

**Contract No. HY/2012/08  
Tuen Mun – Chek Lap Kok Link –  
Northern Connection Sub-sea Tunnel  
Section**

*Eighth Monthly Environmental Monitoring &  
Audit (EM&A) Report*

11 July 2014

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# Contract No. HY/2012/08





## Tuen Mun – Chek Lap Kok Link – Northern Connection Sub-sea Tunnel Section

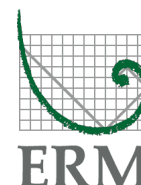
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*Eighth Monthly Environmental Monitoring & Audit (EM&A) Report*

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		Approved by:  			
		Mr Craig Reid Partner			
		Certified by:  			
		Mr Jovy Tam ET Leader			
	8 <sup>th</sup> Monthly EM&A Report	VAR	JT	CAR	11/07/14
Revision	Description	By	Checked	Approved	Date
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## EXECUTIVE SUMMARY

Under *Contract No. HY/2012/08*, Dragages – Bouygues Joint Venture (DBJV) is commissioned by the Highways Department (HyD) to undertake the design and construction of the Northern Connection Sub-sea Tunnel Section of the Tuen Mun – Chek Lap Kok Link Project (TM-CLK Link Project) while AECOM Asia Company Limited was appointed by HyD as the Supervising Officer. For implementation of the environmental monitoring and audit (EM&A) programme under the Contract, ERM-Hong Kong, Limited (ERM) has been appointed as the Environmental Team (ET) in accordance with *Environmental Permit No. EP-354/2009/A*. ENVIRON Hong Kong Ltd. was employed by HyD as the Independent Environmental Checker (IEC) and Environmental Project Office (ENPO). Another application for variation of environmental permit (VEP) (*EP-354/2009/B*) was granted on 28 January 2014.

The construction phase of the Project commenced on 1 November 2013 and will tentatively be completed by the end of 2018. The impact monitoring of the EM&A programme, including air quality, water quality, marine ecological monitoring and environmental site inspections, were commenced on 1 November 2013.

This is the Eighth Monthly EM&A report presenting the EM&A works carried out during the period from 1 to 30 June 2014 for the *Contract No. HY/2012/08 Northern Connection Sub-sea Tunnel Section* (the “Project”) in accordance with the Updated EM&A Manual of the TM-CLK Link Project. As informed by the Contractor, major activities in the reporting period included:

### *Marine-based Works*

- Dredging at Portion N-C;
- Reclamation filling at Portion N-A;
- Construction of Vertical Seawall and Sloping Seawall at Portions N-B & N-C;
- Marine Sheet Piling for Box Culvert extension at Portion N-A;
- Box Culvert extension – Backfilling and Tie Rod Installation at Portion N-A; and,
- Predrilling for Box Culvert Foundation at Portion N-A.

### *Land-based Works*

- CLP Substation utilities works in Portion N6;
- Bored Piling in Portion N6;
- Pile Cap Construction in Portion N6;
- Construction of temporary access at Reclamation Area – Portion N-A; and,
- Diaphragm Wall Construction at Reclamation Area – Portion N-A.

A summary of monitoring and audit activities conducted in the reporting period is listed below:

24-hour TSP Monitoring	6 sessions
1-hour TSP Monitoring	6 sessions
Impact Water Quality Monitoring	13 sessions
Impact Dolphin Monitoring	2 sessions
Joint Environmental Site Inspection	4 sessions

Daily marine mammal exclusion zone monitoring was undertaken during the period of dredging works. No sighting of the Indo-Pacific humpback dolphin *Sousa chinensis* was recorded in June 2014 during the exclusion zone monitoring.

#### Summary of Breaches of Action/Limit Levels

##### *Breaches of Action and Limit Levels for Air Quality*

No Action Level or Limit Level of air quality exceedances were recorded in the water quality monitoring of this reporting month.

##### *Breaches of Action and Limit Levels for Water Quality*

No Action Level or Limit Level of water quality exceedances were recorded in the water quality monitoring of this reporting month.

##### *Dolphin Monitoring*

During this month of dolphin monitoring, no unacceptable impact from the construction activities of the TM-CLKL Northern Connection Sub-sea Tunnel Section on Chinese White Dolphins was noticeable from general observations. Due to monthly variation in dolphin occurrence within the study area, it would be more appropriate to draw conclusion on whether any unacceptable impacts on dolphins have been detected related to the construction activities of the TM-CLKL Northern Connection Sub-sea Section in the quarterly EM&A reports, where comparison on distribution, group size and encounter rates of dolphins between the quarterly impact monitoring period and baseline monitoring period will be made.

#### Environmental Complaints, Non-compliance & Summons

No non-compliance with EIA recommendations, EP conditions and other requirements associated with the construction of this Contract was recorded in this reporting period.

No environmental complaint was received in this reporting period.

No environmental summons was received in this reporting period.

## Reporting Change

There was no reporting change required in the reporting period.

## Upcoming Works for the Next Reporting Month

Works to be undertaken in the next monitoring period of July 2014 include the following:

### *Marine-based Works*

- Dredging at Portion N-C;
- Reclamation filling at Portion N-A;
- Vertical Seawall construction at Portions N-B and N-C;
- Sloping Seawall construction at Portions N-B and N-C;
- Box Culvert extension - Backfilling & Tie Rod Installation at Portion N-A;
- Marine Sheet Piling for Box Culvert extension at Portion N-A; and,
- Predrilling for Box Culvert Foundation at Portion N-A.

### *Land-based Works*

- CLP Substation utilities works at Portion N6;
- Bored Piling at Portion N6;
- Diaphragm Wall Construction at Reclamation Area - Portion N-A;
- Construction of temporary access at Reclamation Area - Portion N-A; and,
- Pile Cap Construction at Portion N6.

## Future Key Issues

Potential environmental impacts arising from the above upcoming construction activities in the next reporting month of July 2014 are expected to be mainly associated with dust, marine water quality, marine ecology and waste management.

## 1.1

## BACKGROUND

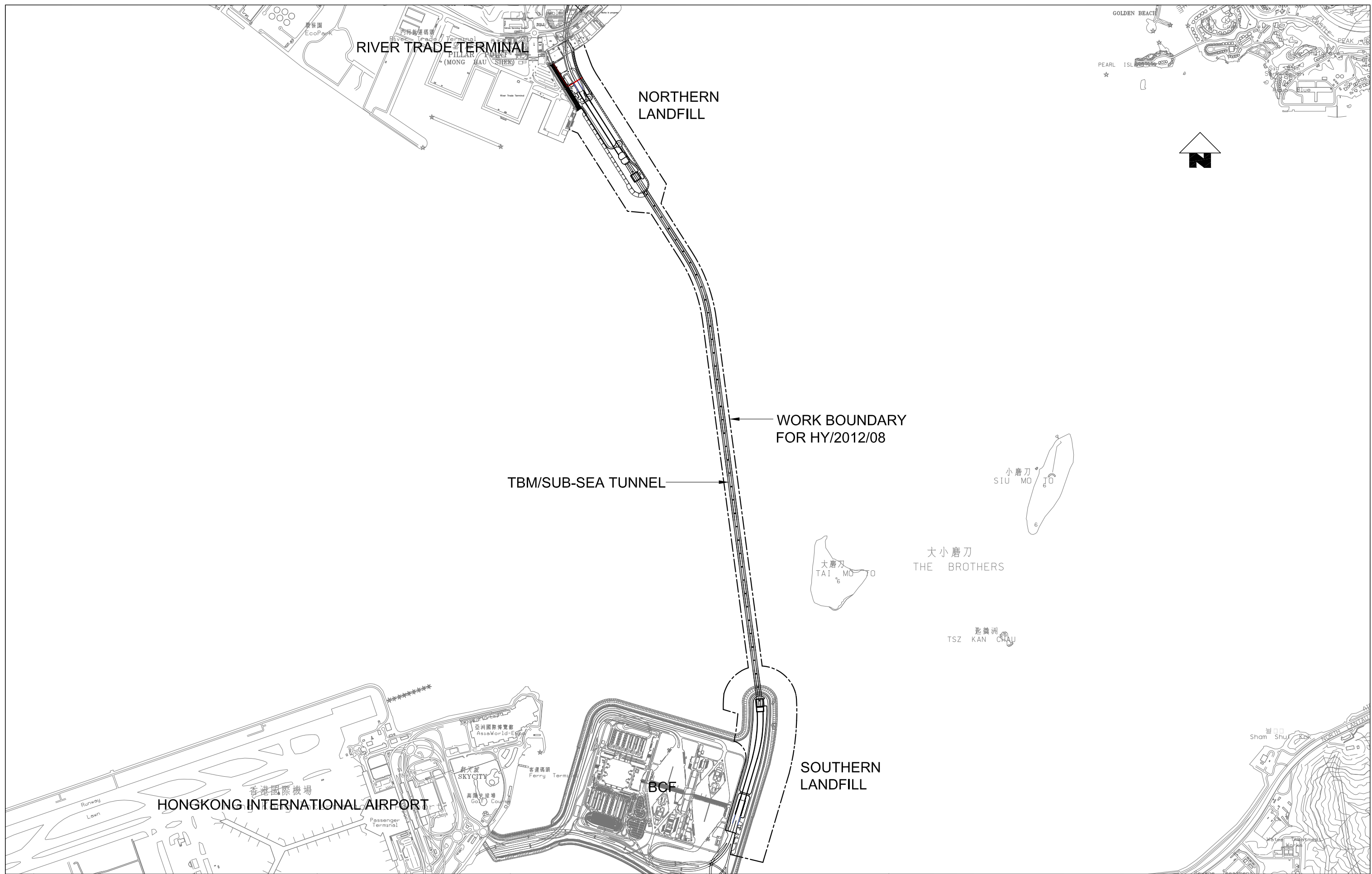
According to the findings of the Northwest New Territories (NWNT) Traffic and Infrastructure Review conducted by the Transport Department, Tuen Mun Road, Ting Kau Bridge, Lantau Link and North Lantau Highway would be operating beyond capacity after 2016. This forecast has been based on the estimated increase in cross boundary traffic, developments in the Northwest New Territories (NWNT), and possible developments in North Lantau, including the Airport developments, the Lantau Logistics Park (LLP) and the Hong Kong – Zhuhai – Macao Bridge (HZMB). In order to cope with the anticipated traffic demand, two new road sections between NWNT and North Lantau – Tuen Mun – Chek Lap Kok Link (TM-CLKL) and Tuen Mun Western Bypass (TMWB) are proposed.

An Environmental Impact Assessment (EIA) of TM-CLKL (the Project) was prepared in accordance with the EIA Study Brief (No. ESB-175/2007) and the *Technical Memorandum of the Environmental Impact Assessment Process (EIAO-TM)*. The EIA Report was submitted under the Environmental Impact Assessment Ordinance (EIAO) in August 2009. Subsequent to the approval of the EIA Report (EIAO Register Number AEIAR-145/2009), an Environmental Permit (EP-354/2009) for TM-CLKL was granted by the Director of Environmental Protection (DEP) on 4 November 2009, and EP variation (VEP) (EP-354/2009A) was issued on 8 December 2010. Another application for VEP (EP-354/2009/B) was granted on 28 January 2014.

Under *Contract No. HY/2012/08*, Dragages – Bouygues Joint Venture (DBJV) is commissioned by the Highways Department (HyD) to undertake the design and construction of the Northern Connection Sub-sea Tunnel Section of TM-CLKL while AECOM Asia Company Limited was appointed by HyD as the Supervising Officer. For implementation of the environmental monitoring and audit (EM&A) programme under the Contract, ERM-Hong Kong, Limited (ERM) has been appointed as the Environmental Team (ET). ENVIRON Hong Kong Ltd. was employed by HyD as the Independent Environmental Checker (IEC) and Environmental Project Office (ENPO).

Layout of the Contract components is presented in *Figure 1.1*.

The construction phase of the Contract commenced on 1 November 2013 and will tentatively be completed by 2018. The impact monitoring phase of the EM&A programme, including air quality, water quality, marine ecological monitoring and environmental site inspections, were commenced on 1 November 2013.



Designed By	PKV
Drawn By	DAI
Approved By	SPo
Date	11SEP2013
Rev.	Description
A	FIRST ISSUE
	11SEP13
	PKV
	Checked

Main Contractor

Dragages - Bouygues Joint Venture 寶嘉 - 布依格聯營

Client

HIGHWAYS DEPARTMENT

Contractor's Designer

Arup Ove Arup & Partners Hong Kong Limited

Project

Contract No. HY/2012/08  
Tuen Mun - Chek Lap Kok Link -  
Northern Connection Sub-Sea Tunnel Section

Drawing Title

**Figure 1.1**

Drawing no.	TMCLKL8-DBJ-GEN-DWG-00174
Scale	1:25000 © A3
CADD Ref.	TMCLKL8-DBJ-GEN-DWG-00174-DFT-A
Issue Status	DFT (DRAFT)
Revision	A

## 1.2 SCOPE OF REPORT

This is the Eighth Monthly EM&A Report under the *Contract No. HY/2012/08 Tuen Mun – Chek Lap Kok Link – Northern Connection Sub-sea Tunnel Section*. This report presents a summary of the environmental monitoring and audit works in June 2014.

## 1.3 ORGANIZATION STRUCTURE

The organization structure of the Contract is shown in *Appendix A*. The key personnel contact names and contact details are summarized in *Table 1.1* below.

**Table 1.1** *Contact Information of Key Personnel*

Party	Position	Name	Telephone	Fax
Highways Department	Engr 16/HZMB	Kenneth Lee	2762 4996	3188 6614
SOR (AECOM Asia Company Limited)	Chief Resident Engineer	Edwin Ching	2293 6388	2293 6300
		Andrew Westmoreland	2293 6360	2293 6300
ENPO / IEC (ENVIRON Hong Kong Ltd.)	ENPO Leader	Y.H. Hui	3465 2888	3465 2899
	IEC	Dr. F.C. Tsang	3465 2828	3465 2899
Contractor (Dragages – Bouygues Joint Venture)	Environmental Manager	C.F. Kwong	2293 7322	2670 2798
	Environmental Officer	Bryan Lee	2293 7323	2670 2798
	24-hour complaint hotline	Rachel Lam	2293 7342	
ET (ERM-HK)	ET Leader	Jovy Tam	2271 3113	2723 5660

## 1.4 SUMMARY OF CONSTRUCTION WORKS

The construction phase of this Contract was commenced on 1 November 2013. The three-month rolling construction programme is shown in *Appendix B*.

As per DBJV's information, details of major construction works carried out in this reporting period are summarized in *Table 1.2*.

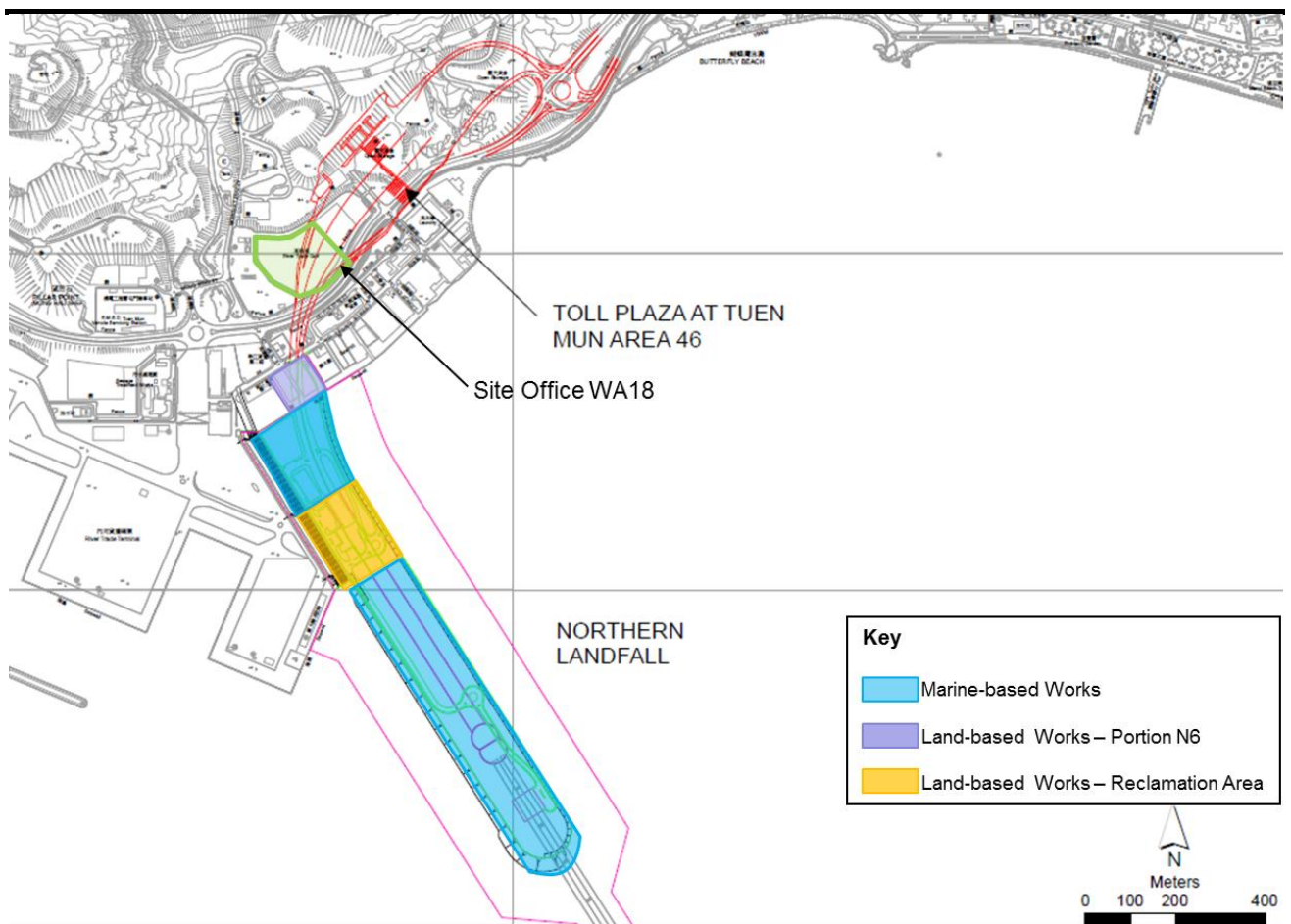
The general layout plan of the site showing the detailed works areas is shown in *Figure 1.2*. The Environmental Sensitive Receivers in the vicinity of the Project are shown in *Figure 1.3*.

The implementation schedule of environmental mitigation measures is presented in *Appendix C*.

