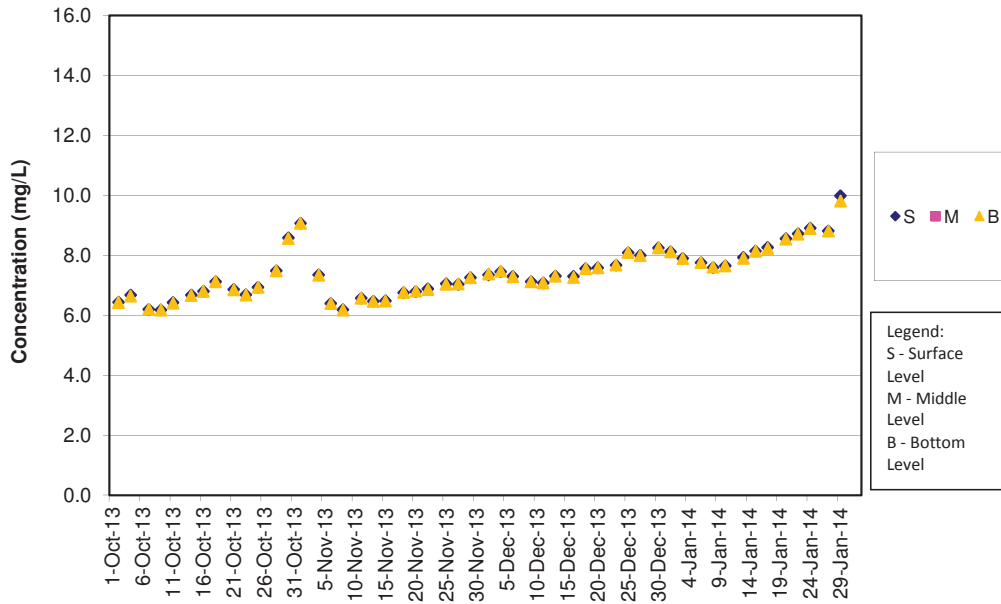
DO Concentrations at Station IS5 (Mid Ebb)



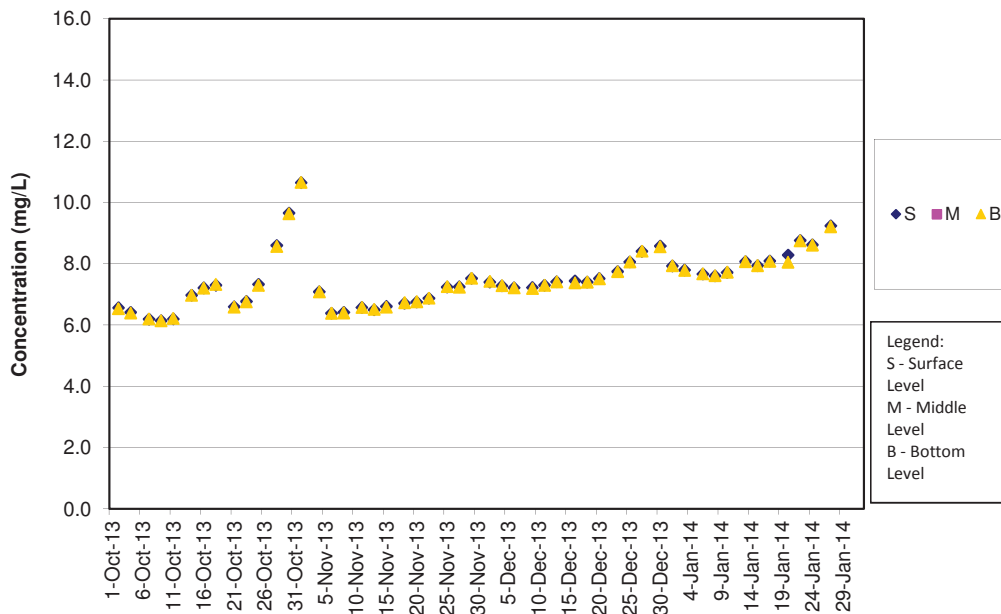
DO Concentrations at Station IS5 (Mid Flood)



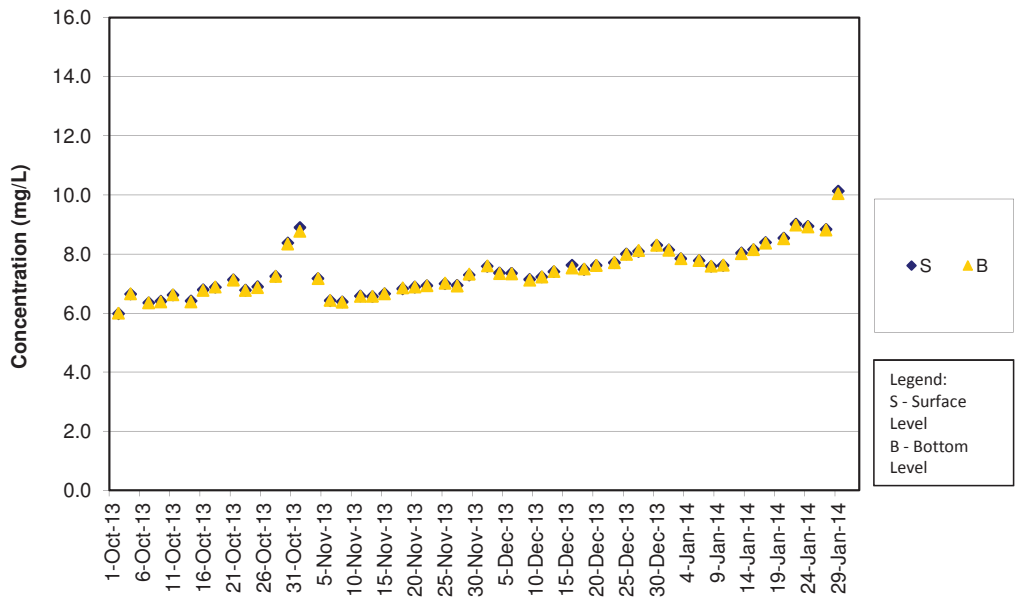
DO Concentrations at Station IS(Mf)6 (Mid Ebb)



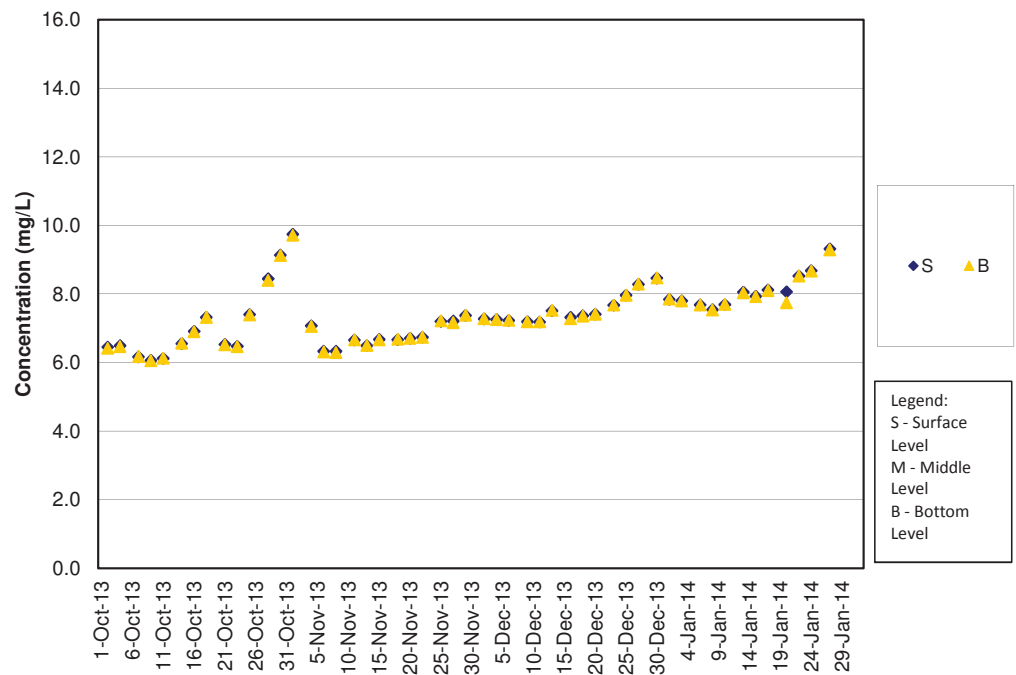
DO Concentrations at Station IS(Mf)6 (Mid Flood)



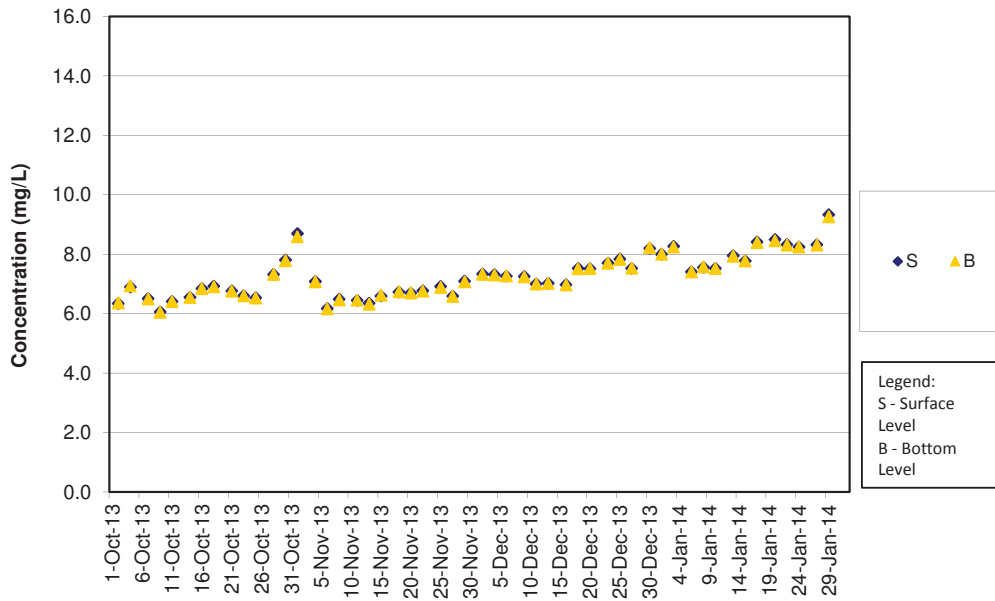
DO Concentrations at Station IS7 (Mid Ebb)



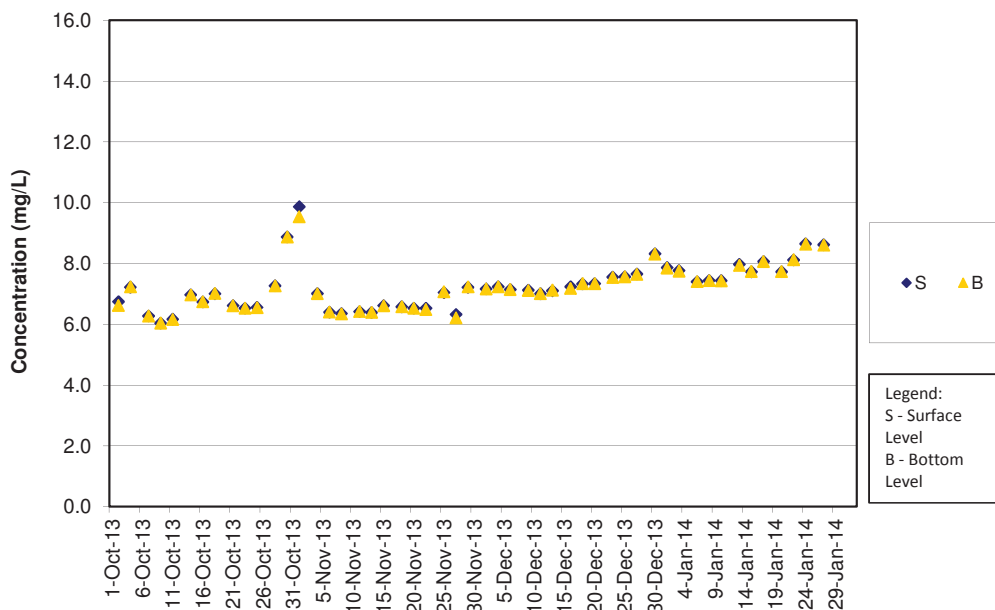
DO Concentrations at Station IS7 (Mid Flood)



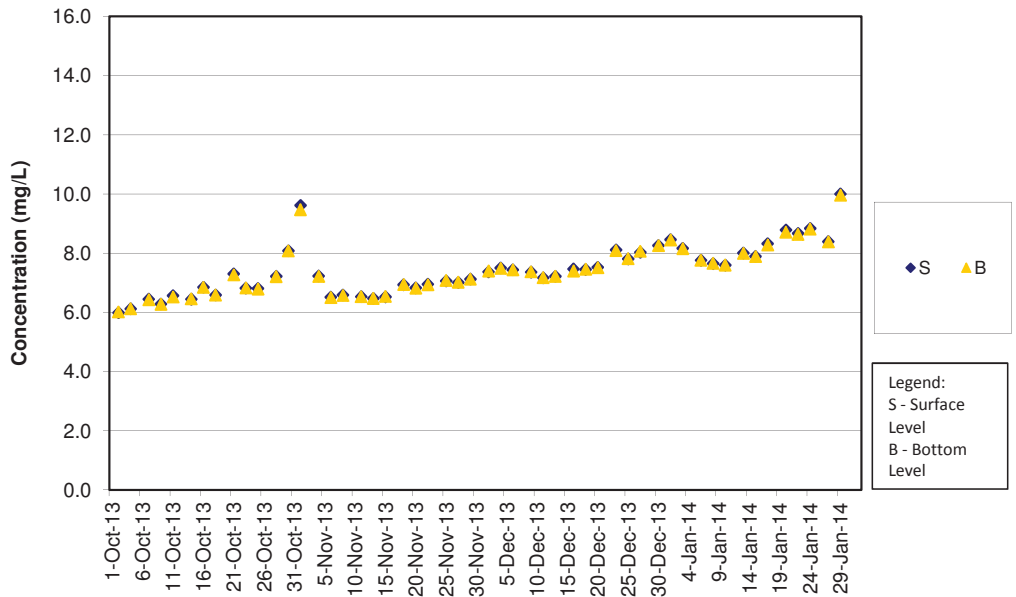
DO Concentrations at Station IS8 (Mid Ebb)



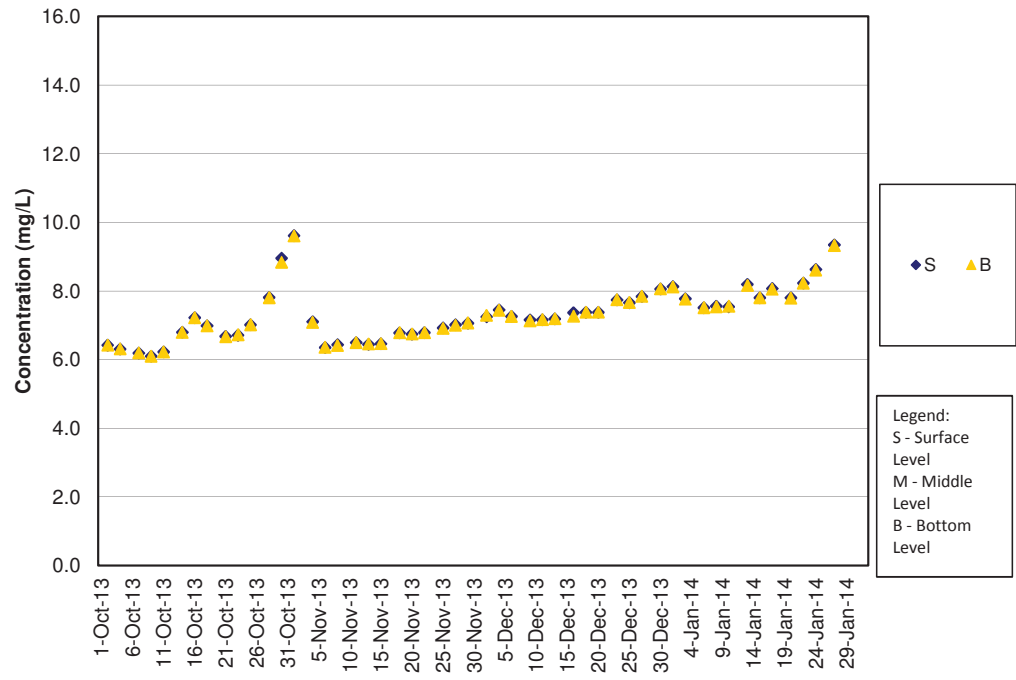
DO Concentrations at Station IS8 (Mid Flood)

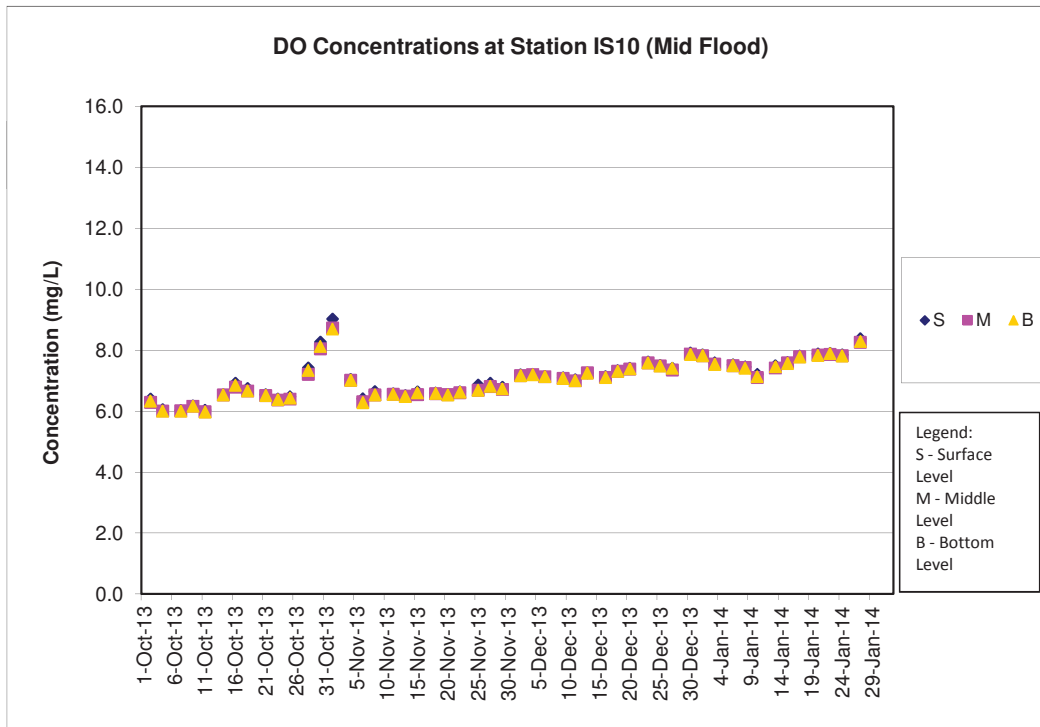
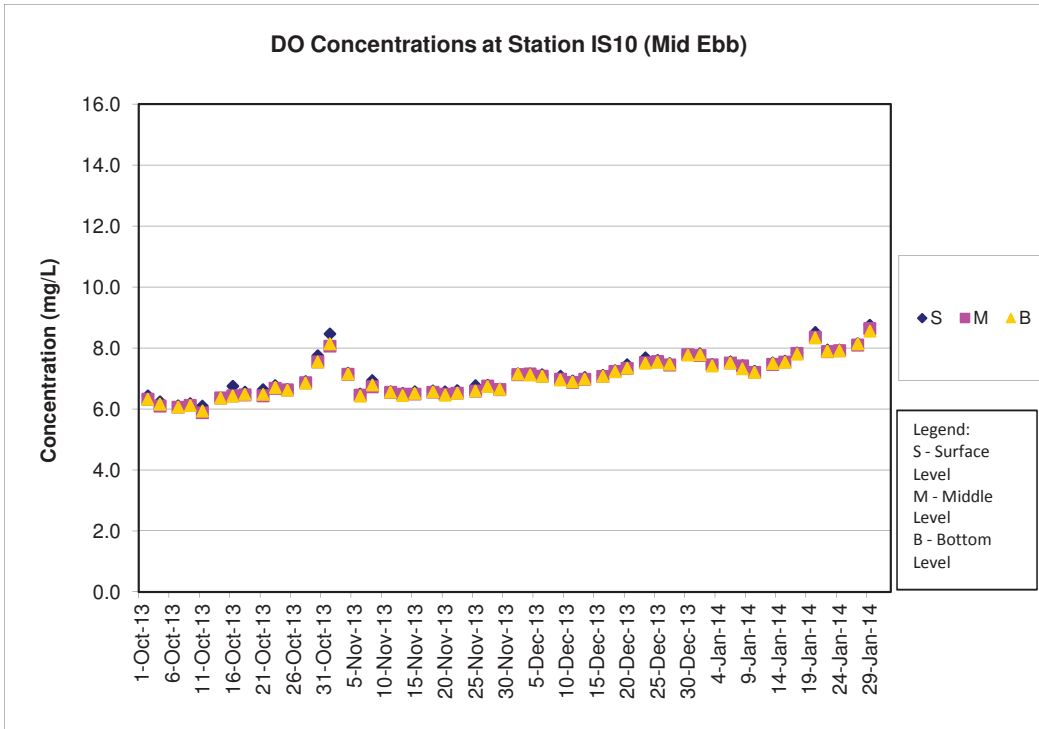


DO Concentrations at Station IS(Mf)9 (Mid Ebb)

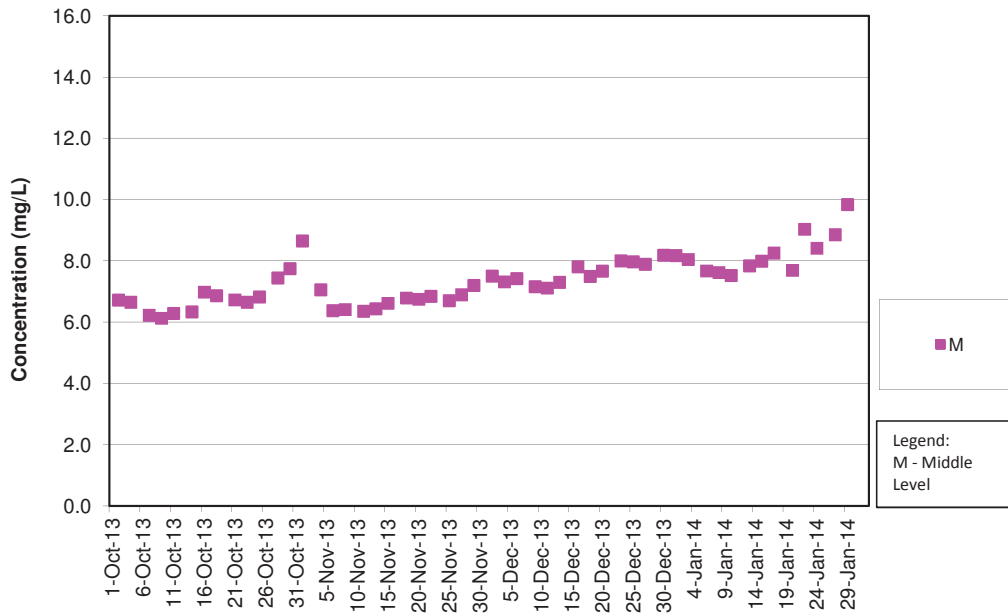


DO Concentrations at Station IS(Mf)9 (Mid Flood)

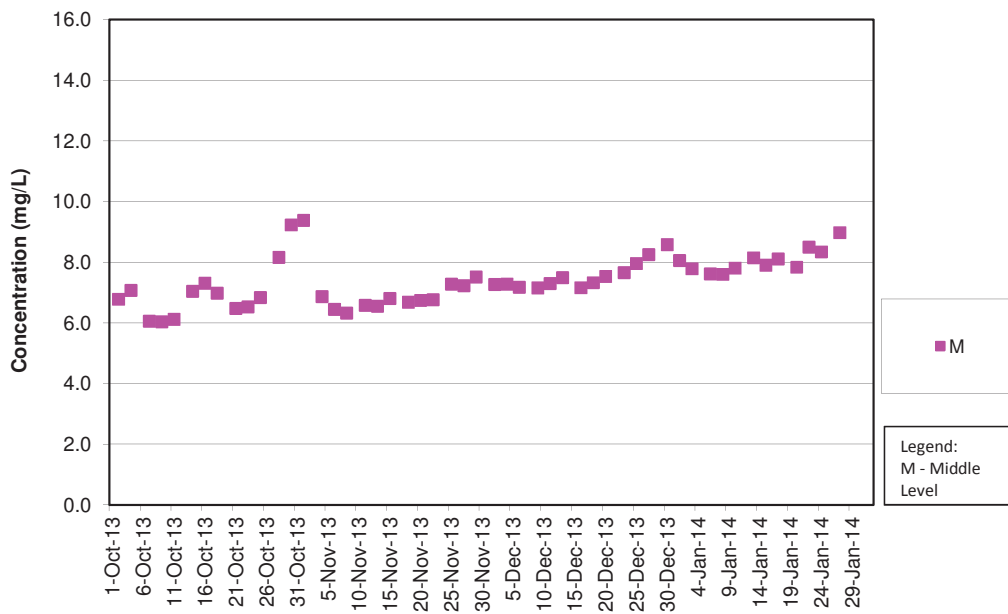




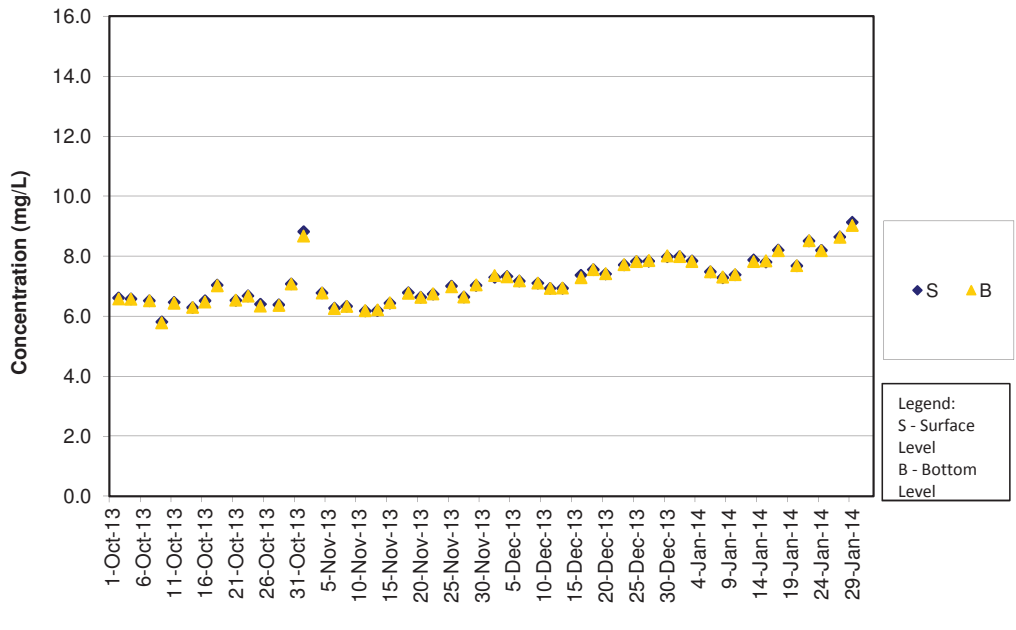
DO Concentrations at Station SR3 (Mid Ebb)



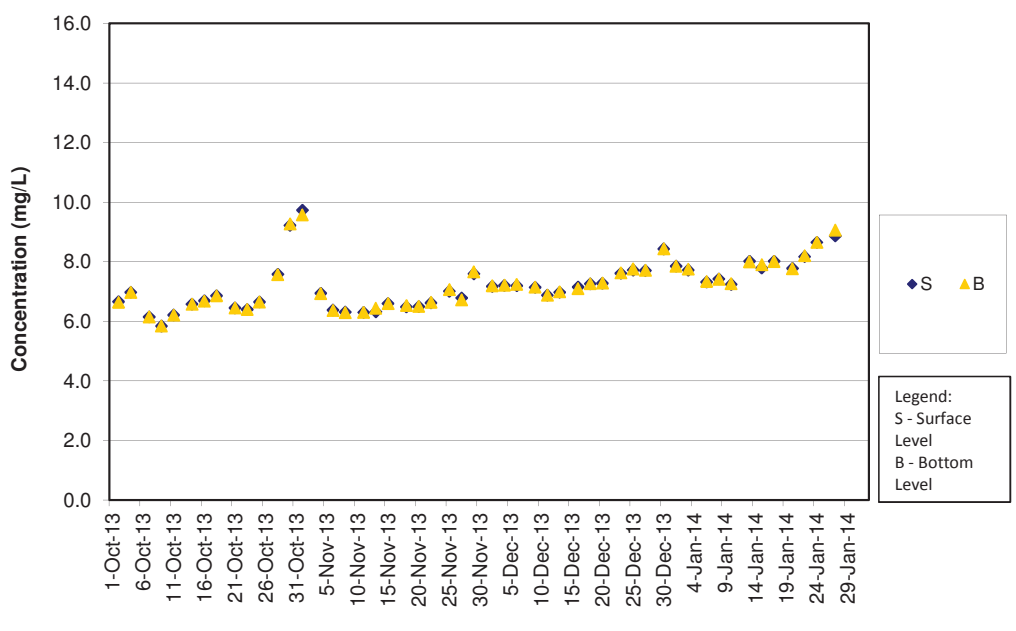
DO Concentrations at Station SR3 (Mid Flood)

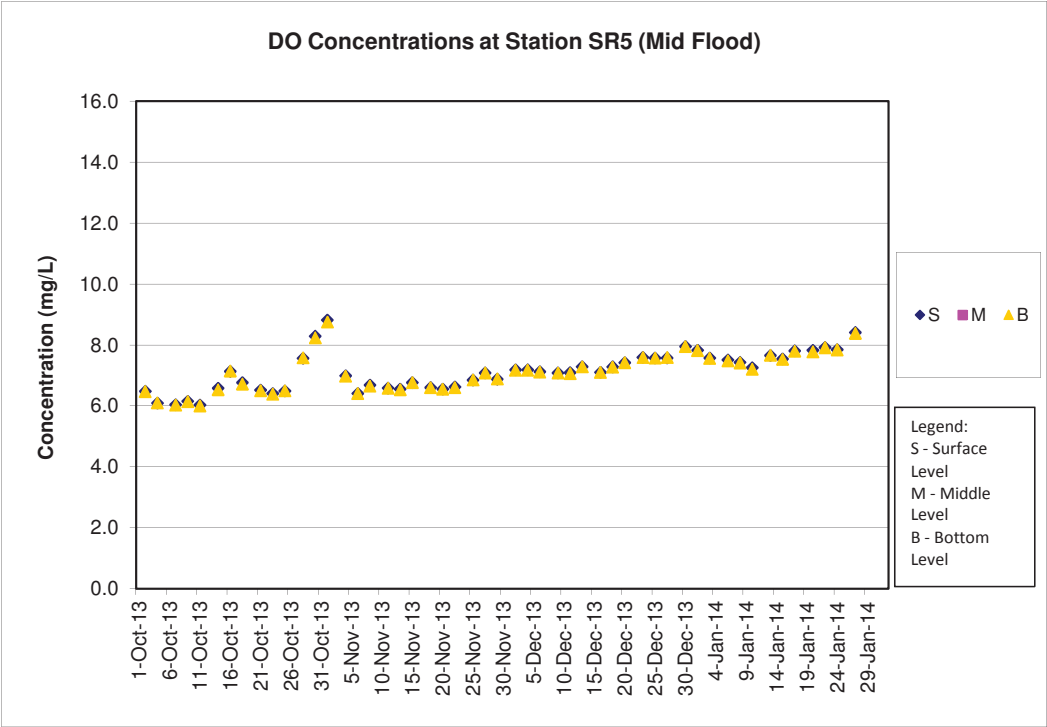
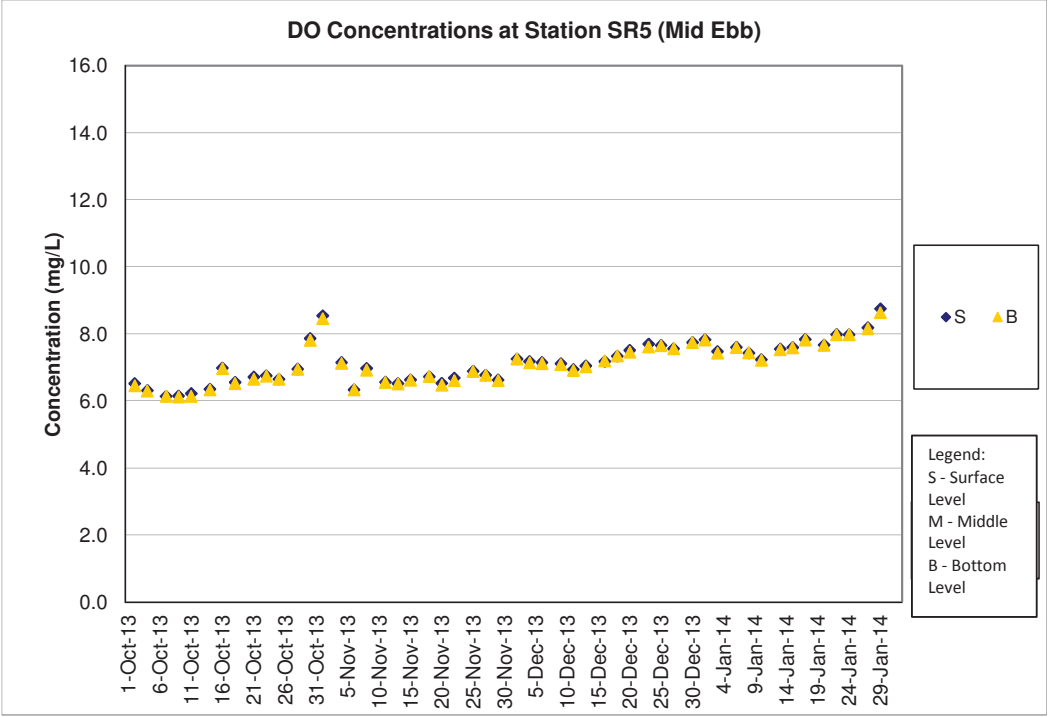


DO Concentrations at Station SR4 (Mid Ebb)

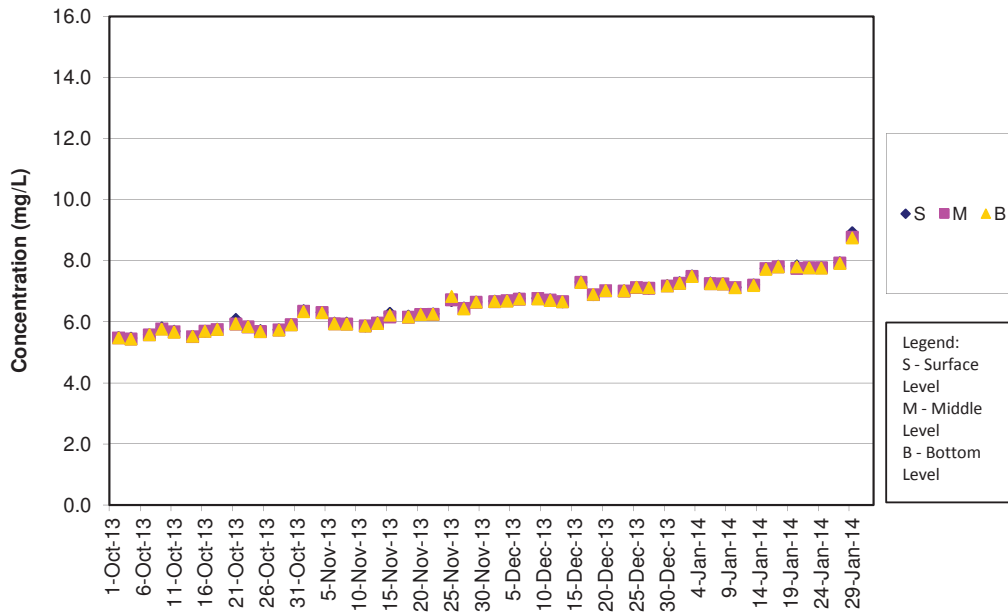


DO Concentrations at Station SR4 (Mid Flood)

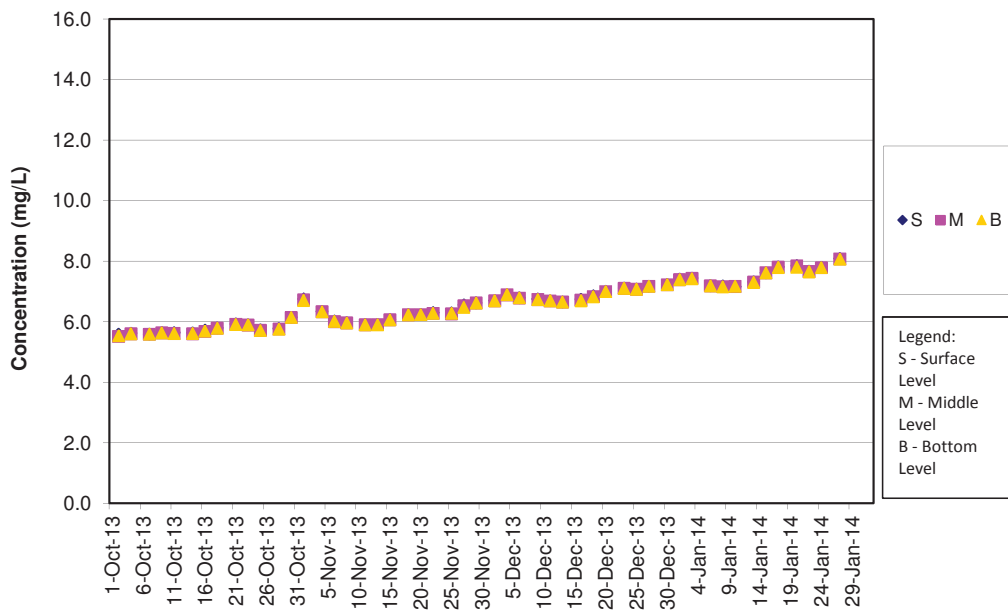




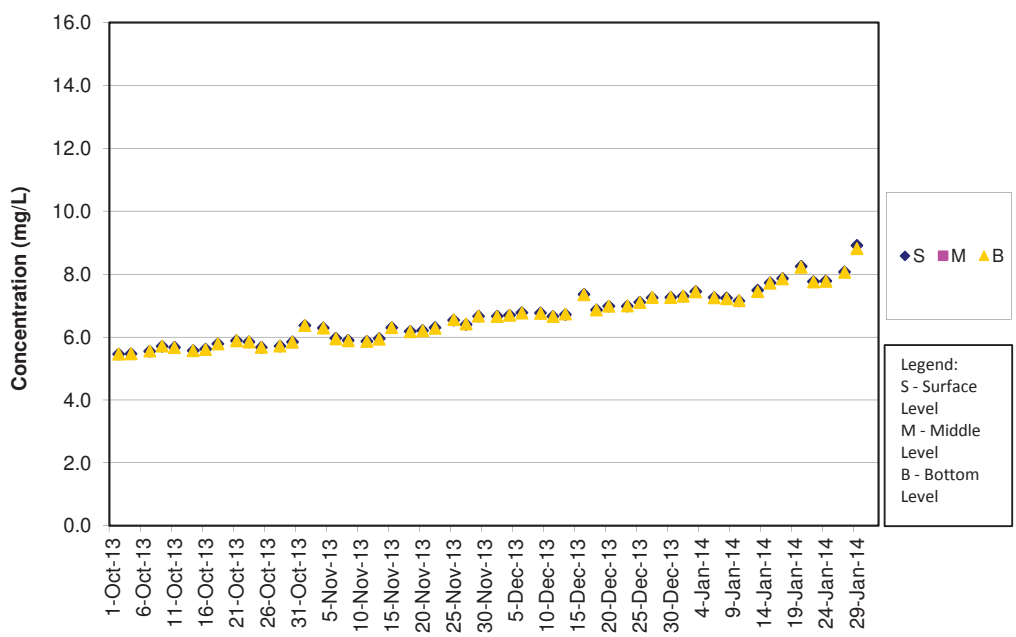
DO Concentrations at Station SR10A (Mid Ebb)



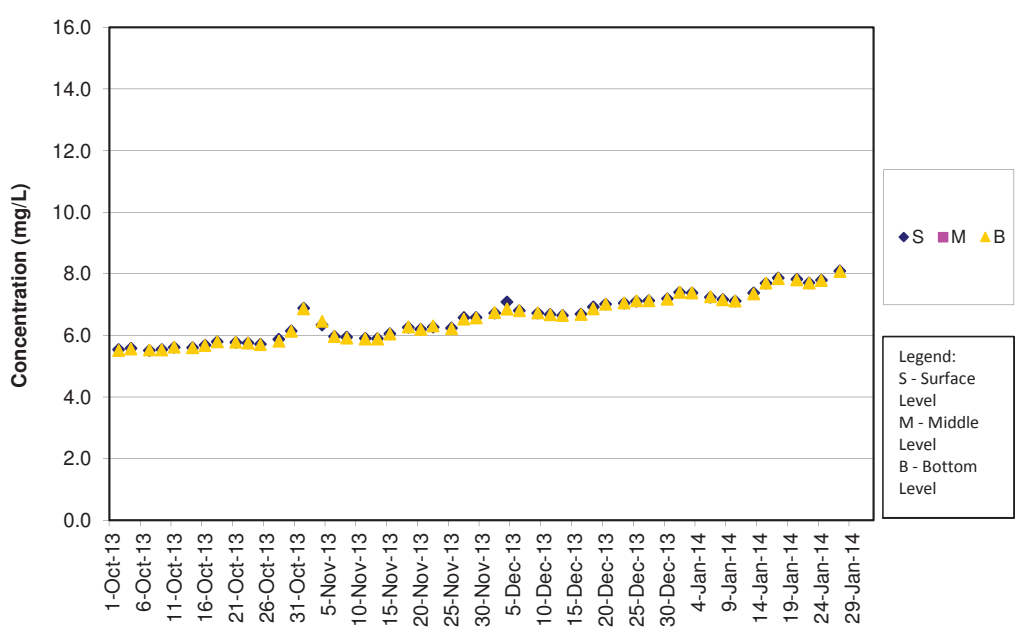
DO Concentrations at Station SR10A (Mid Flood)

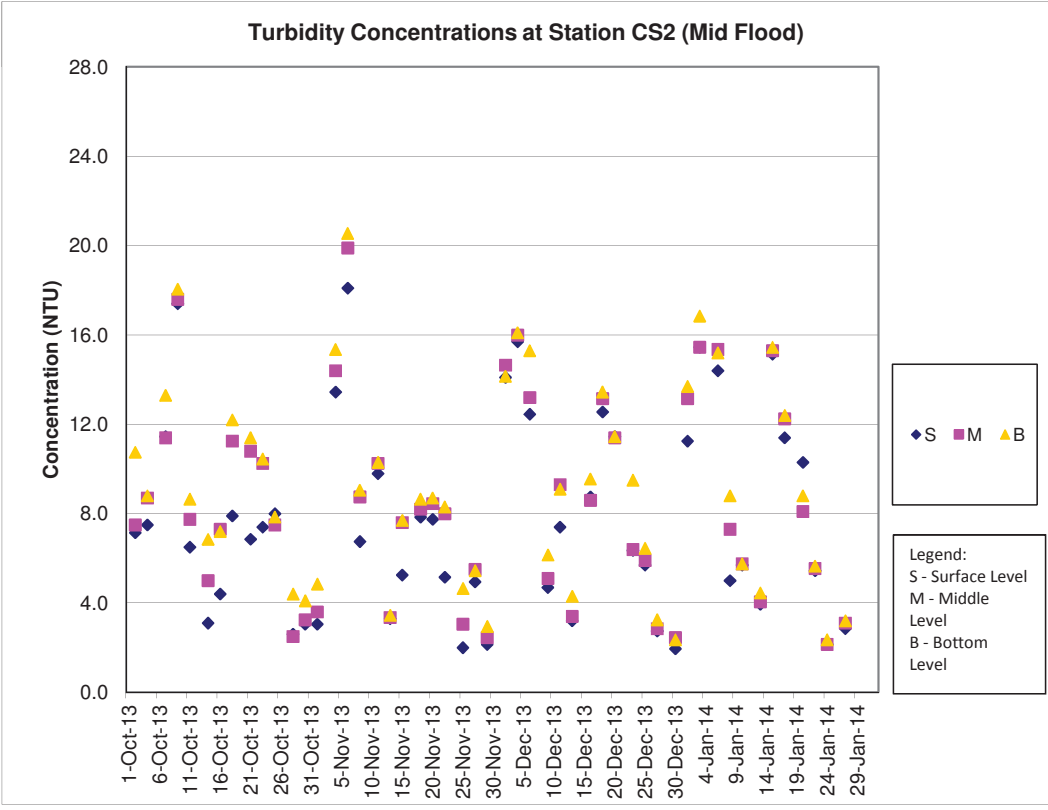
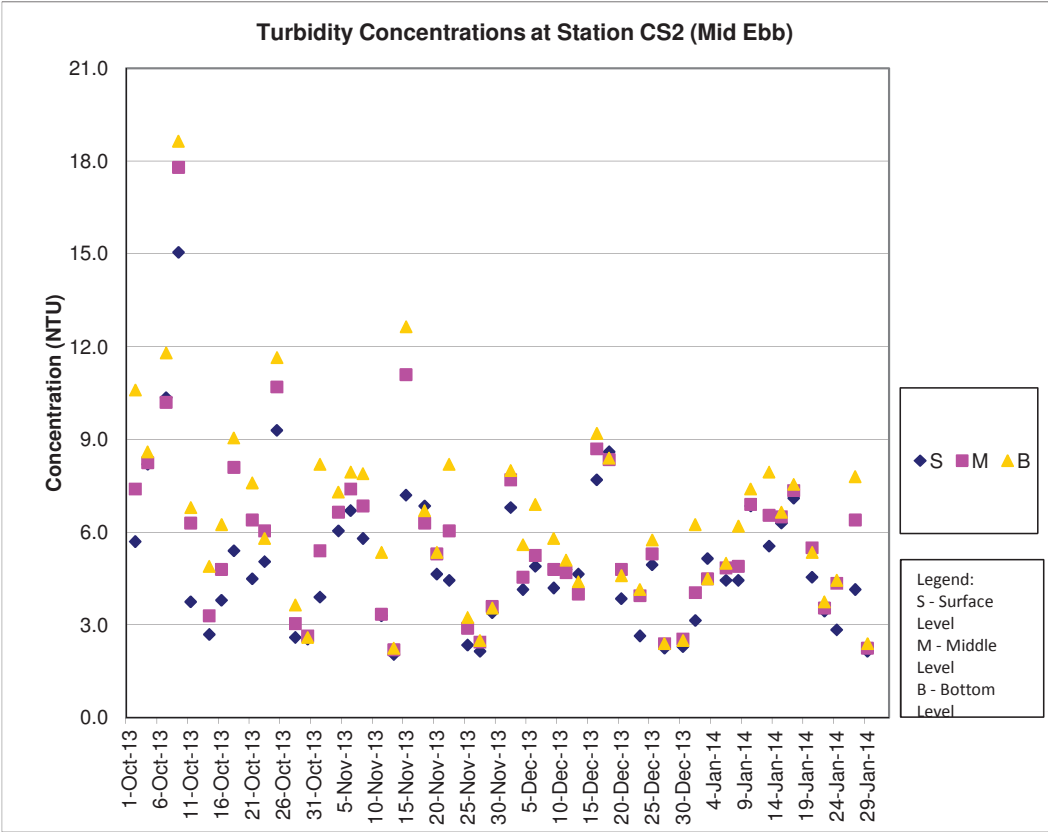


DO Concentrations at Station SR10B (Mid Ebb)

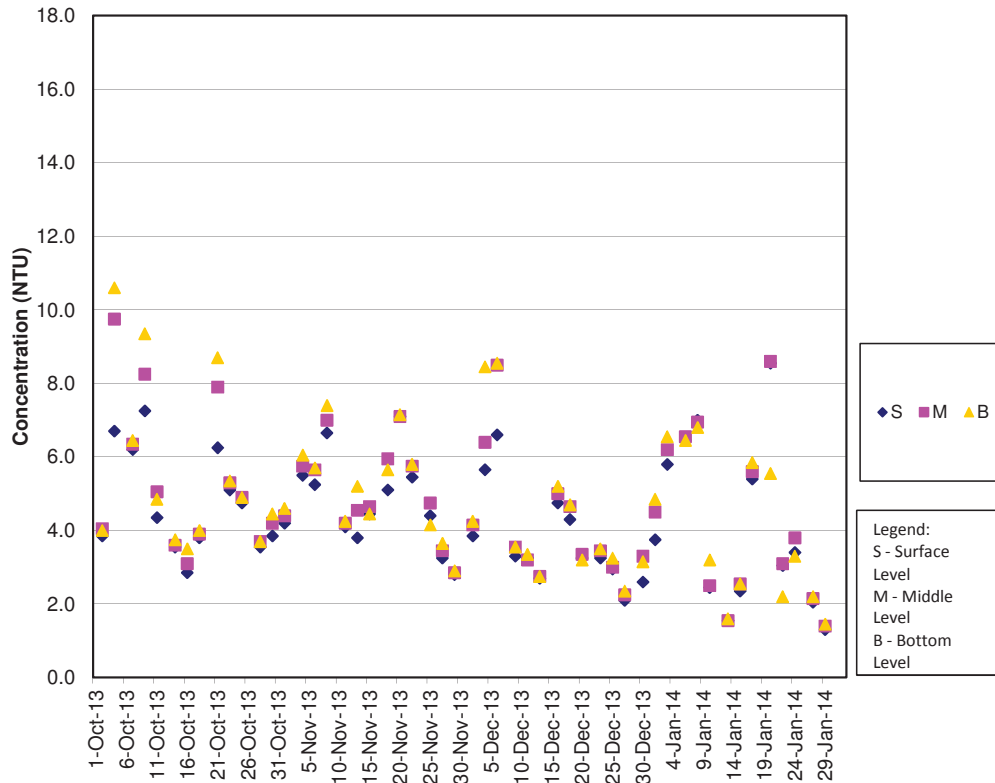


DO Concentrations at Station SR10B (Mid Flood)

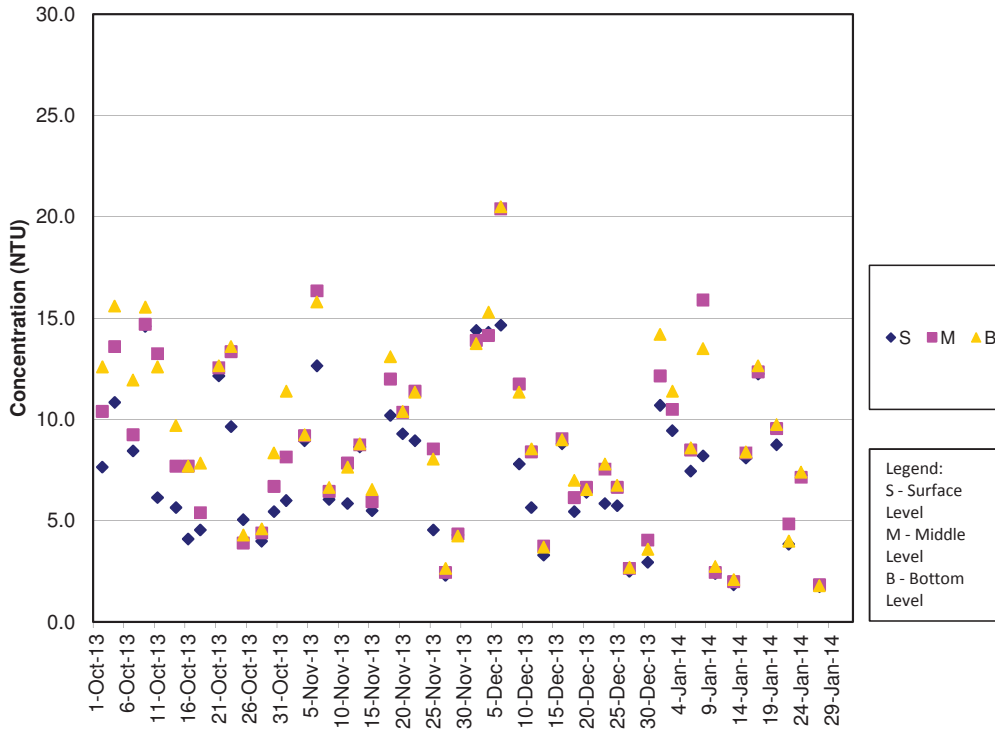


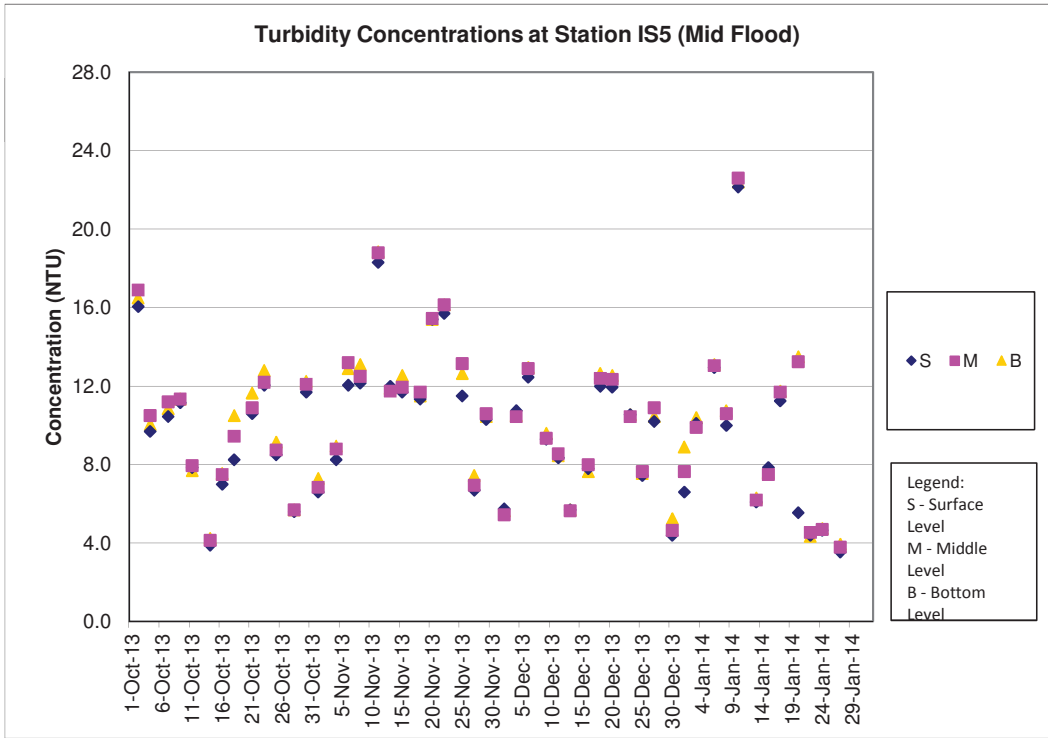
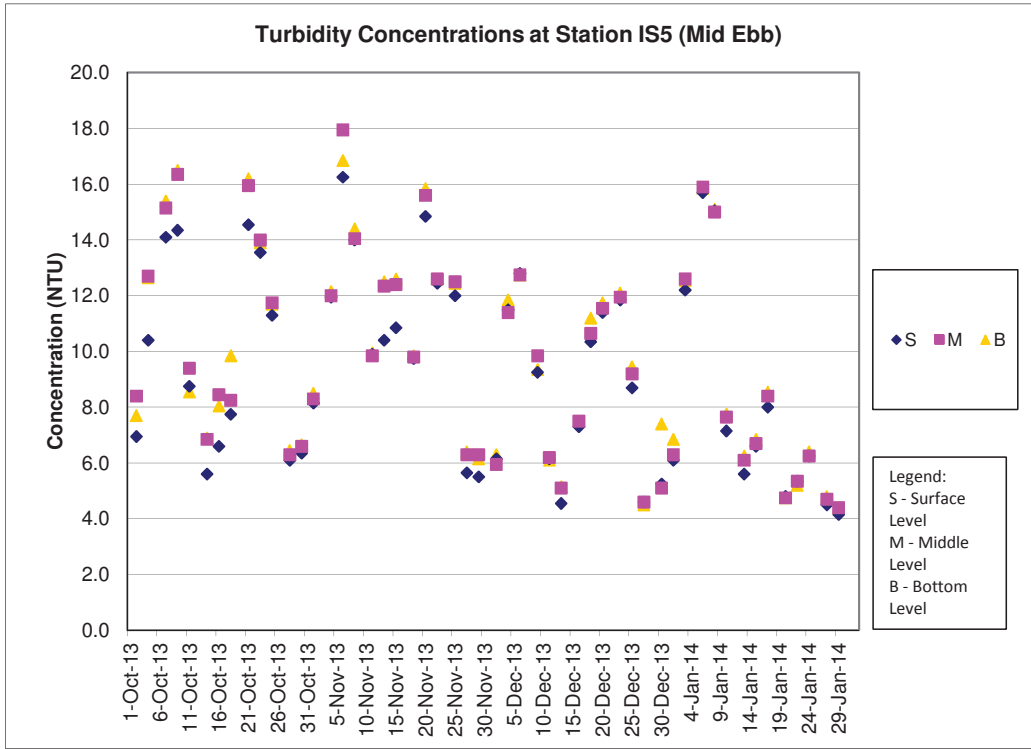


Turbidity Concentrations at Station CS(Mf)5 (Mid Ebb)

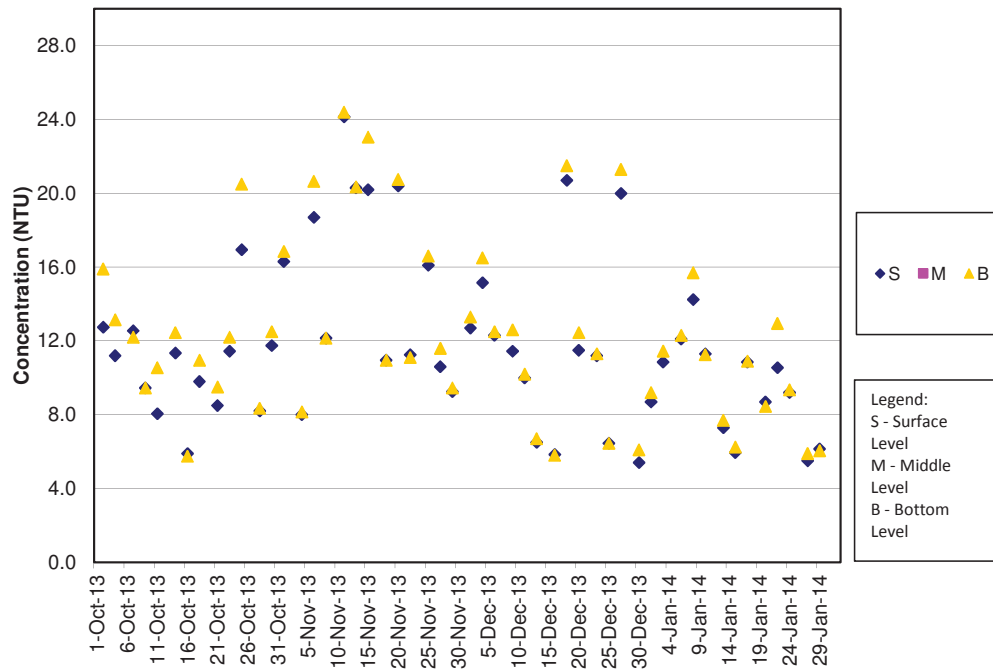


Turbidity Concentrations at Station CS(Mf)5 (Mid Flood)

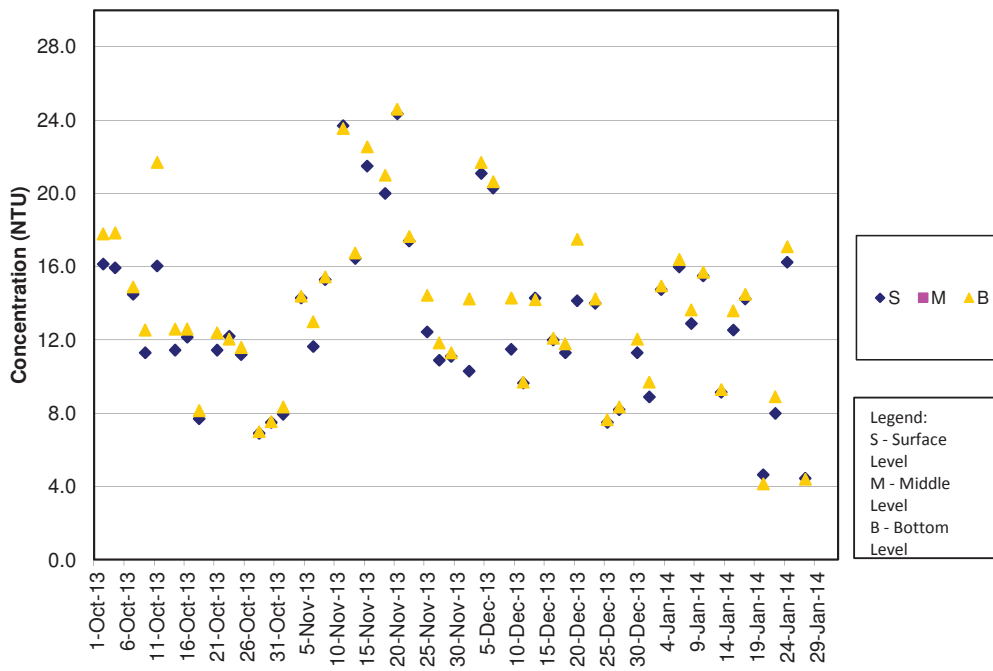




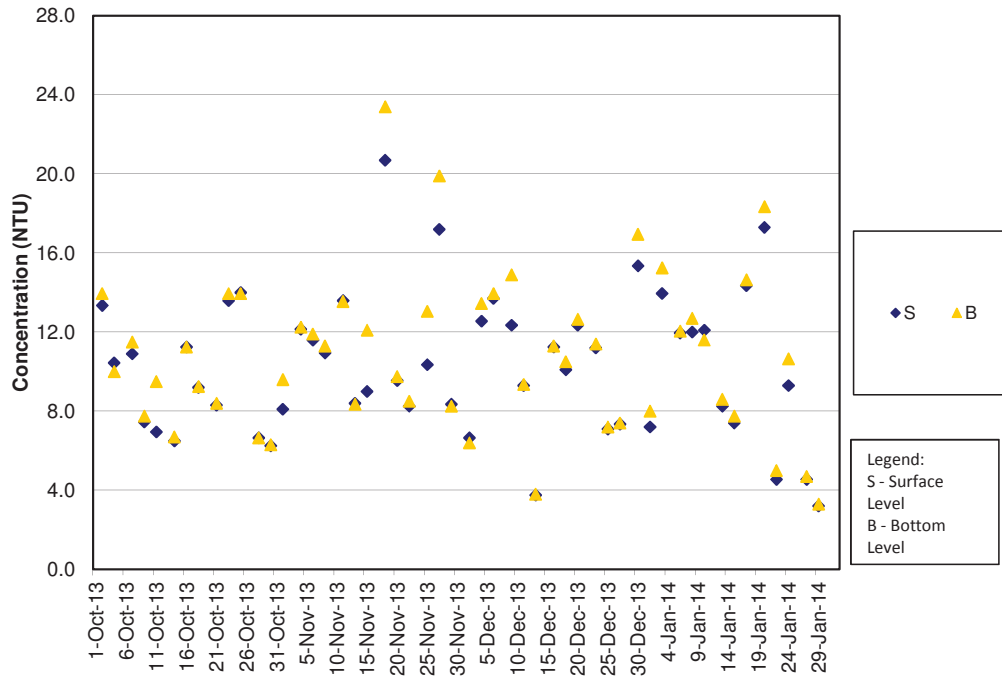
Turbidity Concentrations at Station IS(Mf)6 (Mid Ebb)



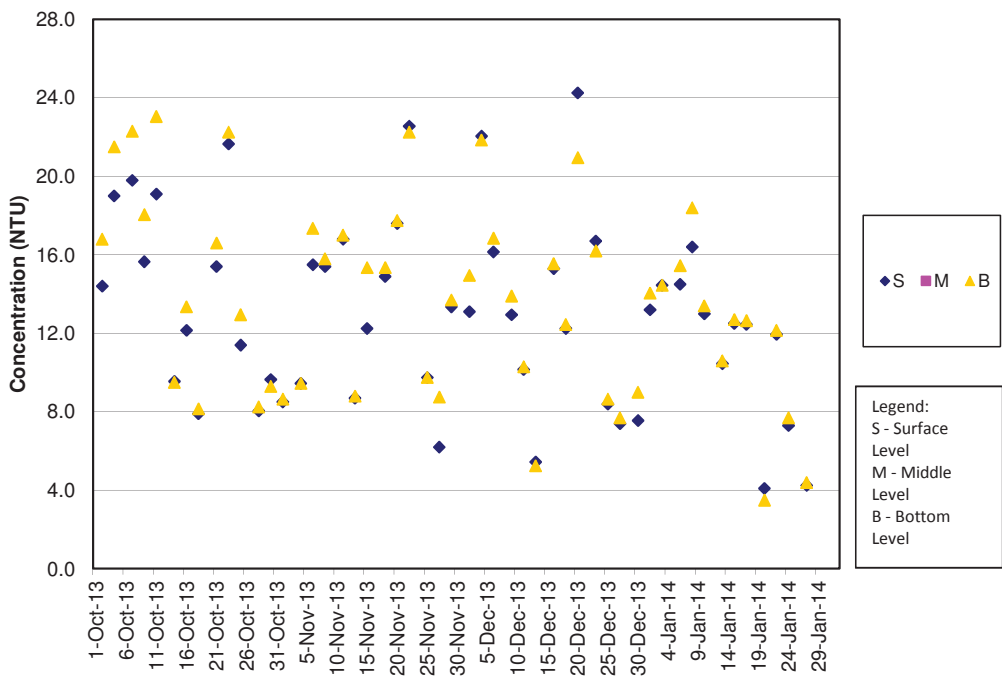
Turbidity Concentrations at Station IS(Mf)6 (Mid Flood)



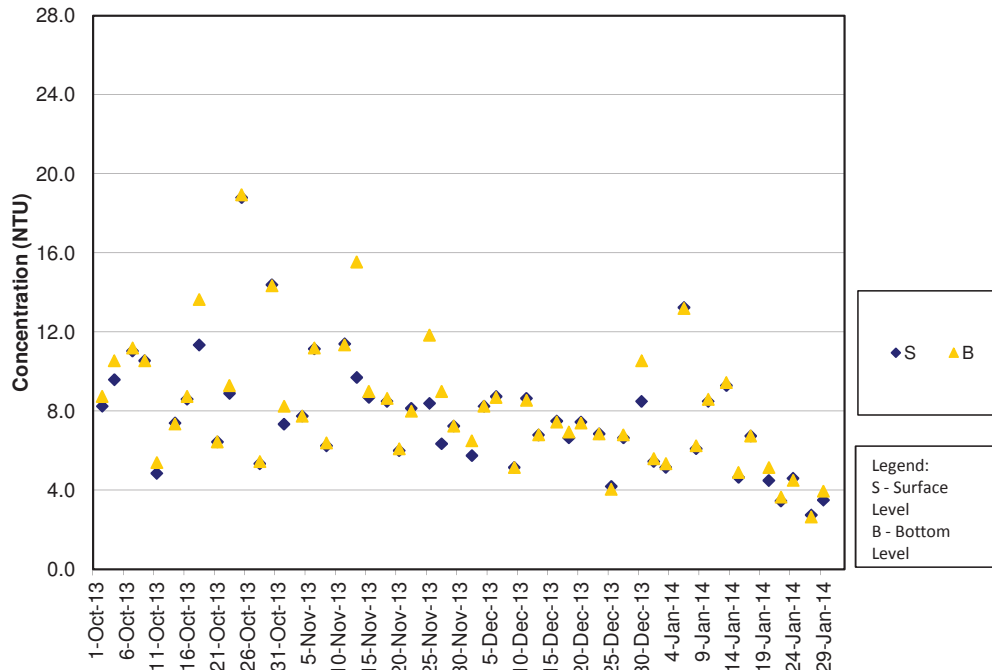
Turbidity Concentrations at Station IS7 (Mid Ebb)



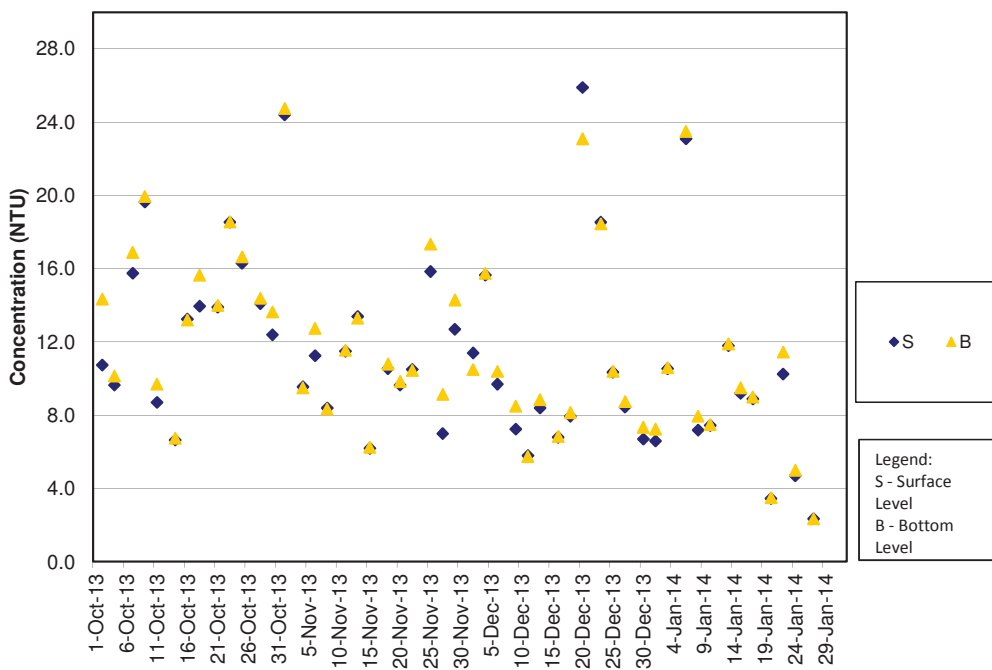
Turbidity Concentrations at Station IS7 (Mid Flood)



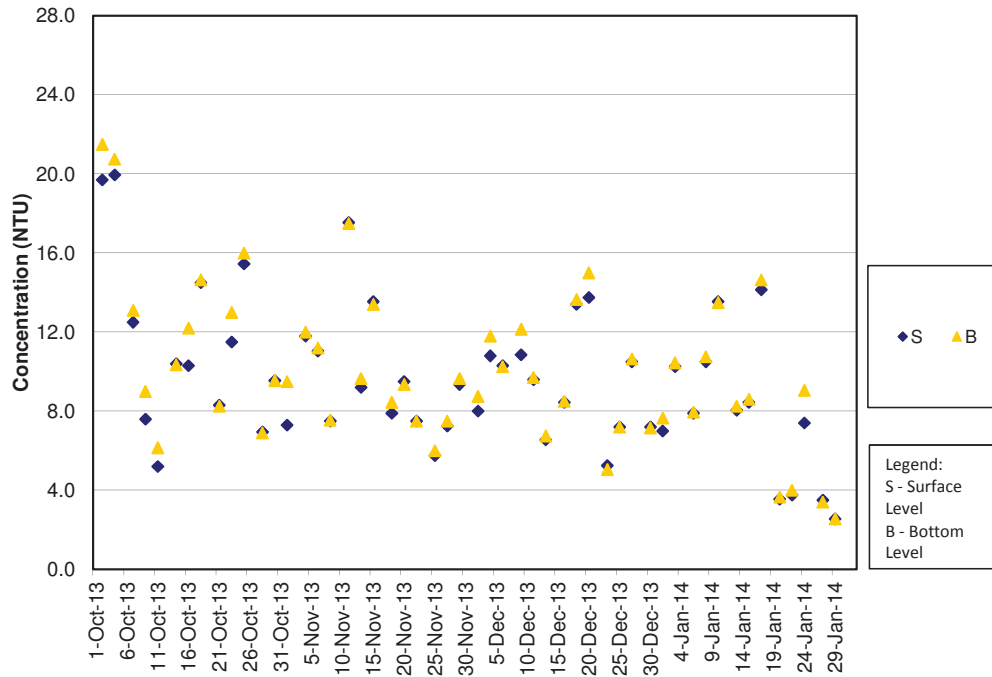
Turbidity Concentrations at Station IS8 (Mid Ebb)



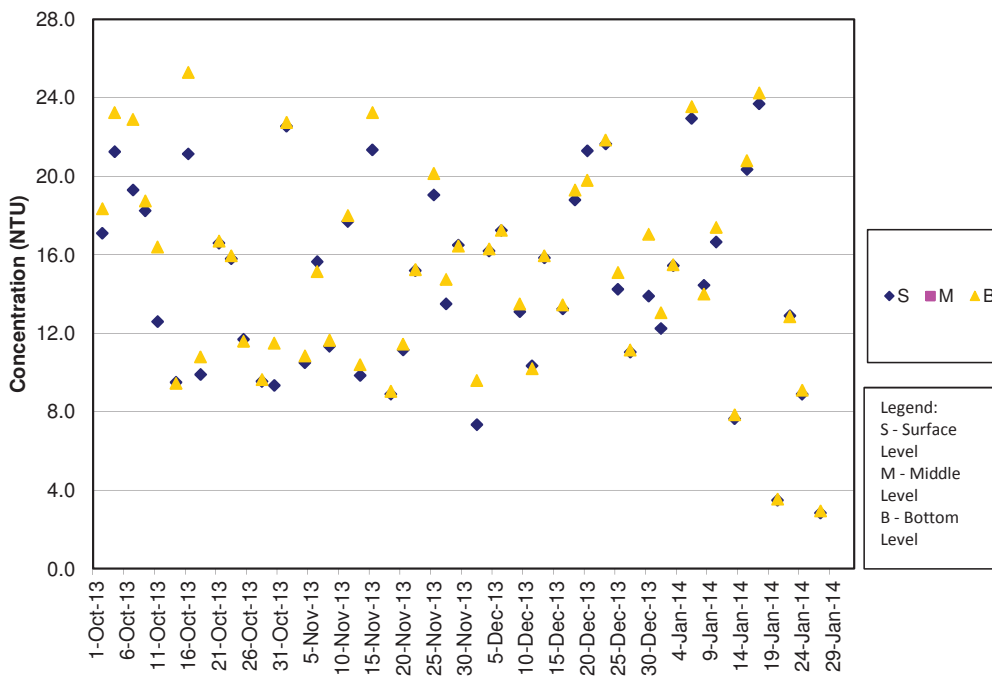
Turbidity Concentrations at Station IS8 (Mid Flood)



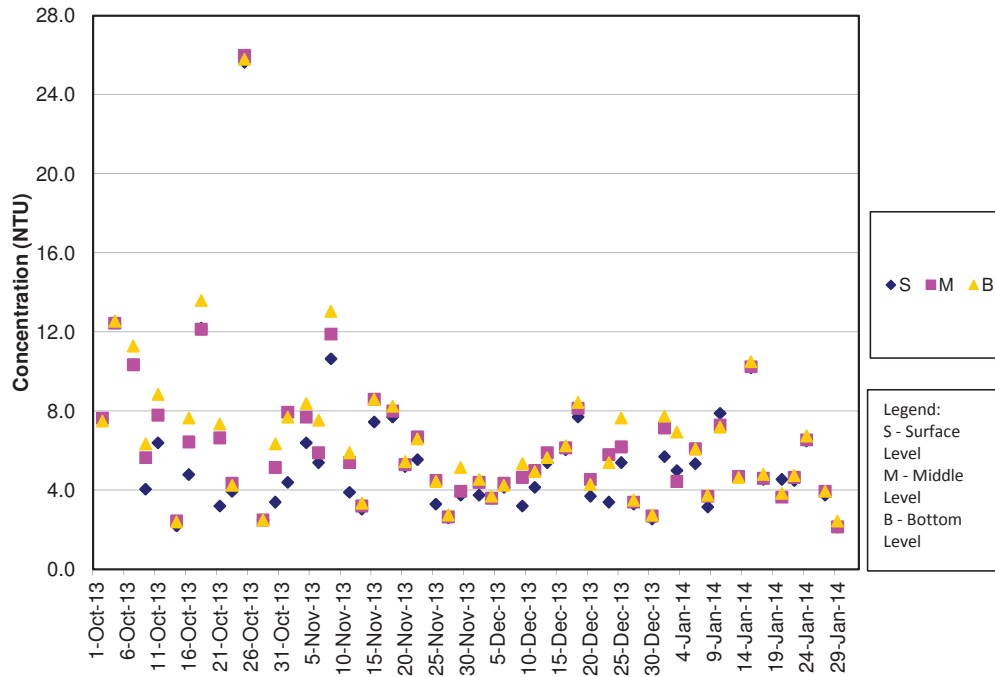
Turbidity Concentrations at Station IS(Mf)9 (Mid Ebb)



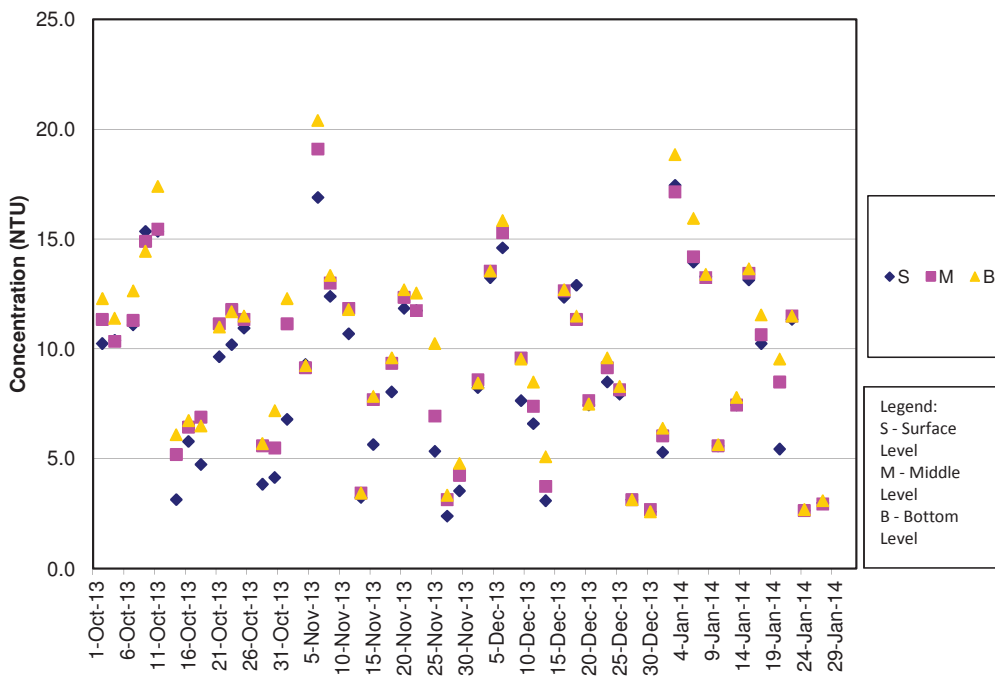
Turbidity Concentrations at Station IS(Mf)9 (Mid Flood)



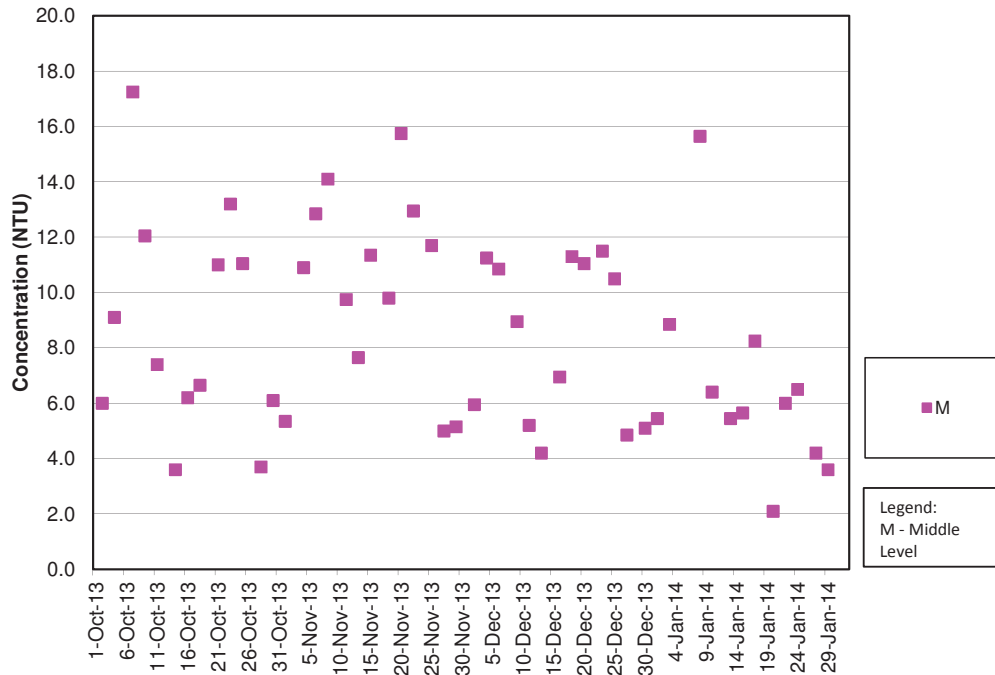
Turbidity Concentrations at Station IS10 (Mid Ebb)