**Table 1.2** *Summary of Construction Activities Undertaken during the Reporting Period*

Construction Activities Undertaken
<i>Marine-based Works</i>
<ul style="list-style-type: none"> <li>• Dredging at Portion N-C;</li> <li>• Reclamation filling at Portion N-A;</li> <li>• Construction of Vertical Seawall and Sloping Seawall at Portions N-B &amp; N-C;</li> <li>• Marine Sheet Piling for Box Culvert extension at Portion N-A;</li> <li>• Box Culvert extension – Backfilling and Tie Rod Installation at Portion N-A; and,</li> <li>• Predrilling for Box Culvert Foundation at Portion N-A</li> </ul>
<i>Land-based Works</i>
Portion N6
<ul style="list-style-type: none"> <li>• CLP Substation utilities works;</li> <li>• Bored Piling; and,</li> <li>• Pile Cap Construction;</li> </ul>
Reclamation Area – Portion N-A
<ul style="list-style-type: none"> <li>• Construction of temporary access;</li> <li>• Diaphragm Wall Construction.</li> </ul>

**Figure 1.2** *Locations of Construction Activities – June 2014*





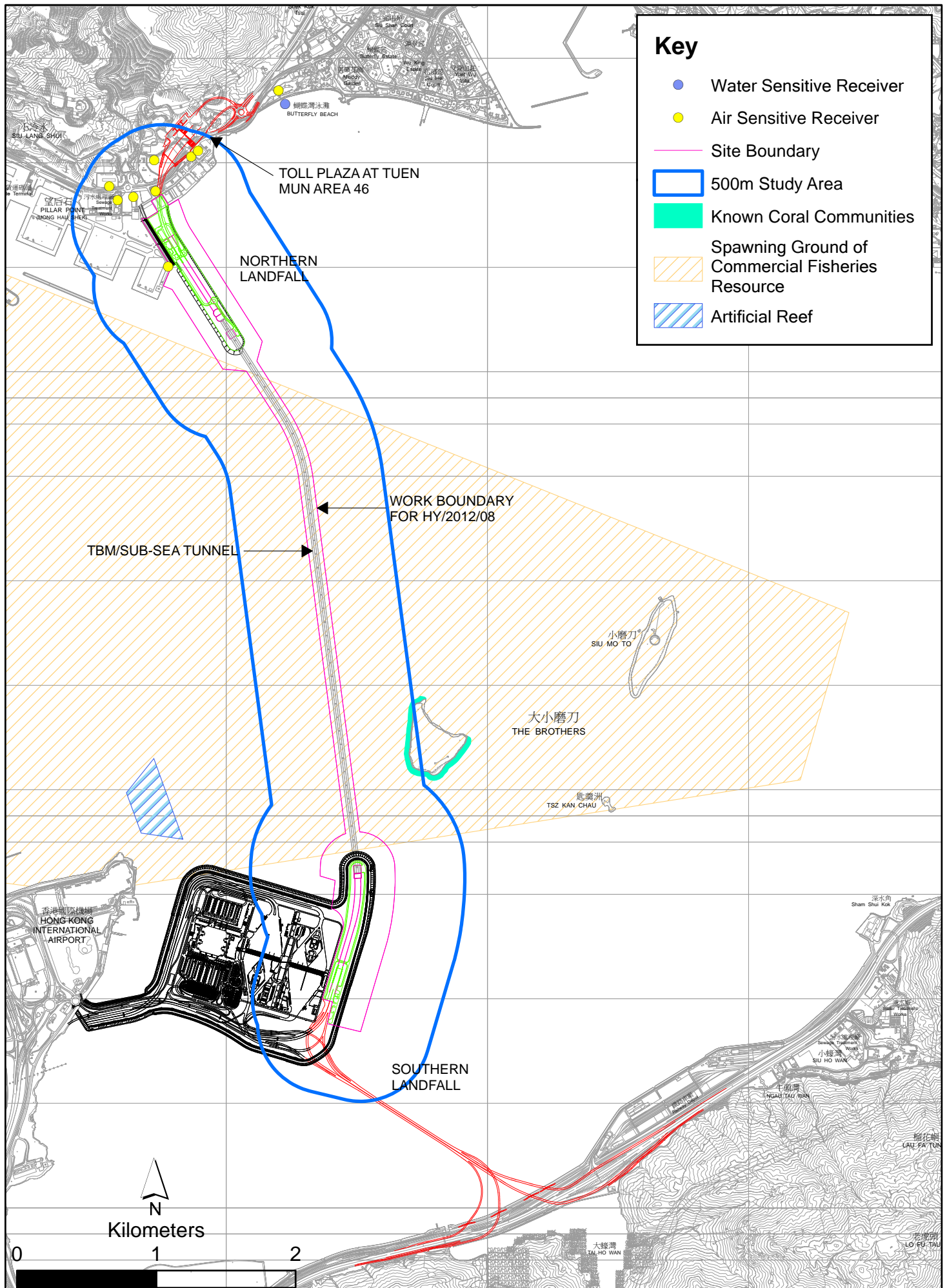


Figure 1.3 Environmental Sensitive Receivers in the vicinity of Contract No. HY/2012/08 Tuen Mun - Chek Lap Kok Link - Northern Connection Sub-Sea Tunnel Section

File: T:\GIS\CONTRACT\0212330\I\mxd\0212330\_EMnA\_Env\_Sensitive\_Receiver.mxd  
Date: 15/4/2014



The EM&A programme required environmental monitoring for air quality, water quality and marine ecology as well as environmental site inspections for air quality, noise, water quality, waste management, marine ecology and landscape and visual impacts. The EM&A requirements and related findings for each component are summarized in the following sections

## 2.1 AIR QUALITY

### 2.1.1 Monitoring Requirements and Equipment

In accordance with the Updated EM&A Manual and the Enhanced TSP Monitoring Plan, impact 1-hour TSP monitoring was conducted three (3) times every six (6) days and impact 24-hour TSP monitoring was carried out once every six (6) days when the highest dust impact was expected.

High volume samplers (HVSs) were used to carry out the 1-hour and 24-hour TSP monitoring on 3, 9, 13, 19, 25 and 30 June 2014 at the five (5) air quality monitoring stations in accordance with the requirements stipulated in the Updated EM&A Manual (*Figure 2.1; Table 2.1*). Wind meter was installed at the rooftop of ASR5 for logging wind speed and wind direction. Details of the equipment deployed are provided in *Table 2.2*. Copies of the calibration certificates for the equipment are presented in *Appendix E*.

**Table 2.1** *Locations of Impact Air Quality Monitoring Stations and Monitoring Dates in this Reporting Period*

Monitoring Station	Monitoring Dates	Location	Description	Parameters & Frequency
ASR1	3, 9, 13, 19, 25 and 30 June 2014	Tuen Mun Fireboat Station	Office	<ul style="list-style-type: none"> <li>1-hour Total Suspended Particulates (1-hour TSP, <math>\mu\text{g}/\text{m}^3</math>), 3 times in every 6 days</li> <li>24-hour Total Suspended Particulates (24-hour TSP, <math>\mu\text{g}/\text{m}^3</math>), daily for 24-hour in every 6 days</li> </ul>
ASR5		Pillar Point Fire Station	Office	
AQMS1		Previous River Trade Golf	Bare ground	
ASR6		Butterfly Beach Laundry	Office	
ASR10		Butterfly Beach Park	Recreational uses	

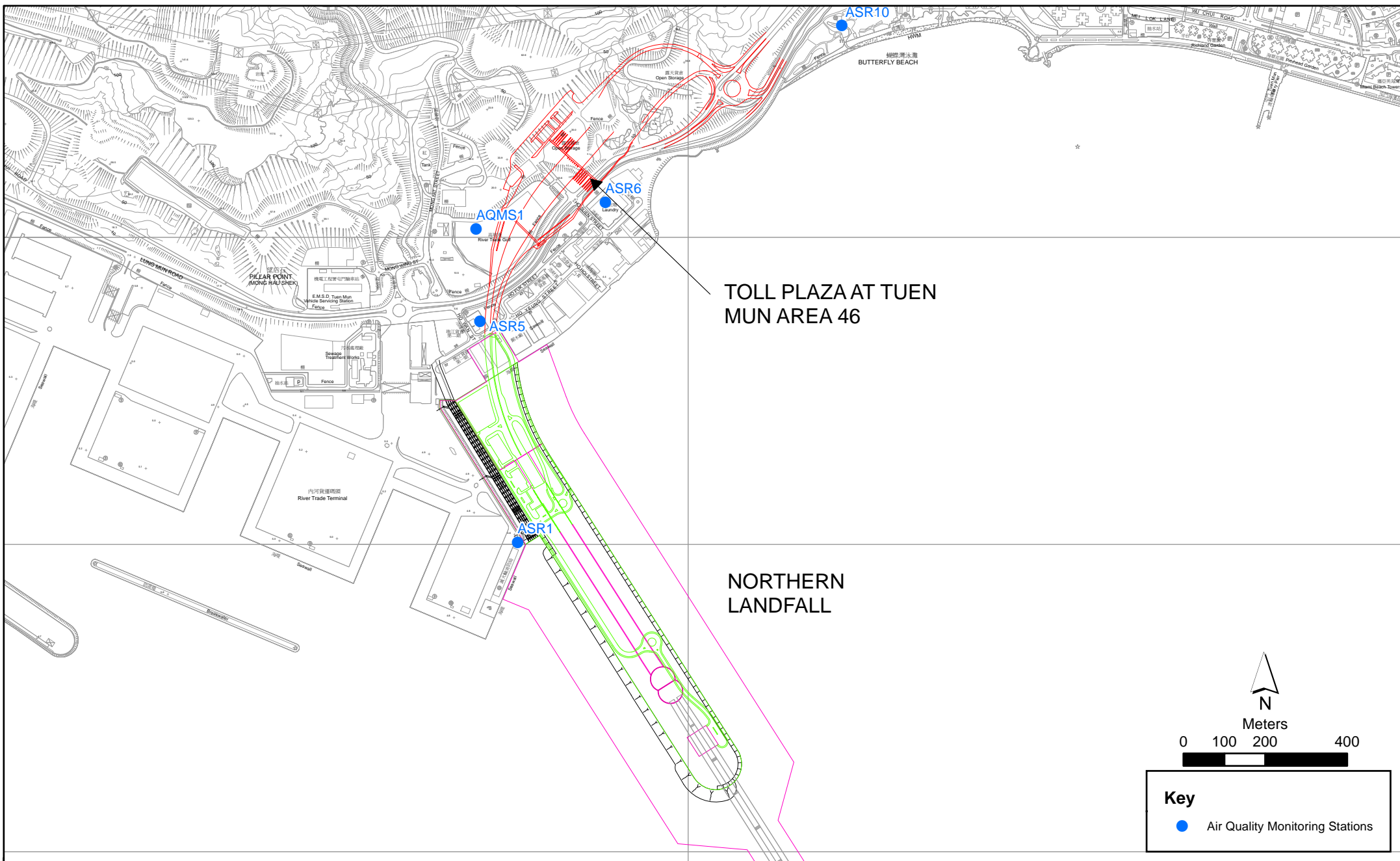


Figure 2.1

Air Quality Monitoring Stations for the Enhanced TSP Monitoring

**Table 2.2 Air Quality Monitoring Equipment**

<b>Equipment</b>	<b>Brand and Model</b>
High Volume Sampler (1-hour TSP and 24-hour TSP)	Tisch Environmental Mass Flow Controlled Total Suspended Particulate (TSP) High Volume Sampler (Model No. TE-5170)
Wind Meter*	MetPak (Model: MetPak II (S/N: 13130002)
Wind Meter*	Davis (Model: Weather Wizard III (S/N: WE90911A30)
Wind Anemometer for calibration	Lutron (Model No. AM-4201)
*Notes:	
Wind Meter (Brand: MetPak) was replaced by Wind Meter (Brand: Davis) on 29 June 2014.	

**2.1.2 Action & Limit Levels**

The Action and Limit Levels of the air quality monitoring is provided in *Appendix D*. The Event and Action plan is presented in *Appendix K*.

**2.1.3 Monitoring Schedule for the Reporting Month**

The schedule for air quality monitoring in June 2014 is provided in *Appendix F*.

**2.1.4 Results and Observations**

The monitoring results for 1-hour TSP and 24-hour TSP are summarized in *Tables 2.3 and 2.4*, respectively. Detailed impact air quality monitoring results and graphical presentations are presented in *Appendix G*.

**Table 2.3 Summary of 1-hour TSP Monitoring Results in this Reporting Period**

<b>Station</b>	<b>Average (<math>\mu\text{g}/\text{m}^3</math>)</b>	<b>Range (<math>\mu\text{g}/\text{m}^3</math>)</b>	<b>Action Level (<math>\mu\text{g}/\text{m}^3</math>)</b>	<b>Limit Level (<math>\mu\text{g}/\text{m}^3</math>)</b>
ASR1	145	83 - 321	331	500
ASR5	166	68 - 287	340	500
AQMS1	95	63 - 148	335	500
ASR6	108	61 - 174	338	500
ASR10	102	59 - 183	337	500

**Table 2.4 Summary of 24-hour TSP Monitoring Results in this Reporting Period**

<b>Station</b>	<b>Average (<math>\mu\text{g}/\text{m}^3</math>)</b>	<b>Range (<math>\mu\text{g}/\text{m}^3</math>)</b>	<b>Action Level (<math>\mu\text{g}/\text{m}^3</math>)</b>	<b>Limit Level (<math>\mu\text{g}/\text{m}^3</math>)</b>
ASR1	83	49 - 122	213	260
ASR5	83	56 - 120	238	260
AQMS1	55	45 - 68	213	260
ASR6	73	46 - 135	238	260
ASR10	55	46 - 68	214	260

The weather condition during the monitoring period varied from sunny to cloudy. The major dust sources in the reporting period include construction activities under the Contract as well as nearby traffic emissions.

A total of six monitoring events were undertaken in which no Action Level or Limit Level exceedances of 1-hr TSP and 24-TSP was recorded in this reporting month.

Meteorological information collected at the ASR5, including wind speed and wind direction, is provided in *Appendix H*. No meteorological information was recorded by the wind anemometer between 9 and 14 June 2014 due to power failure. Wind Meter (Brand: MetPak) was replaced by Wind Meter (Brand: Davis) on 29 June 2014.

## 2.2 WATER QUALITY MONITORING

### 2.2.1 Monitoring Requirements & Equipment

In accordance with the Updated EM&A Manual, impact water quality monitoring was carried out three days per week during the construction period at nine (9) water quality monitoring stations (*Figure 2.2; Table 2.5*).

**Table 2.5** *Locations of Water Quality Monitoring Stations and the Corresponding Monitoring Requirements*

Station ID	Type	Coordinates		*Parameters, unit	Depth	Frequency
		Easting	Northing			
IS12	Impact Station	813218	823681	• Temperature(°C) • pH(pH unit) • Turbidity (NTU)	3 water depths: 1m below sea surface, mid-depth and 1m above sea bed. If	Impact monitoring: 3 days per week, at mid-flood and mid-ebb
IS13	Impact Station	813667	824325			
IS14	Impact Station	812592	824172			
IS15	Impact Station	813356	825008	• Water depth (m)	the water depth is	tides during the
CS4	Control / Far Field Station	810025	824004	• Salinity (ppt) • DO (mg/L and % of	less than 3m, mid- depth sampling only. If water	construction period of the Contract.
CS6	Control / Far Field Station	817028	823992	• SS (mg/L)	depth less than 6m, mid-depth may be omitted.	
SR8	Sensitive receiver (Gazettal beaches in Tuen Mun)	816306	825715			
SR9	Sensitive receiver (Butterfly Beach)	813601	825858			
SR10A	Sensitive receiver (Ma Wan FCZ)	823741	823495			

\*Notes:

In addition to the parameters presented monitoring location/position, time, water depth, sampling depth, tidal stages, weather conditions and any special phenomena or works underway nearby were also recorded.

*Table 2.6* summarizes the equipment used in the impact water quality monitoring programme. Copies of the calibration certificates are attached in *Appendix E*.

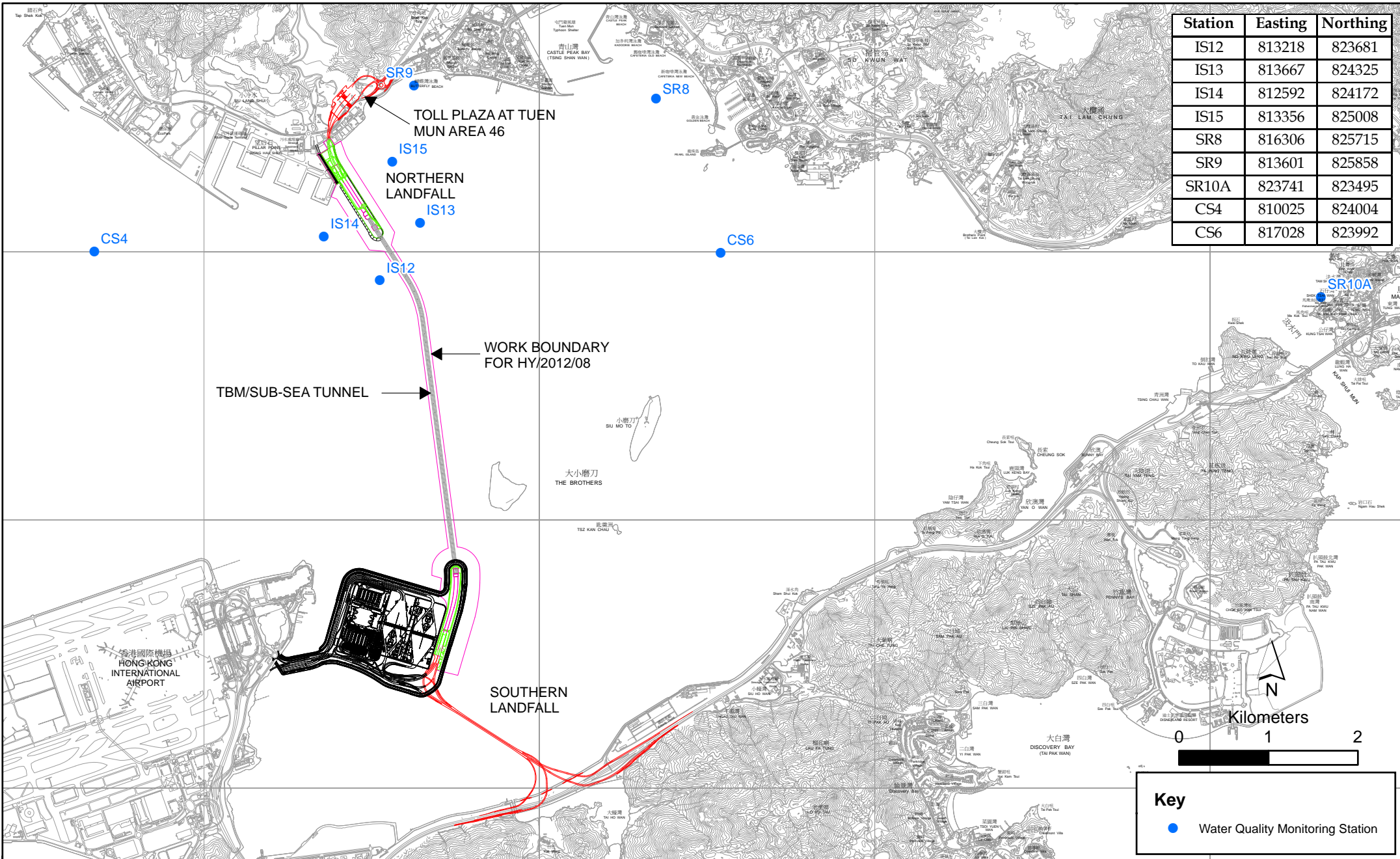


Figure 2.2

Water Quality Monitoring Station



**Table 2.6 Water Quality Monitoring Equipment**

<b>Equipment</b>	<b>Model</b>	<b>Qty.</b>
Water Sampler	Kahlsico Water-Bottle Model 135DW 150	1
Dissolved Oxygen Meter	YSI Pro 2030	1
pH Meter	HANNA HI 8314	1
Turbidity Meter	HACH 2100Q	1
Monitoring Position	“Magellan” Handheld GPS Model explorer GC	4
Equipment	DGPS Kodan KGP913MK2 <sup>(1)</sup>	1

**2.2.2 Action & Limit Levels**

The Action and Limit levels of water quality impact monitoring are shown in *Appendix D*. The Event and Action plan is presented in *Appendix K*.

**2.2.3 Monitoring Schedule for the Reporting Month**

The schedule for water quality monitoring in June 2014 is provided in *Appendix F*.

**2.2.4 Results and Observations**

During this reporting period, major marine works included dredging at Portion N-C and reclamation filling at Portion N-A. A closed grab dredger was used and silt curtains were deployed during dredging works. The level of dredging activities was within the working rate described in the EP and the approved EIA Report. In addition, reclamation filling was undertaken between the 200 m of leading seawalls using filling materials specified in the EP and the approved EIA Report with a single layer silt curtain being deployed as a precautionary measure to reduce dispersion of suspended solids. It is useful to note that heavy marine traffic (not associated with the Project) was commonly observed nearby the Project site and its vicinity.

Impact water quality monitoring was conducted at all designated monitoring stations in the reporting month. Results and graphical presentations of impact water quality monitoring are presented in *Appendix I*.

In this reporting period, a total of thirteen monitoring events were undertaken in which no Action Level or Limit Levels of exceedances for impact water quality monitoring was recorded.

## 2.3 DOLPHIN MONITORING

### 2.3.1 Monitoring Requirements

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. In order to fulfil the EM&A requirements and make good use of available resources, the on-going impact line transect dolphin monitoring data collected by HyD's Contract No. HY/2011/03 Hong Kong-Zhuhai-Macao Bridge. Hong Kong Link Road - Section between Scenic Hill and Hong Kong Boundary Crossing Facilities on the monthly basis is adopted to avoid duplicates of survey effort.

### 2.3.2 Monitoring Equipment

Table 2.7 summarises the equipment used for the impact dolphin monitoring.

Table 2.7 Dolphin Monitoring Equipment

Equipment	Model
Global Positioning System (GPS)	Garmin 18X-PC Geo One Phottix
Camera	Nikon D90 300m 2.8D fixed focus Nikon D90 20-300m zoom lens
Laser Binocular	Infinitor LRF 1000
Marine Binocular	Bushell 7 x 50 marine binocular with compass and reticules
Vessel for Monitoring	65 foot single engine motor vessel with viewing platform 4.5m above water level

### 2.3.3 Monitoring Parameter, Frequencies & Duration

Dolphin monitoring should cover all transect lines in Northeast Lantau (NEL) and the Northwest Lantau (NWL) survey areas twice per month throughout the entire construction period. The monitoring data should be compatible with, and should be made available for, long-term studies of small cetacean ecology in Hong Kong. In order to provide a suitable long-term dataset for comparison, identical methodology and line transects employed in baseline dolphin monitoring was followed in the impact dolphin monitoring.

### 2.3.4 Monitoring Location

The impact dolphin monitoring was carried out in the NEL and NWL along the line transect as depicted in Figure 2.3. The co-ordinates of all transect lines are shown in Table 2.8 below.

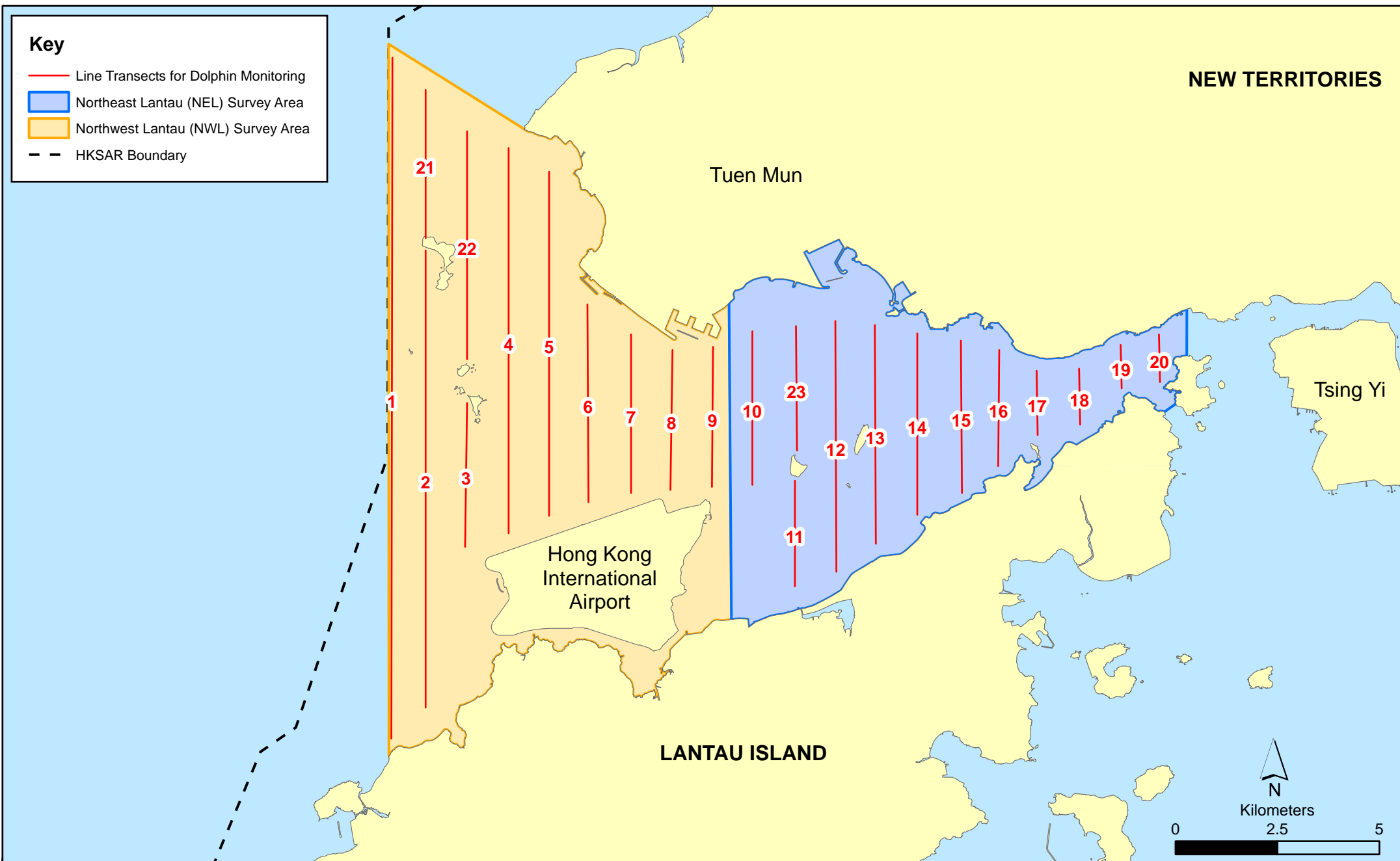


Figure 2.3

Layout of Transect Lines of Dolphin Monitoring in Northwest and Northeast Lantau Areas



**Table 2.8 Impact Dolphin Monitoring Line Transect Co-ordinates**

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
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				

**2.3.5 Action & Limit Levels**

The Action and Limit levels of impact dolphin monitoring are shown in *Appendix D*. The Event and Action plan is presented in *Appendix K*.

### 2.3.6 *Monitoring Schedule for the Reporting Month*

Dolphin monitoring was carried out on 3, 5, 10 and 16 June 2014. The dolphin monitoring schedule for the reporting month is shown in *Appendix F*.

### 2.3.7 *Results & Observations*

A total of 300.78 km of survey effort was collected, with 89.7% of the total survey effort being conducted under favourable weather conditions (ie Beaufort Sea State 3 or below with good visibility) in June 2014. Amongst the two areas, 116.40 km and 184.38 km of survey effort were collected from NEL and NWL survey areas, respectively. The total survey effort conducted on primary and secondary lines were 215.36 km and 85.42 km, respectively. The survey efforts are summarized in *Appendix J*.

A total of 3 groups of 7 Chinese White Dolphin sightings were recorded during the two sets of surveys in June 2014. All sightings were made in NWL during the two sets of surveys in June 2014, with no dolphin being sighted in NEL. Only one sighting was made on primary lines during on-effort search and none of the dolphin groups was associated with operating fishing vessel.

None of the sightings was made in the vicinity of the TM-CLKL Northern Landfall. The distribution of dolphin sightings during the reporting month is shown in *Figure 2.4*.

Encounter rates of Chinese White Dolphins are deduced from the survey effort and on-effort sighting data made under favourable conditions (Beaufort 3 or below with good visibility) in June 2014 with the results present in *Tables 2.9* and *2.10*.

**Table 2.9** *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: June 3 <sup>rd</sup> /5 <sup>th</sup>	0.0	0.0
	Set 2: June 10 <sup>th</sup> /16 <sup>th</sup>	0.0	0.0
NWL	Set 1: June 3 <sup>rd</sup> /5 <sup>th</sup>	1.7	5.0
	Set 2: June 10 <sup>th</sup> /16 <sup>th</sup>	0.0	0.0

Note: Dolphin Encounter Rates are deduced from the Two Sets of Surveys (Two Surveys in Each Set) in June 2014 in Northeast (NEL) and Northwest Lantau (NWL)

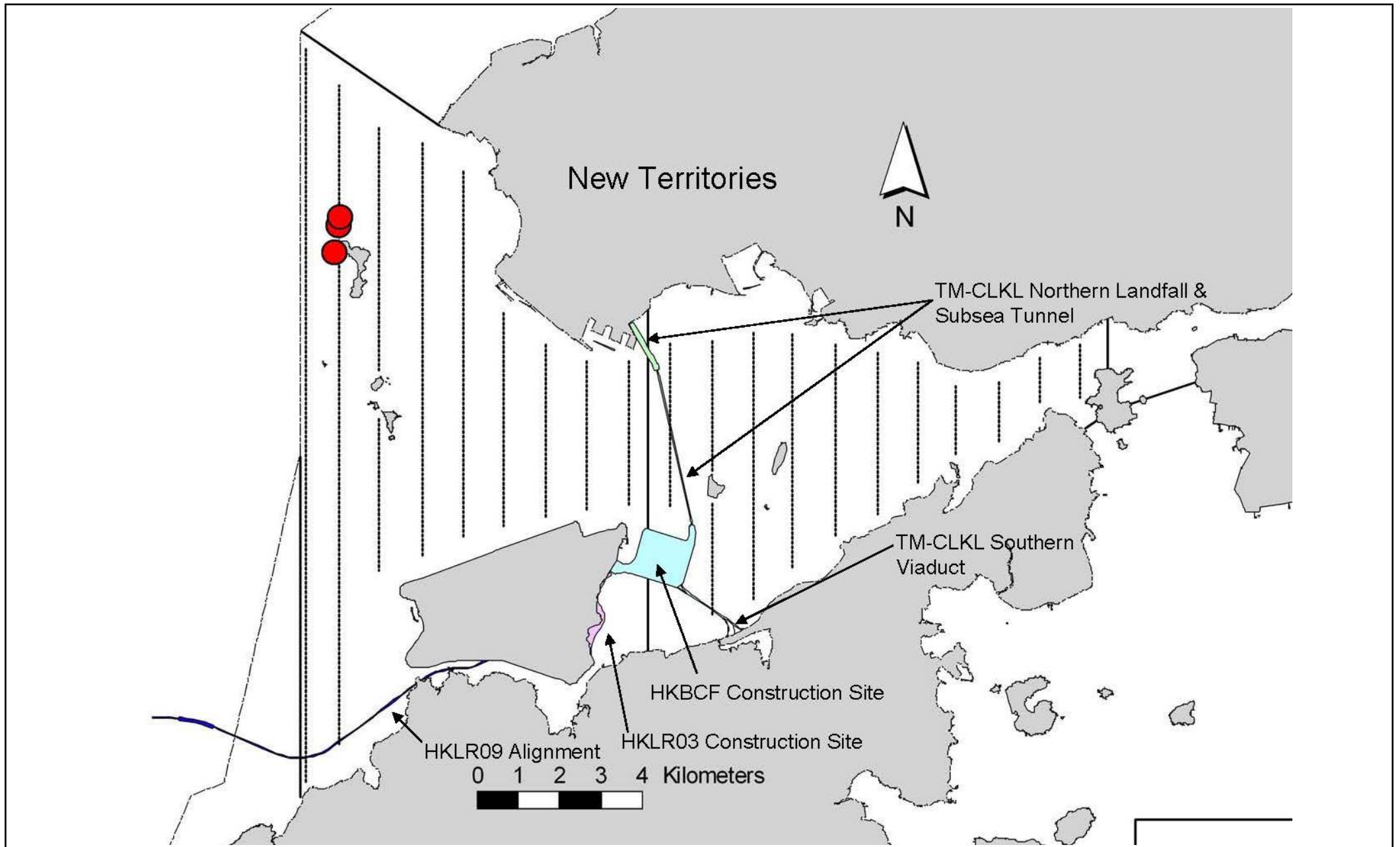


Figure 2.4

HY/2012/08 TM-CLKL Northern Connection Sub-sea Tunnel Section  
 The distribution of dolphin sightings during the reporting period  
 (Source: Adopted from HKLR03 Monitoring Survey in June 2014)

DATE: 08/05/2014

Environmental  
 Resources  
 Management



**Table 2.10 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
<b>Northeast Lantau</b>	0.0	0.0	0.0	0.0
<b>Northwest Lantau</b>	0.9	1.3	2.6	3.9

Note: Overall dolphin encounter rates (sightings per 100 km of survey effort) from all four surveys are conducted in June 2014 on primary lines only as well as both primary lines and secondary lines in Northeast and Northwest Lantau.

The average group size of Chinese White Dolphins in June 2014 was 2.33 individuals per group. All dolphin groups were composed of 1 - 3 animals.

No unacceptable impact from the construction activities of the TM-CLKL Northern Connection Sub-sea Tunnel Section on Chinese White Dolphins was noticeable from general observations during the dolphin monitoring in this reporting month.

Due to monthly variation in dolphin occurrence within the survey area, it would be more appropriate to draw conclusion on whether any unacceptable impacts on dolphins have been detected related to the construction activities of this Project in the quarterly EM&A reports, where comparison on distribution, group size and encounter rates of dolphins between the quarterly impact monitoring period and baseline monitoring period will be made.

### 2.3.8 Marine Mammal Exclusion Zone Monitoring

Daily 250 m marine mammal exclusion zone monitoring was undertaken during the period of marine works under this Contract. No sighting of the Indo-Pacific humpback dolphin *Sousa chinensis* (i.e. Chinese White Dolphin) was recorded in June 2014 during the exclusion zone monitoring.

## 2.4 EM&A SITE INSPECTION

Site inspections were carried out on a weekly basis to monitor the implementation of proper environmental pollution control and mitigation measures under the Contract. In the reporting month, four (4) site inspections were carried out on 3, 10, 18 and 25 June 2014.

Key observations and recommendations during the site inspections in this reporting period are summarized in *Table 2.11*.

**Table 2.11 Specific Observations and Recommendations during the Weekly Site Inspection in this Reporting Month**

Inspection Date	Observations	Recommendations/ Remarks
3 June 2014	<p>Reclamation Area – Portion N-A</p> <ul style="list-style-type: none"> <li>Oil was observed in the water adjacent to the works site.</li> <li>Water spraying should be applied to the dust generating area more frequently.</li> </ul>	<p>Reclamation Area – Portion N-A</p> <ul style="list-style-type: none"> <li>The Contractor was reminded to clean up the oil spill in the water as chemical waste.</li> <li>The Contractor was reminded to provide adequate water spraying to prevent dust generation.</li> </ul>
10 June 2014	<p>Works Area – Portion N6</p> <ul style="list-style-type: none"> <li>Adequate water spraying should be applied.</li> <li>Oil-stained soil should be cleaned up as chemical waste.</li> <li>Stockpile should be covered.</li> </ul>	<p>Works Area – Portion N6</p> <ul style="list-style-type: none"> <li>The Contractor was reminded to ensure adequate water spraying on dust generating area.</li> <li>The Contractor was reminded to clean up oil-stained soil as chemical waste.</li> <li>The Contractor was reminded to either apply water spraying or cover the stockpile in dry or windy condition.</li> </ul>
18 June 2014	<p>Barge - GBFC</p> <ul style="list-style-type: none"> <li>Drip tray should be provided to the chemical container.</li> </ul> <p>Reclamation Area – Portion N-A</p> <ul style="list-style-type: none"> <li>Excess sandy materials should be cleared regularly to avoid runoff.</li> <li>Silt curtain should be properly maintained.</li> </ul>	<p>Barge - GBFC</p> <ul style="list-style-type: none"> <li>The Contractor was reminded to provide drip tray to the chemical container.</li> </ul> <p>Reclamation Area – Portion N-A</p> <ul style="list-style-type: none"> <li>The Contractor was reminded to clear the excess sandy materials regularly.</li> <li>The Contractor was reminded to properly maintain the silt curtain.</li> </ul>
25 June 2014	<p>Reclamation Area – Portion N-A</p> <ul style="list-style-type: none"> <li>General refuse should be placed in proper waste container.</li> <li>Drip tray should be maintained in good conditions.</li> </ul>	<p>Reclamation Area – Portion N-A</p> <ul style="list-style-type: none"> <li>The Contractor was reminded to provide waste container for general refuse.</li> <li>The Contractor was reminded to regular check for the capacity of drip trays.</li> </ul>

The Contractor has rectified all of the observations as identified during environmental site inspections in the reporting month.

## 2.5 WASTE MANAGEMENT STATUS

The Contractor had submitted application form for registration as chemical waste producer under the Contract. Sufficient numbers of receptacles were available for general refuse collection and sorting.

Wastes generated during this reporting period include mainly construction wastes (inert and non-inert), imported fill, chemical wastes and marine sediments (Category L and Category M). Reference has been made to the waste flow table prepared by the Contractor (*Appendix M*). The quantities of different types of wastes are summarized in *Table 2.12*.

**Table 2.12 Quantities of Different Waste Generated in the Reporting Month**

Month/Year	Inert Construction Waste <sup>(a)</sup> (tonnes)	Imported Fill (tonnes)	Inert Construction Waste Re-used (tonnes)	Non-inert Construction Waste <sup>(b)</sup> (tonnes)	Recyclable Materials <sup>(c)</sup> (kg)	Chemical Wastes (kg)	Marine Sediment (m <sup>3</sup> )	
							Category L	Category M (M <sub>p</sub> & M <sub>f</sub> )
June 2014	4,393	407,489	0	30	0	30	40,700	7,700

**Notes:**

- (a) Inert construction wastes include hard rock and large broken concrete, and materials disposed as public fill.
- (b) Non-inert construction wastes include general refuse disposed at landfill.
- (c) Recyclable materials include metals, paper, cardboard, plastics, timber and others.

The Contractor was advised to properly maintain on site C&D materials and waste collection, sorting and recording system, dispose of C&D materials and wastes at designated ground and maximize reuse/ recycle of C&D materials and wastes. The Contractor was also reminded to properly maintain the site tidiness and dispose of the wastes accumulated on site regularly and properly.