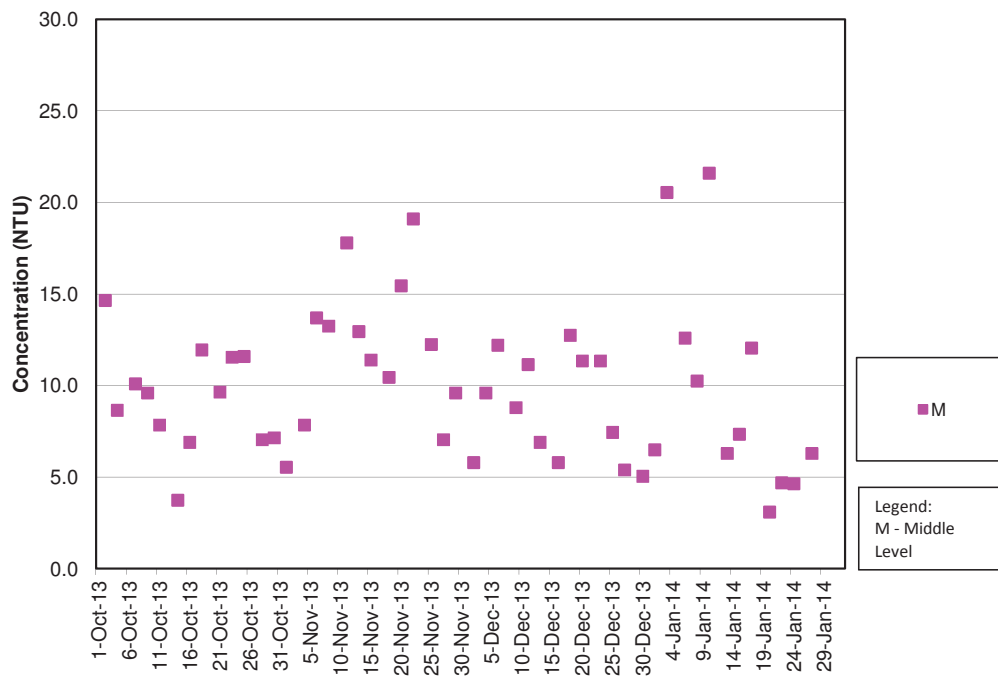
Turbidity Concentrations at Station IS10 (Mid Flood)



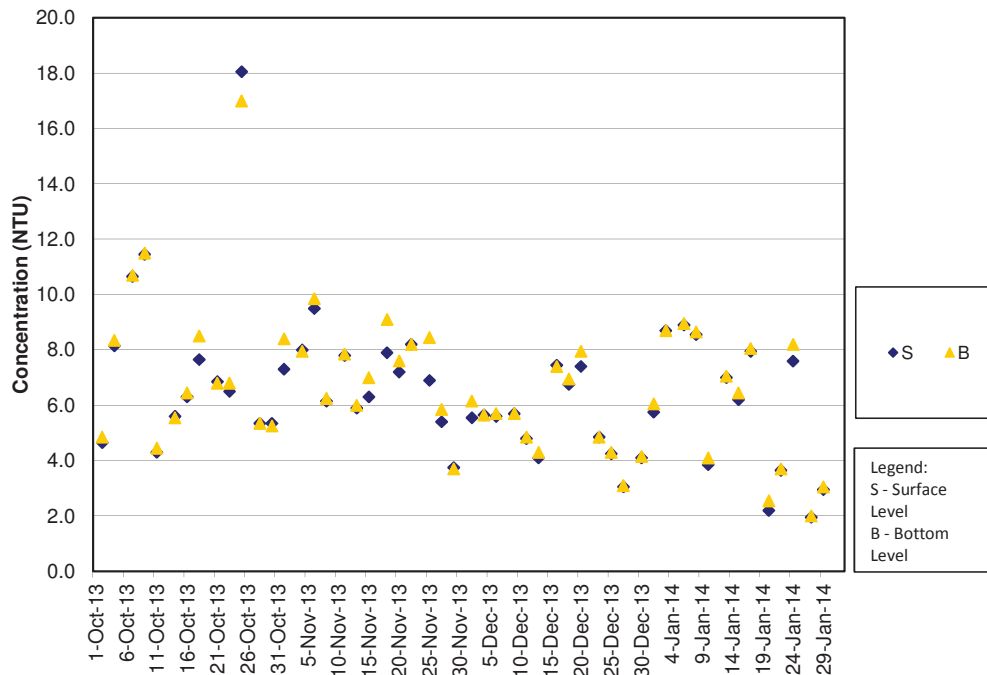
Turbidity Concentrations at Station SR3 (Mid Ebb)



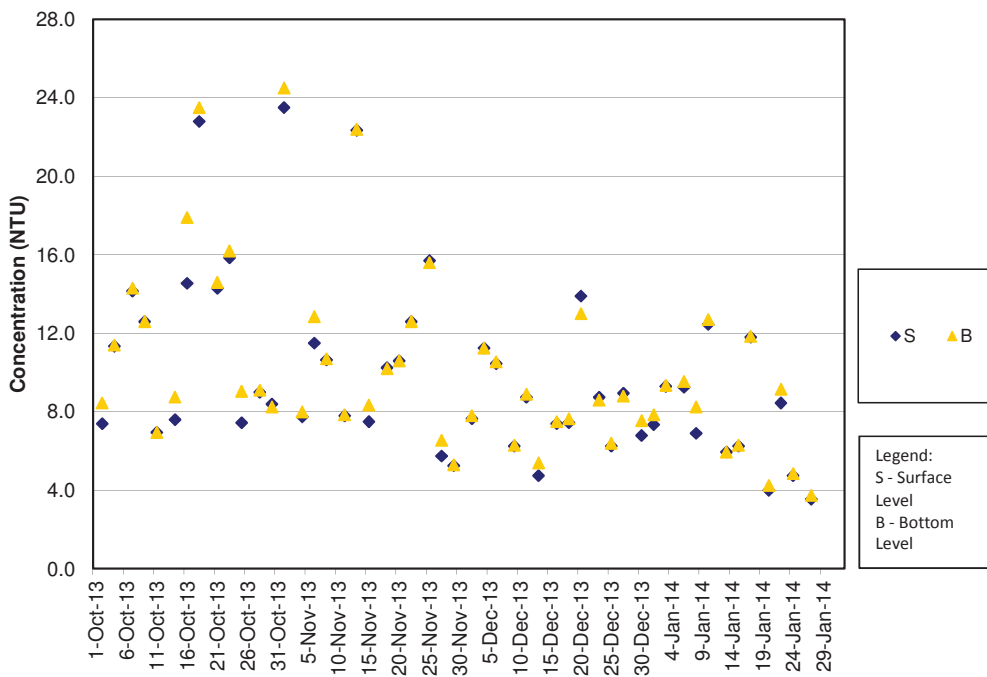
Turbidity Concentrations at Station SR3 (Mid Flood)



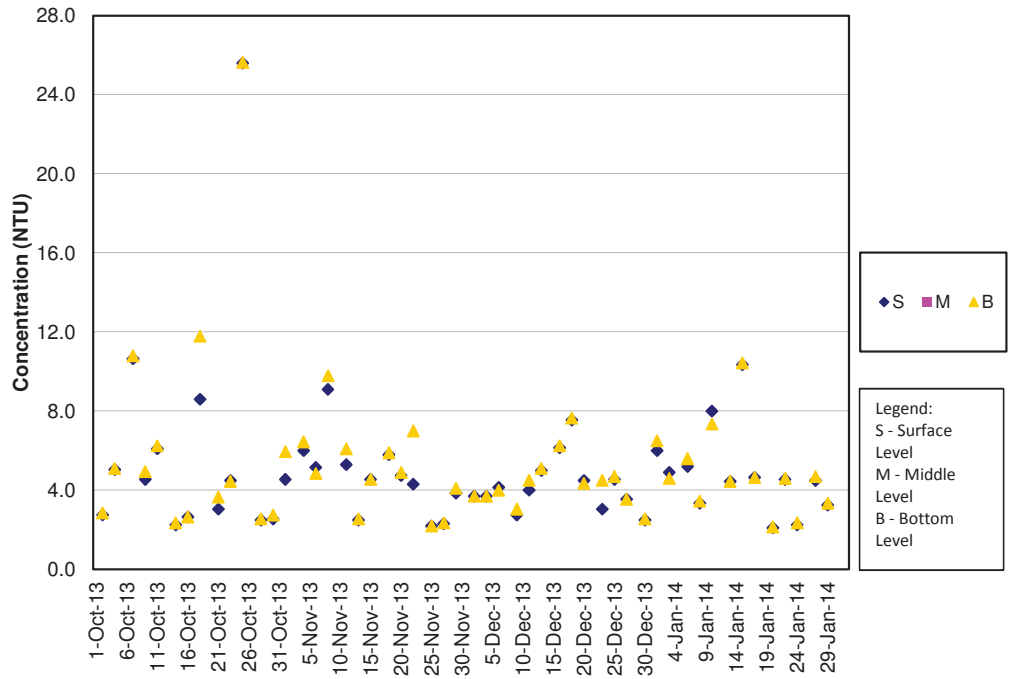
Turbidity Concentrations at Station SR4 (Mid Ebb)



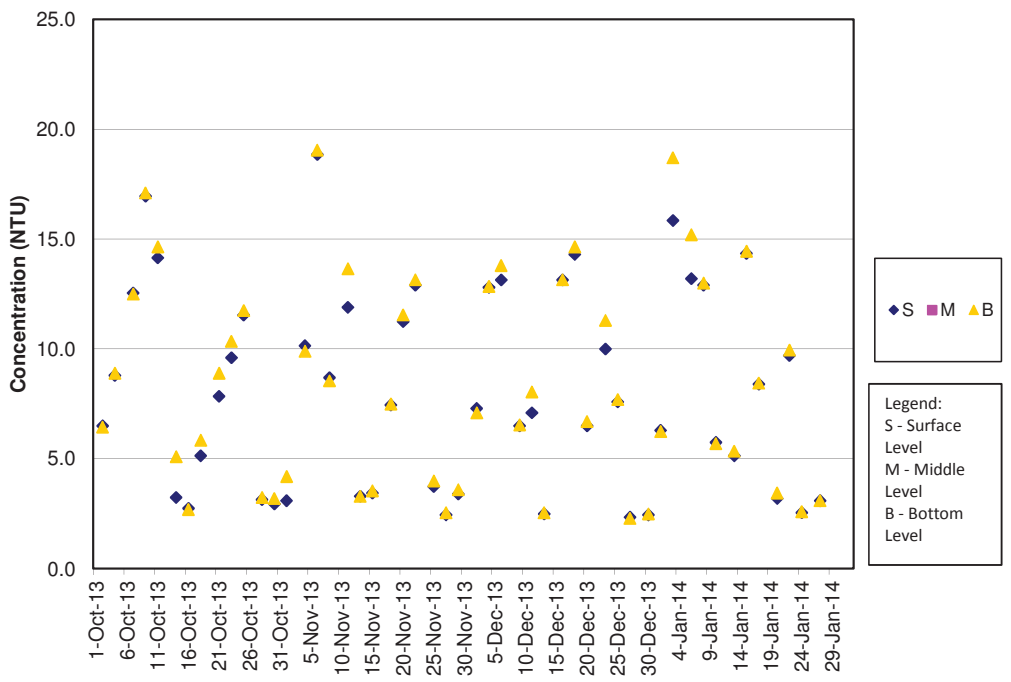
Turbidity Concentrations at Station SR4 (Mid Flood)

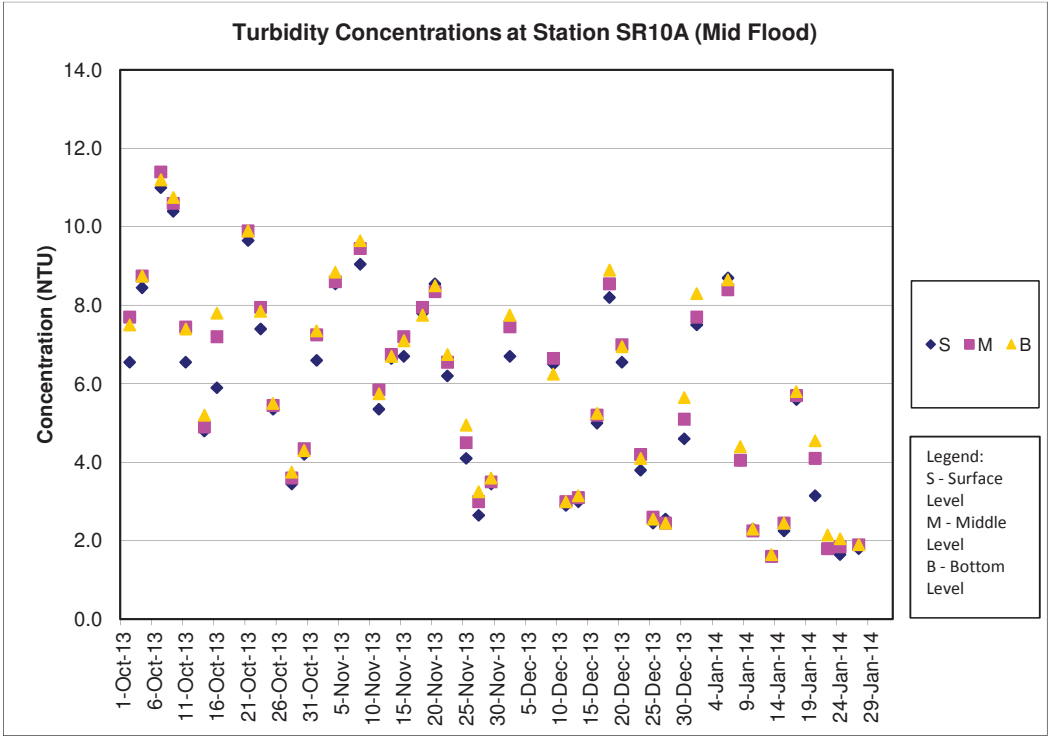
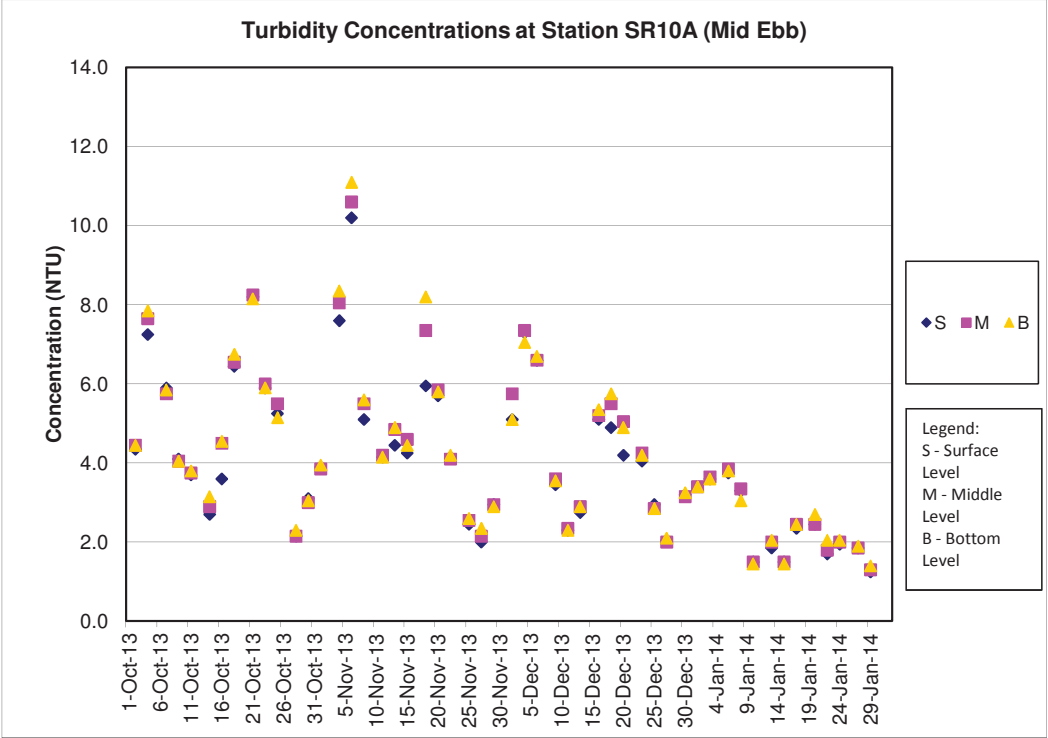


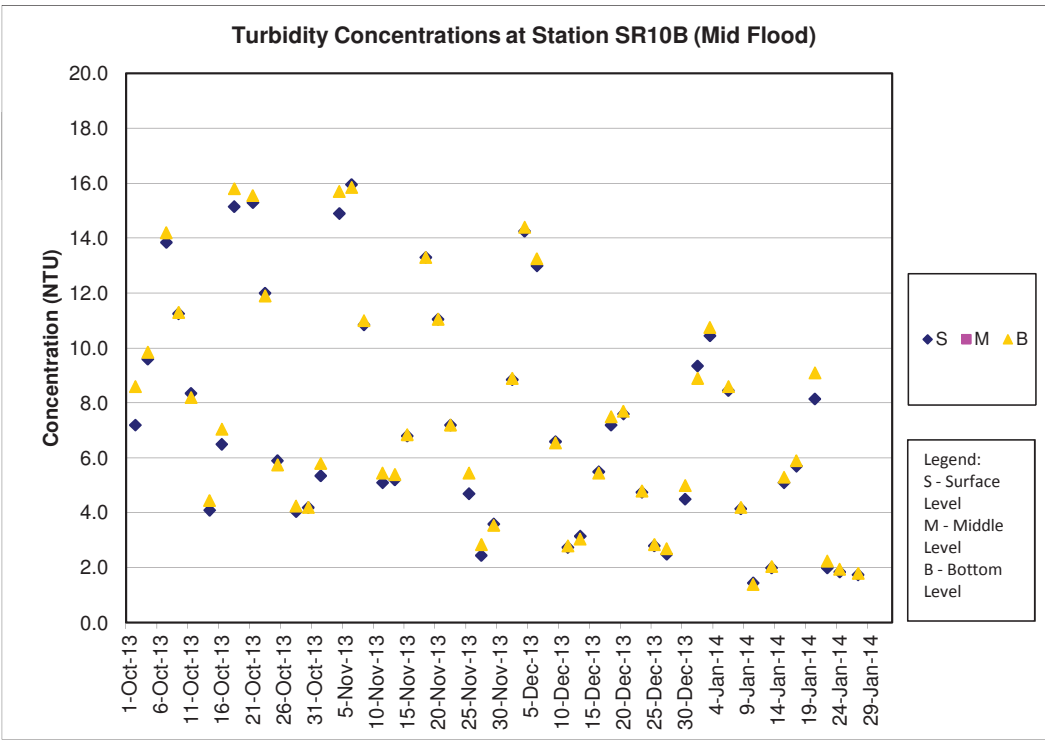
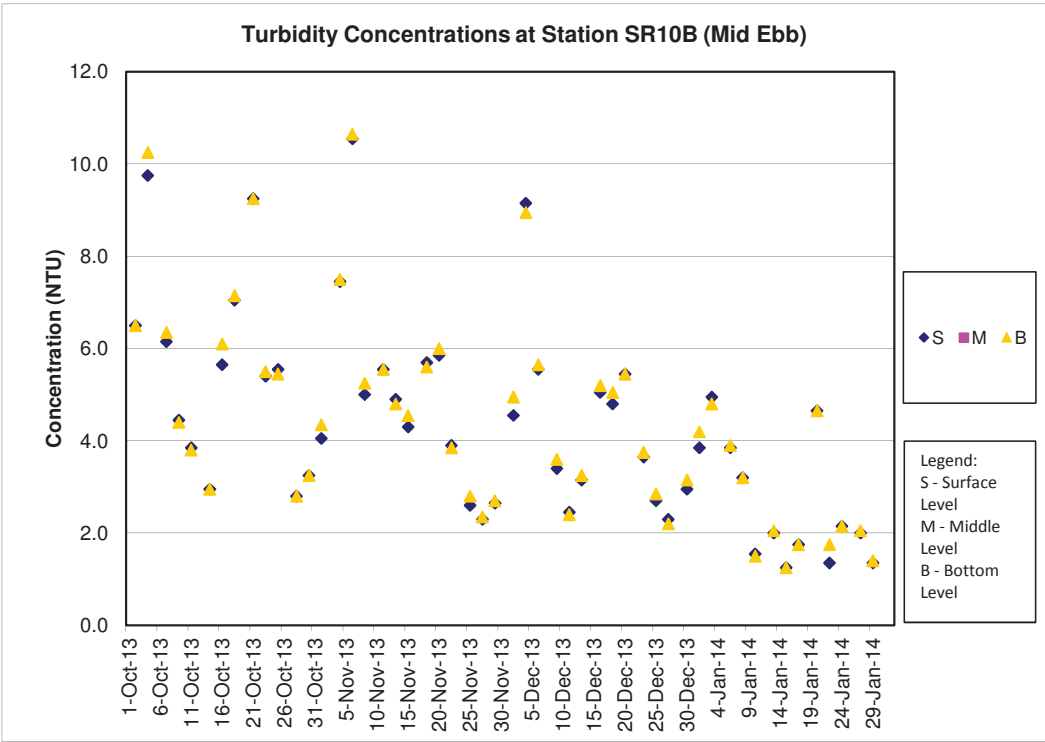
Turbidity Concentrations at Station SR5 (Mid Ebb)

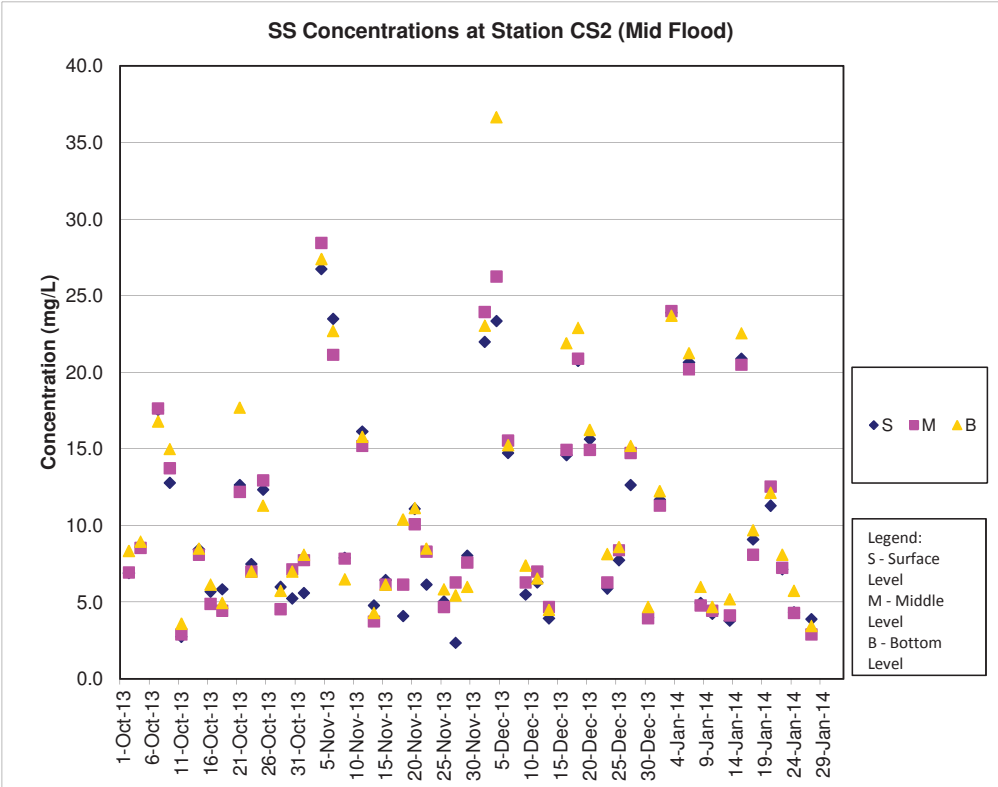
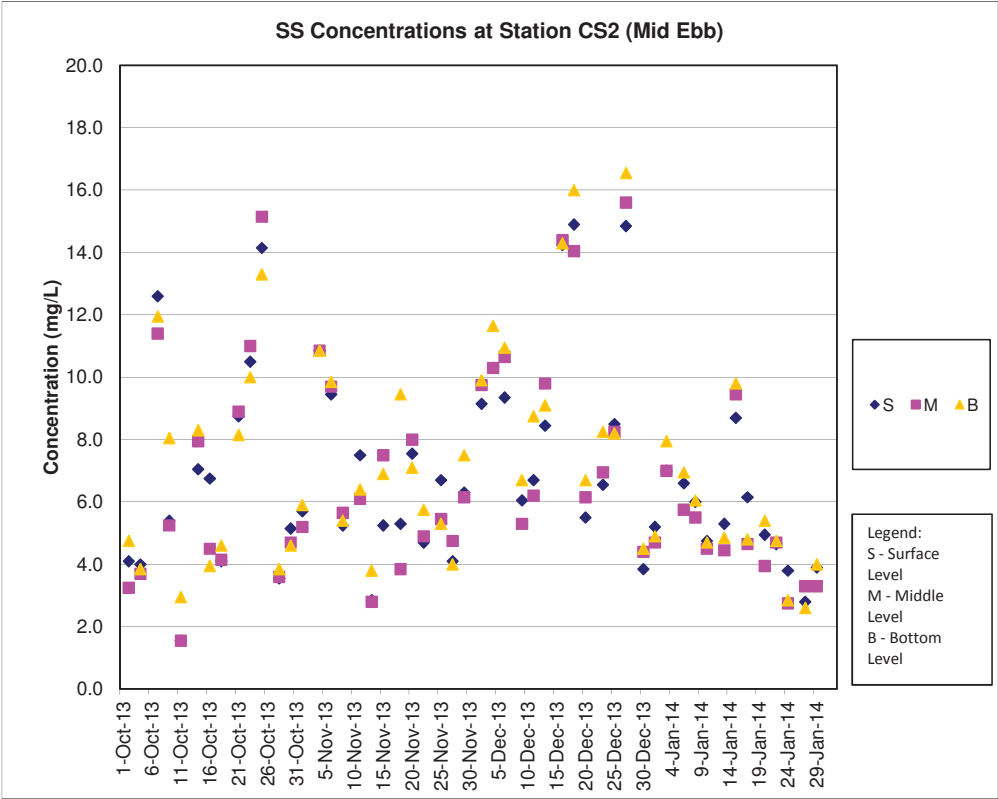


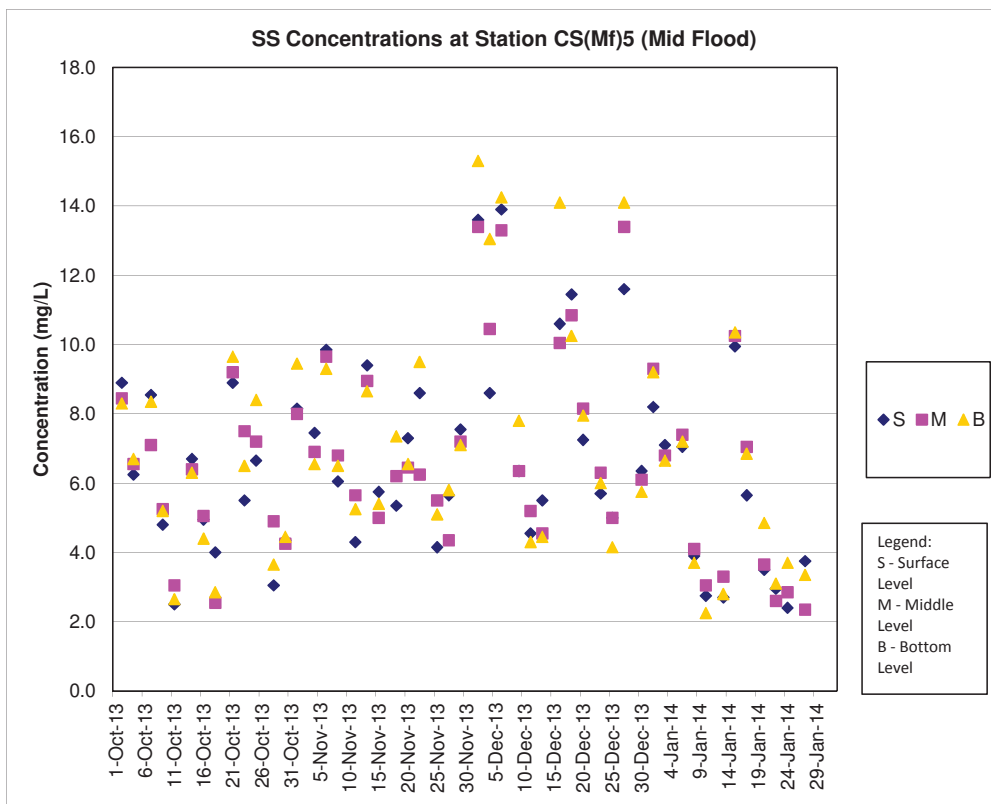
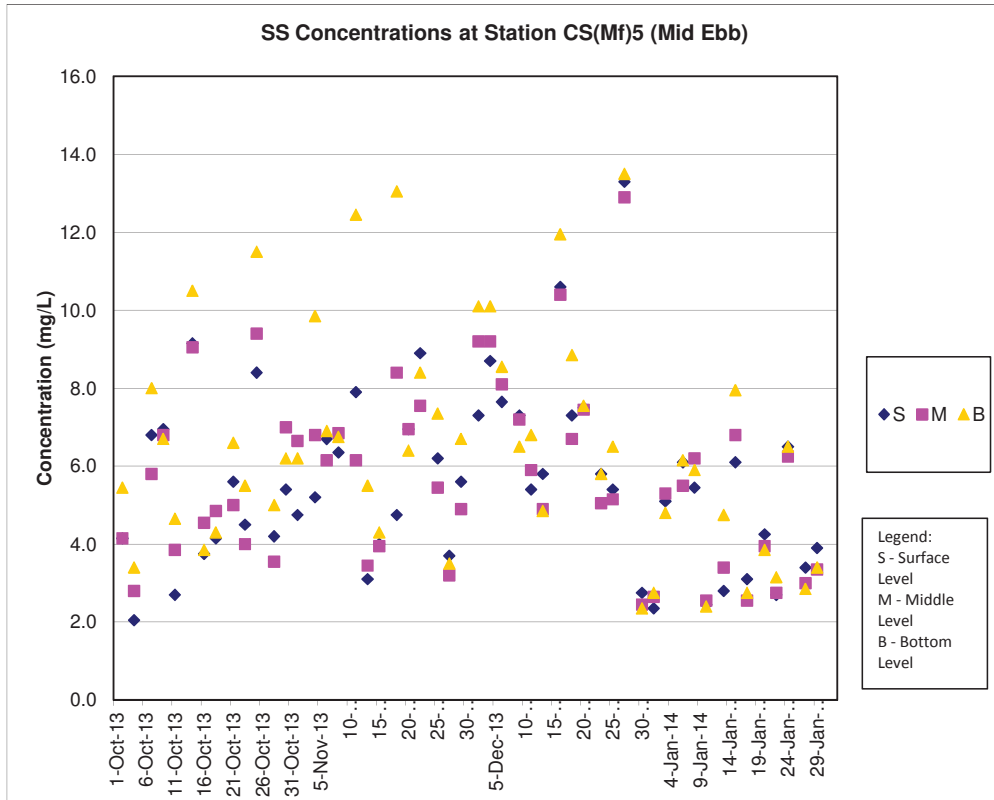
Turbidity Concentrations at Station SR5 (Mid Flood)

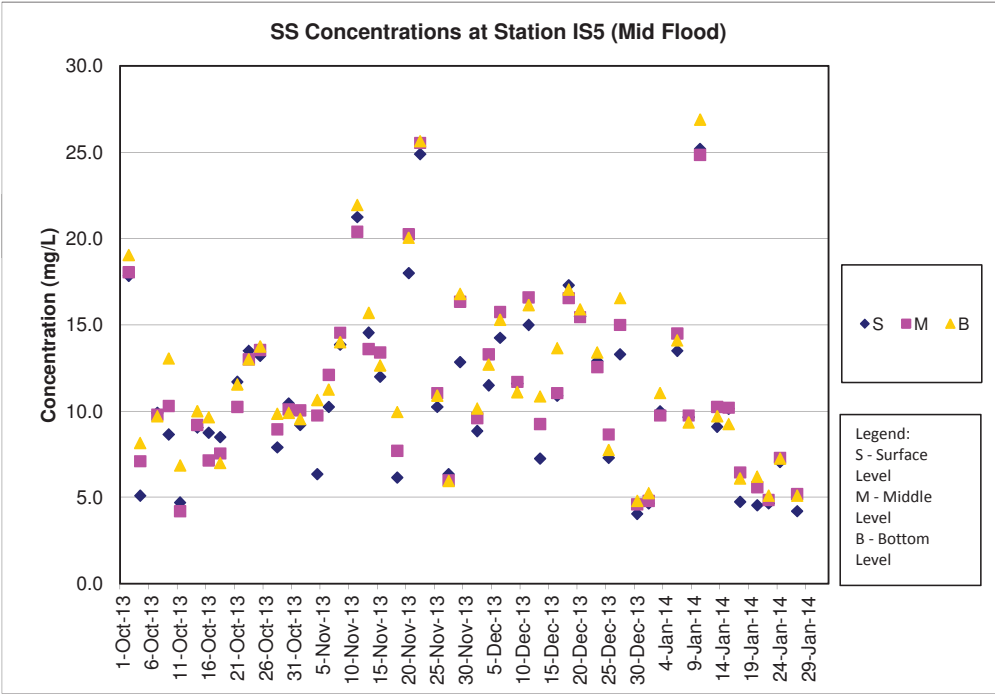
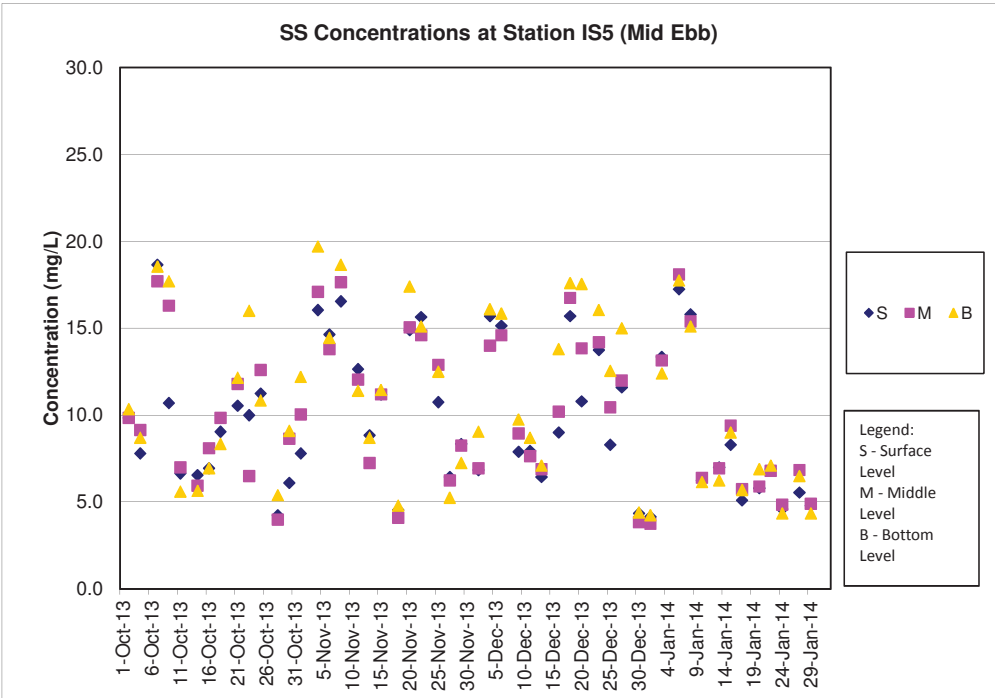


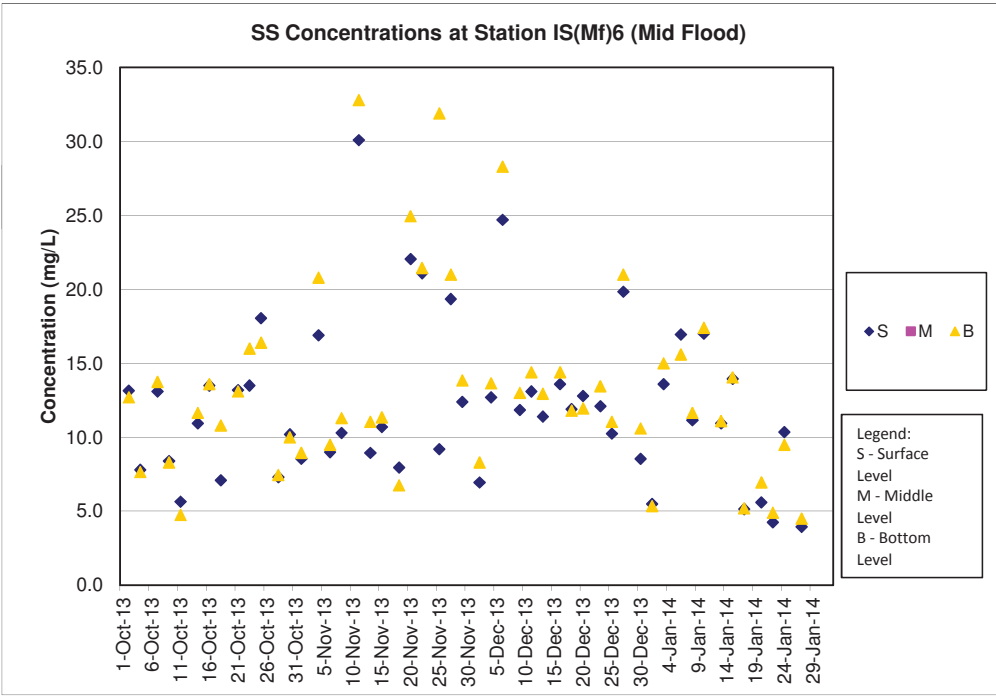
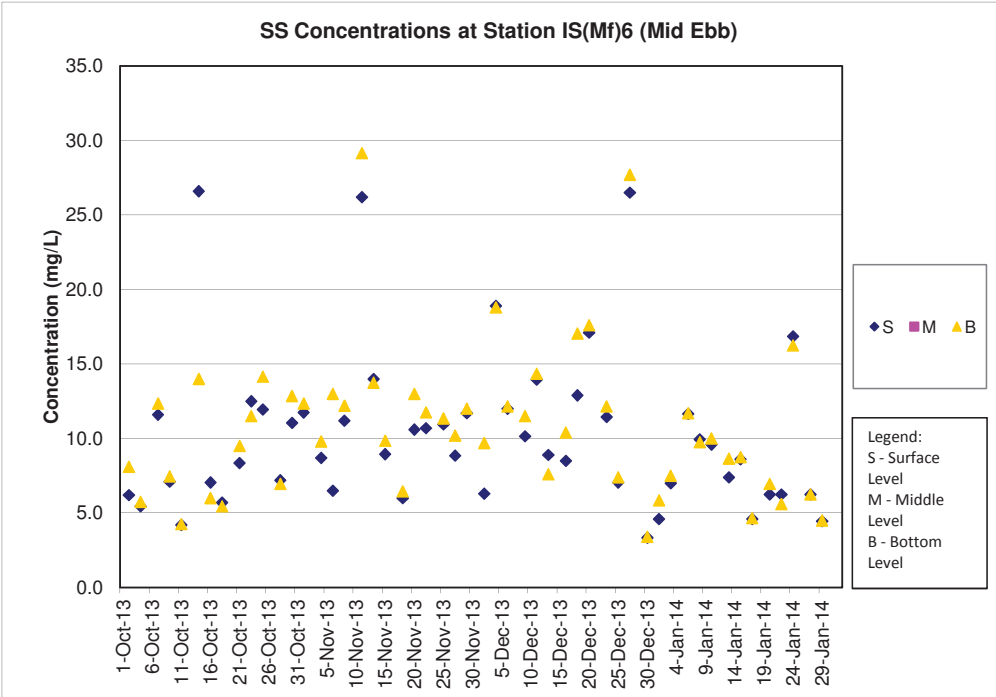


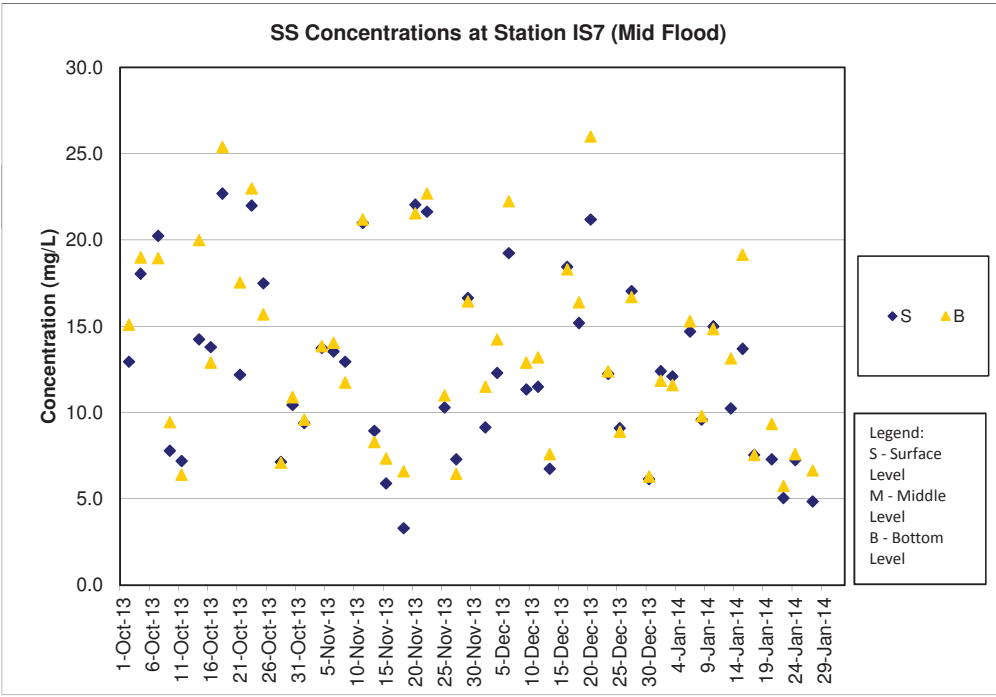
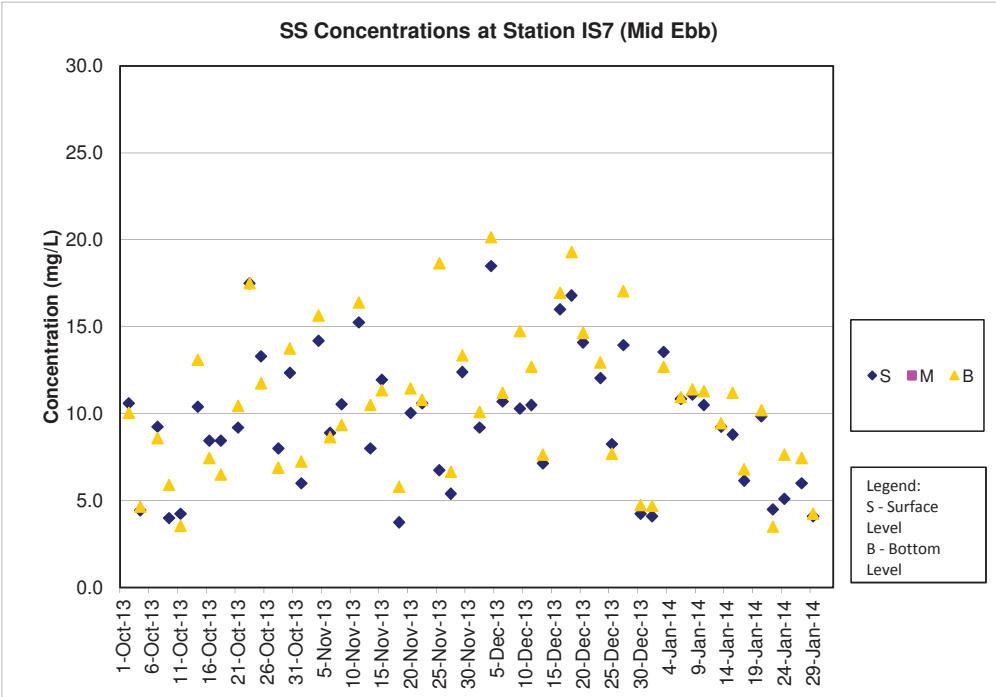


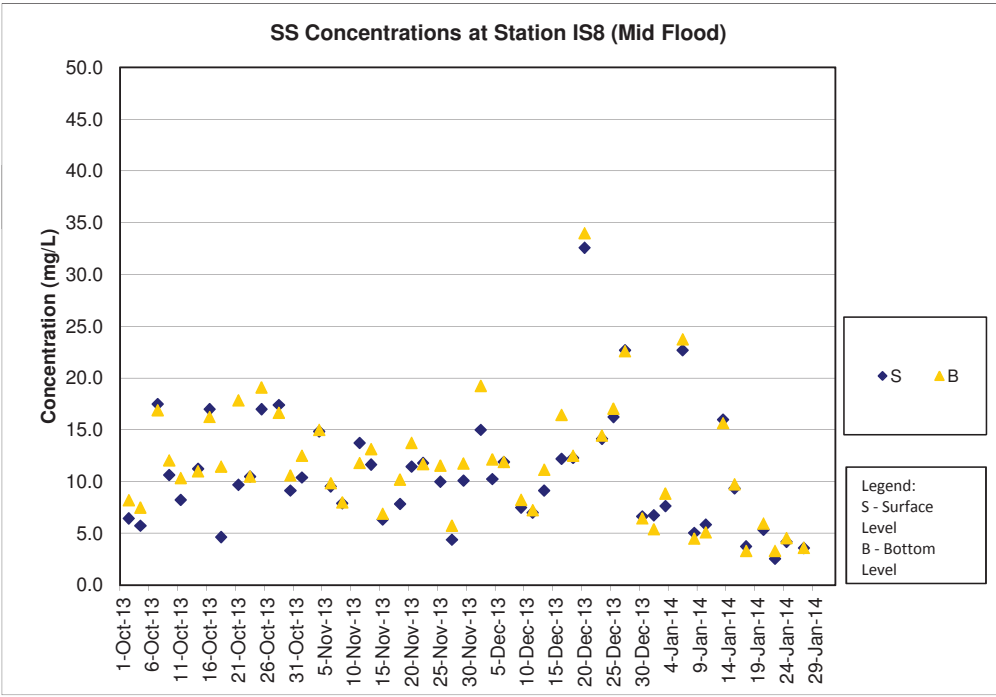
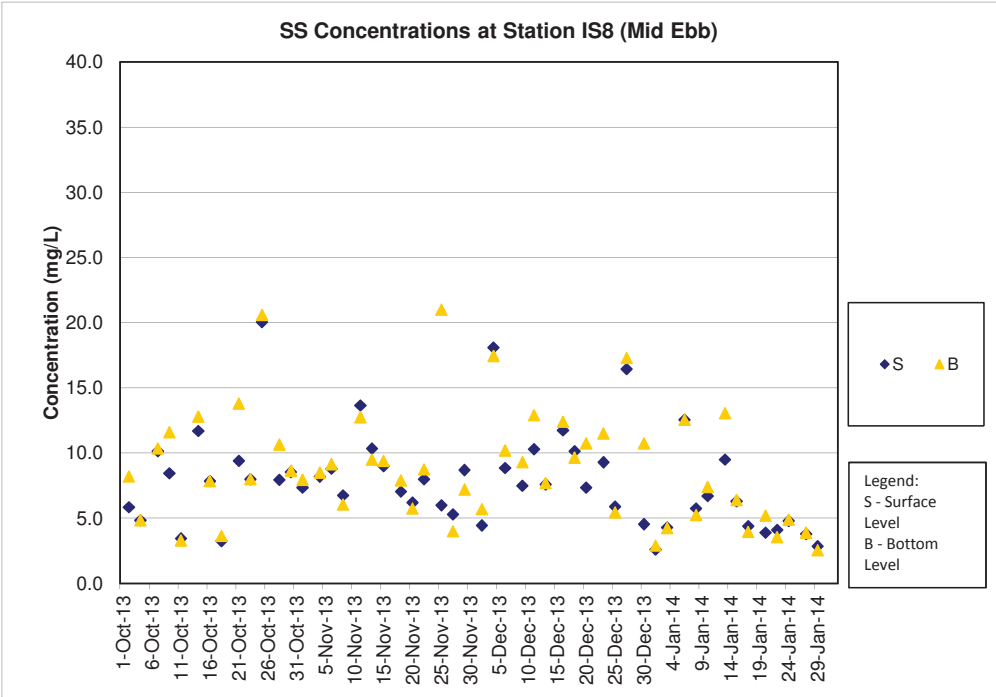


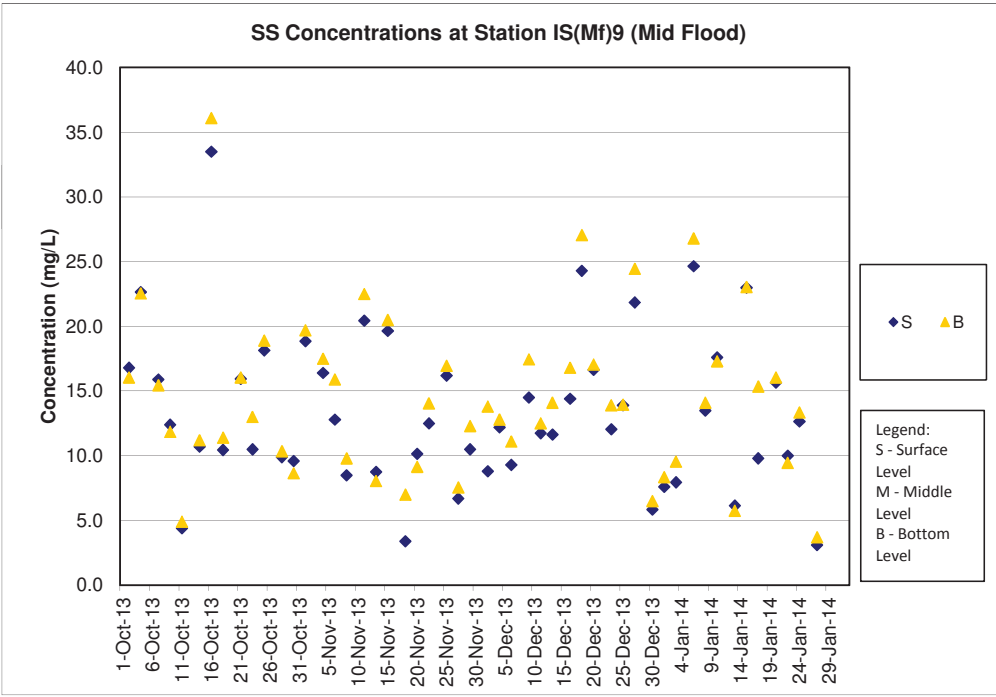
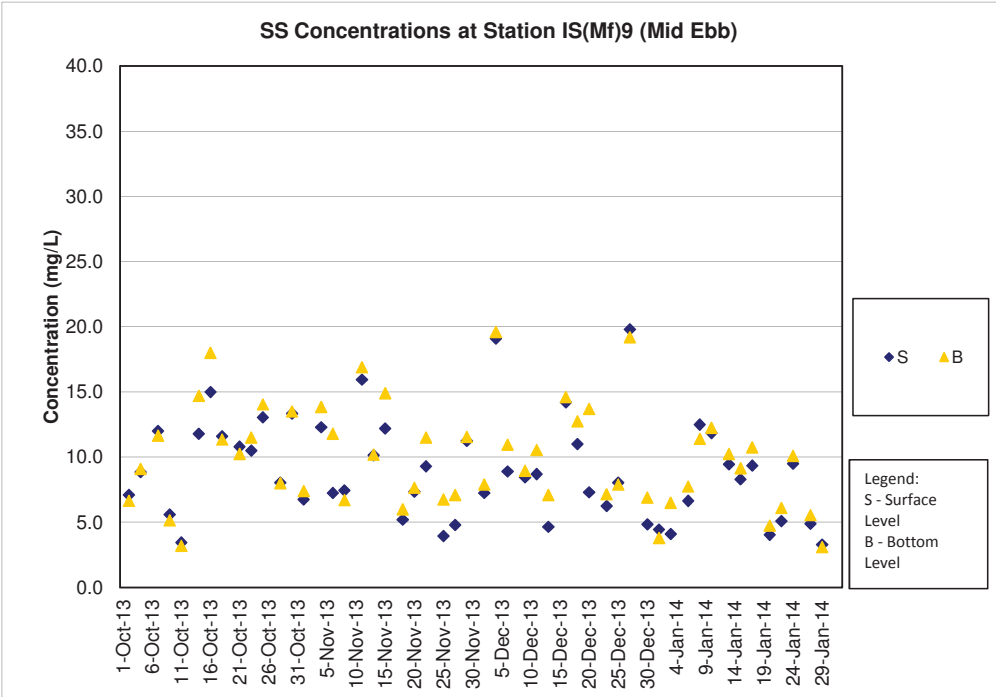


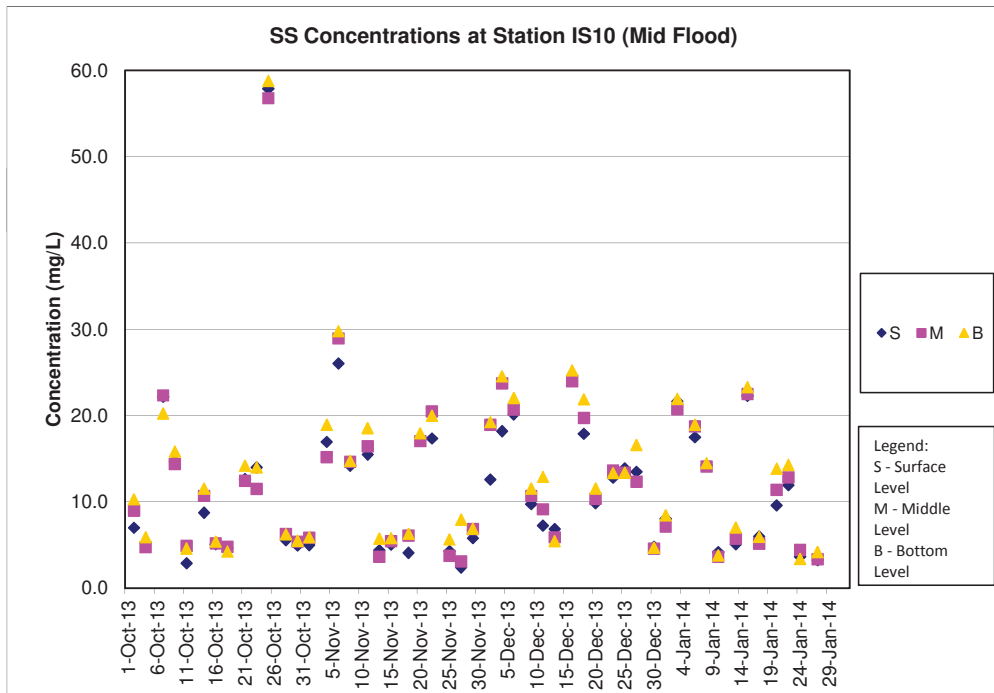
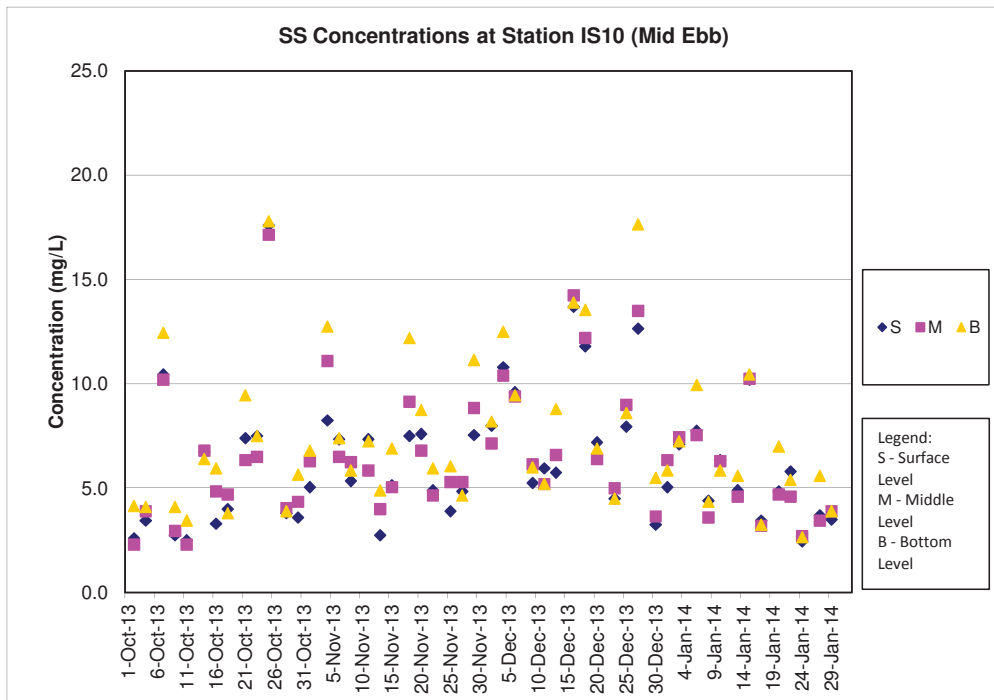


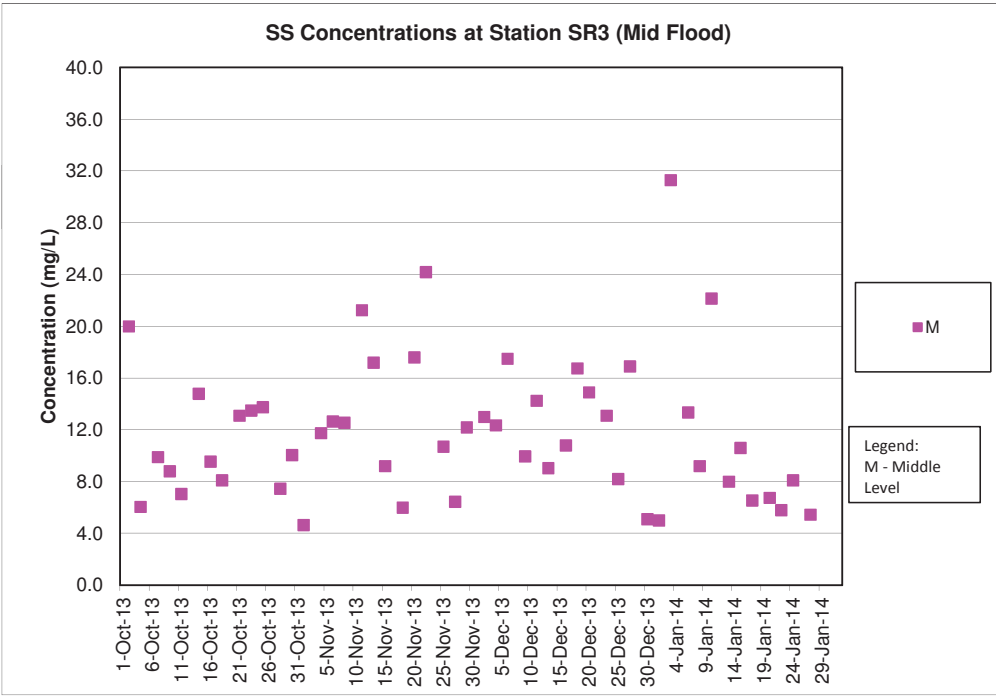
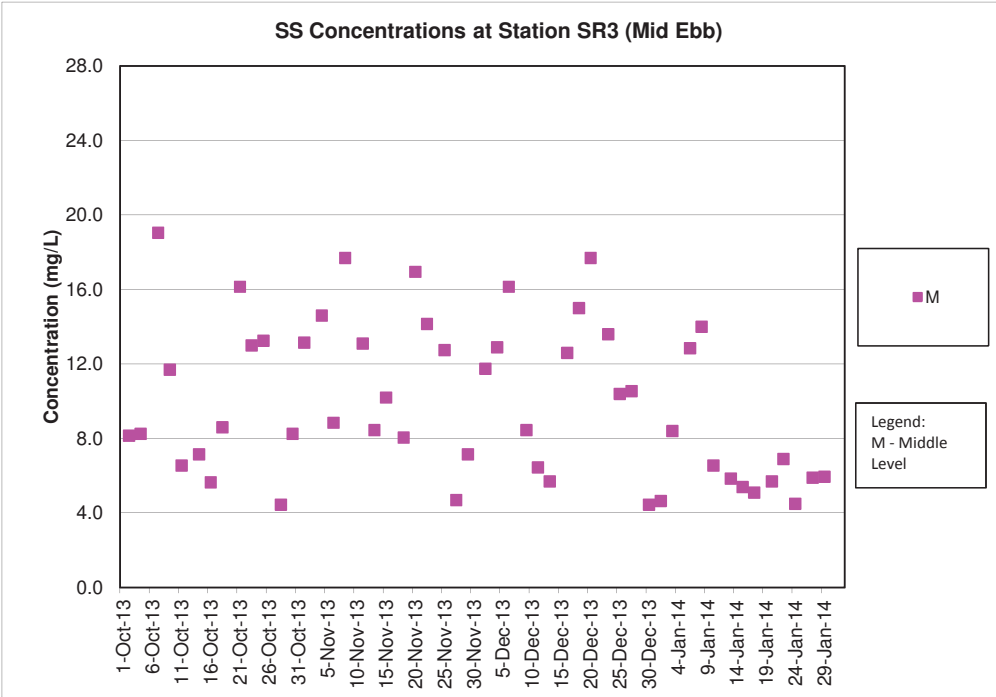


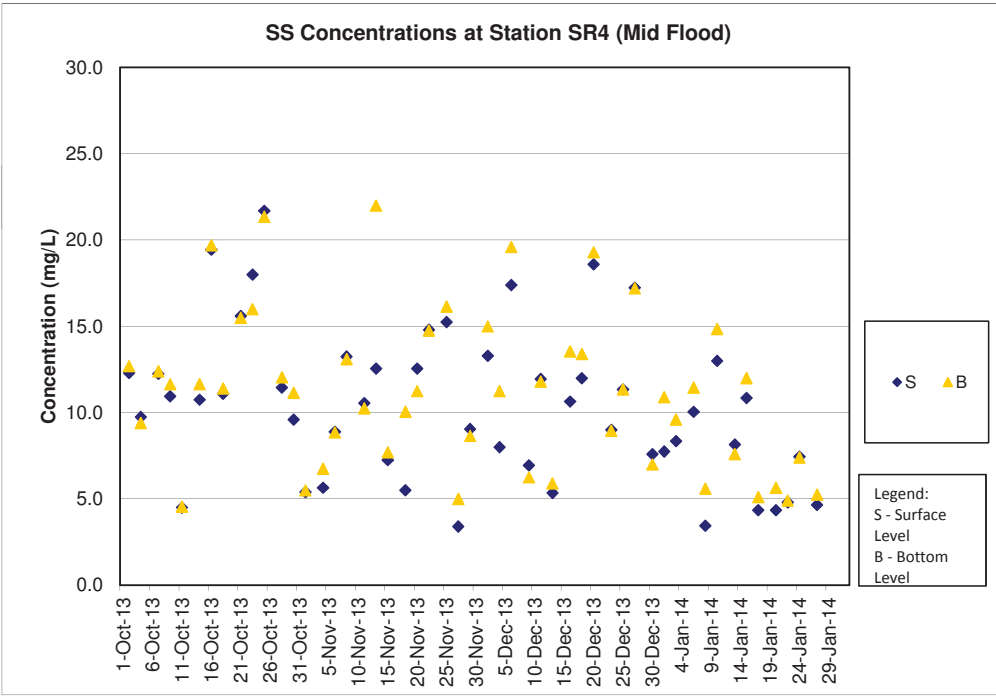
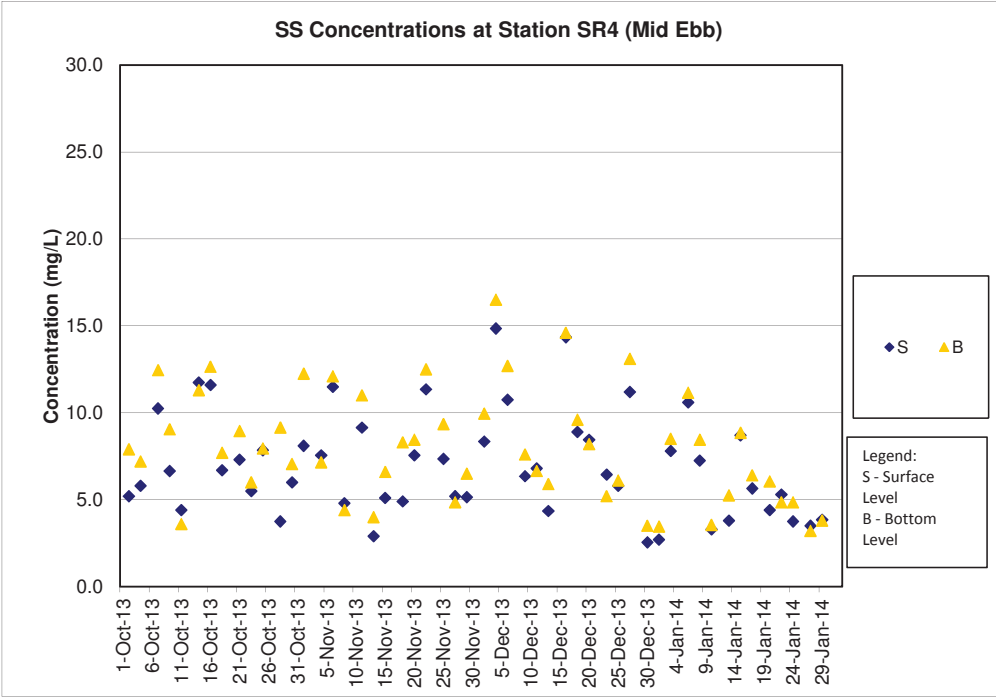


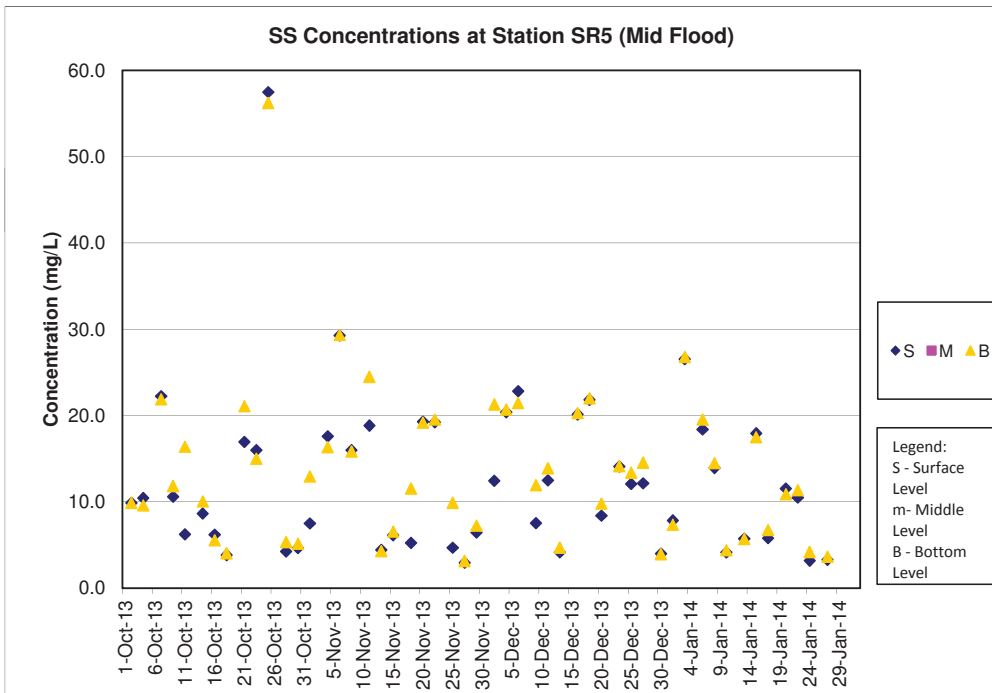
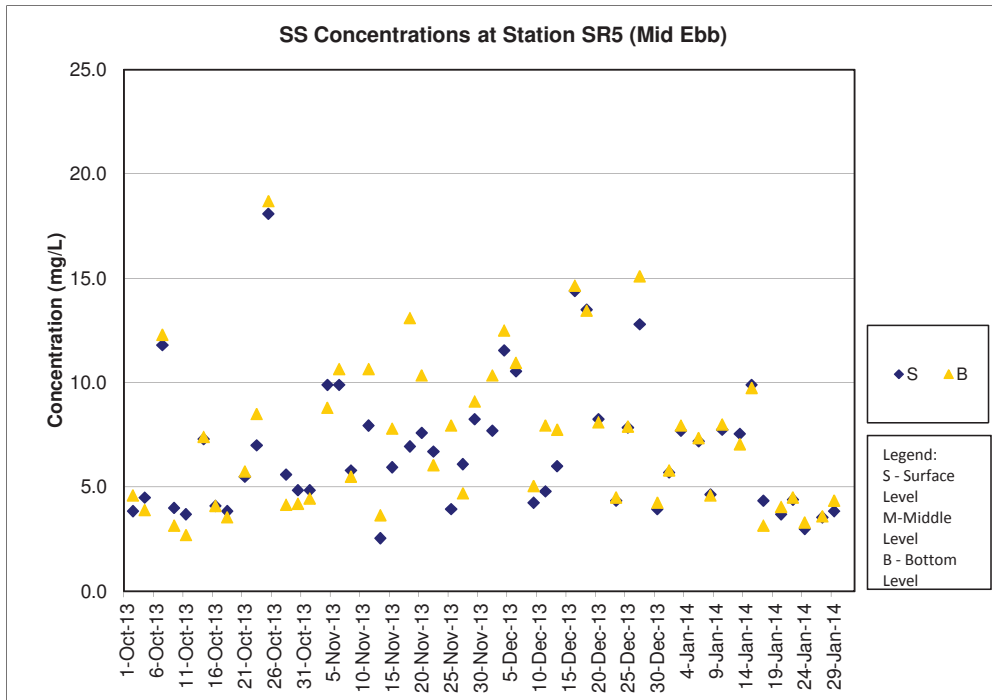


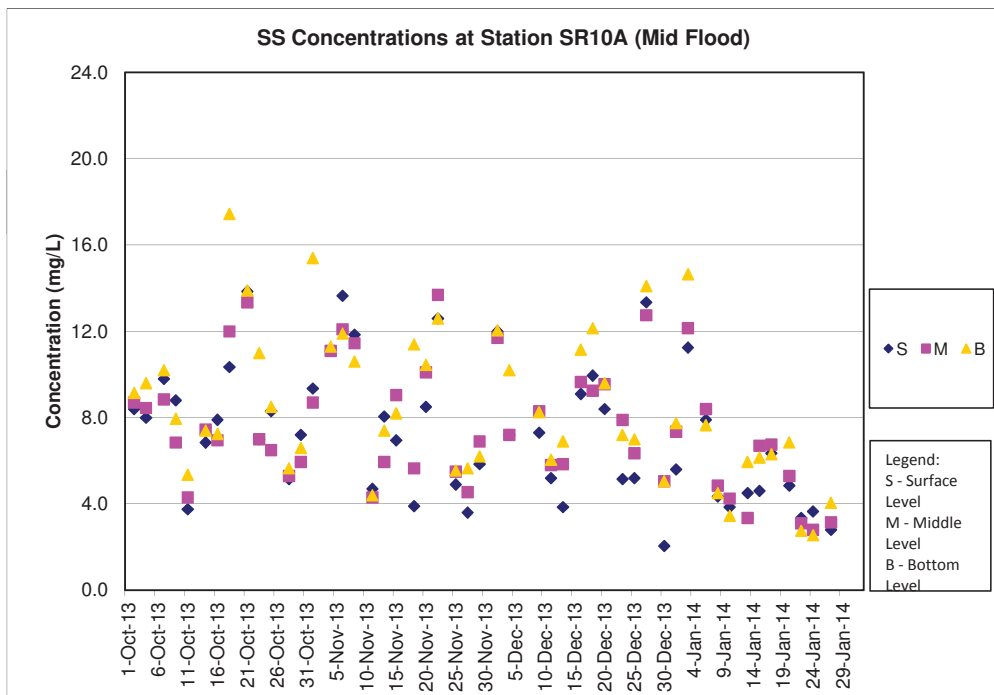
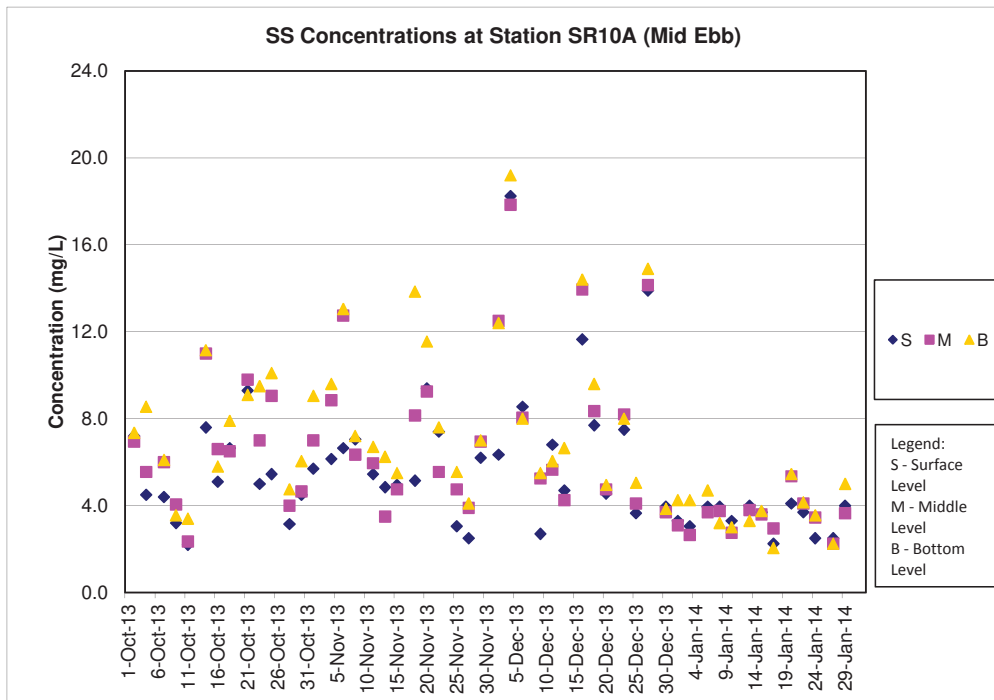


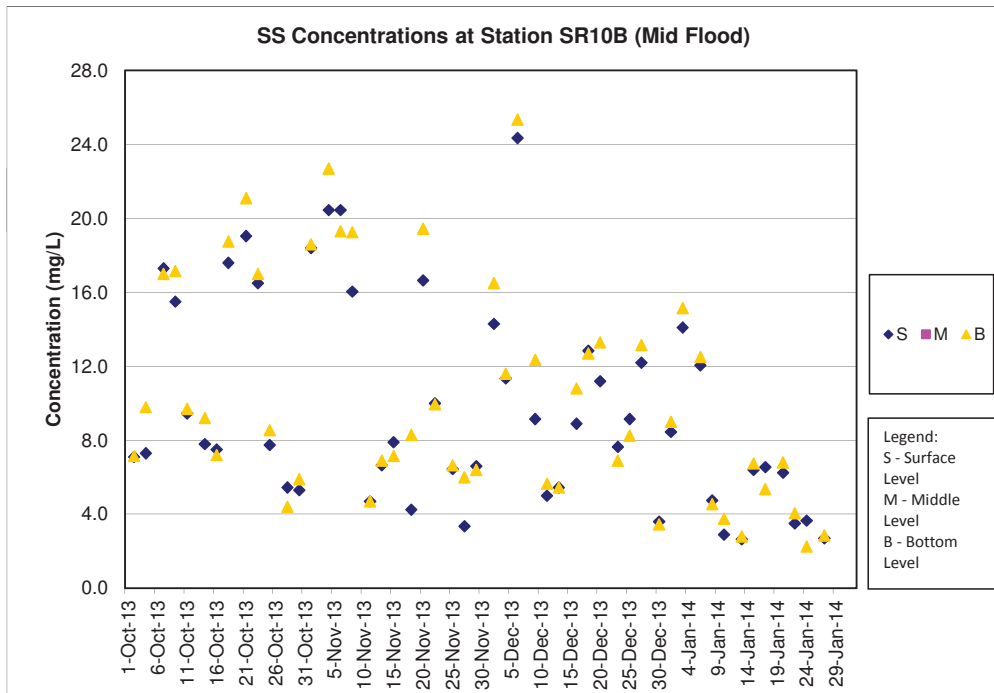
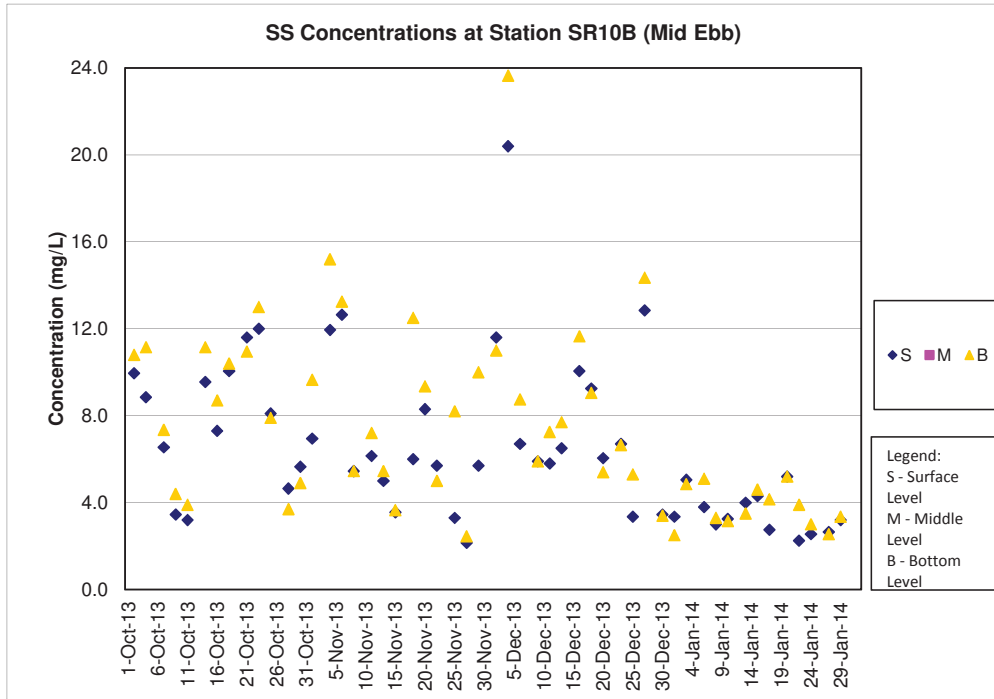














APPENDIX F

Event and Action Plan



Event and Action Plan for Air Quality

Event	Action			
	ET	IEC	SO	Contractor
Exceedance of Action Level for one sample	<ol style="list-style-type: none"> 1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Inform IEC and SO; 3. Repeat measurement to confirm finding; 4. Increase monitoring frequency to daily. 	<ol style="list-style-type: none"> 1. Check monitoring data submitted by ET; 2. Check Contractor's working method. 	<ol style="list-style-type: none"> 1. Notify Contractor. 	<ol style="list-style-type: none"> 1. Rectify any unacceptable practice; 2. Amend working methods if appropriate.
Exceedance of Action Level for two or more consecutive samples	<ol style="list-style-type: none"> 1. Identify source; 2. Inform IEC and SO; 3. Advise the SO on the effectiveness of the proposed remedial measures; 4. Repeat measurements to confirm findings; 5. Increase monitoring frequency to daily; 6. Discuss with IEC and Contractor on remedial actions required; 7. If exceedance continues, arrange meeting with IEC and SO; 8. If exceedance stops, cease additional monitoring. 	<ol style="list-style-type: none"> 1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss with ET and Contractor on possible remedial measures; 4. Advise the ET on the effectiveness of the proposed remedial measures; 5. Supervise Implementation of remedial measures. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 	<ol style="list-style-type: none"> 1. Submit proposals for remedial to SO within 3 working days of notification; 2. Implement the agreed proposals; 3. Amend proposal if appropriate.

Event	Action			
	ET	IEC	SO	Contractor
Exceedance of Limit Level for one sample	<ol style="list-style-type: none"> 1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Inform SO, Contractor and EPD; 3. Repeat measurement to confirm finding; 4. Increase monitoring frequency to daily; 5. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and SO informed of the results. 	<ol style="list-style-type: none"> 1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss with ET and Contractor on possible remedial measures; 4. Advise the SO on the effectiveness of the proposed remedial measures; 5. Supervise implementation of remedial measures. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Ensure remedial measures properly implemented. 	<ol style="list-style-type: none"> 1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within 3 working days of notification; 3. Implement the agreed proposals; 4. Amend proposal if appropriate.
Exceedance of Limit Level for two or more consecutive samples	<ol style="list-style-type: none"> 1. Notify IEC, SO, Contractor and EPD; 2. Identify source; 3. Repeat measurement to confirm findings; 4. Increase monitoring frequency to daily; 5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; 6. Arrange meeting with IEC and SO to discuss the remedial actions to be taken; 7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and SO informed of the results; 8. If exceedance stops, cease additional monitoring. 	<ol style="list-style-type: none"> 1. Discuss amongst SO, ET, and Contractor on the potential remedial actions; 2. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the SO accordingly; 3. Supervise the implementation of remedial measures. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. In consultation with the IEC, agree with the Contractor on the remedial measures to be implemented; 4. Ensure remedial measures properly implemented; 5. If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated. 	<ol style="list-style-type: none"> 1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within 3 working days of notification; 3. Implement the agreed proposals; 4. Resubmit proposals if problem still not under control; 5. Stop the relevant portion of works as determined by the SO until the exceedance is abated.

Event and Action Plan for Noise

Event	Action			
	ET	IEC	SO	Contractor
Exceedance of Action Level	<ol style="list-style-type: none"> 1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Notify IEC and Contractor; 3. Report the results of investigation to the IEC, SO and Contractor; 4. Discuss with the Contractor and formulate remedial measures; 5. Increase monitoring frequency to check mitigation effectiveness. 	<ol style="list-style-type: none"> 1. Review the analysed results submitted by the ET; 2. Review the proposed remedial measures by the Contractor and advise the SO accordingly; 3. Supervise the implementation of remedial measures. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Require Contractor to propose remedial measures for the analysed noise problem; 4. Ensure remedial measures are properly implemented 	<ol style="list-style-type: none"> 1. Submit noise mitigation proposals to IEC; 2. Implement noise mitigation proposals.
Exceedance of Limit Level	<ol style="list-style-type: none"> 1. Identify source; 2. Inform IEC, SO, EPD and Contractor; 3. Repeat measurements to confirm findings; 4. Increase monitoring frequency; 5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; 6. Inform IEC, SO and EPD the causes and actions taken for the exceedances; 7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and SO informed of the results; 8. If exceedance stops, cease additional monitoring. 	<ol style="list-style-type: none"> 1. Discuss amongst SO, ET, and Contractor on the potential remedial actions; 2. Review Contractors remedial actions whenever necessary to assure their effectiveness and advise the SO accordingly; 3. Supervise the implementation of remedial measures. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Require Contractor to propose remedial measures for the analysed noise problem; 4. Ensure remedial measures properly implemented; 5. If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated. 	<ol style="list-style-type: none"> 1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within 3 working days of notification; 3. Implement the agreed proposals; 4. Resubmit proposals if problem still not under control; 5. Stop the relevant portion of works as determined by the SO until the exceedance is abated.