For chemical waste containers, the Contractor was reminded to treat properly and store temporarily in designated chemical waste storage area on site in accordance with the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes.

## 2.6 ENVIRONMENTAL LICENSES AND PERMITS

The status of environmental licensing and permit is summarized in *Table 2.13* below.

**Table 2.13 Summary of Environmental Licensing and Permit Status**

License/ Permit	License or Permit No.	Date of Issue	Date of Expiry	License/ Permit Holder	Remarks
Environmental Permit	EP-354/2009/B	28 January 2014	Throughout the Contract	HyD	Application for VEP on 20 January 2014 to replace EP-354/2009/A
Construction Dust Notification	363510	19 August 2013	Throughout the Contract	DBJV	-
Chemical Waste Registration	5213-422-D2516-01	10 September 2013	Throughout the Contract	DBJV	-
Construction Waste Disposal Account	7018108	19 August 2013	Throughout the Contract	DBJV	Waste disposal in Contract No. HY/2012/08
Waste Water Discharge License	WT00017707-2013	18 November 2013	30 November 2018	DBJV	For site WA18
Waste Water Discharge License	WT00018433-2014	5 June 2014	30 June 2019	DBJV	For site Portion N6 and Reclamation Area E
Construction Noise Permit	GW-RS0362-14	11 May 2014	10 November 2014	DBJV	For site WA23
Construction Noise Permit	GW-RW0223-14	29 March 2014	28 September 2014	DBJV	For Portion N6
Construction Noise Permit	GW-RW0234-14	29 March 2014	28 September 2014	DBJV	For Dredging and Reclamation Works
Marine Dumping Permit	EP/MD/15-006	1 May 2014	31 October 2014	DBJV	For Type 1
Marine Dumping Permit	EP/MD/15-007	31 May 2014	29 June 2014	DBJV	For Type 1 (Dedicated site) and Type 2

**Notes:**

HyD = Highways Department

DBJV = Dragages - Bouygues Joint Venture

VEP = Variation of Environmental Permit

**2.7** *IMPLEMENTATION STATUS OF ENVIRONMENTAL MITIGATION MEASURES*

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

A summary of the Implementation Schedule of Environmental Mitigation Measures (EMIS) is presented in *Appendix C*. The necessary mitigation measures relevant to this Contract were implemented properly.

**2.8** *SUMMARY OF EXCEEDANCES OF THE ENVIRONMENTAL QUALITY PERFORMANCE LIMIT*

No Action Level or Limit Level exceedances were recorded in the air quality monitoring of this reporting month.

No Action Level or Limit Level exceedances were recorded in the water quality monitoring of this reporting month.

Cumulative statistics are provided in *Appendix L*.

**2.9** *SUMMARY OF COMPLAINTS, NOTIFICATION OF SUMMONS AND SUCCESSFUL PROSECUTIONS*

The Environmental Complaint Handling Procedure is provided in *Figure 2.5*.

No complaints, notification of summons and prosecution were received in the reporting period.

Statistics on complaints, notifications of summons and successful prosecutions are summarized in *Appendix L*.





Figure 2.5

Environmental Complaint Handling Procedure

### 3 FUTURE KEY ISSUES

#### 3.1 CONSTRUCTION ACTIVITIES FOR THE COMING MONTH

As informed by the Contractor, the major works for the Project in July 2014 are summarized in *Table 3.1*.

*Table 3.1 Construction Works to Be Undertaken in the Coming Month*

<b>Works to be undertaken</b>
<i>Marine-based Works</i>
<ul style="list-style-type: none"><li>• Dredging at Portion N-C;</li><li>• Reclamation filling at Portion N-A;</li><li>• Vertical Seawall construction at Portions N-B and N-C;</li><li>• Sloping Seawall construction at Portions N-B and N-C;</li><li>• Box Culvert extension – Backfilling &amp; Tie Rod Installation at Portion N-A;</li><li>• Marine Sheet Piling for Box Culvert extension at Portion N-A; and,</li><li>• Predrilling for Box Culvert Foundation at Portion N-A.</li></ul>
<i>Land-based Works</i>
Portion N6
<ul style="list-style-type: none"><li>• CLP Substation utilities works</li><li>• Bored Piling</li><li>• Pile Cap Construction</li></ul>
Reclamation Area – Portion N-A
<ul style="list-style-type: none"><li>• Diaphragm Wall Construction</li><li>• Construction of Temporary Access</li></ul>

#### 3.2 KEY ISSUES FOR THE COMING MONTH

Potential environmental impacts arising from the above upcoming construction activities in the next reporting month of July 2014 are mainly associated with dust, marine water quality, marine ecology and waste management issues.

#### 3.3 MONITORING SCHEDULE FOR THE COMING MONTH

The tentative schedule for environmental monitoring in July 2014 is provided in *Appendix F*.

#### 4.1 CONCLUSIONS

This Eighth Monthly EM&A Report presents the findings of the EM&A activities undertaken during the period from 1 to 30 June 2014, in accordance with the Updated EM&A Manual and the requirements of EP-354/2009/B.

Air quality (including 1-hour TSP and 24-hour TSP), water quality and dolphin monitoring were carried out in this reporting month. No Action Level or Limit Level exceedances were recorded in the air quality monitoring of this reporting month. No Action Level or Limit Level exceedances were recorded in the water quality monitoring of this reporting month. Nevertheless, the Contractor was reminded to ensure all dust mitigation measures are implemented at the construction site and the proper deployment of silt curtains during the period of marine works under this Contract.

A total of three (3) groups of seven (7) Chinese White Dolphin sightings were recorded during the two sets of surveys in June 2014. All sightings were made in NWL during the surveys in June 2014, with no dolphin being sighted in NEL. Only one sighting was made on primary lines during on-effort search, and none of the dolphin groups was associated with operating fishing vessel. No unacceptable impact from the construction activities of the TM-CLKL Northern Connection Sub-sea Tunnel Section on Chinese White Dolphins was noticeable from general observations during the dolphin monitoring in this reporting month.

Environmental site inspection was carried out four (4) times in June 2014. Recommendations on remedial actions recommended for the deficiencies identified during the site audits were properly implemented by the Contractor.

No non-compliance event was recorded during the reporting period.

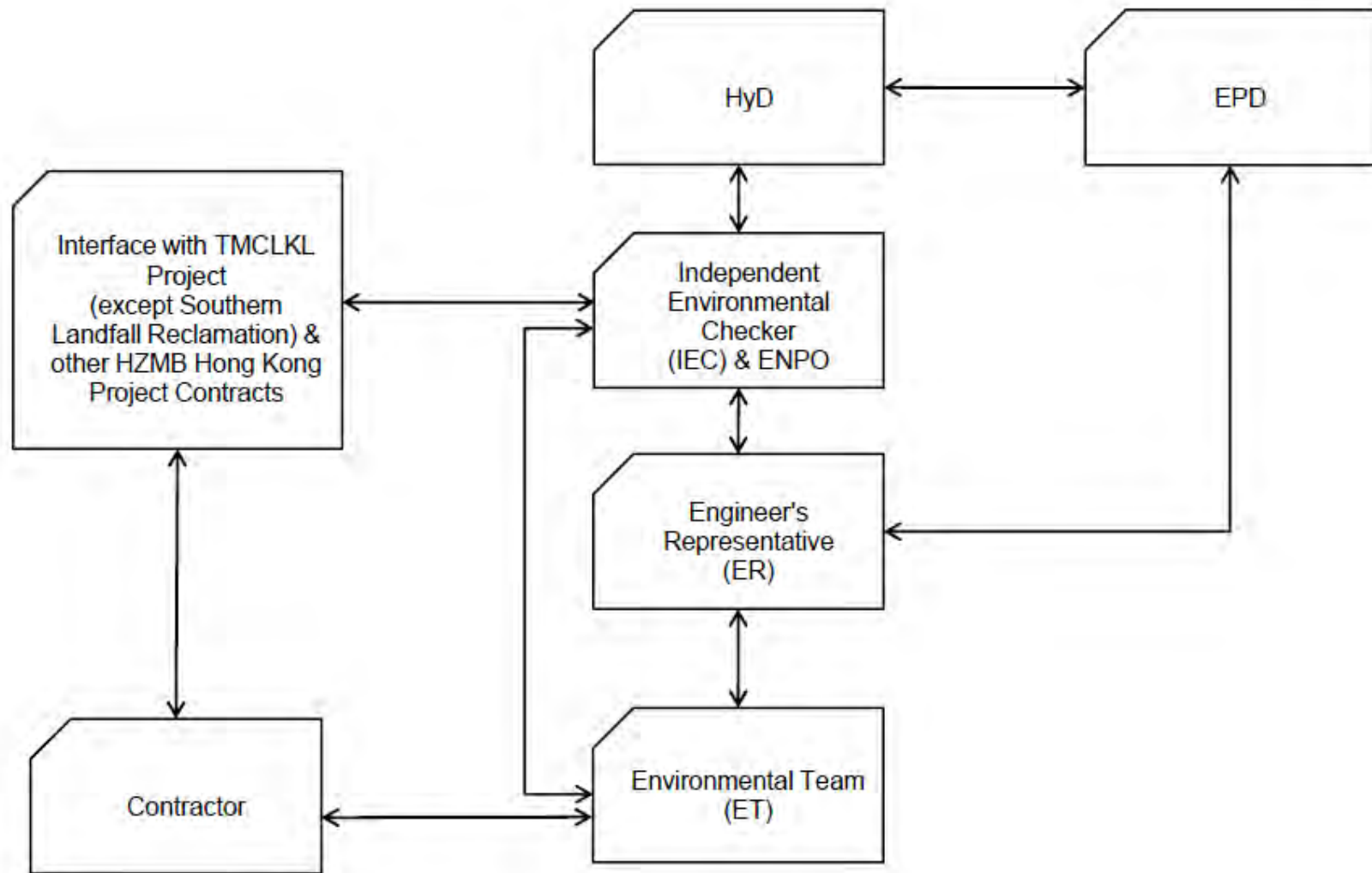
No complaint and summons/ prosecution was received during the reporting period.

No summons/ prosecution was received during the reporting period.

The ET will keep track on the construction works to confirm compliance of environmental requirements and the proper implementation of all necessary mitigation measures.

Appendix A

## Project Organization for Environmental Works



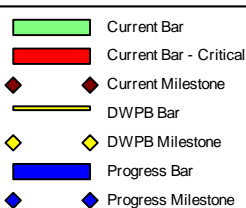
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Appendix B

## Three-Month Rolling Construction Programme

Activity Name	Orig Dur	Planned Start	Planned Finish	Current Start	Current Finish	2014				
						Jun	Jul	Aug	Sep	Oct
<b>TMCLK - Northern Connection Sub-Sea Tunnel Section</b>										
<b>Construction</b>										
<b>Northern Landfall</b>										
<b>North Reclamation (Phase 1)</b>										
<b>Construction</b>										
<b>Ground Investigation</b>										
Ground Investigation (Phase 2) - Northern Landfall & Sub-sea Tunnel	148	25-Oct-13	30-Apr-14	25-Oct-13 A	14-Jun-14 A					
<b>Milestones</b>										
200m Leading Seawall for Reclamation: 400-450 (Zone D2)	0	24-Mar-14		02-Jun-14 A						
200m Leading Seawall for Reclamation: 450-500 (Zone C1)	0	29-Mar-14		18-Jun-14 A						
200m Leading Seawall for Reclamation: 500-550 (Zone C1)	0	04-Apr-14		12-Jul-14						
200m Leading Seawall for Reclamation: 550-600 (Zone C2)	0	11-Apr-14		24-Jul-14						
200m Leading Seawall for Reclamation: 600-650 (Zone B)	0	28-Apr-14		30-Jul-14						
200m Leading Seawall for Reclamation: 650-700 (Zone B)	0	08-May-14		07-Aug-14						
200m Leading Seawall for Reclamation: 700-956 (Zone B, A1 & A2)	0	16-May-14		21-Aug-14						
Completion of Zone E Reclamation up to +6mPD	0		30-Apr-14		19-Jun-14 A					
Completion of Zone D1 Reclamation up to +5.0mPD	0		16-May-14		10-Jul-14					
Completion of Zone D2 Reclamation up to +5.0mPD	0		06-Jun-14		09-Aug-14					
Completion of Zone C1 Reclamation up to +5.0mPD	0		27-Jun-14		29-Aug-14					
Completion Zone C2 Reclamation up to +6mPD	0		02-Jul-14		02-Sep-14					
<b>Zone E</b>										
<b>Vertical Seawall</b>										
VS - Berm Stone - Zone E - (CH0 to 50)	2	06-Jun-14	07-Jun-14	16-Jun-14 A	26-Jun-14 A					
VS - Berm Stone - Zone E - (CH50 to 100)	2	09-Jun-14	10-Jun-14	27-Jun-14 A	30-Jun-14					
VS - Berm Stone - Zone E - (CH100 to 150)	3	11-Jun-14	13-Jun-14	02-Jul-14	04-Jul-14					
VS - Berm Stone - Zone E - (CH150 to 205)	5	14-Jun-14	19-Jun-14	05-Jul-14	10-Jul-14					
VS - Mass Concrete Coping - Zone E - (CH0 to 50)	8	07-May-14	15-May-14	07-Jul-14*	15-Jul-14					
VS - Mass Concrete Coping - Zone E - (CH50 to 100)	8	16-May-14	24-May-14	16-Jul-14	24-Jul-14					
VS - Mass Concrete Coping - Zone E - (CH100 to 150)	8	26-May-14	04-Jun-14	25-Jul-14	02-Aug-14					
VS - Mass Concrete Coping - Zone E - (CH150 to 205)	11	05-Jun-14	17-Jun-14	04-Aug-14	15-Aug-14					
<b>Reclamation</b>										
Public Fill - Zone E - (CH150 to 205) to -2.5mPD	4	28-Mar-14	01-Apr-14	06-May-14 A	09-Jun-14 A					
Public Fill - Zone E - (CH100 to 150) to +2.5mPD	7	20-Mar-14	27-Mar-14	18-Apr-14 A	06-Jun-14 A					
Public Fill - Zone E - (CH150 to 205) to +2.5mPD	7	02-Apr-14	10-Apr-14	20-May-14 A	10-Jun-14 A					
Public Fill - Zone E - (CH100 to 150) to +6.0mPD	7	11-Apr-14	22-Apr-14	09-May-14 A	06-Jun-14 A					
Public Fill - Zone E - (CH150 to 205) to +6.0mPD	7	23-Apr-14	30-Apr-14	14-May-14 A	19-Jun-14 A					
<b>Zone D1</b>										
<b>Vertical Seawall</b>										
VS - Granular Filter - Zone D1 - (CH255 to 305)	4	20-Feb-14	24-Feb-14	20-May-14 A	05-Jun-14 A					
VS - Granular Filter - Zone D1 - (CH305 to 355)	4	25-Feb-14	28-Feb-14	30-Jun-14	02-Jul-14					
VS - Berm Stone - Zone D1 - (CH205 to 255)	6	20-Jun-14	26-Jun-14	11-Jul-14	17-Jul-14					
VS - Berm Stone - Zone D1 - (CH255 to 305)	3	27-Jun-14	30-Jun-14	18-Jul-14	21-Jul-14					
VS - Berm Stone - Zone D1 - (CH305 to 355)	3	02-Jul-14	04-Jul-14	22-Jul-14	24-Jul-14					
VS - Mass Concrete Coping - Zone D1 - (CH205 to 255)	15	18-Jun-14	05-Jul-14	30-Jun-14*	17-Jul-14					
VS - Mass Concrete Coping - Zone D1 - (CH255 to 305)	8	07-Jul-14	15-Jul-14	18-Jul-14	26-Jul-14					
VS - Mass Concrete Coping - Zone D1 - (CH305 to 355)	8	16-Jul-14	24-Jul-14	28-Jul-14	05-Aug-14					
<b>Sloping Seawall</b>										
VS - Berm Stone - Zone D1 - RTT	2	20-Jun-14	21-Jun-14	11-Jul-14	12-Jul-14					
VS - Mass Concrete Coping - Zone D1 - RTT	4	07-May-14	10-May-14	30-Jun-14	04-Jul-14					
SS - Armour Rock Underlayer - Zone D1 - (CH255 to 305)	5	27-Dec-13	02-Jan-14	30-Jun-14	05-Jul-14					
SS - Armour Rock Underlayer - Zone D1 - (CH305 to 355)	5	03-Jan-14	08-Jan-14	07-Jul-14	11-Jul-14					
SS - Armour Rock - Zone D1 - (CH255 to 305)	4	03-Jan-14	07-Jan-14	07-Jul-14	10-Jul-14					
SS - Armour Rock - Zone D1 - (CH305 to 355)	4	08-Jan-14	11-Jan-14	11-Jul-14	15-Jul-14					
SS - Mass Concrete Coping - Zone D1 - (CH255 to 305)	7	12-May-14	19-May-14	11-Jul-14	18-Jul-14					
SS - Mass Concrete Coping - Zone D1 - (CH305 to 355)	7	20-May-14	27-May-14	19-Jul-14	26-Jul-14					
Reclamation - Band Drain - Zone D1 - (CH255 to 305)	5	17-Mar-14	21-Mar-14	12-May-14 A	19-Jun-14 A					
Reclamation - Band Drain - Zone D1 - (CH305 to 355)	5	24-Mar-14	28-Mar-14	20-May-14 A	19-Jun-14 A					
<b>Reclamation</b>										
Compacted Sandfill - Zone D1 - (CH255 to 305) to -2.5mPD	3	07-Apr-14	09-Apr-14	02-Jun-14 A	06-Jun-14 A					
Compacted Sandfill - Zone D1 - (CH305 to 355) to -2.5mPD	3	10-Apr-14	12-Apr-14	03-Jun-14 A	07-Jun-14 A					
Public Fill - Zone D1 - (CH205 to 255) to -2.5mPD	1	07-Apr-14	07-Apr-14	21-May-14 A	06-Jun-14 A					
Public Fill - Zone D1 - (CH255 to 305) to -2.5mPD	2	10-Apr-14	11-Apr-14	03-Jun-14 A	14-Jun-14 A					
Public Fill - Zone D1 - (CH305 to 355) to -2.5mPD	2	14-Apr-14	15-Apr-14	17-Jun-14 A	17-Jun-14 A					
Compacted Sandfill - Zone D1 - (CH255 to 305) to +2.5mPD	3	12-Apr-14	15-Apr-14	04-Jun-14 A	07-Jun-14 A					
Compacted Sandfill - Zone D1 - (CH305 to 355) to +2.5mPD	3	16-Apr-14	22-Apr-14	27-May-14 A	09-Jun-14 A					

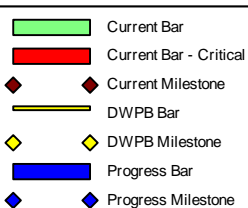
Activity Name	Orig Dur	Planned Start	Planned Finish	Current Start	Current Finish	2014				
						Jun	Jul	Aug	Sep	Oct
Public Fill - Zone D1 - (CH205 to 255) to +2.5mPD	4	11-Apr-14	15-Apr-14	02-Jun-14 A	14-Jun-14 A	■	■			
Public Fill - Zone D1 - (CH255 to 305) to +2.5mPD	4	16-Apr-14	23-Apr-14	09-Jun-14 A	25-Jun-14 A	■	■			
Public Fill - Zone D1 - (CH305 to 355) to +2.5mPD	4	24-Apr-14	28-Apr-14	24-Jun-14 A	05-Jul-14	■	■			
Compacted Sandfill - Zone D1 - (CH205 to 255) to +5.0mPD	2	16-Apr-14	17-Apr-14	18-Jun-14 A	20-Jun-14 A	■	■			
Compacted Sandfill - Zone D1 - (CH255 to 305) to +5.0mPD	2	24-Apr-14	25-Apr-14	18-Jun-14 A	21-Jun-14 A	■	■			
Compacted Sandfill - Zone D1 - (CH305 to 355) to +5.0mPD	2	29-Apr-14	30-Apr-14	23-Jun-14 A	24-Jun-14 A	■	■			
Public Fill - Zone D1 - (CH205 to 255) to +5.0mPD	4	02-May-14	07-May-14	23-Jun-14 A	30-Jun-14	■	■			
Public Fill - Zone D1 - (CH255 to 305) to +5.0mPD	4	08-May-14	12-May-14	25-Jun-14 A	04-Jul-14	■	■			
Public Fill - Zone D1 - (CH305 to 355) to +5.0mPD	4	13-May-14	16-May-14	07-Jul-14	10-Jul-14	■	■			
<b>Zone D2</b>										
<b>Vertical Seawall</b>										
VS - Granular Filter - Zone D2 - (CH355 to 405)	4	01-Mar-14	05-Mar-14	03-Jul-14	03-Jul-14	■	■			
VS - Granular Filter - Zone D2 - (CH405 to 443)	4	06-Mar-14	10-Mar-14	04-Jul-14	08-Jul-14	■	■			
VS - Berm Stone - Zone D2 - (CH355 to 405)	3	05-Jul-14	08-Jul-14	25-Jul-14	28-Jul-14	■	■			
VS - Berm Stone - Zone D2 - (CH405 to 443)	3	09-Jul-14	11-Jul-14	29-Jul-14	31-Jul-14	■	■			
VS - Mass Concrete Coping - Zone D2 - (CH355 to 405)	8	25-Jul-14	02-Aug-14	16-Jul-14	25-Jul-14	■	■			
VS - Mass Concrete Coping - Zone D2 - (CH405 to 443)	8	04-Aug-14	12-Aug-14	28-Jul-14	06-Aug-14	■	■			
<b>Sloping Seawall</b>										
SS - Armour Rock Underlayer - Zone D2 - (CH355 to 405)	5	09-Jan-14	14-Jan-14	12-Jul-14	17-Jul-14	■	■			
SS - Armour Rock Underlayer - Zone D2 - (CH405 to 443)	5	15-Jan-14	20-Jan-14	18-Jul-14	23-Jul-14	■	■			
SS - Armour Rock - Zone D2 - (CH355 to 405)	4	13-Jan-14	16-Jan-14	16-Jul-14	19-Jul-14	■	■			
SS - Armour Rock - Zone D2 - (CH405 to 443)	4	17-Jan-14	21-Jan-14	21-Jul-14	24-Jul-14	■	■			
SS - Mass Concrete Coping - Zone D2 - (CH355 to 405)	7	28-May-14	05-Jun-14	28-Jul-14	04-Aug-14	■	■			
SS - Mass Concrete Coping - Zone D2 - (CH405 to 443)	7	06-Jun-14	13-Jun-14	05-Aug-14	12-Aug-14	■	■			
Sloping - Rockfill Type A - Zone D2 - (CH355 to 405)	1	08-Jan-14	08-Jan-14	16-Jun-14 A	16-Jun-14 A	■	■			
Sloping - Rockfill Type A - Zone D2 - (CH405 to 443)	1	17-Jan-14	17-Jan-14	09-Jun-14 A	09-Jun-14 A	■	■			
Sloping - Geotextile - Zone D2 - (CH355 to 405)	1	09-Jan-14	09-Jan-14	09-Jun-14 A	09-Jun-14 A	■	■			
Sloping - Geotextile - Zone D2 - (CH405 to 443)	1	18-Jan-14	18-Jan-14	09-Jun-14 A	09-Jun-14 A	■	■			
Sloping - Granular Filter - Zone D2 - (CH355 to 405)	2	10-Jan-14	11-Jan-14	16-Jun-14 A	18-Jun-14 A	■	■			
Sloping - Granular Filter - Zone D2 - (CH405 to 443)	2	20-Jan-14	21-Jan-14	23-Jun-14 A	23-Jun-14 A	■	■			
<b>Reclamation</b>										
Compacted Sandfill - Zone D2 - (CH355 to 405) to -2.5mPD	3	14-Apr-14	16-Apr-14	02-Jun-14 A	17-Jun-14 A	■	■			
Compacted Sandfill - Zone D2 - (CH405 to 443) to -2.5mPD	2	17-Apr-14	22-Apr-14	17-Jun-14 A	03-Jul-14	■	■			
Public Fill - Zone D2 - (CH355 to 405) to -2.5mPD	4	17-Apr-14	24-Apr-14	17-Jun-14 A	03-Jul-14	■	■			
Public Fill - Zone D2 - (CH405 to 443) to -2.5mPD	4	25-Apr-14	29-Apr-14	04-Jul-14	08-Jul-14	■	■			
Compacted Sandfill - Zone D2 - (CH355 to 405) to +2.5mPD	6	25-Apr-14	02-May-14	24-Jun-14 A	08-Jul-14	■	■			
Compacted Sandfill - Zone D2 - (CH405 to 443) to +2.5mPD	5	03-May-14	09-May-14	09-Jul-14	14-Jul-14	■	■			
Public Fill - Zone D2 - (CH355 to 405) to +2.5mPD	10	03-May-14	15-May-14	09-Jul-14	19-Jul-14	■	■			
Public Fill - Zone D2 - (CH405 to 443) to +2.5mPD	10	16-May-14	27-May-14	21-Jul-14	31-Jul-14	■	■			
Compacted Sandfill - Zone D2 - (CH355 to 405) to +5.0mPD	4	16-May-14	20-May-14	21-Jul-14	24-Jul-14	■	■			
Compacted Sandfill - Zone D2 - (CH405 to 443) to +5.0mPD	4	28-May-14	31-May-14	01-Aug-14	05-Aug-14	■	■			
Public Fill - Zone D2 - (CH355 to 405) to +5.0mPD	4	21-May-14	24-May-14	25-Jul-14	29-Jul-14	■	■			
Public Fill - Zone D2 - (CH405 to 443) to +5.0mPD	4	03-Jun-14	06-Jun-14	06-Aug-14	09-Aug-14	■	■			
Reclamation - Sand Blanket - Zone D2 - (CH405 to 443)	2	04-Apr-14	07-Apr-14	12-May-14 A	03-Jun-14 A	■	■			
Reclamation - Band Drain - Zone D2 - (CH355 to 405)	5	31-Mar-14	04-Apr-14	16-Jun-14 A	19-Jun-14 A	■	■			
Reclamation - Band Drain - Zone D2 - (CH405 to 443)	5	08-Apr-14	12-Apr-14	18-Jun-14 A	21-Jun-14 A	■	■			
<b>Zone C1</b>										
<b>Vertical Seawall</b>										
VS - Seawall Block - Zone C1 - (CH443 to 493)	9	20-Feb-14	01-Mar-14	10-Apr-14 A	05-Jun-14 A	■	■			
VS - Seawall Block - Zone C1 - (CH493 to 543)	9	03-Mar-14	12-Mar-14	30-Apr-14 A	18-Jun-14 A	■	■			
VS - Rockfill Type A - Zone C1 - (CH443 to 493)	3	13-Mar-14	15-Mar-14	02-May-14 A	19-Jun-14 A	■	■			
VS - Rockfill Type A - Zone C1 - (CH493 to 543)	3	17-Mar-14	19-Mar-14	09-Jun-14 A	24-Jun-14 A	■	■			
VS - Geotextile - Zone C1 - (CH443 to 493)	2	20-Mar-14	21-Mar-14	30-Jun-14	02-Jul-14	■	■			
VS - Geotextile - Zone C1 - (CH493 to 543)	2	22-Mar-14	24-Mar-14	03-Jul-14	04-Jul-14	■	■			
VS - Granular Filter - Zone C1 - (CH443 to 493)	4	25-Mar-14	28-Mar-14	05-Jul-14	09-Jul-14	■	■			
VS - Granular Filter - Zone C1 - (CH493 to 543)	4	29-Mar-14	02-Apr-14	10-Jul-14	14-Jul-14	■	■			
VS - Berm Stone - Zone C1 - (CH443 to 493)	3	12-Jul-14	15-Jul-14	01-Aug-14	04-Aug-14	■	■			
VS - Berm Stone - Zone C1 - (CH493 to 543)	3	16-Jul-14	18-Jul-14	05-Aug-14	07-Aug-14	■	■			
VS - Mass Concrete Coping - Zone C1 - (CH443 to 493)	8	13-Aug-14	21-Aug-14	11-Aug-14	20-Aug-14	■	■			
VS - Mass Concrete Coping - Zone C1 - (CH493 to 543)	8	22-Aug-14	30-Aug-14	20-Aug-14	28-Aug-14	■	■			
<b>Sloping Seawall</b>										
SS - Armour Rock Underlayer - Zone C1 - (CH443 to 493)	5	27-Jan-14	07-Feb-14	24-Jul-14	29-Jul-14	■	■			
SS - Armour Rock Underlayer - Zone C1 - (CH493 to 543)	5	12-Feb-14	17-Feb-14	30-Jul-14	04-Aug-14	■	■			
SS - Armour Rock - Zone C1 - (CH443 to 493)	4	27-Feb-14	03-Mar-14	11-Aug-14	14-Aug-14	■	■			
SS - Armour Rock - Zone C1 - (CH493 to 543)	4	04-Mar-14	07-Mar-14	15-Aug-14	19-Aug-14	■	■			



Date	Revision	Checked	Approved
12-Feb-14	TMCLKDBJEN/PRG98507 Rev A	WYu	SPe
08-Apr-14	TMCLKDBJEN/PRG98507 Rev B	SPe	WYu



Activity Name	Orig Dur	Planned Start	Planned Finish	Current Start	Current Finish	2014				
						Jun	Jul	Aug	Sep	Oct
SS - Mass Concrete Coping - Zone C1 - (CH443 to 493)	7	14-Jun-14	21-Jun-14	12-Aug-14	20-Aug-14					
SS - Mass Concrete Coping - Zone C1 - (CH493 to 543)	7	23-Jun-14	30-Jun-14	20-Aug-14	27-Aug-14					
Sloping - Rockfill Type A - Zone C1 - (CH443 to 493)	1	27-Jan-14	27-Jan-14	15-Jun-14 A	15-Jun-14 A					
Sloping - Rockfill Type A - Zone C1 - (CH493 to 543)	1	12-Feb-14	12-Feb-14	23-Jun-14 A	28-Jun-14 A					
Sloping - Geotextile - Zone C1 - (CH443 to 493)	1	28-Jan-14	28-Jan-14	30-Jun-14	30-Jun-14					
Sloping - Geotextile - Zone C1 - (CH493 to 453)	1	13-Feb-14	13-Feb-14	02-Jul-14	02-Jul-14					
Sloping - Granular Filter - Zone C1 - (CH443 to 493)	3	29-Jan-14	07-Feb-14	03-Jul-14 A	02-Jul-14					
Sloping - Granular Filter - Zone C1 - (CH493 to 543)	3	14-Feb-14	17-Feb-14	03-Jul-14	05-Jul-14					
<b>Reclamation</b>										
Compacted Sandfill - Zone C1 - (CH443 to 493) to -2.5mPD	2	28-May-14	29-May-14	19-Jun-14 A	01-Aug-14					
Compacted Sandfill - Zone C1 - (CH493 to 543) to -2.5mPD	2	30-May-14	31-May-14	19-Jun-14 A	02-Aug-14					
Public Fill - Zone C1 - (CH443 to 493) to -2.5mPD	2	30-May-14	31-May-14	02-Aug-14	04-Aug-14					
Public Fill - Zone C1 - (CH493 to 543) to -2.5mPD	2	03-Jun-14	04-Jun-14	05-Aug-14	06-Aug-14					
Compacted Sandfill - Zone C1 - (CH443 to 493) to +2.5mPD	5	03-Jun-14	07-Jun-14	05-Aug-14	09-Aug-14					
Compacted Sandfill - Zone C1 - (CH493 to 543) to +2.5mPD	5	09-Jun-14	13-Jun-14	11-Aug-14	15-Aug-14					
Public Fill - Zone C1 - (CH443 to 493) to +2.5mPD	4	09-Jun-14	12-Jun-14	11-Aug-14	14-Aug-14					
Public Fill - Zone C1 - (CH493 to 543) to +2.5mPD	4	14-Jun-14	18-Jun-14	16-Aug-14	20-Aug-14					
Compacted Sandfill - Zone C1 - (CH443 to 493) to +5.0mPD	4	13-Jun-14	17-Jun-14	15-Aug-14	19-Aug-14					
Compacted Sandfill - Zone C1 - (CH493 to 543) to +5.0mPD	4	19-Jun-14	23-Jun-14	21-Aug-14	25-Aug-14					
Public Fill - Zone C1 - (CH443 to 493) to +5.0mPD	4	18-Jun-14	21-Jun-14	20-Aug-14	23-Aug-14					
Public Fill - Zone C1 - (CH493 to 543) to +5.0mPD	4	24-Jun-14	27-Jun-14	26-Aug-14	29-Aug-14					
Reclamation - Geotextile - Zone C1 - (CH493 to 543)	4	10-Apr-14	14-Apr-14	01-Jun-14 A	02-Jun-14 A					
Reclamation - Sand Blanket - Zone C1 - (CH443 to 493)	2	10-Apr-14	11-Apr-14	02-Jun-14 A	06-Jun-14 A					
Reclamation - Sand Blanket - Zone C1 - (CH493 to 543)	2	15-Apr-14	16-Apr-14	02-Jun-14 A	20-Jun-14 A					
Reclamation - Band Drain - Zone C1 - (CH443 to 493)	4	14-Apr-14	17-Apr-14	19-Jun-14 A	11-Jul-14					
Reclamation - Band Drain - Zone C1 - (CH493 to 543)	4	22-Apr-14	25-Apr-14	12-Jul-14	16-Jul-14					
<b>Zone C2</b>										
<b>Vertical Seawall</b>										
VS - Seawall Block - Zone C2 - (CH543 to 598)	9	13-Mar-14	22-Mar-14	05-May-14 A	28-Jun-14 A					
VS - Rockfill Type A - Zone C2 - (CH543 to 598)	3	20-Mar-14	22-Mar-14	28-Jun-14 A	02-Jul-14					
VS - Geotextile - Zone C2 - (CH543 to 598)	2	25-Mar-14	26-Mar-14	05-Jul-14	07-Jul-14					
VS - Granular Filter - Zone C2 - (CH543 to 598)	4	03-Apr-14	08-Apr-14	15-Jul-14	18-Jul-14					
VS - Berm Stone - Zone C2 - (CH543 to 598)	3	19-Jul-14	22-Jul-14	08-Aug-14	11-Aug-14					
VS - Mass Concrete Coping - Zone C2 - (CH543 to 598)	8	22-Aug-14	30-Aug-14	22-Aug-14	01-Sep-14					
<b>Sloping Seawall</b>										
SS - Rock Grade 400 - Zone C2 - (CH543 to 598) to +2.5mPD	8	12-Feb-14	20-Feb-14	18-Mar-14 A	25-Jun-14 A					
SS - Armour Rock Underlayer - Zone C2 - (CH543 to 598)	5	21-Feb-14	26-Feb-14	05-Aug-14	09-Aug-14					
SS - Armour Rock - Zone C2 - (CH543 to 598)	4	08-Mar-14	12-Mar-14	20-Aug-14	23-Aug-14					
SS - Mass Concrete Coping - Zone C2 - (CH543 to 598)	7	02-Jul-14	09-Jul-14	28-Aug-14	04-Sep-14					
Sloping - Rockfill Type A - Zone C2 - (CH543 to 598)	1	21-Feb-14	21-Feb-14	30-Jun-14	30-Jun-14					
Sloping - Geotextile - Zone C2 - (CH543 to 598)	1	22-Feb-14	22-Feb-14	03-Jul-14	03-Jul-14					
Sloping - Granular Filter - Zone C2 - (CH543 to 598)	3	24-Feb-14	26-Feb-14	07-Jul-14	09-Jul-14					
<b>Reclamation</b>										
Reclamation - Geotextile - Zone C2 - (CH543 to 598)	4	15-Apr-14	22-Apr-14	10-Jul-14	14-Jul-14					
Reclamation - Sand Blanket - Zone C2 - (CH543 to 598)	2	23-Apr-14	24-Apr-14	09-Jun-14 A	28-Jun-14 A					
Reclamation - Band Drain - Zone C2 - (CH543 to 598)	4	26-Apr-14	30-Apr-14	17-Jul-14	21-Jul-14					
Public Fill - Zone C2 - (CH543 to 598) to -2.5mPD	2	09-Jun-14	10-Jun-14	11-Aug-14	12-Aug-14					
Public Fill - Zone C2 - (CH543 to 598) to +2.5mPD	6	23-Jun-14	28-Jun-14	25-Aug-14	30-Aug-14					
Public Fill - Zone C2 - (CH543 to 598) to +6.0mPD	2	30-Jun-14	02-Jul-14	01-Sep-14	02-Sep-14					
<b>Zone B</b>										
<b>Vertical Seawall</b>										
VS - Rock Grade 400 - Zone B - (CH698 to 738)	5	25-Jan-14	30-Jan-14	24-Mar-14 A	06-Jun-14 A					
VS - Levelling Stone - Zone B - (CH648 to 698)	4	08-Feb-14	12-Feb-14	09-Jun-14 A	09-Jun-14 A					
VS - Levelling Stone - Zone B - (CH698 to 738)	4	13-Feb-14	17-Feb-14	13-Jun-14 A	13-Jun-14 A					
VS - Seawall Block - Zone B - (CH598 to 648)	5	24-Mar-14	28-Mar-14	02-Jun-14 A	30-Jun-14					
VS - Seawall Block - Zone B - (CH648 to 698)	5	29-Mar-14	03-Apr-14	18-Jun-14 A	04-Jul-14					
VS - Seawall Block - Zone B - (CH698 to 738)	5	04-Apr-14	10-Apr-14	20-Jun-14 A	09-Jul-14					
VS - Rockfill Type A - Zone B - (CH598 to 648)	3	04-Apr-14	08-Apr-14	05-Jul-14	08-Jul-14					
VS - Rockfill Type A - Zone B - (CH648 to 698)	3	09-Apr-14	11-Apr-14	09-Jul-14	11-Jul-14					
VS - Rockfill Type A - Zone B - (CH698 to 738)	3	12-Apr-14	15-Apr-14	12-Jul-14	15-Jul-14					
VS - Geotextile - Zone B - (CH598 to 648)	2	12-Apr-14	14-Apr-14	12-Jul-14	14-Jul-14					
VS - Geotextile - Zone B - (CH648 to 698)	2	15-Apr-14	16-Apr-14	15-Jul-14	16-Jul-14					
VS - Geotextile - Zone B - (CH698 to 738)	2	17-Apr-14	22-Apr-14	17-Jul-14	18-Jul-14					
VS - Granular Filter - Zone B - (CH598 to 648)	4	17-Apr-14	24-Apr-14	17-Jul-14	21-Jul-14					
VS - Granular Filter - Zone B - (CH648 to 698)	4	25-Apr-14	29-Apr-14	22-Jul-14	25-Jul-14					