Event and Action Plan for Water Quality

Event	Action			
	ET Leader	IEC	SO	Contractor
Action level being exceeded by one sampling day	<ol style="list-style-type: none"> 1. Repeat in situ measurement on next day of exceedance to confirm findings; 2. Identify source(s) of impact; 3. Inform IEC, contractor and SO; 4. Check monitoring data, all plant, equipment and Contractor's working methods. 	<ol style="list-style-type: none"> 1. Check monitoring data submitted by ET and Contractor's working methods. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of non-compliance in writing; 2. Notify Contractor. 	<ol style="list-style-type: none"> 1. Inform the SO and confirm notification of the non-compliance in writing; 2. Rectify unacceptable practice; 3. Amend working methods if appropriate.
Action level being exceeded by two or more consecutive sampling days	<ol style="list-style-type: none"> 1. Repeat measurement on next day of exceedance to confirm findings; 2. Identify source(s) of impact; 3. Inform IEC, contractor, SO and EPD; 4. Check monitoring data, all plant, equipment and Contractor's working methods; 5. Ensure mitigation measures are implemented; 6. Increase the monitoring frequency to daily until no exceedance of Action level. 	<ol style="list-style-type: none"> 1. Check monitoring data submitted by ET and Contractor's working method; 2. Discuss with ET and Contractor on possible remedial actions; 3. Review the proposed mitigation measures submitted by Contractor and advise the SO accordingly; 4. Supervise the implementation of mitigation measures. 	<ol style="list-style-type: none"> 1. Discuss with IEC on the proposed mitigation measures; 2. Ensure mitigation measures are properly implemented; 3. Assess the effectiveness of the implemented mitigation measures. 	<ol style="list-style-type: none"> 1. Inform the Engineer and confirm notification of the non-compliance in writing; 2. Rectify unacceptable practice; 3. Check all plant and equipment and consider changes of working methods; 4. Submit proposal of additional mitigation measures to SO within 3 working days of notification and discuss with ET, IEC and SO; 5. Implement the agreed mitigation measures.
Limit level being exceeded by one sampling day	<ol style="list-style-type: none"> 1. Repeat measurement on next day of exceedance to confirm findings; 2. Identify source(s) of impact; 3. Inform IEC, contractor, SO and EPD; 4. Check monitoring data, all plant, equipment and Contractor's working methods; 5. Discuss mitigation measures with IEC, SO and Contractor; 	<ol style="list-style-type: none"> 1. Check monitoring data submitted by ET and Contractor's working method; 2. Discuss with ET and Contractor on possible remedial actions; 3. Review the proposed mitigation measures submitted by Contractor and advise the SO accordingly. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing; 2. Discuss with IEC, ET and Contractor on the proposed mitigation measures; 3. Request Contractor to review the working methods. 	<ol style="list-style-type: none"> 1. Inform the SO and confirm notification of the non-compliance in writing; 2. Rectify unacceptable practice; 3. Check all plant and equipment and consider changes of working methods; 4. Submit proposal of mitigation measures to SO within 3 working days of notification and discuss with ET, IEC and SO.

Event	Action			
	ET Leader	IEC	SO	Contractor
Limit level being exceeded by two or more consecutive sampling days	<ol style="list-style-type: none"> 1. Repeat measurement on next day of exceedance to confirm findings; 2. Identify source(s) of impact; 3. Inform IEC, contractor, SO and EPD; 4. Check monitoring data, all plant, equipment and Contractor's working methods; 5. Discuss mitigation measures with IEC, SO and Contractor; 6. Ensure mitigation measures are implemented; 	<ol style="list-style-type: none"> 1. Check monitoring data submitted by ET and Contractor's working method; 2. Discuss with ET and Contractor on possible remedial actions; 3. Review the Contractor's mitigation measures whenever necessary to assure their effectiveness and advise the SO accordingly; 4. Supervise the implementation of mitigation measures. 	<ol style="list-style-type: none"> 1. Discuss with IEC, ET and Contractor on the proposed mitigation measures; 2. Request Contractor to critically review the working methods; 3. Make agreement on the mitigation measures to be implemented; 4. Ensure mitigation measures are properly implemented; 5. Consider and instruct, if necessary, the Contractor to slow down or to stop all or part of the construction activities until no exceedance of Limit level. 	<ol style="list-style-type: none"> 1. Take immediate action to avoid further exceedance; 2. Submit proposal of mitigation measures to SO within 3 working days of notification and discuss with ET, IEC and SO; 3. Implement the agreed mitigation measures; 4. Resubmit proposals of mitigation measures if problem still not under control; 5. As directed by the Engineer, to slow down or to stop all or part of the construction activities until no exceedance of Limit level.

Event and Action Plan for Dolphin Monitoring

Event	ET Leader	IEC	ER / SOR	Contractor
Action Level	<ol style="list-style-type: none"> 1. Repeat statistical data analysis to confirm findings; 2. Review all available and relevant data, including raw data and statistical analysis results of other parameters covered in the EM&A, to ascertain if differences are as a result of natural variation or previously observed seasonal differences; 3. Identify source(s) of impact; 4. Inform the IEC, ER/SOR and Contractor; 5. Check monitoring data. 6. Review to ensure all the dolphin protective measures are fully and properly implemented and advise on additional measures if necessary. 	<ol style="list-style-type: none"> 1. Check monitoring data submitted by ET and Contractor; 2. Discuss monitoring results and findings with the ET and the Contractor. 	<ol style="list-style-type: none"> 1. Discuss monitoring with the IEC and any other measures proposed by the ET; 2. If ER/SOR is satisfied with the proposal of any other measures, ER/SOR to signify the agreement in writing on the measures to be implemented. 	<ol style="list-style-type: none"> 1. Inform the ER/SOR and confirm notification of the non-compliance in writing; 2. Discuss with the ET and the IEC and propose measures to the IEC and the ER/SOR; 3. Implement the agreed measures.
Limit Level	<ol style="list-style-type: none"> 1. Repeat statistical data analysis to confirm findings; 2. Review all available and relevant data, including raw data and statistical analysis results of other parameters covered in the EM&A, to ascertain if differences are as a result of natural variation or previously observed seasonal differences; 3. Identify source(s) of impact; 4. Inform the IEC, ER/SOR and Contractor of findings; 5. Check monitoring data; 6. Repeat review to ensure all the dolphin protective measures are fully and properly implemented and advise on additional measures if necessary; 	<ol style="list-style-type: none"> 1. Check monitoring data submitted by ET and Contractor; 2. Discuss monitoring results and findings with the ET and the Contractor; 3. Attend the meeting to discuss with ET, ER/SOR and Contractor the necessity of additional dolphin monitoring and any other potential mitigation measures; 4. Review proposals for additional monitoring and any other mitigation measures submitted by ET and Contractor and advise ER/SOR of the results and findings accordingly; 5. Supervise / Audit the 	<ol style="list-style-type: none"> 1. Attend the meeting to discuss with ET, IEC and Contractor the necessity of additional dolphin monitoring and any other potential mitigation measures; 2. If ER/SOR is satisfied with the proposals for additional dolphin monitoring and/or any other mitigation measures submitted by ET and Contractor and verified by IEC, ER/SOR to signify the agreement in writing on such proposals and any other mitigation measures; 3. Supervise the implementation of additional monitoring 	<ol style="list-style-type: none"> 1. Inform the ER/SOR and confirm notification of the non-compliance in writing; 2. Attend the meeting to discuss with ET, IEC and ER/SOR the necessity of additional dolphin monitoring and any other potential mitigation measures; 3. Jointly submit with ET to IEC a proposal of additional dolphin monitoring and/or any other mitigation measures when necessary; 4. Implement the agreed additional dolphin monitoring and/or any other mitigation measures.

Event	ET Leader	IEC	ER / SOR	Contractor
	<p>7. If ET proves that the source of impact is caused by any of the construction activity by the works contract, ET to arrange a meeting to discuss with IEC, ER/SOR and Contractor the necessity of additional dolphin monitoring and/or any other potential mitigation measures (e.g., consider to modify the perimeter silt curtain or consider to control/temporarily stop relevant construction activity etc.) and submit to IEC a proposal of additional dolphin monitoring and/or mitigation measures where necessary.</p>	<p>implementation of additional monitoring and/or any other mitigation measures and advise ER/SOR the results and findings accordingly.</p>	<p>and/or any other mitigation measures.</p>	

Event and Action Plan for Mudflat Monitoring

Event	ET Leader	IEC	SO	Contractor
Density or the distribution pattern of horseshoe crab, seagrass or intertidal soft shore communities recorded in the impact or post-construction monitoring are significantly lower than or different from those recorded in the baseline monitoring.	<p>Review historical data to ensure differences are as a result of natural variation or previously observed seasonal differences;</p> <p>Identify source(s) of impact;</p> <p>Inform the IEC, SO and Contractor;</p> <p>Check monitoring data;</p> <p>Discuss additional monitoring and any other measures, with the IEC and Contractor.</p>	<p>Discuss monitoring with the ET and the Contractor;</p> <p>Review proposals for additional monitoring and any other measures submitted by the Contractor and advise the SO accordingly.</p>	<p>Discuss with the IEC additional monitoring requirements and any other measures proposed by the ET;</p> <p>Make agreement on the measures to be implemented.</p>	<p>Inform the SO and in writing;</p> <p>Discuss with the ET and the IEC and propose measures to the IEC and the ER;</p> <p>Implement the agreed measures.</p>



路政署
HIGHWAYS DEPARTMENT

港珠澳大橋香港工程管理處
Hong Kong - Zhuhai - Macao Bridge
Hong Kong Project Management Office

Contract No. HY/2011/03 : Hong Kong-Zhuhai-Macao Bridge
Hong Kong Link Road - Section between Scenic Hill
and Hong Kong Boundary Crossing Facilities
16th Monthly EM&A Report

APPENDIX G

Wind Data



中國建築工程(香港)有限公司
CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LTD.

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date	Time	Wind Speed (mph)	Wind Direction	Date	Time	Wind Speed (mph)	Wind Direction
01/01/2014	00:05	0	---	01/01/2014	03:40	0	WSW
01/01/2014	00:10	0	SW	01/01/2014	03:45	2	W
01/01/2014	00:15	0	---	01/01/2014	03:50	0	W
01/01/2014	00:20	0	SW	01/01/2014	03:55	1	W
01/01/2014	00:25	0	---	01/01/2014	04:00	1	W
01/01/2014	00:30	0	---	01/01/2014	04:05	0	---
01/01/2014	00:35	0	---	01/01/2014	04:10	2	W
01/01/2014	00:40	0	---	01/01/2014	04:15	3	W
01/01/2014	00:45	0	---	01/01/2014	04:20	3	W
01/01/2014	00:50	0	---	01/01/2014	04:25	2	WNW
01/01/2014	00:55	0	---	01/01/2014	04:30	1	W
01/01/2014	01:00	0	---	01/01/2014	04:35	0	---
01/01/2014	01:05	0	---	01/01/2014	04:40	0	NW
01/01/2014	01:10	0	---	01/01/2014	04:45	0	---
01/01/2014	01:15	1	WSW	01/01/2014	04:50	0	NW
01/01/2014	01:20	1	W	01/01/2014	04:55	0	---
01/01/2014	01:25	0	W	01/01/2014	05:00	0	---
01/01/2014	01:30	0	---	01/01/2014	05:05	0	---
01/01/2014	01:35	0	---	01/01/2014	05:10	0	---
01/01/2014	01:40	2	W	01/01/2014	05:15	2	W
01/01/2014	01:45	1	W	01/01/2014	05:20	2	WSW
01/01/2014	01:50	1	W	01/01/2014	05:25	1	W
01/01/2014	01:55	2	WNW	01/01/2014	05:30	1	W
01/01/2014	02:00	3	WNW	01/01/2014	05:35	0	W
01/01/2014	02:05	3	WNW	01/01/2014	05:40	0	---
01/01/2014	02:10	2	WNW	01/01/2014	05:45	0	---
01/01/2014	02:15	1	W	01/01/2014	05:50	0	---
01/01/2014	02:20	1	W	01/01/2014	05:55	0	---
01/01/2014	02:25	1	WNW	01/01/2014	06:00	0	---
01/01/2014	02:30	1	WNW	01/01/2014	06:05	0	---
01/01/2014	02:35	0	WSW	01/01/2014	06:10	0	---
01/01/2014	02:40	0	---	01/01/2014	06:15	0	WNW
01/01/2014	02:45	0	---	01/01/2014	06:20	3	W
01/01/2014	02:50	0	---	01/01/2014	06:25	3	W
01/01/2014	02:55	0	---	01/01/2014	06:30	3	WNW
01/01/2014	03:00	0	---	01/01/2014	06:35	3	W
01/01/2014	03:05	0	---	01/01/2014	06:40	2	W
01/01/2014	03:10	0	---	01/01/2014	06:45	0	W
01/01/2014	03:15	2	W	01/01/2014	06:50	0	W
01/01/2014	03:20	1	WNW	01/01/2014	06:55	0	WNW
01/01/2014	03:25	0	WSW	01/01/2014	07:00	2	WNW
01/01/2014	03:30	0	---	01/01/2014	07:05	2	W
01/01/2014	03:35	0	---	01/01/2014	07:10	2	W

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date	Time	Wind Speed (mph)	Wind Direction	Date	Time	Wind Speed (mph)	Wind Direction
01/01/2014	07:15	0	W	01/01/2014	10:50	1	ENE
01/01/2014	07:20	0	---	01/01/2014	10:55	1	ENE
01/01/2014	07:25	0	---	01/01/2014	11:00	1	E
01/01/2014	07:30	0	---	01/01/2014	11:05	2	ESE
01/01/2014	07:35	0	---	01/01/2014	11:10	2	E
01/01/2014	07:40	0	---	01/01/2014	11:15	2	E
01/01/2014	07:45	0	---	01/01/2014	11:20	1	SSE
01/01/2014	07:50	0	---	01/01/2014	11:25	0	SSE
01/01/2014	07:55	0	---	01/01/2014	11:30	1	ESE
01/01/2014	08:00	0	---	01/01/2014	11:35	0	S
01/01/2014	08:05	0	---	01/01/2014	11:40	1	ESE
01/01/2014	08:10	0	---	01/01/2014	11:45	1	ENE
01/01/2014	08:15	0	---	01/01/2014	11:50	2	ENE
01/01/2014	08:20	0	---	01/01/2014	11:55	2	ENE
01/01/2014	08:25	0	---	01/01/2014	12:00	2	E
01/01/2014	08:30	0	---	01/01/2014	12:05	1	E
01/01/2014	08:35	0	---	01/01/2014	12:10	2	E
01/01/2014	08:40	0	---	01/01/2014	12:15	2	ENE
01/01/2014	08:45	0	---	01/01/2014	12:20	1	ENE
01/01/2014	08:50	0	---	01/01/2014	12:25	0	NE
01/01/2014	08:55	0	---	01/01/2014	12:30	0	---
01/01/2014	09:00	0	---	01/01/2014	12:35	3	NNE
01/01/2014	09:05	0	---	01/01/2014	12:40	4	N
01/01/2014	09:10	0	---	01/01/2014	12:45	5	NNW
01/01/2014	09:15	0	---	01/01/2014	12:50	5	NNW
01/01/2014	09:20	0	---	01/01/2014	12:55	4	NNE
01/01/2014	09:25	0	---	01/01/2014	13:00	4	NNE
01/01/2014	09:30	0	---	01/01/2014	13:05	4	NNE
01/01/2014	09:35	0	---	01/01/2014	13:10	3	N
01/01/2014	09:40	0	---	01/01/2014	13:15	3	N
01/01/2014	09:45	0	---	01/01/2014	13:20	3	N
01/01/2014	09:50	0	---	01/01/2014	13:25	3	NNE
01/01/2014	09:55	0	SE	01/01/2014	13:30	3	N
01/01/2014	10:00	2	E	01/01/2014	13:35	3	NNE
01/01/2014	10:05	1	ESE	01/01/2014	13:40	3	N
01/01/2014	10:10	1	SE	01/01/2014	13:45	4	N
01/01/2014	10:15	2	E	01/01/2014	13:50	4	N
01/01/2014	10:20	1	E	01/01/2014	13:55	3	N
01/01/2014	10:25	1	E	01/01/2014	14:00	3	N
01/01/2014	10:30	2	E	01/01/2014	14:05	3	N
01/01/2014	10:35	1	E	01/01/2014	14:10	3	N
01/01/2014	10:40	2	E	01/01/2014	14:15	3	N
01/01/2014	10:45	1	E	01/01/2014	14:20	3	NNE

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date	Time	Wind Speed (mph)	Wind Direction	Date	Time	Wind Speed (mph)	Wind Direction
01/01/2014	14:25	2	N	01/01/2014	18:00	0	---
01/01/2014	14:30	3	NNE	01/01/2014	18:05	0	---
01/01/2014	14:35	4	N	01/01/2014	18:10	0	---
01/01/2014	14:40	3	NNE	01/01/2014	18:15	0	---
01/01/2014	14:45	3	N	01/01/2014	18:20	0	---
01/01/2014	14:50	3	NNW	01/01/2014	18:25	0	---
01/01/2014	14:55	3	N	01/01/2014	18:30	0	---
01/01/2014	15:00	5	NNW	01/01/2014	18:35	0	---
01/01/2014	15:05	5	NNW	01/01/2014	18:40	0	---
01/01/2014	15:10	5	NNW	01/01/2014	18:45	0	---
01/01/2014	15:15	4	NNW	01/01/2014	18:50	0	SSE
01/01/2014	15:20	5	NNW	01/01/2014	18:55	0	S
01/01/2014	15:25	4	NNW	01/01/2014	19:00	0	---
01/01/2014	15:30	4	NNW	01/01/2014	19:05	0	---
01/01/2014	15:35	4	NNW	01/01/2014	19:10	0	---
01/01/2014	15:40	4	NNW	01/01/2014	19:15	0	---
01/01/2014	15:45	4	NNW	01/01/2014	19:20	0	---
01/01/2014	15:50	4	NNW	01/01/2014	19:25	0	---
01/01/2014	15:55	5	NNW	01/01/2014	19:30	0	---
01/01/2014	16:00	4	NNW	01/01/2014	19:35	0	---
01/01/2014	16:05	3	NNW	01/01/2014	19:40	0	---
01/01/2014	16:10	3	NNW	01/01/2014	19:45	0	S
01/01/2014	16:15	2	NW	01/01/2014	19:50	1	W
01/01/2014	16:20	1	NNW	01/01/2014	19:55	0	W
01/01/2014	16:25	0	NNW	01/01/2014	20:00	0	---
01/01/2014	16:30	0	---	01/01/2014	20:05	0	---
01/01/2014	16:35	0	N	01/01/2014	20:10	0	---
01/01/2014	16:40	0	NNE	01/01/2014	20:15	0	SSW
01/01/2014	16:45	1	NNE	01/01/2014	20:20	2	SSW
01/01/2014	16:50	0	---	01/01/2014	20:25	0	S
01/01/2014	16:55	0	---	01/01/2014	20:30	1	SSW
01/01/2014	17:00	0	---	01/01/2014	20:35	0	SSW
01/01/2014	17:05	0	---	01/01/2014	20:40	0	---
01/01/2014	17:10	0	---	01/01/2014	20:45	0	SSW
01/01/2014	17:15	0	---	01/01/2014	20:50	2	SSW
01/01/2014	17:20	0	---	01/01/2014	20:55	1	SSW
01/01/2014	17:25	0	---	01/01/2014	21:00	1	S
01/01/2014	17:30	0	---	01/01/2014	21:05	0	---
01/01/2014	17:35	0	---	01/01/2014	21:10	0	---
01/01/2014	17:40	0	---	01/01/2014	21:15	0	---
01/01/2014	17:45	0	---	01/01/2014	21:20	0	---
01/01/2014	17:50	0	---	01/01/2014	21:25	0	---
01/01/2014	17:55	0	---	01/01/2014	21:30	0	---

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date	Time	Wind Speed (mph)	Wind Direction	Date	Time	Wind Speed (mph)	Wind Direction
01/01/2014	21:35	0	---	02/01/2014	01:10	1	S
01/01/2014	21:40	0	---	02/01/2014	01:15	1	S
01/01/2014	21:45	0	---	02/01/2014	01:20	1	NW
01/01/2014	21:50	0	S	02/01/2014	01:25	1	WNW
01/01/2014	21:55	0	---	02/01/2014	01:30	1	WNW
01/01/2014	22:00	1	SSW	02/01/2014	01:35	1	WNW
01/01/2014	22:05	0	---	02/01/2014	01:40	3	WNW
01/01/2014	22:10	0	---	02/01/2014	01:45	2	WNW
01/01/2014	22:15	0	---	02/01/2014	01:50	2	WNW
01/01/2014	22:20	0	---	02/01/2014	01:55	3	WNW
01/01/2014	22:25	0	SSW	02/01/2014	02:00	3	NNW
01/01/2014	22:30	1	W	02/01/2014	02:05	2	WNW
01/01/2014	22:35	2	WNW	02/01/2014	02:10	2	WNW
01/01/2014	22:40	1	S	02/01/2014	02:15	0	S
01/01/2014	22:45	0	---	02/01/2014	02:20	1	NW
01/01/2014	22:50	1	S	02/01/2014	02:25	1	WNW
01/01/2014	22:55	1	SSW	02/01/2014	02:30	0	---
01/01/2014	23:00	0	---	02/01/2014	02:35	3	WNW
01/01/2014	23:05	0	---	02/01/2014	02:40	2	WNW
01/01/2014	23:10	0	---	02/01/2014	02:45	1	WNW
01/01/2014	23:15	1	WNW	02/01/2014	02:50	1	WNW
01/01/2014	23:20	0	WNW	02/01/2014	02:55	2	W
01/01/2014	23:25	0	---	02/01/2014	03:00	3	WNW
01/01/2014	23:30	0	---	02/01/2014	03:05	2	WNW
01/01/2014	23:35	0	---	02/01/2014	03:10	2	WNW
01/01/2014	23:40	0	---	02/01/2014	03:15	1	W
01/01/2014	23:45	0	---	02/01/2014	03:20	0	---
01/01/2014	23:50	0	---	02/01/2014	03:25	0	W
01/01/2014	23:55	0	---	02/01/2014	03:30	1	W
02/01/2014	00:00	0	W	02/01/2014	03:35	1	WSW
02/01/2014	00:05	2	WSW	02/01/2014	03:40	0	WSW
02/01/2014	00:10	1	SSW	02/01/2014	03:45	0	---
02/01/2014	00:15	0	W	02/01/2014	03:50	0	---
02/01/2014	00:20	1	W	02/01/2014	03:55	0	---
02/01/2014	00:25	1	W	02/01/2014	04:00	0	---
02/01/2014	00:30	2	WNW	02/01/2014	04:05	0	---
02/01/2014	00:35	1	S	02/01/2014	04:10	0	NW
02/01/2014	00:40	1	NW	02/01/2014	04:15	1	WNW
02/01/2014	00:45	0	---	02/01/2014	04:20	0	---
02/01/2014	00:50	1	N	02/01/2014	04:25	0	---
02/01/2014	00:55	0	---	02/01/2014	04:30	0	---
02/01/2014	01:00	0	---	02/01/2014	04:35	0	---
02/01/2014	01:05	0	---	02/01/2014	04:40	0	---

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date	Time	Wind Speed (mph)	Wind Direction	Date	Time	Wind Speed (mph)	Wind Direction
02/01/2014	04:45	0	---	02/01/2014	08:20	0	---
02/01/2014	04:50	0	---	02/01/2014	08:25	0	---
02/01/2014	04:55	0	---	02/01/2014	08:30	0	---
02/01/2014	05:00	0	---	02/01/2014	08:35	0	---
02/01/2014	05:05	0	---	02/01/2014	08:40	0	---
02/01/2014	05:10	0	---	02/01/2014	08:45	0	---
02/01/2014	05:15	0	---	02/01/2014	08:50	0	---
02/01/2014	05:20	0	---	02/01/2014	08:55	0	---
02/01/2014	05:25	0	---	02/01/2014	09:00	0	---
02/01/2014	05:30	0	---	02/01/2014	09:05	0	---
02/01/2014	05:35	0	---	02/01/2014	09:10	0	---
02/01/2014	05:40	0	---	02/01/2014	09:15	0	---
02/01/2014	05:45	0	---	02/01/2014	09:20	0	---
02/01/2014	05:50	0	---	02/01/2014	09:25	0	---
02/01/2014	05:55	0	---	02/01/2014	09:30	0	---
02/01/2014	06:00	0	---	02/01/2014	09:35	0	---
02/01/2014	06:05	0	---	02/01/2014	09:40	0	---
02/01/2014	06:10	0	---	02/01/2014	09:45	0	---
02/01/2014	06:15	0	---	02/01/2014	09:50	0	---
02/01/2014	06:20	0	---	02/01/2014	09:55	0	---
02/01/2014	06:25	0	---	02/01/2014	10:00	0	---
02/01/2014	06:30	0	---	02/01/2014	10:05	0	---
02/01/2014	06:35	0	---	02/01/2014	10:10	0	---
02/01/2014	06:40	0	---	02/01/2014	10:15	0	---
02/01/2014	06:45	0	---	02/01/2014	10:20	0	---
02/01/2014	06:50	0	---	02/01/2014	10:25	0	---
02/01/2014	06:55	0	---	02/01/2014	10:30	0	---
02/01/2014	07:00	0	---	02/01/2014	10:35	0	---
02/01/2014	07:05	0	---	02/01/2014	10:40	0	---
02/01/2014	07:10	0	---	02/01/2014	10:45	0	---
02/01/2014	07:15	0	---	02/01/2014	10:50	0	---
02/01/2014	07:20	0	---	02/01/2014	10:55	0	---
02/01/2014	07:25	0	---	02/01/2014	11:00	0	---
02/01/2014	07:30	0	---	02/01/2014	11:05	0	---
02/01/2014	07:35	0	---	02/01/2014	11:10	0	---
02/01/2014	07:40	0	---	02/01/2014	11:15	0	---
02/01/2014	07:45	0	---	02/01/2014	11:20	0	---
02/01/2014	07:50	0	---	02/01/2014	11:25	0	---
02/01/2014	07:55	0	---	02/01/2014	11:30	0	---
02/01/2014	08:00	0	---	02/01/2014	11:35	0	---
02/01/2014	08:05	0	---	02/01/2014	11:40	0	---
02/01/2014	08:10	0	---	02/01/2014	11:45	1	NNE
02/01/2014	08:15	0	---	02/01/2014	11:50	4	NNE

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date	Time	Wind Speed (mph)	Wind Direction	Date	Time	Wind Speed (mph)	Wind Direction
02/01/2014	11:55	4	NNW	02/01/2014	15:30	2	E
02/01/2014	12:00	4	N	02/01/2014	15:35	2	E
02/01/2014	12:05	4	NW	02/01/2014	15:40	1	SE
02/01/2014	12:10	4	NNW	02/01/2014	15:45	1	NNE
02/01/2014	12:15	4	NNW	02/01/2014	15:50	1	NNE
02/01/2014	12:20	7	N	02/01/2014	15:55	2	NNW
02/01/2014	12:25	6	NNW	02/01/2014	16:00	3	NNW
02/01/2014	12:30	6	NNW	02/01/2014	16:05	2	NNW
02/01/2014	12:35	4	NNW	02/01/2014	16:10	1	NNW
02/01/2014	12:40	2	WNW	02/01/2014	16:15	0	NNW
02/01/2014	12:45	3	NNW	02/01/2014	16:20	0	---
02/01/2014	12:50	3	N	02/01/2014	16:25	0	---
02/01/2014	12:55	3	N	02/01/2014	16:30	2	ESE
02/01/2014	13:00	4	NNE	02/01/2014	16:35	3	ESE
02/01/2014	13:05	2	NNE	02/01/2014	16:40	3	SE
02/01/2014	13:10	3	N	02/01/2014	16:45	4	SE
02/01/2014	13:15	3	NNE	02/01/2014	16:50	4	SE
02/01/2014	13:20	3	N	02/01/2014	16:55	3	SE
02/01/2014	13:25	4	N	02/01/2014	17:00	3	SSE
02/01/2014	13:30	4	N	02/01/2014	17:05	2	SSE
02/01/2014	13:35	3	N	02/01/2014	17:10	2	SE
02/01/2014	13:40	2	NNE	02/01/2014	17:15	1	SSE
02/01/2014	13:45	4	N	02/01/2014	17:20	1	SSE
02/01/2014	13:50	3	N	02/01/2014	17:25	1	SSE
02/01/2014	13:55	4	NNE	02/01/2014	17:30	2	SSE
02/01/2014	14:00	3	NNE	02/01/2014	17:35	1	SSE
02/01/2014	14:05	2	N	02/01/2014	17:40	0	SE
02/01/2014	14:10	1	N	02/01/2014	17:45	0	---
02/01/2014	14:15	1	N	02/01/2014	17:50	0	SE
02/01/2014	14:20	1	N	02/01/2014	17:55	0	---
02/01/2014	14:25	1	NE	02/01/2014	18:00	0	---
02/01/2014	14:30	0	NE	02/01/2014	18:05	1	SE
02/01/2014	14:35	0	---	02/01/2014	18:10	1	SE
02/01/2014	14:40	2	NNE	02/01/2014	18:15	1	SE
02/01/2014	14:45	1	NNE	02/01/2014	18:20	2	SE
02/01/2014	14:50	0	NNE	02/01/2014	18:25	2	SE
02/01/2014	14:55	0	---	02/01/2014	18:30	3	SE
02/01/2014	15:00	0	---	02/01/2014	18:35	1	SE
02/01/2014	15:05	2	E	02/01/2014	18:40	0	---
02/01/2014	15:10	1	E	02/01/2014	18:45	0	---
02/01/2014	15:15	2	ESE	02/01/2014	18:50	0	---
02/01/2014	15:20	2	E	02/01/2014	18:55	0	---
02/01/2014	15:25	3	E	02/01/2014	19:00	0	---

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date	Time	Wind Speed (mph)	Wind Direction	Date	Time	Wind Speed (mph)	Wind Direction
02/01/2014	19:05	0	---	02/01/2014	22:40	0	---
02/01/2014	19:10	0	---	02/01/2014	22:45	0	---
02/01/2014	19:15	0	---	02/01/2014	22:50	0	---
02/01/2014	19:20	0	---	02/01/2014	22:55	2	WNW
02/01/2014	19:25	0	---	02/01/2014	23:00	2	NNW
02/01/2014	19:30	0	---	02/01/2014	23:05	0	NNW
02/01/2014	19:35	0	---	02/01/2014	23:10	0	NNW
02/01/2014	19:40	0	---	02/01/2014	23:15	1	E
02/01/2014	19:45	0	---	02/01/2014	23:20	2	SSW
02/01/2014	19:50	0	---	02/01/2014	23:25	0	---
02/01/2014	19:55	0	---	02/01/2014	23:30	0	---
02/01/2014	20:00	0	---	02/01/2014	23:35	0	SE
02/01/2014	20:05	0	---	02/01/2014	23:40	1	SSE
02/01/2014	20:10	0	---	02/01/2014	23:45	1	WNW
02/01/2014	20:15	0	---	02/01/2014	23:50	0	---
02/01/2014	20:20	0	---	02/01/2014	23:55	1	S
02/01/2014	20:25	0	---	03/01/2014	00:00	1	SSW
02/01/2014	20:30	0	---	03/01/2014	00:05	1	SSW
02/01/2014	20:35	0	---	03/01/2014	00:10	0	W
02/01/2014	20:40	0	---	03/01/2014	00:15	0	W
02/01/2014	20:45	0	---	03/01/2014	00:20	0	---
02/01/2014	20:50	0	---	03/01/2014	00:25	0	---
02/01/2014	20:55	0	---	03/01/2014	00:30	0	---
02/01/2014	21:00	0	---	03/01/2014	00:35	0	---
02/01/2014	21:05	0	---	03/01/2014	00:40	0	---
02/01/2014	21:10	0	---	03/01/2014	00:45	0	---
02/01/2014	21:15	0	---	03/01/2014	00:50	0	W
02/01/2014	21:20	0	---	03/01/2014	00:55	2	N
02/01/2014	21:25	0	---	03/01/2014	01:00	3	NNW
02/01/2014	21:30	0	---	03/01/2014	01:05	1	WNW
02/01/2014	21:35	0	---	03/01/2014	01:10	0	---
02/01/2014	21:40	0	---	03/01/2014	01:15	0	---
02/01/2014	21:45	0	---	03/01/2014	01:20	1	WNW
02/01/2014	21:50	0	---	03/01/2014	01:25	1	S
02/01/2014	21:55	0	---	03/01/2014	01:30	0	---
02/01/2014	22:00	0	---	03/01/2014	01:35	0	---
02/01/2014	22:05	0	---	03/01/2014	01:40	0	---
02/01/2014	22:10	0	---	03/01/2014	01:45	0	---
02/01/2014	22:15	1	SSW	03/01/2014	01:50	0	---
02/01/2014	22:20	1	SW	03/01/2014	01:55	0	---
02/01/2014	22:25	0	SW	03/01/2014	02:00	0	---
02/01/2014	22:30	0	---	03/01/2014	02:05	0	---
02/01/2014	22:35	0	---	03/01/2014	02:10	0	---

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date	Time	Wind Speed (mph)	Wind Direction	Date	Time	Wind Speed (mph)	Wind Direction
03/01/2014	02:15	0	---	03/01/2014	05:50	1	WNW
03/01/2014	02:20	0	---	03/01/2014	05:55	1	NNW
03/01/2014	02:25	0	---	03/01/2014	06:00	1	NNW
03/01/2014	02:30	0	---	03/01/2014	06:05	1	NNW
03/01/2014	02:35	0	---	03/01/2014	06:10	1	NNW
03/01/2014	02:40	0	---	03/01/2014	06:15	0	NNW
03/01/2014	02:45	0	---	03/01/2014	06:20	0	---
03/01/2014	02:50	0	---	03/01/2014	06:25	1	W
03/01/2014	02:55	0	---	03/01/2014	06:30	2	W
03/01/2014	03:00	0	---	03/01/2014	06:35	3	W
03/01/2014	03:05	0	---	03/01/2014	06:40	3	W
03/01/2014	03:10	0	---	03/01/2014	06:45	3	WNW
03/01/2014	03:15	0	---	03/01/2014	06:50	3	W
03/01/2014	03:20	0	---	03/01/2014	06:55	2	W
03/01/2014	03:25	0	---	03/01/2014	07:00	1	W
03/01/2014	03:30	0	---	03/01/2014	07:05	1	W
03/01/2014	03:35	0	---	03/01/2014	07:10	0	W
03/01/2014	03:40	0	---	03/01/2014	07:15	2	W
03/01/2014	03:45	0	---	03/01/2014	07:20	2	W
03/01/2014	03:50	0	---	03/01/2014	07:25	1	W
03/01/2014	03:55	0	---	03/01/2014	07:30	2	W
03/01/2014	04:00	0	---	03/01/2014	07:35	1	W
03/01/2014	04:05	0	---	03/01/2014	07:40	0	---
03/01/2014	04:10	2	SSW	03/01/2014	07:45	0	---
03/01/2014	04:15	1	SSW	03/01/2014	07:50	0	---
03/01/2014	04:20	0	---	03/01/2014	07:55	0	---
03/01/2014	04:25	0	---	03/01/2014	08:00	0	---
03/01/2014	04:30	0	---	03/01/2014	08:05	0	---
03/01/2014	04:35	0	---	03/01/2014	08:10	0	---
03/01/2014	04:40	0	---	03/01/2014	08:15	0	---
03/01/2014	04:45	0	---	03/01/2014	08:20	2	NNE
03/01/2014	04:50	0	---	03/01/2014	08:25	3	NNW
03/01/2014	04:55	0	---	03/01/2014	08:30	0	NNW
03/01/2014	05:00	2	NNW	03/01/2014	08:35	1	N
03/01/2014	05:05	1	NW	03/01/2014	08:40	1	N
03/01/2014	05:10	2	WNW	03/01/2014	08:45	1	NNW
03/01/2014	05:15	0	WNW	03/01/2014	08:50	0	---
03/01/2014	05:20	2	W	03/01/2014	08:55	0	---
03/01/2014	05:25	0	---	03/01/2014	09:00	0	---
03/01/2014	05:30	0	---	03/01/2014	09:05	0	---
03/01/2014	05:35	0	---	03/01/2014	09:10	0	NW
03/01/2014	05:40	2	WNW	03/01/2014	09:15	1	SE
03/01/2014	05:45	3	WNW	03/01/2014	09:20	1	W

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date	Time	Wind Speed (mph)	Wind Direction	Date	Time	Wind Speed (mph)	Wind Direction
03/01/2014	09:25	3	W	03/01/2014	13:00	3	NNW
03/01/2014	09:30	1	W	03/01/2014	13:05	3	NNW
03/01/2014	09:35	2	W	03/01/2014	13:10	3	N
03/01/2014	09:40	1	W	03/01/2014	13:15	4	NNW
03/01/2014	09:45	1	W	03/01/2014	13:20	3	N
03/01/2014	09:50	0	W	03/01/2014	13:25	2	N
03/01/2014	09:55	0	---	03/01/2014	13:30	6	N
03/01/2014	10:00	0	---	03/01/2014	13:35	4	N
03/01/2014	10:05	0	---	03/01/2014	13:40	5	NW
03/01/2014	10:10	0	---	03/01/2014	13:45	3	NW
03/01/2014	10:15	0	---	03/01/2014	13:50	3	NW
03/01/2014	10:20	0	---	03/01/2014	13:55	5	N
03/01/2014	10:25	0	---	03/01/2014	14:00	4	N
03/01/2014	10:30	0	---	03/01/2014	14:05	2	N
03/01/2014	10:35	0	---	03/01/2014	14:10	4	NNW
03/01/2014	10:40	3	E	03/01/2014	14:15	2	N
03/01/2014	10:45	2	E	03/01/2014	14:20	4	N
03/01/2014	10:50	2	E	03/01/2014	14:25	4	NW
03/01/2014	10:55	3	ENE	03/01/2014	14:30	4	NE
03/01/2014	11:00	3	ENE	03/01/2014	14:35	2	NNW
03/01/2014	11:05	5	N	03/01/2014	14:40	2	NNW
03/01/2014	11:10	4	N	03/01/2014	14:45	2	WNW
03/01/2014	11:15	5	NNW	03/01/2014	14:50	2	W
03/01/2014	11:20	3	N	03/01/2014	14:55	3	W
03/01/2014	11:25	3	N	03/01/2014	15:00	3	WSW
03/01/2014	11:30	3	N	03/01/2014	15:05	3	WNW
03/01/2014	11:35	3	N	03/01/2014	15:10	2	WNW
03/01/2014	11:40	4	N	03/01/2014	15:15	1	N
03/01/2014	11:45	4	N	03/01/2014	15:20	2	WSW
03/01/2014	11:50	5	N	03/01/2014	15:25	1	N
03/01/2014	11:55	5	N	03/01/2014	15:30	2	NNW
03/01/2014	12:00	5	N	03/01/2014	15:35	1	N
03/01/2014	12:05	4	NNE	03/01/2014	15:40	2	N
03/01/2014	12:10	4	NNE	03/01/2014	15:45	1	NW
03/01/2014	12:15	4	N	03/01/2014	15:50	2	N
03/01/2014	12:20	5	N	03/01/2014	15:55	1	N
03/01/2014	12:25	4	NNW	03/01/2014	16:00	0	WNW
03/01/2014	12:30	4	N	03/01/2014	16:05	1	NNW
03/01/2014	12:35	4	N	03/01/2014	16:10	1	W
03/01/2014	12:40	4	N	03/01/2014	16:15	2	N
03/01/2014	12:45	5	N	03/01/2014	16:20	1	WNW
03/01/2014	12:50	4	N	03/01/2014	16:25	1	NE
03/01/2014	12:55	4	N	03/01/2014	16:30	2	NW

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date	Time	Wind Speed (mph)	Wind Direction	Date	Time	Wind Speed (mph)	Wind Direction
03/01/2014	16:35	2	W	03/01/2014	20:10	1	WNW
03/01/2014	16:40	3	NW	03/01/2014	20:15	3	W
03/01/2014	16:45	2	NNW	03/01/2014	20:20	2	W
03/01/2014	16:50	1	NW	03/01/2014	20:25	2	W
03/01/2014	16:55	2	WNW	03/01/2014	20:30	3	WSW
03/01/2014	17:00	1	WNW	03/01/2014	20:35	3	W
03/01/2014	17:05	0	---	03/01/2014	20:40	3	WNW
03/01/2014	17:10	0	---	03/01/2014	20:45	2	W
03/01/2014	17:15	0	---	03/01/2014	20:50	4	W
03/01/2014	17:20	0	---	03/01/2014	20:55	4	W
03/01/2014	17:25	0	---	03/01/2014	21:00	3	W
03/01/2014	17:30	1	WNW	03/01/2014	21:05	3	WNW
03/01/2014	17:35	1	NW	03/01/2014	21:10	4	WNW
03/01/2014	17:40	0	W	03/01/2014	21:15	3	NW
03/01/2014	17:45	3	WNW	03/01/2014	21:20	3	WNW
03/01/2014	17:50	1	WNW	03/01/2014	21:25	3	WNW
03/01/2014	17:55	3	W	03/01/2014	21:30	3	W
03/01/2014	18:00	2	WNW	03/01/2014	21:35	2	W
03/01/2014	18:05	2	W	03/01/2014	21:40	3	WNW
03/01/2014	18:10	2	W	03/01/2014	21:45	2	W
03/01/2014	18:15	3	W	03/01/2014	21:50	3	W
03/01/2014	18:20	4	W	03/01/2014	21:55	2	W
03/01/2014	18:25	2	WNW	03/01/2014	22:00	2	WSW
03/01/2014	18:30	3	WNW	03/01/2014	22:05	2	WSW
03/01/2014	18:35	0	WNW	03/01/2014	22:10	2	WSW
03/01/2014	18:40	1	WNW	03/01/2014	22:15	1	WSW
03/01/2014	18:45	2	WNW	03/01/2014	22:20	2	SW
03/01/2014	18:50	2	NW	03/01/2014	22:25	1	SW
03/01/2014	18:55	2	NW	03/01/2014	22:30	0	---
03/01/2014	19:00	0	NW	03/01/2014	22:35	0	---
03/01/2014	19:05	2	WNW	03/01/2014	22:40	0	---
03/01/2014	19:10	1	WSW	03/01/2014	22:45	1	SW
03/01/2014	19:15	2	SW	03/01/2014	22:50	1	ESE
03/01/2014	19:20	0	SW	03/01/2014	22:55	0	E
03/01/2014	19:25	0	SSW	03/01/2014	23:00	0	---
03/01/2014	19:30	0	---	03/01/2014	23:05	0	---
03/01/2014	19:35	0	---	03/01/2014	23:10	0	---
03/01/2014	19:40	0	---	03/01/2014	23:15	0	---
03/01/2014	19:45	0	---	03/01/2014	23:20	0	---
03/01/2014	19:50	0	---	03/01/2014	23:25	0	---
03/01/2014	19:55	1	WSW	03/01/2014	23:30	2	SW
03/01/2014	20:00	2	W	03/01/2014	23:35	1	SSW
03/01/2014	20:05	3	W	03/01/2014	23:40	0	---

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date	Time	Wind Speed (mph)	Wind Direction	Date	Time	Wind Speed (mph)	Wind Direction
03/01/2014	23:45	1	WSW	04/01/2014	03:20	0	---
03/01/2014	23:50	1	W	04/01/2014	03:25	0	---
03/01/2014	23:55	0	W	04/01/2014	03:30	0	---
04/01/2014	00:00	3	W	04/01/2014	03:35	0	---
04/01/2014	00:05	3	SW	04/01/2014	03:40	1	W
04/01/2014	00:10	0	SW	04/01/2014	03:45	1	WNW
04/01/2014	00:15	2	E	04/01/2014	03:50	3	W
04/01/2014	00:20	2	W	04/01/2014	03:55	4	WNW
04/01/2014	00:25	1	W	04/01/2014	04:00	4	W
04/01/2014	00:30	1	W	04/01/2014	04:05	3	W
04/01/2014	00:35	0	---	04/01/2014	04:10	5	W
04/01/2014	00:40	2	W	04/01/2014	04:15	5	W
04/01/2014	00:45	0	W	04/01/2014	04:20	2	W
04/01/2014	00:50	0	---	04/01/2014	04:25	2	WNW
04/01/2014	00:55	0	WNW	04/01/2014	04:30	2	W
04/01/2014	01:00	1	WNW	04/01/2014	04:35	4	W
04/01/2014	01:05	0	---	04/01/2014	04:40	2	WSW
04/01/2014	01:10	0	---	04/01/2014	04:45	1	SSE
04/01/2014	01:15	0	---	04/01/2014	04:50	3	W
04/01/2014	01:20	0	---	04/01/2014	04:55	1	SW
04/01/2014	01:25	0	---	04/01/2014	05:00	2	NW
04/01/2014	01:30	0	---	04/01/2014	05:05	0	W
04/01/2014	01:35	0	---	04/01/2014	05:10	0	---
04/01/2014	01:40	0	---	04/01/2014	05:15	2	W
04/01/2014	01:45	0	---	04/01/2014	05:20	1	WNW
04/01/2014	01:50	0	---	04/01/2014	05:25	1	WNW
04/01/2014	01:55	0	---	04/01/2014	05:30	2	W
04/01/2014	02:00	0	---	04/01/2014	05:35	2	W
04/01/2014	02:05	0	---	04/01/2014	05:40	1	WNW
04/01/2014	02:10	0	---	04/01/2014	05:45	2	WSW
04/01/2014	02:15	0	---	04/01/2014	05:50	3	WNW
04/01/2014	02:20	0	---	04/01/2014	05:55	2	W
04/01/2014	02:25	0	---	04/01/2014	06:00	0	---
04/01/2014	02:30	0	---	04/01/2014	06:05	0	---
04/01/2014	02:35	0	---	04/01/2014	06:10	0	---
04/01/2014	02:40	0	---	04/01/2014	06:15	0	---
04/01/2014	02:45	0	---	04/01/2014	06:20	0	---
04/01/2014	02:50	0	---	04/01/2014	06:25	0	---
04/01/2014	02:55	0	---	04/01/2014	06:30	0	---
04/01/2014	03:00	0	---	04/01/2014	06:35	0	---
04/01/2014	03:05	0	---	04/01/2014	06:40	0	---
04/01/2014	03:10	0	---	04/01/2014	06:45	0	---
04/01/2014	03:15	0	---	04/01/2014	06:50	0	---

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date	Time	Wind Speed (mph)	Wind Direction	Date	Time	Wind Speed (mph)	Wind Direction
04/01/2014	06:55	0	---	04/01/2014	10:30	2	E
04/01/2014	07:00	0	---	04/01/2014	10:35	2	ENE
04/01/2014	07:05	2	WNW	04/01/2014	10:40	3	ENE
04/01/2014	07:10	2	SSW	04/01/2014	10:45	4	ENE
04/01/2014	07:15	3	WSW	04/01/2014	10:50	3	ENE
04/01/2014	07:20	1	S	04/01/2014	10:55	2	E
04/01/2014	07:25	2	SSE	04/01/2014	11:00	3	ENE
04/01/2014	07:30	2	SSE	04/01/2014	11:05	3	ENE
04/01/2014	07:35	1	SE	04/01/2014	11:10	2	E
04/01/2014	07:40	2	E	04/01/2014	11:15	3	ENE
04/01/2014	07:45	2	NE	04/01/2014	11:20	3	NE
04/01/2014	07:50	0	ENE	04/01/2014	11:25	2	ESE
04/01/2014	07:55	0	---	04/01/2014	11:30	2	S
04/01/2014	08:00	0	---	04/01/2014	11:35	1	E
04/01/2014	08:05	0	---	04/01/2014	11:40	2	NNE
04/01/2014	08:10	0	---	04/01/2014	11:45	2	ESE
04/01/2014	08:15	0	---	04/01/2014	11:50	2	NE
04/01/2014	08:20	0	---	04/01/2014	11:55	4	NNE
04/01/2014	08:25	0	---	04/01/2014	12:00	3	NNE
04/01/2014	08:30	1	W	04/01/2014	12:05	5	N
04/01/2014	08:35	0	---	04/01/2014	12:10	4	NNE
04/01/2014	08:40	0	---	04/01/2014	12:15	5	N
04/01/2014	08:45	0	---	04/01/2014	12:20	4	N
04/01/2014	08:50	0	---	04/01/2014	12:25	5	NNE
04/01/2014	08:55	0	---	04/01/2014	12:30	4	NNE
04/01/2014	09:00	0	S	04/01/2014	12:35	6	NNE
04/01/2014	09:05	1	S	04/01/2014	12:40	5	NNE
04/01/2014	09:10	0	---	04/01/2014	12:45	5	NNE
04/01/2014	09:15	0	WNW	04/01/2014	12:50	7	NNE
04/01/2014	09:20	0	NNE	04/01/2014	12:55	7	NNE
04/01/2014	09:25	2	NNE	04/01/2014	13:00	7	NNE
04/01/2014	09:30	2	NW	04/01/2014	13:05	9	NNE
04/01/2014	09:35	2	NW	04/01/2014	13:10	8	NNE
04/01/2014	09:40	2	W	04/01/2014	13:15	6	N
04/01/2014	09:45	1	NNE	04/01/2014	13:20	7	NNE
04/01/2014	09:50	0	WNW	04/01/2014	13:25	6	NNE
04/01/2014	09:55	1	SW	04/01/2014	13:30	6	N
04/01/2014	10:00	1	SW	04/01/2014	13:35	7	N
04/01/2014	10:05	2	ENE	04/01/2014	13:40	5	N
04/01/2014	10:10	1	ESE	04/01/2014	13:45	8	NNE
04/01/2014	10:15	2	E	04/01/2014	13:50	8	N
04/01/2014	10:20	2	ENE	04/01/2014	13:55	8	N
04/01/2014	10:25	2	E	04/01/2014	14:00	9	NNE

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date	Time	Wind Speed (mph)	Wind Direction	Date	Time	Wind Speed (mph)	Wind Direction
04/01/2014	14:05	9	N	04/01/2014	17:40	2	SE
04/01/2014	14:10	8	N	04/01/2014	17:45	2	SSE
04/01/2014	14:15	7	N	04/01/2014	17:50	1	ESE
04/01/2014	14:20	7	N	04/01/2014	17:55	2	SE
04/01/2014	14:25	7	N	04/01/2014	18:00	2	SE
04/01/2014	14:30	8	N	04/01/2014	18:05	2	ESE
04/01/2014	14:35	9	N	04/01/2014	18:10	2	E
04/01/2014	14:40	6	N	04/01/2014	18:15	1	ESE
04/01/2014	14:45	8	NNE	04/01/2014	18:20	0	SE
04/01/2014	14:50	7	N	04/01/2014	18:25	1	SSE
04/01/2014	14:55	7	N	04/01/2014	18:30	0	S
04/01/2014	15:00	6	NNE	04/01/2014	18:35	0	ENE
04/01/2014	15:05	7	NNE	04/01/2014	18:40	0	---
04/01/2014	15:10	7	N	04/01/2014	18:45	0	ESE
04/01/2014	15:15	7	N	04/01/2014	18:50	0	E
04/01/2014	15:20	7	N	04/01/2014	18:55	0	---
04/01/2014	15:25	6	N	04/01/2014	19:00	0	---
04/01/2014	15:30	8	NNE	04/01/2014	19:05	1	S
04/01/2014	15:35	7	N	04/01/2014	19:10	0	S
04/01/2014	15:40	7	N	04/01/2014	19:15	0	---
04/01/2014	15:45	4	NNE	04/01/2014	19:20	0	---
04/01/2014	15:50	5	NNE	04/01/2014	19:25	0	---
04/01/2014	15:55	6	NNE	04/01/2014	19:30	0	---
04/01/2014	16:00	4	NNE	04/01/2014	19:35	0	---
04/01/2014	16:05	5	N	04/01/2014	19:40	0	---
04/01/2014	16:10	4	NNE	04/01/2014	19:45	0	---
04/01/2014	16:15	4	N	04/01/2014	19:50	0	---
04/01/2014	16:20	5	NNE	04/01/2014	19:55	0	---
04/01/2014	16:25	5	NNE	04/01/2014	20:00	0	---
04/01/2014	16:30	6	NNE	04/01/2014	20:05	0	---
04/01/2014	16:35	5	NNE	04/01/2014	20:10	0	---
04/01/2014	16:40	3	NNE	04/01/2014	20:15	0	---
04/01/2014	16:45	3	ENE	04/01/2014	20:20	0	---
04/01/2014	16:50	3	ENE	04/01/2014	20:25	0	---
04/01/2014	16:55	1	ENE	04/01/2014	20:30	0	---
04/01/2014	17:00	0	E	04/01/2014	20:35	0	---
04/01/2014	17:05	0	---	04/01/2014	20:40	0	---
04/01/2014	17:10	0	---	04/01/2014	20:45	0	---
04/01/2014	17:15	0	---	04/01/2014	20:50	0	---
04/01/2014	17:20	0	---	04/01/2014	20:55	0	---
04/01/2014	17:25	2	SE	04/01/2014	21:00	0	---
04/01/2014	17:30	3	SE	04/01/2014	21:05	0	---
04/01/2014	17:35	3	SE	04/01/2014	21:10	0	---

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date	Time	Wind Speed (mph)	Wind Direction	Date	Time	Wind Speed (mph)	Wind Direction
04/01/2014	21:15	0	---	05/01/2014	00:50	0	---
04/01/2014	21:20	2	SSW	05/01/2014	00:55	0	---
04/01/2014	21:25	3	SSW	05/01/2014	01:00	0	---
04/01/2014	21:30	2	S	05/01/2014	01:05	0	---
04/01/2014	21:35	1	S	05/01/2014	01:10	0	---
04/01/2014	21:40	0	NW	05/01/2014	01:15	0	---
04/01/2014	21:45	0	NW	05/01/2014	01:20	0	---
04/01/2014	21:50	0	SW	05/01/2014	01:25	0	---
04/01/2014	21:55	0	---	05/01/2014	01:30	0	---
04/01/2014	22:00	0	S	05/01/2014	01:35	0	---
04/01/2014	22:05	2	S	05/01/2014	01:40	0	---
04/01/2014	22:10	0	---	05/01/2014	01:45	0	---
04/01/2014	22:15	0	---	05/01/2014	01:50	0	---
04/01/2014	22:20	0	---	05/01/2014	01:55	0	---
04/01/2014	22:25	0	---	05/01/2014	02:00	0	---
04/01/2014	22:30	0	---	05/01/2014	02:05	0	---
04/01/2014	22:35	0	---	05/01/2014	02:10	0	---
04/01/2014	22:40	0	---	05/01/2014	02:15	0	---
04/01/2014	22:45	0	---	05/01/2014	02:20	0	---
04/01/2014	22:50	0	---	05/01/2014	02:25	0	---
04/01/2014	22:55	0	---	05/01/2014	02:30	0	---
04/01/2014	23:00	0	---	05/01/2014	02:35	0	---
04/01/2014	23:05	0	---	05/01/2014	02:40	0	---
04/01/2014	23:10	0	---	05/01/2014	02:45	0	---
04/01/2014	23:15	0	---	05/01/2014	02:50	0	---
04/01/2014	23:20	0	---	05/01/2014	02:55	0	---
04/01/2014	23:25	0	---	05/01/2014	03:00	0	---
04/01/2014	23:30	0	---	05/01/2014	03:05	0	---
04/01/2014	23:35	0	---	05/01/2014	03:10	0	---
04/01/2014	23:40	0	---	05/01/2014	03:15	0	---
04/01/2014	23:45	0	---	05/01/2014	03:20	0	---
04/01/2014	23:50	0	---	05/01/2014	03:25	0	---
04/01/2014	23:55	0	---	05/01/2014	03:30	0	---
05/01/2014	00:00	0	---	05/01/2014	03:35	0	---
05/01/2014	00:05	0	---	05/01/2014	03:40	0	---
05/01/2014	00:10	0	---	05/01/2014	03:45	0	---
05/01/2014	00:15	0	---	05/01/2014	03:50	0	---
05/01/2014	00:20	0	---	05/01/2014	03:55	0	---
05/01/2014	00:25	0	---	05/01/2014	04:00	0	---
05/01/2014	00:30	0	---	05/01/2014	04:05	0	---
05/01/2014	00:35	0	---	05/01/2014	04:10	0	---
05/01/2014	00:40	0	---	05/01/2014	04:15	0	---
05/01/2014	00:45	0	---	05/01/2014	04:20	0	---

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date	Time	Wind Speed (mph)	Wind Direction	Date	Time	Wind Speed (mph)	Wind Direction
05/01/2014	04:25	0	---	05/01/2014	08:00	2	SE
05/01/2014	04:30	0	---	05/01/2014	08:05	1	ESE
05/01/2014	04:35	0	---	05/01/2014	08:10	1	ESE
05/01/2014	04:40	0	---	05/01/2014	08:15	1	ESE
05/01/2014	04:45	0	---	05/01/2014	08:20	2	E
05/01/2014	04:50	0	---	05/01/2014	08:25	1	E
05/01/2014	04:55	0	---	05/01/2014	08:30	1	WNW
05/01/2014	05:00	0	---	05/01/2014	08:35	2	WNW
05/01/2014	05:05	0	---	05/01/2014	08:40	0	NW
05/01/2014	05:10	0	---	05/01/2014	08:45	0	E
05/01/2014	05:15	0	---	05/01/2014	08:50	2	E
05/01/2014	05:20	0	---	05/01/2014	08:55	3	SE
05/01/2014	05:25	2	S	05/01/2014	09:00	3	SE
05/01/2014	05:30	2	S	05/01/2014	09:05	2	SSE
05/01/2014	05:35	0	SSW	05/01/2014	09:10	3	ESE
05/01/2014	05:40	0	---	05/01/2014	09:15	2	SE
05/01/2014	05:45	0	---	05/01/2014	09:20	2	SE
05/01/2014	05:50	0	---	05/01/2014	09:25	2	ESE
05/01/2014	05:55	0	---	05/01/2014	09:30	2	ESE
05/01/2014	06:00	0	---	05/01/2014	09:35	3	ESE
05/01/2014	06:05	0	---	05/01/2014	09:40	2	E
05/01/2014	06:10	0	---	05/01/2014	09:45	3	ESE
05/01/2014	06:15	0	---	05/01/2014	09:50	2	ESE
05/01/2014	06:20	0	---	05/01/2014	09:55	2	E
05/01/2014	06:25	0	---	05/01/2014	10:00	2	ESE
05/01/2014	06:30	0	---	05/01/2014	10:05	2	ENE
05/01/2014	06:35	0	---	05/01/2014	10:10	4	ESE
05/01/2014	06:40	0	---	05/01/2014	10:15	6	SSE
05/01/2014	06:45	0	---	05/01/2014	10:20	6	SE
05/01/2014	06:50	0	---	05/01/2014	10:25	5	SSE
05/01/2014	06:55	0	---	05/01/2014	10:30	6	SSE
05/01/2014	07:00	0	---	05/01/2014	10:35	7	SSE
05/01/2014	07:05	0	---	05/01/2014	10:40	5	SSE
05/01/2014	07:10	0	---	05/01/2014	10:45	5	SSE
05/01/2014	07:15	0	---	05/01/2014	10:50	6	SSE
05/01/2014	07:20	0	---	05/01/2014	10:55	8	SE
05/01/2014	07:25	0	---	05/01/2014	11:00	9	SSE
05/01/2014	07:30	0	---	05/01/2014	11:05	8	SSE
05/01/2014	07:35	0	---	05/01/2014	11:10	5	SSE
05/01/2014	07:40	0	---	05/01/2014	11:15	8	SSE
05/01/2014	07:45	0	---	05/01/2014	11:20	8	SSE
05/01/2014	07:50	2	S	05/01/2014	11:25	7	SSE
05/01/2014	07:55	2	SE	05/01/2014	11:30	8	SSE

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date	Time	Wind Speed (mph)	Wind Direction	Date	Time	Wind Speed (mph)	Wind Direction
05/01/2014	11:35	7	SSE	05/01/2014	15:10	7	SSE
05/01/2014	11:40	7	SSE	05/01/2014	15:15	8	SE
05/01/2014	11:45	6	SE	05/01/2014	15:20	8	SSE
05/01/2014	11:50	6	SSE	05/01/2014	15:25	7	SE
05/01/2014	11:55	6	SSE	05/01/2014	15:30	7	ESE
05/01/2014	12:00	6	SE	05/01/2014	15:35	8	SSE
05/01/2014	12:05	6	SE	05/01/2014	15:40	8	SE
05/01/2014	12:10	6	SE	05/01/2014	15:45	7	SE
05/01/2014	12:15	3	SE	05/01/2014	15:50	6	SE
05/01/2014	12:20	6	SSE	05/01/2014	15:55	6	SE
05/01/2014	12:25	5	SSE	05/01/2014	16:00	7	SE
05/01/2014	12:30	6	SE	05/01/2014	16:05	7	SE
05/01/2014	12:35	5	SSE	05/01/2014	16:10	5	SE
05/01/2014	12:40	6	SSE	05/01/2014	16:15	7	SSE
05/01/2014	12:45	6	SSE	05/01/2014	16:20	6	SE
05/01/2014	12:50	7	SSE	05/01/2014	16:25	7	SSE
05/01/2014	12:55	5	SSE	05/01/2014	16:30	7	SSE
05/01/2014	13:00	5	SSE	05/01/2014	16:35	7	SE
05/01/2014	13:05	5	SE	05/01/2014	16:40	6	SE
05/01/2014	13:10	5	SE	05/01/2014	16:45	7	SE
05/01/2014	13:15	6	SE	05/01/2014	16:50	6	SSE
05/01/2014	13:20	7	SE	05/01/2014	16:55	7	SSE
05/01/2014	13:25	7	SSE	05/01/2014	17:00	6	SSE
05/01/2014	13:30	7	SE	05/01/2014	17:05	5	SE
05/01/2014	13:35	5	SSE	05/01/2014	17:10	6	SSE
05/01/2014	13:40	5	SE	05/01/2014	17:15	5	ESE
05/01/2014	13:45	4	SSE	05/01/2014	17:20	4	SE
05/01/2014	13:50	7	SE	05/01/2014	17:25	7	SE
05/01/2014	13:55	6	SSE	05/01/2014	17:30	6	SSE
05/01/2014	14:00	6	SE	05/01/2014	17:35	6	SSE
05/01/2014	14:05	5	SSE	05/01/2014	17:40	4	SE
05/01/2014	14:10	5	SSE	05/01/2014	17:45	6	SSE
05/01/2014	14:15	6	SE	05/01/2014	17:50	8	SSE
05/01/2014	14:20	6	SE	05/01/2014	17:55	7	SSE
05/01/2014	14:25	8	SE	05/01/2014	18:00	7	SSE
05/01/2014	14:30	7	SE	05/01/2014	18:05	6	SSE
05/01/2014	14:35	8	SSE	05/01/2014	18:10	7	SSE
05/01/2014	14:40	9	SSE	05/01/2014	18:15	7	SSE
05/01/2014	14:45	7	SSE	05/01/2014	18:20	8	SSE
05/01/2014	14:50	7	SE	05/01/2014	18:25	8	SE
05/01/2014	14:55	8	SE	05/01/2014	18:30	4	SSE
05/01/2014	15:00	9	SSE	05/01/2014	18:35	7	SSE
05/01/2014	15:05	8	SE	05/01/2014	18:40	7	SE

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date	Time	Wind Speed (mph)	Wind Direction	Date	Time	Wind Speed (mph)	Wind Direction
05/01/2014	18:45	6	SE	05/01/2014	22:20	5	SE
05/01/2014	18:50	5	SSE	05/01/2014	22:25	6	SSE
05/01/2014	18:55	7	E	05/01/2014	22:30	7	SSE
05/01/2014	19:00	5	SSE	05/01/2014	22:35	6	SSE
05/01/2014	19:05	6	SE	05/01/2014	22:40	5	SSE
05/01/2014	19:10	6	SSE	05/01/2014	22:45	6	SE
05/01/2014	19:15	7	SSE	05/01/2014	22:50	8	SSE
05/01/2014	19:20	5	SSE	05/01/2014	22:55	7	SSE
05/01/2014	19:25	6	SE	05/01/2014	23:00	7	SSE
05/01/2014	19:30	6	SSE	05/01/2014	23:05	6	SSE
05/01/2014	19:35	6	SSE	05/01/2014	23:10	5	SE
05/01/2014	19:40	7	ESE	05/01/2014	23:15	5	SSE
05/01/2014	19:45	5	SSE	05/01/2014	23:20	6	SE
05/01/2014	19:50	3	NE	05/01/2014	23:25	2	S
05/01/2014	19:55	3	SSE	05/01/2014	23:30	5	NNE
05/01/2014	20:00	5	SSE	05/01/2014	23:35	5	SE
05/01/2014	20:05	6	SSE	05/01/2014	23:40	3	NNW
05/01/2014	20:10	4	SE	05/01/2014	23:45	2	ESE
05/01/2014	20:15	4	NE	05/01/2014	23:50	5	SE
05/01/2014	20:20	4	N	05/01/2014	23:55	4	NNW
05/01/2014	20:25	3	SSW	06/01/2014	00:00	2	NNW
05/01/2014	20:30	2	NNE	06/01/2014	00:05	4	SE
05/01/2014	20:35	3	NW	06/01/2014	00:10	5	SSE
05/01/2014	20:40	3	N	06/01/2014	00:15	5	E
05/01/2014	20:45	2	NW	06/01/2014	00:20	2	S
05/01/2014	20:50	3	NNW	06/01/2014	00:25	4	E
05/01/2014	20:55	4	N	06/01/2014	00:30	3	E
05/01/2014	21:00	1	SE	06/01/2014	00:35	4	N
05/01/2014	21:05	2	SE	06/01/2014	00:40	4	N
05/01/2014	21:10	4	SE	06/01/2014	00:45	5	N
05/01/2014	21:15	5	SSE	06/01/2014	00:50	4	ENE
05/01/2014	21:20	4	SSE	06/01/2014	00:55	3	SSE
05/01/2014	21:25	5	SSE	06/01/2014	01:00	5	NE
05/01/2014	21:30	4	SSE	06/01/2014	01:05	4	E
05/01/2014	21:35	4	SSE	06/01/2014	01:10	2	ESE
05/01/2014	21:40	5	SSE	06/01/2014	01:15	4	NE
05/01/2014	21:45	7	SSE	06/01/2014	01:20	3	SSE
05/01/2014	21:50	6	SSE	06/01/2014	01:25	2	E
05/01/2014	21:55	5	SSE	06/01/2014	01:30	4	SSE
05/01/2014	22:00	5	SSE	06/01/2014	01:35	4	SE
05/01/2014	22:05	4	SE	06/01/2014	01:40	2	SE
05/01/2014	22:10	6	SSE	06/01/2014	01:45	3	SSW
05/01/2014	22:15	7	SSE	06/01/2014	01:50	4	NNE

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date	Time	Wind Speed (mph)	Wind Direction	Date	Time	Wind Speed (mph)	Wind Direction
06/01/2014	01:55	4	ESE	06/01/2014	05:30	3	SSE
06/01/2014	02:00	4	E	06/01/2014	05:35	4	SE
06/01/2014	02:05	3	S	06/01/2014	05:40	5	SSE
06/01/2014	02:10	4	NNW	06/01/2014	05:45	4	SE
06/01/2014	02:15	5	SSE	06/01/2014	05:50	4	SE
06/01/2014	02:20	7	SE	06/01/2014	05:55	4	SE
06/01/2014	02:25	6	ESE	06/01/2014	06:00	4	NNW
06/01/2014	02:30	6	SE	06/01/2014	06:05	3	E
06/01/2014	02:35	8	SSE	06/01/2014	06:10	4	SE
06/01/2014	02:40	7	SSE	06/01/2014	06:15	3	SE
06/01/2014	02:45	6	SSE	06/01/2014	06:20	6	SSE
06/01/2014	02:50	7	SE	06/01/2014	06:25	7	SE
06/01/2014	02:55	6	SE	06/01/2014	06:30	7	SE
06/01/2014	03:00	6	SE	06/01/2014	06:35	8	SSE
06/01/2014	03:05	3	SSW	06/01/2014	06:40	8	SSE
06/01/2014	03:10	5	ESE	06/01/2014	06:45	9	SSE
06/01/2014	03:15	8	SE	06/01/2014	06:50	7	SE
06/01/2014	03:20	7	SSE	06/01/2014	06:55	6	SE
06/01/2014	03:25	7	SE	06/01/2014	07:00	4	ESE
06/01/2014	03:30	6	SSE	06/01/2014	07:05	6	ESE
06/01/2014	03:35	6	SSE	06/01/2014	07:10	5	SE
06/01/2014	03:40	6	SSE	06/01/2014	07:15	3	ENE
06/01/2014	03:45	6	SSE	06/01/2014	07:20	4	ESE
06/01/2014	03:50	7	SSE	06/01/2014	07:25	5	E
06/01/2014	03:55	8	SSE	06/01/2014	07:30	4	NE
06/01/2014	04:00	9	SSE	06/01/2014	07:35	4	ENE
06/01/2014	04:05	8	SSE	06/01/2014	07:40	5	NNE
06/01/2014	04:10	11	SSE	06/01/2014	07:45	5	N
06/01/2014	04:15	10	SSE	06/01/2014	07:50	3	NE
06/01/2014	04:20	10	SSE	06/01/2014	07:55	4	ESE
06/01/2014	04:25	11	SSE	06/01/2014	08:00	4	E
06/01/2014	04:30	11	SSE	06/01/2014	08:05	3	N
06/01/2014	04:35	8	SSE	06/01/2014	08:10	6	E
06/01/2014	04:40	8	SSE	06/01/2014	08:15	6	SE
06/01/2014	04:45	8	SSE	06/01/2014	08:20	6	E
06/01/2014	04:50	7	SSE	06/01/2014	08:25	3	E
06/01/2014	04:55	7	SE	06/01/2014	08:30	6	ESE
06/01/2014	05:00	8	SSE	06/01/2014	08:35	6	E
06/01/2014	05:05	7	SSE	06/01/2014	08:40	5	E
06/01/2014	05:10	6	SE	06/01/2014	08:45	5	E
06/01/2014	05:15	6	SSE	06/01/2014	08:50	5	ESE
06/01/2014	05:20	4	SE	06/01/2014	08:55	2	ESE
06/01/2014	05:25	4	SSE	06/01/2014	09:00	5	E

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date	Time	Wind Speed (mph)	Wind Direction	Date	Time	Wind Speed (mph)	Wind Direction
06/01/2014	09:05	5	ESE	06/01/2014	12:40	8	SE
06/01/2014	09:10	4	SE	06/01/2014	12:45	7	SE
06/01/2014	09:15	5	SE	06/01/2014	12:50	7	SE
06/01/2014	09:20	5	ESE	06/01/2014	12:55	7	SE
06/01/2014	09:25	4	NNE	06/01/2014	13:00	9	SE
06/01/2014	09:30	5	SE	06/01/2014	13:05	9	SSE
06/01/2014	09:35	3	SE	06/01/2014	13:10	10	SE
06/01/2014	09:40	4	SE	06/01/2014	13:15	11	SE
06/01/2014	09:45	6	SE	06/01/2014	13:20	12	SE
06/01/2014	09:50	5	SE	06/01/2014	13:25	10	SE
06/01/2014	09:55	5	SSE	06/01/2014	13:30	13	SE
06/01/2014	10:00	4	SSE	06/01/2014	13:35	12	SE
06/01/2014	10:05	4	SE	06/01/2014	13:40	12	SE
06/01/2014	10:10	7	SE	06/01/2014	13:45	11	SE
06/01/2014	10:15	9	SE	06/01/2014	13:50	10	SE
06/01/2014	10:20	9	SE	06/01/2014	13:55	10	SE
06/01/2014	10:25	8	ESE	06/01/2014	14:00	10	SE
06/01/2014	10:30	7	E	06/01/2014	14:05	9	SE
06/01/2014	10:35	7	ESE	06/01/2014	14:10	9	SE
06/01/2014	10:40	7	SE	06/01/2014	14:15	9	SE
06/01/2014	10:45	6	SE	06/01/2014	14:20	8	SE
06/01/2014	10:50	5	SSE	06/01/2014	14:25	9	SE
06/01/2014	10:55	4	SE	06/01/2014	14:30	10	SE
06/01/2014	11:00	6	E	06/01/2014	14:35	9	SE
06/01/2014	11:05	7	E	06/01/2014	14:40	9	SE
06/01/2014	11:10	5	ESE	06/01/2014	14:45	8	SE
06/01/2014	11:15	7	SE	06/01/2014	14:50	9	SSE
06/01/2014	11:20	5	SE	06/01/2014	14:55	10	SE
06/01/2014	11:25	6	SSE	06/01/2014	15:00	9	SE
06/01/2014	11:30	6	SE	06/01/2014	15:05	9	SE
06/01/2014	11:35	7	SSE	06/01/2014	15:10	9	SE
06/01/2014	11:40	5	SE	06/01/2014	15:15	8	SE
06/01/2014	11:45	5	SE	06/01/2014	15:20	7	SSE
06/01/2014	11:50	5	ESE	06/01/2014	15:25	7	SSE
06/01/2014	11:55	4	SE	06/01/2014	15:30	9	SE
06/01/2014	12:00	5	SSE	06/01/2014	15:35	9	SE
06/01/2014	12:05	5	SE	06/01/2014	15:40	10	SE
06/01/2014	12:10	6	SSE	06/01/2014	15:45	11	SE
06/01/2014	12:15	9	SSE	06/01/2014	15:50	8	SE
06/01/2014	12:20	7	SSE	06/01/2014	15:55	10	SE
06/01/2014	12:25	7	SSE	06/01/2014	16:00	11	SE
06/01/2014	12:30	8	SE	06/01/2014	16:05	10	SE
06/01/2014	12:35	10	SE	06/01/2014	16:10	9	SE

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date	Time	Wind Speed (mph)	Wind Direction	Date	Time	Wind Speed (mph)	Wind Direction
06/01/2014	16:15	10	SE	06/01/2014	19:50	8	SSE
06/01/2014	16:20	8	SE	06/01/2014	19:55	9	SSE
06/01/2014	16:25	11	SE	06/01/2014	20:00	9	SSE
06/01/2014	16:30	12	SE	06/01/2014	20:05	7	SSE
06/01/2014	16:35	11	SE	06/01/2014	20:10	9	SSE
06/01/2014	16:40	11	SSE	06/01/2014	20:15	9	SSE
06/01/2014	16:45	10	SSE	06/01/2014	20:20	8	SSE
06/01/2014	16:50	11	SSE	06/01/2014	20:25	8	SSE
06/01/2014	16:55	12	SE	06/01/2014	20:30	7	SSE
06/01/2014	17:00	11	SE	06/01/2014	20:35	8	SSE
06/01/2014	17:05	11	SE	06/01/2014	20:40	9	SSE
06/01/2014	17:10	12	SSE	06/01/2014	20:45	9	SSE
06/01/2014	17:15	12	SE	06/01/2014	20:50	10	SSE
06/01/2014	17:20	9	SE	06/01/2014	20:55	10	SE
06/01/2014	17:25	8	ESE	06/01/2014	21:00	10	SE
06/01/2014	17:30	6	ESE	06/01/2014	21:05	9	SE
06/01/2014	17:35	5	ESE	06/01/2014	21:10	10	SE
06/01/2014	17:40	6	ESE	06/01/2014	21:15	10	SE
06/01/2014	17:45	6	ESE	06/01/2014	21:20	10	SE
06/01/2014	17:50	6	SE	06/01/2014	21:25	10	SE
06/01/2014	17:55	7	ESE	06/01/2014	21:30	10	ESE
06/01/2014	18:00	7	SE	06/01/2014	21:35	10	SE
06/01/2014	18:05	5	ESE	06/01/2014	21:40	9	ESE
06/01/2014	18:10	7	ESE	06/01/2014	21:45	9	SE
06/01/2014	18:15	6	E	06/01/2014	21:50	8	SE
06/01/2014	18:20	1	SE	06/01/2014	21:55	7	SE
06/01/2014	18:25	4	E	06/01/2014	22:00	8	SE
06/01/2014	18:30	2	SSE	06/01/2014	22:05	10	SE
06/01/2014	18:35	4	SE	06/01/2014	22:10	8	SE
06/01/2014	18:40	3	SSE	06/01/2014	22:15	8	SE
06/01/2014	18:45	4	ESE	06/01/2014	22:20	7	SE
06/01/2014	18:50	7	SE	06/01/2014	22:25	7	SE
06/01/2014	18:55	4	E	06/01/2014	22:30	9	ESE
06/01/2014	19:00	4	E	06/01/2014	22:35	8	SE
06/01/2014	19:05	4	SE	06/01/2014	22:40	7	SE
06/01/2014	19:10	4	E	06/01/2014	22:45	8	SE
06/01/2014	19:15	5	SSE	06/01/2014	22:50	8	ESE
06/01/2014	19:20	7	SSE	06/01/2014	22:55	9	SE
06/01/2014	19:25	4	SE	06/01/2014	23:00	10	SE
06/01/2014	19:30	8	SSE	06/01/2014	23:05	11	SE
06/01/2014	19:35	8	SSE	06/01/2014	23:10	8	SE
06/01/2014	19:40	8	SSE	06/01/2014	23:15	10	SE
06/01/2014	19:45	9	SSE	06/01/2014	23:20	11	SE

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date	Time	Wind Speed (mph)	Wind Direction	Date	Time	Wind Speed (mph)	Wind Direction
06/01/2014	23:25	11	SE	07/01/2014	03:00	9	SSE
06/01/2014	23:30	11	SE	07/01/2014	03:05	8	SSE
06/01/2014	23:35	11	SE	07/01/2014	03:10	9	SSE
06/01/2014	23:40	12	SE	07/01/2014	03:15	10	SE
06/01/2014	23:45	12	SE	07/01/2014	03:20	9	SSE
06/01/2014	23:50	11	SE	07/01/2014	03:25	9	SSE
06/01/2014	23:55	10	SE	07/01/2014	03:30	7	SSE
07/01/2014	00:00	11	SE	07/01/2014	03:35	6	SE
07/01/2014	00:05	10	SE	07/01/2014	03:40	8	SSE
07/01/2014	00:10	11	SE	07/01/2014	03:45	7	SSE
07/01/2014	00:15	11	SE	07/01/2014	03:50	8	SE
07/01/2014	00:20	11	SE	07/01/2014	03:55	8	ESE
07/01/2014	00:25	11	SE	07/01/2014	04:00	4	E
07/01/2014	00:30	12	SE	07/01/2014	04:05	6	SE
07/01/2014	00:35	10	SE	07/01/2014	04:10	5	SE
07/01/2014	00:40	9	SSE	07/01/2014	04:15	5	SE
07/01/2014	00:45	9	SSE	07/01/2014	04:20	7	SSE
07/01/2014	00:50	9	SSE	07/01/2014	04:25	8	SE
07/01/2014	00:55	9	SSE	07/01/2014	04:30	8	SSE
07/01/2014	01:00	9	SSE	07/01/2014	04:35	8	SSE
07/01/2014	01:05	9	SSE	07/01/2014	04:40	8	SSE
07/01/2014	01:10	10	SSE	07/01/2014	04:45	6	SSE
07/01/2014	01:15	10	SSE	07/01/2014	04:50	4	SE
07/01/2014	01:20	10	SSE	07/01/2014	04:55	6	ESE
07/01/2014	01:25	9	SSE	07/01/2014	05:00	6	SE
07/01/2014	01:30	10	SSE	07/01/2014	05:05	9	SE
07/01/2014	01:35	9	SSE	07/01/2014	05:10	10	SSE
07/01/2014	01:40	10	SSE	07/01/2014	05:15	9	SE
07/01/2014	01:45	10	SSE	07/01/2014	05:20	12	SE
07/01/2014	01:50	9	SSE	07/01/2014	05:25	12	SE
07/01/2014	01:55	10	SSE	07/01/2014	05:30	10	SE
07/01/2014	02:00	10	SSE	07/01/2014	05:35	8	SE
07/01/2014	02:05	9	SSE	07/01/2014	05:40	11	SSE
07/01/2014	02:10	8	SSE	07/01/2014	05:45	9	SE
07/01/2014	02:15	9	SSE	07/01/2014	05:50	10	SSE
07/01/2014	02:20	8	SSE	07/01/2014	05:55	8	SSE
07/01/2014	02:25	9	SE	07/01/2014	06:00	7	SE
07/01/2014	02:30	7	SSE	07/01/2014	06:05	8	SE
07/01/2014	02:35	8	SE	07/01/2014	06:10	8	SE
07/01/2014	02:40	9	SSE	07/01/2014	06:15	10	SSE
07/01/2014	02:45	9	SSE	07/01/2014	06:20	9	SSE
07/01/2014	02:50	10	SSE	07/01/2014	06:25	10	SSE
07/01/2014	02:55	9	SE	07/01/2014	06:30	10	SSE

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date	Time	Wind Speed (mph)	Wind Direction	Date	Time	Wind Speed (mph)	Wind Direction
07/01/2014	06:35	9	SSE	07/01/2014	10:10	13	SE
07/01/2014	06:40	7	SSE	07/01/2014	10:15	15	SE
07/01/2014	06:45	7	SSE	07/01/2014	10:20	14	SE
07/01/2014	06:50	6	SSE	07/01/2014	10:25	14	SE
07/01/2014	06:55	6	SSE	07/01/2014	10:30	14	SE
07/01/2014	07:00	8	SSE	07/01/2014	10:35	15	SE
07/01/2014	07:05	8	SSE	07/01/2014	10:40	16	SE
07/01/2014	07:10	7	SSE	07/01/2014	10:45	15	SE
07/01/2014	07:15	8	SSE	07/01/2014	10:50	14	SE
07/01/2014	07:20	10	SE	07/01/2014	10:55	14	SE
07/01/2014	07:25	7	SSE	07/01/2014	11:00	12	SE
07/01/2014	07:30	6	SSE	07/01/2014	11:05	15	SE
07/01/2014	07:35	5	SSE	07/01/2014	11:10	14	SE
07/01/2014	07:40	7	SSE	07/01/2014	11:15	12	SE
07/01/2014	07:45	9	SSE	07/01/2014	11:20	11	SE
07/01/2014	07:50	8	SSE	07/01/2014	11:25	10	SE
07/01/2014	07:55	11	SSE	07/01/2014	11:30	12	SE
07/01/2014	08:00	12	SSE	07/01/2014	11:35	13	SE
07/01/2014	08:05	7	SE	07/01/2014	11:40	13	SE
07/01/2014	08:10	7	SE	07/01/2014	11:45	14	SE
07/01/2014	08:15	10	SSE	07/01/2014	11:50	13	SE
07/01/2014	08:20	9	SE	07/01/2014	11:55	12	SE
07/01/2014	08:25	9	SSE	07/01/2014	12:00	11	SE
07/01/2014	08:30	6	SE	07/01/2014	12:05	12	SE
07/01/2014	08:35	8	SSE	07/01/2014	12:10	11	SE
07/01/2014	08:40	8	SE	07/01/2014	12:15	12	SE
07/01/2014	08:45	8	SE	07/01/2014	12:20	11	SE
07/01/2014	08:50	9	SE	07/01/2014	12:25	12	SE
07/01/2014	08:55	10	SE	07/01/2014	12:30	11	SE
07/01/2014	09:00	8	SSE	07/01/2014	12:35	10	SE
07/01/2014	09:05	7	SE	07/01/2014	12:40	12	SE
07/01/2014	09:10	10	SE	07/01/2014	12:45	12	SE
07/01/2014	09:15	11	SE	07/01/2014	12:50	12	SE
07/01/2014	09:20	11	SE	07/01/2014	12:55	12	SE
07/01/2014	09:25	12	SE	07/01/2014	13:00	10	SE
07/01/2014	09:30	12	SE	07/01/2014	13:05	10	SE
07/01/2014	09:35	12	SE	07/01/2014	13:10	10	SE
07/01/2014	09:40	11	SE	07/01/2014	13:15	11	SE
07/01/2014	09:45	12	SE	07/01/2014	13:20	12	SE
07/01/2014	09:50	14	SE	07/01/2014	13:25	11	SE
07/01/2014	09:55	13	SE	07/01/2014	13:30	11	SE
07/01/2014	10:00	14	SE	07/01/2014	13:35	12	SE
07/01/2014	10:05	12	SE	07/01/2014	13:40	12	SE