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12-Feb-14	TMCLKDBJEN/PRG98507 Rev A	WYu	SPo
08-Apr-14	TMCLKDBJEN/PRG98507 Rev B	SPo	WYu

Activity Name	Orig Dur	Planned Start	Planned Finish	Current Start	Current Finish	2014				
						Jun	Jul	Aug	Sep	Oct
VS - Granular Filter - Zone B - (CH698 to 738)	4	30-Apr-14	05-May-14	26-Jul-14	30-Jul-14					
VS - Berm Stone - Zone B - (CH598 to 648)	3	23-Jul-14	25-Jul-14	12-Aug-14	14-Aug-14					
VS - Berm Stone - Zone B - (CH648 to 698)	3	26-Jul-14	29-Jul-14	15-Aug-14	18-Aug-14					
VS - Berm Stone - Zone B - (CH698 to 738)	3	30-Jul-14	01-Aug-14	19-Aug-14	21-Aug-14					
VS - Mass Concrete Coping - Zone B - (CH598 to 648)	8	01-Sep-14	10-Sep-14	01-Sep-14	10-Sep-14					
VS - Mass Concrete Coping - Zone B - (CH648 to 698)	8	11-Sep-14	19-Sep-14	11-Sep-14	19-Sep-14					
VS - Mass Concrete Coping - Zone B - (CH698 to 738)	8	20-Sep-14	29-Sep-14	20-Sep-14	29-Sep-14					
<b>Sloping Seawall</b>										
SS - Rock Grade 400 - Zone B - (CH598 to 648) to +2.5mPD	9	21-Feb-14	03-Mar-14	26-Mar-14 A	04-Jul-14					
SS - Rock Grade 400 - Zone B - (CH648 to 698) to +2.5mPD	9	04-Mar-14	13-Mar-14	02-Apr-14 A	11-Jul-14					
SS - Rock Grade 400 - Zone B - (CH698 to 738) to +2.5mPD	10	14-Mar-14	25-Mar-14	12-May-14 A	23-Jul-14					
SS - Armour Rock Underlayer - Zone B - (CH598 to 648)	5	04-Mar-14	08-Mar-14	11-Aug-14	15-Aug-14					
SS - Armour Rock Underlayer - Zone B - (CH648 to 698)	5	14-Mar-14	19-Mar-14	16-Aug-14	21-Aug-14					
SS - Armour Rock Underlayer - Zone B - (CH698 to 738)	5	26-Mar-14	31-Mar-14	22-Aug-14	27-Aug-14					
SS - Armour Rock - Zone B - (CH598 to 648)	4	01-Apr-14	04-Apr-14	28-Aug-14	01-Sep-14					
SS - Armour Rock - Zone B - (CH648 to 698)	4	07-Apr-14	10-Apr-14	02-Sep-14	05-Sep-14					
SS - Armour Rock - Zone B - (CH698 to 738)	4	11-Apr-14	15-Apr-14	06-Sep-14	11-Sep-14					
SS - Mass Concrete Coping - Zone B - (CH598 to 648)	7	10-Jul-14	17-Jul-14	05-Sep-14	13-Sep-14					
SS - Mass Concrete Coping - Zone B - (CH648 to 698)	7	18-Jul-14	25-Jul-14	15-Sep-14	22-Sep-14					
SS - Mass Concrete Coping - Zone B - (CH698 to 738)	7	26-Jul-14	02-Aug-14	23-Sep-14	30-Sep-14					
Sloping - Rockfill Type A - Zone B - (CH598 to 648)	1	04-Mar-14	04-Mar-14	05-Jul-14	05-Jul-14					
Sloping - Rockfill Type A - Zone B - (CH648 to 698)	1	14-Mar-14	14-Mar-14	12-Jul-14	12-Jul-14					
Sloping - Rockfill Type A - Zone B - (CH698 to 738)	1	26-Mar-14	26-Mar-14	24-Jul-14	24-Jul-14					
Sloping - Geotextile - Zone B - (CH598 to 648)	1	05-Mar-14	05-Mar-14	07-Jul-14	07-Jul-14					
Sloping - Geotextile - Zone B - (CH648 to 698)	1	15-Mar-14	15-Mar-14	14-Jul-14	14-Jul-14					
Sloping - Geotextile - Zone B - (CH698 to 738)	1	27-Mar-14	27-Mar-14	25-Jul-14	25-Jul-14					
Sloping - Granular Filter - Zone B - (CH598 to 648)	2	06-Mar-14	07-Mar-14	10-Jul-14	11-Jul-14					
Sloping - Granular Filter - Zone B - (CH648 to 698)	3	17-Mar-14	19-Mar-14	15-Jul-14	17-Jul-14					
Sloping - Granular Filter - Zone B - (CH698 to 738)	3	28-Mar-14	31-Mar-14	26-Jul-14	29-Jul-14					
<b>Reclamation</b>										
Reclamation - Geotextile - Zone B - (CH598 to 648)	4	23-Apr-14	26-Apr-14	15-Jul-14	18-Jul-14					
Reclamation - Geotextile - Zone B - (CH488 to 698)	4	28-Apr-14	02-May-14	19-Jul-14	23-Jul-14					
Reclamation - Geotextile - Zone B - (CH598 to 738)	4	03-May-14	08-May-14	30-Jul-14	02-Aug-14					
Reclamation - Sand Blanket - Zone B - (CH598 to 648)	2	28-Apr-14	29-Apr-14	19-Jul-14	21-Jul-14					
Reclamation - Sand Blanket - Zone B - (CH648 to 698)	2	03-May-14	05-May-14	24-Jul-14	25-Jul-14					
Reclamation - Sand Blanket - Zone B - (CH698 to 738)	2	09-May-14	10-May-14	04-Aug-14	05-Aug-14					
Reclamation - Band Drain - Zone B - (CH598 to 648)	4	02-May-14	07-May-14	22-Jul-14	25-Jul-14					
Reclamation - Band Drain - Zone B - (CH648 to 698)	4	08-May-14	12-May-14	26-Jul-14	30-Jul-14					
Reclamation - Band Drain - Zone B - (CH698 to 738)	4	13-May-14	16-May-14	06-Aug-14	09-Aug-14					
Public Fill - Zone B - (CH598 to 648) to -2.5mPD	3	19-Jun-14	21-Jun-14	21-Aug-14	23-Aug-14					
Public Fill - Zone B - (CH648 to 698) to -2.5mPD	3	23-Jun-14	25-Jun-14	25-Aug-14	27-Aug-14					
Public Fill - Zone B - (CH698 to 738) to -2.5mPD	3	26-Jun-14	28-Jun-14	28-Aug-14	30-Aug-14					
Public Fill - Zone B - (CH598 to 648) to +2.5mPD	7	30-Jun-14	08-Jul-14	01-Sep-14	08-Sep-14					
Public Fill - Zone B - (CH648 to 698) to +2.5mPD	7	09-Jul-14	16-Jul-14	10-Sep-14	17-Sep-14					
Public Fill - Zone B - (CH698 to 738) to +2.5mPD	7	17-Jul-14	24-Jul-14	18-Sep-14	25-Sep-14					
Public Fill - Zone B - (CH598 to 648) to +6.0mPD	7	09-Jul-14	16-Jul-14	10-Sep-14	17-Sep-14					
Public Fill - Zone B - (CH648 to 698) to +6.0mPD	7	17-Jul-14	24-Jul-14	18-Sep-14	25-Sep-14					
Public Fill - Zone B - (CH698 to 738) to +6.0mPD	7	25-Jul-14	01-Aug-14	26-Sep-14	06-Oct-14					
Public Fill - Zone B - (CH648 to 698) to +10mPD	0			26-Sep-14	04-Oct-14					
<b>Zone A1</b>										
<b>Vertical Seawall</b>										
VS - Rock Grade 400 - Zone A1 - (CH738 to 793)	5	07-Feb-14	12-Feb-14	01-Apr-14 A	09-Jun-14 A					
VS - Levelling Stone - Zone A1 - (CH738 to 793)	4	18-Feb-14	21-Feb-14	18-Jun-14 A	21-Jun-14 A					
VS - Seawall Block - Zone A1 - (CH738 to 793)	11	11-Apr-14	26-Apr-14	10-Jul-14	22-Jul-14					
VS - Rockfill Type A - Zone A1 - (CH738 to 793)	3	28-Apr-14	30-Apr-14	23-Jul-14	25-Jul-14					
VS - Geotextile - Zone A1 - (CH738 to 793)	2	02-May-14	03-May-14	26-Jul-14	28-Jul-14					
VS - Granular Filter - Zone A1 - (CH738 to 793)	4	07-May-14	10-May-14	31-Jul-14	04-Aug-14					
VS - Berm Stone - Zone A1 - (CH738 to 793)	3	02-Aug-14	05-Aug-14	22-Aug-14	25-Aug-14					
<b>Sloping Seawall</b>										
SS - Rock Grade 400 - Zone A1 - (CH738 to 793) to +2.5mPD (4k/d)	5	26-Mar-14	31-Mar-14	27-May-14 A	29-Jul-14					
SS - Armour Rock Underlayer - Zone A1 - (CH738 to 793)	5	01-Apr-14	07-Apr-14	28-Aug-14	02-Sep-14					
SS - Armour Rock - Zone A1 - (CH738 to 793)	4	16-Apr-14	23-Apr-14	12-Sep-14	16-Sep-14					
Sloping - Rockfill Type A - Zone A1 - (CH738 to 793)	1	01-Apr-14	01-Apr-14	30-Jul-14	30-Jul-14					
Sloping - Geotextile - Zone A1 - (CH738 to 793)	2	02-Apr-14	03-Apr-14	31-Jul-14	01-Aug-14					
Sloping - Granular Filter - Zone A1 - (CH738 to 793)	3	04-Apr-14	08-Apr-14	02-Aug-14	05-Aug-14					

- Current Bar
- Current Bar - Critical
- ◆ Current Milestone
- DWPB Bar
- ◆ DWPB Milestone
- Progress Bar
- ◆ Progress Milestone

TMCLK - Northern Connection Sub-sea Tunnel Section  
 Three-months Rolling Programme  
 As of 30-Jun-2014



Date	Revision	Checked	Approved
12-Feb-14	TMCLKDBJEN/PRG98507 Rev A	WYu	SPe
08-Apr-14	TMCLKDBJEN/PRG98507 Rev B	SPe	WYu



Activity Name	Orig Dur	Planned Start	Planned Finish	Current Start	Current Finish	2014				
						Jun	Jul	Aug	Sep	Oct
<b>Reclamation</b>										
Reclamation - Geotextile - Zone A1 - (CH738 to 793)	4	09-May-14	13-May-14	06-Aug-14	09-Aug-14			■	Reclamation - Geotextile - Zone A1 - (	
Reclamation - Sand Blanket - Zone A1 - (CH738 to 793)	2	14-May-14	15-May-14	11-Aug-14	12-Aug-14			■	Reclamation - Sand Blanket - Zone A	
Reclamation - Band Drain - Zone A1 - (CH738 to 793)	4	17-May-14	21-May-14	13-Aug-14	16-Aug-14			■	Reclamation - Band Drain - Zone A	
Public Fill - Zone A1 - (CH738 to 793) to -2.5mPD	3	30-Jun-14	03-Jul-14	01-Sep-14	03-Sep-14			■	Public Fill - Zone A1 - (CH	
Public Fill - Zone A1 - (CH738 to 793) to +2.5mPD	7	25-Jul-14	01-Aug-14	26-Sep-14	06-Oct-14			■	Public Fill	
<b>Zone A2</b>										
<b>Vertical Seawall</b>										
VS - Dredging - Zone A2 - (CH793 to 843)	3	28-Jan-14	30-Jan-14	25-Mar-14 A	01-Jun-14 A	■			VS - Dredging - Zone A2 - (CH793 to 843)	
VS - Dredging - Zone A2 - (CH843 to 893)	4	07-Feb-14	11-Feb-14	06-Apr-14 A	25-Jun-14 A	■			VS - Dredging - Zone A2 - (CH843 to 893)	
VS - Dredging - Zone A2 - (CH893 to 956)	11	12-Feb-14	24-Feb-14	21-Jun-14 A	25-Jun-14 A	■			VS - Dredging - Zone A2 - (CH893 to 956)	
VS - Rock Grade 400 - Zone A2 - (CH793 to 843)	5	13-Feb-14	18-Feb-14	15-Apr-14 A	25-Jun-14 A	■			VS - Rock Grade 400 - Zone A2 - (CH793 to 843)	
VS - Rock Grade 400 - Zone A2 - (CH843 to 893)	5	19-Feb-14	24-Feb-14	14-Jun-14 A	30-Jun-14	■			VS - Rock Grade 400 - Zone A2 - (CH843 to 893)	
VS - Rock Grade 400 - Zone A2 - (CH893 to 956)	16	25-Feb-14	14-Mar-14	23-Jun-14 A	26-Jul-14	■			VS - Rock Grade 400 - Zone A2 - (CH893 to	
VS - Levelling Stone - Zone A2 - (CH793 to 843)	4	25-Feb-14	28-Feb-14	02-Jul-14	05-Jul-14			■	VS - Levelling Stone - Zone A2 - (CH793 to 843)	
VS - Levelling Stone - Zone A2 - (CH843 to 893)	4	01-Mar-14	05-Mar-14	07-Jul-14	10-Jul-14			■	VS - Levelling Stone - Zone A2 - (CH843 to 893)	
VS - Levelling Stone - Zone A2 - (CH893 to 956)	9	06-Mar-14	15-Mar-14	11-Jul-14	21-Jul-14			■	VS - Levelling Stone - Zone A2 - (CH893 to 956)	
VS - Seawall Block - Zone A2 - (CH793 to 843)	7	28-Apr-14	07-May-14	23-Jul-14	30-Jul-14			■	VS - Seawall Block - Zone A2 - (CH793 to 8	
VS - Seawall Block - Zone A2 - (CH843 to 893)	7	08-May-14	15-May-14	31-Jul-14	07-Aug-14			■	VS - Seawall Block - Zone A2 - (CH843	
VS - Seawall Block - Zone A2 - (CH893 to 956)	17	16-May-14	05-Jun-14	08-Aug-14	27-Aug-14			■	VS - Seawall Block - Zone A2	
VS - Rockfill Type A - Zone A2 - (CH793 to 843)	3	16-May-14	19-May-14	08-Aug-14	11-Aug-14			■	VS - Rockfill Type A - Zone A2 - (CH7	
VS - Rockfill Type A - Zone A2 - (CH843 to 893)	3	06-Jun-14	09-Jun-14	28-Aug-14	30-Aug-14			■	VS - Rockfill Type A - Zone A	
VS - Rockfill Type A - Zone A2 - (CH893 to 956)	7	10-Jun-14	17-Jun-14	01-Sep-14	08-Sep-14			■	VS - Rockfill Type A - Z	
VS - Geotextile - Zone A2 - (CH793 to 843)	2	10-Jun-14	11-Jun-14	01-Sep-14	02-Sep-14			■	VS - Geotextile - Zone A2	
VS - Geotextile - Zone A2 - (CH843 to 893)	2	12-Jun-14	13-Jun-14	03-Sep-14	04-Sep-14			■	VS - Geotextile - Zone A2	
VS - Geotextile - Zone A2 - (CH893 to 956)	5	14-Jun-14	19-Jun-14	05-Sep-14	11-Sep-14			■	VS - Geotextile - Zone	
VS - Granular Filter - Zone A2 - (CH793 to 843)	4	14-Jun-14	18-Jun-14	05-Sep-14	10-Sep-14			■	VS - Granular Filter - Z	
VS - Granular Filter - Zone A2 - (CH843 to 893)	4	19-Jun-14	23-Jun-14	11-Sep-14	15-Sep-14			■	VS - Granular Filter	
VS - Granular Filter - Zone A2 - (CH893 to 956)	10	24-Jun-14	05-Jul-14	16-Sep-14	26-Sep-14			■	VS - Granular	
VS - Berm Stone - Zone A2 - (CH793 to 843)	3	06-Aug-14	08-Aug-14	10-Sep-14	12-Sep-14			■	VS - Berm Stone - Zc	
VS - Berm Stone - Zone A2 - (CH843 to 893)	3	09-Aug-14	12-Aug-14	16-Sep-14	18-Sep-14			■	VS - Berm Stone -	
VS - Berm Stone - Zone A2 - (CH893 to 956)	7	13-Aug-14	20-Aug-14	27-Sep-14	07-Oct-14			■	VS - Berm	
<b>Sloping Seawall</b>										
SS - Dredging - Zone A2 - (CH793 to 843)	5	25-Mar-14	29-Mar-14	17-Apr-14 A	01-Jul-14 A	■			SS - Dredging - Zone A2 - (CH793 to 843)	
SS - Dredging - Zone A2 - (CH843 to 893)	6	31-Mar-14	07-Apr-14	17-May-14 A	06-Aug-14	■			SS - Dredging - Zone A2 - (CH843 to 8	
SS - Dredging - Zone A2 - (CH893 to 956)	7	08-Apr-14	15-Apr-14	13-Aug-14	20-Aug-14			■	SS - Dredging - Zone A2 - (CH8	
SS - Rock Grade 400 - Zone A2 - (CH793 to 843) to +2.5mPD (4k/d)	6	01-Apr-14	08-Apr-14	10-Jun-14 A	06-Aug-14	■			SS - Rock Grade 400 - Zone A2 - (CH7	
SS - Rock Grade 400 - Zone A2 - (CH843 to 893) to +2.5mPD (4k/d)	6	09-Apr-14	15-Apr-14	07-Aug-14	20-Aug-14			■	SS - Rock Grade 400 - Zone A2	
SS - Rock Grade 400 - Zone A2 - (CH893 to 956) to +2.5mPD (4k/d)	7	16-Apr-14	26-Apr-14	21-Aug-14	04-Sep-14			■	SS - Rock Grade 400 - Z	
SS - Armour Rock Underlayer - Zone A2 - (CH793 to 843)	5	09-Apr-14	14-Apr-14	03-Sep-14	08-Sep-14			■	SS - Armour Rock Unde	
SS - Armour Rock Underlayer - Zone A2 - (CH843 to 893)	5	16-Apr-14	24-Apr-14	10-Sep-14	15-Sep-14			■	SS - Armour Rock U	
SS - Armour Rock Underlayer - Zone A2 - (CH893 to 956)	5	28-Apr-14	03-May-14	16-Sep-14	20-Sep-14			■	SS - Armour Rock	
SS - Armour Rock - Zone A2 - (CH793 to 843)	4	05-May-14	09-May-14	22-Sep-14	25-Sep-14			■	SS - Armour R	
SS - Armour Rock - Zone A2 - (CH843 to 893)	4	10-May-14	14-May-14	26-Sep-14	30-Sep-14			■	SS - Armour	
Sloping - Rockfill Type A - Zone A2 - (CH793 to 843)	1	09-Apr-14	09-Apr-14	07-Aug-14	07-Aug-14			■	Sloping - Rockfill Type A - Zone A2 - (C	
Sloping - Rockfill Type A - Zone A2 - (CH843 to 893)	1	16-Apr-14	16-Apr-14	21-Aug-14	21-Aug-14			■	Sloping - Rockfill Type A - Zone /	
Sloping - Rockfill Type A - Zone A2 - (CH893 to 956)	1	28-Apr-14	28-Apr-14	05-Sep-14	05-Sep-14			■	Sloping - Rockfill Type A -	
Sloping - Geotextile - Zone A2 - (CH793 to 843)	2	10-Apr-14	11-Apr-14	08-Aug-14	09-Aug-14			■	Sloping - Geotextile - Zone A2 - (CH7	
Sloping - Geotextile - Zone A2 - (CH843 to 893)	2	17-Apr-14	22-Apr-14	22-Aug-14	23-Aug-14			■	Sloping - Geotextile - Zone A2 -	
Sloping - Geotextile - Zone A2 - (CH893 to 956)	2	29-Apr-14	30-Apr-14	06-Sep-14	08-Sep-14			■	Sloping - Geotextile - Z	
Sloping - Granular Filter - Zone A2 - (CH793 to 843)	3	12-Apr-14	15-Apr-14	11-Aug-14	13-Aug-14			■	Sloping - Granular Filter - Zone A2 -	
Sloping - Granular Filter - Zone A2 - (CH843 to 893)	3	23-Apr-14	25-Apr-14	25-Aug-14	27-Aug-14			■	Sloping - Granular Filter - Zo	
Sloping - Granular Filter - Zone A2 - (CH893 to 956)	3	02-May-14	05-May-14	10-Sep-14	12-Sep-14			■	Sloping - Granular Fil	
<b>Reclamation</b>										
Reclamation - Geotextile - Zone A2 - (CH793 to 843)	4	14-May-14	17-May-14	14-Aug-14	18-Aug-14			■	Reclamation - Geotextile - Zone A	
Reclamation - Geotextile - Zone A2 - (CH843 to 893)	4	19-May-14	22-May-14	28-Aug-14	01-Sep-14			■	Reclamation - Geotextile -	
Reclamation - Geotextile - Zone A2 - (CH893 to 956)	3	23-May-14	26-May-14	13-Sep-14	16-Sep-14			■	Reclamation - Geot	
Reclamation - Sand Blanket - Zone A2 - (CH793 to 843)	2	19-May-14	20-May-14	19-Aug-14	20-Aug-14			■	Reclamation - Sand Blanket - Zo	
Reclamation - Sand Blanket - Zone A2 - (CH843 to 893)	3	23-May-14	26-May-14	02-Sep-14	04-Sep-14			■	Reclamation - Sand Blank	
Reclamation - Sand Blanket - Zone A2 - (CH893 to 956)	5	27-May-14	31-May-14	17-Sep-14	22-Sep-14			■	Reclamation - Sa	
Reclamation - Band Drain - Zone A2 - (CH793 to 843)	4	22-May-14	26-May-14	21-Aug-14	25-Aug-14			■	Reclamation - Band Drain - Zc	
Reclamation - Band Drain - Zone A2 - (CH843 to 893)	4	27-May-14	30-May-14	05-Sep-14	10-Sep-14			■	Reclamation - Band D	
Reclamation - Band Drain - Zone A2 - (CH893 to 956)	5	03-Jun-14	07-Jun-14	23-Sep-14	27-Sep-14			■	Reclamation -	
Public Fill - Zone A2 - (CH793 to 843) to -2.5mPD	6	04-Jul-14	10-Jul-14	04-Sep-14	11-Sep-14			■	Public Fill - Zone A2 -	
Public Fill - Zone A2 - (CH843 to 893) to -2.5mPD	6	11-Jul-14	17-Jul-14	12-Sep-14	18-Sep-14			■	Public Fill - Zone A	

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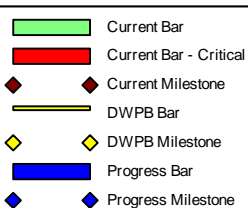
- Current Bar
- Current Bar - Critical
- ◆ Current Milestone
- DWPB Bar
- ◆ DWPB Milestone
- Progress Bar
- ◆ Progress Milestone

TMCLK - Northern Connection Sub-sea Tunnel Section  
 Three-months Rolling Programme  
 As of 30-Jun-2014



Date	Revision	Checked	Approved
12-Feb-14	TMCLKDBJEN/PRG98507 Rev A	WYu	SPe
08-Apr-14	TMCLKDBJEN/PRG98507 Rev B	SPe	WYu

Activity Name	Orig Dur	Planned Start	Planned Finish	Current Start	Current Finish	2014				
						Jun	Jul	Aug	Sep	Oct
Public Fill - Zone A2 - (CH893 to 956) to -2.5mPD	4	18-Jul-14	22-Jul-14	29-Sep-14	04-Oct-14					Public Fill -
<b>Zone F</b>										
<b>CH137 to CH184</b>										
F - Backfilling up to -7.5mPD & T1 Installation - CH137 to CH184	4	16-Jan-14	19-Jan-14	30-Jun-14	03-Jul-14					F - Backfilling up to -7.5mPD & T1 Installation - CH137 to
F - Backfilling up to -4.5mPD - CH137 to CH184	2	20-Jan-14	21-Jan-14	04-Jul-14	05-Jul-14					F - Backfilling up to -4.5mPD - CH137 to CH184
F - Backfilling up to +0.5mPD & T3 Installation - CH137 to CH184	6	22-Jan-14	27-Jan-14	06-Jul-14	11-Jul-14					F - Backfilling up to +0.5mPD & T3 Installation - CH1
F - Backfilling up to +3.0mPD - CH137 to CH184	2	28-Jan-14	29-Jan-14	12-Jul-14	13-Jul-14					F - Backfilling up to +3.0mPD - CH137 to CH184
F - Backfilling up to +6.0mPD - CH137 to CH184	2	30-Jan-14	31-Jan-14	14-Jul-14	15-Jul-14					F - Backfilling up to +6.0mPD - CH137 to CH184
F - Anchor Wall Installation - CH160 to CH184	2	07-Mar-14	08-Mar-14	13-Aug-14	14-Aug-14					F - Anchor Wall Installation - CH160
<b>CH184 to CH231</b>										
F - Marine Sheet Piling (H2) - CH184 to CH231	3	16-Jan-14	18-Jan-14	31-May-14 A	24-Jun-14 A					F - Marine Sheet Piling (H2) - CH184 to CH231
F - Marine Sheet Piling (H1) - CH184 to CH231	3	20-Jan-14	22-Jan-14	25-Apr-14 A	18-Jun-14 A					F - Marine Sheet Piling (H1) - CH184 to CH231
F - Backfilling up to -7.5mPD & T1 Installation - CH184 to CH231	4	23-Jan-14	26-Jan-14	04-Jul-14	07-Jul-14					F - Backfilling up to -7.5mPD & T1 Installation - CH184
F - Backfilling up to -4.5mPD - CH184 to CH231	2	27-Jan-14	28-Jan-14	08-Jul-14	09-Jul-14					F - Backfilling up to -4.5mPD - CH184 to CH231
F - Backfilling up to +0.5mPD & T3 Installation - CH184 to CH231	6	29-Jan-14	03-Feb-14	12-Jul-14	17-Jul-14					F - Backfilling up to +0.5mPD & T3 Installation - C
F - Backfilling up to +3.0mPD - CH184 to CH231	2	04-Feb-14	05-Feb-14	18-Jul-14	19-Jul-14					F - Backfilling up to +3.0mPD - CH184 to CH231
F - Backfilling up to +6.0mPD - CH184 to CH231	2	06-Feb-14	07-Feb-14	20-Jul-14	21-Jul-14					F - Backfilling up to +6.0mPD - CH184 to CH23
F - Anchor wall Installation - CH184 to CH231	4	10-Mar-14	13-Mar-14	15-Aug-14	19-Aug-14					F - Anchor wall Installation - CH18
F - Backfilling up to 0.0mPD & G2 Installation to Anchor Wall- CH184 to	3	14-Mar-14	16-Mar-14	20-Aug-14	22-Aug-14					F - Backfilling up to 0.0mPD & G
F - Backfilling up to +3.0mPD & G1 Installation to Anchor Wall- CH184 to	2	17-Mar-14	18-Mar-14	23-Aug-14	24-Aug-14					F - Backfilling up to +3.0mPD &
F - Backfilling up to +6.0mPD to Anchor Wall - CH184 to CH231	2	19-Mar-14	20-Mar-14	25-Aug-14	26-Aug-14					F - Backfilling up to +6.0mPD
F - Backfilling to +6.0mPD to Existing Seawall - CH184 to CH231	1	21-Mar-14	21-Mar-14	27-Aug-14	27-Aug-14					F - Backfilling to +6.0mPD to
<b>CH231 to CH278</b>										
F - Marine Sheet Piling (H1) - CH231 to CH278	4	23-Jan-14	27-Jan-14	18-Jun-14 A	30-Jun-14					F - Marine Sheet Piling (H1) - CH231 to CH278
F - Marine Sheet Piling (H2) - CH231 to CH278	4	18-Mar-14	21-Mar-14	24-Jun-14 A	15-Aug-14					F - Marine Sheet Piling (H2) - CH2
F - Backfilling up to -7.5mPD & T1 Installation - CH231 to CH278	4	22-Mar-14	25-Mar-14	16-Aug-14	19-Aug-14					F - Backfilling up to -7.5mPD & T
F - Backfilling up to -4.5mPD - CH231 to CH278	2	26-Mar-14	27-Mar-14	20-Aug-14	21-Aug-14					F - Backfilling up to -4.5mPD - C
F - Backfilling up to +0.5mPD & T3 Installation - CH231 to CH278	6	28-Mar-14	02-Apr-14	22-Aug-14	27-Aug-14					F - Backfilling up to +0.5mPD
F - Backfilling up to +3.0mPD - CH231 to CH278	2	03-Apr-14	04-Apr-14	28-Aug-14	29-Aug-14					F - Backfilling up to +3.0mPD
F - Backfilling up to +6.0mPD - CH231 to CH278	2	05-Apr-14	06-Apr-14	30-Aug-14	31-Aug-14					F - Backfilling up to +6.0mP
F - Anchor wall Installation - CH231 to CH278	4	07-Apr-14	10-Apr-14	01-Sep-14	04-Sep-14					F - Anchor wall Installation
F - Backfilling up to 0.0mPD & G2 Installation to Anchor Wall- CH231 to	3	11-Apr-14	13-Apr-14	05-Sep-14	07-Sep-14					F - Backfilling up to 0.0m
F - Backfilling up to +3.0mPD & G1 Installation to Anchor Wall - CH231 to	2	14-Apr-14	15-Apr-14	08-Sep-14	09-Sep-14					F - Backfilling up to +3.
F - Backfilling up to +6.0mPD to Anchor Wall - CH231 to CH278	2	16-Apr-14	17-Apr-14	10-Sep-14	11-Sep-14					F - Backfilling up to +6
F - Backfilling to +6.0mPD to Existing Seawall - CH231 to CH278	1	18-Apr-14	18-Apr-14	12-Sep-14	12-Sep-14					F - Backfilling to +6.0r
<b>CH278 to CH327</b>										
F - Pre-boring for Marine Sheet Pile - CH278 to CH327	6	28-Jan-14	10-Feb-14	02-Jul-14	08-Jul-14					F - Pre-boring for Marine Sheet Pile - CH278 to CH32
F - Marine Sheet Piling (H1) - CH278 to CH327	5	25-Feb-14	01-Mar-14	23-Jul-14	28-Jul-14					F - Marine Sheet Piling (H1) - CH278 to CH
F - Marine Sheet Piling (H2) - CH278 to CH327	5	12-Mar-14	17-Mar-14	07-Aug-14	12-Aug-14					F - Marine Sheet Piling (H2) - CH278
F - Backfilling up to -3.5mPD & T2 Installation - CH278 to CH327	5	18-Mar-14	22-Mar-14	13-Aug-14	17-Aug-14					F - Backfilling up to -3.5mPD & T2
F - Backfilling up to +0.5mPD - CH278 to CH327	4	23-Mar-14	26-Mar-14	18-Aug-14	21-Aug-14					F - Backfilling up to +0.5mPD - C
F - Backfilling up to +3.0mPD & T4 Installation - CH278 to CH327	5	27-Mar-14	31-Mar-14	22-Aug-14	26-Aug-14					F - Backfilling up to +3.0mPD .
F - Backfilling up to +6.0mPD - CH278 to CH327	2	01-Apr-14	02-Apr-14	27-Aug-14	28-Aug-14					F - Backfilling up to +6.0mPD
F - Anchor wall Installation - CH278 to CH327	4	11-Apr-14	15-Apr-14	05-Sep-14	10-Sep-14					F - Anchor wall Installa
F - Backfilling up to 0.0mPD & G2 Installation to Anchor Wall - CH278 to	3	16-Apr-14	18-Apr-14	11-Sep-14	13-Sep-14					F - Backfilling up to 0
F - Backfilling up to +3.0mPD & G1 Installation to Anchor Wall - CH278 to	3	19-Apr-14	21-Apr-14	14-Sep-14	16-Sep-14					F - Backfilling up to
F - Backfilling up to +6.0mPD to Anchor Wall - CH278 to CH327	3	22-Apr-14	24-Apr-14	17-Sep-14	19-Sep-14					F - Backfilling up to
F - Backfilling to +6.0mPD to Existing Seawall - CH278 to CH327	1	25-Apr-14	25-Apr-14	20-Sep-14	20-Sep-14					F - Backfilling to +
<b>CH327 to CH381</b>										
F - Pre-boring for Marine Sheet Pile - CH327 to CH381	6	11-Feb-14	17-Feb-14	09-Jul-14	15-Jul-14					F - Pre-boring for Marine Sheet Pile - CH327 to CH
F - Marine Sheet Piling (H1) - CH327 to CH381	4	03-Mar-14	06-Mar-14	29-Jul-14	01-Aug-14					F - Marine Sheet Piling (H1) - CH327 to C
F - Marine Sheet Piling (H2) - CH327 to CH381	4	07-Mar-14	11-Mar-14	02-Aug-14	06-Aug-14					F - Marine Sheet Piling (H2) - CH327 to
F - Backfilling up to -3.5mPD & T2 Installation - CH327 to CH381	4	12-Mar-14	15-Mar-14	07-Aug-14	10-Aug-14					F - Backfilling up to -3.5mPD & T2 Ins
F - Backfilling up to +0.5mPD - CH327 to CH381	3	16-Mar-14	18-Mar-14	11-Aug-14	13-Aug-14					F - Backfilling up to +0.5mPD - CH3
F - Backfilling up to +3.0mPD & T4 Installation - CH327 to CH381	5	19-Mar-14	23-Mar-14	14-Aug-14	18-Aug-14					F - Backfilling up to +3.0mPD & T
F - Backfilling up to +6.0mPD - CH327 to CH381	3	24-Mar-14	26-Mar-14	19-Aug-14	21-Aug-14					F - Backfilling up to +6.0mPD - C
F - Anchor wall Installation - CH327 to CH381	3	16-Apr-14	22-Apr-14	11-Sep-14	13-Sep-14					F - Anchor wall Instal
F - Backfilling up to 0.0mPD & G2 Installation to Anchor Wall - CH327 to	3	23-Apr-14	25-Apr-14	14-Sep-14	16-Sep-14					F - Backfilling up to
F - Backfilling up to +3.0mPD & G1 Installation to Anchor Wall - CH327 to	3	26-Apr-14	28-Apr-14	17-Sep-14	19-Sep-14					F - Backfilling up to
F - Backfilling up to +6.0mPD to Anchor Wall - CH327 to CH381	2	29-Apr-14	30-Apr-14	20-Sep-14	21-Sep-14					F - Backfilling up
F - Backfilling to +6.0mPD to Existing Seawall - CH327 to CH381	1	01-May-14	01-May-14	22-Sep-14	22-Sep-14					F - Backfilling to
<b>Box Culvert Extension</b>										
<b>Construction</b>										
<b>CH000 to CH137</b>										
Predrilling - CH27 to CH137	24	02-May-14	30-May-14	30-Apr-14 A	21-Jul-14					Predrilling - CH27 to CH137



Date	Revision	Checked	Approved
12-Feb-14	TMCLKDBJEN/PRG98507 Rev A	WYu	SPe
08-Apr-14	TMCLKDBJEN/PRG98507 Rev B	SPe	WYu

Activity Name	Orig Dur	Planned Start	Planned Finish	Current Start	Current Finish	2014				
						Jun	Jul	Aug	Sep	Oct
Bored Pile Construction - A43 to A62 (4 Rigs) & Land Sheet Piling	96	31-May-14	23-Sep-14	22-Jul-14	13-Nov-14					
<b>CH137 to CH184</b>										
Predrilling - CH137 to CH184	24	07-Feb-14	06-Mar-14	16-Jul-14	12-Aug-14					
Bored Pile Construction - A42 to A35	160	07-Mar-14	19-Sep-14	13-Aug-14	28-Feb-15					
<b>CH184 to CH231</b>										
Predrilling - CH184 to CH231	24	22-Mar-14	23-Apr-14	28-Aug-14	25-Sep-14					
Bored Pile Construction - A34 to A27	156	22-Mar-14	30-Sep-14	28-Aug-14	11-Mar-15					
<b>CH231 to CH278</b>										
Predrilling - CH231 to CH278	24	22-Apr-14	21-May-14	13-Sep-14	13-Oct-14					
Bored Pile Construction - A26 to A19	143	22-Apr-14	13-Oct-14	13-Sep-14	11-Mar-15					
<b>CH278 to CH327</b>										
Predrilling - CH278 to CH327	24	26-Apr-14	26-May-14	22-Sep-14	21-Oct-14					
<b>CH327 to CH381</b>										
Predrilling - CH327 to CH381	24	02-May-14	30-May-14	23-Sep-14	22-Oct-14					

**North Shafts Construction & Tunnel Structure**

**Construction**

**North Launching Shaft ELS Foundation & Capping Beam (Cell 1 to 3)**

E - Setup for Launching Shaft ELS	18	28-Mar-14	22-Apr-14	12-May-14 A	07-Jun-14 A					
E - Cell 1-3 - Diaphragm Wall & Toe Grouting - Shaft ELS	54	02-May-14	07-Jul-14	07-Jun-14 A	05-Sep-14					
E - Cell 1-3 - Diaphragm Wall & Toe Grouting - Perm Barette	26	08-Jul-14	06-Aug-14	06-Sep-14	17-Sep-14					
E - Cell 1-3 - Capping beam Installation	18	08-Jul-14	28-Jul-14	06-Sep-14	27-Sep-14					
E - Cell 1-3 - Instrumentation & Pump well Installation	6	31-Jul-14	06-Aug-14	18-Sep-14	24-Sep-14					
E - Pumping Test for TBM Lanuching Shaft ELS - Cell 1-3	5	07-Aug-14	11-Aug-14	25-Sep-14	29-Sep-14					