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date	Time	Wind Speed (mph)	Wind Direction	Date	Time	Wind Speed (mph)	Wind Direction
07/01/2014	13:45	11	SE	07/01/2014	17:20	11	SE
07/01/2014	13:50	12	SE	07/01/2014	17:25	11	SE
07/01/2014	13:55	11	SE	07/01/2014	17:30	10	SE
07/01/2014	14:00	11	SE	07/01/2014	17:35	11	SSE
07/01/2014	14:05	11	SE	07/01/2014	17:40	11	SE
07/01/2014	14:10	12	SE	07/01/2014	17:45	12	SE
07/01/2014	14:15	11	SE	07/01/2014	17:50	10	SE
07/01/2014	14:20	11	SE	07/01/2014	17:55	11	SE
07/01/2014	14:25	11	SE	07/01/2014	18:00	9	SSE
07/01/2014	14:30	12	SE	07/01/2014	18:05	7	SE
07/01/2014	14:35	11	SE	07/01/2014	18:10	8	SE
07/01/2014	14:40	12	SE	07/01/2014	18:15	10	SE
07/01/2014	14:45	13	SE	07/01/2014	18:20	9	SE
07/01/2014	14:50	13	SE	07/01/2014	18:25	9	SE
07/01/2014	14:55	13	SE	07/01/2014	18:30	10	SE
07/01/2014	15:00	12	SE	07/01/2014	18:35	10	SSE
07/01/2014	15:05	13	SE	07/01/2014	18:40	10	SE
07/01/2014	15:10	12	SE	07/01/2014	18:45	10	SSE
07/01/2014	15:15	12	SE	07/01/2014	18:50	8	SSE
07/01/2014	15:20	12	SE	07/01/2014	18:55	8	SSE
07/01/2014	15:25	12	SE	07/01/2014	19:00	7	SSE
07/01/2014	15:30	11	SE	07/01/2014	19:05	5	SSE
07/01/2014	15:35	10	SE	07/01/2014	19:10	6	SSE
07/01/2014	15:40	10	SE	07/01/2014	19:15	7	SSE
07/01/2014	15:45	11	SE	07/01/2014	19:20	5	SSE
07/01/2014	15:50	12	SE	07/01/2014	19:25	7	SSE
07/01/2014	15:55	12	SE	07/01/2014	19:30	6	SSE
07/01/2014	16:00	11	SE	07/01/2014	19:35	3	SSE
07/01/2014	16:05	10	SE	07/01/2014	19:40	4	SSE
07/01/2014	16:10	10	SE	07/01/2014	19:45	5	SSE
07/01/2014	16:15	11	SE	07/01/2014	19:50	6	SSE
07/01/2014	16:20	12	SE	07/01/2014	19:55	4	SSE
07/01/2014	16:25	12	SE	07/01/2014	20:00	1	WNW
07/01/2014	16:30	11	SSE	07/01/2014	20:05	3	NNE
07/01/2014	16:35	12	SE	07/01/2014	20:10	2	NNE
07/01/2014	16:40	11	SE	07/01/2014	20:15	2	SSE
07/01/2014	16:45	9	SE	07/01/2014	20:20	3	SSE
07/01/2014	16:50	11	SE	07/01/2014	20:25	4	SE
07/01/2014	16:55	12	SE	07/01/2014	20:30	3	SSE
07/01/2014	17:00	11	SE	07/01/2014	20:35	3	SE
07/01/2014	17:05	12	SE	07/01/2014	20:40	7	SSE
07/01/2014	17:10	12	SE	07/01/2014	20:45	6	SSE
07/01/2014	17:15	11	SE	07/01/2014	20:50	5	SSE

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date	Time	Wind Speed (mph)	Wind Direction	Date	Time	Wind Speed (mph)	Wind Direction
07/01/2014	20:55	6	SSE	08/01/2014	00:30	0	NW
07/01/2014	21:00	5	SE	08/01/2014	00:35	2	NW
07/01/2014	21:05	5	SE	08/01/2014	00:40	1	W
07/01/2014	21:10	6	SSE	08/01/2014	00:45	0	WSW
07/01/2014	21:15	4	SSE	08/01/2014	00:50	3	E
07/01/2014	21:20	5	SE	08/01/2014	00:55	4	SE
07/01/2014	21:25	3	NNW	08/01/2014	01:00	4	SE
07/01/2014	21:30	2	NW	08/01/2014	01:05	4	E
07/01/2014	21:35	2	NNE	08/01/2014	01:10	2	E
07/01/2014	21:40	1	W	08/01/2014	01:15	1	S
07/01/2014	21:45	2	SSE	08/01/2014	01:20	0	WSW
07/01/2014	21:50	6	SSE	08/01/2014	01:25	0	WSW
07/01/2014	21:55	5	SSE	08/01/2014	01:30	1	E
07/01/2014	22:00	1	S	08/01/2014	01:35	2	SSE
07/01/2014	22:05	2	NNW	08/01/2014	01:40	1	SW
07/01/2014	22:10	2	SE	08/01/2014	01:45	0	---
07/01/2014	22:15	1	SE	08/01/2014	01:50	0	NW
07/01/2014	22:20	1	SE	08/01/2014	01:55	3	SSE
07/01/2014	22:25	0	---	08/01/2014	02:00	2	SSE
07/01/2014	22:30	1	NNW	08/01/2014	02:05	1	SSW
07/01/2014	22:35	2	NNW	08/01/2014	02:10	0	W
07/01/2014	22:40	1	NNW	08/01/2014	02:15	2	W
07/01/2014	22:45	0	NNE	08/01/2014	02:20	3	WNW
07/01/2014	22:50	0	---	08/01/2014	02:25	2	NW
07/01/2014	22:55	0	---	08/01/2014	02:30	3	NW
07/01/2014	23:00	2	NNW	08/01/2014	02:35	3	NW
07/01/2014	23:05	2	NNW	08/01/2014	02:40	3	NW
07/01/2014	23:10	0	SE	08/01/2014	02:45	3	NW
07/01/2014	23:15	1	ESE	08/01/2014	02:50	2	NNW
07/01/2014	23:20	0	E	08/01/2014	02:55	1	NNW
07/01/2014	23:25	1	NW	08/01/2014	03:00	2	NW
07/01/2014	23:30	0	NW	08/01/2014	03:05	2	NW
07/01/2014	23:35	0	---	08/01/2014	03:10	1	NW
07/01/2014	23:40	4	E	08/01/2014	03:15	1	NW
07/01/2014	23:45	1	E	08/01/2014	03:20	0	NW
07/01/2014	23:50	2	WSW	08/01/2014	03:25	0	---
07/01/2014	23:55	2	WNW	08/01/2014	03:30	0	---
08/01/2014	00:00	0	---	08/01/2014	03:35	0	---
08/01/2014	00:05	1	WNW	08/01/2014	03:40	1	NW
08/01/2014	00:10	2	WNW	08/01/2014	03:45	1	NW
08/01/2014	00:15	2	NNW	08/01/2014	03:50	0	NW
08/01/2014	00:20	1	NNW	08/01/2014	03:55	0	---
08/01/2014	00:25	1	NW	08/01/2014	04:00	0	---

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date	Time	Wind Speed (mph)	Wind Direction	Date	Time	Wind Speed (mph)	Wind Direction
08/01/2014	04:05	0	NW	08/01/2014	07:40	0	SSE
08/01/2014	04:10	0	NW	08/01/2014	07:45	0	SSE
08/01/2014	04:15	0	WNW	08/01/2014	07:50	0	SSE
08/01/2014	04:20	2	WNW	08/01/2014	07:55	0	SSE
08/01/2014	04:25	2	WNW	08/01/2014	08:00	0	ESE
08/01/2014	04:30	2	WNW	08/01/2014	08:05	0	---
08/01/2014	04:35	2	NNW	08/01/2014	08:10	0	---
08/01/2014	04:40	2	WNW	08/01/2014	08:15	0	---
08/01/2014	04:45	2	WNW	08/01/2014	08:20	0	---
08/01/2014	04:50	1	NW	08/01/2014	08:25	0	---
08/01/2014	04:55	2	NW	08/01/2014	08:30	0	---
08/01/2014	05:00	2	WNW	08/01/2014	08:35	0	---
08/01/2014	05:05	1	NW	08/01/2014	08:40	0	---
08/01/2014	05:10	1	NNW	08/01/2014	08:45	0	---
08/01/2014	05:15	0	W	08/01/2014	08:50	1	ENE
08/01/2014	05:20	3	SW	08/01/2014	08:55	0	ENE
08/01/2014	05:25	2	SW	08/01/2014	09:00	1	ENE
08/01/2014	05:30	1	NW	08/01/2014	09:05	1	ESE
08/01/2014	05:35	1	WNW	08/01/2014	09:10	1	SSE
08/01/2014	05:40	1	NW	08/01/2014	09:15	0	---
08/01/2014	05:45	1	NNW	08/01/2014	09:20	0	---
08/01/2014	05:50	2	NW	08/01/2014	09:25	0	---
08/01/2014	05:55	2	WNW	08/01/2014	09:30	0	---
08/01/2014	06:00	0	WNW	08/01/2014	09:35	0	---
08/01/2014	06:05	0	---	08/01/2014	09:40	0	---
08/01/2014	06:10	0	WNW	08/01/2014	09:45	0	---
08/01/2014	06:15	1	SE	08/01/2014	09:50	0	---
08/01/2014	06:20	2	SE	08/01/2014	09:55	1	NW
08/01/2014	06:25	2	SE	08/01/2014	10:00	0	NW
08/01/2014	06:30	2	SE	08/01/2014	10:05	0	NW
08/01/2014	06:35	2	SE	08/01/2014	10:10	1	NW
08/01/2014	06:40	1	SE	08/01/2014	10:15	0	---
08/01/2014	06:45	2	SSE	08/01/2014	10:20	0	---
08/01/2014	06:50	1	S	08/01/2014	10:25	0	---
08/01/2014	06:55	1	SSE	08/01/2014	10:30	0	---
08/01/2014	07:00	0	SSE	08/01/2014	10:35	0	---
08/01/2014	07:05	0	---	08/01/2014	10:40	1	ENE
08/01/2014	07:10	0	---	08/01/2014	10:45	1	NE
08/01/2014	07:15	0	---	08/01/2014	10:50	0	NE
08/01/2014	07:20	0	SSE	08/01/2014	10:55	0	---
08/01/2014	07:25	0	SSE	08/01/2014	11:00	0	---
08/01/2014	07:30	0	SSE	08/01/2014	11:05	0	---
08/01/2014	07:35	0	---	08/01/2014	11:10	0	N

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date	Time	Wind Speed (mph)	Wind Direction	Date	Time	Wind Speed (mph)	Wind Direction
08/01/2014	11:15	2	N	08/01/2014	14:50	9	NNE
08/01/2014	11:20	4	NNE	08/01/2014	14:55	8	NNW
08/01/2014	11:25	5	N	08/01/2014	15:00	9	NNW
08/01/2014	11:30	4	N	08/01/2014	15:05	7	NNW
08/01/2014	11:35	4	N	08/01/2014	15:10	9	N
08/01/2014	11:40	4	NNW	08/01/2014	15:15	9	N
08/01/2014	11:45	3	NNW	08/01/2014	15:20	9	N
08/01/2014	11:50	2	NNW	08/01/2014	15:25	6	NNW
08/01/2014	11:55	3	NNW	08/01/2014	15:30	7	NNW
08/01/2014	12:00	2	N	08/01/2014	15:35	3	NW
08/01/2014	12:05	3	NNW	08/01/2014	15:40	7	NNW
08/01/2014	12:10	2	NW	08/01/2014	15:45	6	W
08/01/2014	12:15	4	NNW	08/01/2014	15:50	4	NW
08/01/2014	12:20	1	NNW	08/01/2014	15:55	4	WNW
08/01/2014	12:25	1	W	08/01/2014	16:00	5	WNW
08/01/2014	12:30	0	W	08/01/2014	16:05	5	NNW
08/01/2014	12:35	1	N	08/01/2014	16:10	5	NNW
08/01/2014	12:40	2	NNW	08/01/2014	16:15	4	NW
08/01/2014	12:45	3	NW	08/01/2014	16:20	4	WNW
08/01/2014	12:50	2	WNW	08/01/2014	16:25	5	NW
08/01/2014	12:55	3	W	08/01/2014	16:30	3	NNW
08/01/2014	13:00	2	W	08/01/2014	16:35	2	WNW
08/01/2014	13:05	2	WNW	08/01/2014	16:40	5	WNW
08/01/2014	13:10	1	WNW	08/01/2014	16:45	5	WNW
08/01/2014	13:15	4	NNW	08/01/2014	16:50	5	NW
08/01/2014	13:20	4	NNW	08/01/2014	16:55	4	WNW
08/01/2014	13:25	3	NNE	08/01/2014	17:00	3	WNW
08/01/2014	13:30	2	N	08/01/2014	17:05	5	NW
08/01/2014	13:35	2	NNW	08/01/2014	17:10	4	NW
08/01/2014	13:40	6	N	08/01/2014	17:15	4	NNW
08/01/2014	13:45	4	N	08/01/2014	17:20	3	NW
08/01/2014	13:50	6	NNE	08/01/2014	17:25	4	NW
08/01/2014	13:55	5	NNE	08/01/2014	17:30	7	NW
08/01/2014	14:00	2	N	08/01/2014	17:35	7	NNW
08/01/2014	14:05	3	NNW	08/01/2014	17:40	4	NW
08/01/2014	14:10	2	N	08/01/2014	17:45	4	NW
08/01/2014	14:15	6	N	08/01/2014	17:50	4	NW
08/01/2014	14:20	7	N	08/01/2014	17:55	6	NW
08/01/2014	14:25	6	NNW	08/01/2014	18:00	6	NNW
08/01/2014	14:30	8	NNW	08/01/2014	18:05	6	NNW
08/01/2014	14:35	9	NNW	08/01/2014	18:10	7	NNW
08/01/2014	14:40	9	NNW	08/01/2014	18:15	8	NNW
08/01/2014	14:45	10	NNW	08/01/2014	18:20	6	NW

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date	Time	Wind Speed (mph)	Wind Direction	Date	Time	Wind Speed (mph)	Wind Direction
08/01/2014	18:25	7	NNW	08/01/2014	22:00	2	NE
08/01/2014	18:30	5	NNW	08/01/2014	22:05	2	ENE
08/01/2014	18:35	8	NNW	08/01/2014	22:10	2	NE
08/01/2014	18:40	9	NNW	08/01/2014	22:15	4	NNE
08/01/2014	18:45	10	NNW	08/01/2014	22:20	4	NE
08/01/2014	18:50	8	NNW	08/01/2014	22:25	3	NE
08/01/2014	18:55	9	NNW	08/01/2014	22:30	2	ENE
08/01/2014	19:00	6	NW	08/01/2014	22:35	2	ENE
08/01/2014	19:05	8	NNW	08/01/2014	22:40	1	ENE
08/01/2014	19:10	7	NNW	08/01/2014	22:45	2	ENE
08/01/2014	19:15	7	NNW	08/01/2014	22:50	3	ENE
08/01/2014	19:20	5	NW	08/01/2014	22:55	2	ENE
08/01/2014	19:25	3	NNW	08/01/2014	23:00	2	ENE
08/01/2014	19:30	1	NE	08/01/2014	23:05	2	NE
08/01/2014	19:35	4	NE	08/01/2014	23:10	3	NNE
08/01/2014	19:40	5	NE	08/01/2014	23:15	2	NNE
08/01/2014	19:45	4	NE	08/01/2014	23:20	4	NNE
08/01/2014	19:50	4	NE	08/01/2014	23:25	4	NE
08/01/2014	19:55	4	NE	08/01/2014	23:30	4	NE
08/01/2014	20:00	4	NE	08/01/2014	23:35	6	NE
08/01/2014	20:05	5	NE	08/01/2014	23:40	5	NE
08/01/2014	20:10	4	NE	08/01/2014	23:45	5	NE
08/01/2014	20:15	4	NE	08/01/2014	23:50	5	NE
08/01/2014	20:20	5	NE	08/01/2014	23:55	4	NE
08/01/2014	20:25	4	NNE	09/01/2014	00:00	4	NE
08/01/2014	20:30	5	NNE	09/01/2014	00:05	6	ENE
08/01/2014	20:35	6	NE	09/01/2014	00:10	4	NE
08/01/2014	20:40	4	NE	09/01/2014	00:15	5	NE
08/01/2014	20:45	6	NE	09/01/2014	00:20	4	NE
08/01/2014	20:50	5	NE	09/01/2014	00:25	5	NE
08/01/2014	20:55	4	NE	09/01/2014	00:30	4	NE
08/01/2014	21:00	5	ENE	09/01/2014	00:35	4	NE
08/01/2014	21:05	4	NE	09/01/2014	00:40	3	NE
08/01/2014	21:10	5	NE	09/01/2014	00:45	4	NE
08/01/2014	21:15	5	NE	09/01/2014	00:50	5	NE
08/01/2014	21:20	4	NE	09/01/2014	00:55	6	NE
08/01/2014	21:25	3	NE	09/01/2014	01:00	5	NE
08/01/2014	21:30	3	NE	09/01/2014	01:05	6	NE
08/01/2014	21:35	4	NE	09/01/2014	01:10	5	NE
08/01/2014	21:40	2	ENE	09/01/2014	01:15	5	NE
08/01/2014	21:45	4	ENE	09/01/2014	01:20	5	NE
08/01/2014	21:50	2	NNE				
08/01/2014	21:55	3	NE				

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date	Time	Wind Speed (mph)	Wind Direction	Date	Time	Wind Speed (mph)	Wind Direction
09/01/2014	01:25	5	NE	09/01/2014	04:40	4	E
09/01/2014	01:30	5	NE	09/01/2014	04:45	3	E
09/01/2014	01:35	5	NE	09/01/2014	04:50	4	ENE
09/01/2014	01:40	4	NE	09/01/2014	04:55	5	E
09/01/2014	01:45	3	NE	09/01/2014	05:00	5	E
09/01/2014	01:50	2	NE	09/01/2014	05:05	6	E
09/01/2014	01:55	2	ESE	09/01/2014	05:10	5	ENE
09/01/2014	02:00	1	ESE	09/01/2014	05:15	7	E
09/01/2014	02:05	1	ENE	09/01/2014	05:20	5	E
09/01/2014	02:10	2	ESE	09/01/2014	05:25	3	ENE
09/01/2014	02:15	2	NE	09/01/2014	05:30	6	E
09/01/2014	02:20	2	NE	09/01/2014	05:35	7	E
09/01/2014	02:25	2	SE	09/01/2014	05:40	6	E
09/01/2014	02:30	0	SE	09/01/2014	05:45	5	E
09/01/2014	02:35	2	NE	09/01/2014	05:50	7	E
09/01/2014	02:40	4	ENE	09/01/2014	05:55	6	E
09/01/2014	02:45	3	E	09/01/2014	06:00	6	E
09/01/2014	02:50	5	E	09/01/2014	06:05	7	E
09/01/2014	02:55	4	E	09/01/2014	06:10	3	ENE
09/01/2014	03:00	2	E	09/01/2014	06:15	3	ESE
09/01/2014	03:05	3	E	09/01/2014	06:20	2	SE
09/01/2014	03:10	4	E	09/01/2014	06:25	3	SSE
09/01/2014	03:15	4	E	09/01/2014	06:30	2	SSE
09/01/2014	03:20	1	E	09/01/2014	06:35	3	SE
09/01/2014	03:25	1	ENE	09/01/2014	06:40	1	SSE
09/01/2014	03:30	0	ENE	09/01/2014	06:45	3	SSE
09/01/2014	03:35	0	N	09/01/2014	06:50	1	SE
09/01/2014	03:40	0	---	09/01/2014	06:55	0	---
09/01/2014	03:45	2	ENE	09/01/2014	07:00	1	ENE
09/01/2014	03:50	4	NE	09/01/2014	07:05	4	ENE
09/01/2014	03:55	0	NE	09/01/2014	07:10	4	E
09/01/2014	04:00	2	SE	09/01/2014	07:15	4	ENE
09/01/2014	04:05	3	SSE	09/01/2014	07:20	3	ESE
09/01/2014	04:10	2	E	09/01/2014	07:25	3	E
09/01/2014	04:15	2	E	09/01/2014	07:30	1	ESE
09/01/2014	04:20	5	ENE	09/01/2014	07:35	2	SE
09/01/2014	04:25	4	ENE	09/01/2014	07:40	4	E
09/01/2014	04:30	4	E	09/01/2014	07:45	5	ENE
09/01/2014	04:35	5	ENE	09/01/2014	07:50	4	ENE

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date	Time	Wind Speed (mph)	Wind Direction	Date	Time	Wind Speed (mph)	Wind Direction
09/01/2014	07:55	3	ENE	09/01/2014	11:10	2	ENE
09/01/2014	08:00	3	E	09/01/2014	11:15	3	ENE
09/01/2014	08:05	2	ESE	09/01/2014	11:20	2	NNE
09/01/2014	08:10	2	ENE	09/01/2014	11:25	1	E
09/01/2014	08:15	1	ESE	09/01/2014	11:30	1	E
09/01/2014	08:20	2	ENE	09/01/2014	11:35	1	ENE
09/01/2014	08:25	4	ENE	09/01/2014	11:40	1	ENE
09/01/2014	08:30	2	E	09/01/2014	11:45	0	---
09/01/2014	08:35	3	ENE	09/01/2014	11:50	0	---
09/01/2014	08:40	1	ENE	09/01/2014	11:55	0	---
09/01/2014	08:45	4	ENE	09/01/2014	12:00	0	---
09/01/2014	08:50	2	NE	09/01/2014	12:05	0	---
09/01/2014	08:55	1	E	09/01/2014	12:10	0	---
09/01/2014	09:00	2	SE	09/01/2014	12:15	0	---
09/01/2014	09:05	2	ENE	09/01/2014	12:20	0	SE
09/01/2014	09:10	2	ENE	09/01/2014	12:25	1	SE
09/01/2014	09:15	2	NE	09/01/2014	12:30	2	ESE
09/01/2014	09:20	2	ENE	09/01/2014	12:35	2	ENE
09/01/2014	09:25	4	E	09/01/2014	12:40	1	E
09/01/2014	09:30	4	E	09/01/2014	12:45	1	ENE
09/01/2014	09:35	5	ENE	09/01/2014	12:50	2	SE
09/01/2014	09:40	3	E	09/01/2014	12:55	3	E
09/01/2014	09:45	3	ENE	09/01/2014	13:00	2	E
09/01/2014	09:50	3	E	09/01/2014	13:05	2	SSE
09/01/2014	09:55	2	NE	09/01/2014	13:10	1	ESE
09/01/2014	10:00	3	NE	09/01/2014	13:15	1	S
09/01/2014	10:05	2	ESE	09/01/2014	13:20	1	E
09/01/2014	10:10	2	NE	09/01/2014	13:25	1	ESE
09/01/2014	10:15	2	NE	09/01/2014	13:30	2	ESE
09/01/2014	10:20	1	ENE	09/01/2014	13:35	1	E
09/01/2014	10:25	3	NE	09/01/2014	13:40	1	ENE
09/01/2014	10:30	4	ENE	09/01/2014	13:45	1	NE
09/01/2014	10:35	2	ENE	09/01/2014	13:50	3	E
09/01/2014	10:40	0	NE	09/01/2014	13:55	2	E
09/01/2014	10:45	2	E	09/01/2014	14:00	2	ENE
09/01/2014	10:50	2	E	09/01/2014	14:05	3	ENE
09/01/2014	10:55	2	ENE	09/01/2014	14:10	3	ENE
09/01/2014	11:00	1	E	09/01/2014	14:15	2	E
09/01/2014	11:05	2	ENE	09/01/2014	14:20	2	S

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date	Time	Wind Speed (mph)	Wind Direction	Date	Time	Wind Speed (mph)	Wind Direction
09/01/2014	14:25	2	S	09/01/2014	17:40	3	ESE
09/01/2014	14:30	3	SSE	09/01/2014	17:45	3	ESE
09/01/2014	14:35	1	SE	09/01/2014	17:50	2	ESE
09/01/2014	14:40	2	ESE	09/01/2014	17:55	2	ESE
09/01/2014	14:45	2	SE	09/01/2014	18:00	2	SE
09/01/2014	14:50	2	ESE	09/01/2014	18:05	3	ESE
09/01/2014	14:55	2	SSE	09/01/2014	18:10	5	ESE
09/01/2014	15:00	3	E	09/01/2014	18:15	4	E
09/01/2014	15:05	2	E	09/01/2014	18:20	3	SE
09/01/2014	15:10	2	E	09/01/2014	18:25	2	SE
09/01/2014	15:15	2	NE	09/01/2014	18:30	3	ESE
09/01/2014	15:20	4	E	09/01/2014	18:35	4	ESE
09/01/2014	15:25	4	E	09/01/2014	18:40	3	SE
09/01/2014	15:30	4	E	09/01/2014	18:45	4	ESE
09/01/2014	15:35	4	E	09/01/2014	18:50	4	E
09/01/2014	15:40	3	E	09/01/2014	18:55	6	E
09/01/2014	15:45	3	E	09/01/2014	19:00	4	SE
09/01/2014	15:50	2	ENE	09/01/2014	19:05	4	SE
09/01/2014	15:55	2	E	09/01/2014	19:10	4	SE
09/01/2014	16:00	2	E	09/01/2014	19:15	4	SE
09/01/2014	16:05	3	E	09/01/2014	19:20	4	ESE
09/01/2014	16:10	4	E	09/01/2014	19:25	3	SE
09/01/2014	16:15	3	E	09/01/2014	19:30	4	ESE
09/01/2014	16:20	2	E	09/01/2014	19:35	4	ESE
09/01/2014	16:25	3	E	09/01/2014	19:40	5	SE
09/01/2014	16:30	3	E	09/01/2014	19:45	3	SE
09/01/2014	16:35	3	ENE	09/01/2014	19:50	4	SE
09/01/2014	16:40	4	E	09/01/2014	19:55	4	SE
09/01/2014	16:45	4	E	09/01/2014	20:00	4	SSE
09/01/2014	16:50	5	E	09/01/2014	20:05	5	SE
09/01/2014	16:55	3	E	09/01/2014	20:10	5	SSE
09/01/2014	17:00	3	ESE	09/01/2014	20:15	5	SE
09/01/2014	17:05	4	E	09/01/2014	20:20	4	SSE
09/01/2014	17:10	3	ESE	09/01/2014	20:25	6	SE
09/01/2014	17:15	3	ESE	09/01/2014	20:30	5	SE
09/01/2014	17:20	3	SSE	09/01/2014	20:35	4	SE
09/01/2014	17:25	3	ESE	09/01/2014	20:40	5	SE
09/01/2014	17:30	2	ESE	09/01/2014	20:45	4	SE
09/01/2014	17:35	3	SSE	09/01/2014	20:50	5	SE

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date	Time	Wind Speed (mph)	Wind Direction	Date	Time	Wind Speed (mph)	Wind Direction
09/01/2014	20:55	5	SE	10/01/2014	00:10	3	SSE
09/01/2014	21:00	4	SSE	10/01/2014	00:15	4	SSE
09/01/2014	21:05	5	SSE	10/01/2014	00:20	5	SSE
09/01/2014	21:10	3	SE	10/01/2014	00:25	4	SE
09/01/2014	21:15	3	SSE	10/01/2014	00:30	4	SSE
09/01/2014	21:20	5	SSE	10/01/2014	00:35	6	SSE
09/01/2014	21:25	5	SSE	10/01/2014	00:40	3	SE
09/01/2014	21:30	5	SSE	10/01/2014	00:45	3	SE
09/01/2014	21:35	7	SSE	10/01/2014	00:50	5	SE
09/01/2014	21:40	7	SSE	10/01/2014	00:55	6	SE
09/01/2014	21:45	10	SE	10/01/2014	01:00	5	SE
09/01/2014	21:50	9	SSE	10/01/2014	01:05	4	SE
09/01/2014	21:55	8	SE	10/01/2014	01:10	8	SSE
09/01/2014	22:00	6	SE	10/01/2014	01:15	5	SE
09/01/2014	22:05	8	SE	10/01/2014	01:20	4	SSE
09/01/2014	22:10	6	SE	10/01/2014	01:25	6	SSE
09/01/2014	22:15	7	SE	10/01/2014	01:30	5	SSE
09/01/2014	22:20	9	SE	10/01/2014	01:35	7	SSE
09/01/2014	22:25	8	ESE	10/01/2014	01:40	6	SSE
09/01/2014	22:30	6	SSE	10/01/2014	01:45	8	SSE
09/01/2014	22:35	5	SE	10/01/2014	01:50	9	SSE
09/01/2014	22:40	5	SE	10/01/2014	01:55	7	SSE
09/01/2014	22:45	4	SE	10/01/2014	02:00	6	SSE
09/01/2014	22:50	7	SSE	10/01/2014	02:05	8	SSE
09/01/2014	22:55	5	SE	10/01/2014	02:10	6	SSE
09/01/2014	23:00	8	SSE	10/01/2014	02:15	6	SSE
09/01/2014	23:05	9	SSE	10/01/2014	02:20	7	SSE
09/01/2014	23:10	9	SSE	10/01/2014	02:25	7	SSE
09/01/2014	23:15	11	SSE	10/01/2014	02:30	6	SSE
09/01/2014	23:20	6	SE	10/01/2014	02:35	4	SSE
09/01/2014	23:25	4	SE	10/01/2014	02:40	4	SSE
09/01/2014	23:30	9	SE	10/01/2014	02:45	5	SSE
09/01/2014	23:35	6	SE	10/01/2014	02:50	5	SSE
09/01/2014	23:40	8	SE	10/01/2014	02:55	4	SSE
09/01/2014	23:45	7	SE	10/01/2014	03:00	6	SSE
09/01/2014	23:50	6	SSE	10/01/2014	03:05	4	SSE
09/01/2014	23:55	5	SSE	10/01/2014	03:10	5	SSE
10/01/2014	00:00	6	SSE	10/01/2014	03:15	5	SSE
10/01/2014	00:05	6	SSE	10/01/2014	03:20	4	SSE
				10/01/2014	03:25	4	SSE
				10/01/2014	03:30	5	SE
				10/01/2014	03:35	5	SSE
				10/01/2014	03:40	6	SSE

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date	Time	Wind Speed (mph)	Wind Direction	Date	Time	Wind Speed (mph)	Wind Direction
10/01/2014	03:45	5	SSE	10/01/2014	07:20	9	SSE
10/01/2014	03:50	5	SSE	10/01/2014	07:25	8	SSE
10/01/2014	03:55	5	SSE	10/01/2014	07:30	8	SSE
10/01/2014	04:00	7	SSE	10/01/2014	07:35	8	SSE
10/01/2014	04:05	7	SSE	10/01/2014	07:40	6	SSE
10/01/2014	04:10	6	SSE	10/01/2014	07:45	7	SSE
10/01/2014	04:15	5	SSE	10/01/2014	07:50	8	SSE
10/01/2014	04:20	4	SSE	10/01/2014	07:55	8	SSE
10/01/2014	04:25	5	SSE	10/01/2014	08:00	9	SSE
10/01/2014	04:30	6	SSE	10/01/2014	08:05	8	SSE
10/01/2014	04:35	6	SSE	10/01/2014	08:10	8	SSE
10/01/2014	04:40	5	SSE	10/01/2014	08:15	8	SSE
10/01/2014	04:45	6	SSE	10/01/2014	08:20	7	SSE
10/01/2014	04:50	7	SE	10/01/2014	08:25	7	SSE
10/01/2014	04:55	6	SSE	10/01/2014	08:30	7	SSE
10/01/2014	05:00	7	SSE	10/01/2014	08:35	8	SSE
10/01/2014	05:05	6	SSE	10/01/2014	08:40	9	SSE
10/01/2014	05:10	6	SSE	10/01/2014	08:45	8	SSE
10/01/2014	05:15	7	SSE	10/01/2014	08:50	9	SSE
10/01/2014	05:20	7	SSE	10/01/2014	08:55	6	SSE
10/01/2014	05:25	7	SSE	10/01/2014	09:00	7	SSE
10/01/2014	05:30	7	SSE	10/01/2014	09:05	8	SSE
10/01/2014	05:35	9	SE	10/01/2014	09:10	9	SSE
10/01/2014	05:40	6	SSE	10/01/2014	09:15	9	SSE
10/01/2014	05:45	6	SSE	10/01/2014	09:20	9	SSE
10/01/2014	05:50	7	SSE	10/01/2014	09:25	6	SSE
10/01/2014	05:55	7	SSE	10/01/2014	09:30	8	SSE
10/01/2014	06:00	8	SSE	10/01/2014	09:35	7	SSE
10/01/2014	06:05	8	SE	10/01/2014	09:40	7	SSE
10/01/2014	06:10	8	SSE	10/01/2014	09:45	10	SSE
10/01/2014	06:15	7	SSE	10/01/2014	09:50	7	SSE
10/01/2014	06:20	7	SSE	10/01/2014	09:55	8	SSE
10/01/2014	06:25	9	SSE	10/01/2014	10:00	8	SSE
10/01/2014	06:30	7	SSE	10/01/2014	10:05	10	SSE
10/01/2014	06:35	7	SE	10/01/2014	10:10	10	SSE
10/01/2014	06:40	9	SSE	10/01/2014	10:15	10	SSE
10/01/2014	06:45	9	SE	10/01/2014	10:20	7	SSE
10/01/2014	06:50	8	SSE	10/01/2014	10:25	7	SSE
10/01/2014	06:55	9	SSE	10/01/2014	10:30	8	SSE
10/01/2014	07:00	9	SSE	10/01/2014	10:35	8	SSE
10/01/2014	07:05	8	SSE	10/01/2014	10:40	7	SE
10/01/2014	07:10	8	SSE	10/01/2014	10:45	8	SSE
10/01/2014	07:15	9	SSE	10/01/2014	10:50	6	SSE

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date	Time	Wind Speed (mph)	Wind Direction	Date	Time	Wind Speed (mph)	Wind Direction
10/01/2014	10:55	4	SSE	10/01/2014	14:30	8	SSE
10/01/2014	11:00	8	SSE	10/01/2014	14:35	5	SE
10/01/2014	11:05	6	SSE	10/01/2014	14:40	4	SE
10/01/2014	11:10	7	SSE	10/01/2014	14:45	3	SSE
10/01/2014	11:15	6	SSE	10/01/2014	14:50	2	SE
10/01/2014	11:20	5	SSE	10/01/2014	14:55	5	SSE
10/01/2014	11:25	5	SE	10/01/2014	15:00	3	SSE
10/01/2014	11:30	5	SSE	10/01/2014	15:05	4	SSE
10/01/2014	11:35	5	SSE	10/01/2014	15:10	4	SE
10/01/2014	11:40	5	SE	10/01/2014	15:15	3	SE
10/01/2014	11:45	4	SE	10/01/2014	15:20	3	SSE
10/01/2014	11:50	5	SSE	10/01/2014	15:25	3	SE
10/01/2014	11:55	5	SSE	10/01/2014	15:30	3	SSE
10/01/2014	12:00	7	SSE	10/01/2014	15:35	3	SSE
10/01/2014	12:05	8	SSE	10/01/2014	15:40	3	SSE
10/01/2014	12:10	5	SSE	10/01/2014	15:45	3	SSE
10/01/2014	12:15	5	SW	10/01/2014	15:50	5	ESE
10/01/2014	12:20	7	SSE	10/01/2014	15:55	4	SSE
10/01/2014	12:25	6	SSE	10/01/2014	16:00	3	S
10/01/2014	12:30	6	SSE	10/01/2014	16:05	3	SSE
10/01/2014	12:35	5	SSE	10/01/2014	16:10	5	SSE
10/01/2014	12:40	6	SE	10/01/2014	16:15	3	WSW
10/01/2014	12:45	5	E	10/01/2014	16:20	4	SSE
10/01/2014	12:50	5	SE	10/01/2014	16:25	4	SSE
10/01/2014	12:55	5	SSE	10/01/2014	16:30	6	SSE
10/01/2014	13:00	5	S	10/01/2014	16:35	4	SSE
10/01/2014	13:05	6	SE	10/01/2014	16:40	6	SSE
10/01/2014	13:10	7	SSE	10/01/2014	16:45	8	SE
10/01/2014	13:15	6	SE	10/01/2014	16:50	10	SE
10/01/2014	13:20	5	SSE	10/01/2014	16:55	9	SSE
10/01/2014	13:25	8	S	10/01/2014	17:00	7	SE
10/01/2014	13:30	7	SSE	10/01/2014	17:05	6	SE
10/01/2014	13:35	7	SSE	10/01/2014	17:10	6	SSE
10/01/2014	13:40	6	SSE	10/01/2014	17:15	6	E
10/01/2014	13:45	4	S	10/01/2014	17:20	6	SE
10/01/2014	13:50	7	SSE	10/01/2014	17:25	7	SE
10/01/2014	13:55	4	SE	10/01/2014	17:30	6	SSE
10/01/2014	14:00	7	SE	10/01/2014	17:35	2	SSE
10/01/2014	14:05	6	SSE	10/01/2014	17:40	7	SSE
10/01/2014	14:10	6	SE	10/01/2014	17:45	5	E
10/01/2014	14:15	6	SSE	10/01/2014	17:50	6	E
10/01/2014	14:20	7	SSE	10/01/2014	17:55	6	ESE
10/01/2014	14:25	6	SSE	10/01/2014	18:00	5	E

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date	Time	Wind Speed (mph)	Wind Direction	Date	Time	Wind Speed (mph)	Wind Direction
10/01/2014	18:05	5	ESE	10/01/2014	21:35	3	SSE
10/01/2014	18:10	3	E	10/01/2014	21:40	8	SSE
10/01/2014	18:15	5	ESE	10/01/2014	21:45	9	SE
10/01/2014	18:20	5	SE	10/01/2014	21:50	9	SSE
10/01/2014	18:25	6	SE	10/01/2014	21:55	9	SSE
10/01/2014	18:30	5	ESE	10/01/2014	22:00	8	SSE
10/01/2014	18:35	3	SE	10/01/2014	22:05	11	SSE
10/01/2014	18:40	3	SE	10/01/2014	22:10	10	SE
10/01/2014	18:45	4	SSE	10/01/2014	22:15	10	SSE
10/01/2014	18:50	6	SSE	10/01/2014	22:20	10	SSE
10/01/2014	18:55	7	SE	10/01/2014	22:25	11	SSE
10/01/2014	19:00	4	SE	10/01/2014	22:30	9	SSE
10/01/2014	19:05	3	SSE	10/01/2014	22:35	7	SE
10/01/2014	19:10	4	SE	10/01/2014	22:40	4	ENE
10/01/2014	19:15	5	SE	10/01/2014	22:45	2	E
10/01/2014	19:20	6	SE	10/01/2014	22:50	4	NNE
10/01/2014	19:25	4	ESE	10/01/2014	22:55	4	ESE
10/01/2014	19:30	4	SE	10/01/2014	23:00	4	SE
10/01/2014	19:35	4	SE	10/01/2014	23:05	6	SSE
10/01/2014	19:40	3	SSE	10/01/2014	23:10	11	SE
10/01/2014	19:45	6	SSE	10/01/2014	23:15	9	SSE
10/01/2014	19:50	6	SSE	10/01/2014	23:20	8	SSE
10/01/2014	19:55	4	SE	10/01/2014	23:25	6	SSE
10/01/2014	20:00	2	ESE	10/01/2014	23:30	6	SSE
10/01/2014	20:05	1	WNW	10/01/2014	23:35	7	SE
10/01/2014	20:10	5	SSE	10/01/2014	23:40	10	SSE
10/01/2014	20:15	7	SE	10/01/2014	23:45	10	SSE
10/01/2014	20:20	5	S	10/01/2014	23:50	9	SSE
10/01/2014	20:25	8	SE	10/01/2014	23:55	10	SSE
10/01/2014	20:30	5	SE	11/01/2014	00:00	11	SSE
10/01/2014	20:35	4	SE	11/01/2014	00:05	11	SSE
10/01/2014	20:40	4	SE	11/01/2014	00:10	10	SSE
10/01/2014	20:45	5	SE	11/01/2014	00:15	9	SSE
10/01/2014	20:50	4	ESE	11/01/2014	00:20	10	SSE
10/01/2014	20:55	2	E	11/01/2014	00:25	11	SE
10/01/2014	21:00	2	ESE	11/01/2014	00:30	9	SE
10/01/2014	21:05	3	SE	11/01/2014	00:35	7	SE
10/01/2014	21:10	2	E	11/01/2014	00:40	8	SSE
10/01/2014	21:15	4	ESE	11/01/2014	00:45	9	SE
10/01/2014	21:20	1	S	11/01/2014	00:50	8	SSE
10/01/2014	21:25	1	SSE				
10/01/2014	21:30	3	SE				

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date	Time	Wind Speed (mph)	Wind Direction	Date	Time	Wind Speed (mph)	Wind Direction
11/01/2014	00:55	12	SSE	11/01/2014	04:30	4	SE
11/01/2014	01:00	10	SSE	11/01/2014	04:35	5	SE
11/01/2014	01:05	12	SSE	11/01/2014	04:40	5	SSE
11/01/2014	01:10	10	SSE	11/01/2014	04:45	5	SSE
11/01/2014	01:15	10	SSE	11/01/2014	04:50	6	SSE
11/01/2014	01:20	10	SSE	11/01/2014	04:55	7	SSE
11/01/2014	01:25	10	SSE	11/01/2014	05:00	6	SSE
11/01/2014	01:30	9	SSE	11/01/2014	05:05	4	SSE
11/01/2014	01:35	9	SSE	11/01/2014	05:10	6	SE
11/01/2014	01:40	9	SSE	11/01/2014	05:15	6	SE
11/01/2014	01:45	13	SSE	11/01/2014	05:20	6	SSE
11/01/2014	01:50	11	SSE	11/01/2014	05:25	7	SSE
11/01/2014	01:55	9	SSE	11/01/2014	05:30	4	SSE
11/01/2014	02:00	9	SSE	11/01/2014	05:35	4	SSE
11/01/2014	02:05	8	SSE	11/01/2014	05:40	4	SE
11/01/2014	02:10	8	SSE	11/01/2014	05:45	3	SSE
11/01/2014	02:15	10	SSE	11/01/2014	05:50	2	SE
11/01/2014	02:20	8	SSE	11/01/2014	05:55	2	SE
11/01/2014	02:25	3	SSE	11/01/2014	06:00	1	SE
11/01/2014	02:30	6	SE	11/01/2014	06:05	1	SSE
11/01/2014	02:35	6	SSE	11/01/2014	06:10	2	SE
11/01/2014	02:40	8	SSE	11/01/2014	06:15	3	SE
11/01/2014	02:45	6	SSE	11/01/2014	06:20	2	SSE
11/01/2014	02:50	4	SE	11/01/2014	06:25	2	SE
11/01/2014	02:55	5	SSE	11/01/2014	06:30	1	S
11/01/2014	03:00	5	SE	11/01/2014	06:35	3	SSE
11/01/2014	03:05	5	SE	11/01/2014	06:40	2	SSE
11/01/2014	03:10	4	SSE	11/01/2014	06:45	2	SSE
11/01/2014	03:15	4	SE	11/01/2014	06:50	3	SSE
11/01/2014	03:20	3	SSE	11/01/2014	06:55	2	SSE
11/01/2014	03:25	5	SSE	11/01/2014	07:00	3	SSE
11/01/2014	03:30	5	SSE	11/01/2014	07:05	2	S
11/01/2014	03:35	5	SSE	11/01/2014	07:10	2	SSE
11/01/2014	03:40	5	SSE	11/01/2014	07:15	3	SSE
11/01/2014	03:45	3	SE	11/01/2014	07:20	1	ESE
11/01/2014	03:50	4	SE	11/01/2014	07:25	1	S
11/01/2014	03:55	2	SSE	11/01/2014	07:30	2	SE
11/01/2014	04:00	4	SSE	11/01/2014	07:35	3	SSE
11/01/2014	04:05	3	SE	11/01/2014	07:40	1	SSW
11/01/2014	04:10	2	ESE	11/01/2014	07:45	1	ESE
11/01/2014	04:15	2	SE	11/01/2014	07:50	1	SSE
11/01/2014	04:20	5	SE	11/01/2014	07:55	3	SSE
11/01/2014	04:25	4	SE	11/01/2014	08:00	4	SSE

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date	Time	Wind Speed (mph)	Wind Direction	Date	Time	Wind Speed (mph)	Wind Direction
11/01/2014	08:05	4	SE	11/01/2014	11:40	9	SE
11/01/2014	08:10	6	SE	11/01/2014	11:45	10	ESE
11/01/2014	08:15	7	ESE	11/01/2014	11:50	8	SE
11/01/2014	08:20	6	SE	11/01/2014	11:55	8	SE
11/01/2014	08:25	5	ESE	11/01/2014	12:00	10	ESE
11/01/2014	08:30	6	ESE	11/01/2014	12:05	8	SE
11/01/2014	08:35	5	E	11/01/2014	12:10	7	SE
11/01/2014	08:40	6	ESE	11/01/2014	12:15	9	SE
11/01/2014	08:45	6	E	11/01/2014	12:20	10	SE
11/01/2014	08:50	5	ESE	11/01/2014	12:25	8	ESE
11/01/2014	08:55	6	ESE	11/01/2014	12:30	7	SE
11/01/2014	09:00	5	ESE	11/01/2014	12:35	6	SSE
11/01/2014	09:05	6	ESE	11/01/2014	12:40	7	SE
11/01/2014	09:10	7	ESE	11/01/2014	12:45	6	SE
11/01/2014	09:15	7	ESE	11/01/2014	12:50	5	SSE
11/01/2014	09:20	9	ESE	11/01/2014	12:55	5	SE
11/01/2014	09:25	8	SE	11/01/2014	13:00	6	SSE
11/01/2014	09:30	7	SE	11/01/2014	13:05	6	SE
11/01/2014	09:35	8	SE	11/01/2014	13:10	6	SE
11/01/2014	09:40	8	SE	11/01/2014	13:15	6	SE
11/01/2014	09:45	10	SE	11/01/2014	13:20	7	SE
11/01/2014	09:50	11	SE	11/01/2014	13:25	5	SE
11/01/2014	09:55	11	SE	11/01/2014	13:30	4	ESE
11/01/2014	10:00	11	SE	11/01/2014	13:35	3	ESE
11/01/2014	10:05	9	SE	11/01/2014	13:40	3	E
11/01/2014	10:10	9	SE	11/01/2014	13:45	4	E
11/01/2014	10:15	10	SSE	11/01/2014	13:50	3	E
11/01/2014	10:20	7	SE	11/01/2014	13:55	2	NNW
11/01/2014	10:25	7	ESE	11/01/2014	14:00	5	NNW
11/01/2014	10:30	3	ENE	11/01/2014	14:05	7	NNW
11/01/2014	10:35	5	E	11/01/2014	14:10	4	NNW
11/01/2014	10:40	5	E	11/01/2014	14:15	1	NNE
11/01/2014	10:45	4	E	11/01/2014	14:20	5	NNW
11/01/2014	10:50	4	SSE	11/01/2014	14:25	3	NE
11/01/2014	10:55	4	SSE	11/01/2014	14:30	3	N
11/01/2014	11:00	7	SE	11/01/2014	14:35	4	NNW
11/01/2014	11:05	7	SE	11/01/2014	14:40	3	NNW
11/01/2014	11:10	7	SE	11/01/2014	14:45	3	N
11/01/2014	11:15	7	SE	11/01/2014	14:50	2	ENE
11/01/2014	11:20	8	SE	11/01/2014	14:55	5	NNW
11/01/2014	11:25	8	SE	11/01/2014	15:00	6	NNW
11/01/2014	11:30	8	SE	11/01/2014	15:05	3	NNW
11/01/2014	11:35	8	SE	11/01/2014	15:10	4	NNW

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date	Time	Wind Speed (mph)	Wind Direction	Date	Time	Wind Speed (mph)	Wind Direction
11/01/2014	15:15	5	NW	11/01/2014	18:50	3	ESE
11/01/2014	15:20	4	NW	11/01/2014	18:55	3	SSE
11/01/2014	15:25	7	NW	11/01/2014	19:00	3	S
11/01/2014	15:30	5	NW	11/01/2014	19:05	1	W
11/01/2014	15:35	6	NW	11/01/2014	19:10	1	S
11/01/2014	15:40	4	NNW	11/01/2014	19:15	2	S
11/01/2014	15:45	1	N	11/01/2014	19:20	0	S
11/01/2014	15:50	2	WNW	11/01/2014	19:25	0	---
11/01/2014	15:55	3	WNW	11/01/2014	19:30	0	S
11/01/2014	16:00	1	W	11/01/2014	19:35	2	S
11/01/2014	16:05	0	---	11/01/2014	19:40	3	SSE
11/01/2014	16:10	0	---	11/01/2014	19:45	6	SSE
11/01/2014	16:15	0	---	11/01/2014	19:50	4	ESE
11/01/2014	16:20	1	NW	11/01/2014	19:55	4	SE
11/01/2014	16:25	3	WNW	11/01/2014	20:00	3	SE
11/01/2014	16:30	4	NNW	11/01/2014	20:05	1	SSE
11/01/2014	16:35	5	NNW	11/01/2014	20:10	5	SSE
11/01/2014	16:40	5	NW	11/01/2014	20:15	6	SSE
11/01/2014	16:45	4	NW	11/01/2014	20:20	6	SSE
11/01/2014	16:50	3	NW	11/01/2014	20:25	7	SSE
11/01/2014	16:55	3	NW	11/01/2014	20:30	6	SSE
11/01/2014	17:00	4	NNW	11/01/2014	20:35	6	SSE
11/01/2014	17:05	4	NW	11/01/2014	20:40	5	SSE
11/01/2014	17:10	3	WNW	11/01/2014	20:45	3	SSE
11/01/2014	17:15	2	NW	11/01/2014	20:50	4	SSE
11/01/2014	17:20	0	NW	11/01/2014	20:55	4	SSE
11/01/2014	17:25	0	---	11/01/2014	21:00	3	SSE
11/01/2014	17:30	1	SSE	11/01/2014	21:05	1	SE
11/01/2014	17:35	2	SE	11/01/2014	21:10	2	SE
11/01/2014	17:40	0	SSE	11/01/2014	21:15	3	SSE
11/01/2014	17:45	1	S	11/01/2014	21:20	2	ESE
11/01/2014	17:50	1	S	11/01/2014	21:25	4	SE
11/01/2014	17:55	1	S	11/01/2014	21:30	3	SSE
11/01/2014	18:00	0	---	11/01/2014	21:35	3	SE
11/01/2014	18:05	2	SSE	11/01/2014	21:40	1	SE
11/01/2014	18:10	3	SSE	11/01/2014	21:45	2	WNW
11/01/2014	18:15	3	ESE	11/01/2014	21:50	2	NW
11/01/2014	18:20	3	SE	11/01/2014	21:55	1	NNW
11/01/2014	18:25	3	SSE	11/01/2014	22:00	1	ESE
11/01/2014	18:30	3	SSE	11/01/2014	22:05	1	ENE
11/01/2014	18:35	5	SSE	11/01/2014	22:10	2	E
11/01/2014	18:40	5	SSE				
11/01/2014	18:45	4	SSE				

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date	Time	Wind Speed (mph)	Wind Direction	Date	Time	Wind Speed (mph)	Wind Direction
11/01/2014	22:15	1	SE	12/01/2014	01:40	4	SSE
11/01/2014	22:20	1	ENE	12/01/2014	01:45	4	SSE
11/01/2014	22:25	2	ESE	12/01/2014	01:50	4	SE
11/01/2014	22:30	1	SSE	12/01/2014	01:55	4	SE
11/01/2014	22:35	3	SSE	12/01/2014	02:00	4	ESE
11/01/2014	22:40	5	SE	12/01/2014	02:05	4	ESE
11/01/2014	22:45	5	SE	12/01/2014	02:10	4	SE
11/01/2014	22:50	5	SSE	12/01/2014	02:15	3	SE
11/01/2014	22:55	1	SSE	12/01/2014	02:20	2	SSE
11/01/2014	23:00	0	WNW	12/01/2014	02:25	2	SSE
11/01/2014	23:05	4	NNW	12/01/2014	02:30	3	SE
11/01/2014	23:10	2	ESE	12/01/2014	02:35	2	SE
11/01/2014	23:15	2	E	12/01/2014	02:40	0	SE
11/01/2014	23:20	3	SE	12/01/2014	02:45	1	ENE
11/01/2014	23:25	4	SE	12/01/2014	02:50	1	E
11/01/2014	23:30	2	SE	12/01/2014	02:55	1	NE
11/01/2014	23:35	6	SE	12/01/2014	03:00	0	NE
11/01/2014	23:40	3	SSE	12/01/2014	03:05	0	---
11/01/2014	23:45	4	SE	12/01/2014	03:10	0	---
11/01/2014	23:50	1	SE	12/01/2014	03:15	0	---
11/01/2014	23:55	3	SE	12/01/2014	03:20	0	---
12/01/2014	00:00	2	N	12/01/2014	03:25	0	---
12/01/2014	00:05	2	N	12/01/2014	03:30	0	---
12/01/2014	00:10	2	SE	12/01/2014	03:35	0	---
12/01/2014	00:15	2	ESE	12/01/2014	03:40	0	---
12/01/2014	00:20	1	ESE	12/01/2014	03:45	0	---
12/01/2014	00:25	2	SE	12/01/2014	03:50	0	---
12/01/2014	00:30	3	SSE	12/01/2014	03:55	0	---
12/01/2014	00:35	3	SSE	12/01/2014	04:00	0	---
12/01/2014	00:40	6	SSE	12/01/2014	04:05	0	---
12/01/2014	00:45	5	SSE	12/01/2014	04:10	0	---
12/01/2014	00:50	5	SSE	12/01/2014	04:15	0	---
12/01/2014	00:55	3	SSE	12/01/2014	04:20	0	---
12/01/2014	01:00	1	SE	12/01/2014	04:25	0	---
12/01/2014	01:05	4	S	12/01/2014	04:30	0	---
12/01/2014	01:10	4	SSE	12/01/2014	04:35	0	---
12/01/2014	01:15	4	SSE	12/01/2014	04:40	0	---
12/01/2014	01:20	3	SE	12/01/2014	04:45	0	---
12/01/2014	01:25	4	SE	12/01/2014	04:50	0	---
12/01/2014	01:30	5	SSE	12/01/2014	04:55	0	---
12/01/2014	01:35	2	SE	12/01/2014	05:00	0	---
				12/01/2014	05:05	0	---
				12/01/2014	05:10	0	---

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date	Time	Wind Speed (mph)	Wind Direction	Date	Time	Wind Speed (mph)	Wind Direction
12/01/2014	05:15	0	---	12/01/2014	08:50	0	---
12/01/2014	05:20	0	---	12/01/2014	08:55	0	---
12/01/2014	05:25	0	---	12/01/2014	09:00	0	---
12/01/2014	05:30	0	---	12/01/2014	09:05	0	---
12/01/2014	05:35	0	---	12/01/2014	09:10	0	---
12/01/2014	05:40	0	---	12/01/2014	09:15	0	---
12/01/2014	05:45	0	---	12/01/2014	09:20	0	S
12/01/2014	05:50	0	---	12/01/2014	09:25	1	SSW
12/01/2014	05:55	0	---	12/01/2014	09:30	0	---
12/01/2014	06:00	0	---	12/01/2014	09:35	0	---
12/01/2014	06:05	0	---	12/01/2014	09:40	1	ESE
12/01/2014	06:10	0	---	12/01/2014	09:45	2	SE
12/01/2014	06:15	0	---	12/01/2014	09:50	1	SSE
12/01/2014	06:20	0	---	12/01/2014	09:55	2	SE
12/01/2014	06:25	0	---	12/01/2014	10:00	2	E
12/01/2014	06:30	0	---	12/01/2014	10:05	1	SSE
12/01/2014	06:35	0	---	12/01/2014	10:10	1	ESE
12/01/2014	06:40	0	---	12/01/2014	10:15	2	E
12/01/2014	06:45	0	---	12/01/2014	10:20	2	ESE
12/01/2014	06:50	0	---	12/01/2014	10:25	1	ESE
12/01/2014	06:55	0	---	12/01/2014	10:30	2	SSE
12/01/2014	07:00	0	---	12/01/2014	10:35	2	ESE
12/01/2014	07:05	0	---	12/01/2014	10:40	1	SSE
12/01/2014	07:10	0	---	12/01/2014	10:45	1	ENE
12/01/2014	07:15	0	---	12/01/2014	10:50	1	ENE
12/01/2014	07:20	0	---	12/01/2014	10:55	0	---
12/01/2014	07:25	0	---	12/01/2014	11:00	0	---
12/01/2014	07:30	0	---	12/01/2014	11:05	0	---
12/01/2014	07:35	0	---	12/01/2014	11:10	0	---
12/01/2014	07:40	0	---	12/01/2014	11:15	0	---
12/01/2014	07:45	0	---	12/01/2014	11:20	0	NNE
12/01/2014	07:50	0	---	12/01/2014	11:25	1	NE
12/01/2014	07:55	0	---	12/01/2014	11:30	1	NE
12/01/2014	08:00	1	W	12/01/2014	11:35	0	NE
12/01/2014	08:05	2	WNW	12/01/2014	11:40	0	NE
12/01/2014	08:10	2	WNW	12/01/2014	11:45	1	NW
12/01/2014	08:15	1	WNW	12/01/2014	11:50	0	ESE
12/01/2014	08:20	0	WNW	12/01/2014	11:55	1	NE
12/01/2014	08:25	0	---	12/01/2014	12:00	0	NE
12/01/2014	08:30	0	NW	12/01/2014	12:05	0	NE
12/01/2014	08:35	0	---	12/01/2014	12:10	1	NNW
12/01/2014	08:40	0	---	12/01/2014	12:15	2	NNW
12/01/2014	08:45	0	NW	12/01/2014	12:20	3	NNE

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date	Time	Wind Speed (mph)	Wind Direction	Date	Time	Wind Speed (mph)	Wind Direction
12/01/2014	12:25	4	NNW	12/01/2014	16:00	8	N
12/01/2014	12:30	5	NNW	12/01/2014	16:05	9	N
12/01/2014	12:35	4	N	12/01/2014	16:10	7	N
12/01/2014	12:40	4	N	12/01/2014	16:15	8	N
12/01/2014	12:45	3	NNW	12/01/2014	16:20	8	N
12/01/2014	12:50	5	NNE	12/01/2014	16:25	7	N
12/01/2014	12:55	5	N	12/01/2014	16:30	9	N
12/01/2014	13:00	6	NNE	12/01/2014	16:35	6	N
12/01/2014	13:05	5	NNE	12/01/2014	16:40	7	N
12/01/2014	13:10	5	N	12/01/2014	16:45	8	N
12/01/2014	13:15	5	N	12/01/2014	16:50	7	N
12/01/2014	13:20	8	N	12/01/2014	16:55	7	N
12/01/2014	13:25	8	N	12/01/2014	17:00	7	N
12/01/2014	13:30	6	N	12/01/2014	17:05	7	NNE
12/01/2014	13:35	7	N	12/01/2014	17:10	5	NNE
12/01/2014	13:40	7	NNE	12/01/2014	17:15	6	N
12/01/2014	13:45	6	NNE	12/01/2014	17:20	5	N
12/01/2014	13:50	7	N	12/01/2014	17:25	6	NNE
12/01/2014	13:55	5	NNE	12/01/2014	17:30	5	NNE
12/01/2014	14:00	7	NNE	12/01/2014	17:35	5	NNE
12/01/2014	14:05	6	N	12/01/2014	17:40	6	NNE
12/01/2014	14:10	7	N	12/01/2014	17:45	5	NNE
12/01/2014	14:15	7	N	12/01/2014	17:50	5	NNE
12/01/2014	14:20	7	NNE	12/01/2014	17:55	4	NNE
12/01/2014	14:25	9	NNE	12/01/2014	18:00	3	N
12/01/2014	14:30	8	NNE	12/01/2014	18:05	3	NE
12/01/2014	14:35	8	NNE	12/01/2014	18:10	3	NE
12/01/2014	14:40	8	NNE	12/01/2014	18:15	3	NNE
12/01/2014	14:45	10	NNE	12/01/2014	18:20	2	NNE
12/01/2014	14:50	8	N	12/01/2014	18:25	2	NNE
12/01/2014	14:55	9	N	12/01/2014	18:30	3	NE
12/01/2014	15:00	9	NNE	12/01/2014	18:35	3	ENE
12/01/2014	15:05	8	N	12/01/2014	18:40	2	ENE
12/01/2014	15:10	8	N	12/01/2014	18:45	4	ENE
12/01/2014	15:15	10	N	12/01/2014	18:50	1	E
12/01/2014	15:20	10	N	12/01/2014	18:55	1	ESE
12/01/2014	15:25	10	N	12/01/2014	19:00	3	ESE
12/01/2014	15:30	8	N	12/01/2014	19:05	2	ESE
12/01/2014	15:35	8	N	12/01/2014	19:10	3	E
12/01/2014	15:40	9	N	12/01/2014	19:15	5	ENE
12/01/2014	15:45	8	N	12/01/2014	19:20	3	E
12/01/2014	15:50	8	N	12/01/2014	19:25	3	ENE
12/01/2014	15:55	10	N	12/01/2014	19:30	2	ENE

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date	Time	Wind Speed (mph)	Wind Direction	Date	Time	Wind Speed (mph)	Wind Direction
12/01/2014	19:35	4	ENE	12/01/2014	23:10	3	E
12/01/2014	19:40	5	E	12/01/2014	23:15	3	E
12/01/2014	19:45	3	ESE	12/01/2014	23:20	3	ESE
12/01/2014	19:50	4	ESE	12/01/2014	23:25	3	ESE
12/01/2014	19:55	3	ESE	12/01/2014	23:30	1	ESE
12/01/2014	20:00	4	ESE	12/01/2014	23:35	0	SE
12/01/2014	20:05	4	ESE	12/01/2014	23:40	2	E
12/01/2014	20:10	4	ESE	12/01/2014	23:45	2	ESE
12/01/2014	20:15	4	SE	12/01/2014	23:50	2	E
12/01/2014	20:20	4	SE	12/01/2014	23:55	2	E
12/01/2014	20:25	5	SE	13/01/2014	00:00	4	E
12/01/2014	20:30	5	SE	13/01/2014	00:05	3	ESE
12/01/2014	20:35	5	SE	13/01/2014	00:10	0	---
12/01/2014	20:40	5	SE	13/01/2014	00:15	3	E
12/01/2014	20:45	5	SE	13/01/2014	00:20	4	ESE
12/01/2014	20:50	6	SSE	13/01/2014	00:25	2	ESE
12/01/2014	20:55	6	SSE	13/01/2014	00:30	3	ENE
12/01/2014	21:00	5	SE	13/01/2014	00:35	3	ENE
12/01/2014	21:05	3	ESE	13/01/2014	00:40	3	NE
12/01/2014	21:10	4	SE	13/01/2014	00:45	4	NE
12/01/2014	21:15	4	SE	13/01/2014	00:50	3	NNE
12/01/2014	21:20	5	E	13/01/2014	00:55	5	NE
12/01/2014	21:25	4	SE	13/01/2014	01:00	5	NE
12/01/2014	21:30	4	ESE	13/01/2014	01:05	4	NE
12/01/2014	21:35	4	SE	13/01/2014	01:10	2	NNE
12/01/2014	21:40	5	SE	13/01/2014	01:15	3	NNE
12/01/2014	21:45	5	SE	13/01/2014	01:20	2	NNE
12/01/2014	21:50	5	SE	13/01/2014	01:25	3	ENE
12/01/2014	21:55	6	SE	13/01/2014	01:30	3	NE
12/01/2014	22:00	4	SE	13/01/2014	01:35	1	NW
12/01/2014	22:05	3	SSE	13/01/2014	01:40	1	WNW
12/01/2014	22:10	2	SSE	13/01/2014	01:45	7	ENE
12/01/2014	22:15	3	SSE	13/01/2014	01:50	7	ENE
12/01/2014	22:20	4	ESE	13/01/2014	01:55	8	E
12/01/2014	22:25	4	ESE	13/01/2014	02:00	7	ENE
12/01/2014	22:30	5	ESE	13/01/2014	02:05	6	E
12/01/2014	22:35	4	SE	13/01/2014	02:10	5	E
12/01/2014	22:40	2	SE	13/01/2014	02:15	5	ENE
12/01/2014	22:45	2	SE	13/01/2014	02:20	5	ENE
12/01/2014	22:50	3	E	13/01/2014	02:25	7	ENE
12/01/2014	22:55	2	E	13/01/2014	02:30	5	ENE
12/01/2014	23:00	3	ENE	13/01/2014	02:35	6	ENE
12/01/2014	23:05	3	E	13/01/2014	02:40	6	ENE

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date	Time	Wind Speed (mph)	Wind Direction	Date	Time	Wind Speed (mph)	Wind Direction
13/01/2014	02:45	5	ENE	13/01/2014	06:20	2	ESE
13/01/2014	02:50	4	ENE	13/01/2014	06:25	3	ENE
13/01/2014	02:55	5	ENE	13/01/2014	06:30	2	ESE
13/01/2014	03:00	6	ENE	13/01/2014	06:35	3	ENE
13/01/2014	03:05	6	ENE	13/01/2014	06:40	3	ENE
13/01/2014	03:10	6	ENE	13/01/2014	06:45	2	NE
13/01/2014	03:15	5	NE	13/01/2014	06:50	4	NNE
13/01/2014	03:20	4	ENE	13/01/2014	06:55	3	E
13/01/2014	03:25	6	ENE	13/01/2014	07:00	3	ENE
13/01/2014	03:30	4	ENE	13/01/2014	07:05	4	ENE
13/01/2014	03:35	3	E	13/01/2014	07:10	4	E
13/01/2014	03:40	4	ENE	13/01/2014	07:15	1	E
13/01/2014	03:45	5	ENE	13/01/2014	07:20	3	NE
13/01/2014	03:50	2	NE	13/01/2014	07:25	3	NE
13/01/2014	03:55	4	NE	13/01/2014	07:30	3	ESE
13/01/2014	04:00	5	ENE	13/01/2014	07:35	1	NE
13/01/2014	04:05	7	NE	13/01/2014	07:40	3	NE
13/01/2014	04:10	4	ENE	13/01/2014	07:45	5	NE
13/01/2014	04:15	4	ENE	13/01/2014	07:50	5	NNE
13/01/2014	04:20	2	ENE	13/01/2014	07:55	4	NNE
13/01/2014	04:25	2	E	13/01/2014	08:00	3	NE
13/01/2014	04:30	0	ENE	13/01/2014	08:05	4	NE
13/01/2014	04:35	0	NNE	13/01/2014	08:10	5	NE
13/01/2014	04:40	1	NNE	13/01/2014	08:15	4	NNE
13/01/2014	04:45	0	NNE	13/01/2014	08:20	5	NE
13/01/2014	04:50	0	NNE	13/01/2014	08:25	6	ENE
13/01/2014	04:55	3	ENE	13/01/2014	08:30	4	NE
13/01/2014	05:00	5	ENE	13/01/2014	08:35	7	ENE
13/01/2014	05:05	3	NNW	13/01/2014	08:40	6	ENE
13/01/2014	05:10	3	NE	13/01/2014	08:45	5	ENE
13/01/2014	05:15	2	NE	13/01/2014	08:50	4	ENE
13/01/2014	05:20	1	NNE	13/01/2014	08:55	4	E
13/01/2014	05:25	1	N	13/01/2014	09:00	4	ENE
13/01/2014	05:30	3	NE	13/01/2014	09:05	3	ENE
13/01/2014	05:35	5	ENE	13/01/2014	09:10	5	NE
13/01/2014	05:40	4	NE	13/01/2014	09:15	4	NE
13/01/2014	05:45	5	NE	13/01/2014	09:20	5	NE
13/01/2014	05:50	5	NE	13/01/2014	09:25	5	NE
13/01/2014	05:55	3	NE	13/01/2014	09:30	4	NE
13/01/2014	06:00	3	NNE	13/01/2014	09:35	4	NNE
13/01/2014	06:05	4	NNE	13/01/2014	09:40	5	NE
13/01/2014	06:10	3	NE	13/01/2014	09:45	5	ENE
13/01/2014	06:15	3	ENE	13/01/2014	09:50	5	NNE

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date	Time	Wind Speed (mph)	Wind Direction	Date	Time	Wind Speed (mph)	Wind Direction
13/01/2014	09:55	3	NE	13/01/2014	13:30	5	NE
13/01/2014	10:00	5	NE	13/01/2014	13:35	4	NNE
13/01/2014	10:05	4	NE	13/01/2014	13:40	6	NE
13/01/2014	10:10	3	ENE	13/01/2014	13:45	5	NNE
13/01/2014	10:15	3	ENE	13/01/2014	13:50	5	NNE
13/01/2014	10:20	2	E	13/01/2014	13:55	7	NE
13/01/2014	10:25	3	NE	13/01/2014	14:00	6	NE
13/01/2014	10:30	3	NE	13/01/2014	14:05	4	ENE
13/01/2014	10:35	1	NNE	13/01/2014	14:10	7	ENE
13/01/2014	10:40	2	ENE	13/01/2014	14:15	5	NE
13/01/2014	10:45	3	ENE	13/01/2014	14:20	6	ENE
13/01/2014	10:50	3	N	13/01/2014	14:25	7	ENE
13/01/2014	10:55	3	NNE	13/01/2014	14:30	6	NNE
13/01/2014	11:00	4	NNE	13/01/2014	14:35	7	NNE
13/01/2014	11:05	4	NE	13/01/2014	14:40	7	NNE
13/01/2014	11:10	3	N	13/01/2014	14:45	5	NE
13/01/2014	11:15	4	NNE	13/01/2014	14:50	6	NE
13/01/2014	11:20	5	NE	13/01/2014	14:55	7	NE
13/01/2014	11:25	4	NE	13/01/2014	15:00	6	NE
13/01/2014	11:30	5	NNE	13/01/2014	15:05	5	NNE
13/01/2014	11:35	1	NNE	13/01/2014	15:10	5	NE
13/01/2014	11:40	1	N	13/01/2014	15:15	5	NNE
13/01/2014	11:45	3	NNE	13/01/2014	15:20	6	ENE
13/01/2014	11:50	3	NNE	13/01/2014	15:25	3	ENE
13/01/2014	11:55	4	NNE	13/01/2014	15:30	6	NE
13/01/2014	12:00	3	NNE	13/01/2014	15:35	5	NE
13/01/2014	12:05	4	NE	13/01/2014	15:40	3	NE
13/01/2014	12:10	5	NE	13/01/2014	15:45	3	ENE
13/01/2014	12:15	6	NE	13/01/2014	15:50	1	NE
13/01/2014	12:20	5	NE	13/01/2014	15:55	3	NE
13/01/2014	12:25	7	ENE	13/01/2014	16:00	4	NE
13/01/2014	12:30	5	N	13/01/2014	16:05	4	ENE
13/01/2014	12:35	4	N	13/01/2014	16:10	4	NE
13/01/2014	12:40	6	NE	13/01/2014	16:15	2	NE
13/01/2014	12:45	5	NNE	13/01/2014	16:20	3	ENE
13/01/2014	12:50	5	NE	13/01/2014	16:25	4	NE
13/01/2014	12:55	6	NE	13/01/2014	16:30	3	NE
13/01/2014	13:00	6	NE	13/01/2014	16:35	4	NE
13/01/2014	13:05	7	NNE	13/01/2014	16:40	3	NE
13/01/2014	13:10	6	NE	13/01/2014	16:45	3	NE
13/01/2014	13:15	4	NNE	13/01/2014	16:50	3	E
13/01/2014	13:20	6	NE	13/01/2014	16:55	2	E
13/01/2014	13:25	4	NE	13/01/2014	17:00	1	ENE

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date	Time	Wind Speed (mph)	Wind Direction	Date	Time	Wind Speed (mph)	Wind Direction
13/01/2014	17:05	3	E	13/01/2014	20:40	3	ESE
13/01/2014	17:10	4	NE	13/01/2014	20:45	5	E
13/01/2014	17:15	3	NNE	13/01/2014	20:50	4	E
13/01/2014	17:20	3	ENE	13/01/2014	20:55	4	SE
13/01/2014	17:25	4	NE	13/01/2014	21:00	4	SE
13/01/2014	17:30	3	NE	13/01/2014	21:05	5	SSE
13/01/2014	17:35	4	NE	13/01/2014	21:10	4	SSE
13/01/2014	17:40	4	NE	13/01/2014	21:15	3	SE
13/01/2014	17:45	4	NE	13/01/2014	21:20	3	SE
13/01/2014	17:50	4	NNE	13/01/2014	21:25	4	ENE
13/01/2014	17:55	3	NE	13/01/2014	21:30	3	ENE
13/01/2014	18:00	4	NE	13/01/2014	21:35	3	SE
13/01/2014	18:05	4	NE	13/01/2014	21:40	2	SSE
13/01/2014	18:10	6	NE	13/01/2014	21:45	2	SSE
13/01/2014	18:15	5	NE	13/01/2014	21:50	2	E
13/01/2014	18:20	5	NE	13/01/2014	21:55	0	S
13/01/2014	18:25	4	NE	13/01/2014	22:00	2	N
13/01/2014	18:30	4	E	13/01/2014	22:05	3	NW
13/01/2014	18:35	4	NE	13/01/2014	22:10	3	NW
13/01/2014	18:40	4	NE	13/01/2014	22:15	3	N
13/01/2014	18:45	5	NE	13/01/2014	22:20	5	NE
13/01/2014	18:50	3	ENE	13/01/2014	22:25	4	NE
13/01/2014	18:55	3	NE	13/01/2014	22:30	7	E
13/01/2014	19:00	3	NE	13/01/2014	22:35	7	ENE
13/01/2014	19:05	3	ENE	13/01/2014	22:40	6	E
13/01/2014	19:10	3	NE	13/01/2014	22:45	5	E
13/01/2014	19:15	0	E	13/01/2014	22:50	6	ESE
13/01/2014	19:20	2	NE	13/01/2014	22:55	4	E
13/01/2014	19:25	3	NE	13/01/2014	23:00	4	E
13/01/2014	19:30	3	NE	13/01/2014	23:05	5	E
13/01/2014	19:35	4	NNE	13/01/2014	23:10	4	SE
13/01/2014	19:40	4	NE	13/01/2014	23:15	3	SSE
13/01/2014	19:45	2	ENE	13/01/2014	23:20	4	NE
13/01/2014	19:50	3	E	13/01/2014	23:25	7	NE
13/01/2014	19:55	3	ESE	13/01/2014	23:30	6	NE
13/01/2014	20:00	4	E	13/01/2014	23:35	5	ENE
13/01/2014	20:05	3	E	13/01/2014	23:40	5	ENE
13/01/2014	20:10	6	NE	13/01/2014	23:45	3	SE
13/01/2014	20:15	2	E	13/01/2014	23:50	3	NE
13/01/2014	20:20	3	NE	13/01/2014	23:55	3	NE
13/01/2014	20:25	3	ENE	14/01/2014	00:00	7	NE
13/01/2014	20:30	2	NE	14/01/2014	00:05	5	NE
13/01/2014	20:35	3	SE	14/01/2014	00:10	4	NE

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date	Time	Wind Speed (mph)	Wind Direction	Date	Time	Wind Speed (mph)	Wind Direction
14/01/2014	00:15	3	ESE	14/01/2014	03:50	2	NW
14/01/2014	00:20	3	E	14/01/2014	03:55	3	NE
14/01/2014	00:25	2	E	14/01/2014	04:00	4	NE
14/01/2014	00:30	1	E	14/01/2014	04:05	3	NE
14/01/2014	00:35	3	N	14/01/2014	04:10	4	E
14/01/2014	00:40	4	NNE	14/01/2014	04:15	2	E
14/01/2014	00:45	3	NE	14/01/2014	04:20	4	NE
14/01/2014	00:50	4	ENE	14/01/2014	04:25	2	NE
14/01/2014	00:55	2	NE	14/01/2014	04:30	2	NE
14/01/2014	01:00	3	ESE	14/01/2014	04:35	3	NNE
14/01/2014	01:05	2	SSE	14/01/2014	04:40	3	NNE
14/01/2014	01:10	2	ESE	14/01/2014	04:45	4	NNE
14/01/2014	01:15	2	NE	14/01/2014	04:50	4	NNE
14/01/2014	01:20	3	ENE	14/01/2014	04:55	3	E
14/01/2014	01:25	5	ENE	14/01/2014	05:00	3	NE
14/01/2014	01:30	3	NE	14/01/2014	05:05	5	E
14/01/2014	01:35	4	ENE	14/01/2014	05:10	4	NE
14/01/2014	01:40	4	NE	14/01/2014	05:15	4	NE
14/01/2014	01:45	3	ENE	14/01/2014	05:20	5	NE
14/01/2014	01:50	4	NE	14/01/2014	05:25	5	NE
14/01/2014	01:55	4	NE	14/01/2014	05:30	4	NE
14/01/2014	02:00	4	NE	14/01/2014	05:35	3	NE
14/01/2014	02:05	3	NE	14/01/2014	05:40	3	NNE
14/01/2014	02:10	5	ENE	14/01/2014	05:45	2	NNE
14/01/2014	02:15	3	ENE	14/01/2014	05:50	3	NE
14/01/2014	02:20	4	E	14/01/2014	05:55	2	NE
14/01/2014	02:25	2	ESE	14/01/2014	06:00	2	E
14/01/2014	02:30	2	E	14/01/2014	06:05	1	E
14/01/2014	02:35	2	E	14/01/2014	06:10	2	SE
14/01/2014	02:40	2	SE	14/01/2014	06:15	1	E
14/01/2014	02:45	0	SE	14/01/2014	06:20	2	E
14/01/2014	02:50	0	NNE	14/01/2014	06:25	1	E
14/01/2014	02:55	2	ESE	14/01/2014	06:30	2	ENE
14/01/2014	03:00	2	ESE	14/01/2014	06:35	3	NNE
14/01/2014	03:05	0	E	14/01/2014	06:40	1	N
14/01/2014	03:10	1	ESE	14/01/2014	06:45	1	ESE
14/01/2014	03:15	0	NNW	14/01/2014	06:50	1	NNE
14/01/2014	03:20	0	---	14/01/2014	06:55	1	ENE
14/01/2014	03:25	1	S	14/01/2014	07:00	4	E
14/01/2014	03:30	0	S	14/01/2014	07:05	3	SE
14/01/2014	03:35	1	NW	14/01/2014	07:10	4	E
14/01/2014	03:40	3	WNW	14/01/2014	07:15	0	E
14/01/2014	03:45	3	W	14/01/2014	07:20	3	NE

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date	Time	Wind Speed (mph)	Wind Direction	Date	Time	Wind Speed (mph)	Wind Direction
14/01/2014	07:25	3	ENE	14/01/2014	11:00	1	WSW
14/01/2014	07:30	1	SSE	14/01/2014	11:05	1	ESE
14/01/2014	07:35	0	E	14/01/2014	11:10	3	E
14/01/2014	07:40	1	ESE	14/01/2014	11:15	1	ESE
14/01/2014	07:45	1	SSE	14/01/2014	11:20	3	E
14/01/2014	07:50	2	SE	14/01/2014	11:25	4	ENE
14/01/2014	07:55	4	E	14/01/2014	11:30	3	ENE
14/01/2014	08:00	2	E	14/01/2014	11:35	3	ENE
14/01/2014	08:05	3	ESE	14/01/2014	11:40	4	ENE
14/01/2014	08:10	4	E	14/01/2014	11:45	5	E
14/01/2014	08:15	3	ESE	14/01/2014	11:50	4	ENE
14/01/2014	08:20	2	ESE	14/01/2014	11:55	3	ENE
14/01/2014	08:25	3	E	14/01/2014	12:00	6	ENE
14/01/2014	08:30	3	SE	14/01/2014	12:05	3	ENE
14/01/2014	08:35	3	ENE	14/01/2014	12:10	5	E
14/01/2014	08:40	3	ESE	14/01/2014	12:15	3	E
14/01/2014	08:45	3	ENE	14/01/2014	12:20	3	SSE
14/01/2014	08:50	2	ESE	14/01/2014	12:25	3	E
14/01/2014	08:55	1	ESE	14/01/2014	12:30	2	ENE
14/01/2014	09:00	3	ESE	14/01/2014	12:35	4	SE
14/01/2014	09:05	3	ENE	14/01/2014	12:40	2	E
14/01/2014	09:10	3	SE	14/01/2014	12:45	3	SSE
14/01/2014	09:15	3	E	14/01/2014	12:50	2	SSE
14/01/2014	09:20	2	E	14/01/2014	12:55	2	ENE
14/01/2014	09:25	2	E	14/01/2014	13:00	2	SE
14/01/2014	09:30	3	E	14/01/2014	13:05	2	SE
14/01/2014	09:35	1	ENE	14/01/2014	13:10	2	SE
14/01/2014	09:40	3	E	14/01/2014	13:15	1	SSE
14/01/2014	09:45	3	E	14/01/2014	13:20	2	ENE
14/01/2014	09:51	7	E	14/01/2014	13:25	0	WNW
14/01/2014	09:55	4	ESE	14/01/2014	13:30	2	ENE
14/01/2014	10:00	2	E	14/01/2014	13:35	1	ENE
14/01/2014	10:05	0	---	14/01/2014	13:40	1	ENE
14/01/2014	10:10	2	NE	14/01/2014	13:45	2	ENE
14/01/2014	10:15	2	ENE	14/01/2014	13:50	2	ENE
14/01/2014	10:20	2	E	14/01/2014	13:55	2	ENE
14/01/2014	10:25	1	NE	14/01/2014	14:00	2	ENE
14/01/2014	10:30	3	ENE	14/01/2014	14:05	2	E
14/01/2014	10:35	1	NNE	14/01/2014	14:10	2	E
14/01/2014	10:40	2	E	14/01/2014	14:15	2	ESE
14/01/2014	10:45	2	ESE	14/01/2014	14:20	2	ENE
14/01/2014	10:50	1	E	14/01/2014	14:25	2	E
14/01/2014	10:55	1	E	14/01/2014	14:30	1	E

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date	Time	Wind Speed (mph)	Wind Direction	Date	Time	Wind Speed (mph)	Wind Direction
14/01/2014	14:35	1	SSE	14/01/2014	18:10	4	SE
14/01/2014	14:40	1	ENE	14/01/2014	18:15	2	ESE
14/01/2014	14:45	1	ENE	14/01/2014	18:20	2	ESE
14/01/2014	14:50	1	ENE	14/01/2014	18:25	3	ESE
14/01/2014	14:55	2	E	14/01/2014	18:30	4	E
14/01/2014	15:00	2	ENE	14/01/2014	18:35	4	ESE
14/01/2014	15:05	1	E	14/01/2014	18:40	3	ESE
14/01/2014	15:10	2	ENE	14/01/2014	18:45	2	SE
14/01/2014	15:15	1	ENE	14/01/2014	18:50	3	ESE
14/01/2014	15:20	1	NE	14/01/2014	18:55	4	E
14/01/2014	15:25	3	SSE	14/01/2014	19:00	4	SE
14/01/2014	15:30	2	E	14/01/2014	19:05	3	ESE
14/01/2014	15:35	2	NE	14/01/2014	19:10	3	E
14/01/2014	15:40	1	ENE	14/01/2014	19:15	2	ESE
14/01/2014	15:45	3	ENE	14/01/2014	19:20	3	ESE
14/01/2014	15:50	5	E	14/01/2014	19:25	5	E
14/01/2014	15:55	4	E	14/01/2014	19:30	3	SE
14/01/2014	16:00	3	ESE	14/01/2014	19:35	3	ESE
14/01/2014	16:05	3	E	14/01/2014	19:40	4	ESE
14/01/2014	16:10	3	SSE	14/01/2014	19:45	5	SSE
14/01/2014	16:15	4	SE	14/01/2014	19:50	4	SE
14/01/2014	16:20	7	E	14/01/2014	19:55	4	SE
14/01/2014	16:25	6	E	14/01/2014	20:00	4	SE
14/01/2014	16:30	4	E	14/01/2014	20:05	4	SSE
14/01/2014	16:35	5	E	14/01/2014	20:10	5	SE
14/01/2014	16:40	5	E	14/01/2014	20:15	4	SE
14/01/2014	16:45	5	E	14/01/2014	20:20	4	SE
14/01/2014	16:50	6	E	14/01/2014	20:25	4	SE
14/01/2014	16:55	6	E	14/01/2014	20:30	5	SE
14/01/2014	17:00	7	E	14/01/2014	20:35	7	SE
14/01/2014	17:05	4	E	14/01/2014	20:40	4	SE
14/01/2014	17:10	6	E	14/01/2014	20:45	5	SE
14/01/2014	17:15	6	E	14/01/2014	20:50	5	SSE
14/01/2014	17:20	6	E	14/01/2014	20:55	5	SE
14/01/2014	17:25	6	ESE	14/01/2014	21:00	5	SE
14/01/2014	17:30	5	ESE	14/01/2014	21:05	3	SSE
14/01/2014	17:35	6	E	14/01/2014	21:10	3	S
14/01/2014	17:40	5	E	14/01/2014	21:15	6	SSE
14/01/2014	17:45	3	SE	14/01/2014	21:20	4	SSE
14/01/2014	17:50	4	SE	14/01/2014	21:25	4	SSE
14/01/2014	17:55	4	SE	14/01/2014	21:30	4	S
14/01/2014	18:00	4	SE	14/01/2014	21:35	3	S
14/01/2014	18:05	4	SE	14/01/2014	21:40	3	S

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date	Time	Wind Speed (mph)	Wind Direction	Date	Time	Wind Speed (mph)	Wind Direction
14/01/2014	21:45	4	SSE	15/01/2014	01:15	6	SSE
14/01/2014	21:50	2	SSE	15/01/2014	01:20	5	SSE
14/01/2014	21:55	2	S	15/01/2014	01:25	6	SSE
14/01/2014	22:00	2	S	15/01/2014	01:30	3	SE
14/01/2014	22:05	2	S	15/01/2014	01:35	4	SSE
14/01/2014	22:10	1	SSE	15/01/2014	01:40	4	SE
14/01/2014	22:15	3	SSE	15/01/2014	01:45	6	SSE
14/01/2014	22:20	2	S	15/01/2014	01:50	5	SSE
14/01/2014	22:25	2	S	15/01/2014	01:55	2	SE
14/01/2014	22:30	3	S	15/01/2014	02:00	1	SE
14/01/2014	22:35	2	S	15/01/2014	02:05	1	SSE
14/01/2014	22:40	3	SSE	15/01/2014	02:10	2	S
14/01/2014	22:45	2	S	15/01/2014	02:15	3	S
14/01/2014	22:50	2	SSE	15/01/2014	02:20	4	SSW
14/01/2014	22:55	1	WSW	15/01/2014	02:25	3	SSW
14/01/2014	23:00	1	WSW	15/01/2014	02:30	3	SSE
14/01/2014	23:05	0	---	15/01/2014	02:35	4	SSE
14/01/2014	23:10	1	NNW	15/01/2014	02:40	4	SSE
14/01/2014	23:15	3	NW	15/01/2014	02:45	6	SSE
14/01/2014	23:20	0	NNW	15/01/2014	02:50	5	SSE
14/01/2014	23:25	1	WSW	15/01/2014	02:55	5	SSE
14/01/2014	23:30	2	SE	15/01/2014	03:00	5	SSE
14/01/2014	23:35	1	WSW	15/01/2014	03:05	4	SSE
14/01/2014	23:40	2	S	15/01/2014	03:10	5	SSE
14/01/2014	23:45	2	SSE	15/01/2014	03:15	5	SSE
14/01/2014	23:50	4	E	15/01/2014	03:20	2	SSE
14/01/2014	23:55	4	SE	15/01/2014	03:25	3	SSE
15/01/2014	00:00	3	E	15/01/2014	03:30	3	SSW
15/01/2014	00:05	1	SE	15/01/2014	03:35	2	SSE
15/01/2014	00:10	2	SSE	15/01/2014	03:40	2	S
15/01/2014	00:15	2	SE	15/01/2014	03:45	2	S
15/01/2014	00:20	3	SSE	15/01/2014	03:50	3	SSE
15/01/2014	00:25	3	SSE	15/01/2014	03:55	2	S
15/01/2014	00:30	4	SSE	15/01/2014	04:00	2	SSW
15/01/2014	00:35	3	SSE	15/01/2014	04:05	2	SSW
15/01/2014	00:40	6	SSE	15/01/2014	04:10	2	S
15/01/2014	00:45	6	SSE	15/01/2014	04:15	1	SSE
15/01/2014	00:50	5	SSE	15/01/2014	04:20	1	S
15/01/2014	00:55	6	SE	15/01/2014	04:25	0	SSW
15/01/2014	01:00	5	SE				
15/01/2014	01:05	6	SSE				
15/01/2014	01:10	6	SSE				

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date	Time	Wind Speed (mph)	Wind Direction	Date	Time	Wind Speed (mph)	Wind Direction
15/01/2014	04:30	0	---	15/01/2014	07:45	8	SSE
15/01/2014	04:35	0	---	15/01/2014	07:50	5	SSE
15/01/2014	04:40	0	---	15/01/2014	07:55	7	SSE
15/01/2014	04:45	0	---	15/01/2014	08:00	5	SSE
15/01/2014	04:50	0	---	15/01/2014	08:05	6	SSE
15/01/2014	04:55	1	E	15/01/2014	08:10	5	SSE
15/01/2014	05:00	3	E	15/01/2014	08:15	5	SSE
15/01/2014	05:05	2	E	15/01/2014	08:20	4	SSE
15/01/2014	05:10	2	E	15/01/2014	08:25	6	SSE
15/01/2014	05:15	1	ESE	15/01/2014	08:30	5	SSE
15/01/2014	05:20	1	E	15/01/2014	08:35	6	SSE
15/01/2014	05:25	1	S	15/01/2014	08:40	5	SSE
15/01/2014	05:30	2	SSE	15/01/2014	08:45	6	SSE
15/01/2014	05:35	2	SSE	15/01/2014	08:50	5	SSE
15/01/2014	05:40	2	SSE	15/01/2014	08:55	7	SSE
15/01/2014	05:45	3	SE	15/01/2014	09:00	7	SSE
15/01/2014	05:50	5	E	15/01/2014	09:05	8	SE
15/01/2014	05:55	3	SE	15/01/2014	09:10	7	SE
15/01/2014	06:00	3	SSE	15/01/2014	09:15	6	SSE
15/01/2014	06:05	3	SE	15/01/2014	09:20	9	SE
15/01/2014	06:10	4	SE	15/01/2014	09:25	8	SE
15/01/2014	06:15	4	SE	15/01/2014	09:30	7	SE
15/01/2014	06:20	4	E	15/01/2014	09:35	6	SSE
15/01/2014	06:25	4	SE	15/01/2014	09:40	6	SE
15/01/2014	06:30	3	SE	15/01/2014	09:45	6	SE
15/01/2014	06:35	4	SE	15/01/2014	09:50	7	SSE
15/01/2014	06:40	3	SE	15/01/2014	09:55	6	SE
15/01/2014	06:45	3	SE	15/01/2014	10:00	6	SE
15/01/2014	06:50	3	SSE	15/01/2014	10:05	5	SSE
15/01/2014	06:55	2	SSE	15/01/2014	10:10	5	SSE
15/01/2014	07:00	2	SSE	15/01/2014	10:15	6	SE
15/01/2014	07:05	4	SSE	15/01/2014	10:20	5	SSE
15/01/2014	07:10	4	SSE	15/01/2014	10:25	5	SSE
15/01/2014	07:15	4	S	15/01/2014	10:30	3	ESE
15/01/2014	07:20	2	SSE	15/01/2014	10:35	3	E
15/01/2014	07:25	3	S	15/01/2014	10:40	4	E
15/01/2014	07:30	4	S	15/01/2014	10:45	3	SE
15/01/2014	07:35	6	SSE	15/01/2014	10:50	4	E
15/01/2014	07:40	7	SSE	15/01/2014	10:55	2	E

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date	Time	Wind Speed (mph)	Wind Direction	Date	Time	Wind Speed (mph)	Wind Direction
15/01/2014	11:00	2	ESE	15/01/2014	14:15	6	SSE
15/01/2014	11:05	4	E	15/01/2014	14:20	6	SSE
15/01/2014	11:10	4	SE	15/01/2014	14:25	5	SE
15/01/2014	11:15	3	SE	15/01/2014	14:30	4	SSE
15/01/2014	11:20	4	E	15/01/2014	14:35	8	SSE
15/01/2014	11:25	3	SE	15/01/2014	14:40	9	SSE
15/01/2014	11:30	3	E	15/01/2014	14:45	8	SSE
15/01/2014	11:35	3	E	15/01/2014	14:50	7	SSE
15/01/2014	11:40	2	E	15/01/2014	14:55	8	SSE
15/01/2014	11:45	3	E	15/01/2014	15:00	7	SSE
15/01/2014	11:50	3	E	15/01/2014	15:05	7	SSE
15/01/2014	11:55	3	E	15/01/2014	15:10	6	SSE
15/01/2014	12:00	4	E	15/01/2014	15:15	5	S
15/01/2014	12:05	2	SSE	15/01/2014	15:20	5	SSE
15/01/2014	12:10	3	ENE	15/01/2014	15:25	4	SE
15/01/2014	12:15	3	SE	15/01/2014	15:30	6	SSE
15/01/2014	12:20	2	NE	15/01/2014	15:35	5	SSE
15/01/2014	12:25	3	ENE	15/01/2014	15:40	4	SE
15/01/2014	12:30	2	NE	15/01/2014	15:45	5	SE
15/01/2014	12:35	5	SE	15/01/2014	15:50	4	SE
15/01/2014	12:40	5	E	15/01/2014	15:55	4	SE
15/01/2014	12:45	7	E	15/01/2014	16:00	7	SE
15/01/2014	12:50	4	SSE	15/01/2014	16:05	7	SE
15/01/2014	12:55	5	SSE	15/01/2014	16:10	4	E
15/01/2014	13:00	6	SSE	15/01/2014	16:15	3	SSE
15/01/2014	13:05	5	SSE	15/01/2014	16:20	4	SSE
15/01/2014	13:10	4	SE	15/01/2014	16:25	3	SE
15/01/2014	13:15	5	SE	15/01/2014	16:30	3	SE
15/01/2014	13:20	6	SSE	15/01/2014	16:35	3	SSE
15/01/2014	13:25	7	SSE	15/01/2014	16:40	3	SE
15/01/2014	13:30	7	SSE	15/01/2014	16:45	3	ESE
15/01/2014	13:35	5	S	15/01/2014	16:50	3	ESE
15/01/2014	13:40	4	SE	15/01/2014	16:55	4	SSE
15/01/2014	13:45	7	SE	15/01/2014	17:00	2	SSE
15/01/2014	13:50	6	SE	15/01/2014	17:05	4	SSE
15/01/2014	13:55	5	SE	15/01/2014	17:10	5	SSE
15/01/2014	14:00	6	ESE	15/01/2014	17:15	3	SE
15/01/2014	14:05	3	E	15/01/2014	17:20	3	SSE
15/01/2014	14:10	4	SW	15/01/2014	17:25	3	SSE

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date	Time	Wind Speed (mph)	Wind Direction	Date	Time	Wind Speed (mph)	Wind Direction
15/01/2014	17:30	4	SSE	15/01/2014	20:45	3	SE
15/01/2014	17:35	3	SSE	15/01/2014	20:50	4	SSE
15/01/2014	17:40	3	SSE	15/01/2014	20:55	5	SE
15/01/2014	17:45	2	SSE	15/01/2014	21:00	3	SSE
15/01/2014	17:50	2	SSE	15/01/2014	21:05	3	E
15/01/2014	17:55	2	SSE	15/01/2014	21:10	4	SE
15/01/2014	18:00	2	SSE	15/01/2014	21:15	4	SW
15/01/2014	18:05	0	SSE	15/01/2014	21:20	2	SE
15/01/2014	18:10	0	E	15/01/2014	21:25	3	SE
15/01/2014	18:15	0	S	15/01/2014	21:30	3	ESE
15/01/2014	18:20	0	E	15/01/2014	21:35	2	SE
15/01/2014	18:25	2	NW	15/01/2014	21:40	3	SSE
15/01/2014	18:30	1	NNE	15/01/2014	21:45	2	ESE
15/01/2014	18:35	1	N	15/01/2014	21:50	2	ESE
15/01/2014	18:40	3	NNE	15/01/2014	21:55	3	E
15/01/2014	18:45	4	NNW	15/01/2014	22:00	2	SE
15/01/2014	18:50	4	NW	15/01/2014	22:05	2	SE
15/01/2014	18:55	4	NW	15/01/2014	22:10	3	SE
15/01/2014	19:00	3	NW	15/01/2014	22:15	2	SSE
15/01/2014	19:05	4	NW	15/01/2014	22:20	4	SSE
15/01/2014	19:10	4	NW	15/01/2014	22:25	4	SE
15/01/2014	19:15	2	W	15/01/2014	22:30	5	SE
15/01/2014	19:20	3	N	15/01/2014	22:35	5	SSE
15/01/2014	19:25	3	N	15/01/2014	22:40	5	SSE
15/01/2014	19:30	3	NE	15/01/2014	22:45	5	SE
15/01/2014	19:35	3	ENE	15/01/2014	22:50	3	SSE
15/01/2014	19:40	3	NNE	15/01/2014	22:55	4	SE
15/01/2014	19:45	2	E	15/01/2014	23:00	3	SE
15/01/2014	19:50	3	E	15/01/2014	23:05	3	SSE
15/01/2014	19:55	3	E	15/01/2014	23:10	4	ESE
15/01/2014	20:00	2	ESE	15/01/2014	23:15	4	SSE
15/01/2014	20:05	4	E	15/01/2014	23:20	4	ESE
15/01/2014	20:10	4	SSE	15/01/2014	23:25	4	SE
15/01/2014	20:15	2	ESE	15/01/2014	23:30	5	SE
15/01/2014	20:20	4	SSE	15/01/2014	23:35	4	SE
15/01/2014	20:25	2	ENE	15/01/2014	23:40	3	SE
15/01/2014	20:30	2	WNW	15/01/2014	23:45	3	SE
15/01/2014	20:35	4	SE	15/01/2014	23:50	5	SE
15/01/2014	20:40	1	NNE	15/01/2014	23:55	4	SE

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date	Time	Wind Speed (mph)	Wind Direction	Date	Time	Wind Speed (mph)	Wind Direction
16/01/2014	00:00	5	S	16/01/2014	03:15	0	---
16/01/2014	00:05	5	SE	16/01/2014	03:20	0	---
16/01/2014	00:10	3	SE	16/01/2014	03:25	0	---
16/01/2014	00:15	3	SE	16/01/2014	03:30	0	---
16/01/2014	00:20	2	SSE	16/01/2014	03:35	0	---
16/01/2014	00:25	1	SSE	16/01/2014	03:40	0	---
16/01/2014	00:30	1	SE	16/01/2014	03:45	0	---
16/01/2014	00:35	3	SSE	16/01/2014	03:50	0	---
16/01/2014	00:40	2	SSE	16/01/2014	03:55	0	---
16/01/2014	00:45	1	SE	16/01/2014	04:00	0	---
16/01/2014	00:50	3	SE	16/01/2014	04:05	0	---
16/01/2014	00:55	3	SSE	16/01/2014	04:10	0	---
16/01/2014	01:00	2	SSE	16/01/2014	04:15	0	---
16/01/2014	01:05	4	SSE	16/01/2014	04:20	0	---
16/01/2014	01:10	4	SE	16/01/2014	04:25	0	---
16/01/2014	01:15	4	SE	16/01/2014	04:30	0	---
16/01/2014	01:20	3	ESE	16/01/2014	04:35	0	---
16/01/2014	01:25	3	SSE	16/01/2014	04:40	0	---
16/01/2014	01:30	3	SSE	16/01/2014	04:45	0	---
16/01/2014	01:35	2	S	16/01/2014	04:50	0	---
16/01/2014	01:40	3	SSE	16/01/2014	04:55	0	---
16/01/2014	01:45	4	SSE	16/01/2014	05:00	0	---
16/01/2014	01:50	3	SSE	16/01/2014	05:05	0	---
16/01/2014	01:55	2	ESE	16/01/2014	05:10	0	---
16/01/2014	02:00	3	E	16/01/2014	05:15	0	---
16/01/2014	02:05	1	SSE	16/01/2014	05:20	0	---
16/01/2014	02:10	1	SE	16/01/2014	05:25	0	---
16/01/2014	02:15	0	SSE	16/01/2014	05:30	0	---
16/01/2014	02:20	2	SE	16/01/2014	05:35	0	---
16/01/2014	02:25	1	SSE	16/01/2014	05:40	0	---
16/01/2014	02:30	0	ESE	16/01/2014	05:45	0	---
16/01/2014	02:35	1	SSE	16/01/2014	05:50	0	---
16/01/2014	02:40	1	S	16/01/2014	05:55	0	---
16/01/2014	02:45	0	ESE	16/01/2014	06:00	0	---
16/01/2014	02:50	0	S	16/01/2014	06:05	0	---
16/01/2014	02:55	1	SE	16/01/2014	06:10	0	---
16/01/2014	03:00	2	S	16/01/2014	06:15	0	---
16/01/2014	03:05	1	S	16/01/2014	06:20	0	---
16/01/2014	03:10	0	---	16/01/2014	06:25	0	---

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date	Time	Wind Speed (mph)	Wind Direction	Date	Time	Wind Speed (mph)	Wind Direction
16/01/2014	06:30	0	---	16/01/2014	09:45	3	E
16/01/2014	06:35	0	---	16/01/2014	09:50	2	ENE
16/01/2014	06:40	0	---	16/01/2014	09:55	1	ENE
16/01/2014	06:45	0	---	16/01/2014	10:00	1	ENE
16/01/2014	06:50	0	---	16/01/2014	10:05	0	---
16/01/2014	06:55	0	---	16/01/2014	10:10	0	---
16/01/2014	07:00	0	---	16/01/2014	10:15	0	---
16/01/2014	07:05	0	---	16/01/2014	10:20	0	---
16/01/2014	07:10	0	---	16/01/2014	10:25	0	---
16/01/2014	07:15	0	---	16/01/2014	10:30	0	---
16/01/2014	07:20	0	---	16/01/2014	10:35	0	---
16/01/2014	07:25	0	---	16/01/2014	10:40	0	---
16/01/2014	07:30	0	---	16/01/2014	10:45	0	---
16/01/2014	07:35	0	---	16/01/2014	10:50	0	---
16/01/2014	07:40	0	---	16/01/2014	10:55	0	---
16/01/2014	07:45	0	---	16/01/2014	11:00	2	E
16/01/2014	07:50	0	---	16/01/2014	11:05	3	E
16/01/2014	07:55	0	---	16/01/2014	11:10	3	E
16/01/2014	08:00	0	---	16/01/2014	11:15	3	ENE
16/01/2014	08:05	0	---	16/01/2014	11:20	2	ENE
16/01/2014	08:10	0	---	16/01/2014	11:25	2	NE
16/01/2014	08:15	0	---	16/01/2014	11:30	3	NE
16/01/2014	08:20	0	---	16/01/2014	11:35	2	NE
16/01/2014	08:25	0	---	16/01/2014	11:40	2	E
16/01/2014	08:30	0	---	16/01/2014	11:45	2	E
16/01/2014	08:35	0	ESE	16/01/2014	11:50	3	E
16/01/2014	08:40	2	SSE	16/01/2014	11:55	4	E
16/01/2014	08:45	3	SE	16/01/2014	12:00	3	E
16/01/2014	08:50	2	SE	16/01/2014	12:05	4	E
16/01/2014	08:55	3	SE	16/01/2014	12:10	4	E
16/01/2014	09:00	3	SE	16/01/2014	12:15	5	E
16/01/2014	09:05	3	SE	16/01/2014	12:20	3	E
16/01/2014	09:10	2	ESE	16/01/2014	12:25	3	E
16/01/2014	09:15	2	ESE	16/01/2014	12:30	4	E
16/01/2014	09:20	3	ESE	16/01/2014	12:35	7	E
16/01/2014	09:25	2	SE	16/01/2014	12:40	5	E
16/01/2014	09:30	1	ESE	16/01/2014	12:45	4	E
16/01/2014	09:35	2	ESE	16/01/2014	12:50	4	E
16/01/2014	09:40	2	ESE	16/01/2014	12:55	5	E

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date	Time	Wind Speed (mph)	Wind Direction	Date	Time	Wind Speed (mph)	Wind Direction
16/01/2014	13:00	7	E	16/01/2014	16:15	0	---
16/01/2014	13:05	6	E	16/01/2014	16:20	1	ENE
16/01/2014	13:10	6	E	16/01/2014	16:25	3	ENE
16/01/2014	13:15	3	E	16/01/2014	16:30	2	ENE
16/01/2014	13:20	4	E	16/01/2014	16:35	3	SE
16/01/2014	13:25	3	ENE	16/01/2014	16:40	3	SE
16/01/2014	13:30	3	NE	16/01/2014	16:45	3	SE
16/01/2014	13:35	7	NNW	16/01/2014	16:50	5	ESE
16/01/2014	13:40	7	NNW	16/01/2014	16:55	3	E
16/01/2014	13:45	7	N	16/01/2014	17:00	4	ESE
16/01/2014	13:50	6	N	16/01/2014	17:05	2	ESE
16/01/2014	13:55	5	N	16/01/2014	17:10	0	S
16/01/2014	14:00	6	NNE	16/01/2014	17:15	1	SSE
16/01/2014	14:05	4	N	16/01/2014	17:20	3	SSE
16/01/2014	14:10	5	N	16/01/2014	17:25	4	SSE
16/01/2014	14:15	4	NE	16/01/2014	17:30	5	SSE
16/01/2014	14:20	4	ENE	16/01/2014	17:35	3	SSE
16/01/2014	14:25	5	NE	16/01/2014	17:40	2	SSE
16/01/2014	14:30	4	NE	16/01/2014	17:45	2	SSE
16/01/2014	14:35	2	E	16/01/2014	17:50	1	S
16/01/2014	14:40	3	NE	16/01/2014	17:55	1	S
16/01/2014	14:45	4	N	16/01/2014	18:00	1	S
16/01/2014	14:50	5	NNW	16/01/2014	18:05	0	S
16/01/2014	14:55	4	NNE	16/01/2014	18:10	0	S
16/01/2014	15:00	4	N	16/01/2014	18:15	0	---
16/01/2014	15:05	2	NNE	16/01/2014	18:20	0	---
16/01/2014	15:10	3	NE	16/01/2014	18:25	0	---
16/01/2014	15:15	3	NE	16/01/2014	18:30	0	---
16/01/2014	15:20	2	N	16/01/2014	18:35	0	---
16/01/2014	15:25	4	NNE	16/01/2014	18:40	0	---
16/01/2014	15:30	5	NNE	16/01/2014	18:45	0	---
16/01/2014	15:35	6	NNW	16/01/2014	18:50	0	---
16/01/2014	15:40	3	N	16/01/2014	18:55	0	---
16/01/2014	15:45	5	N	16/01/2014	19:00	0	---
16/01/2014	15:50	4	N	16/01/2014	19:05	0	---
16/01/2014	15:55	4	NNW	16/01/2014	19:10	0	---
16/01/2014	16:00	4	NNW	16/01/2014	19:15	0	---
16/01/2014	16:05	3	NNW	16/01/2014	19:20	0	---
16/01/2014	16:10	1	NNW	16/01/2014	19:25	0	---

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date	Time	Wind Speed (mph)	Wind Direction	Date	Time	Wind Speed (mph)	Wind Direction
16/01/2014	19:30	0	---	16/01/2014	22:45	0	---
16/01/2014	19:35	0	---	16/01/2014	22:50	0	---
16/01/2014	19:40	0	---	16/01/2014	22:55	0	---
16/01/2014	19:45	0	---	16/01/2014	23:00	0	---
16/01/2014	19:50	0	---	16/01/2014	23:05	0	---
16/01/2014	19:55	0	---	16/01/2014	23:10	0	---
16/01/2014	20:00	0	---	16/01/2014	23:15	0	---
16/01/2014	20:05	0	NW	16/01/2014	23:20	0	---
16/01/2014	20:10	1	NW	16/01/2014	23:25	0	---
16/01/2014	20:15	0	NW	16/01/2014	23:30	0	W
16/01/2014	20:20	1	NW	16/01/2014	23:35	0	W
16/01/2014	20:25	0	---	16/01/2014	23:40	1	SSE
16/01/2014	20:30	1	NW	16/01/2014	23:45	0	---
16/01/2014	20:35	1	NW	16/01/2014	23:50	0	---
16/01/2014	20:40	0	SSW	16/01/2014	23:55	0	---
16/01/2014	20:45	0	---	17/01/2014	00:00	0	---
16/01/2014	20:50	0	SSW	17/01/2014	00:05	0	---
16/01/2014	20:55	0	---	17/01/2014	00:10	0	---
16/01/2014	21:00	0	---	17/01/2014	00:15	0	---
16/01/2014	21:05	0	---	17/01/2014	00:20	0	---
16/01/2014	21:10	1	NW	17/01/2014	00:25	0	---
16/01/2014	21:15	1	WNW	17/01/2014	00:30	0	---
16/01/2014	21:20	0	WNW	17/01/2014	00:35	0	---
16/01/2014	21:25	0	NNW	17/01/2014	00:40	2	W
16/01/2014	21:30	2	WNW	17/01/2014	00:45	1	WNW
16/01/2014	21:35	2	WNW	17/01/2014	00:50	0	WNW
16/01/2014	21:40	2	WNW	17/01/2014	00:55	0	---
16/01/2014	21:45	0	WNW	17/01/2014	01:00	0	---
16/01/2014	21:50	0	---	17/01/2014	01:05	0	---
16/01/2014	21:55	0	---	17/01/2014	01:10	0	---
16/01/2014	22:00	0	---	17/01/2014	01:15	0	---
16/01/2014	22:05	0	---	17/01/2014	01:20	0	---
16/01/2014	22:10	0	---	17/01/2014	01:25	1	WSW
16/01/2014	22:15	0	---	17/01/2014	01:30	0	WSW
16/01/2014	22:20	0	---	17/01/2014	01:35	0	---
16/01/2014	22:25	0	---	17/01/2014	01:40	0	---
16/01/2014	22:30	0	---	17/01/2014	01:45	0	---
16/01/2014	22:35	0	---	17/01/2014	01:50	0	---
16/01/2014	22:40	0	---	17/01/2014	01:55	0	---

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date	Time	Wind Speed (mph)	Wind Direction	Date	Time	Wind Speed (mph)	Wind Direction
17/01/2014	02:00	0	---	17/01/2014	05:15	0	---
17/01/2014	02:05	1	WNW	17/01/2014	05:20	0	---
17/01/2014	02:10	0	WNW	17/01/2014	05:25	0	---
17/01/2014	02:15	0	WNW	17/01/2014	05:30	0	---
17/01/2014	02:20	0	WNW	17/01/2014	05:35	0	---
17/01/2014	02:25	0	---	17/01/2014	05:40	0	---
17/01/2014	02:30	0	---	17/01/2014	05:45	0	---
17/01/2014	02:35	0	---	17/01/2014	05:50	0	---
17/01/2014	02:40	0	WNW	17/01/2014	05:55	0	---
17/01/2014	02:45	1	WNW	17/01/2014	06:00	0	---
17/01/2014	02:50	0	WNW	17/01/2014	06:05	0	---
17/01/2014	02:55	0	---	17/01/2014	06:10	0	---
17/01/2014	03:00	0	---	17/01/2014	06:15	0	---
17/01/2014	03:05	0	---	17/01/2014	06:20	0	---
17/01/2014	03:10	2	WNW	17/01/2014	06:25	0	---
17/01/2014	03:15	0	---	17/01/2014	06:30	0	---
17/01/2014	03:20	0	---	17/01/2014	06:35	0	---
17/01/2014	03:25	0	NW	17/01/2014	06:40	0	---
17/01/2014	03:30	3	WNW	17/01/2014	06:45	0	---
17/01/2014	03:35	1	NW	17/01/2014	06:50	0	---
17/01/2014	03:40	1	WNW	17/01/2014	06:55	0	---
17/01/2014	03:45	2	WNW	17/01/2014	07:00	0	---
17/01/2014	03:50	1	WNW	17/01/2014	07:05	0	---
17/01/2014	03:55	0	---	17/01/2014	07:10	0	---
17/01/2014	04:00	0	---	17/01/2014	07:15	0	---
17/01/2014	04:05	0	---	17/01/2014	07:20	0	---
17/01/2014	04:10	0	---	17/01/2014	07:25	0	---
17/01/2014	04:15	0	---	17/01/2014	07:30	0	---
17/01/2014	04:20	0	---	17/01/2014	07:35	0	---
17/01/2014	04:25	0	---	17/01/2014	07:40	0	---
17/01/2014	04:30	0	---	17/01/2014	07:45	0	---
17/01/2014	04:35	0	---	17/01/2014	07:50	0	---
17/01/2014	04:40	0	---	17/01/2014	07:55	0	---
17/01/2014	04:45	0	---	17/01/2014	08:00	0	---
17/01/2014	04:50	0	---	17/01/2014	08:05	0	---
17/01/2014	04:55	0	---	17/01/2014	08:10	0	---
17/01/2014	05:00	0	---	17/01/2014	08:15	0	---
17/01/2014	05:05	0	---	17/01/2014	08:20	0	---
17/01/2014	05:10	0	---	17/01/2014	08:25	0	---

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date	Time	Wind Speed (mph)	Wind Direction	Date	Time	Wind Speed (mph)	Wind Direction
17/01/2014	08:30	0	W	18/01/2014	16:45	3	NE
17/01/2014	08:35	0	W	18/01/2014	16:50	3	E
17/01/2014	08:40	0	---	18/01/2014	16:55	1	E
17/01/2014	08:45	0	---	18/01/2014	17:00	1	ESE
17/01/2014	08:50	0	---	18/01/2014	17:05	1	E
17/01/2014	08:55	0	---	18/01/2014	17:10	1	ENE
17/01/2014	09:00	0	---	18/01/2014	17:15	0	---
17/01/2014	09:05	0	---	18/01/2014	17:20	0	SW
17/01/2014	09:10	0	---	18/01/2014	17:25	0	---
17/01/2014	09:15	0	---	18/01/2014	17:30	1	SW
17/01/2014	09:20	0	---	18/01/2014	17:35	1	SSW
17/01/2014	09:25	0	---	18/01/2014	17:40	1	SSW
17/01/2014	09:30	0	---	18/01/2014	17:45	2	S
17/01/2014	09:35	0	---	18/01/2014	17:50	2	SSW
17/01/2014	09:40	0	---	18/01/2014	17:55	0	SSW
17/01/2014	09:45	0	---	18/01/2014	18:00	1	SSW
17/01/2014	09:50	0	---	18/01/2014	18:05	0	SSW
17/01/2014	09:55	0	---	18/01/2014	18:10	1	SSE
17/01/2014	10:00	0	---	18/01/2014	18:15	1	SSW
17/01/2014	10:05	0	---	18/01/2014	18:20	0	SSW
18/01/2014	15:10	3	NNW	18/01/2014	18:25	1	SSW
18/01/2014	15:15	2	NE	18/01/2014	18:30	1	WSW
18/01/2014	15:20	1	NNE	18/01/2014	18:35	0	SSE
18/01/2014	15:25	1	ENE	18/01/2014	18:40	1	S
18/01/2014	15:30	3	N	18/01/2014	18:45	1	S
18/01/2014	15:35	4	NNE	18/01/2014	18:50	1	S
18/01/2014	15:40	5	NNE	18/01/2014	18:55	0	SSE
18/01/2014	15:45	3	NNE	18/01/2014	19:00	1	SW
18/01/2014	15:50	2	NNE	18/01/2014	19:05	1	S
18/01/2014	15:55	2	ENE	18/01/2014	19:10	1	S
18/01/2014	16:00	2	ENE	18/01/2014	19:15	0	S
18/01/2014	16:05	2	E	18/01/2014	19:20	1	S
18/01/2014	16:10	2	E	18/01/2014	19:25	1	SSW
18/01/2014	16:15	3	ENE	18/01/2014	19:30	2	S
18/01/2014	16:20	4	NNE	18/01/2014	19:35	1	SSE
18/01/2014	16:25	3	NNE	18/01/2014	19:40	1	S
18/01/2014	16:30	3	NNE	18/01/2014	19:45	3	S
18/01/2014	16:35	3	NE	18/01/2014	19:50	3	S
18/01/2014	16:40	4	N	18/01/2014	19:55	2	S

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date	Time	Wind Speed (mph)	Wind Direction	Date	Time	Wind Speed (mph)	Wind Direction
18/01/2014	20:00	3	SSE	18/01/2014	23:15	0	S
18/01/2014	20:05	2	SSE	18/01/2014	23:20	1	SSE
18/01/2014	20:10	3	SSE	18/01/2014	23:25	1	SSE
18/01/2014	20:15	2	S	18/01/2014	23:30	1	S
18/01/2014	20:20	2	SSE	18/01/2014	23:35	1	S
18/01/2014	20:25	2	S	18/01/2014	23:40	2	SE
18/01/2014	20:30	2	S	18/01/2014	23:45	3	ESE
18/01/2014	20:35	2	SE	18/01/2014	23:50	3	ESE
18/01/2014	20:40	1	S	18/01/2014	23:55	3	SE
18/01/2014	20:45	3	SSE	19/01/2014	00:00	4	SE
18/01/2014	20:50	4	SSE	19/01/2014	00:05	1	SE
18/01/2014	20:55	4	SSE	19/01/2014	00:10	4	SE
18/01/2014	21:00	2	SSE	19/01/2014	00:15	3	SSE
18/01/2014	21:05	1	S	19/01/2014	00:20	2	SSE
18/01/2014	21:10	2	SSW	19/01/2014	00:25	2	SSE
18/01/2014	21:15	1	SSW	19/01/2014	00:30	1	SSE
18/01/2014	21:20	2	SSW	19/01/2014	00:35	2	SE
18/01/2014	21:25	2	SSE	19/01/2014	00:40	3	SE
18/01/2014	21:30	0	SE	19/01/2014	00:45	1	SSE
18/01/2014	21:35	1	SSW	19/01/2014	00:50	0	SSE
18/01/2014	21:40	0	S	19/01/2014	00:55	1	S
18/01/2014	21:45	1	SSE	19/01/2014	01:00	1	S
18/01/2014	21:50	2	S	19/01/2014	01:05	3	SSE
18/01/2014	21:55	0	SSE	19/01/2014	01:10	3	SSE
18/01/2014	22:00	2	SE	19/01/2014	01:15	3	SSE
18/01/2014	22:05	2	ESE	19/01/2014	01:20	3	SSE
18/01/2014	22:10	2	SSE	19/01/2014	01:25	3	SE
18/01/2014	22:15	0	SE	19/01/2014	01:30	1	SSE
18/01/2014	22:20	0	---	19/01/2014	01:35	2	SE
18/01/2014	22:25	1	SSE	19/01/2014	01:40	2	SSE
18/01/2014	22:30	2	S	19/01/2014	01:45	0	SSE
18/01/2014	22:35	3	S	19/01/2014	01:50	2	SSE
18/01/2014	22:40	1	S	19/01/2014	01:55	1	SSE
18/01/2014	22:45	2	S	19/01/2014	02:00	1	S
18/01/2014	22:50	1	S	19/01/2014	02:05	0	---
18/01/2014	22:55	3	S	19/01/2014	02:10	0	---
18/01/2014	23:00	2	SSE	19/01/2014	02:15	0	---
18/01/2014	23:05	2	SSE	19/01/2014	02:20	0	---
18/01/2014	23:10	1	S	19/01/2014	02:25	0	---

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date	Time	Wind Speed (mph)	Wind Direction	Date	Time	Wind Speed (mph)	Wind Direction
19/01/2014	02:30	0	---	19/01/2014	05:45	0	---
19/01/2014	02:35	0	---	19/01/2014	05:50	0	---
19/01/2014	02:40	0	---	19/01/2014	05:55	0	---
19/01/2014	02:45	0	---	19/01/2014	06:00	0	---
19/01/2014	02:50	1	SSW	19/01/2014	06:05	0	---
19/01/2014	02:55	0	SE	19/01/2014	06:10	0	---
19/01/2014	03:00	0	SSW	19/01/2014	06:15	0	---
19/01/2014	03:05	1	W	19/01/2014	06:20	0	---
19/01/2014	03:10	0	W	19/01/2014	06:25	0	---
19/01/2014	03:15	0	---	19/01/2014	06:30	0	---
19/01/2014	03:20	0	---	19/01/2014	06:35	0	---
19/01/2014	03:25	0	---	19/01/2014	06:40	0	---
19/01/2014	03:30	1	SSW	19/01/2014	06:45	0	---
19/01/2014	03:35	0	---	19/01/2014	06:50	0	---
19/01/2014	03:40	0	---	19/01/2014	06:55	0	---
19/01/2014	03:45	0	---	19/01/2014	07:00	0	---
19/01/2014	03:50	0	---	19/01/2014	07:05	0	---
19/01/2014	03:55	0	WSW	19/01/2014	07:10	0	---
19/01/2014	04:00	0	W	19/01/2014	07:15	0	---
19/01/2014	04:05	2	WNW	19/01/2014	07:20	0	---
19/01/2014	04:10	0	NW	19/01/2014	07:25	0	---
19/01/2014	04:15	0	---	19/01/2014	07:30	0	---
19/01/2014	04:20	0	---	19/01/2014	07:35	0	---
19/01/2014	04:25	0	---	19/01/2014	07:40	0	---
19/01/2014	04:30	0	---	19/01/2014	07:45	0	---
19/01/2014	04:35	0	---	19/01/2014	07:50	0	---
19/01/2014	04:40	0	---	19/01/2014	07:55	0	---
19/01/2014	04:45	0	---	19/01/2014	08:00	0	---
19/01/2014	04:50	0	---	19/01/2014	08:05	0	---
19/01/2014	04:55	0	---	19/01/2014	08:10	0	---
19/01/2014	05:00	0	---	19/01/2014	08:15	0	---
19/01/2014	05:05	0	---	19/01/2014	08:20	1	SSE
19/01/2014	05:10	0	---	19/01/2014	08:25	1	SSE
19/01/2014	05:15	0	---	19/01/2014	08:30	1	ESE
19/01/2014	05:20	0	---	19/01/2014	08:35	2	SSE
19/01/2014	05:25	0	---	19/01/2014	08:40	2	SSE
19/01/2014	05:30	0	---	19/01/2014	08:45	3	SSE
19/01/2014	05:35	0	---	19/01/2014	08:50	3	SSE
19/01/2014	05:40	0	---	19/01/2014	08:55	4	SE

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date	Time	Wind Speed (mph)	Wind Direction	Date	Time	Wind Speed (mph)	Wind Direction
19/01/2014	09:00	3	SSE	19/01/2014	12:15	6	SSE
19/01/2014	09:05	5	SE	19/01/2014	12:20	4	SE
19/01/2014	09:10	5	SE	19/01/2014	12:25	4	SSE
19/01/2014	09:15	7	SSE	19/01/2014	12:30	4	SE
19/01/2014	09:20	6	SSE	19/01/2014	12:35	2	ESE
19/01/2014	09:25	6	SSE	19/01/2014	12:40	4	E
19/01/2014	09:30	9	SSE	19/01/2014	12:45	4	E
19/01/2014	09:35	6	SSE	19/01/2014	12:50	2	E
19/01/2014	09:40	8	SSE	19/01/2014	12:55	2	E
19/01/2014	09:45	6	SSE	19/01/2014	13:00	2	ENE
19/01/2014	09:50	6	SSE	19/01/2014	13:05	2	E
19/01/2014	09:55	8	SSE	19/01/2014	13:10	3	E
19/01/2014	10:00	9	SSE	19/01/2014	13:15	2	SE
19/01/2014	10:05	9	SSE	19/01/2014	13:20	1	NE
19/01/2014	10:10	9	SSE	19/01/2014	13:25	2	E
19/01/2014	10:15	7	SSE	19/01/2014	13:30	2	E
19/01/2014	10:20	8	SSE	19/01/2014	13:35	2	E
19/01/2014	10:25	8	SSE	19/01/2014	13:40	2	SE
19/01/2014	10:30	8	SSE	19/01/2014	13:45	2	E
19/01/2014	10:35	7	SSE	19/01/2014	13:50	3	E
19/01/2014	10:40	7	SSE	19/01/2014	13:55	3	E
19/01/2014	10:45	8	SSE	19/01/2014	14:00	2	ENE
19/01/2014	10:50	8	SSE	19/01/2014	14:05	2	NNE
19/01/2014	10:55	7	SSE	19/01/2014	14:10	2	ENE
19/01/2014	11:00	8	SSE	19/01/2014	14:15	2	ENE
19/01/2014	11:05	8	SSE	19/01/2014	14:20	2	E
19/01/2014	11:10	5	SSE	19/01/2014	14:25	2	E
19/01/2014	11:15	6	SE	19/01/2014	14:30	1	S
19/01/2014	11:20	8	SE	19/01/2014	14:35	2	ESE
19/01/2014	11:25	7	SE	19/01/2014	14:40	1	E
19/01/2014	11:30	5	SE	19/01/2014	14:45	1	E
19/01/2014	11:35	5	SSE	19/01/2014	14:50	2	E
19/01/2014	11:40	5	ESE	19/01/2014	14:55	2	ENE
19/01/2014	11:45	4	SE	19/01/2014	15:00	1	ENE
19/01/2014	11:50	4	ESE	19/01/2014	15:05	0	ENE
19/01/2014	11:55	5	E	19/01/2014	15:10	0	ENE
19/01/2014	12:00	5	SE	19/01/2014	15:15	0	ENE
19/01/2014	12:05	5	SSE	19/01/2014	15:20	0	---
19/01/2014	12:10	4	SE	19/01/2014	15:25	0	ENE

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date	Time	Wind Speed (mph)	Wind Direction	Date	Time	Wind Speed (mph)	Wind Direction
19/01/2014	15:30	1	ENE	19/01/2014	18:45	0	---
19/01/2014	15:35	1	NE	19/01/2014	18:50	0	---
19/01/2014	15:40	1	NE	19/01/2014	18:55	0	W
19/01/2014	15:45	0	E	19/01/2014	19:00	0	---
19/01/2014	15:50	0	---	19/01/2014	19:05	0	---
19/01/2014	15:55	0	---	19/01/2014	19:10	0	---
19/01/2014	16:00	0	---	19/01/2014	19:15	0	---
19/01/2014	16:05	1	E	19/01/2014	19:20	0	---
19/01/2014	16:10	0	E	19/01/2014	19:25	0	W
19/01/2014	16:15	0	---	19/01/2014	19:30	2	SSW
19/01/2014	16:20	0	---	19/01/2014	19:35	0	SSW
19/01/2014	16:25	1	ENE	19/01/2014	19:40	0	WNW
19/01/2014	16:30	4	NE	19/01/2014	19:45	0	---
19/01/2014	16:35	4	N	19/01/2014	19:50	0	---
19/01/2014	16:40	4	NNW	19/01/2014	19:55	0	---
19/01/2014	16:45	4	N	19/01/2014	20:00	2	W
19/01/2014	16:50	4	NNE	19/01/2014	20:05	3	WNW
19/01/2014	16:55	4	N	19/01/2014	20:10	2	WNW
19/01/2014	17:00	3	NNW	19/01/2014	20:15	2	WNW
19/01/2014	17:05	0	NNW	19/01/2014	20:20	0	WNW
19/01/2014	17:10	0	---	19/01/2014	20:25	1	W
19/01/2014	17:15	0	---	19/01/2014	20:30	1	NW
19/01/2014	17:20	0	---	19/01/2014	20:35	1	WNW
19/01/2014	17:25	0	---	19/01/2014	20:40	1	WNW
19/01/2014	17:30	0	---	19/01/2014	20:45	0	WNW
19/01/2014	17:35	0	---	19/01/2014	20:50	0	---
19/01/2014	17:40	0	---	19/01/2014	20:55	0	---
19/01/2014	17:45	0	---	19/01/2014	21:00	0	---
19/01/2014	17:50	0	---	19/01/2014	21:05	1	NNW
19/01/2014	17:55	2	SSW	19/01/2014	21:10	2	WNW
19/01/2014	18:00	0	SSW	19/01/2014	21:15	1	W
19/01/2014	18:05	0	---	19/01/2014	21:20	0	W
19/01/2014	18:10	0	---	19/01/2014	21:25	1	WNW
19/01/2014	18:15	0	SSW	19/01/2014	21:30	1	W
19/01/2014	18:20	0	SSW	19/01/2014	21:35	0	W
19/01/2014	18:25	1	S	19/01/2014	21:40	2	W
19/01/2014	18:30	0	---	19/01/2014	21:45	3	W
19/01/2014	18:35	0	---	19/01/2014	21:50	3	W
19/01/2014	18:40	0	---	19/01/2014	21:55	2	W

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date	Time	Wind Speed (mph)	Wind Direction	Date	Time	Wind Speed (mph)	Wind Direction
19/01/2014	22:00	2	W	19/01/2014	23:10	0	---
19/01/2014	22:05	2	W	19/01/2014	23:15	0	---
19/01/2014	22:10	2	W	19/01/2014	23:20	0	---
19/01/2014	22:15	0	W	19/01/2014	23:25	0	---
19/01/2014	22:20	0	---	19/01/2014	23:30	0	---
19/01/2014	22:25	0	---	19/01/2014	23:35	0	---
19/01/2014	22:30	0	WSW	19/01/2014	23:40	0	---
19/01/2014	22:35	3	W	19/01/2014	23:45	0	---
19/01/2014	22:40	2	W	19/01/2014	23:50	0	---
19/01/2014	22:45	2	W	19/01/2014	23:55	0	---
19/01/2014	22:50	0	WSW	20/01/2014	00:00	0	---
19/01/2014	22:55	0	---	20/01/2014	00:05	2	S
19/01/2014	23:00	0	---	20/01/2014	00:10	3	SSW
19/01/2014	23:05	0	---	20/01/2014	00:15	0	SSW
19/01/2014	23:10	0	---	20/01/2014	00:20	1	NW
19/01/2014	23:15	0	---	20/01/2014	00:25	2	NW
19/01/2014	23:20	0	---	20/01/2014	00:30	1	NW
19/01/2014	23:25	0	---	20/01/2014	00:35	0	---
19/01/2014	23:30	0	---	20/01/2014	00:40	0	---
19/01/2014	23:35	0	---	20/01/2014	00:45	0	---
19/01/2014	23:40	0	---	20/01/2014	00:50	0	---
19/01/2014	23:45	0	---	20/01/2014	00:55	0	---
19/01/2014	23:50	0	---	20/01/2014	01:00	1	WNW
19/01/2014	23:55	0	---	20/01/2014	01:05	3	W
20/01/2014	00:00	0	---	20/01/2014	01:10	3	W
19/01/2014	22:00	2	W	20/01/2014	01:15	0	W
19/01/2014	22:05	2	W	20/01/2014	01:20	0	---
19/01/2014	22:10	2	W	20/01/2014	01:25	0	SSW
19/01/2014	22:15	0	W	20/01/2014	01:30	1	S
19/01/2014	22:20	0	---	20/01/2014	01:35	0	S
19/01/2014	22:25	0	---	20/01/2014	01:40	0	---
19/01/2014	22:30	0	WSW	20/01/2014	01:45	1	WNW
19/01/2014	22:35	3	W	20/01/2014	01:50	1	WNW
19/01/2014	22:40	2	W	20/01/2014	01:55	0	WNW
19/01/2014	22:45	2	W	20/01/2014	02:00	0	---
19/01/2014	22:50	0	WSW	20/01/2014	02:05	0	---
19/01/2014	22:55	0	---	20/01/2014	02:10	0	---
19/01/2014	23:00	0	---	20/01/2014	02:15	0	---
19/01/2014	23:05	0	---	20/01/2014	02:20	0	---

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date	Time	Wind Speed (mph)	Wind Direction	Date	Time	Wind Speed (mph)	Wind Direction
20/01/2014	02:25	0	---	20/01/2014	05:40	2	SW
20/01/2014	02:30	2	SW	20/01/2014	05:45	0	NW
20/01/2014	02:35	2	SSW	20/01/2014	05:50	2	WNW
20/01/2014	02:40	2	SSW	20/01/2014	05:55	3	WNW
20/01/2014	02:45	0	SSW	20/01/2014	06:00	2	WNW
20/01/2014	02:50	0	SSW	20/01/2014	06:05	0	---
20/01/2014	02:55	0	W	20/01/2014	06:10	1	W
20/01/2014	03:00	1	W	20/01/2014	06:15	0	NW
20/01/2014	03:05	0	---	20/01/2014	06:20	0	WNW
20/01/2014	03:10	0	---	20/01/2014	06:25	2	NW
20/01/2014	03:15	0	---	20/01/2014	06:30	0	S
20/01/2014	03:20	0	---	20/01/2014	06:35	2	S
20/01/2014	03:25	0	---	20/01/2014	06:40	1	SSW
20/01/2014	03:30	0	---	20/01/2014	06:45	0	---
20/01/2014	03:35	0	---	20/01/2014	06:50	0	---
20/01/2014	03:40	0	---	20/01/2014	06:55	2	SSW
20/01/2014	03:45	1	NNW	20/01/2014	07:00	1	SSW
20/01/2014	03:50	1	NNW	20/01/2014	07:05	0	---
20/01/2014	03:55	0	---	20/01/2014	07:10	0	---
20/01/2014	04:00	0	---	20/01/2014	07:15	0	---
20/01/2014	04:05	0	---	20/01/2014	07:20	0	---
20/01/2014	04:10	0	---	20/01/2014	07:25	0	---
20/01/2014	04:15	0	---	20/01/2014	07:30	0	---
20/01/2014	04:20	0	NNW	20/01/2014	07:35	0	---
20/01/2014	04:25	1	NW	20/01/2014	07:40	0	---
20/01/2014	04:30	0	---	20/01/2014	07:45	0	---
20/01/2014	04:35	0	---	20/01/2014	07:50	0	---
20/01/2014	04:40	0	---	20/01/2014	07:55	0	---
20/01/2014	04:45	0	---	20/01/2014	08:00	0	---
20/01/2014	04:50	3	WNW	20/01/2014	08:05	0	---
20/01/2014	04:55	1	WNW	20/01/2014	08:10	0	---
20/01/2014	05:00	1	S	20/01/2014	08:15	0	---
20/01/2014	05:05	2	SSW	20/01/2014	08:20	0	---
20/01/2014	05:10	0	SSW	20/01/2014	08:25	0	---
20/01/2014	05:15	0	---	20/01/2014	08:30	0	---
20/01/2014	05:20	0	---	20/01/2014	08:35	0	---
20/01/2014	05:25	0	---	20/01/2014	08:40	0	---
20/01/2014	05:30	0	SSW	20/01/2014	08:45	0	---
20/01/2014	05:35	0	---	20/01/2014	08:50	0	---

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date	Time	Wind Speed (mph)	Wind Direction	Date	Time	Wind Speed (mph)	Wind Direction
20/01/2014	08:55	0	---	20/01/2014	12:10	3	NNE
20/01/2014	09:00	0	NNW	20/01/2014	12:15	5	NE
20/01/2014	09:05	1	ENE	20/01/2014	12:20	4	NNE
20/01/2014	09:10	4	NNE	20/01/2014	12:25	6	N
20/01/2014	09:15	2	N	20/01/2014	12:30	5	N
20/01/2014	09:20	2	NNE	20/01/2014	12:35	4	N
20/01/2014	09:25	1	N	20/01/2014	12:40	5	N
20/01/2014	09:30	2	N	20/01/2014	12:45	4	NNW
20/01/2014	09:35	2	N	20/01/2014	12:50	3	NNE
20/01/2014	09:40	1	NNE	20/01/2014	12:55	3	NNE
20/01/2014	09:45	1	NE	20/01/2014	13:00	5	NNW
20/01/2014	09:50	1	NE	20/01/2014	13:05	4	NW
20/01/2014	09:55	2	E	20/01/2014	13:10	5	NNW
20/01/2014	10:00	1	ENE	20/01/2014	13:15	4	WNW
20/01/2014	10:05	0	ENE	20/01/2014	13:20	4	NW
20/01/2014	10:10	1	NNW	20/01/2014	13:25	6	N
20/01/2014	10:15	0	---	20/01/2014	13:30	5	NNW
20/01/2014	10:20	2	E	20/01/2014	13:35	4	NW
20/01/2014	10:25	2	E	20/01/2014	13:40	3	N
20/01/2014	10:30	2	ENE	20/01/2014	13:45	4	NW
20/01/2014	10:35	0	ENE	20/01/2014	13:50	4	N
20/01/2014	10:40	0	ENE	20/01/2014	13:55	2	W
20/01/2014	10:45	2	NE	20/01/2014	14:00	5	NNW
20/01/2014	10:50	2	SSE	20/01/2014	14:05	5	N
20/01/2014	10:55	1	SSE	20/01/2014	14:10	5	NNW
20/01/2014	11:00	2	SE	20/01/2014	14:15	6	NNW
20/01/2014	11:05	1	NW	20/01/2014	14:20	5	NNW
20/01/2014	11:10	4	SW	20/01/2014	14:25	4	N
20/01/2014	11:15	5	S	20/01/2014	14:30	4	NNW
20/01/2014	11:20	3	SW	20/01/2014	14:35	8	N
20/01/2014	11:25	1	SW	20/01/2014	14:40	8	N
20/01/2014	11:30	1	SSE	20/01/2014	14:45	7	NNW
20/01/2014	11:35	1	E	20/01/2014	14:50	5	NNW
20/01/2014	11:40	2	ENE	20/01/2014	14:55	8	N
20/01/2014	11:45	3	ESE	20/01/2014	15:00	8	N
20/01/2014	11:50	2	E	20/01/2014	15:05	10	N
20/01/2014	11:55	1	W	20/01/2014	15:10	10	NNE
20/01/2014	12:00	2	E	20/01/2014	15:15	8	N
20/01/2014	12:05	2	NNE	20/01/2014	15:20	7	N

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date	Time	Wind Speed (mph)	Wind Direction	Date	Time	Wind Speed (mph)	Wind Direction
20/01/2014	15:25	8	NNE	20/01/2014	18:40	0	E
20/01/2014	15:30	7	NNE	20/01/2014	18:45	0	---
20/01/2014	15:35	8	N	20/01/2014	18:50	0	ESE
20/01/2014	15:40	9	N	20/01/2014	18:55	1	E
20/01/2014	15:45	8	N	20/01/2014	19:00	0	E
20/01/2014	15:50	8	N	20/01/2014	19:05	1	E
20/01/2014	15:55	8	N	20/01/2014	19:10	1	E
20/01/2014	16:00	8	N	20/01/2014	19:15	1	NE
20/01/2014	16:05	6	NNE	20/01/2014	19:20	0	NE
20/01/2014	16:10	6	N	20/01/2014	19:25	0	NNE
20/01/2014	16:15	6	NNE	20/01/2014	19:30	0	---
20/01/2014	16:20	6	NNE	20/01/2014	19:35	0	---
20/01/2014	16:25	3	NE	20/01/2014	19:40	0	---
20/01/2014	16:30	5	NE	20/01/2014	19:45	0	---
20/01/2014	16:35	3	E	20/01/2014	19:50	1	SW
20/01/2014	16:40	4	E	20/01/2014	19:55	2	SW
20/01/2014	16:45	6	E	20/01/2014	20:00	2	SSE
20/01/2014	16:50	4	E	20/01/2014	20:05	2	S
20/01/2014	16:55	5	E	20/01/2014	20:10	2	S
20/01/2014	17:00	7	E	20/01/2014	20:15	2	S
20/01/2014	17:05	6	E	20/01/2014	20:20	1	S
20/01/2014	17:10	6	E	20/01/2014	20:25	1	S
20/01/2014	17:15	5	E	20/01/2014	20:30	2	SSE
20/01/2014	17:20	3	ENE	20/01/2014	20:35	1	S
20/01/2014	17:25	3	E	20/01/2014	20:40	1	ENE
20/01/2014	17:30	3	E	20/01/2014	20:45	0	NNW
20/01/2014	17:35	4	E	20/01/2014	20:50	1	E
20/01/2014	17:40	3	E	20/01/2014	20:55	0	SSE
20/01/2014	17:45	4	E	20/01/2014	21:00	0	---
20/01/2014	17:50	4	ESE	20/01/2014	21:05	0	---
20/01/2014	17:55	3	ESE	20/01/2014	21:10	2	S
20/01/2014	18:00	3	E	20/01/2014	21:15	2	SSW
20/01/2014	18:05	2	ESE	20/01/2014	21:20	1	S
20/01/2014	18:10	3	ESE	20/01/2014	21:25	1	S
20/01/2014	18:15	2	ESE	20/01/2014	21:30	2	SSE
20/01/2014	18:20	2	SE	20/01/2014	21:35	1	S
20/01/2014	18:25	2	ESE	20/01/2014	21:40	2	S
20/01/2014	18:30	1	E	20/01/2014	21:45	3	SSE
20/01/2014	18:35	1	NNE	20/01/2014	21:50	3	SSE

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date	Time	Wind Speed (mph)	Wind Direction	Date	Time	Wind Speed (mph)	Wind Direction
20/01/2014	21:55	5	SSE	21/01/2014	00:30	4	SE
20/01/2014	22:00	3	SSE	21/01/2014	00:35	4	ESE
20/01/2014	22:05	4	SSE	21/01/2014	00:40	2	SE
20/01/2014	22:10	2	SSW	21/01/2014	00:45	1	SSW
20/01/2014	22:15	3	SSE	21/01/2014	00:50	3	SSE
20/01/2014	22:20	3	SE	21/01/2014	00:55	3	ESE
20/01/2014	22:25	4	ESE	21/01/2014	01:00	2	E
20/01/2014	22:30	4	SSE	21/01/2014	01:05	2	NE
20/01/2014	22:35	4	SE	21/01/2014	01:10	4	ESE
20/01/2014	22:40	2	SSE	21/01/2014	01:15	3	SE
20/01/2014	22:45	1	SE	21/01/2014	01:20	5	SE
20/01/2014	22:50	2	SE	21/01/2014	01:25	5	SSE
20/01/2014	22:55	2	SSE	21/01/2014	01:30	3	SSE
20/01/2014	23:00	3	SE	21/01/2014	01:35	4	ESE
20/01/2014	23:05	3	SSE	21/01/2014	01:40	6	ESE
20/01/2014	23:10	4	SE	21/01/2014	01:45	5	SE
20/01/2014	23:15	4	SE	21/01/2014	01:50	5	SE
20/01/2014	23:20	4	SE	21/01/2014	01:55	4	SSE
20/01/2014	23:25	4	SE	21/01/2014	02:00	4	ESE
20/01/2014	23:30	3	SSE	21/01/2014	02:05	5	SE
20/01/2014	23:35	5	SSE	21/01/2014	02:10	6	SE
20/01/2014	23:40	5	SSE	21/01/2014	02:15	8	E
20/01/2014	23:45	4	SSE	21/01/2014	02:20	4	E
20/01/2014	23:50	6	E	21/01/2014	02:25	5	SE
20/01/2014	23:55	3	SE	21/01/2014	02:30	4	SE
21/01/2014	00:00	3	ESE	21/01/2014	02:35	6	E
20/01/2014	23:25	4	SE	21/01/2014	02:40	3	SSE
20/01/2014	23:30	3	SSE	21/01/2014	02:45	2	ESE
20/01/2014	23:35	5	SSE	21/01/2014	02:50	2	SE
20/01/2014	23:40	5	SSE	21/01/2014	02:55	2	SE
20/01/2014	23:45	4	SSE	21/01/2014	03:00	4	E
20/01/2014	23:50	6	E	21/01/2014	03:05	4	ESE
20/01/2014	23:55	3	SE	21/01/2014	03:10	4	E
21/01/2014	00:00	3	ESE	21/01/2014	03:15	4	E
21/01/2014	00:05	5	SE	21/01/2014	03:20	6	E
21/01/2014	00:10	5	SE	21/01/2014	03:25	5	E
21/01/2014	00:15	4	SSE	21/01/2014	03:30	4	SE
21/01/2014	00:20	4	SE	21/01/2014	03:35	4	ENE
21/01/2014	00:25	5	SE	21/01/2014	03:40	4	ESE

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date	Time	Wind Speed (mph)	Wind Direction	Date	Time	Wind Speed (mph)	Wind Direction
21/01/2014	03:45	4	SE	21/01/2014	07:00	4	SSE
21/01/2014	03:50	3	ESE	21/01/2014	07:05	6	SSE
21/01/2014	03:55	6	SSE	21/01/2014	07:10	5	SE
21/01/2014	04:00	5	ESE	21/01/2014	07:15	5	E
21/01/2014	04:05	7	SE	21/01/2014	07:20	7	E
21/01/2014	04:10	6	SE	21/01/2014	07:25	5	E
21/01/2014	04:15	7	SE	21/01/2014	07:30	4	SE
21/01/2014	04:20	4	SE	21/01/2014	07:35	5	SE
21/01/2014	04:25	4	ESE	21/01/2014	07:40	6	SE
21/01/2014	04:30	5	ESE	21/01/2014	07:45	3	SE
21/01/2014	04:35	6	SE	21/01/2014	07:50	4	ESE
21/01/2014	04:40	4	SE	21/01/2014	07:55	5	SE
21/01/2014	04:45	2	SSE	21/01/2014	08:00	3	ESE
21/01/2014	04:50	6	SE	21/01/2014	08:05	6	SE
21/01/2014	04:55	3	SSE	21/01/2014	08:10	2	S
21/01/2014	05:00	4	SE	21/01/2014	08:15	2	SSE
21/01/2014	05:05	3	SE	21/01/2014	08:20	4	SSE
21/01/2014	05:10	4	E	21/01/2014	08:25	3	E
21/01/2014	05:15	5	SE	21/01/2014	08:30	7	E
21/01/2014	05:20	5	SSE	21/01/2014	08:35	3	E
21/01/2014	05:25	5	SSE	21/01/2014	08:40	4	ESE
21/01/2014	05:30	4	ENE	21/01/2014	08:45	3	SSE
21/01/2014	05:35	5	E	21/01/2014	08:50	5	E
21/01/2014	05:40	6	SSE	21/01/2014	08:55	7	E
21/01/2014	05:45	4	ESE	21/01/2014	09:00	5	E
21/01/2014	05:50	4	SSE	21/01/2014	09:05	4	E
21/01/2014	05:55	4	SSE	21/01/2014	09:10	5	E
21/01/2014	06:00	2	E	21/01/2014	09:15	7	SE
21/01/2014	06:05	5	ESE	21/01/2014	09:20	5	SSE
21/01/2014	06:10	5	SE	21/01/2014	09:25	6	SE
21/01/2014	06:15	4	E	21/01/2014	09:30	6	ESE
21/01/2014	06:20	4	SSE	21/01/2014	09:35	5	SSE
21/01/2014	06:25	5	SSE	21/01/2014	09:40	6	SE
21/01/2014	06:30	6	SE	21/01/2014	09:45	7	ESE
21/01/2014	06:35	4	SSE	21/01/2014	09:50	5	SE
21/01/2014	06:40	4	SE	21/01/2014	09:55	4	SE
21/01/2014	06:45	3	SE	21/01/2014	10:00	5	SE
21/01/2014	06:50	6	SE	21/01/2014	10:05	5	SE
21/01/2014	06:55	4	SSE	21/01/2014	10:10	6	SSE

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date	Time	Wind Speed (mph)	Wind Direction	Date	Time	Wind Speed (mph)	Wind Direction
21/01/2014	10:15	6	SE	21/01/2014	13:30	5	E
21/01/2014	10:20	6	ESE	21/01/2014	13:35	8	E
21/01/2014	10:25	7	ESE	21/01/2014	13:40	7	E
21/01/2014	10:30	6	ESE	21/01/2014	13:45	7	E
21/01/2014	10:35	7	ESE	21/01/2014	13:50	5	E
21/01/2014	10:40	5	E	21/01/2014	13:55	6	E
21/01/2014	10:45	6	E	21/01/2014	14:00	6	E
21/01/2014	10:50	6	E	21/01/2014	14:05	4	E
21/01/2014	10:55	7	E	21/01/2014	14:10	5	E
21/01/2014	11:00	8	E	21/01/2014	14:15	5	E
21/01/2014	11:05	8	E	21/01/2014	14:20	7	E
21/01/2014	11:10	7	E	21/01/2014	14:25	5	E
21/01/2014	11:15	7	E	21/01/2014	14:30	5	E
21/01/2014	11:20	5	E	21/01/2014	14:35	6	E
21/01/2014	11:25	6	E	21/01/2014	14:40	6	E
21/01/2014	11:30	6	E	21/01/2014	14:45	7	E
21/01/2014	11:35	7	E	21/01/2014	14:50	6	E
21/01/2014	11:40	6	E	21/01/2014	14:55	5	E
21/01/2014	11:45	9	E	21/01/2014	15:00	6	E
21/01/2014	11:50	6	E	21/01/2014	15:05	6	E
21/01/2014	11:55	7	E	21/01/2014	15:10	7	E
21/01/2014	12:00	8	E	21/01/2014	15:15	7	E
21/01/2014	12:05	6	E	21/01/2014	15:20	6	E
21/01/2014	12:10	7	E	21/01/2014	15:25	5	E
21/01/2014	12:15	6	E	21/01/2014	15:30	4	E
21/01/2014	12:20	6	ENE	21/01/2014	15:35	3	E
21/01/2014	12:25	6	E	21/01/2014	15:40	4	E
21/01/2014	12:30	6	ENE	21/01/2014	15:45	3	E
21/01/2014	12:35	6	E	21/01/2014	15:50	3	E
21/01/2014	12:40	7	E	21/01/2014	15:55	4	E
21/01/2014	12:45	6	E	21/01/2014	16:00	2	E
21/01/2014	12:50	6	E	21/01/2014	16:05	4	ENE
21/01/2014	12:55	8	E	21/01/2014	16:10	3	ENE
21/01/2014	13:00	7	ENE	21/01/2014	16:15	2	ENE
21/01/2014	13:05	6	E	21/01/2014	16:20	2	ENE
21/01/2014	13:10	7	E	21/01/2014	16:25	2	E
21/01/2014	13:15	7	E	21/01/2014	16:30	4	ENE
21/01/2014	13:20	7	ENE	21/01/2014	16:35	4	ENE
21/01/2014	13:25	5	E	21/01/2014	16:40	2	E

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date	Time	Wind Speed (mph)	Wind Direction	Date	Time	Wind Speed (mph)	Wind Direction
21/01/2014	16:45	4	E	21/01/2014	20:00	2	S
21/01/2014	16:50	4	E	21/01/2014	20:05	2	S
21/01/2014	16:55	5	E	21/01/2014	20:10	3	S
21/01/2014	17:00	5	E	21/01/2014	20:15	3	S
21/01/2014	17:05	5	E	21/01/2014	20:20	2	S
21/01/2014	17:10	4	E	21/01/2014	20:25	2	SSE
21/01/2014	17:15	5	E	21/01/2014	20:30	2	SSE
21/01/2014	17:20	5	E	21/01/2014	20:35	3	SE
21/01/2014	17:25	5	E	21/01/2014	20:40	1	SSW
21/01/2014	17:30	4	E	21/01/2014	20:45	2	SE
21/01/2014	17:35	4	E	21/01/2014	20:50	3	SE
21/01/2014	17:40	3	ENE	21/01/2014	20:55	2	SSE
21/01/2014	17:45	3	E	21/01/2014	21:00	3	SSE
21/01/2014	17:50	2	E	21/01/2014	21:05	3	SE
21/01/2014	17:55	4	E	21/01/2014	21:10	1	SSE
21/01/2014	18:00	3	E	21/01/2014	21:15	2	SSE
21/01/2014	18:05	3	E	21/01/2014	21:20	2	SE
21/01/2014	18:10	2	E	21/01/2014	21:25	2	S
21/01/2014	18:15	1	SE	21/01/2014	21:30	2	SSE
21/01/2014	18:20	2	E	21/01/2014	21:35	2	SSE
21/01/2014	18:25	2	E	21/01/2014	21:40	3	SE
21/01/2014	18:30	1	NNE	21/01/2014	21:45	5	SE
21/01/2014	18:35	1	ESE	21/01/2014	21:50	3	SSE
21/01/2014	18:40	2	SE	21/01/2014	21:55	3	S
21/01/2014	18:45	1	ESE	21/01/2014	22:00	5	SSE
21/01/2014	18:50	0	S	21/01/2014	22:05	5	SSE
21/01/2014	18:55	1	S	21/01/2014	22:10	4	SSE
21/01/2014	19:00	1	SE	21/01/2014	22:15	5	SSE
21/01/2014	19:05	1	S	21/01/2014	22:20	4	SSE
21/01/2014	19:10	2	S	21/01/2014	22:25	4	SSE
21/01/2014	19:15	2	S	21/01/2014	22:30	3	SSE
21/01/2014	19:20	1	S	21/01/2014	22:35	5	SSE
21/01/2014	19:25	0	---	21/01/2014	22:40	5	SSE
21/01/2014	19:30	0	---	21/01/2014	22:45	5	SSE
21/01/2014	19:35	0	---	21/01/2014	22:50	6	SSE
21/01/2014	19:40	0	---	21/01/2014	22:55	7	SE
21/01/2014	19:45	0	---	21/01/2014	23:00	6	SE
21/01/2014	19:50	0	---	21/01/2014	23:05	5	SSE
21/01/2014	19:55	0	S	21/01/2014	23:10	6	SSE

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date	Time	Wind Speed (mph)	Wind Direction	Date	Time	Wind Speed (mph)	Wind Direction
21/01/2014	23:15	7	SSE	22/01/2014	02:30	7	SE
21/01/2014	23:20	8	SE	22/01/2014	02:35	8	SE
21/01/2014	23:25	7	SE	22/01/2014	02:40	8	SE
21/01/2014	23:30	6	SE	22/01/2014	02:45	6	SE
21/01/2014	23:35	7	SE	22/01/2014	02:50	5	SE
21/01/2014	23:40	8	SE	22/01/2014	02:55	7	SE
21/01/2014	23:45	6	SE	22/01/2014	03:00	7	SE
21/01/2014	23:50	7	SE	22/01/2014	03:05	6	SE
21/01/2014	23:55	7	SE	22/01/2014	03:10	5	SSE
22/01/2014	00:00	6	ESE	22/01/2014	03:15	5	SE
22/01/2014	00:05	6	SE	22/01/2014	03:20	4	SE
22/01/2014	00:10	8	ESE	22/01/2014	03:25	3	S
22/01/2014	00:15	6	SE	22/01/2014	03:30	2	S
22/01/2014	00:20	7	SE	22/01/2014	03:35	1	SSE
22/01/2014	00:25	6	SE	22/01/2014	03:40	3	S
22/01/2014	00:30	6	SE	22/01/2014	03:45	3	SSE
22/01/2014	00:35	5	ESE	22/01/2014	03:50	2	S
22/01/2014	00:40	4	SE	22/01/2014	03:55	3	S
22/01/2014	00:45	6	SE	22/01/2014	04:00	2	S
22/01/2014	00:50	5	SSE	22/01/2014	04:05	4	S
22/01/2014	00:55	7	SE	22/01/2014	04:10	2	S
22/01/2014	01:00	5	SSE	22/01/2014	04:15	2	S
22/01/2014	01:05	6	SE	22/01/2014	04:20	3	S
22/01/2014	01:10	5	SSE	22/01/2014	04:25	3	S
22/01/2014	01:15	3	SE	22/01/2014	04:30	2	SSE
22/01/2014	01:20	4	SSE	22/01/2014	04:35	2	S
22/01/2014	01:25	3	S	22/01/2014	04:40	4	SSE
22/01/2014	01:30	3	SSE	22/01/2014	04:45	3	S
22/01/2014	01:35	2	S	22/01/2014	04:50	3	SSW
22/01/2014	01:40	3	S	22/01/2014	04:55	2	SSW
22/01/2014	01:45	5	SE	22/01/2014	05:00	2	SSW
22/01/2014	01:50	6	SE	22/01/2014	05:05	3	SSE
22/01/2014	01:55	7	SE	22/01/2014	05:10	3	SSE
22/01/2014	02:00	7	SE	22/01/2014	05:15	3	SSE
22/01/2014	02:05	7	ESE	22/01/2014	05:20	3	S
22/01/2014	02:10	6	SE	22/01/2014	05:25	3	S
22/01/2014	02:15	7	SE	22/01/2014	05:30	3	SSE
22/01/2014	02:20	7	SE	22/01/2014	05:35	4	SSE
22/01/2014	02:25	7	SSE	22/01/2014	05:40	4	S

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date	Time	Wind Speed (mph)	Wind Direction	Date	Time	Wind Speed (mph)	Wind Direction
22/01/2014	05:45	4	SSE	22/01/2014	09:00	1	S
22/01/2014	05:50	4	S	22/01/2014	09:05	0	---
22/01/2014	05:55	4	SSE	22/01/2014	09:10	0	---
22/01/2014	06:00	4	SSE	22/01/2014	09:15	0	---
22/01/2014	06:05	3	S	22/01/2014	09:20	0	---
22/01/2014	06:10	4	SSE	22/01/2014	09:25	1	E
22/01/2014	06:15	3	SSE	22/01/2014	09:30	3	ESE
22/01/2014	06:20	4	S	22/01/2014	09:35	3	SSE
22/01/2014	06:25	4	SSE	22/01/2014	09:40	3	SSE
22/01/2014	06:30	4	SSE	22/01/2014	09:45	1	SE
22/01/2014	06:35	5	SSE	22/01/2014	09:50	2	ESE
22/01/2014	06:40	6	SSE	22/01/2014	09:55	1	ESE
22/01/2014	06:45	4	SSE	22/01/2014	10:00	1	ESE
22/01/2014	06:50	4	SSE	22/01/2014	10:05	0	---
22/01/2014	06:55	4	SSE	22/01/2014	10:10	0	---
22/01/2014	07:00	3	SSE	22/01/2014	10:15	0	---
22/01/2014	07:05	2	S	22/01/2014	10:20	1	ENE
22/01/2014	07:10	0	---	22/01/2014	10:25	2	ENE
22/01/2014	07:15	0	S	22/01/2014	10:30	2	E
22/01/2014	07:20	2	S	22/01/2014	10:35	1	E
22/01/2014	07:25	1	SW	22/01/2014	10:40	1	ENE
22/01/2014	07:30	1	S	22/01/2014	10:45	0	E
22/01/2014	07:35	0	SW	22/01/2014	10:50	1	E
22/01/2014	07:40	1	SW	22/01/2014	10:55	1	NE
22/01/2014	07:45	1	NW	22/01/2014	11:00	2	ENE
22/01/2014	07:50	1	NW	22/01/2014	11:05	1	ENE
22/01/2014	07:55	3	SW	22/01/2014	11:10	0	NE
22/01/2014	08:00	3	SSW	22/01/2014	11:15	2	E
22/01/2014	08:05	2	SSW	22/01/2014	11:20	2	E
22/01/2014	08:10	3	SE	22/01/2014	11:25	3	E
22/01/2014	08:15	3	SW	22/01/2014	11:30	3	ENE
22/01/2014	08:20	4	SSW	22/01/2014	11:35	3	E
22/01/2014	08:25	2	S	22/01/2014	11:40	3	E
22/01/2014	08:30	3	SSE	22/01/2014	11:45	2	E
22/01/2014	08:35	2	SSE	22/01/2014	11:50	3	ENE
22/01/2014	08:40	2	SSE	22/01/2014	11:55	2	ENE
22/01/2014	08:45	2	SSW	22/01/2014	12:00	2	ENE
22/01/2014	08:50	1	S	22/01/2014	12:05	2	E
22/01/2014	08:55	1	S	22/01/2014	12:10	2	E

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date	Time	Wind Speed (mph)	Wind Direction	Date	Time	Wind Speed (mph)	Wind Direction
22/01/2014	12:15	2	ESE	22/01/2014	15:30	4	WNW
22/01/2014	12:20	3	NE	22/01/2014	15:35	4	NW
22/01/2014	12:25	1	NNE	22/01/2014	15:40	5	NW
22/01/2014	12:30	3	N	22/01/2014	15:45	5	N
22/01/2014	12:35	2	ESE	22/01/2014	15:50	4	NW
22/01/2014	12:40	1	E	22/01/2014	15:55	5	NW
22/01/2014	12:45	1	E	22/01/2014	16:00	5	N
22/01/2014	12:50	1	ENE	22/01/2014	16:05	4	N
22/01/2014	12:55	2	NE	22/01/2014	16:10	4	N
22/01/2014	13:00	4	NNE	22/01/2014	16:15	5	NNE
22/01/2014	13:05	5	N	22/01/2014	16:20	6	N
22/01/2014	13:10	7	N	22/01/2014	16:25	5	N
22/01/2014	13:15	7	NNE	22/01/2014	16:30	4	N
22/01/2014	13:20	7	N	22/01/2014	16:35	5	NNW
22/01/2014	13:25	6	N	22/01/2014	16:40	5	N
22/01/2014	13:30	6	N	22/01/2014	16:45	5	N
22/01/2014	13:35	5	NNE	22/01/2014	16:50	4	NNE
22/01/2014	13:40	6	N	22/01/2014	16:55	5	NNW
22/01/2014	13:45	6	N	22/01/2014	17:00	5	N
22/01/2014	13:50	6	NNE	22/01/2014	17:05	4	N
22/01/2014	13:55	6	N	22/01/2014	17:10	3	N
22/01/2014	14:00	6	NNE	22/01/2014	17:15	4	N
22/01/2014	14:05	5	N	22/01/2014	17:20	5	N
22/01/2014	14:10	7	N	22/01/2014	17:25	4	NNW
22/01/2014	14:15	5	N	22/01/2014	17:30	3	NNW
22/01/2014	14:20	7	NNW	22/01/2014	17:35	4	N
22/01/2014	14:25	6	NW	22/01/2014	17:40	2	N
22/01/2014	14:30	6	NW	22/01/2014	17:45	2	WNW
22/01/2014	14:35	4	NW	22/01/2014	17:50	1	W
22/01/2014	14:40	6	NW	22/01/2014	17:55	2	W
22/01/2014	14:45	5	NW	22/01/2014	18:00	3	W
22/01/2014	14:50	4	NW	22/01/2014	18:05	4	W
22/01/2014	14:55	4	NW	22/01/2014	18:10	2	WNW
22/01/2014	15:00	3	WNW	22/01/2014	18:15	3	WNW
22/01/2014	15:05	5	N	22/01/2014	18:20	1	E
22/01/2014	15:10	3	N	22/01/2014	18:25	0	NNW
22/01/2014	15:15	6	N	22/01/2014	18:30	3	WNW
22/01/2014	15:20	4	NNW	22/01/2014	18:35	3	W
22/01/2014	15:25	6	NW	22/01/2014	18:40	2	WNW

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date	Time	Wind Speed (mph)	Wind Direction	Date	Time	Wind Speed (mph)	Wind Direction
22/01/2014	18:45	4	W	22/01/2014	22:00	0	NW
22/01/2014	18:50	3	W	22/01/2014	22:05	0	NW
22/01/2014	18:55	2	W	22/01/2014	22:10	0	---
22/01/2014	19:00	4	W	22/01/2014	22:15	0	---
22/01/2014	19:05	3	W	22/01/2014	22:20	0	---
22/01/2014	19:10	3	W	22/01/2014	22:25	0	---
22/01/2014	19:15	3	WNW	22/01/2014	22:30	0	---
22/01/2014	19:20	2	WNW	22/01/2014	22:35	0	---
22/01/2014	19:25	3	W	22/01/2014	22:40	0	---
22/01/2014	19:30	2	W	22/01/2014	22:45	0	---
22/01/2014	19:35	2	WSW	22/01/2014	22:50	0	---
22/01/2014	19:40	0	WSW	22/01/2014	22:55	0	---
22/01/2014	19:45	0	WSW	22/01/2014	23:00	0	---
22/01/2014	19:50	2	W	22/01/2014	23:05	0	---
22/01/2014	19:55	3	W	22/01/2014	23:10	0	---
22/01/2014	20:00	2	W	22/01/2014	23:15	0	---
22/01/2014	20:05	0	W	22/01/2014	23:20	0	---
22/01/2014	20:10	1	SSW	22/01/2014	23:25	0	---
22/01/2014	20:15	0	SSW	22/01/2014	23:30	3	N
22/01/2014	20:20	0	---	22/01/2014	23:35	3	NW
22/01/2014	20:25	0	WSW	22/01/2014	23:40	3	WNW
22/01/2014	20:30	0	WSW	22/01/2014	23:45	3	NW
22/01/2014	20:35	1	WSW	22/01/2014	23:50	2	WNW
22/01/2014	20:40	0	---	22/01/2014	23:55	1	WNW
22/01/2014	20:45	0	---	23/01/2014	00:00	3	NW
22/01/2014	20:50	0	---	23/01/2014	00:05	3	NW
22/01/2014	20:55	0	---	23/01/2014	00:10	2	NW
22/01/2014	21:00	0	---	23/01/2014	00:15	3	WNW
22/01/2014	21:05	0	S	23/01/2014	00:20	1	S
22/01/2014	21:10	0	S	23/01/2014	00:25	1	NW
22/01/2014	21:15	0	---	23/01/2014	00:30	1	NW
22/01/2014	21:20	0	---	23/01/2014	00:35	2	W
22/01/2014	21:25	0	---	23/01/2014	00:40	2	SE
22/01/2014	21:30	0	---	23/01/2014	00:45	2	SSW
22/01/2014	21:35	0	---	23/01/2014	00:50	0	SSW
22/01/2014	21:40	0	---	23/01/2014	00:55	0	---
22/01/2014	21:45	0	---	23/01/2014	01:00	0	---
22/01/2014	21:50	0	---	23/01/2014	01:05	1	ESE
22/01/2014	21:55	1	NW	23/01/2014	01:10	0	SSE

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date	Time	Wind Speed (mph)	Wind Direction	Date	Time	Wind Speed (mph)	Wind Direction
23/01/2014	01:15	1	SSE	23/01/2014	04:30	0	NNW
23/01/2014	01:20	0	---	23/01/2014	04:35	1	ESE
23/01/2014	01:25	0	---	23/01/2014	04:40	2	SSE
23/01/2014	01:30	0	---	23/01/2014	04:45	1	SE
23/01/2014	01:35	0	---	23/01/2014	04:50	0	SSE
23/01/2014	01:40	0	---	23/01/2014	04:55	2	S
23/01/2014	01:45	0	---	23/01/2014	05:00	3	SSE
23/01/2014	01:50	0	---	23/01/2014	05:05	3	SSE
23/01/2014	01:55	0	---	23/01/2014	05:10	4	SSE
23/01/2014	02:00	0	---	23/01/2014	05:15	2	SE
23/01/2014	02:05	0	---	23/01/2014	05:20	1	SE
23/01/2014	02:10	0	---	23/01/2014	05:25	3	SE
23/01/2014	02:15	0	---	23/01/2014	05:30	4	SSE
23/01/2014	02:20	0	---	23/01/2014	05:35	5	SE
23/01/2014	02:25	0	---	23/01/2014	05:40	5	SSE
23/01/2014	02:30	1	ESE	23/01/2014	05:45	4	SSE
23/01/2014	02:35	2	ESE	23/01/2014	05:50	4	SE
23/01/2014	02:40	3	SSE	23/01/2014	05:55	4	SSE
23/01/2014	02:45	3	SE	23/01/2014	06:00	3	SSE
23/01/2014	02:50	6	SE	23/01/2014	06:05	5	SSE
23/01/2014	02:55	4	SSE	23/01/2014	06:10	5	ESE
23/01/2014	03:00	4	SSE	23/01/2014	06:15	4	SSE
23/01/2014	03:05	3	SSE	23/01/2014	06:20	2	ESE
23/01/2014	03:10	3	SSE	23/01/2014	06:25	3	SE
23/01/2014	03:15	4	SSE	23/01/2014	06:30	4	SE
23/01/2014	03:20	5	SE	23/01/2014	06:35	3	SW
23/01/2014	03:25	4	SE	23/01/2014	06:40	4	SSW
23/01/2014	03:30	3	SSE	23/01/2014	06:45	3	SE
23/01/2014	03:35	3	SSE	23/01/2014	06:50	4	SSE
23/01/2014	03:40	3	SSE	23/01/2014	06:55	1	SE
23/01/2014	03:45	3	SSE	23/01/2014	07:00	4	SSE
23/01/2014	03:50	3	SSE	23/01/2014	07:05	4	SE
23/01/2014	03:55	4	SSE	23/01/2014	07:10	3	SSE
23/01/2014	04:00	2	SSE	23/01/2014	07:15	2	SSE
23/01/2014	04:05	3	SSE	23/01/2014	07:20	2	E
23/01/2014	04:10	2	SSE	23/01/2014	07:25	1	SSE
23/01/2014	04:15	1	E	23/01/2014	07:30	2	E
23/01/2014	04:20	1	SE	23/01/2014	07:35	2	SE
23/01/2014	04:25	1	NNW	23/01/2014	07:40	3	SE

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date	Time	Wind Speed (mph)	Wind Direction	Date	Time	Wind Speed (mph)	Wind Direction
23/01/2014	07:45	3	SE	23/01/2014	11:00	6	SE
23/01/2014	07:50	4	SSE	23/01/2014	11:05	4	SE
23/01/2014	07:55	4	SE	23/01/2014	11:10	6	ESE
23/01/2014	08:00	4	SSE	23/01/2014	11:15	6	SE
23/01/2014	08:05	4	SSE	23/01/2014	11:20	5	SE
23/01/2014	08:10	4	SE	23/01/2014	11:25	6	SE
23/01/2014	08:15	3	SE	23/01/2014	11:30	6	SE
23/01/2014	08:20	0	SE	23/01/2014	11:35	6	SE
23/01/2014	08:25	3	SSE	23/01/2014	11:40	4	SSE
23/01/2014	08:30	3	SSE	23/01/2014	11:45	4	ESE
23/01/2014	08:35	4	SSE	23/01/2014	11:50	6	ESE
23/01/2014	08:40	2	SE	23/01/2014	11:55	5	ESE
23/01/2014	08:45	4	SE	23/01/2014	12:00	2	SW
23/01/2014	08:50	4	SE	23/01/2014	12:05	3	E
23/01/2014	08:55	5	SE	23/01/2014	12:10	5	SE
23/01/2014	09:00	5	SE	23/01/2014	12:15	6	E
23/01/2014	09:05	5	SE	23/01/2014	12:20	4	E
23/01/2014	09:10	4	SE	23/01/2014	12:25	4	E
23/01/2014	09:15	6	SE	23/01/2014	12:30	5	ENE
23/01/2014	09:20	4	SE	23/01/2014	12:35	5	E
23/01/2014	09:25	5	SE	23/01/2014	12:40	3	NE
23/01/2014	09:30	5	SE	23/01/2014	12:45	6	E
23/01/2014	09:35	6	SE	23/01/2014	12:50	5	E
23/01/2014	09:40	6	SE	23/01/2014	12:55	4	ESE
23/01/2014	09:45	6	SE	23/01/2014	13:00	4	SSE
23/01/2014	09:50	7	SE	23/01/2014	13:05	5	E
23/01/2014	09:55	7	SE	23/01/2014	13:10	4	E
23/01/2014	10:00	6	SSE	23/01/2014	13:15	4	E
23/01/2014	10:05	6	SE	23/01/2014	13:20	3	E
23/01/2014	10:10	6	SE	23/01/2014	13:25	3	ENE
23/01/2014	10:15	6	SE	23/01/2014	13:30	3	NE
23/01/2014	10:20	4	SSE	23/01/2014	13:35	3	E
23/01/2014	10:25	5	SE	23/01/2014	13:40	5	NNW
23/01/2014	10:30	6	SE	23/01/2014	13:45	6	NNW
23/01/2014	10:35	5	SSE	23/01/2014	13:50	4	NNW
23/01/2014	10:40	6	SSE	23/01/2014	13:55	8	NNW
23/01/2014	10:45	4	SE	23/01/2014	14:00	10	NNW
23/01/2014	10:50	6	ESE	23/01/2014	14:05	9	NNW
23/01/2014	10:55	6	SE	23/01/2014	14:10	7	NNW

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date	Time	Wind Speed (mph)	Wind Direction	Date	Time	Wind Speed (mph)	Wind Direction
23/01/2014	14:15	5	NNW	23/01/2014	17:30	2	N
23/01/2014	14:20	7	N	23/01/2014	17:35	2	NW
23/01/2014	14:25	7	N	23/01/2014	17:40	1	NNW
23/01/2014	14:30	8	NNW	23/01/2014	17:45	1	NNW
23/01/2014	14:35	6	NNW	23/01/2014	17:50	1	NW
23/01/2014	14:40	7	N	23/01/2014	17:55	0	---
23/01/2014	14:45	7	N	23/01/2014	18:00	0	---
23/01/2014	14:50	7	N	23/01/2014	18:05	0	---
23/01/2014	14:55	7	NNW	23/01/2014	18:10	0	---
23/01/2014	15:00	6	NNE	23/01/2014	18:15	0	---
23/01/2014	15:05	5	N	23/01/2014	18:20	0	---
23/01/2014	15:10	3	N	23/01/2014	18:25	1	S
23/01/2014	15:15	3	NNE	23/01/2014	18:30	1	S
23/01/2014	15:20	3	ENE	23/01/2014	18:35	3	NW
23/01/2014	15:25	3	ENE	23/01/2014	18:40	1	WNW
23/01/2014	15:30	3	ENE	23/01/2014	18:45	1	WNW
23/01/2014	15:35	4	ESE	23/01/2014	18:50	2	W
23/01/2014	15:40	4	SE	23/01/2014	18:55	3	W
23/01/2014	15:45	4	ESE	23/01/2014	19:00	1	WNW
23/01/2014	15:50	4	SE	23/01/2014	19:05	0	---
23/01/2014	15:55	5	ESE	23/01/2014	19:10	0	---
23/01/2014	16:00	4	SE	23/01/2014	19:15	0	---
23/01/2014	16:05	4	E	23/01/2014	19:20	0	---
23/01/2014	16:10	4	E	23/01/2014	19:25	0	---
23/01/2014	16:15	4	E	23/01/2014	19:30	2	N
23/01/2014	16:20	4	E	23/01/2014	19:35	1	WSW
23/01/2014	16:25	2	ENE	23/01/2014	19:40	0	---
23/01/2014	16:30	1	ESE	23/01/2014	19:45	2	NNE
23/01/2014	16:35	4	ESE	23/01/2014	19:50	3	SSE
23/01/2014	16:40	3	ESE	23/01/2014	19:55	4	ESE
23/01/2014	16:45	3	ESE	23/01/2014	20:00	4	ESE
23/01/2014	16:50	1	ESE	23/01/2014	20:05	4	SE
23/01/2014	16:55	1	ENE	23/01/2014	20:10	4	SE
23/01/2014	17:00	2	E	23/01/2014	20:15	4	SE
23/01/2014	17:05	4	N	23/01/2014	20:20	4	SE
23/01/2014	17:10	2	WSW	23/01/2014	20:25	6	SSE
23/01/2014	17:15	1	NNW	23/01/2014	20:30	5	SSE
23/01/2014	17:20	3	NNW	23/01/2014	20:35	3	SSE
23/01/2014	17:25	1	NNW	23/01/2014	20:40	4	SSE

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date	Time	Wind Speed (mph)	Wind Direction	Date	Time	Wind Speed (mph)	Wind Direction
23/01/2014	20:45	1	SSE	24/01/2014	00:00	2	E
23/01/2014	20:50	1	NNW	24/01/2014	00:05	1	N
23/01/2014	20:55	1	NNW	24/01/2014	00:10	0	---
23/01/2014	21:00	1	NNE	24/01/2014	00:15	0	---
23/01/2014	21:05	2	NNE	24/01/2014	00:20	1	NNW
23/01/2014	21:10	2	NE	24/01/2014	00:25	1	NW
23/01/2014	21:15	3	E	24/01/2014	00:30	0	---
23/01/2014	21:20	6	NW	24/01/2014	00:35	0	---
23/01/2014	21:25	6	NW	24/01/2014	00:40	0	---
23/01/2014	21:30	2	NNE	24/01/2014	00:45	1	SE
23/01/2014	21:35	1	NW	24/01/2014	00:50	1	E
23/01/2014	21:40	2	NW	24/01/2014	00:55	2	NNW
23/01/2014	21:45	3	N	24/01/2014	01:00	1	NW
23/01/2014	21:50	1	NNW	24/01/2014	01:05	2	NW
23/01/2014	21:55	2	NW	24/01/2014	01:10	2	WNW
23/01/2014	22:00	3	NW	24/01/2014	01:15	2	NW
23/01/2014	22:05	2	NW	24/01/2014	01:20	2	NNW
23/01/2014	22:10	3	WNW	24/01/2014	01:25	1	N
23/01/2014	22:15	2	NW	24/01/2014	01:30	3	NW
23/01/2014	22:20	1	SSE	24/01/2014	01:35	3	NNW
23/01/2014	22:25	3	NW	24/01/2014	01:40	1	SW
23/01/2014	22:30	2	WNW	24/01/2014	01:45	0	NNW
23/01/2014	22:35	0	WNW	24/01/2014	01:50	2	NNE
23/01/2014	22:40	1	NW	24/01/2014	01:55	1	SSE
23/01/2014	22:45	0	---	24/01/2014	02:00	0	---
23/01/2014	22:50	2	ENE	24/01/2014	02:05	3	NNW
23/01/2014	22:55	2	N	24/01/2014	02:10	3	NW
23/01/2014	23:00	2	NNE	24/01/2014	02:15	0	NW
23/01/2014	23:05	1	NNW	24/01/2014	02:20	1	ESE
23/01/2014	23:10	0	E	24/01/2014	02:25	1	W
23/01/2014	23:15	2	NNW	24/01/2014	02:30	0	---
23/01/2014	23:20	1	E	24/01/2014	02:35	0	---
23/01/2014	23:25	2	NNE	24/01/2014	02:40	0	---
23/01/2014	23:30	0	WNW	24/01/2014	02:45	0	---
23/01/2014	23:35	0	NNW	24/01/2014	02:50	0	---
23/01/2014	23:40	2	N	24/01/2014	02:55	0	---
23/01/2014	23:45	2	NW	24/01/2014	03:00	0	SSW
23/01/2014	23:50	3	NW	24/01/2014	03:05	1	NE
23/01/2014	23:55	2	NW	24/01/2014	03:10	0	NW

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date	Time	Wind Speed (mph)	Wind Direction	Date	Time	Wind Speed (mph)	Wind Direction
24/01/2014	03:15	0	---	24/01/2014	06:30	7	SSE
24/01/2014	03:20	0	---	24/01/2014	06:35	4	SSE
24/01/2014	03:25	0	---	24/01/2014	06:40	5	SE
24/01/2014	03:30	0	---	24/01/2014	06:45	7	SE
24/01/2014	03:35	1	ENE	24/01/2014	06:50	6	SE
24/01/2014	03:40	1	ENE	24/01/2014	06:55	7	SE
24/01/2014	03:45	1	ENE	24/01/2014	07:00	7	SSE
24/01/2014	03:50	1	ESE	24/01/2014	07:05	6	SSE
24/01/2014	03:55	2	N	24/01/2014	07:10	5	SE
24/01/2014	04:00	1	NW	24/01/2014	07:15	3	ESE
24/01/2014	04:05	0	---	24/01/2014	07:20	3	SSE
24/01/2014	04:10	0	---	24/01/2014	07:25	2	ESE
24/01/2014	04:15	0	NW	24/01/2014	07:30	4	SE
24/01/2014	04:20	0	E	24/01/2014	07:35	2	ENE
24/01/2014	04:25	0	---	24/01/2014	07:40	2	E
24/01/2014	04:30	0	---	24/01/2014	07:45	2	E
24/01/2014	04:35	0	---	24/01/2014	07:50	4	SE
24/01/2014	04:40	1	NW	24/01/2014	07:55	5	SSE
24/01/2014	04:45	2	NNW	24/01/2014	08:00	5	SE
24/01/2014	04:50	5	NNW	24/01/2014	08:05	7	SE
24/01/2014	04:55	4	NNW	24/01/2014	08:10	5	SSE
24/01/2014	05:00	3	NW	24/01/2014	08:15	6	SSE
24/01/2014	05:05	1	NW	24/01/2014	08:20	5	SSE
24/01/2014	05:10	1	NW	24/01/2014	08:25	8	SSE
24/01/2014	05:15	0	S	24/01/2014	08:30	10	SSE
24/01/2014	05:20	0	---	24/01/2014	08:35	11	SSE
24/01/2014	05:25	0	N	24/01/2014	08:40	11	SSE
24/01/2014	05:30	1	NE	24/01/2014	08:45	11	SSE
24/01/2014	05:35	2	NNE	24/01/2014	08:50	11	SSE
24/01/2014	05:40	1	SE	24/01/2014	08:55	11	SSE
24/01/2014	05:45	2	SSE	24/01/2014	09:00	11	SSE
24/01/2014	05:50	3	SE	24/01/2014	09:05	8	SSE
24/01/2014	05:55	3	SE	24/01/2014	09:10	6	SSE
24/01/2014	06:00	5	SSE	24/01/2014	09:15	7	SSE
24/01/2014	06:05	3	SSE	24/01/2014	09:20	9	SSE
24/01/2014	06:10	6	SE	24/01/2014	09:25	9	SSE
24/01/2014	06:15	6	SSE	24/01/2014	09:30	7	SSE
24/01/2014	06:20	8	SSE	24/01/2014	09:35	6	SSE
24/01/2014	06:25	8	SSE	24/01/2014	09:40	9	SE

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date	Time	Wind Speed (mph)	Wind Direction	Date	Time	Wind Speed (mph)	Wind Direction
24/01/2014	09:45	8	SE	24/01/2014	13:00	5	S
24/01/2014	09:50	7	SE	24/01/2014	13:05	7	SSE
24/01/2014	09:55	10	SE	24/01/2014	13:10	12	SSE
24/01/2014	10:00	9	SE	24/01/2014	13:15	11	SSE
24/01/2014	10:05	9	SE	24/01/2014	13:20	10	SSE
24/01/2014	10:10	6	SSE	24/01/2014	13:25	6	SSE
24/01/2014	10:15	7	SSE	24/01/2014	13:30	6	SE
24/01/2014	10:20	9	SE	24/01/2014	13:35	4	SSE
24/01/2014	10:25	9	SSE	24/01/2014	13:40	5	SE
24/01/2014	10:30	10	SE	24/01/2014	13:45	6	SSE
24/01/2014	10:35	9	SE	24/01/2014	13:50	4	SSE
24/01/2014	10:40	9	SE	24/01/2014	13:55	5	SSE
24/01/2014	10:45	9	SE	24/01/2014	14:00	5	SE
24/01/2014	10:50	8	SE	24/01/2014	14:05	6	SE
24/01/2014	10:55	10	SE	24/01/2014	14:10	10	SE
24/01/2014	11:00	11	SE	24/01/2014	14:15	8	SSE
24/01/2014	11:05	10	SE	24/01/2014	14:20	7	SSE
24/01/2014	11:10	11	SE	24/01/2014	14:25	5	SSE
24/01/2014	11:15	9	SE	24/01/2014	14:30	9	SSE
24/01/2014	11:20	11	SE	24/01/2014	14:35	8	SSE
24/01/2014	11:25	11	SE	24/01/2014	14:40	6	SE
24/01/2014	11:30	14	SE	24/01/2014	14:45	6	SSE
24/01/2014	11:35	13	SE	24/01/2014	14:50	8	SSE
24/01/2014	11:40	12	SE	24/01/2014	14:55	8	SE
24/01/2014	11:45	12	SE	24/01/2014	15:00	8	SSE
24/01/2014	11:50	12	SE	24/01/2014	15:05	9	SSE
24/01/2014	11:55	11	ESE	24/01/2014	15:10	7	SSE
24/01/2014	12:00	11	SE	24/01/2014	15:15	6	SE
24/01/2014	12:05	11	SE	24/01/2014	15:20	7	SSE
24/01/2014	12:10	9	SE	24/01/2014	15:25	11	SSE
24/01/2014	12:15	8	SE	24/01/2014	15:30	7	SSE
24/01/2014	12:20	9	ESE	24/01/2014	15:35	7	SSE
24/01/2014	12:25	6	SSE	24/01/2014	15:40	6	SSE
24/01/2014	12:30	7	ESE	24/01/2014	15:45	6	SSE
24/01/2014	12:35	6	E	24/01/2014	15:50	4	SE
24/01/2014	12:40	6	SE	24/01/2014	15:55	3	SE
24/01/2014	12:45	9	SE	24/01/2014	16:00	1	NW
24/01/2014	12:50	10	SE	24/01/2014	16:05	2	NE
24/01/2014	12:55	8	SSE	24/01/2014	16:10	7	SSE

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date	Time	Wind Speed (mph)	Wind Direction	Date	Time	Wind Speed (mph)	Wind Direction
24/01/2014	16:15	6	SE	24/01/2014	19:30	4	ESE
24/01/2014	16:20	3	SSE	24/01/2014	19:35	3	ENE
24/01/2014	16:25	7	SSE	24/01/2014	19:40	6	NNE
24/01/2014	16:30	7	SSE	24/01/2014	19:45	7	NNE
24/01/2014	16:35	8	SE	24/01/2014	19:50	5	E
24/01/2014	16:40	8	S	24/01/2014	19:55	7	N
24/01/2014	16:45	6	S	24/01/2014	20:00	5	N
24/01/2014	16:50	5	E	24/01/2014	20:05	4	N
24/01/2014	16:55	5	SE	24/01/2014	20:10	3	NE
24/01/2014	17:00	5	SSE	24/01/2014	20:15	6	NNE
24/01/2014	17:05	6	ESE	24/01/2014	20:20	9	NNE
24/01/2014	17:10	4	ESE	24/01/2014	20:25	8	N
24/01/2014	17:15	5	SSE	24/01/2014	20:30	5	N
24/01/2014	17:20	5	WSW	24/01/2014	20:35	5	NNW
24/01/2014	17:25	4	W	24/01/2014	20:40	5	NNW
24/01/2014	17:30	3	S	24/01/2014	20:45	6	N
24/01/2014	17:35	6	ESE	24/01/2014	20:50	6	NW
24/01/2014	17:40	3	ESE	24/01/2014	20:55	4	N
24/01/2014	17:45	3	ESE	24/01/2014	21:00	5	NNE
24/01/2014	17:50	3	ENE	24/01/2014	21:05	4	NNW
24/01/2014	17:55	5	SSE	24/01/2014	21:10	3	NNW
24/01/2014	18:00	4	NNE	24/01/2014	21:15	6	NNW
24/01/2014	18:05	5	SE	24/01/2014	21:20	5	N
24/01/2014	18:10	4	NNE	24/01/2014	21:25	5	N
24/01/2014	18:15	5	WNW	24/01/2014	21:30	5	NNE
24/01/2014	18:20	4	E	24/01/2014	21:35	4	NNE
24/01/2014	18:25	5	SE	24/01/2014	21:40	4	NNW
24/01/2014	18:30	3	NE	24/01/2014	21:45	6	NNW
24/01/2014	18:35	4	NE	24/01/2014	21:50	6	NNW
24/01/2014	18:40	2	WNW	24/01/2014	21:55	5	NNW
24/01/2014	18:45	3	NE	24/01/2014	22:00	5	NNW
24/01/2014	18:50	6	NE	24/01/2014	22:05	4	NNW
24/01/2014	18:55	5	NE	24/01/2014	22:10	4	NNE
24/01/2014	19:00	4	ESE	24/01/2014	22:15	6	N
24/01/2014	19:05	5	E	24/01/2014	22:20	6	NNW
24/01/2014	19:10	3	NE	24/01/2014	22:25	7	NNW
24/01/2014	19:15	2	NNW	24/01/2014	22:30	6	NE
24/01/2014	19:20	6	NE	24/01/2014	22:35	14	NNW
24/01/2014	19:25	6	ENE	24/01/2014	22:40	10	NNW

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date	Time	Wind Speed (mph)	Wind Direction	Date	Time	Wind Speed (mph)	Wind Direction
24/01/2014	22:45	8	NNW	25/01/2014	02:00	7	SE
24/01/2014	22:50	6	NNE	25/01/2014	02:05	8	SE
24/01/2014	22:55	6	NE	25/01/2014	02:10	6	SE
24/01/2014	23:00	5	NNE	25/01/2014	02:15	7	SE
24/01/2014	23:05	8	NNW	25/01/2014	02:20	7	SE
24/01/2014	23:10	9	NNW	25/01/2014	02:25	10	SE
24/01/2014	23:15	5	N	25/01/2014	02:30	9	SE
24/01/2014	23:20	8	NW	25/01/2014	02:35	7	SE
24/01/2014	23:25	6	NW	25/01/2014	02:40	6	SE
24/01/2014	23:30	5	NW	25/01/2014	02:45	6	SE
24/01/2014	23:35	3	NNW	25/01/2014	02:50	6	SE
24/01/2014	23:40	5	E	25/01/2014	02:55	5	SE
24/01/2014	23:45	8	E	25/01/2014	03:00	5	SE
24/01/2014	23:50	7	ESE	25/01/2014	03:05	4	SE
24/01/2014	23:55	8	E	25/01/2014	03:10	6	SE
25/01/2014	00:00	7	ESE	25/01/2014	03:15	6	SE
25/01/2014	00:05	8	SE	25/01/2014	03:20	5	SE
25/01/2014	00:10	7	SE	25/01/2014	03:25	5	SE
25/01/2014	00:15	8	ESE	25/01/2014	03:30	5	SE
25/01/2014	00:20	7	SE	25/01/2014	03:35	4	ESE
25/01/2014	00:25	8	SE	25/01/2014	03:40	4	ESE
25/01/2014	00:30	8	SE	25/01/2014	03:45	4	ESE
25/01/2014	00:35	9	SE	25/01/2014	03:50	5	SE
25/01/2014	00:40	9	SE	25/01/2014	03:55	3	SE
25/01/2014	00:45	8	SE	25/01/2014	04:00	4	SE
25/01/2014	00:50	10	SE	25/01/2014	04:05	5	ESE
25/01/2014	00:55	9	SE	25/01/2014	04:10	6	ESE
25/01/2014	01:00	9	SE	25/01/2014	04:15	6	E
25/01/2014	01:05	10	SE	25/01/2014	04:20	6	ESE
25/01/2014	01:10	10	SE	25/01/2014	04:25	4	SE
25/01/2014	01:15	9	SE	25/01/2014	04:30	4	SE
25/01/2014	01:20	7	SE	25/01/2014	04:35	3	SE
25/01/2014	01:25	5	ESE	25/01/2014	04:40	3	ESE
25/01/2014	01:30	8	SE	25/01/2014	04:45	4	ESE
25/01/2014	01:35	9	SE	25/01/2014	04:50	4	ESE
25/01/2014	01:40	8	SE	25/01/2014	04:55	2	ESE
25/01/2014	01:45	9	SE	25/01/2014	05:00	1	S
25/01/2014	01:50	8	SE	25/01/2014	05:05	3	ESE
25/01/2014	01:55	7	SE	25/01/2014	05:10	3	SE

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date	Time	Wind Speed (mph)	Wind Direction	Date	Time	Wind Speed (mph)	Wind Direction
25/01/2014	05:15	4	E	25/01/2014	08:30	6	E
25/01/2014	05:20	5	E	25/01/2014	08:35	6	ESE
25/01/2014	05:25	5	E	25/01/2014	08:40	4	E
25/01/2014	05:30	6	E	25/01/2014	08:45	3	E
25/01/2014	05:35	5	ESE	25/01/2014	08:50	5	E
25/01/2014	05:40	2	SE	25/01/2014	08:55	4	E
25/01/2014	05:45	1	SE	25/01/2014	09:00	7	E
25/01/2014	05:50	2	ENE	25/01/2014	09:05	5	E
25/01/2014	05:55	2	E	25/01/2014	09:10	5	E
25/01/2014	06:00	2	NE	25/01/2014	09:15	5	E
25/01/2014	06:05	0	ESE	25/01/2014	09:20	5	E
25/01/2014	06:10	1	WSW	25/01/2014	09:25	5	E
25/01/2014	06:15	1	SSE	25/01/2014	09:30	6	E
25/01/2014	06:20	1	SSE	25/01/2014	09:35	4	E
25/01/2014	06:25	0	---	25/01/2014	09:40	5	E
25/01/2014	06:30	0	---	25/01/2014	09:45	2	E
25/01/2014	06:35	0	---	25/01/2014	09:50	2	NE
25/01/2014	06:40	0	---	25/01/2014	09:55	3	NNE
25/01/2014	06:45	1	NNW	25/01/2014	10:00	3	NNE
25/01/2014	06:50	2	N	25/01/2014	10:05	2	NE
25/01/2014	06:55	3	NW	25/01/2014	10:10	3	NE
25/01/2014	07:00	4	NW	25/01/2014	10:15	0	NE
25/01/2014	07:05	2	NW	25/01/2014	10:20	1	E
25/01/2014	07:10	2	NW	25/01/2014	10:25	2	E
25/01/2014	07:15	1	NNW	25/01/2014	10:30	2	E
25/01/2014	07:20	0	N	25/01/2014	10:35	2	ENE
25/01/2014	07:25	1	N	25/01/2014	10:40	1	NE
25/01/2014	07:30	2	N	25/01/2014	10:45	0	NNW
25/01/2014	07:35	2	NE	25/01/2014	10:50	2	NE
25/01/2014	07:40	3	N	25/01/2014	10:55	2	E
25/01/2014	07:45	2	NW	25/01/2014	11:00	3	E
25/01/2014	07:50	6	E	25/01/2014	11:05	3	ENE
25/01/2014	07:55	5	ESE	25/01/2014	11:10	3	ENE
25/01/2014	08:00	6	E	25/01/2014	11:15	2	ENE
25/01/2014	08:05	5	ESE	25/01/2014	11:20	2	NE
25/01/2014	08:10	6	E	25/01/2014	11:25	2	NE
25/01/2014	08:15	6	ESE	25/01/2014	11:30	2	NE
25/01/2014	08:20	7	E	25/01/2014	11:35	1	E
25/01/2014	08:25	8	E	25/01/2014	11:40	1	E

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date	Time	Wind Speed (mph)	Wind Direction	Date	Time	Wind Speed (mph)	Wind Direction
25/01/2014	11:45	1	ENE	25/01/2014	15:00	5	NNW
25/01/2014	11:50	3	ENE	25/01/2014	15:05	4	N
25/01/2014	11:55	4	NE	25/01/2014	15:10	4	N
25/01/2014	12:00	6	N	25/01/2014	15:15	6	N
25/01/2014	12:05	5	N	25/01/2014	15:20	5	NNW
25/01/2014	12:10	6	N	25/01/2014	15:25	3	NNW
25/01/2014	12:15	6	N	25/01/2014	15:30	3	N
25/01/2014	12:20	7	N	25/01/2014	15:35	2	N
25/01/2014	12:25	8	NNW	25/01/2014	15:40	3	NNE
25/01/2014	12:30	8	N	25/01/2014	15:45	3	NNE
25/01/2014	12:35	7	N	25/01/2014	15:50	2	N
25/01/2014	12:40	5	N	25/01/2014	15:55	1	NNE
25/01/2014	12:45	5	N	25/01/2014	16:00	2	ESE
25/01/2014	12:50	5	N	25/01/2014	16:05	2	SE
25/01/2014	12:55	5	N	25/01/2014	16:10	3	SE
25/01/2014	13:00	6	N	25/01/2014	16:15	2	ESE
25/01/2014	13:05	6	N	25/01/2014	16:20	3	SE
25/01/2014	13:10	7	NNE	25/01/2014	16:25	2	SSE
25/01/2014	13:15	5	NNE	25/01/2014	16:30	2	ESE
25/01/2014	13:20	4	NNE	25/01/2014	16:35	3	E
25/01/2014	13:25	5	NNE	25/01/2014	16:40	1	SE
25/01/2014	13:30	4	N	25/01/2014	16:45	2	E
25/01/2014	13:35	3	N	25/01/2014	16:50	2	E
25/01/2014	13:40	3	N	25/01/2014	16:55	2	E
25/01/2014	13:45	4	N	25/01/2014	17:00	2	E
25/01/2014	13:50	4	NE	25/01/2014	17:05	2	E
25/01/2014	13:55	4	N	25/01/2014	17:10	2	E
25/01/2014	14:00	3	N	25/01/2014	17:15	2	E
25/01/2014	14:05	4	NNW	25/01/2014	17:20	1	E
25/01/2014	14:10	3	N	25/01/2014	17:25	0	E
25/01/2014	14:15	3	WNW	25/01/2014	17:30	0	E
25/01/2014	14:20	6	NNW	25/01/2014	17:35	0	---
25/01/2014	14:25	6	NNW	25/01/2014	17:40	1	ESE
25/01/2014	14:30	5	NW	25/01/2014	17:45	1	ESE
25/01/2014	14:35	5	NNW	25/01/2014	17:50	1	ESE
25/01/2014	14:40	2	NNW	25/01/2014	17:55	0	SE
25/01/2014	14:45	5	NNW	25/01/2014	18:00	0	SSE
25/01/2014	14:50	6	N	25/01/2014	18:05	1	SSE
25/01/2014	14:55	5	NNW	25/01/2014	18:10	2	ESE

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date	Time	Wind Speed (mph)	Wind Direction	Date	Time	Wind Speed (mph)	Wind Direction
25/01/2014	18:15	2	ESE	25/01/2014	21:30	1	S
25/01/2014	18:20	0	SE	25/01/2014	21:35	1	SSE
25/01/2014	18:25	0	SE	25/01/2014	21:40	1	SE
25/01/2014	18:30	1	SW	25/01/2014	21:45	1	SE
25/01/2014	18:35	1	S	25/01/2014	21:50	0	W
25/01/2014	18:40	0	SSW	25/01/2014	21:55	0	W
25/01/2014	18:45	1	NW	25/01/2014	22:00	0	SE
25/01/2014	18:50	0	NW	25/01/2014	22:05	0	E
25/01/2014	18:55	1	ENE	25/01/2014	22:10	1	ESE
25/01/2014	19:00	2	SE	25/01/2014	22:15	4	SE
25/01/2014	19:05	3	SE	25/01/2014	22:20	2	SE
25/01/2014	19:10	3	SE	25/01/2014	22:25	2	SSE
25/01/2014	19:15	2	SSE	25/01/2014	22:30	3	SSE
25/01/2014	19:20	2	S	25/01/2014	22:35	3	SSE
25/01/2014	19:25	2	SSE	25/01/2014	22:40	1	SSE
25/01/2014	19:30	5	SSE	25/01/2014	22:45	3	SE
25/01/2014	19:35	3	S	25/01/2014	22:50	0	SSE
25/01/2014	19:40	4	SSE	25/01/2014	22:55	0	SSE
25/01/2014	19:45	3	SSE	25/01/2014	23:00	1	SSE
25/01/2014	19:50	1	SE	25/01/2014	23:05	0	---
25/01/2014	19:55	1	S	25/01/2014	23:10	0	---
25/01/2014	20:00	0	WSW	25/01/2014	23:15	0	---
25/01/2014	20:05	0	SE	25/01/2014	23:20	0	---
25/01/2014	20:10	0	SE	25/01/2014	23:25	0	---
25/01/2014	20:15	0	SE	25/01/2014	23:30	0	---
25/01/2014	20:20	0	---	25/01/2014	23:35	0	---
25/01/2014	20:25	1	E	25/01/2014	23:40	0	---
25/01/2014	20:30	1	NW	25/01/2014	23:45	0	---
25/01/2014	20:35	0	WNW	25/01/2014	23:50	0	---
25/01/2014	20:40	0	WNW	25/01/2014	23:55	0	---
25/01/2014	20:45	0	---	26/01/2014	00:00	1	ESE
25/01/2014	20:50	0	---	26/01/2014	00:05	1	NE
25/01/2014	20:55	0	---	26/01/2014	00:10	0	---
25/01/2014	21:00	2	SSE	26/01/2014	00:15	0	---
25/01/2014	21:05	2	SSE	26/01/2014	00:20	0	---
25/01/2014	21:10	1	S	26/01/2014	00:25	0	---
25/01/2014	21:15	2	SSE	26/01/2014	00:30	0	---
25/01/2014	21:20	2	S	26/01/2014	00:35	0	---
25/01/2014	21:25	3	SSE	26/01/2014	00:40	0	---

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date	Time	Wind Speed (mph)	Wind Direction	Date	Time	Wind Speed (mph)	Wind Direction
26/01/2014	00:45	0	---	26/01/2014	04:00	0	---
26/01/2014	00:50	0	---	26/01/2014	04:05	0	---
26/01/2014	00:55	0	---	26/01/2014	04:10	0	---
26/01/2014	01:00	0	---	26/01/2014	04:15	0	---
26/01/2014	01:05	0	---	26/01/2014	04:20	0	---
26/01/2014	01:10	0	---	26/01/2014	04:25	0	---
26/01/2014	01:15	0	---	26/01/2014	04:30	0	---
26/01/2014	01:20	0	---	26/01/2014	04:35	0	---
26/01/2014	01:25	0	---	26/01/2014	04:40	0	---
26/01/2014	01:30	0	---	26/01/2014	04:45	0	---
26/01/2014	01:35	0	---	26/01/2014	04:50	0	---
26/01/2014	01:40	0	---	26/01/2014	04:55	0	---
26/01/2014	01:45	0	---	26/01/2014	05:00	0	---
26/01/2014	01:50	0	---	26/01/2014	05:05	0	---
26/01/2014	01:55	0	---	26/01/2014	05:10	0	---
26/01/2014	02:00	0	---	26/01/2014	05:15	0	---
26/01/2014	02:05	0	---	26/01/2014	05:20	0	---
26/01/2014	02:10	0	---	26/01/2014	05:25	0	---
26/01/2014	02:15	0	---	26/01/2014	05:30	0	---
26/01/2014	02:20	0	---	26/01/2014	05:35	0	---
26/01/2014	02:25	0	---	26/01/2014	05:40	0	---
26/01/2014	02:30	0	---	26/01/2014	05:45	0	---
26/01/2014	02:35	0	---	26/01/2014	05:50	0	---
26/01/2014	02:40	0	---	26/01/2014	05:55	0	---
26/01/2014	02:45	0	---	26/01/2014	06:00	0	---
26/01/2014	02:50	0	---	26/01/2014	06:05	0	---
26/01/2014	02:55	0	---	26/01/2014	06:10	0	---
26/01/2014	03:00	0	---	26/01/2014	06:15	0	---
26/01/2014	03:05	0	---	26/01/2014	06:20	0	---
26/01/2014	03:10	0	---	26/01/2014	06:25	0	---
26/01/2014	03:15	0	---	26/01/2014	06:30	0	---
26/01/2014	03:20	0	---	26/01/2014	06:35	0	---
26/01/2014	03:25	0	---	26/01/2014	06:40	0	---
26/01/2014	03:30	0	---	26/01/2014	06:45	0	---
26/01/2014	03:35	0	---	26/01/2014	06:50	0	---
26/01/2014	03:40	0	---	26/01/2014	06:55	0	---
26/01/2014	03:45	0	---	26/01/2014	07:00	0	---
26/01/2014	03:50	0	---	26/01/2014	07:05	0	---
26/01/2014	03:55	0	---	26/01/2014	07:10	0	---

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date	Time	Wind Speed (mph)	Wind Direction	Date	Time	Wind Speed (mph)	Wind Direction
26/01/2014	07:15	0	---	26/01/2014	10:30	1	E
26/01/2014	07:20	0	---	26/01/2014	10:35	2	NE
26/01/2014	07:25	0	---	26/01/2014	10:40	2	ENE
26/01/2014	07:30	0	---	26/01/2014	10:45	2	E
26/01/2014	07:35	0	---	26/01/2014	10:50	2	E
26/01/2014	07:40	0	---	26/01/2014	10:55	2	E
26/01/2014	07:45	0	---	26/01/2014	11:00	2	E
26/01/2014	07:50	0	---	26/01/2014	11:05	2	E
26/01/2014	07:55	0	---	26/01/2014	11:10	3	E
26/01/2014	08:00	0	---	26/01/2014	11:15	2	E
26/01/2014	08:05	0	---	26/01/2014	11:20	2	ENE
26/01/2014	08:10	0	---	26/01/2014	11:25	2	ENE
26/01/2014	08:15	0	---	26/01/2014	11:30	2	ENE
26/01/2014	08:20	0	---	26/01/2014	11:35	4	N
26/01/2014	08:25	0	---	26/01/2014	11:40	3	N
26/01/2014	08:30	0	---	26/01/2014	11:45	3	N
26/01/2014	08:35	0	---	26/01/2014	11:50	2	N
26/01/2014	08:40	0	---	26/01/2014	11:55	2	NNE
26/01/2014	08:45	0	---	26/01/2014	12:00	4	N
26/01/2014	08:50	0	---	26/01/2014	12:05	4	N
26/01/2014	08:55	0	---	26/01/2014	12:10	3	N
26/01/2014	09:00	0	---	26/01/2014	12:15	4	N
26/01/2014	09:05	0	---	26/01/2014	12:20	3	N
26/01/2014	09:10	0	---	26/01/2014	12:25	4	N
26/01/2014	09:15	0	---	26/01/2014	12:30	5	N
26/01/2014	09:20	0	---	26/01/2014	12:35	5	N
26/01/2014	09:25	0	---	26/01/2014	12:40	4	N
26/01/2014	09:30	0	---	26/01/2014	12:45	5	N
26/01/2014	09:35	0	ENE	26/01/2014	12:50	4	N
26/01/2014	09:40	0	ENE	26/01/2014	12:55	4	NNE
26/01/2014	09:45	1	E	26/01/2014	13:00	3	N
26/01/2014	09:50	1	E	26/01/2014	13:05	4	N
26/01/2014	09:55	1	E	26/01/2014	13:10	4	N
26/01/2014	10:00	0	E	26/01/2014	13:15	4	N
26/01/2014	10:05	0	---	26/01/2014	13:20	3	NNW
26/01/2014	10:10	0	---	26/01/2014	13:25	4	NNW
26/01/2014	10:15	0	---	26/01/2014	13:30	5	N
26/01/2014	10:20	0	---	26/01/2014	13:35	4	N
26/01/2014	10:25	0	---	26/01/2014	13:40	4	N

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date	Time	Wind Speed (mph)	Wind Direction	Date	Time	Wind Speed (mph)	Wind Direction
26/01/2014	13:45	5	N	26/01/2014	17:00	7	SSE
26/01/2014	13:50	4	N	26/01/2014	17:05	6	SSE
26/01/2014	13:55	5	N	26/01/2014	17:10	6	SSE
26/01/2014	14:00	4	N	26/01/2014	17:15	6	SSE
26/01/2014	14:05	5	N	26/01/2014	17:20	7	SSE
26/01/2014	14:10	5	N	26/01/2014	17:25	9	SE
26/01/2014	14:15	4	N	26/01/2014	17:30	8	SSE
26/01/2014	14:20	6	NNW	26/01/2014	17:35	8	SE
26/01/2014	14:25	6	NNW	26/01/2014	17:40	7	SSE
26/01/2014	14:30	4	N	26/01/2014	17:45	8	SSE
26/01/2014	14:35	5	N	26/01/2014	17:50	8	SE
26/01/2014	14:40	5	NNE	26/01/2014	17:55	8	SE
26/01/2014	14:45	4	N	26/01/2014	18:00	8	SSE
26/01/2014	14:50	3	N	26/01/2014	18:05	9	SSE
26/01/2014	14:55	4	NNE	26/01/2014	18:10	8	SE
26/01/2014	15:00	3	NNE	26/01/2014	18:15	8	SSE
26/01/2014	15:05	4	SE	26/01/2014	18:20	7	SE
26/01/2014	15:10	10	SE	26/01/2014	18:25	7	SSE
26/01/2014	15:15	10	SE	26/01/2014	18:30	8	SSE
26/01/2014	15:20	7	SE	26/01/2014	18:35	8	SE
26/01/2014	15:25	5	SE	26/01/2014	18:40	7	SSE
26/01/2014	15:30	6	SSE	26/01/2014	18:45	6	SSE
26/01/2014	15:35	4	SSE	26/01/2014	18:50	6	SE
26/01/2014	15:40	6	SE	26/01/2014	18:55	7	SE
26/01/2014	15:45	7	SSE	26/01/2014	19:00	6	SE
26/01/2014	15:50	3	E	26/01/2014	19:05	8	SE
26/01/2014	15:55	3	NNE	26/01/2014	19:10	6	SE
26/01/2014	16:00	4	SE	26/01/2014	19:15	6	SE
26/01/2014	16:05	5	E	26/01/2014	19:20	9	SE
26/01/2014	16:10	3	NNE	26/01/2014	19:25	5	SSE
26/01/2014	16:15	3	SSE	26/01/2014	19:30	9	SSE
26/01/2014	16:20	5	SE	26/01/2014	19:35	9	SE
26/01/2014	16:25	6	SE	26/01/2014	19:40	6	SE
26/01/2014	16:30	4	SE	26/01/2014	19:45	8	SE
26/01/2014	16:35	5	ENE	26/01/2014	19:50	7	SE
26/01/2014	16:40	7	SE	26/01/2014	19:55	7	SSE
26/01/2014	16:45	7	ESE	26/01/2014	20:00	8	SE
26/01/2014	16:50	6	SE	26/01/2014	20:05	8	SE
26/01/2014	16:55	9	SSE	26/01/2014	20:10	6	SE

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date	Time	Wind Speed (mph)	Wind Direction	Date	Time	Wind Speed (mph)	Wind Direction
26/01/2014	20:15	6	E	26/01/2014	23:30	5	SE
26/01/2014	20:20	9	SSE	26/01/2014	23:35	3	ENE
26/01/2014	20:25	7	SE	26/01/2014	23:40	4	NNE
26/01/2014	20:30	8	SE	26/01/2014	23:45	5	N
26/01/2014	20:35	5	E	26/01/2014	23:50	3	N
26/01/2014	20:40	7	SE	26/01/2014	23:55	4	NNE
26/01/2014	20:45	6	E	27/01/2014	00:00	3	NNE
26/01/2014	20:50	6	ESE	27/01/2014	00:05	4	NNE
26/01/2014	20:55	7	SE	27/01/2014	00:10	4	NNE
26/01/2014	21:00	7	SE	27/01/2014	00:15	4	N
26/01/2014	21:05	14	SE	27/01/2014	00:20	4	NE
26/01/2014	21:10	8	SE	27/01/2014	00:25	5	N
26/01/2014	21:15	8	E	27/01/2014	00:30	4	ENE
26/01/2014	21:20	6	SE	27/01/2014	00:35	4	NNW
26/01/2014	21:25	9	SE	27/01/2014	00:40	5	NE
26/01/2014	21:30	8	SE	27/01/2014	00:45	4	NE
26/01/2014	21:35	6	E	27/01/2014	00:50	3	NE
26/01/2014	21:40	8	SE	27/01/2014	00:55	5	NE
26/01/2014	21:45	7	ESE	27/01/2014	01:00	5	N
26/01/2014	21:50	6	E	27/01/2014	01:05	4	N
26/01/2014	21:55	5	ESE	27/01/2014	01:10	5	N
26/01/2014	22:00	6	ESE	27/01/2014	01:15	5	ESE
26/01/2014	22:05	5	ENE	27/01/2014	01:20	4	N
26/01/2014	22:10	6	E	27/01/2014	01:25	5	ENE
26/01/2014	22:15	5	NE	27/01/2014	01:30	6	N
26/01/2014	22:20	5	NE	27/01/2014	01:35	5	NNW
26/01/2014	22:25	6	NNW	27/01/2014	01:40	5	NNW
26/01/2014	22:30	5	SSE	27/01/2014	01:45	5	N
26/01/2014	22:35	4	ENE	27/01/2014	01:50	5	ENE
26/01/2014	22:40	5	NNE	27/01/2014	01:55	4	NE
26/01/2014	22:45	6	NNE	27/01/2014	02:00	5	E
26/01/2014	22:50	5	NNW	27/01/2014	02:05	5	ENE
26/01/2014	22:55	3	ENE	27/01/2014	02:10	3	N
26/01/2014	23:00	5	ENE	27/01/2014	02:15	4	E
26/01/2014	23:05	4	NE	27/01/2014	02:20	5	NNE
26/01/2014	23:10	4	NNE	27/01/2014	02:25	5	N
26/01/2014	23:15	3	ENE	27/01/2014	02:30	4	N
26/01/2014	23:20	5	NE	27/01/2014	02:35	4	ENE
26/01/2014	23:25	5	NNW	27/01/2014	02:40	5	SE

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date	Time	Wind Speed (mph)	Wind Direction	Date	Time	Wind Speed (mph)	Wind Direction
27/01/2014	02:45	5	ESE	27/01/2014	06:00	5	E
27/01/2014	02:50	4	ENE	27/01/2014	06:05	3	NNE
27/01/2014	02:55	2	NNE	27/01/2014	06:10	2	NE
27/01/2014	03:00	4	ESE	27/01/2014	06:15	3	NE
27/01/2014	03:05	4	N	27/01/2014	06:20	5	ESE
27/01/2014	03:10	4	SE	27/01/2014	06:25	3	E
27/01/2014	03:15	3	SE	27/01/2014	06:30	4	NNE
27/01/2014	03:20	4	ESE	27/01/2014	06:35	6	NNW
27/01/2014	03:25	5	SSE	27/01/2014	06:40	4	S
27/01/2014	03:30	3	SSE	27/01/2014	06:45	5	SE
27/01/2014	03:35	3	NNE	27/01/2014	06:50	4	SE
27/01/2014	03:40	4	E	27/01/2014	06:55	6	SSE
27/01/2014	03:45	3	ENE	27/01/2014	07:00	2	SE
27/01/2014	03:50	3	ESE	27/01/2014	07:05	3	ESE
27/01/2014	03:55	3	NNE	27/01/2014	07:10	4	ENE
27/01/2014	04:00	4	NNW	27/01/2014	07:15	4	ENE
27/01/2014	04:05	4	NW	27/01/2014	07:20	5	NE
27/01/2014	04:10	4	NNW	27/01/2014	07:25	6	NE
27/01/2014	04:15	6	NE	27/01/2014	07:30	5	E
27/01/2014	04:20	3	NE	27/01/2014	07:35	4	ENE
27/01/2014	04:25	4	N	27/01/2014	07:40	5	NNE
27/01/2014	04:30	3	NNE	27/01/2014	07:45	3	NE
27/01/2014	04:35	5	NE	27/01/2014	07:50	4	NNE
27/01/2014	04:40	4	E	27/01/2014	07:55	2	NNE
27/01/2014	04:45	3	ENE	27/01/2014	08:00	0	ESE
27/01/2014	04:50	4	E	27/01/2014	08:05	4	ENE
27/01/2014	04:55	6	SE	27/01/2014	08:10	3	ESE
27/01/2014	05:00	8	SSE	27/01/2014	08:15	3	S
27/01/2014	05:05	8	SSE	27/01/2014	08:20	5	SSE
27/01/2014	05:10	11	SSE	27/01/2014	08:25	6	SE
27/01/2014	05:15	7	SSE	27/01/2014	08:30	7	SE
27/01/2014	05:20	4	SSE	27/01/2014	08:35	5	SE
27/01/2014	05:25	4	ESE	27/01/2014	08:40	6	SSE
27/01/2014	05:30	6	SSE	27/01/2014	08:45	8	SSE
27/01/2014	05:35	3	S	27/01/2014	08:50	6	SSE
27/01/2014	05:40	2	NE	27/01/2014	08:55	10	SE
27/01/2014	05:45	3	SSE	27/01/2014	09:00	10	SSE
27/01/2014	05:50	5	ENE	27/01/2014	09:05	6	SSE
27/01/2014	05:55	5	SE	27/01/2014	09:10	5	SSE

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date	Time	Wind Speed (mph)	Wind Direction	Date	Time	Wind Speed (mph)	Wind Direction
27/01/2014	09:15	5	SE	28/01/2014	13:25	7	NNE
27/01/2014	09:20	7	SE	28/01/2014	13:30	6	N
27/01/2014	09:25	4	SSE	28/01/2014	13:35	7	N
27/01/2014	09:30	4	SSE	28/01/2014	13:40	6	N
27/01/2014	09:35	4	ESE	28/01/2014	13:45	6	NNW
27/01/2014	09:40	4	ESE	28/01/2014	13:50	5	N
27/01/2014	09:45	5	SE	28/01/2014	13:55	5	N
27/01/2014	09:50	5	SSE	28/01/2014	14:00	5	N
27/01/2014	09:55	6	SE	28/01/2014	14:05	5	N
27/01/2014	10:00	6	SE	28/01/2014	14:10	4	N
27/01/2014	10:05	6	SE	28/01/2014	14:15	5	N
27/01/2014	10:10	5	ESE	28/01/2014	14:20	6	N
27/01/2014	10:15	3	ESE	28/01/2014	14:25	6	N
27/01/2014	10:20	4	SE	28/01/2014	14:30	5	N
27/01/2014	10:25	2	S	28/01/2014	14:35	5	NNW
27/01/2014	10:30	4	E	28/01/2014	14:40	6	NNW
27/01/2014	10:35	3	E	28/01/2014	14:45	7	NNW
27/01/2014	10:40	2	ENE	28/01/2014	14:50	6	NNW
27/01/2014	10:45	4	ESE	28/01/2014	14:55	6	NNW
27/01/2014	10:50	3	ENE	28/01/2014	15:00	5	NNW
27/01/2014	10:55	3	ENE	28/01/2014	15:05	6	N
27/01/2014	11:00	2	ENE	28/01/2014	15:10	6	NNW
27/01/2014	11:05	2	E	28/01/2014	15:15	7	NNW
27/01/2014	11:10	4	SE	28/01/2014	15:20	7	NNW
27/01/2014	11:15	5	SE	28/01/2014	15:25	6	NNW
27/01/2014	11:20	3	E	28/01/2014	15:30	5	NNW
27/01/2014	11:25	5	SE	28/01/2014	15:35	6	NNW
27/01/2014	11:30	4	SE	28/01/2014	15:40	6	NNW
27/01/2014	11:35	7	SSE	28/01/2014	15:45	6	NNW
27/01/2014	11:40	6	SE	28/01/2014	15:50	6	NNW
27/01/2014	11:45	6	ESE	28/01/2014	15:55	6	NNW
27/01/2014	11:50	6	SSE	28/01/2014	16:00	6	NNW
27/01/2014	11:55	6	SSE	28/01/2014	16:05	6	NNW
27/01/2014	12:00	6	SSE	28/01/2014	16:10	6	NNW
27/01/2014	12:05	6	SSE	28/01/2014	16:15	4	NNW
27/01/2014	12:10	4	SE	28/01/2014	16:20	4	NNW
27/01/2014	12:15	3	SSE	28/01/2014	16:25	3	NNW
27/01/2014	12:20	4	SE	28/01/2014	16:30	2	N
27/01/2014	12:25	3	E	28/01/2014	16:35	0	NNW

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date	Time	Wind Speed (mph)	Wind Direction	Date	Time	Wind Speed (mph)	Wind Direction
28/01/2014	16:40	1	NNW	28/01/2014	19:55	0	---
28/01/2014	16:45	1	NNW	28/01/2014	20:00	0	---
28/01/2014	16:50	3	NNW	28/01/2014	20:05	0	---
28/01/2014	16:55	2	NNW	28/01/2014	20:10	0	---
28/01/2014	17:00	2	E	28/01/2014	20:15	0	---
28/01/2014	17:05	2	ESE	28/01/2014	20:20	0	---
28/01/2014	17:10	3	ESE	28/01/2014	20:25	0	---
28/01/2014	17:15	3	SSE	28/01/2014	20:30	0	---
28/01/2014	17:20	4	SE	28/01/2014	20:35	0	---
28/01/2014	17:25	3	SE	28/01/2014	20:40	0	---
28/01/2014	17:30	3	SE	28/01/2014	20:45	0	---
28/01/2014	17:35	3	ESE	28/01/2014	20:50	0	---
28/01/2014	17:40	4	E	28/01/2014	20:55	0	---
28/01/2014	17:45	3	E	28/01/2014	21:00	0	---
28/01/2014	17:50	4	E	28/01/2014	21:05	0	---
28/01/2014	17:55	2	E	28/01/2014	21:10	0	---
28/01/2014	18:00	2	E	28/01/2014	21:15	0	---
28/01/2014	18:05	0	E	28/01/2014	21:20	0	---
28/01/2014	18:10	0	E	28/01/2014	21:25	0	---
28/01/2014	18:15	0	---	28/01/2014	21:30	2	NE
28/01/2014	18:20	0	---	28/01/2014	21:35	2	NNW
28/01/2014	18:25	0	---	28/01/2014	21:40	0	---
28/01/2014	18:30	1	NW	28/01/2014	21:45	0	N
28/01/2014	18:35	3	NW	28/01/2014	21:50	2	N
28/01/2014	18:40	2	NW	28/01/2014	21:55	3	WNW
28/01/2014	18:45	1	NW	28/01/2014	22:00	1	W
28/01/2014	18:50	0	---	28/01/2014	22:05	2	SE
28/01/2014	18:55	0	NW	28/01/2014	22:10	1	SE
28/01/2014	19:00	0	---	28/01/2014	22:15	0	S
28/01/2014	19:05	0	NW	28/01/2014	22:20	1	SE
28/01/2014	19:10	0	S	28/01/2014	22:25	2	SSE
28/01/2014	19:15	0	---	28/01/2014	22:30	0	S
28/01/2014	19:20	0	---	28/01/2014	22:35	0	S
28/01/2014	19:25	0	---	28/01/2014	22:40	0	---
28/01/2014	19:30	0	---	28/01/2014	22:45	0	---
28/01/2014	19:35	0	---	28/01/2014	22:50	1	WNW
28/01/2014	19:40	0	---	28/01/2014	22:55	1	WNW
28/01/2014	19:45	0	---	28/01/2014	23:00	0	NNW
28/01/2014	19:50	0	---	28/01/2014	23:05	0	---

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date	Time	Wind Speed (mph)	Wind Direction	Date	Time	Wind Speed (mph)	Wind Direction
28/01/2014	23:10	0	---	29/01/2014	02:25	0	---
28/01/2014	23:15	0	---	29/01/2014	02:30	0	---
28/01/2014	23:20	0	---	29/01/2014	02:35	0	---
28/01/2014	23:25	0	---	29/01/2014	02:40	0	---
28/01/2014	23:30	0	---	29/01/2014	02:45	0	---
28/01/2014	23:35	0	---	29/01/2014	02:50	0	---
28/01/2014	23:40	0	---	29/01/2014	02:55	0	---
28/01/2014	23:45	0	---	29/01/2014	03:00	0	---
28/01/2014	23:50	0	---	29/01/2014	03:05	0	---
28/01/2014	23:55	0	---	29/01/2014	03:10	0	---
29/01/2014	00:00	0	---	29/01/2014	03:15	0	---
29/01/2014	00:05	0	---	29/01/2014	03:20	0	---
29/01/2014	00:10	0	---	29/01/2014	03:25	0	---
29/01/2014	00:15	2	SSW	29/01/2014	03:30	0	---
29/01/2014	00:20	3	SSW	29/01/2014	03:35	0	---
29/01/2014	00:25	2	SSW	29/01/2014	03:40	0	---
29/01/2014	00:30	2	SSW	29/01/2014	03:45	0	---
29/01/2014	00:35	1	SSW	29/01/2014	03:50	2	NNW
29/01/2014	00:40	0	---	29/01/2014	03:55	2	NW
29/01/2014	00:45	0	---	29/01/2014	04:00	0	NW
29/01/2014	00:50	0	---	29/01/2014	04:05	1	WSW
29/01/2014	00:55	0	---	29/01/2014	04:10	2	SSW
29/01/2014	01:00	0	---	29/01/2014	04:15	3	S
29/01/2014	01:05	0	---	29/01/2014	04:20	1	S
29/01/2014	01:10	0	---	29/01/2014	04:25	0	S
29/01/2014	01:15	0	---	29/01/2014	04:30	0	---
29/01/2014	01:20	0	---	29/01/2014	04:35	0	---
29/01/2014	01:25	0	---	29/01/2014	04:40	0	---
29/01/2014	01:30	0	---	29/01/2014	04:45	0	---
29/01/2014	01:35	0	---	29/01/2014	04:50	0	---
29/01/2014	01:40	0	S	29/01/2014	04:55	0	---
29/01/2014	01:45	1	S	29/01/2014	05:00	0	---
29/01/2014	01:50	1	S	29/01/2014	05:05	0	---
29/01/2014	01:55	0	S	29/01/2014	05:10	0	---
29/01/2014	02:00	0	---	29/01/2014	05:15	0	---
29/01/2014	02:05	0	---	29/01/2014	05:20	0	---
29/01/2014	02:10	0	---	29/01/2014	05:25	0	---
29/01/2014	02:15	0	---	29/01/2014	05:30	0	---
29/01/2014	02:20	0	---	29/01/2014	05:35	0	---

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date	Time	Wind Speed (mph)	Wind Direction	Date	Time	Wind Speed (mph)	Wind Direction
29/01/2014	05:40	0	---	29/01/2014	08:55	2	N
29/01/2014	05:45	0	---	29/01/2014	09:00	2	NE
29/01/2014	05:50	0	---	29/01/2014	09:05	3	NE
29/01/2014	05:55	0	---	29/01/2014	09:10	1	SSE
29/01/2014	06:00	0	---	29/01/2014	09:15	1	WNW
29/01/2014	06:05	0	---	29/01/2014	09:20	2	NNW
29/01/2014	06:10	0	---	29/01/2014	09:25	1	N
29/01/2014	06:15	0	---	29/01/2014	09:30	1	NNW
29/01/2014	06:20	0	---	29/01/2014	09:35	4	S
29/01/2014	06:25	0	---	29/01/2014	09:40	4	SSE
29/01/2014	06:30	0	---	29/01/2014	09:45	5	SSE
29/01/2014	06:35	0	S	29/01/2014	09:50	4	SSE
29/01/2014	06:40	1	WNW	29/01/2014	09:55	6	SE
29/01/2014	06:45	2	WNW	29/01/2014	10:00	4	SSE
29/01/2014	06:50	2	W	29/01/2014	10:05	5	SSE
29/01/2014	06:55	2	WNW	29/01/2014	10:10	6	SSE
29/01/2014	07:00	2	NW	29/01/2014	10:15	10	SSE
29/01/2014	07:05	1	NW	29/01/2014	10:20	7	SSE
29/01/2014	07:10	0	WSW	29/01/2014	10:25	7	SSE
29/01/2014	07:15	0	WSW	29/01/2014	10:30	7	SE
29/01/2014	07:20	2	WNW	29/01/2014	10:35	7	ESE
29/01/2014	07:25	1	WNW	29/01/2014	10:40	6	SE
29/01/2014	07:30	2	NW	29/01/2014	10:45	6	SE
29/01/2014	07:35	2	WNW	29/01/2014	10:50	6	ESE
29/01/2014	07:40	3	WNW	29/01/2014	10:55	8	SE
29/01/2014	07:45	1	WNW	29/01/2014	11:00	8	SSE
29/01/2014	07:50	2	NW	29/01/2014	11:05	9	SSE
29/01/2014	07:55	2	W	29/01/2014	11:10	9	SSE
29/01/2014	08:00	2	NW	29/01/2014	11:15	10	SSE
29/01/2014	08:05	1	WNW	29/01/2014	11:20	9	SSE
29/01/2014	08:10	2	WNW	29/01/2014	11:25	7	SSE
29/01/2014	08:15	1	WNW	29/01/2014	11:30	6	SSE
29/01/2014	08:20	1	WNW	29/01/2014	11:35	6	SE
29/01/2014	08:25	0	WNW	29/01/2014	11:40	8	SE
29/01/2014	08:30	0	WNW	29/01/2014	11:45	7	SSE
29/01/2014	08:35	1	WNW	29/01/2014	11:50	6	SSE
29/01/2014	08:40	3	NNE	29/01/2014	11:55	6	SE
29/01/2014	08:45	2	ENE	29/01/2014	12:00	8	SE
29/01/2014	08:50	3	NW	29/01/2014	12:05	5	ESE

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date	Time	Wind Speed (mph)	Wind Direction	Date	Time	Wind Speed (mph)	Wind Direction
29/01/2014	12:10	4	SE	29/01/2014	15:25	1	N
29/01/2014	12:15	6	SE	29/01/2014	15:30	2	N
29/01/2014	12:20	6	ESE	29/01/2014	15:35	0	N
29/01/2014	12:25	5	E	29/01/2014	15:40	1	N
29/01/2014	12:30	6	ESE	29/01/2014	15:45	1	E
29/01/2014	12:35	6	SE	29/01/2014	15:50	4	SSE
29/01/2014	12:40	6	ESE	29/01/2014	15:55	2	ESE
29/01/2014	12:45	5	SE	29/01/2014	16:00	3	SE
29/01/2014	12:50	5	SE	29/01/2014	16:05	3	ESE
29/01/2014	12:55	4	SE	29/01/2014	16:10	4	SSE
29/01/2014	13:00	5	ESE	29/01/2014	16:15	5	SE
29/01/2014	13:05	7	E	29/01/2014	16:20	4	SE
29/01/2014	13:10	7	ESE	29/01/2014	16:25	4	SSE
29/01/2014	13:15	7	ESE	29/01/2014	16:30	4	SSE
29/01/2014	13:20	5	ESE	29/01/2014	16:35	3	SE
29/01/2014	13:25	4	SE	29/01/2014	16:40	4	SSE
29/01/2014	13:30	5	ESE	29/01/2014	16:45	4	SSE
29/01/2014	13:35	4	ESE	29/01/2014	16:50	4	SE
29/01/2014	13:40	8	NE	29/01/2014	16:55	4	SE
29/01/2014	13:45	6	N	29/01/2014	17:00	3	SE
29/01/2014	13:50	7	N	29/01/2014	17:05	4	SSE
29/01/2014	13:55	6	NNE	29/01/2014	17:10	4	SE
29/01/2014	14:00	6	NNE	29/01/2014	17:15	2	SE
29/01/2014	14:05	6	N	29/01/2014	17:20	3	SSE
29/01/2014	14:10	2	NNE	29/01/2014	17:25	2	SSE
29/01/2014	14:15	4	NE	29/01/2014	17:30	1	SE
29/01/2014	14:20	5	NE	29/01/2014	17:35	2	NNE
29/01/2014	14:25	3	E	29/01/2014	17:40	3	NE
29/01/2014	14:30	4	ENE	29/01/2014	17:45	3	NNE
29/01/2014	14:35	3	ENE	29/01/2014	17:50	3	N
29/01/2014	14:40	4	E	29/01/2014	17:55	3	NNW
29/01/2014	14:45	5	E	29/01/2014	18:00	2	N
29/01/2014	14:50	4	E	29/01/2014	18:05	1	NNW
29/01/2014	14:55	3	E	29/01/2014	18:10	1	NE
29/01/2014	15:00	3	E	29/01/2014	18:15	2	N
29/01/2014	15:05	2	E	29/01/2014	18:20	1	N
29/01/2014	15:10	3	E	29/01/2014	18:25	1	N
29/01/2014	15:15	3	ENE	29/01/2014	18:30	0	---
29/01/2014	15:20	2	NE	29/01/2014	18:35	0	NNW

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date	Time	Wind Speed (mph)	Wind Direction	Date	Time	Wind Speed (mph)	Wind Direction
29/01/2014	18:40	3	N	29/01/2014	21:55	0	---
29/01/2014	18:45	1	NNW	29/01/2014	22:00	0	---
29/01/2014	18:50	0	NNW	29/01/2014	22:05	0	---
29/01/2014	18:55	0	---	29/01/2014	22:10	0	---
29/01/2014	19:00	1	NW	29/01/2014	22:15	0	---
29/01/2014	19:05	1	NW	29/01/2014	22:20	0	---
29/01/2014	19:10	3	NW	29/01/2014	22:25	0	---
29/01/2014	19:15	1	NW	29/01/2014	22:30	0	---
29/01/2014	19:20	0	---	29/01/2014	22:35	0	---
29/01/2014	19:25	0	NW	29/01/2014	22:40	0	---
29/01/2014	19:30	0	NNE	29/01/2014	22:45	0	---
29/01/2014	19:35	1	NNE	29/01/2014	22:50	0	---
29/01/2014	19:40	1	WNW	29/01/2014	22:55	0	---
29/01/2014	19:45	0	WNW	29/01/2014	23:00	0	---
29/01/2014	19:50	0	---	29/01/2014	23:05	0	---
29/01/2014	19:55	0	---	29/01/2014	23:10	0	---
29/01/2014	20:00	0	---	29/01/2014	23:15	0	---
29/01/2014	20:05	0	---	29/01/2014	23:20	0	---
29/01/2014	20:10	0	---	29/01/2014	23:25	0	---
29/01/2014	20:15	0	WNW	29/01/2014	23:30	0	---
29/01/2014	20:20	0	---	29/01/2014	23:35	0	---
29/01/2014	20:25	0	---	29/01/2014	23:40	0	---
29/01/2014	20:30	0	---	29/01/2014	23:45	0	---
29/01/2014	20:35	0	---	29/01/2014	23:50	0	---
29/01/2014	20:40	0	---	29/01/2014	23:55	0	---
29/01/2014	20:45	0	---	30/01/2014	00:00	0	---
29/01/2014	20:50	0	---	30/01/2014	00:05	0	---
29/01/2014	20:55	0	---	30/01/2014	00:10	0	---
29/01/2014	21:00	0	---	30/01/2014	00:15	0	---
29/01/2014	21:05	0	---	30/01/2014	00:20	0	---
29/01/2014	21:10	0	---	30/01/2014	00:25	0	---
29/01/2014	21:15	0	---	30/01/2014	00:30	0	---
29/01/2014	21:20	0	---	30/01/2014	00:35	0	---
29/01/2014	21:25	0	---	30/01/2014	00:40	0	---
29/01/2014	21:30	0	---	30/01/2014	00:45	0	---
29/01/2014	21:35	0	---	30/01/2014	00:50	0	---
29/01/2014	21:40	0	---	30/01/2014	00:55	0	---
29/01/2014	21:45	0	---	30/01/2014	01:00	0	---
29/01/2014	21:50	0	---	30/01/2014	01:05	0	---

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date	Time	Wind Speed (mph)	Wind Direction	Date	Time	Wind Speed (mph)	Wind Direction
30/01/2014	01:10	0	---	30/01/2014	04:25	0	---
30/01/2014	01:15	0	---	30/01/2014	04:30	0	---
30/01/2014	01:20	0	---	30/01/2014	04:35	0	---
30/01/2014	01:25	0	---	30/01/2014	04:40	0	---
30/01/2014	01:30	0	---	30/01/2014	04:45	0	---
30/01/2014	01:35	0	---	30/01/2014	04:50	0	---
30/01/2014	01:40	0	---	30/01/2014	04:55	0	---
30/01/2014	01:45	0	---	30/01/2014	05:00	0	---
30/01/2014	01:50	0	---	30/01/2014	05:05	0	---
30/01/2014	01:55	0	---	30/01/2014	05:10	0	---
30/01/2014	02:00	0	---	30/01/2014	05:15	0	---
30/01/2014	02:05	0	---	30/01/2014	05:20	0	---
30/01/2014	02:10	0	---	30/01/2014	05:25	0	---
30/01/2014	02:15	0	---	30/01/2014	05:30	0	---
30/01/2014	02:20	1	WNW	30/01/2014	05:35	0	---
30/01/2014	02:25	1	WNW	30/01/2014	05:40	0	---
30/01/2014	02:30	1	WNW	30/01/2014	05:45	0	---
30/01/2014	02:35	0	---	30/01/2014	05:50	0	---
30/01/2014	02:40	0	---	30/01/2014	05:55	1	W
30/01/2014	02:45	0	---	30/01/2014	06:00	1	W
30/01/2014	02:50	0	---	30/01/2014	06:05	1	W
30/01/2014	02:55	1	WNW	30/01/2014	06:10	1	W
30/01/2014	03:00	0	WNW	30/01/2014	06:15	1	W
30/01/2014	03:05	2	WNW	30/01/2014	06:20	0	W
30/01/2014	03:10	1	WNW	30/01/2014	06:25	2	W
30/01/2014	03:15	2	WNW	30/01/2014	06:30	3	NW
30/01/2014	03:20	1	WNW	30/01/2014	06:35	2	WNW
30/01/2014	03:25	0	---	30/01/2014	06:40	2	WNW
30/01/2014	03:30	1	NW	30/01/2014	06:45	1	NW
30/01/2014	03:35	0	NW	30/01/2014	06:50	0	W
30/01/2014	03:40	0	---	30/01/2014	06:55	1	W
30/01/2014	03:45	0	---	30/01/2014	07:00	0	WSW
30/01/2014	03:50	0	---	30/01/2014	07:05	2	WSW
30/01/2014	03:55	0	---	30/01/2014	07:10	1	W
30/01/2014	04:00	0	---	30/01/2014	07:15	1	W
30/01/2014	04:05	0	---	30/01/2014	07:20	1	W
30/01/2014	04:10	0	---	30/01/2014	07:25	0	WNW
30/01/2014	04:15	0	---	30/01/2014	07:30	0	---
30/01/2014	04:20	0	---	30/01/2014	07:35	0	---

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date	Time	Wind Speed (mph)	Wind Direction	Date	Time	Wind Speed (mph)	Wind Direction
30/01/2014	07:40	0	---	30/01/2014	10:55	0	---
30/01/2014	07:45	0	---	30/01/2014	11:00	0	---
30/01/2014	07:50	0	---	30/01/2014	11:05	0	---
30/01/2014	07:55	0	---	30/01/2014	11:10	0	---
30/01/2014	08:00	0	---	30/01/2014	11:15	0	---
30/01/2014	08:05	0	---	30/01/2014	11:20	0	ENE
30/01/2014	08:10	0	---	30/01/2014	11:25	2	ENE
30/01/2014	08:15	0	---	30/01/2014	11:30	1	E
30/01/2014	08:20	0	---	30/01/2014	11:35	3	E
30/01/2014	08:25	0	---	30/01/2014	11:40	3	E
30/01/2014	08:30	0	---	30/01/2014	11:45	2	ENE
30/01/2014	08:35	0	---	30/01/2014	11:50	3	E
30/01/2014	08:40	0	---	30/01/2014	11:55	2	E
30/01/2014	08:45	0	---	30/01/2014	12:00	1	E
30/01/2014	08:50	0	---	30/01/2014	12:05	0	E
30/01/2014	08:55	0	---	30/01/2014	12:10	0	---
30/01/2014	09:00	0	---	30/01/2014	12:15	0	---
30/01/2014	09:05	0	---	30/01/2014	12:20	0	---
30/01/2014	09:10	1	SE	30/01/2014	12:25	0	---
30/01/2014	09:15	2	SE	30/01/2014	12:30	1	E
30/01/2014	09:20	1	SE	30/01/2014	12:35	1	ENE
30/01/2014	09:25	2	SE	30/01/2014	12:40	1	ENE
30/01/2014	09:30	2	ESE	30/01/2014	12:45	1	ENE
30/01/2014	09:35	2	E	30/01/2014	12:50	1	NE
30/01/2014	09:40	1	E	30/01/2014	12:55	2	N
30/01/2014	09:45	1	E	30/01/2014	13:00	3	N
30/01/2014	09:50	0	E	30/01/2014	13:05	3	N
30/01/2014	09:55	0	---	30/01/2014	13:10	4	NNE
30/01/2014	10:00	0	---	30/01/2014	13:15	5	N
30/01/2014	10:05	0	---	30/01/2014	13:20	5	N
30/01/2014	10:10	0	---	30/01/2014	13:25	4	N
30/01/2014	10:15	0	---	30/01/2014	13:30	5	N
30/01/2014	10:20	0	---	30/01/2014	13:35	4	NNE
30/01/2014	10:25	0	---	30/01/2014	13:40	5	N
30/01/2014	10:30	0	---	30/01/2014	13:45	5	N
30/01/2014	10:35	0	---	30/01/2014	13:50	4	N
30/01/2014	10:40	0	---	30/01/2014	13:55	4	N
30/01/2014	10:45	0	---	30/01/2014	14:00	5	N
30/01/2014	10:50	0	---	30/01/2014	14:05	5	N

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date	Time	Wind Speed (mph)	Wind Direction	Date	Time	Wind Speed (mph)	Wind Direction
30/01/2014	14:10	5	N	30/01/2014	17:25	2	SSE
30/01/2014	14:15	6	N	30/01/2014	17:30	2	SE
30/01/2014	14:20	5	N	30/01/2014	17:35	2	SE
30/01/2014	14:25	5	N	30/01/2014	17:40	2	SSE
30/01/2014	14:30	4	N	30/01/2014	17:45	2	SSE
30/01/2014	14:35	4	N	30/01/2014	17:50	1	SE
30/01/2014	14:40	4	N	30/01/2014	17:55	1	SE
30/01/2014	14:45	5	N	30/01/2014	18:00	1	SSE
30/01/2014	14:50	5	N	30/01/2014	18:05	0	SSE
30/01/2014	14:55	4	N	30/01/2014	18:10	0	NE
30/01/2014	15:00	5	N	30/01/2014	18:15	0	NNE
30/01/2014	15:05	5	N	30/01/2014	18:20	0	---
30/01/2014	15:10	5	N	30/01/2014	18:25	0	---
30/01/2014	15:15	5	N	30/01/2014	18:30	0	---
30/01/2014	15:20	5	N	30/01/2014	18:35	0	---
30/01/2014	15:25	5	N	30/01/2014	18:40	0	---
30/01/2014	15:30	3	N	30/01/2014	18:45	0	---
30/01/2014	15:35	4	N	30/01/2014	18:50	0	---
30/01/2014	15:40	5	N	30/01/2014	18:55	0	---
30/01/2014	15:45	5	NNE	30/01/2014	19:00	0	---
30/01/2014	15:50	3	N	30/01/2014	19:05	0	---
30/01/2014	15:55	4	NNE	30/01/2014	19:10	0	---
30/01/2014	16:00	4	N	30/01/2014	19:15	0	---
30/01/2014	16:05	3	NNE	30/01/2014	19:20	0	---
30/01/2014	16:10	3	NNE	30/01/2014	19:25	0	---
30/01/2014	16:15	3	NNE	30/01/2014	19:30	0	---
30/01/2014	16:20	2	NNE	30/01/2014	19:35	0	---
30/01/2014	16:25	1	NNE	30/01/2014	19:40	0	---
30/01/2014	16:30	1	NNE	30/01/2014	19:45	0	---
30/01/2014	16:35	2	ENE	30/01/2014	19:50	0	---
30/01/2014	16:40	2	ESE	30/01/2014	19:55	0	---
30/01/2014	16:45	2	ENE	30/01/2014	20:00	0	---
30/01/2014	16:50	2	SE	30/01/2014	20:05	0	---
30/01/2014	16:55	3	SE	30/01/2014	20:10	0	---
30/01/2014	17:00	3	SSE	30/01/2014	20:15	0	---
30/01/2014	17:05	2	SSE	30/01/2014	20:20	0	---
30/01/2014	17:10	3	SSE	30/01/2014	20:25	0	---
30/01/2014	17:15	3	SE	30/01/2014	20:30	0	---
30/01/2014	17:20	2	SE	30/01/2014	20:35	0	---

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date	Time	Wind Speed (mph)	Wind Direction	Date	Time	Wind Speed (mph)	Wind Direction
30/01/2014	20:40	0	---	30/01/2014	23:55	0	---
30/01/2014	20:45	0	---	31/01/2014	00:00	0	---
30/01/2014	20:50	0	---	31/01/2014	00:05	0	---
30/01/2014	20:55	0	---	31/01/2014	00:10	0	---
30/01/2014	21:00	0	---	31/01/2014	00:15	0	---
30/01/2014	21:05	0	---	31/01/2014	00:20	0	---
30/01/2014	21:10	0	---	31/01/2014	00:25	0	---
30/01/2014	21:15	0	---	31/01/2014	00:30	0	---
30/01/2014	21:20	0	---	31/01/2014	00:35	0	---
30/01/2014	21:25	0	---	31/01/2014	00:40	0	---
30/01/2014	21:30	0	---	31/01/2014	00:45	0	---
30/01/2014	21:35	0	---	31/01/2014	00:50	0	---
30/01/2014	21:40	0	---	31/01/2014	00:55	0	---
30/01/2014	21:45	0	---	31/01/2014	01:00	0	---
30/01/2014	21:50	0	---	31/01/2014	01:05	0	---
30/01/2014	21:55	0	---	31/01/2014	01:10	0	---
30/01/2014	22:00	0	---	31/01/2014	01:15	0	---
30/01/2014	22:05	0	---	31/01/2014	01:20	0	---
30/01/2014	22:10	0	---	31/01/2014	01:25	0	---
30/01/2014	22:15	0	---	31/01/2014	01:30	0	---
30/01/2014	22:20	0	---	31/01/2014	01:35	0	---
30/01/2014	22:25	0	---	31/01/2014	01:40	0	---
30/01/2014	22:30	0	---	31/01/2014	01:45	0	---
30/01/2014	22:35	0	---	31/01/2014	01:50	0	---
30/01/2014	22:40	0	---	31/01/2014	01:55	0	---
30/01/2014	22:45	0	---	31/01/2014	02:00	0	---
30/01/2014	22:50	0	---	31/01/2014	02:05	0	---
30/01/2014	22:55	0	---	31/01/2014	02:10	0	---
30/01/2014	23:00	0	---	31/01/2014	02:15	0	---
30/01/2014	23:05	0	---	31/01/2014	02:20	0	---
30/01/2014	23:10	0	---	31/01/2014	02:25	0	---
30/01/2014	23:15	0	---	31/01/2014	02:30	0	---
30/01/2014	23:20	0	---	31/01/2014	02:35	0	---
30/01/2014	23:25	0	---	31/01/2014	02:40	0	---
30/01/2014	23:30	0	---	31/01/2014	02:45	0	---
30/01/2014	23:35	0	---	31/01/2014	02:50	0	---
30/01/2014	23:40	0	---	31/01/2014	02:55	0	---
30/01/2014	23:45	0	---	31/01/2014	03:00	0	---
30/01/2014	23:50	0	---	31/01/2014	03:05	0	---

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date	Time	Wind Speed (mph)	Wind Direction	Date	Time	Wind Speed (mph)	Wind Direction
31/01/2014	03:10	0	---	31/01/2014	06:25	0	---
31/01/2014	03:15	0	---	31/01/2014	06:30	0	---
31/01/2014	03:20	0	---	31/01/2014	06:35	0	---
31/01/2014	03:25	0	---	31/01/2014	06:40	0	---
31/01/2014	03:30	0	---	31/01/2014	06:45	0	---
31/01/2014	03:35	0	---	31/01/2014	06:50	0	---
31/01/2014	03:40	0	---	31/01/2014	06:55	0	---
31/01/2014	03:45	0	---	31/01/2014	07:00	0	---
31/01/2014	03:50	0	---	31/01/2014	07:05	0	---
31/01/2014	03:55	0	---	31/01/2014	07:10	0	---
31/01/2014	04:00	0	---	31/01/2014	07:15	0	---
31/01/2014	04:05	0	---	31/01/2014	07:20	0	---
31/01/2014	04:10	0	---	31/01/2014	07:25	0	---
31/01/2014	04:15	0	---	31/01/2014	07:30	0	---
31/01/2014	04:20	0	---	31/01/2014	07:35	0	---
31/01/2014	04:25	0	---	31/01/2014	07:40	0	---
31/01/2014	04:30	0	---	31/01/2014	07:45	0	---
31/01/2014	04:35	0	---	31/01/2014	07:50	0	---
31/01/2014	04:40	0	---	31/01/2014	07:55	0	---
31/01/2014	04:45	0	---	31/01/2014	08:00	0	---
31/01/2014	04:50	0	---	31/01/2014	08:05	0	---
31/01/2014	04:55	0	---	31/01/2014	08:10	0	---
31/01/2014	05:00	0	---	31/01/2014	08:15	0	---
31/01/2014	05:05	0	---	31/01/2014	08:20	0	---
31/01/2014	05:10	0	---	31/01/2014	08:25	0	---
31/01/2014	05:15	0	---	31/01/2014	08:30	0	---
31/01/2014	05:20	0	---	31/01/2014	08:35	0	---
31/01/2014	05:25	0	---	31/01/2014	08:40	0	---
31/01/2014	05:30	0	---	31/01/2014	08:45	0	---
31/01/2014	05:35	0	---	31/01/2014	08:50	0	---
31/01/2014	05:40	0	---	31/01/2014	08:55	0	---
31/01/2014	05:45	0	---	31/01/2014	09:00	0	---
31/01/2014	05:50	0	---	31/01/2014	09:05	0	---
31/01/2014	05:55	0	---	31/01/2014	09:10	0	---
31/01/2014	06:00	0	---	31/01/2014	09:15	0	---
31/01/2014	06:05	0	---	31/01/2014	09:20	0	---
31/01/2014	06:10	0	---	31/01/2014	09:25	0	---
31/01/2014	06:15	0	---	31/01/2014	09:30	0	---
31/01/2014	06:20	0	---	31/01/2014	09:35	0	---

Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date	Time	Wind Speed (mph)	Wind Direction	Date	Time	Wind Speed (mph)	Wind Direction
31/01/2014	09:40	0	---	31/01/2014	12:55	1	NNE
31/01/2014	09:45	0	---	31/01/2014	13:00	2	ENE
31/01/2014	09:50	0	---	31/01/2014	13:05	1	ENE
31/01/2014	09:55	0	---	31/01/2014	13:10	0	---
31/01/2014	10:00	0	---	31/01/2014	13:15	2	NNE
31/01/2014	10:05	0	---	31/01/2014	13:20	2	ENE
31/01/2014	10:10	0	---	31/01/2014	13:25	3	E
31/01/2014	10:15	0	---	31/01/2014	13:30	4	ENE
31/01/2014	10:20	1	ENE	31/01/2014	13:35	2	NE
31/01/2014	10:25	1	ENE	31/01/2014	13:40	3	ENE
31/01/2014	10:30	2	ENE	31/01/2014	13:45	2	ENE
31/01/2014	10:35	2	E	31/01/2014	13:50	2	NE
31/01/2014	10:40	2	E	31/01/2014	13:55	3	ENE
31/01/2014	10:45	2	E	31/01/2014	14:00	3	E
31/01/2014	10:50	3	E	31/01/2014	14:05	2	ENE
31/01/2014	10:55	2	E	31/01/2014	14:10	1	ENE
31/01/2014	11:00	2	ENE	31/01/2014	14:15	0	ESE
31/01/2014	11:05	1	E	31/01/2014	14:20	0	---
31/01/2014	11:10	2	ESE	31/01/2014	14:25	0	ENE
31/01/2014	11:15	2	E	31/01/2014	14:30	2	ENE
31/01/2014	11:20	2	E	31/01/2014	14:35	1	ENE
31/01/2014	11:25	2	E	31/01/2014	14:40	2	NE
31/01/2014	11:30	2	E	31/01/2014	14:45	3	N
31/01/2014	11:35	1	NE	31/01/2014	14:50	4	N
31/01/2014	11:40	1	NE	31/01/2014	14:55	4	NNW
31/01/2014	11:45	0	NNE	31/01/2014	15:00	3	N
31/01/2014	11:50	0	---	31/01/2014	15:05	2	N
31/01/2014	11:55	0	---	31/01/2014	15:10	1	N
31/01/2014	12:00	2	N	31/01/2014	15:15	1	N
31/01/2014	12:05	3	NNE	31/01/2014	15:20	1	N
31/01/2014	12:10	4	NNE	31/01/2014	15:25	4	NW
31/01/2014	12:15	3	NNE	31/01/2014	15:30	4	N
31/01/2014	12:20	4	NNE	31/01/2014	15:35	5	N
31/01/2014	12:25	3	NNE	31/01/2014	15:40	5	NNW
31/01/2014	12:30	3	NNE	31/01/2014	15:45	2	NNW
31/01/2014	12:35	2	N	31/01/2014	15:50	2	E
31/01/2014	12:40	1	NNE	31/01/2014	15:55	2	E
31/01/2014	12:45	2	ENE	31/01/2014	16:00	3	NE
31/01/2014	12:50	2	NE	31/01/2014	16:05	2	NNE

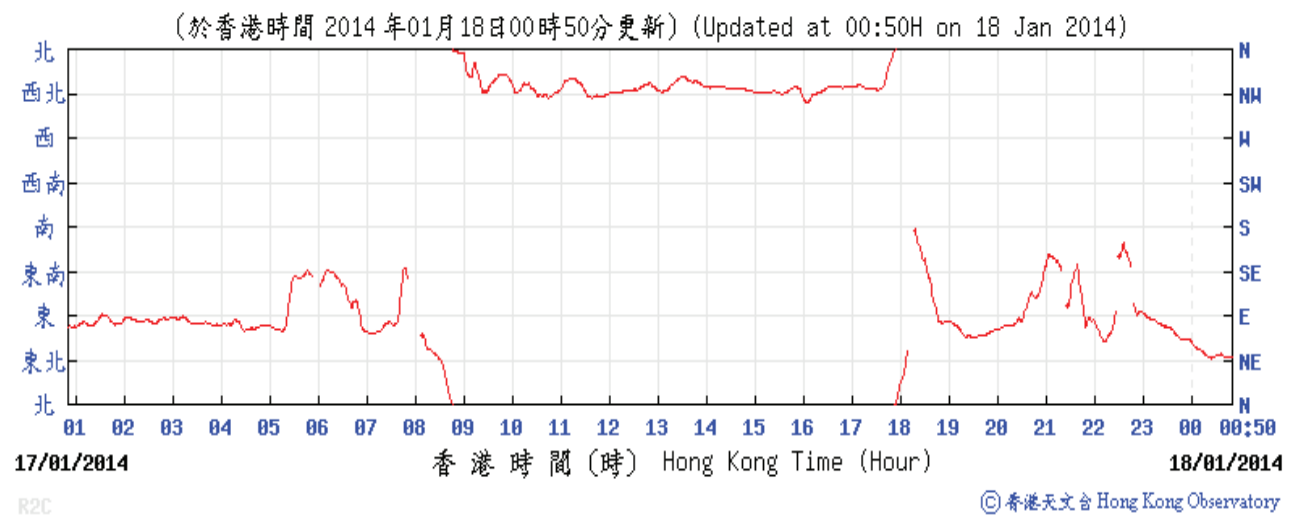
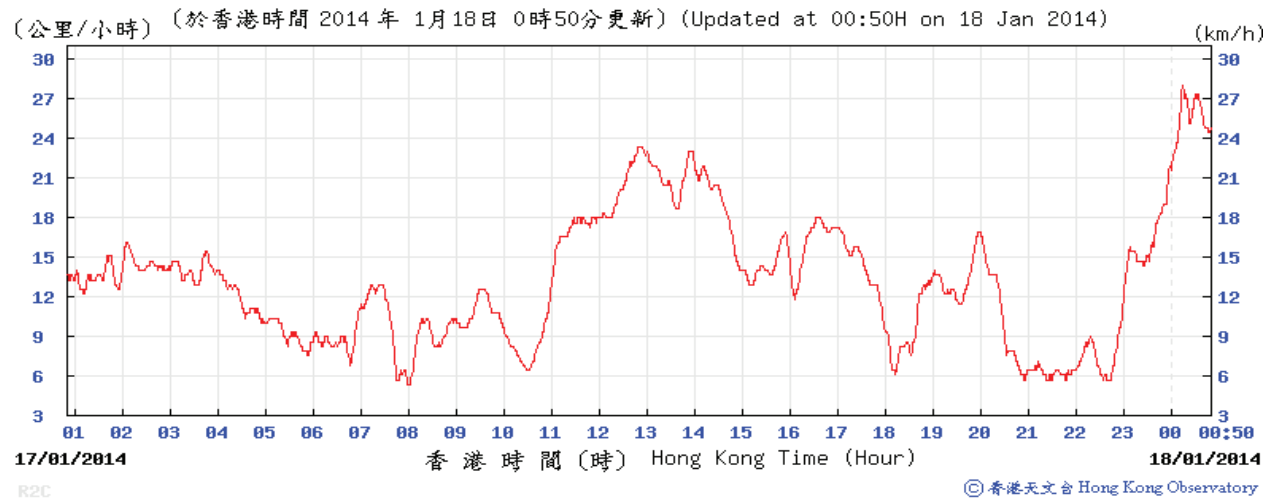
Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date	Time	Wind Speed (mph)	Wind Direction	Date	Time	Wind Speed (mph)	Wind Direction
31/01/2014	16:10	0	NNE	31/01/2014	19:25	2	W
31/01/2014	16:15	2	NNE	31/01/2014	19:30	4	W
31/01/2014	16:20	1	NE	31/01/2014	19:35	3	S
31/01/2014	16:25	1	NNW	31/01/2014	19:40	4	S
31/01/2014	16:30	2	NNE	31/01/2014	19:45	6	SSW
31/01/2014	16:35	3	NNW	31/01/2014	19:50	4	SE
31/01/2014	16:40	3	NNW	31/01/2014	19:55	5	SSE
31/01/2014	16:45	1	W	31/01/2014	20:00	3	SSE
31/01/2014	16:50	3	N	31/01/2014	20:05	4	W
31/01/2014	16:55	3	NNE	31/01/2014	20:10	3	SSE
31/01/2014	17:00	3	SE	31/01/2014	20:15	4	SE
31/01/2014	17:05	5	NW	31/01/2014	20:20	3	SE
31/01/2014	17:10	4	WNW	31/01/2014	20:25	2	NNE
31/01/2014	17:15	2	WNW	31/01/2014	20:30	4	SSE
31/01/2014	17:20	2	WNW	31/01/2014	20:35	1	S
31/01/2014	17:25	3	NW	31/01/2014	20:40	2	ENE
31/01/2014	17:30	3	NNW	31/01/2014	20:45	2	S
31/01/2014	17:35	1	N	31/01/2014	20:50	3	SSW
31/01/2014	17:40	0	---	31/01/2014	20:55	3	SSE
31/01/2014	17:45	0	---	31/01/2014	21:00	2	SE
31/01/2014	17:50	1	NW	31/01/2014	21:05	4	S
31/01/2014	17:55	1	NNW	31/01/2014	21:10	3	SSE
31/01/2014	18:00	1	NNW	31/01/2014	21:15	4	SW
31/01/2014	18:05	2	NW	31/01/2014	21:20	4	SSW
31/01/2014	18:10	2	NNW	31/01/2014	21:25	3	W
31/01/2014	18:15	2	SE	31/01/2014	21:30	4	SSE
31/01/2014	18:20	3	SSE	31/01/2014	21:35	4	SW
31/01/2014	18:25	2	S	31/01/2014	21:40	3	WSW
31/01/2014	18:30	3	W	31/01/2014	21:45	4	S
31/01/2014	18:35	3	S	31/01/2014	21:50	3	SSE
31/01/2014	18:40	3	S	31/01/2014	21:55	3	SSW
31/01/2014	18:45	2	WNW	31/01/2014	22:00	2	SSW
31/01/2014	18:50	2	WNW	31/01/2014	22:05	3	S
31/01/2014	18:55	3	WNW	31/01/2014	22:10	2	NW
31/01/2014	19:00	4	WNW	31/01/2014	22:15	2	WNW
31/01/2014	19:05	3	W	31/01/2014	22:20	4	W
31/01/2014	19:10	2	W	31/01/2014	22:25	2	WNW
31/01/2014	19:15	4	W	31/01/2014	22:30	3	SSW
31/01/2014	19:20	2	SSW	31/01/2014	22:35	3	WNW

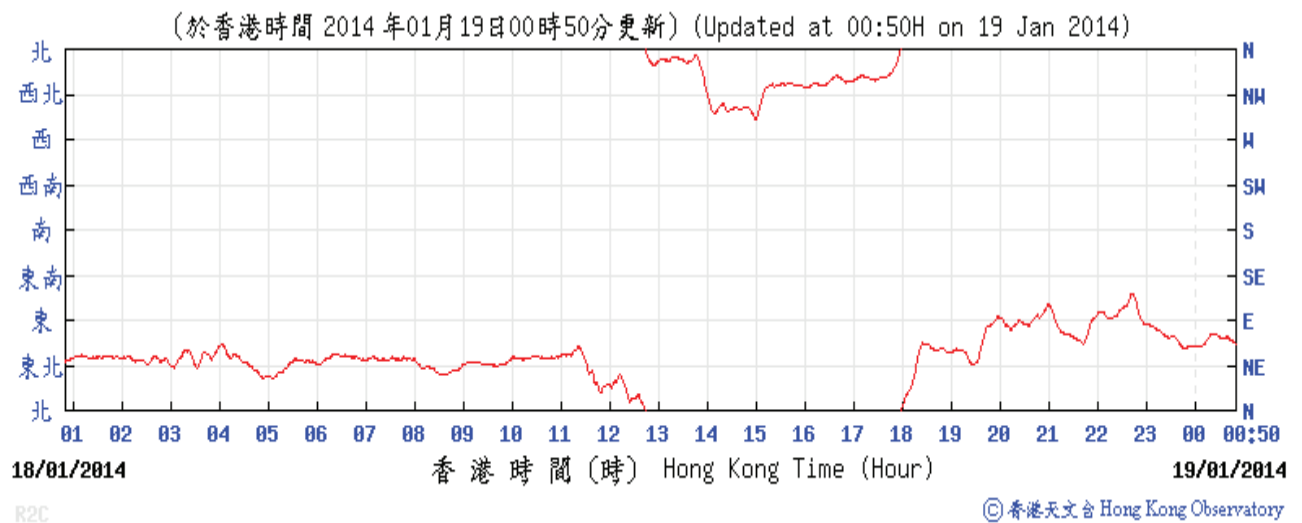
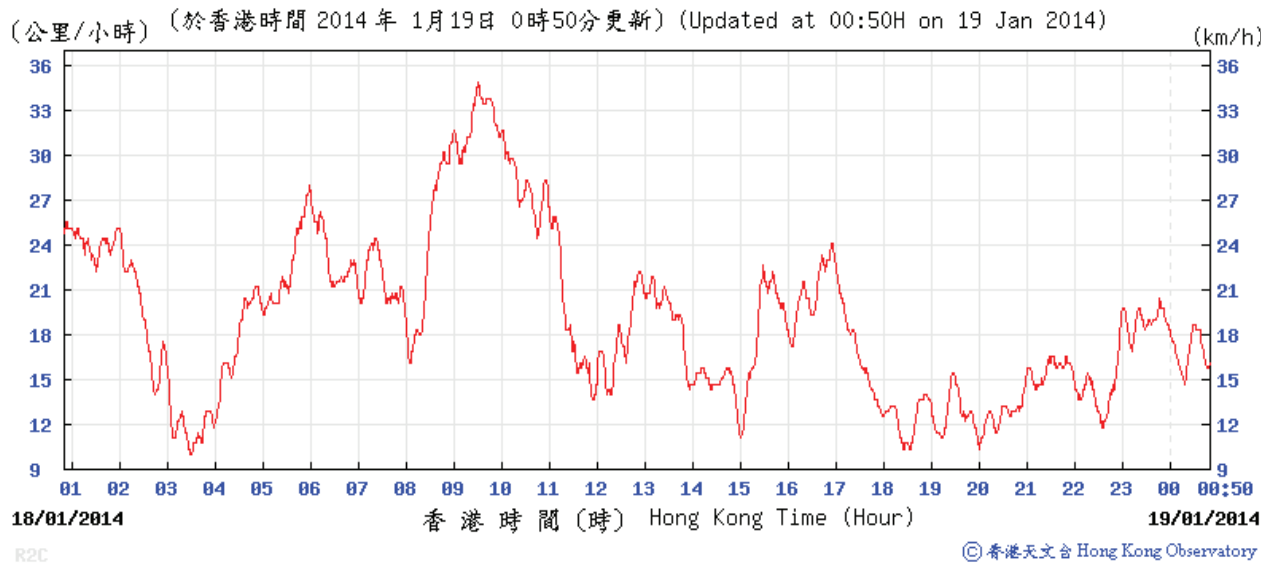
Extracted from the weather station at Tung Chung China State Site Office Rooftop

Date	Time	Wind Speed (mph)	Wind Direction	Date	Time	Wind Speed (mph)	Wind Direction
31/01/2014	22:40	2	NNW				
31/01/2014	22:45	3	SSW				
31/01/2014	22:50	5	S				
31/01/2014	22:55	4	SSE				
31/01/2014	23:00	3	S				
31/01/2014	23:05	0	ESE				
31/01/2014	23:10	0	---				
31/01/2014	23:15	2	ESE				
31/01/2014	23:20	1	ESE				
31/01/2014	23:25	0	S				
31/01/2014	23:30	2	NNW				
31/01/2014	23:35	1	NNW				
31/01/2014	23:40	3	NNE				
31/01/2014	23:45	1	ENE				
31/01/2014	23:50	2	NE				
31/01/2014	23:55	2	NNW				
01/02/2014	00:00	2	NNW				

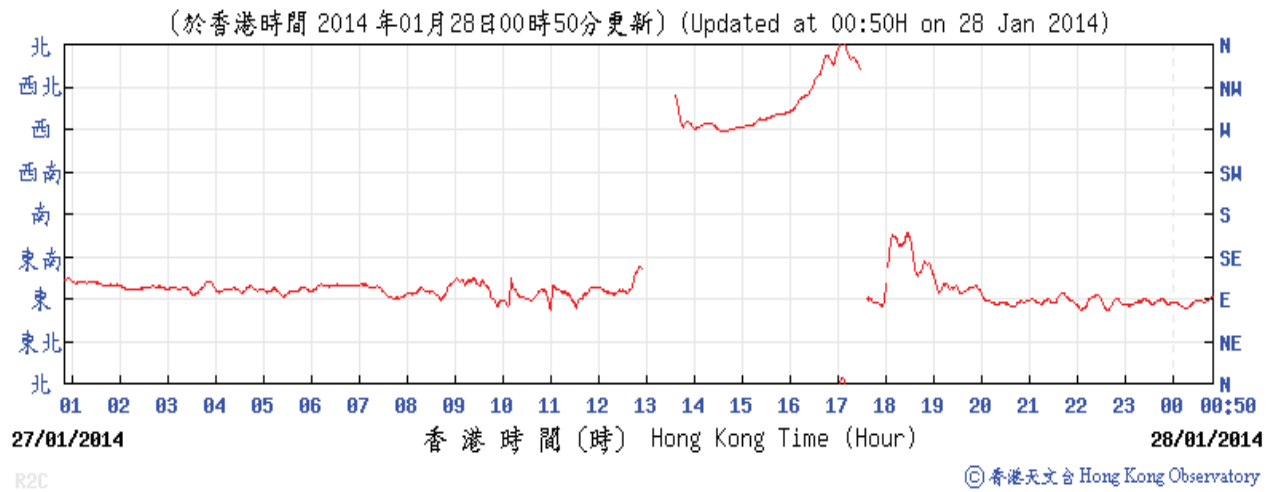
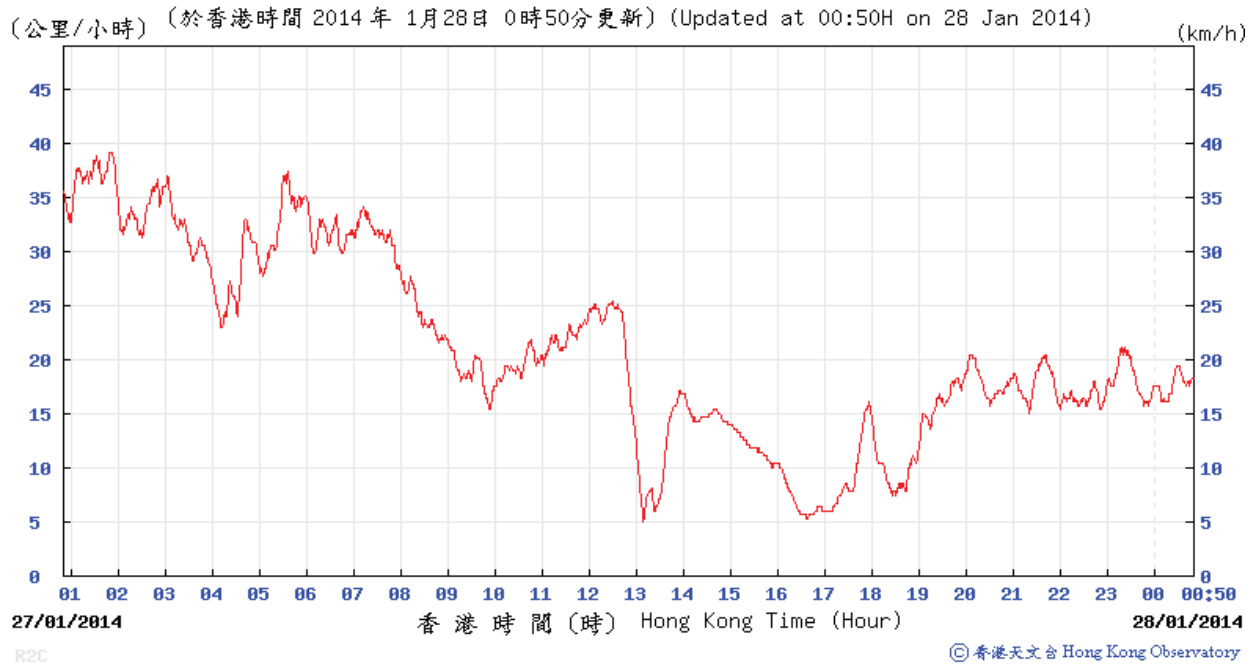
Wind data of Hong Kong Observatory's Chek Lap Kok weather station



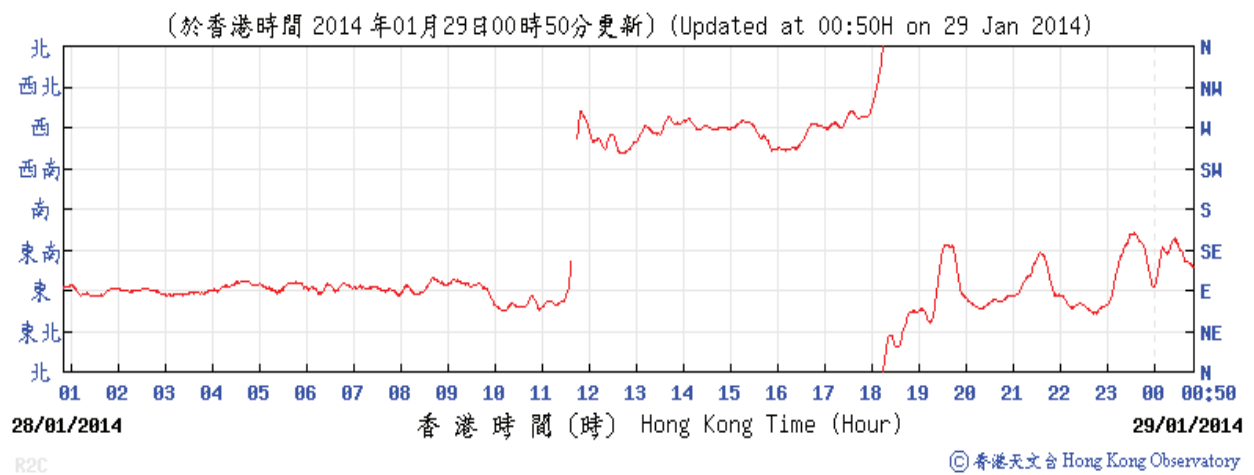
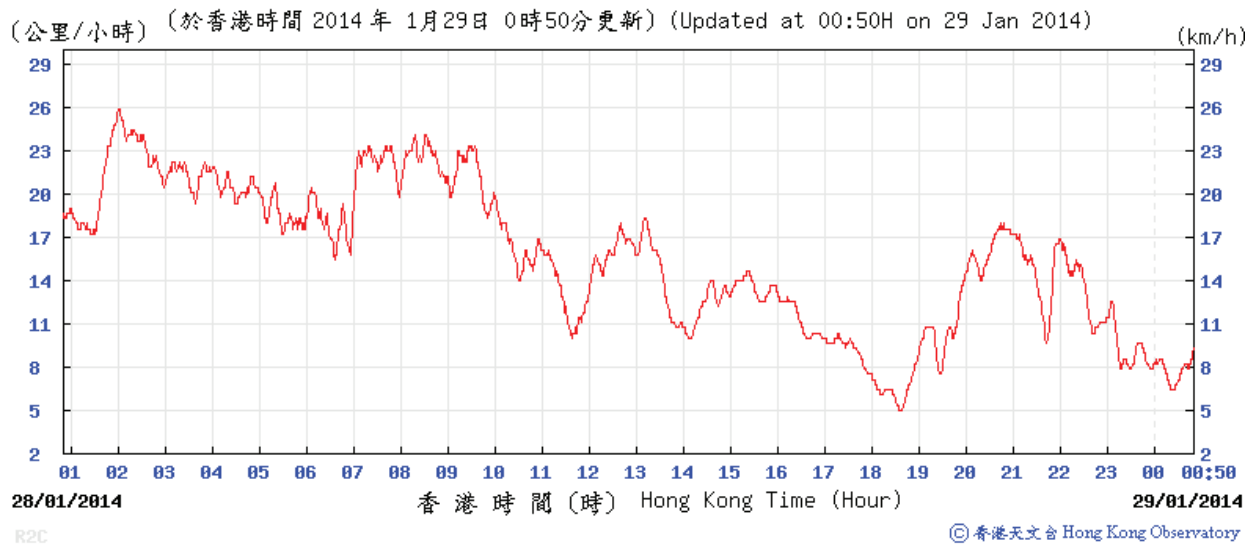
Wind data of Hong Kong Observatory's Chek Lap Kok weather station



Wind data of Hong Kong Observatory's Chek Lap Kok weather station



Wind data of Hong Kong Observatory's Chek Lap Kok weather station





路政署
HIGHWAYS DEPARTMENT

港珠澳大橋香港工程管理處
Hong Kong - Zhuhai - Macao Bridge
Hong Kong Project Management Office

Contract No. HY/2011/03 : Hong Kong-Zhuhai-Macao Bridge
Hong Kong Link Road - Section between Scenic Hill
and Hong Kong Boundary Crossing Facilities
16th Monthly EM&A Report

APPENDIX H

Dolphin Monitoring Results



中國建築工程(香港)有限公司
CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LTD.

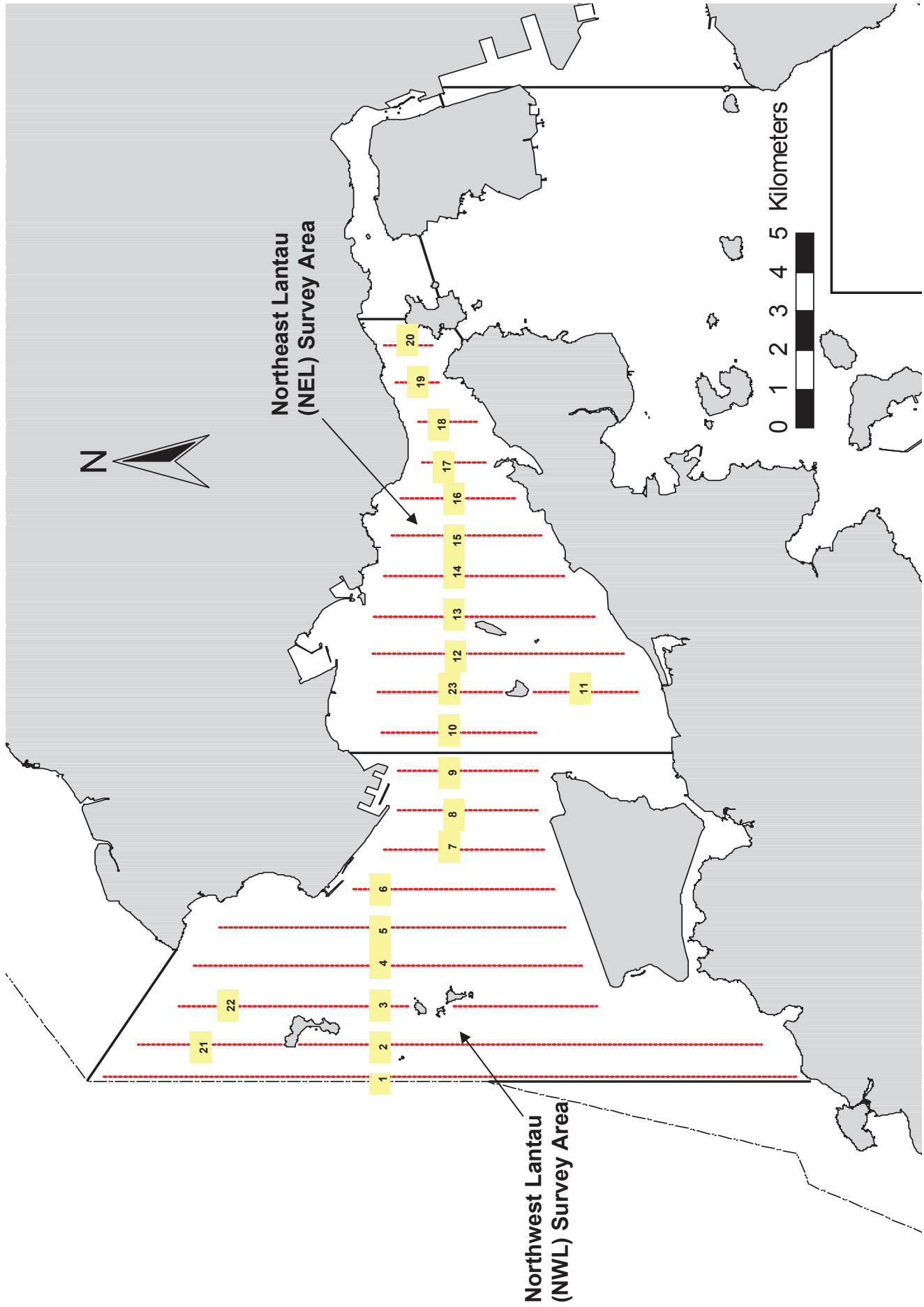


Figure 1. Transect Line Layout in Northwest and Northeast Lantau Survey Areas

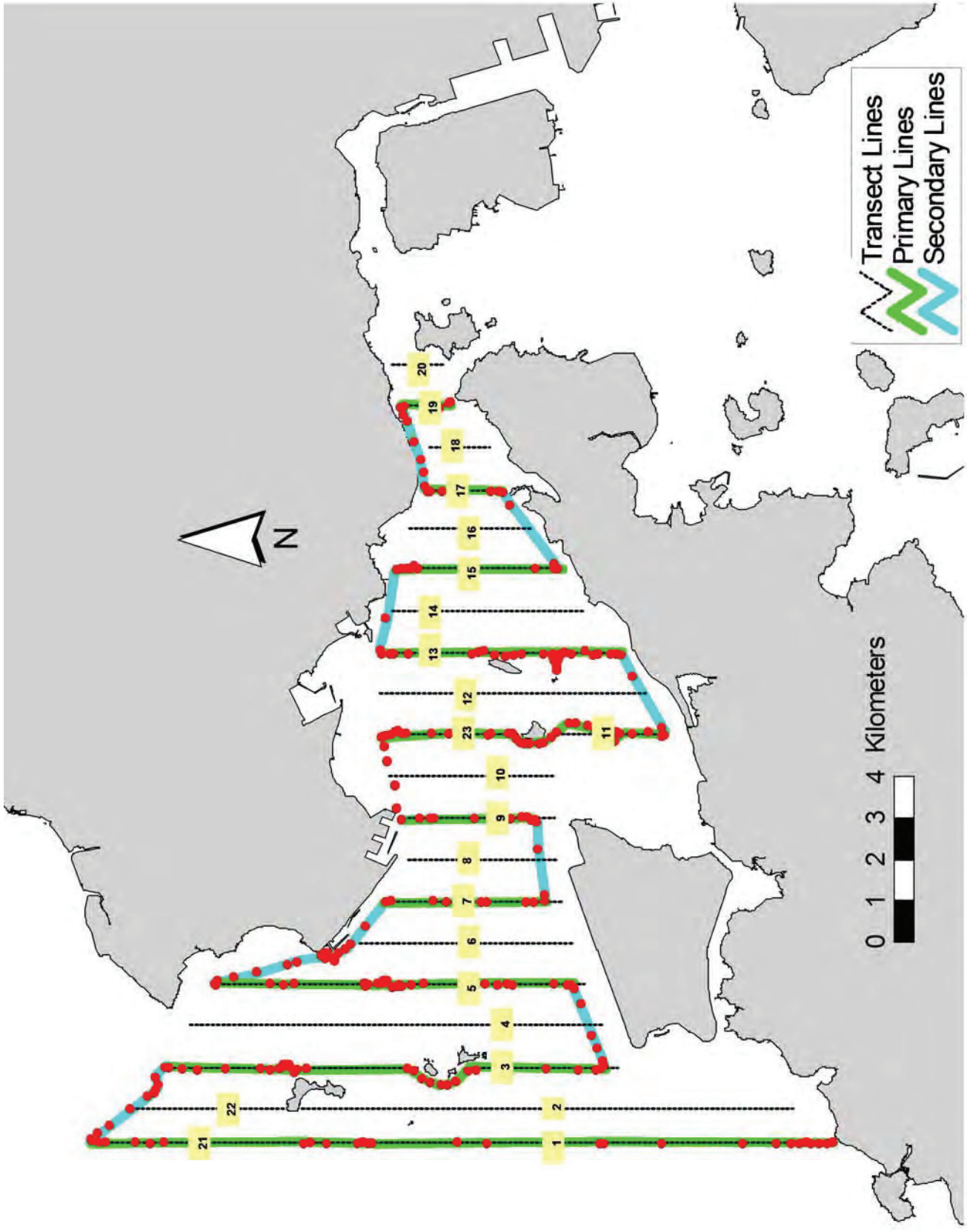


Figure 2. Survey Route on January 7th, 2014

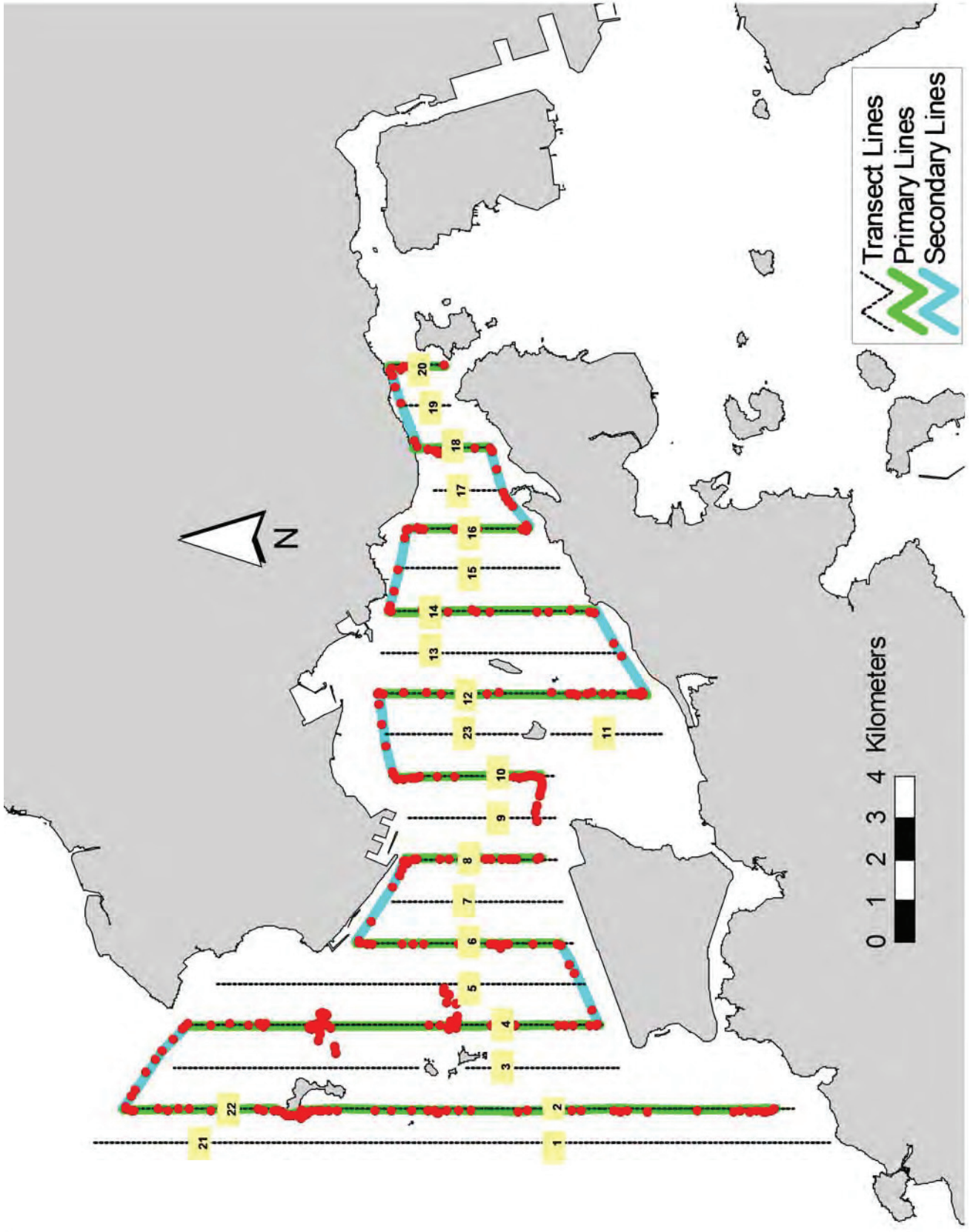


Figure 3. Survey Route on January 9th, 2014

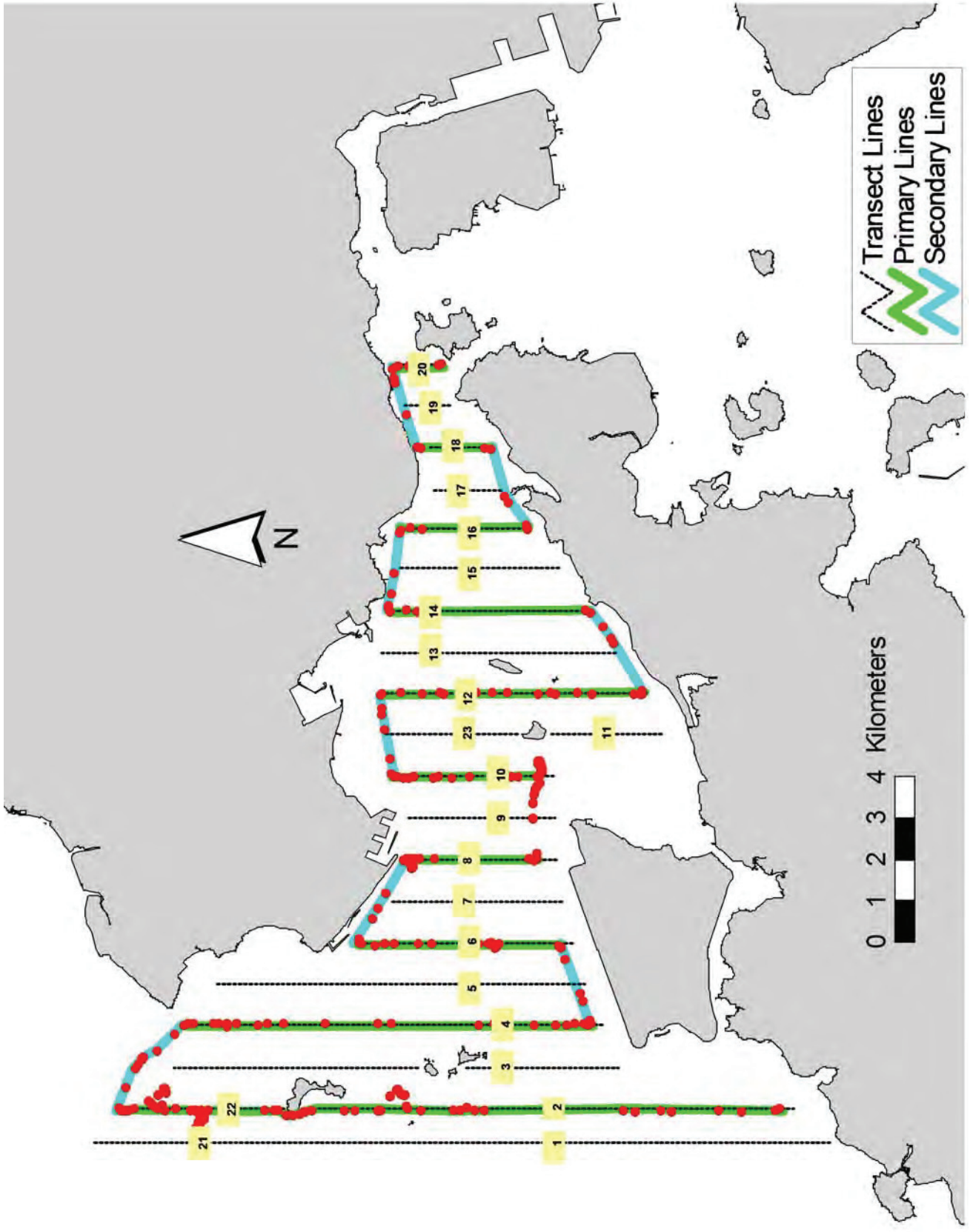


Figure 4. Survey Route on January 21st, 2014

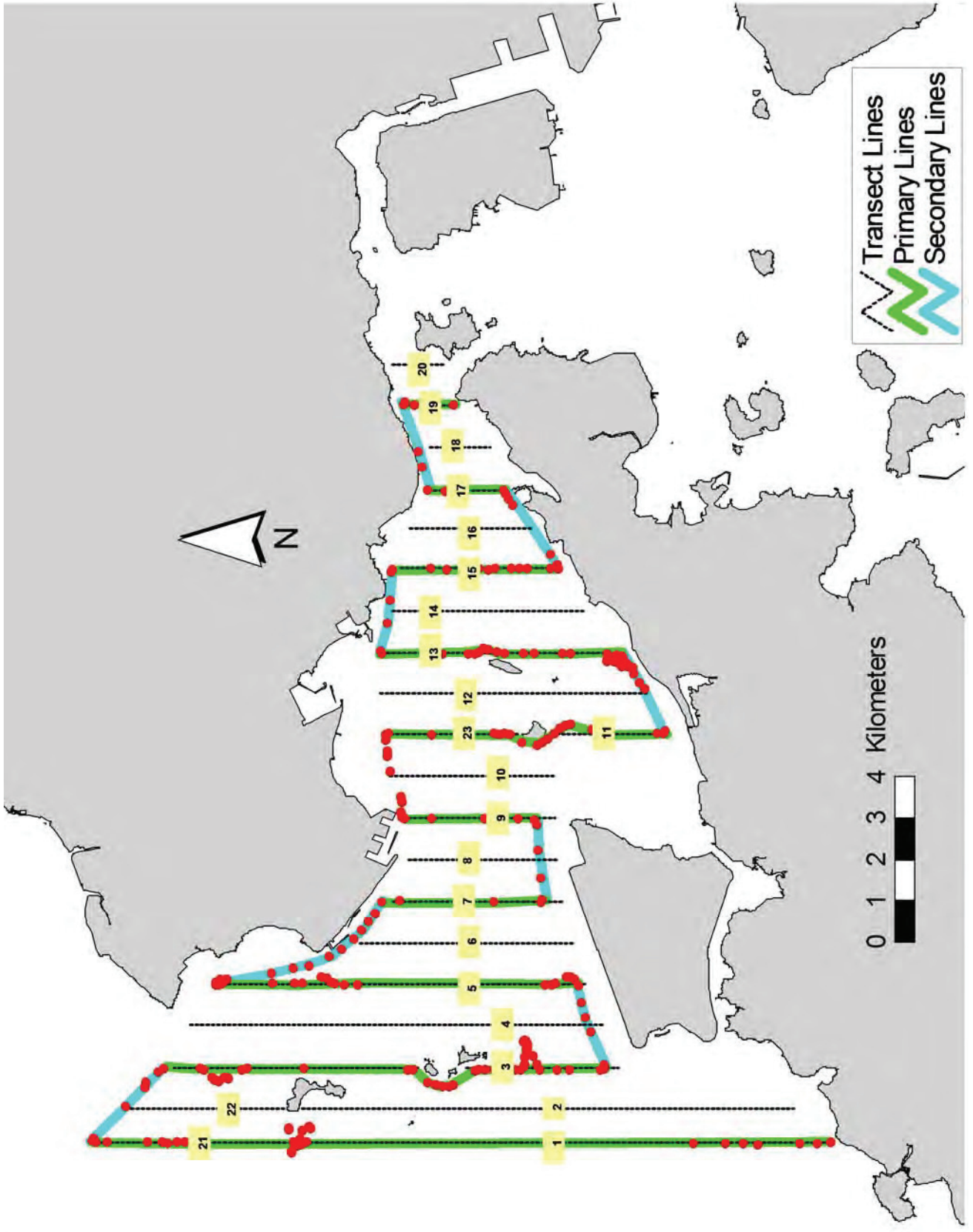


Figure 5. Survey Route on January 23rd, 2014

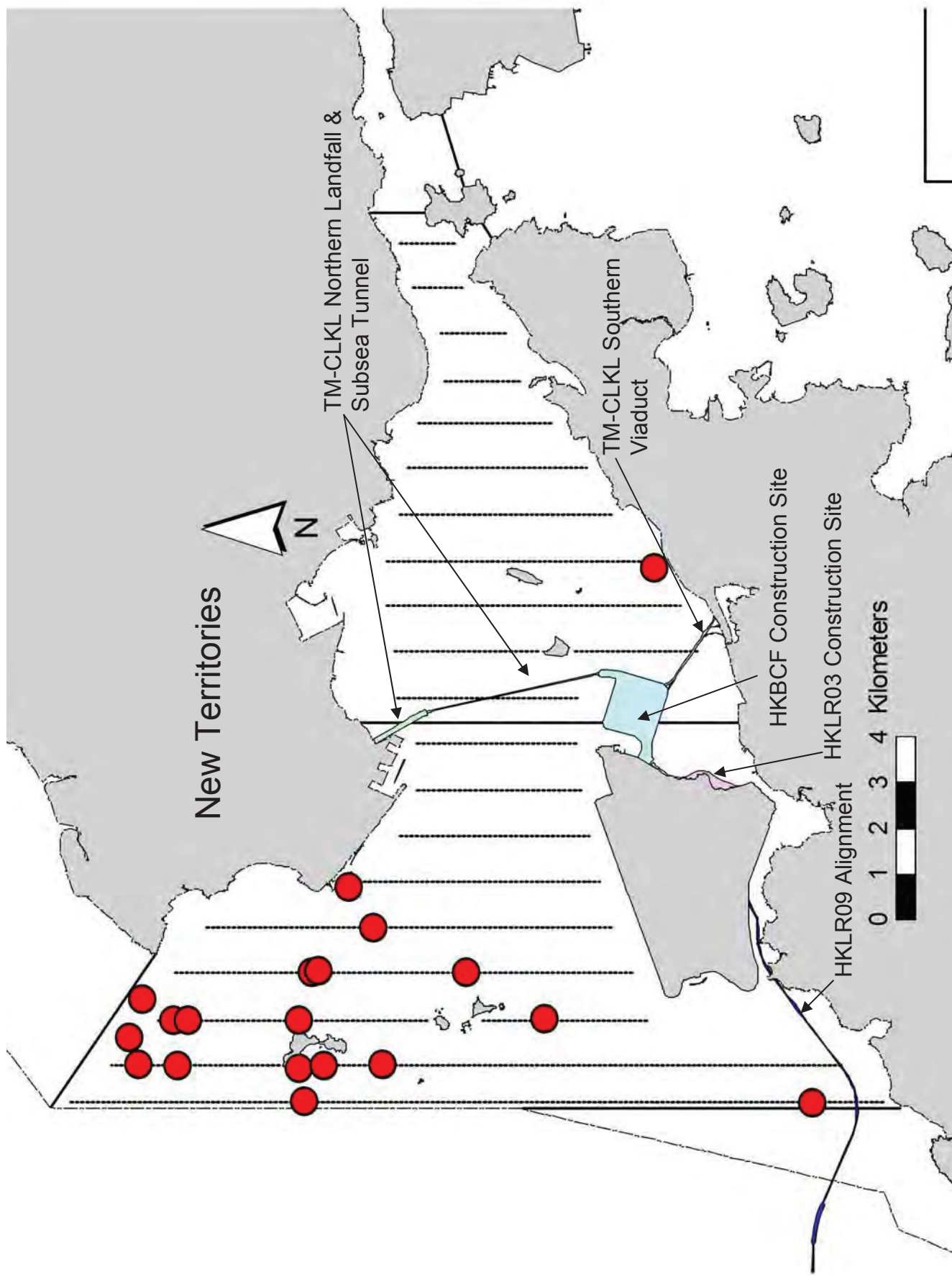


Figure 6. Distribution of Chinese White Dolphin Sightings During January 2014 HKLR03 Monitoring Surveys

Annex I. HKLR03 Survey Effort Database (January 2014)

(Abbreviations: BEAU = Beaufort Sea State; P = Primary Line Effort; S = Secondary Line Effort)

DATE	AREA	BEAU	EFFORT	SEASON	VESSEL	TYPE	P/S
7-Jan-14	NE LANTAU	2	1.09	WINTER	STANDARD31516	HKLR	P
7-Jan-14	NE LANTAU	3	14.05	WINTER	STANDARD31516	HKLR	P
7-Jan-14	NE LANTAU	4	1.01	WINTER	STANDARD31516	HKLR	P
7-Jan-14	NE LANTAU	2	3.39	WINTER	STANDARD31516	HKLR	S
7-Jan-14	NE LANTAU	3	7.60	WINTER	STANDARD31516	HKLR	S
7-Jan-14	NW LANTAU	2	9.81	WINTER	STANDARD31516	HKLR	P
7-Jan-14	NW LANTAU	3	28.88	WINTER	STANDARD31516	HKLR	P
7-Jan-14	NW LANTAU	2	8.13	WINTER	STANDARD31516	HKLR	S
7-Jan-14	NW LANTAU	3	3.43	WINTER	STANDARD31516	HKLR	S
9-Jan-14	NE LANTAU	1	4.79	WINTER	STANDARD31516	HKLR	P
9-Jan-14	NE LANTAU	2	14.76	WINTER	STANDARD31516	HKLR	P
9-Jan-14	NE LANTAU	1	2.30	WINTER	STANDARD31516	HKLR	S
9-Jan-14	NE LANTAU	2	8.28	WINTER	STANDARD31516	HKLR	S
9-Jan-14	NW LANTAU	2	10.13	WINTER	STANDARD31516	HKLR	P
9-Jan-14	NW LANTAU	3	21.20	WINTER	STANDARD31516	HKLR	P
9-Jan-14	NW LANTAU	2	5.02	WINTER	STANDARD31516	HKLR	S
9-Jan-14	NW LANTAU	3	2.06	WINTER	STANDARD31516	HKLR	S
21-Jan-14	NE LANTAU	2	4.00	WINTER	STANDARD 31516	HKLR	P
21-Jan-14	NE LANTAU	3	15.27	WINTER	STANDARD 31516	HKLR	P
21-Jan-14	NE LANTAU	4	1.50	WINTER	STANDARD 31516	HKLR	P
21-Jan-14	NE LANTAU	3	10.76	WINTER	STANDARD 31516	HKLR	S
21-Jan-14	NE LANTAU	4	0.40	WINTER	STANDARD 31516	HKLR	S
21-Jan-14	NW LANTAU	2	13.76	WINTER	STANDARD 31516	HKLR	P
21-Jan-14	NW LANTAU	3	14.44	WINTER	STANDARD 31516	HKLR	P
21-Jan-14	NW LANTAU	4	1.29	WINTER	STANDARD 31516	HKLR	P
21-Jan-14	NW LANTAU	2	4.95	WINTER	STANDARD 31516	HKLR	S
21-Jan-14	NW LANTAU	3	3.95	WINTER	STANDARD 31516	HKLR	S
23-Jan-14	NW LANTAU	1	4.93	WINTER	STANDARD31516	HKLR	P
23-Jan-14	NW LANTAU	2	29.22	WINTER	STANDARD31516	HKLR	P
23-Jan-14	NW LANTAU	3	5.21	WINTER	STANDARD31516	HKLR	P
23-Jan-14	NW LANTAU	1	2.20	WINTER	STANDARD31516	HKLR	S
23-Jan-14	NW LANTAU	2	10.18	WINTER	STANDARD31516	HKLR	S
23-Jan-14	NE LANTAU	1	1.41	WINTER	STANDARD31516	HKLR	P
23-Jan-14	NE LANTAU	2	12.52	WINTER	STANDARD31516	HKLR	P
23-Jan-14	NE LANTAU	3	2.59	WINTER	STANDARD31516	HKLR	P
23-Jan-14	NE LANTAU	1	0.47	WINTER	STANDARD31516	HKLR	S
23-Jan-14	NE LANTAU	2	9.53	WINTER	STANDARD31516	HKLR	S

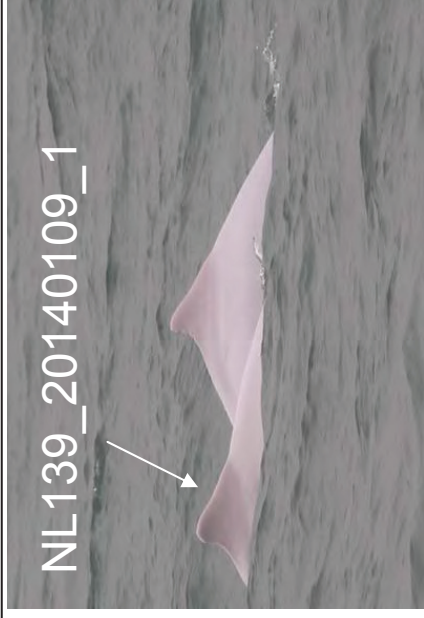
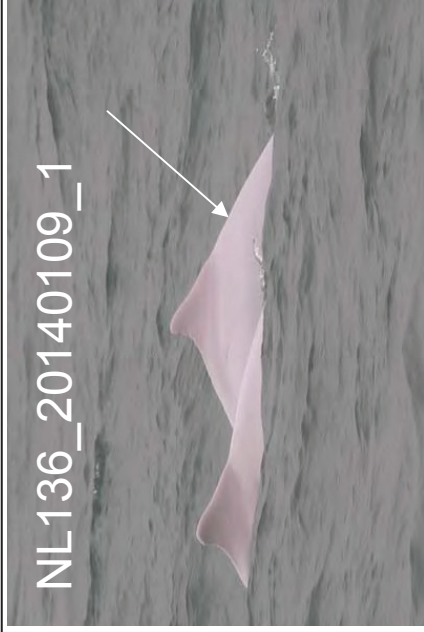
Annex II. HKLR03 Chinese White Dolphin Sighting Database (January 2014)

(Abbreviations: STG# = Sighting Number; HRD SZ = Dolphin Herd Size; BEAU = Beaufort Sea State; PSD = Perpendicular Distance; BOAT ASSOC. = Fishing Boat Association P/S: Sighting Made on Primary/Secondary Line\$

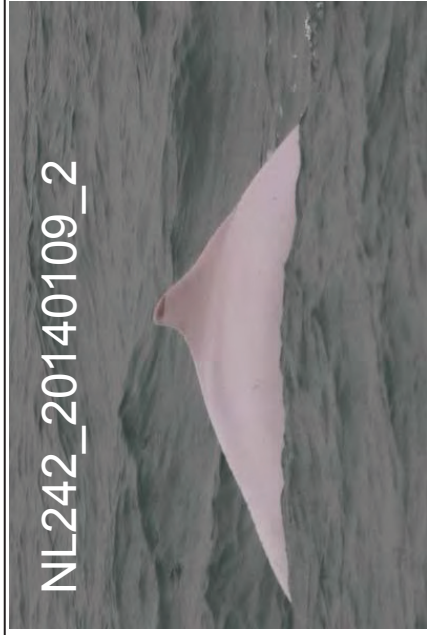
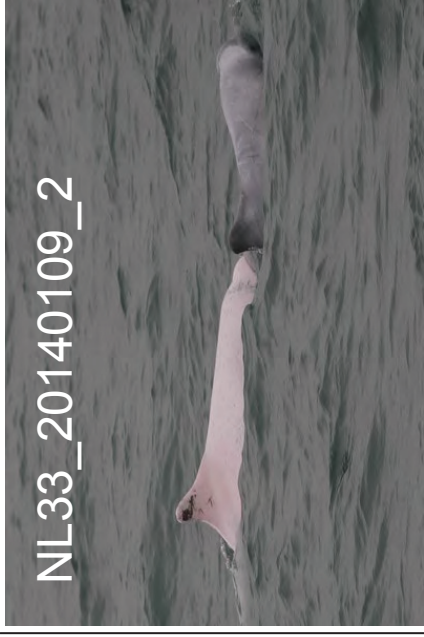
DATE	STG #	TIME	HRD SZ	AREA	BEAU	PSD	EFFORT	TYPE	NORTHING	EASTING	SEASON	BOAT ASSOC.	P/S
7-Jan-14	1	1258	2	NW LANTAU	3	87	ON	HKLR	825659	809348	WINTER	NONE	S
7-Jan-14	2	1337	1	NW LANTAU	3	125	ON	HKLR	825152	808472	WINTER	NONE	P
7-Jan-14	3	1452	3	NW LANTAU	2	1171	ON	HKLR	826673	806456	WINTER	NONE	P
7-Jan-14	4	1515	6	NW LANTAU	2	5	ON	HKLR	829275	806451	WINTER	NONE	P
9-Jan-14	1	1336	6	NW LANTAU	3	24	ON	HKLR	823238	807510	WINTER	NONE	P
9-Jan-14	2	1407	10	NW LANATU	2	62	ON	HKLR	826405	807506	WINTER	NONE	P
9-Jan-14	3	1435	1	NW LANTAU	3	56	ON	HKLR	826272	807526	WINTER	NONE	P
9-Jan-14	4	1534	3	NW LANTAU	2	131	ON	HKLR	826675	805395	WINTER	NONE	S
9-Jan-14	5	1546	1	NW LANTAU	2	113	ON	HKLR	826176	805446	WINTER	NONE	P
21-Jan-14	1	1407	2	NW LANTAU	2	99	ON	HKLR	829916	806916	WINTER	NONE	S
21-Jan-14	2	1426	7	NW LANTAU	2	260	ON	HKLR	830008	805474	WINTER	NONE	P
21-Jan-14	3	1444	2	NW LANTAU	2	84	ON	HKLR	829188	805452	WINTER	NONE	P
21-Jan-14	4	1521	9	NW LANTAU	2	434	ON	HKLR	824969	805464	WINTER	NONE	P
23-Jan-14	1	1015	2	NW LANTAU	2	977	ON	HKLR	816090	804642	WINTER	NONE	P
23-Jan-14	2	1101	4	NW LANTAU	2	329	ON	HKLR	826576	804674	WINTER	NONE	P
23-Jan-14	3	1133	3	NW LANTAU	1	957	ON	HKLR	830195	806061	WINTER	NONE	P
23-Jan-14	4	1202	5	NW LANTAU	1	199	ON	HKLR	828976	806450	WINTER	NONE	P
23-Jan-14	5	1250	2	NW LANTAU	2	372	ON	HKLR	821623	806467	WINTER	NONE	P
23-Jan-14	6	1538	9	NE LANTAU	2	365	ON	HKLR	819337	816344	WINTER	NONE	S

Annex III. Individual dolphins identified during HKLR03 monitoring surveys in January 2014

ID#	DATE	STG#	AREA
CH34	23/01/14	4	NW LANTAU
CH112	23/01/14	2	NW LANTAU
EL01	21/01/14	1	NW LANTAU
	23/01/14	6	NE LANTAU
NL11	23/01/14	3	NW LANTAU
NL24	09/01/14	2	NW LANTAU
	23/01/14	6	NE LANTAU
NL33	09/01/14	2	NW LANTAU
	23/01/14	6	NE LANTAU
NL46	23/01/14	4	NW LANTAU
NL48	07/01/14	4	NW LANTAU
	09/01/14	2	NW LANTAU
	09/01/14	3	NW LANTAU
	21/01/14	1	NW LANTAU
	23/01/14	3	NW LANTAU
NL80	21/01/14	2	NW LANTAU
NL98	09/01/14	2	NW LANTAU
NL103	07/01/14	4	NW LANTAU
NL104	23/01/14	4	NW LANTAU
NL120	09/01/14	2	NW LANTAU
	23/01/14	6	NE LANTAU
NL123	23/01/14	2	NW LANTAU
	23/01/14	5	NW LANTAU
NL136	07/01/14	1	NW LANTAU
	09/01/14	1	NW LANTAU
NL139	07/01/14	1	NW LANTAU
	09/01/14	1	NW LANTAU
	23/01/14	6	NE LANTAU
NL214	07/01/14	4	NW LANTAU
	21/01/14	4	NW LANTAU
NL220	09/01/14	1	NW LANTAU
NL221	07/01/14	4	NW LANTAU
	21/01/14	4	NW LANTAU
NL226	21/01/14	4	NW LANTAU
NL236	21/01/14	3	NW LANTAU
NL242	09/01/14	2	NW LANTAU
	23/01/14	6	NE LANTAU
NL259	23/01/14	4	NW LANTAU
NL261	23/01/14	4	NW LANTAU
NL272	09/01/14	1	NW LANTAU
	21/01/14	2	NW LANTAU
	23/01/14	6	NE LANTAU
NL284	21/01/14	4	NW LANTAU
NL285	23/01/14	2	NW LANTAU
NL308	21/01/14	2	NW LANTAU
WL162	21/01/14	3	NW LANTAU
WL214	09/01/14	4	NW LANTAU



Annex IV. Photographs of Identified Individual Dolphins in January 2014 (HKLR03)





EL01_20140121_1



NL48_20140121_1



NL80_20140121_2



NL272_20140121_2



NL308_20140121_2



NL236_20140121_3



WL162_20140121_3



NL214_20140121_4



NL221_20140121_4







Annex IV. (cont'd)



APPENDIX I

Waste Flow Table



MONTHLY SUMMARY WASTE FLOW TABLE

Name of Department: Hyd

Contract No.: HY/2011/03

Monthly Summary Waste Flow Table for 2014

Month	Actual Quantities of Inert C&D Materials Generated Monthly							Actual Quantities of C&D Wastes Generated Monthly					
	Total Quantity Generated (in '000m ³)	Hard Rock and Large Broken Concrete (in '000m ³)	Reused in the Contract (Note 8) (in '000m ³)	Reused in Other Projects (Note 8) (in '000m ³)	Disposed as Public Fill (Note 6) (in '000m ³)	Imported Fill (Note 6) (in '000m ³)	Metals (in '000kg)	Paper / Cardboard Packaging (in '000kg)	Plastics (Note 3) (in '000kg)	Chemical Waste (in '000kg)	Others, e.g. general refuse (Note 8) (in '000m ³)		
	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m ³)		
Jan	6.396	0.000	6.396	0.000	0.000	127.813	0.000	0.000	0.000	0.000	0.163		
Feb	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		
Mar	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		
Apr	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		
May	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		
Jun	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		
Sub-total	6.396	0.000	6.396	0.000	0.000	127.813	0.000	0.000	0.000	0.000	0.163		
Jul	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		
Aug	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		
Sep	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		
Oct	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		
Nov	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		
Dec	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		
Sub- total	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		
Total	6.396	0.000	6.396	0.000	0.000	127.813	0.000	0.000	0.000	0.000	0.163		

Notes: (1) The performance target are given in ER Appendix 8J Clause 14

(2) The waste flow table shall also include C&D materials that are not specified in the Contract to be imported for use at the Site

(3) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material

(4) The Contractor shall also submit the latest forecast of the amount of C&D materials expected to be generated from the Works, together with a break down of the nature where the total amount of C&D materials expected to be generated from the Works is equal to or exceeding 50,000m³.

(5) All recyclable materials, including metals, paper / cardboard packaging, plastics, etc. will be collected by registered collector for (6) Conversion factors for reporting purpose:

excavated (bulk): rock = 2.0 tonnes/m³; soil = 1.8 tonnes/m³; sand=1.9tonnes/m³

(7) Numbers are rounded off to the nearest three decimal places

(8) 30T dump truck carries C&D waste of 8.0m³; 24T dump truck carries C&D waste of 6.5m³



路政署
HIGHWAYS DEPARTMENT

港珠澳大橋香港工程管理處
Hong Kong - Zhuhai - Macao Bridge
Hong Kong Project Management Office

Contract No. HY/2011/03 : Hong Kong-Zhuhai-Macao Bridge
Hong Kong Link Road - Section between Scenic Hill
and Hong Kong Boundary Crossing Facilities
16th Monthly EM&A Report

APPENDIX J

Cumulative Statistic on Complaints



中國建築工程(香港)有限公司
CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LTD.

HyD Contract No. HY/2011/03
 Hong Kong - Zhuhai - Macao Bridge Hong Kong Link Road
 Section between Scenic Hill and Hong Kong Boundary Crossing Facilities

Complaint Register

Complaint No.	Received Date	Received Time	Source	Category	Complaint Details	Location	Improvement Measures Taken	Status	Remarks
COM-2012-008	22-Oct-2012	16:41	EPD	Environmental (Water Pollution)	X在昂洲橋頭邊發現有黑煙及水柱，有污水排到河中 (發現黑煙及水柱，有污水排到河中，要求調查及回覆。(Photos attached). The phenomenon was observed over the past week. The photos attached were taken on 19, 10, 2012, 22, 10, 2012 and 23, 10, 2012	Portion X	The pelican barge as shown in the photos provided on 24 October 2012 did not belong to the Contractor.	Closed	-
COM-2012-009	05-Nov-2012	-	1823 CASE:1-391341859	Environmental (Noise and light)	The complainant complained about noise and light pollution from barges working on the Zhuhai Macao Bridge project. Barge machinery working is about 10pm at night and the noise is very annoying. The noise is more audible because the machinery is sited on over the water.	Portion X	The Contractor has adjusted the emission angle of the lights on working vessels with a view to minimizing the glaring effect to the adjoining residential areas	Closed	-
COM-2012-009(2)	11-Nov-2012	-	1823 CASE:1-391341859	Environmental (Noise, water quality & air quality)	The complainant noted that the barges are still working on a Sunday, up until 10pm at night, very noisy, causing pollution of the water and at times expelling black smoke from their engines. A photograph taken at 10:40am on Sunday 11 November 2012 was attached.	Portion X	-	Closed	-
COM-2012-009(3)	14-Nov-2012	-	1823 CASE:1-391341859	Environmental (Noise)	The complainant did not accept the reply. He further said that "All staff has to do is come out either at night or a Sunday to check, so easy. If this continues I will have no choice to call the police out."	Portion X	The Contractor has taken the following further mitigation measures for the reclamation works: (a) Mitigation Measures for Noise Nuisance: • Improvement of noise covers onto the generators / motors on barges; and • Increase frequency of applying lubricant to all moving parts and gear wheels of the working barges. (b) Mitigation Measures for Smoke Emission: • Increase frequency of maintenance and checking of engines on barges that may emit smoke; and • Installation/ replacement of smoke suppression device such as air filter, at engines where necessary.	Closed	-
COM-2012-010(1)	06-Nov-2012	-	<tzmberquiny@hyd.gov.hk>	Environmental (Noise)	The complainant stated that lately work has started opposite Le Bleu Daux estate using barges. The work in process is generated high level of noise from powered tools used on these barges. Even if the noise was acceptable on weekdays during daytime, it is definitely creating nuisance to local resident at night (past 7pm) and on Sunday. Basically as 5 November 12 evening, he could not leave his window open as the level of noise prevent his baby to sleep and he could not even hear the TV in his flat, the noise coming from the site is higher than the sounds from my TV. He would like to know what measure you are planning to put in place to address this issue. He did not think that the current level of noise are acceptable past 7pm and on Sunday.	Portion X	-	Closed	-
COM-2012-010(2)	15-Nov-2012	-	<tzmberquiny@hyd.gov.hk>	Environmental (Noise & air quality)	The noise can be very annoying, on days depending of the wind direction, you are making more noise than the plane taking off (I measured it myself), to give you an idea of the disturbance you are creating again, I would also like to bring an other topic beside the noise. Since the beginning of the filling operation, very strong smell of exhaust pipe gas can be smelt in the residential area and I think this is a huge health concern for the local population. On certain days when the wind is blowing towards the residential areas, I have the feeling that there is a diesel engine running in my living room. I would like to know how you are planning to address this?	Portion X	-	Closed	-

HyD Contract No. HY/2011/03
 Hong Kong - Zhuhai - Macao Bridge Hong Kong Link Road
 Section between Scenic Hill and Hong Kong Boundary Crossing Facilities

Complaint Register

Complaint No.	Received Date	Received Time	Source	Category	Complaint Details	Location	Improvement Measures Taken	Status	Remarks
COM-2012-010(3)	15-Nov-2012	-	EPD	Environmental (Noise, water quality & air quality)	The complainant has copied his reply from HyD dated 15 Nov 2012 to EPD and Health Department and he further complained on the following issues: • Noise nuisance generated by diesel engine; • Smell of exhaust pipe gas in his residence; and • Suspected marine water pollution (see enclosed photo). The complainant also requested EPD to install noise and air quality monitoring at Le Bleu Deux estate.	WA6 Portion X	Noise from blowing horn from vessels and barges and Metallic Parts thrown on Ground • Reminded the Contractor to request the captains of the vessels and barges not blowing the horn except in case of emergency or prevention of ship collisions/serious safety matters; • The supervision teams would enhance their tight control on the vessels and barges working at that location, and monitor the situation and take corresponding actions; and • To enhance the work force of HSS to supervise each step of construction activities and the use of hand tools until the completion of the site office erection. Noise from Engines and Cranes of the Barges during Marine Operation • Installation of noise covers onto the generators / motors on all working barges; • Increase frequency of applying lubricant to all moving parts and gear wheels of the working barges to avoid generation of abnormal sound; and • Review of working hours for the reclamation works and switching off all unnecessary machinery and plants at night time and Sundays. Noise from power generators • All generators shall be either screened or covered by adequate sound reducing materials; • All generators situated in front of Le Bleu Deux estate will be switched off at 19:00 hrs, except two generators will be kept running up to 22:00hrs and one generator will be kept running overnight for maintaining minimum power requirement; and • Arrangement with CLP Power HK Ltd (CLP) for the permanent power supply to the site offices has been chased in a matter of urgency. The use of power generators will be terminated in phase starting from 6 December 2012. Dust from Earth Excavation • The contractor should use the machine and generators in the vicinity of Le Bleu Deux estate, and • Closely monitor the frequency on engine cleansing and replacement of dust filter. Change of Sea Water in Yellow • The Contractor was reminded to move their vessels and barges at areas with adequate water depth as practically as possible.	Closed	-
COM-2012-010(4)	19-Nov-2012	22:25 hrs.	EPD	Environmental (Air quality and Noise)	The complainant filed again a complaint for the strong exhaust pipe fumes smell coming for the construction site in Tung Chung tonight, as well as the extremely high level of noise as at: at 10:30 pm (19/11/12).	WA6			
COM-2012-010(5)	24-Nov-2012	13:42 hrs. 13:49 hrs	EPD (cc to HyD)	Environmental (Air quality and Noise)	The noise is coming for the following sources: - power generator - engines from the barges used for marine operation - noise from the cranes use of the construction barges. - engine from the boat used to transport staff in and out - boats blowing their horn late in the evening and at night Gas emissions: - power generators - marine operation The complainant file again a complaint against the strong exhaust pipe emission flowing towards le Bleu Deux estate this afternoon 24/11/10 at 13:47. I can assure you that it is not "not that bad" whatever that means for you. And again strong noise of metallic parts being thrown on the ground. / <i>thought you have already sorted out that problem according to your multiple replies to my complaints since July ???</i>	WA6 Portion X			
	25-Nov-2012	22:02 hrs. 22:08 hrs.	EPD (cc to HyD)		A picture taken this morning (25/11/12) around 9:30am-10am showing the water pollution in different area outside the floating barriers. At 21:56 hrs, boat used by the Highway Department against blew their horn repetitively at close proximity from the residential estate.				
COM-2012-012(1)	13-Nov-2012	22:27 hrs.	HyD	Environmental (Noise)	Once again your site continues to work late. The attached photo was taken at 10:15pm on Tuesday 13 Nov. The machinery used on the barges is very noisy. Why do you continue to work till 10pm and why do you work on a Sunday. Surely this is classified as a construction site for which you are in breach of various ordinances. An early reply is appreciated.	Portion X	The following further mitigation measures during the course of the reclamation works will be taken: • Installation of noise covers onto the generators / motors on all working barges; • Increase frequency of applying lubricant to all moving parts and gear wheels of the working barges to avoid generation of abnormal sound; and • Review of working hours for the reclamation works and switching off all unnecessary machinery and plants at nighttime and Sundays.	Closed	-
COM-2013-015	17-Jan-2013	-	EPD	Environmental (Air)	The complainant raised that construction dust was arising from construction site of China State Construction Engineering (Hong Kong) Ltd near Su Ho Wan Sewage Treatment Works due to insufficient dust suppression and inadequate wheel washing.	WA3	The Contractor of HY2011/03 would take the following actions with immediate effect • To ensure no loosed earth material exposed at the edges of earth stockpiled earth materials i.e. to prevent erosion by wind and water; • To cover the stockpiled earth material by adequate tarpaulin; • To enhance the frequency of watering (3 times per day) onto existing haul road, and other area as appropriate; and • To install a water sprinker system to enhance the existing dust suppression measures once the water point is ready for water supply by WSD.	Closed	

HyD Contract No.HY/2011/03
 Hong Kong - Zhuhai - Macao Bridge Hong Kong Link Road
 Section between Scenic Hill and Hong Kong Boundary Crossing Facilities

Complaint Register

Complaint No.	Received Date	Received Time	Source	Category	Complaint Details	Location	Improvement Measures Taken	Status	Remarks
COM-2013-016	18-Jan-2013	-	EPD	Environmental (Water)	The complainant advised that turbid water and concrete/cement has been arising from the Hong Kong-Zhuhai-Macao Bridge Hong Kong Projects to marine water. The complainant did not specify the source of the turbid water and concrete/cement.	N/A	-	Closed	-
COM-2013-018	02-Mar-2013	-	HyD	Environmental (Noise)	The complainant advised that "it seems that the Contractor's cranes operating on the barges are again in need of bit of lubricant", as this evening i.e. 2 March 2013, the cranes are again polluting the neighborhood with intolerable noise." The complainant requested Mr. Ng from EPD to take note of this complaint and expected a detailed report.	Portion X	The Contractor has been reminded to continue the process of applying lubricant/grease to all barges which are to be worked in the site area near Le Bleu Deux.	Closed	-
COM-2013-018 (2)	04-Mar-2013	-	EPD	Environmental (Noise)	The complainant complained that the cranes operating on the barges for the HZMB HK project generating squeak noise in the evening of 1 March 2013 causing an annoyance to him/her.	Portion X	The Contractor implemented the following measures : - Briefing given to the operator for the proper operation of marine vessels; - Keep adequate routine maintenance ; - Minimize the quantities of plant after 7pm ; & - Review the working hours of night time works and switch off all unnecessary machinery and plants at night time.	Closed	-
COM-2013-018 (3)	13-Mar-2013	-	HyD	Environmental (Noise)	The complainant asked what noise mitigation the Contractor was taking. The complainant pointed out that the noise in question was so strong that it woke up his baby girl.	Portion X	-	Closed	-
COM-2013-018 (4)	22-Mar-2013	14:19 hrs	HyD	Environmental (Noise)	The complainant complained that "the lifting appliance was operated gently and softly to keep the noise emission as low as possible" but the noise still woke up his baby. "Lubricant was regularly applied to smoothen all moving parts and gear wheels of the working barges" that did not seem to be the case at all. The complainant pointed that the crane operating at 10:27 hrs on 24 March 2012 needed lubricant.	Portion X	The Contractor will keep on closely monitoring the situation and carry out the necessary noise mitigation measures while barges are working in the site area nearby residential area.	Closed	-
COM-2013-018 (5)	24-Mar-2013	10:28 hrs							
COM-2013-018 (5)	31-Mar-2013	10:25 hrs	HyD	Environmental (Noise)	The complainant complained that noise emitted from a crane at 10:19 hrs. The complainant further complained that noise was generated from a barge at 07:30 hrs.	Portion Y	-	Closed	-
COM-2013-018 (5)	1-Apr-2013	10:32 hrs							
COM-2013-018 (6), (7) & (9)	15-Apr-2013	15:41 hrs	EPD	Environmental (Noise)	The complainant complained that machinery noise generated from the construction site near Tung Chung Development Pier operating for the Hong Kong-Zhuhai-Macao Bridge Hong Kong during the normal working hours on 6 April 2013 and 13 April 2013 and the late evening of 10 April 2013 causing nuisance to public.	Portion X	The Contractor has been reminded to comply with CNP conditions for construction works undertaken during restricted hours. To minimize the potential noise impact during restricted hours and non-restricted hours, the Contractor has implemented the following additional measures: - Briefing given to the operator of the barges for proper operation of marine vessels; - Operating barge by experienced operators only; - Keeping adequate routine maintenance for barges e.g. application of lubricants into moving parts in order to minimize squeak noise; - Install noise covers onto noisy equipment where practicable. - Remind subcontractor only well-maintained plant should be operated on-site. - Minimize the quantities of plant used after 7pm as far as practicable; - Speed up of construction works in order to shorten the duration (days) of potential noise impact/nuisance to the surrounding environment; and - Regular review of working hours for night time works and switch off all unnecessary machinery and plants at night time.	Closed	-

Hyd Contract No. HY/2011/03
 Hong Kong - Zhuhai - Macao Bridge Hong Kong Link Road
 Section between Scenic Hill and Hong Kong Boundary Crossing Facilities

Complaint Register

Complaint No.	Received Date	Received Time	Source	Category	Complaint Details	Location	Improvement Measures Taken	Status	Remarks
COM-2013-018 (11)	28-Apr-2013	15:44	EPD	Environmental (Noise)	The complainant complained that machinery noise generated from the reclamation site near Tung Chung Development Pier at around 22:00 of 28 April 2013 causing nuisance to public.	Portion X	The Contractor has been reminded to comply with CNP conditions for construction works undertaken during restricted hours. To minimize the potential noise impact during restricted hours, the Contractor has implemented the following additional measures: - Briefing given to the operator of the barges for proper operation of main vessels; - Operating adequate routine maintenance for barges e.g. application of lubricants into moving parts in order to avoid squeak noise; - Install noise covers onto noisy equipment where practicable. - Remind subcontractor only well-maintained plant should be operated on-site. - Speed up of construction works in order to shorten the duration (days) of potential noise impact/nuisance to the surrounding environment; and - Regular review of working hours for night time works and switch off all unnecessary machinery and plants at night time.	Closed	-
COM-2013-022	08-Apr-2013	--	EPD	Environmental (Water)	The complainant alleged that oil was dumped from various vessels operating for HZMB HK projects near Tung Chung Development Pier over the past few months. Photos were provided by the complainant.	Portion X	The Contractor has checked the photos provided by the complainant and confirmed that the vessels and boats shown in the photos do not belong to Contract No. HY/2011/03. As this complaint is not related to this Contract, no follow up action is required. The Contractor has reminded their subcontractors to implement the measures recommended in the Spill Response Plan (SRP) in case of accidental release of oils from vessel.	Closed	-
COM-2013-022(2)	23-May-2013	09:15 hrs	EPD	Environmental (Water)	This complaint was a follow-up of a previous complaint received by EPD on 8 April 2013 regarding oil slicks caused by vessels. It was alleged that oil was still being dumped from various vessels operating for HZMB HK projects near Tung Chung Development Pier over the past few months. On the other hand, this complainant would also like to know if the Contractor has taken any measures to prevent such incidents. The complainant alleged that there were metal parts dropped on the ground creating noise at 12:59 on 1 May 2013.	Portion X	The Contractor has reminded their subcontractors to implement the measures recommended in the Spill Response Plan in case of accidental release of oils from vessel and handle the chemical waste (waste oil) in accordance with the requirements provided in the EM&A Manual.	Closed	-
COM-2013-023	02-May-2013	--	HyD	Environmental (Noise)	The complainant alleged that there were metal parts dropped on the ground creating noise at 12:59 on 1 May 2013.	WA6	If there are metal handling works, the Contractor will not carry out the metal handling works in early morning in order to minimize potential noise disturbance as far as practicable in future.	Closed	-
COM-2013-024	23-May-2013	09:50 hrs	EPD	Environmental (Noise)	A complaint was received on 23 May 2013 regarding noise generated from dropping metal parts on numerous occasions on the pier opposite Le Bleu Deux at around 05:45 to 10:00 hrs of 18 May 2013 and loading/unloading activities creating noise disturbance by the contractor of HY/2011/03.	WA6	If there are metal handling works, the Contractor will not carry out the metal handling works in early morning in order to minimize potential noise disturbance as far as practicable in future.	Closed	-
COM-2013-027	29-Jun-2013	10:02 hrs	RSS	Environmental (Noise)	A complaint was received on 29 June 2013 regarding noise generated from the works area near the site office (WA6) around 10:00 hrs on 29 June 2013.	WA6	The Contractor was recommended to minimize the potential noise impacts generated from the construction sites as far as practicable in future.	Closed	-
COM-2013-033	13-Sep-2013	Around 22:00 hrs	RSS	Environmental (Noise)	A complaint was received regarding the noise nuisance from barge at about 22:20 hrs on 13 September 2013 and 02:30 hrs on 14 September 2013.	Portion X	The Contractor has been reminded to comply with CNP conditions for construction works undertaken during restricted hours. To minimize the potential noise impact during restricted hours, the Contractor has implemented the following additional measures: - Minimized the quantities of plant used after 7pm as far as practicable; and - Regular review of working hours for night time works and switch off all unnecessary machinery and plants at night time.	Closed	-
COM-2013-034	17-Sep-2013	--	HyD	Environmental (Noise)	A complaint was received on 17 September 2013 regarding the noise nuisance from tree transplanting activities in the morning of 14 September 2013.	Portion Y	The Contractor has been reminded to comply with CNP conditions for construction works undertaken during restricted hours. To minimize the potential noise impact during restricted hours, the Contractor has implemented the following additional measures: - Minimized the quantities of plant used after 7pm as far as practicable; and - Regular review of working hours for night time works and switch off all unnecessary machinery and plants at night time.	Closed	-

HyD Contract No. HY/2011/03
 Hong Kong - Zhuhai - Macao Bridge Hong Kong Link Road
 Section between Scenic Hill and Hong Kong Boundary Crossing Facilities

Complaint Register

Complaint No.	Received Date	Received Time	Source	Category	Complaint Details	Location	Improvement Measures Taken	Status	Remarks
COM-2013-037	8-Oct-2013 9-Oct-2013 16-Oct-2013	--	Supervising Officer's Representative	Environmental (Noise)	The complainant complained the noise from barge operation from 21:30 to 22:30 hrs on 4 October 2013. The complainant complained that several loud bangs were heard starting from 21:00 hrs on 7 October 2013. The complainant complained that it was very noisy at the noon of 14 October 2013.	Portion X	The Contractor has been reminded to comply with CNP conditions for construction works undertaken during restricted hours. To minimize the potential noise impact during restricted hours, the Contractor has implemented the following additional measures: - minimize the quantities of plant used during restricted hours as far as practicable; and - regular review of working duration for restricted hours works and switch off all unnecessary machinery and plants during restricted hours.	Closed	-
COM-2013-041	31-Oct-2013	21:52 hrs	EPD	Environmental (Noise)	A complaint was received on 31 October 2013 regarding the noise generated from a barge being moved by a tug boat in the morning of 31 October 2013 (around 06:55).	N/A	The Contractor has been reminded to comply with CNP conditions for construction works undertaken during restricted hours. To minimize the potential noise impact during restricted hours, the Contractor has implemented the following additional measures: - minimize the quantities of plant used during restricted hours as far as practicable; and - regular review of working duration for restricted hours works and switch off all unnecessary machinery and plants during the night-time and early morning period (7pm to 7am).	Closed	-
COM-2013-043	11-Nov-2013	--	EPD	Environmental (Noise)	A complaint was received on 11 November 2013 regarding a barge moving through the southern channel of H/D's construction site after 23:00 hrs on 8 November 2013.	Portion X	The Contractor has been reminded to comply with CNP conditions for construction works undertaken during restricted hours. To minimize the potential noise impact during restricted hours, the Contractor has implemented the following additional measures: - minimize the quantities of plant used during restricted hours as far as practicable; and - regular review of working duration for restricted hours works and switch off all unnecessary machinery and plants during restricted hours.	Closed	-
COM-2013-045	27-Dec-2013	--	HyD	Environmental (Noise)	A complaint was received on 27 December 2013 regarding barges operated at the south channel of Portion X in the afternoon of 26 December 2013.	Portion X	The Contractor has been reminded to comply with CNP conditions for construction works undertaken during restricted hours. To minimize the potential noise impact during restricted hours, the Contractor has implemented the following additional measures: - minimize the quantities of plant used during restricted hours as far as practicable; and - regular review of working duration for restricted hours works and switch off all unnecessary machinery and plants during restricted hours.	Closed	-
COM-2014-046	16-Jan-2014	17:22 hrs	HyD	Environmental (Air Quality)	A complaint was received on 16 January 2014 regarding heavy exhausts generated at around 8 a.m. and 10 a.m. over past few months and or even mtnght.	N/A	The Contractor has implemented the following measure to minimize exhaust fumes generated from machinery: - Maintenance for the all machinery regularly.	Closed	-
COM-2014-048	18-Jan-2014	--	EPD	Environmental (Other: Blackish mud)	A complaint was received on 18 January 2014 regarding blackish mud along the edge of the construction site of Hong Kong-Zhuhai-Macao Bridge Hong Kong Project near the airport in the morning of 18 January 2014.	Portion X	Based on the investigation results, it is considered that the blackish mud raised in the complaint was not related to HKLR03 Contract. In this case, no follow up action is required.	Closed	-



路政署
HIGHWAYS DEPARTMENT

港珠澳大橋香港工程管理處
Hong Kong - Zhuhai - Macao Bridge
Hong Kong Project Management Office

Contract No. HY/2011/03 : Hong Kong-Zhuhai-Macao Bridge
Hong Kong Link Road - Section between Scenic Hill
and Hong Kong Boundary Crossing Facilities
16th Monthly EM&A Report

APPENDIX K

Environmental Licenses and Permits



中國建築工程(香港)有限公司
CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LTD.

Summary of Environmental Licences and Permits Application and Status

Environmental Permit

Date Application Submitted	Status	Date EP Issued	EP No.	EP Holder	Expiry Date
28.08.2013	VEP issued	05.09.2013	EP-352/2009/C	Highways Department	N/A
29.07.2013	VEP Issued	06.08.2013	EP-353/2009/G	Highways Department	N/A

Notification of Carrying Out Notifiable Works under Air Pollution Control (Construction Dust) Regulation

Date Notification Submitted	Notification Ref. No.	Valid Since	Expiry Date
25.05.2012	345690	01.06.2012	N/A

Billing Account for Disposal of Construction Waste

Date Application Submitted	Account No	Valid Since	Expiry Date
01.06.2012	7015313	27.06.2012	N/A

Chemical Waste Producer Registration

Date Registration Submitted	Waste Producer No.	Date Registration Issued	Major Waste Type	Expiry Date
20.06.2012	5213-950-C1169-43	12.07.2012	Spent lubricating oil, spent flammable liquid (diesel), surplus paint, spent organic solvent and their containers, spent batteries, soil containing mineral oil	N/A

Wastewater Discharge License

Item No.	Date Application Submitted	Area Applied	Status	Expiry Date
1	22.06.2012	Site Office for Supervising Officer (WA6)	Application Ref. No. 346651 Letter from the EPD (Ref: EP/RS/0000346267) dated 19.07.2012 confirming that license under WPCO is not required.	N/A
2	04.07.2012	Site Office for China States (WA6)	Application Ref. No. 346982 Water Discharge License WT00014182-2012 was granted	Valid until 30 Sept

					on 20 Sep 2012	2017
3.	31.07.2012	Portion B, Portion X & Portion Y		Application Ref. No. 348019 Water Discharge License WT00014118-2012 was granted on 20 Sep 2012		Valid until 30 Sep 2017.
4.	15.01.2013	WA 3		Application Ref No.356237 Water Discharge License Ref. WT00015423-2013 was granted on 4 Mar 2013		Valid until 31/03/2018
5.	15.01.2013	WA 4		Application Ref No. 356240 Applied for Water Discharge License and pending for approval		N/A
6	02.04.2013	Airport Road (Southern)		Water discharge license Ref. WT00015866-2013 was granted on 29 Apr 2013		Valid until 30/04/2018
7	02.04.2013	Airport Road (Northern)		Water discharge license Ref. WT00015865-2013 was granted on 29 Apr 2013		Valid until 30/04/2018

Construction Noise Permit

Item No.	Date Application Submitted	Works Area Applied	Description	Status	CNP No.	Validity of CNP	
						From	To
1	08.07.2013	Airport Road (CY Team)	Lighting / Wastewater treatment	CNP issued on 25.07.2013	GW-RS0836-13	13.08.2013 23:00	12.02.2014 0700
2	30.09.2013	WA3	Stockpiling/ wastewater treatment	CNP issued on 13 Sept 2013	GW-RS1012-13	28.09.2013 1900	27.03.2014 0700
3	13.09.2013	West Portal (Terry's Team)	Canopy/ grouting works	CNP issued on 27.09.2013	GW-RS1076	27.09.2013 1900	26.03.2014 0700
4	27.09.2013	Portion X	Marine Works	CNP issued on 15.10.2013	GW-RS1144-13	15.10.2013 2300	11.04.2014 0700
5	05.10.2013	Portion X	Marine Works	CNP issued on 22.10.2013	GW-RS1170-13	22.10.2013 1900	18.04.2014 2300
6	21.10.2013	Kwo Lo Wan	Trial for Jet grouting	CNP issued on 04.11.2013	GW-RS1214-13	19.11.2013 0000	18.01.2014 0700
7	30.10.2013	Kwo Lo Wan	Pile piling	CNP issued on 07.11.2013	GW-RS1253-13	04.12.2013 0000	03.06.2014 2400

Item No.	Date Application Submitted	Works Area Applied	Description	Status	CNP No.	Validity of CNP	
						From	To
8	04.11.2013	Kwo Lo Wan	Pile piling	CNP issued on 15.11.2013	GW-RS1303-13	04.12.2013 1900	03.06.2014 2300
9	08.11.2013	Tung Fai Road	Water Pipes installation	CNP issued on 15.11.2013	GW-RS1308-13	25.11.2013 2100	24.05.2014 0700
10	12.11.2013	WA4	Loading/ Unloading of stockpiles	CNP issued on 26.11.2013	GW-RW0842-13	04.12.2013 1900	03.06.2014 2300
11	18.11.2013	Portion X	Stone Column works during runway closure	CNP issued on 04.12.2013	GW-RS1351-13	05.12.2013 0130	04.02.2014 0700
12	21.11.2013	S14	Grouting works	CNP issued on 05.12.2013	GW-RS1411-13	06.12.2013 1900	05.06.2014 2300
13	21.11.2013	N13	Billboard construction works	CNP issued on 04.12.2013	GW-RS1401-13	06.12.2013 0000	17.02.2014
14	16.12.2013	S15	Pumping test	CNP issued on 30.12.2013	GW-RS1464-13	31.12.2013 2300	31.01.2014 0700
15	19.12.2013	West Portal (Terry's Team)	Canopy/ grouting works	CNP issued on 02.01.2013	GW-RS1504-13	03.01.2014 1900	02.07.2014 2400
16	19.12.2013	KLW	Jet Grouting Trial	CNP issued on 02.01.2013	GW-RS1487-13	19.01.2014 0000	30.03.2014 0700
17	03.01.2014	Kwo Lo Wan	TTA Works	CNP issued on 17.01.2014	GW-RS0021-14	21.01.2014 0000	20.02.2014 0500
18	14.01.2014	Portion X	Stone Column works during runway closure	CNP issued on 28.01.2014	GW-RS0060-14	05.02.2014 0130	04.04.2014 0700
19	17.01.2014	Airport Road 1900 (CY Team)	Rock Excavation	CNP issued on 30.01.2014	GW-RS0070-14	04.02.2014 1900	03.08.2014 2300
20	20.01.2014	Airport Road 2300(CY Team)	Wastewater treatment	CNP issued on 30.01.2014	GW-RS0074-14	12.02.2014 2300	11.08.2014 0700



APPENDIX L

Implementation Schedule of Environmental Mitigation Measures



EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	Implementation Status
Air Quality							
S5.5.6.1	A1	<p>1) The contractor shall follow the procedures and requirements given in the Air Pollution Control (Construction Dust) Regulation</p> <p>2) Proper watering of exposed spoil should be undertaken throughout the construction phase:</p> <ul style="list-style-type: none"> Any excavated or stockpile of dusty material should be covered entirely by impervious sheeting or sprayed with water to maintain the entire surface wet and then removed or backfilled or reinstated where practicable within 24 hours of the excavation or unloading; Any dusty materials remaining after a stockpile is removed should be wetted with water and cleared from the surface of roads; A stockpile of dusty material should not be extend beyond the pedestrian barriers, fencing or traffic cones. The load of dusty materials on a vehicle leaving a construction site should be covered entirely by impervious sheeting to ensure that the dusty materials do not leak from the vehicle; Where practicable, vehicle washing facilities with high pressure water jet should be provided at every discernible or designated vehicle exit point. The area where vehicle washing takes place and the road section between the washing facilities and the exit point should be paved with concrete, bituminous materials or hardcores; 	<p>Good construction site practices to control the dust impact at the nearby sensitive receivers to within the relevant criteria.</p>	Contractor	All construction sites	Construction stage	✓
S5.5.6.2	A2	<ul style="list-style-type: none"> When there are open excavation and reinstatement works, hoarding of not less than 2.4m high should be provided as far as practicable along the site boundary with provision for public crossing. Good site practice shall also be adopted by the Contractor to ensure the conditions of the hoardings are properly maintained throughout the construction period; 	<p>Good construction site practices to control the dust impact at the nearby sensitive receivers to within the relevant criteria.</p>	Contractor	All construction sites	Construction stage	✓
S5.5.6.2	A2	<ul style="list-style-type: none"> When there are open excavation and reinstatement works, hoarding of not less than 2.4m high should be provided as far as practicable along the site boundary with provision for public crossing. Good site practice shall also be adopted by the Contractor to ensure the conditions of the hoardings are properly maintained throughout the construction period; 	<p>Good construction site practices to control the dust impact at the nearby sensitive receivers to within the relevant criteria.</p>	Contractor	All construction sites	Construction stage	✓

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	Implementation Status
S5.5.6.2	A2	<p>The portion of any road leading only to construction site that is within 30m of a vehicle entrance or exit should be kept clear of dusty materials;</p> <ul style="list-style-type: none"> Surfaces where any pneumatic or power-driven drilling, cutting, polishing or other mechanical breaking operation takes place should be sprayed with water or a dust suppression chemical continuously; Any area that involves demolition activities should be sprayed with water or a dust suppression chemical immediately prior to, during and immediately after the activities so as to maintain the entire surface wet; Where a scaffolding is erected around the perimeter of a building under construction, effective dust screens, sheeting or netting should be provided to enclose the scaffolding from the ground floor level of the building, or a canopy should be provided from the first floor level up to the highest level of the scaffolding; Any skip hoist for material transport should be totally enclosed by impervious sheeting; Every stock of more than 20 bags of cement or dry pulverized fuel ash (PFA) should be covered entirely by impervious sheeting or placed in an area sheltered on the top and the 3 sides; 	<p>Good construction site practices to control the dust impact at the nearby sensitive receivers to within the relevant criteria.</p>	Contractor	All construction sites	Construction stage	✓
S5.5.6.2	A2	<ul style="list-style-type: none"> Cement or dry PFA delivered in bulk should be stored in a closed silo fitted with an audible high level alarm which is interlocked with the material filling line and no overfilling is allowed; Loading, unloading, transfer, handling or storage of bulk cement or dry PFA should be carried out in a totally enclosed system or facility, and any vent or exhaust should be fitted with an effective fabric filter or equivalent air pollution control system; and Exposed earth should be properly treated by compaction, turfing, hydroseeding, vegetation planting or sealing with latex, vinyl, bitumen, shotcrete or other suitable surface stabiliser within six months after the last construction activity on the construction site or part of the construction site where the exposed earth lies. 	<p>Good construction site practices to control the dust impact at the nearby sensitive receivers to within the relevant criteria.</p>	Contractor	All construction sites	Construction stage	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	Implementation Status
S5.5.6.3	A3	3) The Contractor should undertake proper watering on all exposed spoil (with at least 8 times per day) throughout the construction phase.	Control dust	Contractor	All construction sites	Construction stage	✓
S5.5.6	A5	5) Implement regular dust monitoring under EM&A programme during the construction stage.	Monitor the 24 hr and 1hr TSP levels at the representative dust monitoring stations to ensure compliance with relevant criteria throughout the construction period	Contractor	Selected representative dust monitoring station	Construction stage	✓
S5.5.71	A6	The following mitigation measures should be adopted to prevent fugitive dust emissions for concrete batching plant: <ul style="list-style-type: none"> • Loading, unloading, handling, transfer or storage of any dusty materials should be carried out in totally enclosed system; • All dust-laden air or waste gas generated by the process operations should be properly extracted and vented to fabric filtering system to meet the emission limits for TSP; • Vents for all silos and cement/pulverised fuel ash (PFA) weighing scale should be fitted with fabric filtering system; • The materials which may generate airborne dusty emissions should be wetted by water spray system; • All receiving hoppers should be enclosed on three sides up to 3m above unloading point; • All conveyor transfer points should be totally enclosed; • All access and route roads within the premises should be paved and wetted; and • Vehicle cleaning facilities should be provided and used by all concrete trucks before leaving the premises to wash off any dust on the wheels and/or body. 	Monitor the 24 hr and 1hr TSP levels at the representative dust monitoring stations to ensure compliance with relevant criteria throughout the construction period	Contractor	Selected representative dust monitoring station	Construction stage	✓

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	Implementation Status
S5.5.2.7	A7	<p>The following mitigation measures should be adopted to prevent fugitive dust emissions at barging point:</p> <ul style="list-style-type: none"> •All road surface within the barging facilities will be paved; •Dust enclosures will be provided for the loading ramp; •Vehicles will be required to pass through designated wheels wash facilities; and •Continuous water spray at the loading points. 	Control dust	Contractor	All construction sites	Construction stage	✓
Noise							
S6.4.10	N1	<p>1) Use of good site practices to limit noise emissions by considering the following:</p> <ul style="list-style-type: none"> •only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction programme; •machines and plant (such as trucks, cranes) that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum; •plant known to emit noise strongly in one direction, where possible, be orientated so that the noise is directed away from nearby NSRs; •silencers or mufflers on construction equipment should be properly fitted and maintained during the construction works •mobile plant should be sited as far away from NSRs as possible and practicable; •material stockpiles, mobile container site officer and other structures should be effectively utilised, where practicable, to screen noise from on-site construction activities. 	Control airborne noise by means of good site practices	Contractor	All construction sites	Construction stage	✓

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	Implementation Status
S6.4.11	N2	2) Install temporary hoarding located on the site boundaries between noisy construction activities and NSRs. The conditions of the hoardings shall be properly maintained throughout the construction period.	Reduce the construction noise levels at low-level zone of NSRs through partial screening.	Contractor	All construction sites	Construction stage	✓
S6.4.12	N3	3) Install movable noise barriers (typically density @ 14kg/m ²), acoustic mat or full enclosure close to noisy plants including air compressor, generators, saw.	Screen the noisy plant items to be used at all construction sites	Contractor	For plant items listed in Appendix 6D of the EIA report at all construction sites	Construction stage	✓
S6.4.13	N4	4) Select .Quiet plants, which comply with the BS 5228 Part 1 or TM standards.	Reduce the noise levels of plant items	Contractor	For plant items listed in Appendix 6D of the EIA report at all construction sites	Construction stage	✓
S6.4.14	N5	5) Sequencing operation of construction plants where practicable.	Operate sequentially within the same work site to reduce the construction airborne noise	Contractor	All construction sites where practicable	Construction stage	✓
	N6	6) Implement a noise monitoring under EM&A programme.	Monitor the construction noise levels at the selected representative locations	Contractor	Selected representative noise monitoring station	Construction stage	✓
Waste Management (Construction waste)							
S6.3.8	WM1	<u>Construction and Demolition Material</u> The following mitigation measures should be implemented in handling the waste: •Maintain temporary stockpiles and reuse excavated fill material for backfilling and reinstatement; •Carry out on-site sorting; •Make provisions in the Contract documents to allow and promote the use of recycled aggregates where appropriate; •Adopt .Selective Demolition. technique to demolish the existing structures and facilities	Good site practice to minimize the waste generation and recycle the C&D materials as far as practicable so as to reduce the amount for final disposal	Contractor	All construction sites	Construction stage	✓

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	Implementation Status
S8.3.9-S8.3.11	WM2	<p>with a view to recovering broken concrete effectively for recycling purpose, where possible;</p> <ul style="list-style-type: none"> Implement a trip-ticket system for each works contract to ensure that the disposal of C&D materials are properly documented and verified; and Implement an enhanced Waste Management Plan similar to ETWBTC (Works) No. 19/2005, Environmental Management on Construction Sites, to encourage on-site sorting of C&D materials and to minimize their generation during the course of construction. In addition, disposal of the C&D materials onto any sensitive locations such as agricultural lands, etc. should be avoided. The Contractor shall propose the final disposal sites to the Project Proponent and get its approval before implementation <p>C&D Waste</p> <ul style="list-style-type: none"> Standard formwork or pre-fabrication should be used as far as practicable in order to minimise the arising of C&D materials. The use of more durable formwork or plastic facing for the construction works should be considered. Use of wooden hoardings should not be used, as in other projects. Metal hoarding should be used to enhance the possibility of recycling. The purchasing of construction materials will be carefully planned in order to avoid over ordering and wastage. The Contractor should recycle as much of the C&D materials as possible on-site. Public fill and C&D waste should be segregated and stored in different containers or skips to enhance reuse or recycling of materials and their proper disposal. Where practicable, concrete and masonry can be crushed and used as fill. Steel reinforcement bar can be used by scrap steel mills. Different areas of the sites should be considered for such segregation and storage. 	<p>Good site practice to minimize the waste generation and recycle the C&D materials as far as practicable so as to reduce the amount for final disposal</p>	Contractor	All construction sites	Construction stage	✓

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	Implementation Status
S8.2.12- S8.3.15	WM3	<p>Chemical Waste</p> <ul style="list-style-type: none"> Chemical waste that is produced, as defined by Schedule 1 of the Waste Disposal (Chemical Waste) (General) Regulation, should be handled in accordance with the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. Containers used for the storage of chemical wastes should be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed; have a capacity of less than 450 liters unless the specification has been approved by the EPD; and display a label in English and Chinese in accordance with instructions prescribed in Schedule 2 of the regulation.. The storage area for chemical wastes should be clearly labeled and used solely for the storage of chemical waste; enclosed on at least 3 sides; have an impermeable floor and bunding of sufficient capacity to accommodate 110% of the volume of the largest container or 20 % of the total volume of waste stored in that area, whichever is the greatest; have adequate ventilation; covered to prevent rainfall entering; and arranged so that incompatible materials are adequately separated. Disposal of chemical waste should be via a licensed waste collector; be to a facility licensed to receive chemical waste, such as the Chemical Waste Treatment Centre which also offers a chemical waste collection service and can supply the necessary storage containers; or be to a reuser of the waste, under approval from the EPD. 	Control the chemical waste and ensure proper storage, handling and disposal.	Contractor	All construction sites	Construction stage	✓

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	Implementation Status
S8.3.16	WM4	<p><u>Sewage</u></p> <ul style="list-style-type: none"> • Adequate numbers of portable toilets should be provided for the workers. The portable toilets should be maintained in a state, which will not deter the workers from utilizing these portable toilets. Night soil should be collected by licensed collectors regularly. 	<p>Proper handling of sewage from worker to avoid odour, pest and litter impacts</p>	Contractor	All construction sites	Construction stage	✓
S8.3.17	WM5	<p><u>General Refuse</u></p> <ul style="list-style-type: none"> • General refuse generated on-site should be stored in enclosed bins or compaction units separately from construction and chemical wastes. • A reputable waste collector should be employed by the Contractor to remove general refuse from the site, separately from construction and chemical wastes, on a daily basis to minimize odour, pest and litter impacts. Burning of refuse on construction sites is prohibited by law. • Aluminium cans are often recovered from the waste stream by individual collectors if they are segregated and made easily accessible. Separate labelled bins for their deposit should be provided if feasible. • Office wastes can be reduced through the recycling of paper if volumes are large enough to warrant collection. Participation in a local collection scheme should be considered by the Contractor. In addition, waste separation facilities for paper, aluminium cans, plastic bottles etc., should be provided. • Training should be provided to workers about the concepts of site cleanliness and appropriate waste management procedure, including reduction, reuse and recycling of wastes. 	<p>Minimize production of the general refuse and avoid odour, pest and litter impacts</p>	Contractor	All construction sites	Construction stage	✓

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	Implementation Status
Water quality (Construction Phase)							
S9.11.1-S9.11.1.2	W1	<p>Mitigation during the marine works to reduce impacts to within acceptable levels have been recommended and will comprise a series of measures that restrict the method and sequencing of filling work, as well as protection measures. Details of the measures are provided below and summarised in the Environmental Mitigation Implementation Schedule in EM&A Manual.</p> <ul style="list-style-type: none"> • Construction of seawalls to be advanced by at least 100-200m before the filling can commence. It should be noted that the protection by advanced seawall is a dynamic process depending on the progress of the construction activities. The part of the works where such measures can be undertaken for the majority of the time includes the following locations: <ul style="list-style-type: none"> - TMCLKL northern reclamation; - TMCLKL southern reclamation (after formation of the nips); - Reclamation filling for Portion 1 of HKLR; • Single layer silt curtains will be applied around all works; • silt curtain shall be fully maintained throughout the works. 	To control construction water quality	Contractor	During seawall filling	Construction stage	✓
S9.11.1-S9.11.1.2	W1	<ul style="list-style-type: none"> • Single layer silt curtains will be applied around all works; • silt curtain shall be fully maintained throughout the works. 	To control construction water quality	Contractor	During seawall filling	Construction stage	✓

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	Implementation Status
S9.11.1- S9.11.1. 2	W1	<p>Recommended Mitigation Measures</p> <ul style="list-style-type: none"> •excess material shall be cleaned from the decks and exposed fittings of barges before the vessel is moved; •all vessels shall be sized such that adequate clearance is maintained between vessels and the sea bed at all states of the tide to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash; and •the works shall not cause foam, oil, grease, litter or other objectionable matter to be present in the water within and adjacent to the works site. 	To control construction water quality	Contractor	During seawall filling	Construction stage	✓
S9.11.1- S9.11.1. 2	W1	<ul style="list-style-type: none"> •Mechanical grabs shall be designed and maintained to avoid spillage and should seal tightly while being lifted; •barges shall have tight fitting seals to their bottom openings to prevent leakage of material; •any pipe leakages shall be repaired quickly. Plant should not be operated with leaking pipes; •loading of barges shall be controlled to prevent splashing of filling materials to the surrounding water. •Barges shall not be filled to a level which will cause overflow of materials or pollution of water during loading or transportation; •adequate freeboard shall be maintained on barges to reduce the likelihood of decks being washed by wave action; •all vessels shall be sized such that adequate clearance is maintained between vessels and the sea bed at all states of the tide to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash; and •the works shall not cause foam, oil, grease, litter or other objectionable matter to be present in the water within and adjacent to the works site. 	To control construction water quality	Contractor	During seawall filling	Construction stage	✓

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	Implementation Status
		into the drainage system, and to prevent storm run-off from getting into foul sewers; <ul style="list-style-type: none"> • discharges of surface run-off into foul sewers must always be prevented in order not to unduly overload the foul sewerage system. • Implement a water quality monitoring programme 					
S9.14	W3		Control water quality	Contractor	At identified monitoring	During construction	✓
Ecology (Construction Phase)							
S10.7	E1	<ul style="list-style-type: none"> • Good site practices to avoid runoff entering woodland habitats in Scenic Hill; • Reinstate works areas in Scenic Hill; • Avoid stream modification in Scenic Hill. 	Avoid potential disturbance on habitat of Romer's Tree Frog in Scenic Hill	Designer; Contractor	Scenic Hill	During construction	✓
S10.7	E2	<ul style="list-style-type: none"> • Install silt curtain during the construction; • Construct seawall prior to reclamation filling where practicable; • Good site practices; • Site runoff control3; • Spill response plan. 	Minimise marine water quality impacts	Contractor	Seawall, reclamation area	During construction	✓
S10.7	E4	<ul style="list-style-type: none"> • Watering to reduce dust generation; prevention of siltation of freshwater habitats; Site runoff should be desilted, to reduce the potential for suspended sediments, organics and other contaminants to enter streams and standing freshwater. 	Prevent Sedimentation from Land-based works areas	Contractor	Land-based works areas	During construction	✓
S10.7	E5	<ul style="list-style-type: none"> • Good site practices, including strictly following the permitted works hours, using quieter machines where practicable, and avoiding excessive lightings during night time 	Prevent disturbance to terrestrial fauna and habitats	Contractor	Land-based works areas	During construction	✓

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	Implementation Status
S10.7	E6	<ul style="list-style-type: none"> • Dolphin Exclusion Zone; • Dolphin watching plan . 	Minimize temporary marine habitat loss impact to dolphins	Contractor	Marine works	During marine works	✓
S10.7	E7	<ul style="list-style-type: none"> • Decouple compressors and other equipment on working vessels; • Avoidance of percussive piling; • Marine underwater noise monitoring; • Temporal suspension of drilling bored pile casing in rock during peak dolphin calving season in May and June; • Handling with care for the installation of sheet piling for reclamation site 	Minimize temporary marine habitat loss impact to dolphins	Contractor	Marine works	During marine works	✓
S10.7	E8	<ul style="list-style-type: none"> • Control vessel speed; • Skipper training; • Predefined and regular routes for working vessels; avoid Brothers Islands. 	Minimise marine traffic disturbance on dolphins	Contractor	Marine traffic	During marine works	✓
S10.10	E9	<ul style="list-style-type: none"> • Dolphin vessel monitoring; • Mudflat ecological monitoring. 	Minimise marine traffic disturbance on dolphins	Contractor	North Lantau and West Lantau	Prior to construction, during construction, and 1 year after operation	✓
Ecology (Operation Phase)							
S10.7	E10	<ul style="list-style-type: none"> • Preconstruction dive survey for corals 	Minimise impacts on marine ecology	Contractor	The marine pier sites nearest to intertidal zone and along the shore of the HKLR reclamation site	Prior to marine construction works in these locations	✓

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	Implementation Status
Fisheries							
S11.7	F2	<ul style="list-style-type: none"> • Reduce re-suspension of sediments • Good site practices • Spill response plan 	Minimise marine water quality impacts	Contractor	Seawall, reclamation area	During construction	✓
S11.7	F3	<ul style="list-style-type: none"> • Install silt-grease trap in the drainage system collecting surface runoff 	Minimise impacts on marine water quality impacts	Designer	Reclamation area	During construction	✓
S11.7	F4	<ul style="list-style-type: none"> • Maritime Oil Spill Response Plan (MOSRP); • Contingency plan. 	Minimise impacts on marine water quality impacts	Management	HKLR	During operation stage	✓
Landscape & Visual (Detailed Design Phase)							
S14.3.3.1	LV1	<p>General design measures include:</p> <ul style="list-style-type: none"> • Roadside planting and planting along the edge of the reclamation is proposed; • Transplanting of mature trees in good health and amenity value where appropriate and reinstatement of areas disturbed during construction by compensatory hydro-seeding and planting; • Protection measures for the trees to be retained during construction activities; • Optimizing the sizes and spacing of the bridge columns; • Fine-tuning the location of the bridge columns to avoid visually sensitive locations; • Aesthetic design of the bridge form and its structural elements for HKLR, e.g. parapet, soffit, columns, lightings and so on; <p>Considering the decorative urban design elements for HKLR, e.g. decorative road lightings;</p>	Minimise visual & landscape impact	Detailed designer	HKLR	Design stage	

EIA Ref.	EIM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	Implementation Status
S14.3.3.1	LV1	<p>Recommended Mitigation Measures</p> <ul style="list-style-type: none"> •Maximizing new tree, shrub and other vegetation planting to compensate tree felled and vegetation removed; •Providing planting area around peripheral of HKLR for tree planting screening effect. •Providing salt-tolerant native trees along the planter strip at affected seawall and newly reclaimed coastline. •Providing salt-tolerant native trees along the planter strip at affected seawall and newly reclaimed coastline. •For HKLR, providing aesthetic design on the viaduct, tunnel portals, at-grade roads and reclamation (e.g. subtle colour tone and slim form for viaduct to minimize the bulkiness of the structure and to blend the viaduct better with the background environment, featured form of tunnel portals, roadside planting along at-grade roads and landscape berm on & planting along edge of reclamation area) to beautify the HKLR alignment (refer to Figure 14.4.3). 	Minimise visual & landscape impact	Detailed designer	HKLR	Design stage	
Landscape & Visual (Construction Phase)							
S14.3.3.3	LV2	<p>Mitigate both Landscape and Visual Impacts</p> <p>G1. Grass-hydroseed bare soil surface and stock pile areas.</p> <p>G2. Add planting strip and automatic irrigation system if appropriate at some portions of bridge or footbridge to screen bridge and traffic.</p> <p>G3. For HKLR, providing aesthetic design on the viaduct, tunnel portals, at-grade roads and reclamation (e.g. subtle colour tone and slim form for viaduct, featured form of tunnel portals, roadside planting along at-grade roads and landscape berm on & planting along edge of reclamation area) to beautify the HKLR alignment.</p> <p>G4. Vegetation reinstatement and upgrading to disturbed areas.</p>	Minimise visual & landscape impact	Contractor	HKLR	Construction stage	✓

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to implement the measures?	Implementation Status
S14.3.3.3	LV3	<p>G5. Maximize new tree, shrub and other vegetation planting to compensate tree felled and vegetation removed.</p> <p>G6. Provide planting area around peripheral of and within HKLR for tree screening buffer effect.</p> <p>G7. Plant salt tolerant native tree and shrubs etc along the planterstrip at affected seawall.</p> <p>G8. Reserve of loose natural granite rocks for re-use. Provide new coastline to adopt .natural-look. by means of using armour rocks in the form of natural rock materials and planting strip area accommodating screen buffer to enhance .natural-look. of the new coastline (see Figure 14.4.2 for example).</p>					✓
EM&A							
S15.5- S15.6	EM2	<p>1) An Environmental Team needs to be employed as per the EM&A Manual.</p> <p>2) Prepare a systematic Environmental Management Plan to ensure effective implementation of the mitigation measures.</p> <p>3) An environmental impact monitoring needs to be implementing by the Environmental Team to ensure all the requirements given in the EM&A Manual are fully complied with.</p>	Perform environmental monitoring & auditing	Contractor	All construction sites	Construction stage	✓



路政署
HIGHWAYS DEPARTMENT

港珠澳大橋香港工程管理處
Hong Kong - Zhuhai - Macao Bridge
Hong Kong Project Management Office

Contract No. HY/2011/03 : Hong Kong-Zhuhai-Macao Bridge
Hong Kong Link Road - Section between Scenic Hill
and Hong Kong Boundary Crossing Facilities
16th Monthly EM&A Report

APPENDIX M

Record of “Notification of Environmental Quality Limit Exceedances”



中國建築工程(香港)有限公司
CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LTD.

**Contract No. HY/2011/03 -
 Hong Kong- Zhuhai- Macao Bridge
 Hong Kong Link Road Section between Scenic Hill and Hong Kong Boundary Crossing Facilities
 Notifications of Environmental Quality Limits Exceedances** Notification No.: 168 (ver1)

Date of Notification: 12 February 2014

Works Inspected: Data collected from water sampling works on 3 January 2014 and the test report was issued on 10 January 2014.

Monitoring Location: Water Quality Monitoring Stations

Parameter: Dissolved Oxygen (DO)/ Suspended Solids (SS)/ Turbidity (TURB)

Action & Limit Level (AL & LL) / Measured Level:

PARAM	STATION	DEPTH	AL (mg/L)	LL (mg/L)	MEASURED AT MID-EBB TIDE (mg/L)	MEASURED AT MID-FLOOD TIDE (mg/L)
SS	SR3	DA	23.5 and 120% of upstream control station's suspended solid at the same tide of the same day (i.e. CS2: 7.32 x 120% = 8.8 mg/L for mid ebb) AND CS(Mf)5: 6.85 x 120% = 8.2 mg/L for mid flood)	34.4 and 130% of upstream control station's suspended solid at the same tide of the same day (i.e. CS2: 7.32 x 130% = 9.5 mg/L for mid ebb) AND CS(Mf)5: 6.85 x 130% = 8.9 mg/L for mid flood)	8.4	31.3
SS	SR5	DA			7.8	26.7

Notes:
 DA means depth average.
Bold Italic means AL exceedances.
Bold Italic with underline means LL exceedances.

Possible reason for Action or Limit Level Non-compliance:

On 3 January 2014, two AL exceedances at stations SR3 and SR5 were recorded during mid-flood tide.

The exceedances have been investigated and are considered unlikely to be related to contract works due to the following reasons:

1. Rock filling and sand filling at Zone 1, sand filling, removal of temporary stone platform and stone column works at Zone 2, sand filling and removal of temporary stone platform at Zone 3A were carried within silt curtain as recommended in the EIA Report.
2. The ranges of suspended solid at stations SR3 and SR5 during the baseline monitoring are shown as below:

Station	Range of Suspended Solid (mg/L) Mid- Ebb Tide		Range of Suspended Solid (mg/L) Mid- Flood Tide	
SR3	6.7	to	31	7.6 to 28
SR5	6.7	to	16.5	6.5 to 31.2

The measured value at station SR5 was within the range of suspended solid during baseline monitoring for mid-flood tide while the measured value at station SR3 was above the range of suspended solid during baseline monitoring for mid-flood tide. However, there were no specific activities recorded during the monitoring period that would cause any significant impacts on the monitoring results

3. No leakage of turbid water or any abnormality or malpractice was observed during the sampling exercise.

As such, the suspended solid level is considered to be attributed to other external factors, rather than the contract works.

Actions taken/ to be taken:

As the suspended solid level recorded beyond the water quality criteria is not related to contract works, no immediate actions are considered necessary.

Location Plan:



Reviewed by : Claudine Lee

Title : ET Leader



Date : 12 February 2014

Copied to : Supervising Officer, IEC, EPD, Contractor, ENPO

Contract No. HY/2011/03 - Hong Kong- Zhuhai- Macao Bridge
Hong Kong Link Road Section between Scenic Hill and Hong Kong Boundary Crossing Facilities
Notifications of Environmental Quality Limits Exceedances Notification No.: 169 (ver1)

Date of Notification: 12 February 2014

Works Inspected: Data collected from water sampling works on 6 January 2014 and the test report was issued on 10 January 2014.

Monitoring Location: Water Quality Monitoring Stations

Parameter: Dissolved Oxygen (DO)/ Suspended Solids (SS)/ Turbidity (TURB)

Action & Limit Level (AL & LL) / Measured Level:

PARAM	STATION	DEPTH	AL (mg/L)	LL (mg/L)	MEASURED AT MID-EBB TIDE (mg/L)	MEASURED AT MID-FLOOD TIDE (mg/L)
SS	IS(Mf)9	DA	23.5 and 120% of upstream control station's suspended solid at the same tide of the same day (i.e. CS2: 6.43 x 120% = 7.7 mg/L for mid ebb) AND CS(Mf)5: 7.22 x 120% = 8.7 mg/L for mid flood)	34.4 and 130% of upstream control station's suspended solid at the same tide of the same day (i.e. CS2: 6.43 x 130% = 8.4 mg/L for mid ebb) AND CS(Mf)5: 7.22 x 130% = 9.4 mg/L for mid flood)	7.2	25.7

Notes:
 DA means depth average.
Bold Italic means AL exceedances.
Bold Italic with underline means LL exceedances.

Possible reason for Action or Limit Level Non-compliance:

On 6 January 2013, an AL exceedance at station IS(Mf)9 was recorded during mid-flood tide.

The exceedance has been investigated and is considered unlikely to be related to contract works due to the following reasons:

- Sand filling, rock filling and sand pumping at Zone 1, stone column works, levelling of temporary stone platform, removal of temporary stone platform and sand filling at Zone 2, sand filling and removal of temporary stone platform at Zone 3A were carried within silt curtain as recommended in the EIA Report.
- The ranges of suspended solid at stations IS(Mf)9 during the baseline monitoring are shown as below:

Station	Range of Suspended Solid (mg/L) Mid- Ebb Tide	Range of Suspended Solid (mg/L) Mid- Flood Tide
IS(Mf)9	5.5 to 20.1	7.3 to 26

The measured value at station IS(Mf)9 was within the range of suspended solid during baseline monitoring for mid-flood tide.

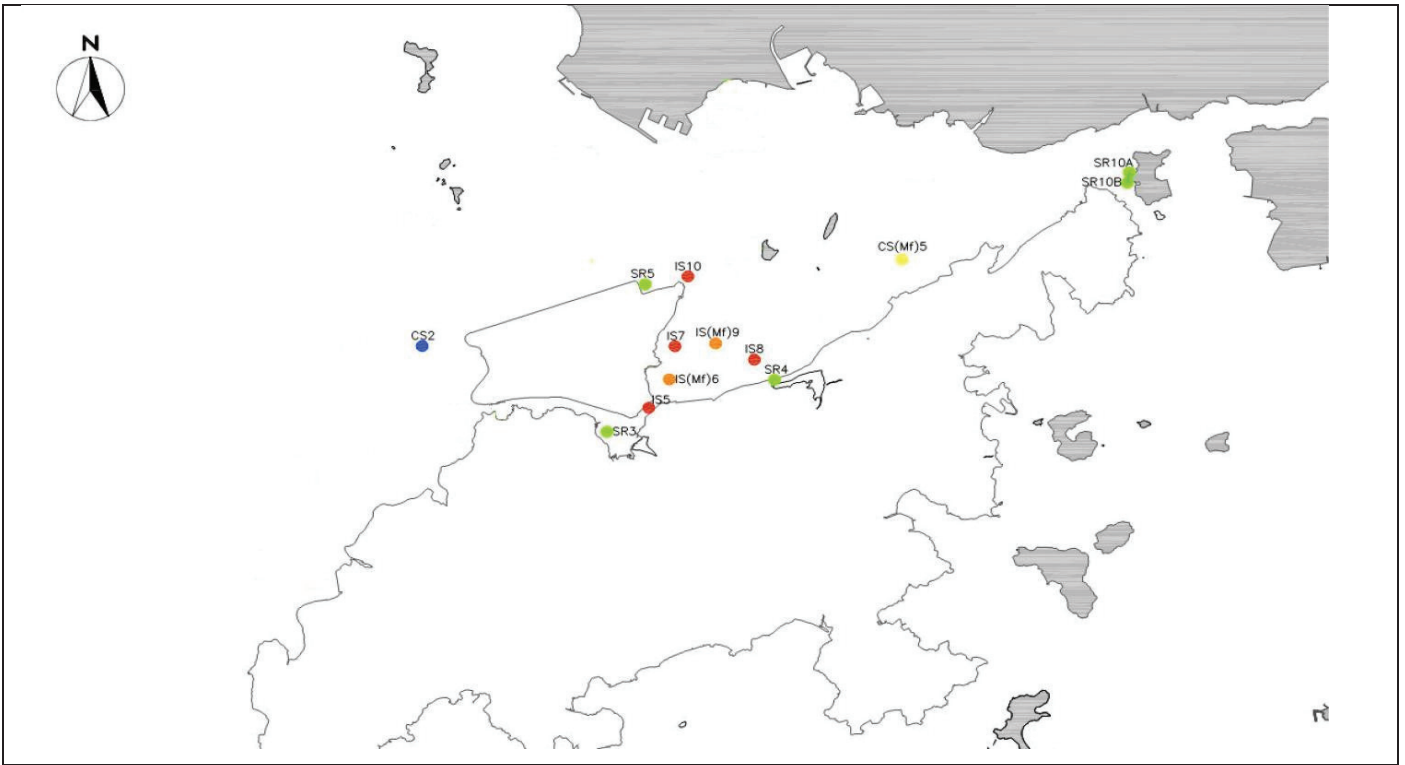
- There were no specific activities recorded during the monitoring period that would cause any significant impacts on the monitoring results
- No leakage of turbid water or any abnormality or malpractice was observed during the sampling exercise.

As such, the suspended solid level is considered to be attributed to other external factors, rather than the contract works.

Actions taken/ to be taken:

As the suspended solid level recorded beyond the water quality criteria is not related to contract works, no immediate actions are considered necessary.

Location Plan:



Reviewed by : Claudine Lee

Title : ET Leader



Date : 12 February 2014

Copied to : Supervising Officer, IEC, EPD, Contractor, ENPO

Contract No. HY/2011/03 -

Hong Kong- Zhuhai- Macao Bridge

Hong Kong Link Road Section between Scenic Hill and Hong Kong Boundary Crossing Facilities

Notifications of Environmental Quality Limits Exceedances

Notification No.: 170

Date of Notification: 4 February 2014

Works Inspected: Data collected from water sampling works on 10 January 2014 and the test report was issued on 17 January 2014.

Monitoring Location: Water Quality Monitoring Stations

Parameter: Dissolved Oxygen (DO)/ Suspended Solids (SS)/ Turbidity (TURB)

Action & Limit Level (AL & LL) / Measured Level:

PARAM	STATION	DEPTH	AL (mg/L)	LL (mg/L)	MEASURED AT MID-EBB TIDE (mg/L)	MEASURED AT MID-FLOOD TIDE (mg/L)
SS	IS5	DA	23.5 and 120% of upstream control station's suspended solid at the same tide of the same day (i.e. CS2: 4.65 x 120% = 5.6 mg/L for mid ebb) AND CS(Mf)5: 2.68 x 120% = 3.2 mg/L for mid flood)	34.4 and 130% of upstream control station's suspended solid at the same tide of the same day (i.e. CS2: 4.65 x 130% = 6.0 mg/L for mid ebb) AND CS(Mf)5: 2.68 x 130% = 3.5 mg/L for mid flood)	6.3	25.7

Notes:

DA means depth average.

Bold Italic means AL exceedances.

Bold Italic with underline means LL exceedances.

Possible reason for Action or Limit Level Non-compliance:

On 10 January 2013, an AL exceedance at station IS5 was recorded during mid-flood tide.

The exceedance has been investigated and is considered unlikely to be related to contract works due to the following reasons:

1. Sand filling, sand pumping, filling and levelling of stone platform and stone column works at Zone 1, excavation of aggregate for removal of temporary platform at Zone 2, excavation of aggregate for removal of temporary platform and public fill filling at Zone 3A were carried within silt curtain as recommended in the EIA Report.
2. The ranges of suspended solid at stations IS5 during the baseline monitoring are shown as below:

Station	Range of Suspended Solid (mg/L) Mid- Ebb Tide	Range of Suspended Solid (mg/L) Mid- Flood Tide
IS5	8.1 to 25.7	7 to 23.7

The measured value at station IS5 was above the range of suspended solid during baseline monitoring for mid-flood tide. However, there were no specific activities recorded during the monitoring period that would cause any significant impacts on the monitoring results.

3. No leakage of turbid water or any abnormality or malpractice was observed during the sampling exercise.

As such, the suspended solid level is considered to be attributed to other external factors, rather than the contract works.

Actions taken/ to be taken:

As the suspended solid level recorded beyond the water quality criteria is not related to contract works, no immediate actions are considered necessary.

Location Plan:



Reviewed by : Claudine Lee

Title : ET Leader



Date : 4 February 2014

Copied to : Supervising Officer, IEC, EPD, Contractor, ENPO

Contract No. HY/2011/03 - Hong Kong- Zhuhai- Macao Bridge Hong Kong Link Road Section between Scenic Hill and Hong Kong Boundary Crossing Facilities Notifications of Environmental Quality Limits Exceedances Notification No.: 171				
Date of Notification: 4 February 2014				
Works Inspected: 24-hr TSP monitoring was undertaken on 8 January 2014 and the test report was issued on 17 January 2014				
Monitoring Location: AMS6 – Dragon Air Building (AMS6)				
Parameter: 24-hour TSP monitoring				
Action & Limit Level (AL & LL) / Measured Level:				
<u>PARAMETER</u>	<u>STATION</u>	<u>AL ($\mu\text{g}/\text{m}^3$)</u>	<u>LL ($\mu\text{g}/\text{m}^3$)</u>	<u>MEASURED LEVEL, $\mu\text{g}/\text{m}^3$</u>
24-hr TSP (8:00 – 8:00 hours)	Dragon Air Building (AMS6)	173	260	187
Notes: <i>Bold Italic</i> means AL exceedance <i><u>Bold Italic with underline</u></i> means LL exceedance Possible reason for Action or Limit Level Non-compliance: An Action Level exceedance of 24-hr TSP level was recorded at AMS6, Dragon Air Building, on 8 January 2014. According to the information provided by the Contractor, the following construction activities were undertaken during the sampling period: <u>Zone 1</u> - Sand filling - Filling and leveling of stone platform - Sand pumping - Stone column works <u>Zone 2</u> - Excavation of aggregate for removal of temporary platform - Stone column works <u>Zone 3A</u> - Sand pumping - Excavation of aggregate for removal of temporary platform - Public fill filling The general weather conditions at Tung Chung were foggy and haze during the dust sampling period. The Air Quality Health Index (AQHI) recorded by EPD at the Tung Chung station during the sampling time ranged from 3 (low) to 9 (very high). Therefore, it is considered that the exceedance was not related to the construction activities of the Contract and was caused by poor weather condition.				
Actions taken/ to be taken: As the 24-hr TSP exceedance was not related to project works, no immediate actions are considered necessary. However, the Contractor is reminded to suppress potential dust generation during the construction works.				

Reviewed by : Claudine Lee Title : ET Leader



Date : 4 February 2014

Copied to : Supervising Officer, IEC, EPD, Contractor, ENPO



Hong Kong International Airport
香港國際機場

Chek Lap Kok Ferry Pier
赤鱸角碼頭

AMS6

Zone 1
區域 1

Zone 2
區域 2

Zone 3A
區域 3A

Zone 3B
區域 3B

Zone 3C
區域 3C

Scenic Hill
觀景山

Tung Chung Pier
東涌碼頭

Tung Chung New Town
東涌新市鎮



環境保護署

噪音管制監督

圖例 Legend

Environmental Protection Department Noise Control Authority



Zone 1
區域 1

Zone 2
區域 2

Zone 3A
區域 3A

Zone 3B
區域 3B

Zone 3C
區域 3C

**Contract No. HY/2011/03 -
Hong Kong- Zhuhai- Macao Bridge
Hong Kong Link Road Section between Scenic Hill and Hong Kong Boundary Crossing Facilities
Notifications of Environmental Quality Limits Exceedances** Notification No.: 172

Date of Notification: 12 February 2014

Works Inspected: 24-hr TSP monitoring was undertaken on 20 January 2014 and the test report was issued on 28 January 2014

Monitoring Location: AMS6 – Dragon Air Building (AMS6)

Parameter: 24-hour TSP monitoring

Action & Limit Level (AL & LL) / Measured Level:

<u>PARAMETER</u>	<u>STATION</u>	<u>AL ($\mu\text{g}/\text{m}^3$)</u>	<u>LL ($\mu\text{g}/\text{m}^3$)</u>	<u>MEASURED LEVEL, $\mu\text{g}/\text{m}^3$</u>
24-hr TSP (8:00 – 8:00 hours)	Dragon Air Building (AMS6)	173	260	213

Notes: ***Bold Italic*** means AL exceedance
Bold Italic with underline means LL exceedance

Possible reason for Action or Limit Level Non-compliance:

An Action Level exceedance of 24-hr TSP level was recorded at AMS6, Dragon Air Building, on 20 January 2014.

According to the information provided by the Contractor, the following construction activities were undertaken during the sampling period:

Zone 1

- Stone column works
- Construction of stone platform
- Sand filling
- Geotextile tube installation

Zone 2

- Filling and leveling of stone platform

Zone 3A

- Public fill filling
- Excavation of aggregate for removal of temporary stone platform for the construction of permanent seawall
- Sand pumping

The general weather conditions at Tung Chung were foggy and haze during the dust sampling period. The Air Quality Health Index (AQHI) recorded by EPD at the Tung Chung station during the sampling time ranged from 5 (moderate) to 10 (very high). Therefore, it is considered that the exceedance was not related to the construction activities of the Contract and was caused by poor weather condition.

Actions taken/ to be taken:

As the 24-hr TSP exceedance was not related to project works, no immediate actions are considered necessary. However, the Contractor is reminded to suppress potential dust generation during the construction works.

Reviewed by : Claudine Lee Title : ET Leader


Date : 12 February 2014

Copied to : Supervising Officer, IEC, EPD, Contractor, ENPO



Hong Kong International Airport
香港國際機場

Chek Lap Kok Ferry Pier
赤鱗角碼頭

AMS6

Zone 1
區域 1

Zone 2
區域 2

Zone 3A
區域 3A

Zone 3B
區域 3B

Zone 3C
區域 3C

Scenic Hill
觀景山

Tung Chung Pier
東涌碼頭

Tung Chung New Town
東涌新市鎮



環境保護署

噪音管制監督

Environmental Protection Department Noise Control Authority

圖例 Legend



Summary of Notifications of Summons and Prosecutions

Total No. of Notifications of Summons / Prosecutions Received	No. of Notifications of Summons / Prosecutions Received during Reporting Period	Status of Notifications of Summons / Prosecutions
0	0	N/A



路政署
HIGHWAYS DEPARTMENT

港珠澳大橋香港工程管理處
Hong Kong - Zhuhai - Macao Bridge
Hong Kong Project Management Office

Contract No. HY/2011/03 : Hong Kong-Zhuhai-Macao Bridge
Hong Kong Link Road - Section between Scenic Hill
and Hong Kong Boundary Crossing Facilities
16th Monthly EM&A Report

APPENDIX N

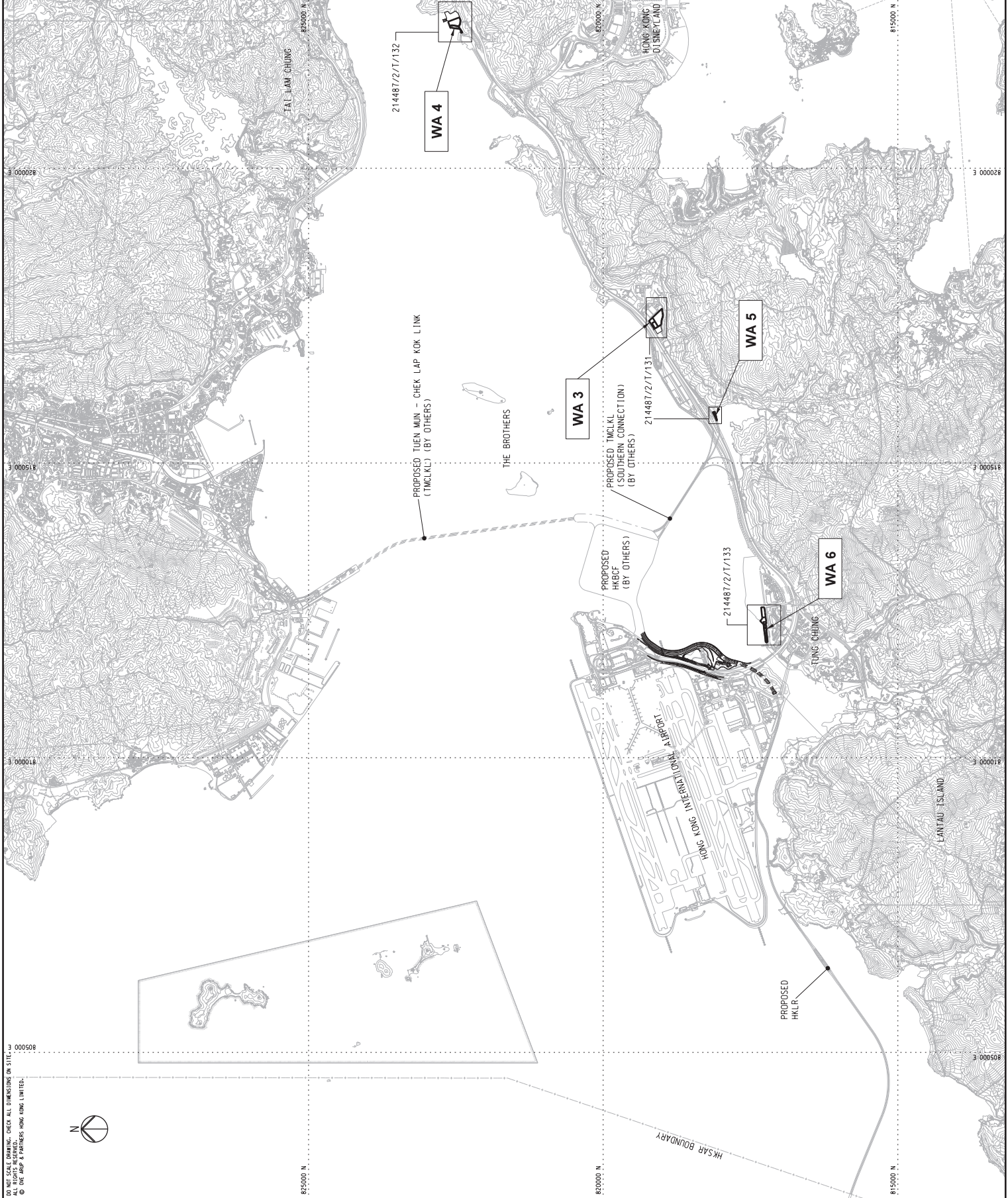
Location of Works Areas



中國建築工程(香港)有限公司
CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LTD.

NOTES

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH Dwg. Nos. 214487/2/T/131 - 133.



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Rev.	Description	By	Date
A.	TENDER ISSUE	IL	02/12

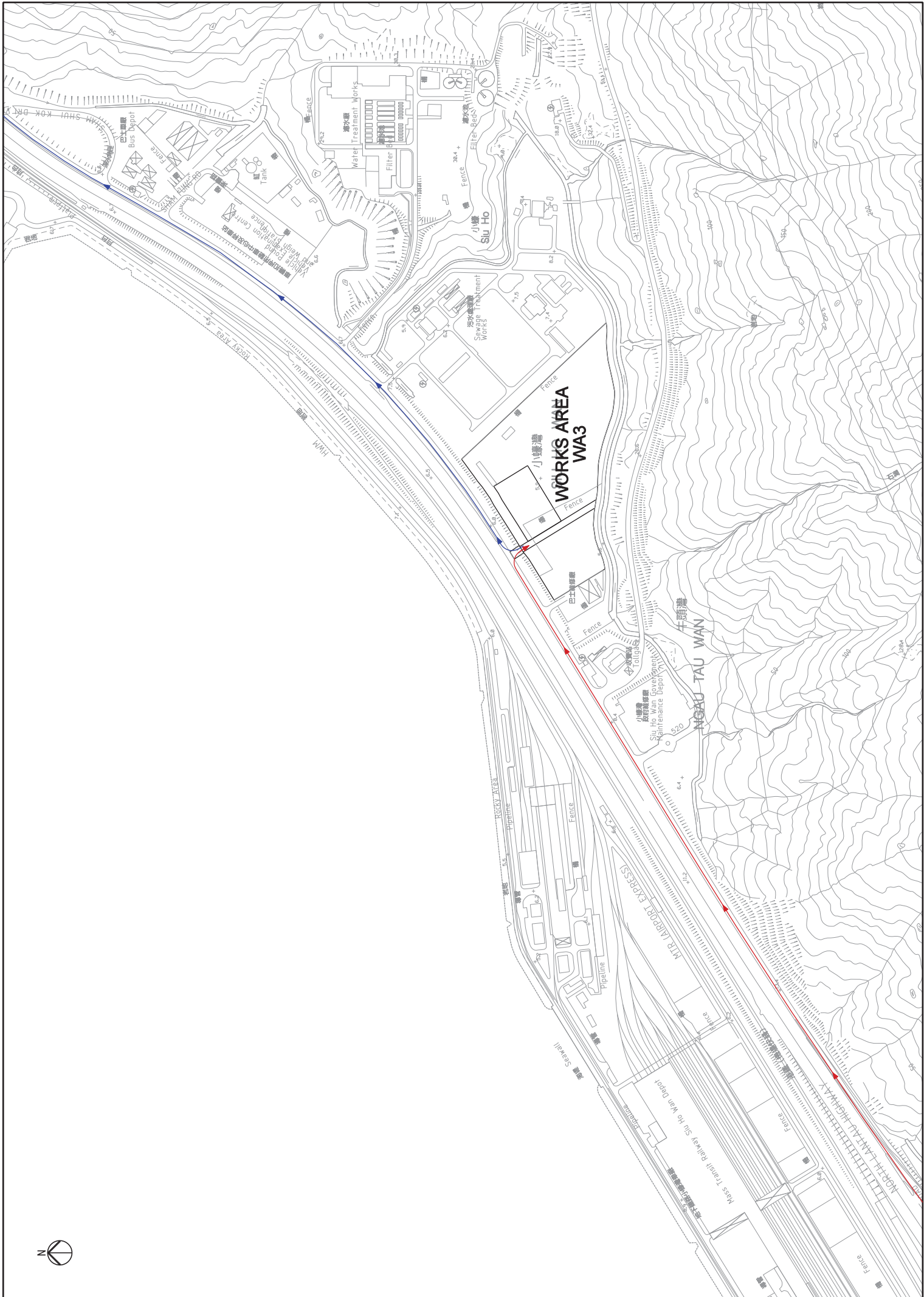
ARUP
 奧雅納工程顧問
 One Arup & Partners Hong Kong Limited

Contract No. and Title
 Contract No. HY/2011/03
 Hong Kong-Zhuhai-Macao Bridge
 Hong Kong Link Road -
 Section Between Scenic Hill and
 Hong Kong Boundary Crossing Facilities

Works Areas
KEY PLAN

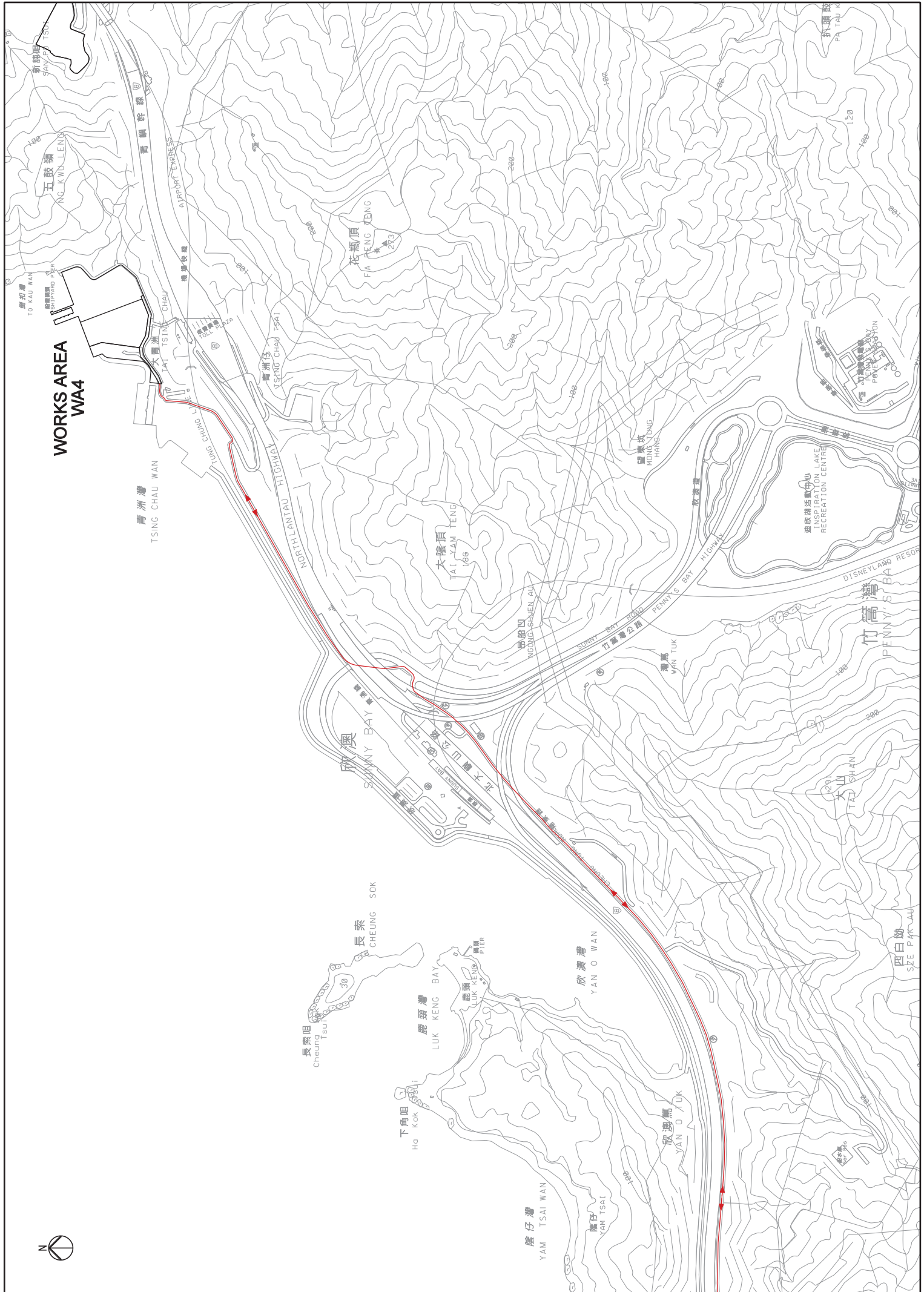
Drawing no.	214487/2/T/130	Rev.	A
Drawn	02/12	Checked	SK
Date	12/12	Status	TENDER
Scale	1:30000 (M)		

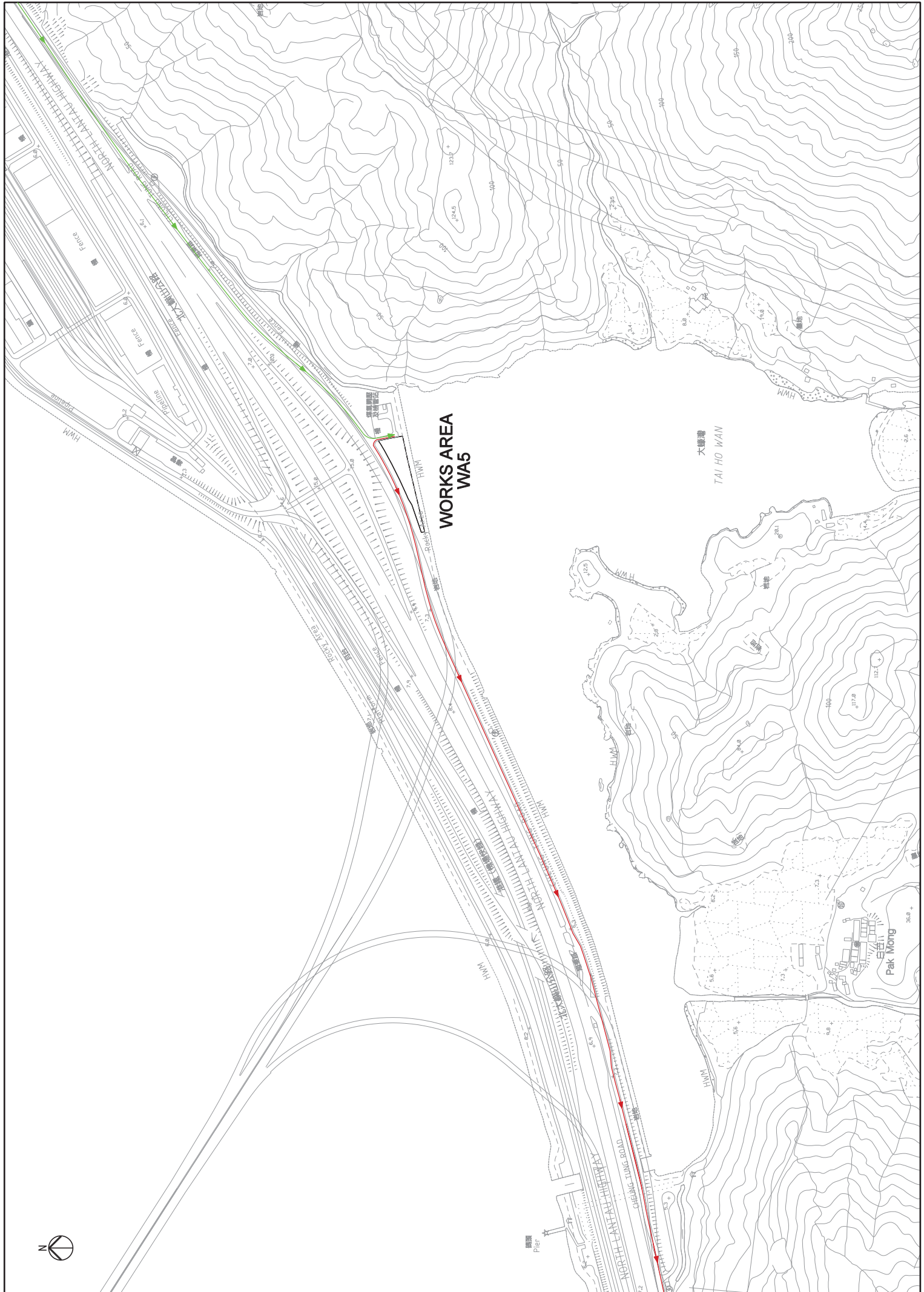
HONG KONG HIGHWAYS DEPARTMENT
 香港公路局
 Hong Kong - Zhuhai - Macao Bridge
 Hong Kong Project Management Office





WORKS AREA WA4





**WORKS AREA
WA5**

大塘灣
TAI HO WAN

白芒
Pak Mong

北潭涌
NORTH LANTAU HIGHWAY

長嶺路
CHEUNG LING ROAD

碼頭
Pier

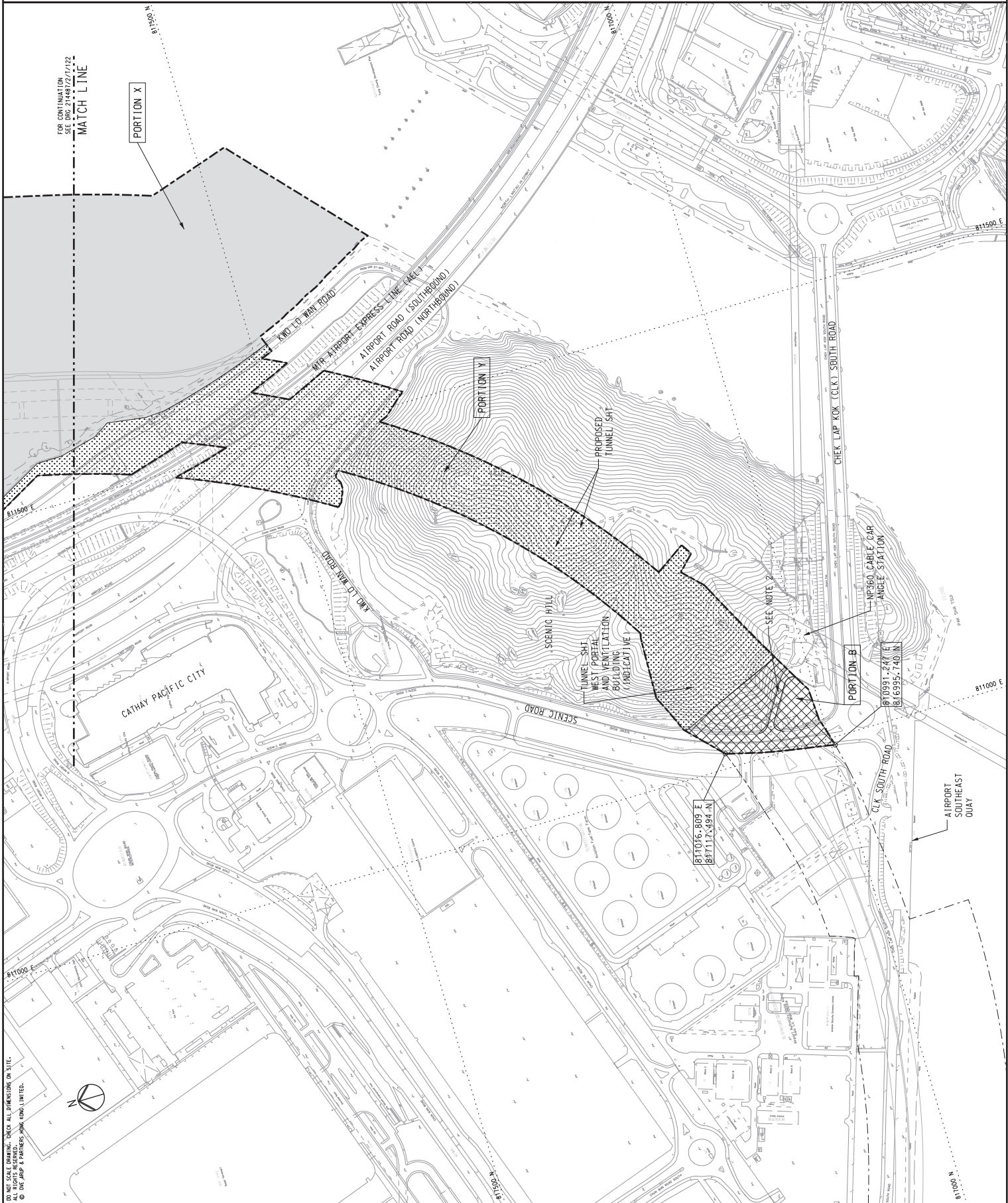


NOTES

- FOR DETAILED DESCRIPTION OF PORTION OF SITE, REFER TO ER PART 2 GENERAL SITE DATA.
- ACCESS ROAD TO NP360 CABLE CAR ANGLE STATION SHALL BE MAINTAINED AT ALL TIMES.

LEGEND

	SITE BOUNDARY
	PORTION X
	PORTION Y
	PORTION B
	PORTION C
	PORTION D1



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FOR CONTINUATION
 SEE DRG 214487/2/T/122
MATCH LINE

Rev	Description	By	Date
A	TENDER ISSUE	IL	02/12

ARUP 奧雅納工程顧問
 One Arup & Partners Hong Kong Limited

Contract No. and Title
Hong Kong-Zhuhai-Macao Bridge
 Hong Kong Link Road -
 Section Between Scenic Hill and
 Hong Kong Boundary Crossing Facilities

PORTION OF SITE
 (SHEET 1 OF 3)

Drawing no.	214487/2/T/121	Rev.	A
Drawn	18/7/12	Checked	SK
Scale	1:2000 (M1)	Status	TENDER

HONG KONG HIGHWAYS DEPARTMENT
 香港公路局
 Hong Kong - Zhuhai - Macao Bridge
 Hong Kong Project Management Office

NOTES

1. FOR GENERAL NOTES AND LEGEND, REFER TO DRG. NO. 214487/2/1/21.

FOR CONTINUATION
SEE DRG. 214487/2/1/23

MATCH LINE

CIVIL AVIATION DEPARTMENT
(CAD) NEW HEADQUARTERS

FUNG FAI ROAD

EXISTING
CIVIL AVIATION DEPARTMENT
BUILDINGS

PORTION X

KWU LO WAN ROAD

AIRPORT ROAD (SOUTHBOUND)
AIRPORT ROAD (NORTHBOUND)

PORTION Y

MATCH LINE

FOR CONTINUATION
SEE DRG. 214487/2/1/21

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HONG KONG INTERNATIONAL AIRPORT

Rev	Description	By	Date
A	TENDER ISSUE	IL	02/12

Consultant
ARUP 奧雅納工程顧問
Ove Arup & Partners Hong Kong Limited

Contract No. and Title
Contract No. HY/2011/03
Hong Kong-Zhuhai-Macao Bridge
Hong Kong Link Road -
Section Between Scenic Hill and
Hong Kong Boundary Crossing Facilities

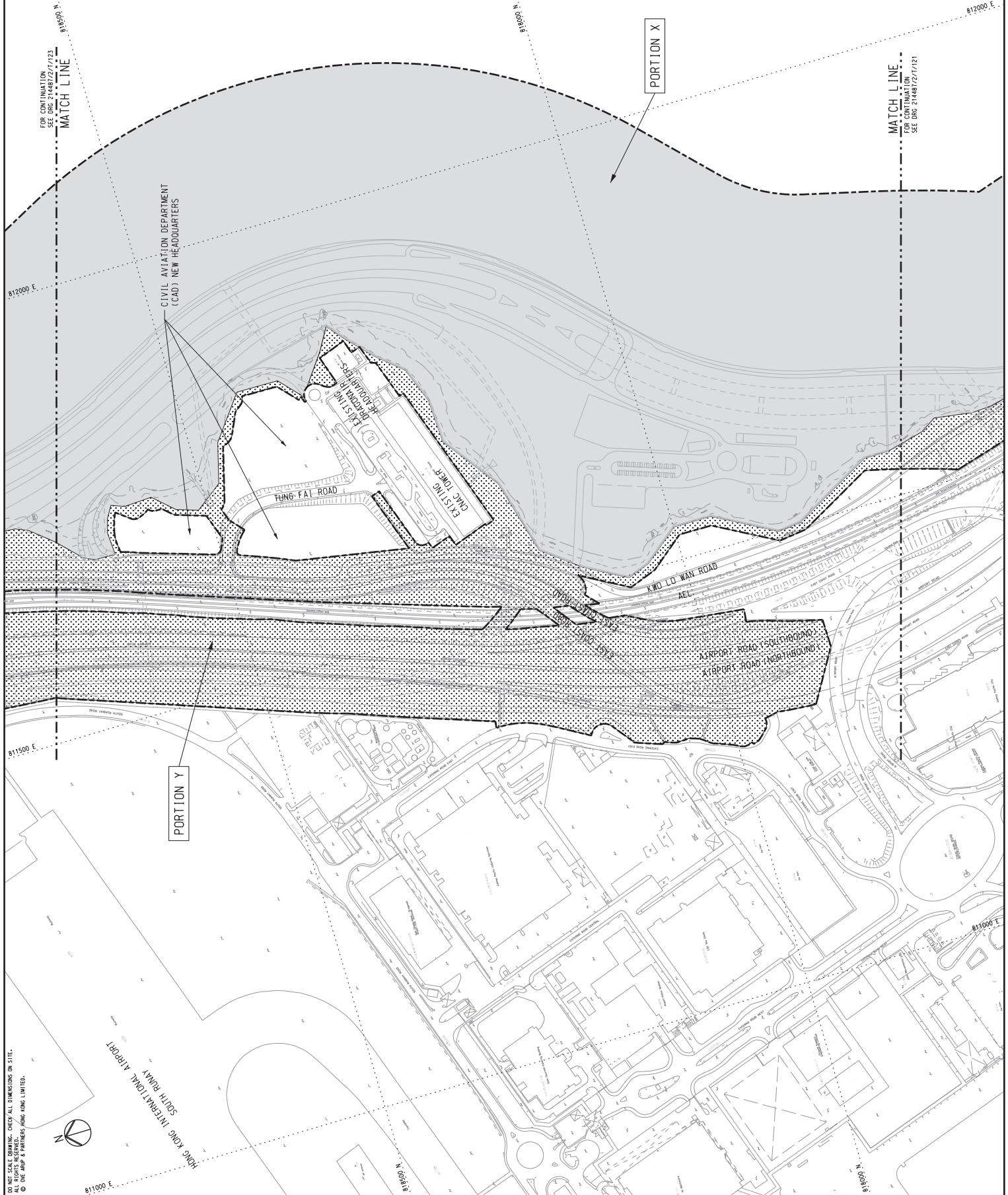
Drawing Title
**PORTION OF SITE
(SHEET 2 OF 3)**

Drawn	Checkd	Approved	Rev.
IL	SK	SK	A

Scale: 1:2000 (M1)
TENDER

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Hong Kong - Zhuhai - Macao Bridge
Hong Kong Project Management Office



NOTES

1. FOR GENERAL NOTES AND LEGEND, REFER TO DRG. NO. 214487/2/T/121.

SETTING OUT CO-ORDINATES OF SITE PORTION C

POINT	CO-ORDINATES	
	EASTING	NORTHING
C1	812097.481	819361.966
C2	812254.199	819116.562
C3	812178.695	819101.208
C4	811970.282	819189.551
C5	811941.125	819235.206

SETTING OUT CO-ORDINATES OF SITE PORTION D1

POINT	CO-ORDINATES	
	EASTING	NORTHING
D1-1	812059.460	819421.497
D1-2	812014.853	819351.273
D1-3	812026.200	819329.938

Rev	Description	By	Date
A	TENDER ISSUE	IL	02/12

ARUP

顧問
ARUP 工程師有限公司
One Arup & Partners Hong Kong Limited

Contract No. and Title

Contract No. HY/2011/03

Hong Kong-Zhuhai-Macao Bridge
Hong Kong Link Road -
Section Between Scenic Hill and
Hong Kong Boundary Crossing Facilities

Drawing title

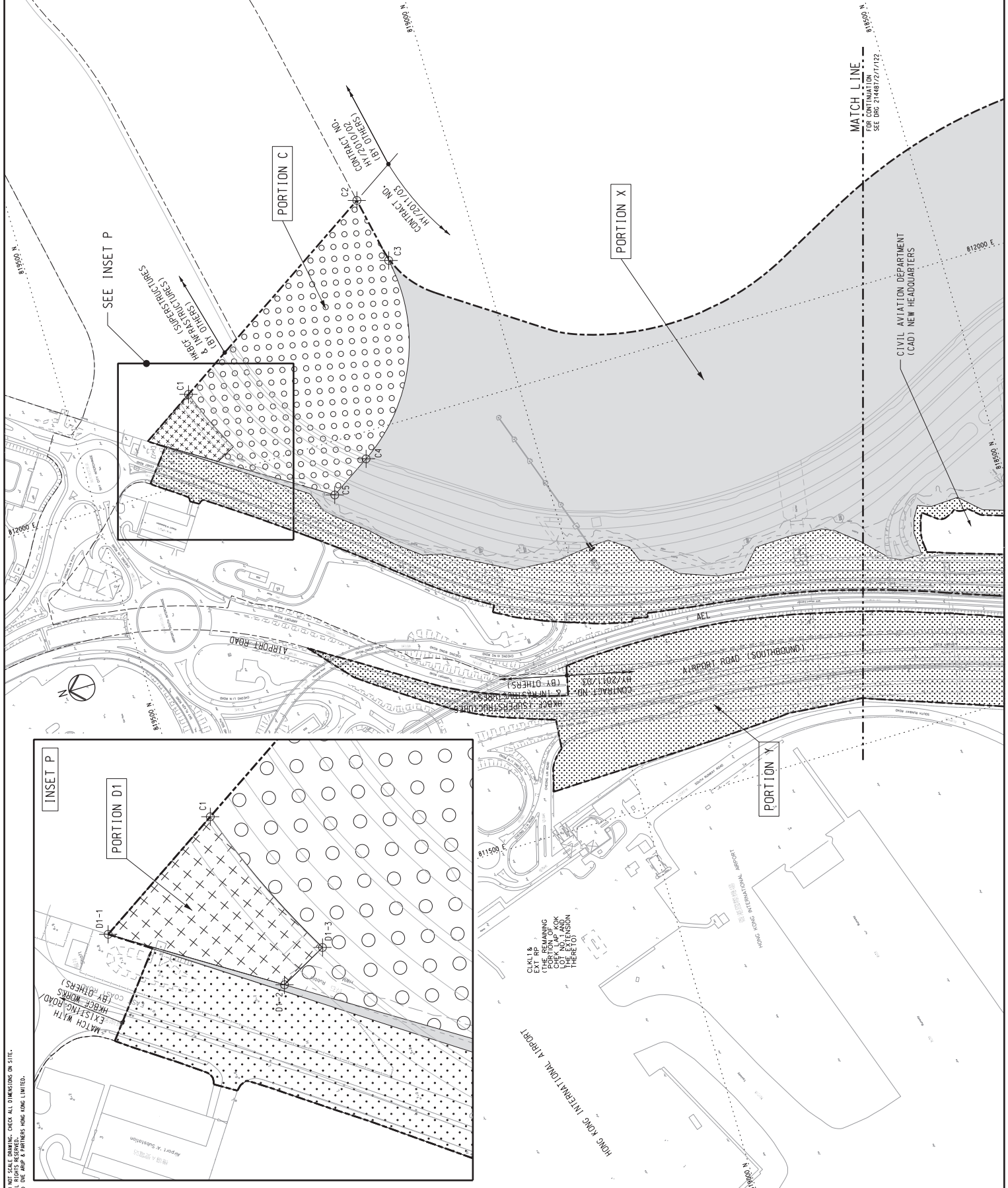
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