**Portion N6 - CLP Substation**

**Construction**

CLP Substation - E&M, BS Installation	0			05-May-14 A	02-Jul-14					
Substation - ABWF works	0			26-Apr-14 A	30-May-14 A					
Substation - Metal works & Remaining civil works	0			04-Jun-14 A	02-Jul-14					
Substation - E&M works	0			05-May-14 A	02-Jul-14					
Pre-Electrical Access Inspection	0		31-May-14		03-Jun-14 A					
Electrical Access	0		30-Jun-14		03-Jul-14					
1st Batch - CLP Installation & Commissioning	108	02-Jul-14	07-Nov-14	04-Jul-14	10-Nov-14					
11kV Equipment / Switch Room installation by JV	48	13-Aug-14	10-Oct-14	22-Aug-14	21-Oct-14					

**North Surface works for TBM Tunnelling**

**Construction**

<b>Zone E</b>										
Zone E - Vibro-compaction (CH150-205)	0			30-Jun-14	13-Jul-14					
Zone E - Unreinforced Separation D-wall	0			14-Jul-14	29-Jul-14					
Zone E - Granular Material for B/Cement Base	0			30-Jul-14	08-Aug-14					
Zone E - TBM Crown Ground Treatment	0			14-Jul-14	24-Sep-14					
Zone E - Jet Grouting for TBM Break-in Plug (Section 1)	0			21-Jul-14	02-Aug-14					
Zone E - Jet Grouting for TBM Break-in Plug (Section 2)	0			04-Aug-14	06-Sep-14					
Zone E - Jet Grouting for TBM Break-in Plug (Section 3 - interface with N)	0			08-Sep-14	15-Oct-14					
Zone E - CSM for TBM Break-in Plug (Section 1)	0			09-Aug-14	20-Sep-14					
Zone E - CSM for TBM Break-in Plug (Section 2)	0			22-Sep-14	16-Dec-14					
<b>Zone D1</b>										
Zone D1 - Ground Treatment for CP55	0			11-Aug-14	03-Sep-14					
Zone D1 - Vibro-compaction (CH205 to 255)	60	08-May-14	06-Jul-14	01-Jul-14	30-Jul-14					
Zone D1 - Vibro-compaction (CH255 to 305)	60	13-May-14	11-Jul-14	05-Jul-14	03-Aug-14					
Zone D1 - Vibro-compaction (CH305 to 355)	60	17-May-14	15-Jul-14	11-Jul-14	09-Aug-14					
Zone D1 - Compacted Sand Excavation down to +2.0mPD	6	07-Jul-14	12-Jul-14	04-Sep-14	11-Sep-14					
Zone D1 - Unreinforced Separation D-wall (1st 55m)	16	14-Jul-14	31-Jul-14	12-Sep-14	30-Sep-14					
Zone D1 - Ground Treatment for CP54	20	14-Jul-14	05-Aug-14	12-Sep-14	07-Oct-14					
<b>Zone D2</b>										
Zone D2 - Vibro-compaction (CH355 to 405)	60	25-May-14	23-Jul-14	30-Jul-14	28-Aug-14					
Zone D2 - Vibro-compaction (CH405 to 443)	60	07-Jun-14	05-Aug-14	10-Aug-14	08-Sep-14					
<b>Zone C1</b>										
Zone C1 - Vibro-compaction (CH355 to 405)	60	22-Jun-14	20-Aug-14	24-Aug-14	22-Sep-14					
Zone C1 - Vibro-compaction (CH405 to 443)	60	28-Jun-14	26-Aug-14	30-Aug-14	28-Sep-14					
Zone C1 - Ground Treatment for CP52	26	27-Aug-14	26-Sep-14	29-Sep-14	30-Oct-14					
<b>Zone C2</b>										
Zone C2 - Drilling for Rock Fissure Grouting for CP51	21	03-Jul-14	26-Jul-14	03-Sep-14	27-Sep-14					
Zone C2 - Rock Fissure Grouting for CP51	44	14-Jul-14	02-Sep-14	15-Sep-14	06-Nov-14					
<b>Zone B</b>										
Zone B - Unreinforced Separation D-wall	13	25-Jul-14	08-Aug-14	26-Sep-14	13-Oct-14					

- Current Bar
- Current Bar - Critical
- ◆ Current Milestone
- DWPB Bar
- ◆ DWPB Milestone
- Progress Bar
- ◆ Progress Milestone



Date	Revision	Checked	Approved
12-Feb-14	TMCLKDBJGEN/PRG98507 Rev A	WYu	SPo
08-Apr-14	TMCLKDBJGEN/PRG98507 Rev B	SPo	WYu

Appendix C

Environmental Mitigation  
and Enhancement Measure  
Implementation Schedules



**Contract No. HY/2012/08**  
**Tuen Mun – Chek Lap Kok Link**  
**Northern Connection Sub-sea Tunnel Section**  
**Environmental Mitigation and Enhancement Measure Implementation Schedule**

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status *
						D	C	O	
<b>Air Quality</b>									
4.8.1	3.8	An effective watering programme of twice daily watering with complete coverage, is estimated to reduce by 50%. This is recommended for all areas in order to reduce dust levels to a minimum;	All areas / throughout construction period	Contractor	TMEIA Avoid smoke impacts and disturbance		Y		✓
4.8.1	3.8	Watering of the construction sites in Lantau for 8 times/day and in Tuen Mun for 12 times/day to reduce dust emissions by 87.5% and 91.7% respectively and shall be undertaken.	All areas / throughout construction period	Contractor	TMEIA Avoid dust generation		Y		✓
4.8.1	3.8	The Contractor shall, to the satisfaction of the Engineer, install effective dust suppression measures and take such other measures as may be necessary to ensure that at the Site boundary and any nearby sensitive receiver, dust levels are kept to acceptable levels.	All areas / throughout construction period	Contractor	TMEIA Avoid dust generation		Y		✓
4.8.1	3.8	The Contractor shall not burn debris or other materials on the works areas.	All areas / throughout construction period	Contractor	TMEIA Avoid dust generation		Y		✓
4.8.1	3.8	In hot, dry or windy weather, the watering programme shall maintain all exposed road surfaces and dust sources wet.	All unpaved haul roads / throughout construction period in hot, dry or windy weather	Contractor	TMEIA Avoid smoke impacts and disturbance		Y		✓
4.8.1	3.8	Where breaking of oversize rock/concrete is required, watering shall be implemented to control dust. Water spray shall be used during the handling of fill material at the site and at active cuts, excavation and fill sites where dust is likely to be created.	All areas / throughout construction period	Contractor	TMEIA Avoid dust generation		Y		<>
4.8.1	3.8	Open dropping heights for excavated materials shall be controlled to a maximum height of 2m to minimise the fugitive dust arising from unloading.	All areas / throughout construction period	Contractor	TMEIA Avoid dust generation		Y		✓
4.8.1	3.8	During transportation by truck, materials shall not be loaded to a level higher than the side and tail boards, and shall be dampened or covered before transport.	All areas / throughout construction period	Contractor	TMEIA Avoid dust generation		Y		✓
4.8.1	3.8	Materials having the potential to create dust shall not be loaded to a level higher than the side and tail boards, and shall be covered by a clean tarpaulin. The tarpaulin shall be properly secured and shall extend at least 300mm over the edges of the side and tail boards.	All areas / throughout construction period	Contractor	TMEIA Avoid dust generation		Y		✓

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						D	C	O	
4.8.1	3.8	No earth, mud, debris, dust and the like shall be deposited on public roads. Wheel washing facility shall be usable prior to any earthworks excavation activity on the site.	All site exits / throughout construction period	Contractor	TMEIA Avoid dust		Y		✓
4.8.1	3.8	Areas of exposed soil shall be minimised to areas in which works have been completed shall be restored as soon as is practicable.	All exposed surfaces / throughout construction period	Contractor	TMEIA Avoid dust generation		Y		✓
4.8.1	3.8	All stockpiles of aggregate or spoil shall be enclosed or covered and water applied in dry or windy condition.	All areas / throughout construction period	Contractor	TMEIA Avoid dust generation		Y		<>
4.11	Section 3	EM&A in the form of 1 hour and 24 hour dust monitoring and site audit.	All representative existing ASRs / throughout construction period	Contractor	EM&A Manual		Y		✓
<b>WATER QUALITY</b>									
<i>Marine Works (Sequence A)</i>									
6.1	Annex A	Construction of seawalls to be advanced by at least 200m before the main reclamation dredging and filling can commence. The protection by advanced seawall is a dynamic process depending on the progress of the construction activities and the stage when such protection could be realised is illustrated in Figure 6.2a and detailed in Appendix D6a. The part of the works where such measures can be undertaken for the majority of the time includes the following locations:  - TM-CLKL northern reclamation;	All areas/ prior to dredging and backfilling works	Contractor	TM-EIAO		Y		✓
6.1	-	a maximum of 50% public fill to be used for all seawall filling below +2.5mPD for TM-CLKL southern and northern landfalls.	TM-CLKL seawall filling	Contractor	TM-EIAO		Y		✓

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EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status *
						D	C	O	
6.1	-	a maximum of 30% public fill to be used for reclamation filling below +2.5mPD for TM-CLKL southern landfall	TM-CLKL southern landfall reclamation filling	Contractor	TM-EIAO		Y		N/A
6.1	-	a maximum of 100% public fill to be used for reclamation filling below +2.5mPD for TM-CLKL northern landfall	TM-CLKL northern landfall reclamation filling	Contractor	TM-EIAO		Y		✓
6.1	-	Use of cage type silt curtains round allgrab dredgers during the HKBCF, HKLR and TM-CLKL southern reclamation works.	All areas dredging works	Contractor	TM-EIAO		Y		✓
	Figure 1.1 of Annex C	A layer of floating type silt curtain will be applied when dredging and reclamation works are being undertaken at Portion N-a as shown in Figure 1.1 of Annex C of the EM&A Manual.	All areas/ through out marine works	Contractor	TM-EIAO		Y		✓
6.1	-	Trailer suction hopper dredgers shall not allow mud to overflow.	All areas/ throughout construction period	Contractor	Marine Fill Committee Guidelines. DASO permit conditions.		Y		✓
6.1	-	The use of Lean Material Overboard (LMOB) systems shall be prohibited.	All areas/ throughout construction period	Contractor	Marine Fill Committee Guidelines. DASO permit conditions.		Y		✓

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*Contract No. HY/2012/08  
Tuen Mun – Chek Lap Kok Link  
Northern Connection Sub-sea Tunnel Section  
Environmental Mitigation and Enhancement Measure Implementation Schedule*

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status *
						D	C	O	
6.1  Figure 6.2b Appendix D6b	Annex A	For other parts of the reclamation works construction of seawalls to be advanced by at least 200m before the main reclamation dredging and 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 and the stage when such protection could be realised is illustrated in Figure 6.2b and detailed in Appendices D6b. The part of the works where such measures can be undertaken for the majority of the time includes the following locations:  - TM-CLKL northern reclamation;  - Reclamation filling for Portion D of HKBCF; Reclamation filling for FSD berth of HKBCF; and  - Reclamation dredging and filling for Portion 1 of HKLR;	TM-CLKL northern landfall, Portion D of HKBCF and HKLR	Contractor	TM-EIAO		Y		✓
6.1	-	The filling material for the other parts of the works are the same as Sequence A;	All other areas/backfilling works	Contractor	TM-EIAO		Y		N/A
6.1	5.7	Cage type silt curtain (with steel enclosure) shall be used for grab dredgers working in the site of HKBCF and TM- CLKL southern reclamation. Cage type silt curtains will be applied round all grab dredgers at other works area.	HKBCF, HKLR and TM-CLKL grab dredging	Contractor	TM-EIAO		Y		✓
6.1	Annex A	A layer of floating type silt curtain will be applied around all works as defined in Appendix D6b.	All areas/ through out marine works	Contractor	TM-EIAO		Y		✓
6.1	-	TM-CLKL northern landfall: - Reclamation filling shall not proceed until at least 200m section of leading seawall at both the east and west sides of the reclamation are formed above +2.5 mPD, except for 100m gaps for marine access;	All areas/ through out marine works	Contractor	TM-EIAO		Y		✓

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**Northern Connection Sub-sea Tunnel Section**  
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						D	C	O	
<i>General Marine Works</i>									
6.1	-	Use of TBM for the construction of the submarine tunnel.	Tunnel works / Construction phase	Contractor	TM-EIAO		Y		N/A
6.1	-	Export dredged spoils from NWWCZ.	All areas as much as possible / dredging activities	Contractor	DASO Permit conditions		Y		✓
6.1	-	Where public fill is proposed for filling below +2.5mPD, the fine content in the public fill will be controlled to 25%	All areas/ backfilling works	Contractor	TM-EIAO		Y		N/A
6.1	-	Where sand fill is proposed for filling below +2.5mPD, the fine content in the sand fill will be controlled to 5%.	All areas/ backfilling works	Contractor	TM-EIAO		Y		N/A
6.1	-	Mechanical grabs shall be designed and maintained to avoid spillage and should seal tightly while being lifted.	All areas/ throughout construction period	Contractor	Marine Fill Committee Guidelines. DASO permit conditions.		Y		✓
6.1	-	Barges and hopper dredgers shall have tight fitting seals to their bottom openings to prevent leakage of material.	All areas/ throughout construction period	Contractor	Marine Fill Committee Guidelines. DASO permit conditions.		Y		✓
6.1	-	Any pipe leakages shall be repaired quickly. Plant should not be operated with leaking pipes.	All areas/ throughout construction period	Contractor	Marine Fill Committee Guidelines. DASO permit conditions.		Y		✓
6.1	-	Loading of barges and hoppers shall be controlled to prevent splashing of dredged material to the surrounding water. Barges or hoppers shall not be filled to a level which will cause overflow of materials or pollution of water during loading or transportation.	All areas/ throughout construction period	Contractor	Marine Fill Committee Guidelines. DASO permit conditions.		Y		✓

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Northern Connection Sub-sea Tunnel Section  
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						D	C	O	
6.1	-	Excess material shall be cleaned from the decks and exposed fittings of barges and hopper dredgers before the vessel is moved.	All areas/ throughout construction period	Contractor	Marine Fill Committee Guidelines. DASO permit conditions.		Y		✓
6.1	-	Adequate freeboard shall be maintained on barges to reduce the likelihood of decks being washed by wave action;	All areas/ throughout construction period	Contractor	Marine Fill Committee Guidelines. DASO permit conditions.		Y		N/A
6.1	-	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.	All areas/ throughout construction period	Contractor	Marine Fill Committee Guidelines. DASO permit conditions.		Y		N/A
6.1	-	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.	All areas/ throughout construction period	Contractor	Marine Fill Committee Guidelines. DASO permit conditions.		Y		<>
6.1	5.2	Silt curtain shall have proved effectiveness from the producer and shall be fully maintained throughout the works by the contractor.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		<>
6.1	-	The daily maximum production rates shall not exceed those assumed in the water quality assessment.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓
6.1	-	The dredging and filling works shall be scheduled to spread the works evenly over a working day.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓

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**Environmental Mitigation and Enhancement Measure Implementation Schedule**

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status *
						D	C	O	
<i>Land Works</i>									
6.1	-	Wastewater from temporary site facilities should be controlled to prevent direct discharge to surface or marine waters.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓
6.1	-	Sewage effluent and discharges from on- site kitchen facilities shall be directed to Government sewer in accordance with the requirements of the WPCO or collected for disposal offsite. The use of soakaways shall be avoided.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓
6.1	-	Storm drainage shall be directed to storm drains via adequately designed sand/silt removal facilities such as sand traps, silt traps and sediment basins. Channels, earth bunds or sand bag barriers should be provided on site to properly direct stormwater to such silt removal facilities. Catchpits and perimeter channels should be constructed in advance of site formation works and earthworks.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓
6.1	-	Silt removal facilities, channels and manholes shall be maintained and any deposited silt and grit shall be removed regularly, including specifically at the onset of and after each rainstorm.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓
6.1	-	Temporary access roads should be surfaced with crushed stone or gravel.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓
6.1	-	Rainwater pumped out from trenches or foundation excavations should be discharged into storm drains via silt removal facilities.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓
6.1	-	Measures should be taken to prevent the washout of construction materials, soil, silt or debris into any drainage system.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		<>
6.1	-	Open stockpiles of construction materials (e.g. aggregates and sand) on site should be covered with tarpaulin or similar fabric during rainstorms.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓
6.1	5.8	Manholes (including any newly constructed ones) should always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris from getting into the drainage system, and to prevent storm run-off from getting into foul sewers.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓
6.1	-	Discharges of surface run-off into foul sewers must always be prevented in order not to unduly overload the foul sewerage system.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓

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						D	C	O	
6.1	-	All vehicles and plant should be cleaned before they leave the construction site to ensure that no earth, mud or debris is deposited by them on roads. A wheel washing bay should be provided at every site exit.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓
6.1	-	Wheel wash overflow shall be directed to silt removal facilities before being discharged to the storm drain.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓
6.1	-	Section of construction road between the wheel washing bay and the public road should be surfaced with crushed stone or coarse gravel.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓
6.1	-	Wastewater generated from concreting, plastering, internal decoration, cleaning work and other similar activities, shall be screened to remove large objects.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓
6.1	-	Vehicle and plant servicing areas, vehicle wash bays and lubrication facilities shall be located under roofed areas. The drainage in these covered areas shall be connected to foul sewers via a petrol interceptor in accordance with the requirements of the WPCO or collected for off site disposal.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		N/A
6.1	-	The Contractor shall prepare an oil / chemical cleanup plan and ensure that leakages or spillages are contained and cleaned up immediately.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓
6.1	-	Waste oil should be collected and stored for recycling or disposal, in accordance with the Waste Disposal Ordinance.	All areas/ throughout construction period	Contractor	TM-EIAO Waste Disposal Ordinance		Y		✓
6.1	-	All fuel tanks and chemical storage areas should be provided with locks and be sited on sealed areas. The storage areas should be surrounded by bunds with a capacity equal to 110% of the storage capacity of the largest tank.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓
6.1	-	Surface run-off from bunded areas should pass through oil/grease traps prior to discharge to the stormwater system.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓
6.1	-	Roadside gullies to trap silt and grit shall be provided prior to discharging the stormwater into the marine environment. The sumps will be maintained and cleaned at regular intervals.	Roadside/ design and operation	Design Consultant/ Contractor	TM-EIAO	Y		Y	✓

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**Northern Connection Sub-sea Tunnel Section**  
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EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status *
						D	C	O	
6.1	Section 5	All construction works shall be subject to routine audit to ensure implementation of all EIA recommendations and good working practice.	All areas/ throughout construction period	Contractor	EM&A Manual		Y		✓
<i>Water Quality Monitoring</i>									
6.1	Section 5	Water quality monitoring shall be undertaken for suspended solids, turbidity, and dissolved oxygen. Nutrients and metal parameters shall also be measured for Mf sediment operations (only HKBCF and HKLR required handling of Mf sediment) during baseline, backfilling and post construction period.  One year operation phase water quality monitoring at designated stations.	Designated monitoring stations as defined in EM&A Manual, Section 5/ Before, through-out marine construction period, post construction and monthly operational phase water quality monitoring for a year.	Contractor	EM&A Manual		Y	Y	✓
<b>ECOLOGY</b>									
8.14	6.3	Specification for and implement pre, during and post construction dolphin abundance monitoring.	All Areas/Detailed Design/ during construction works/post construction	Design Consultant/ Contractor	TMEIA	Y	Y	Y	✓
8.14	6.3,6.5	Specification and implementation of 250m dolphin exclusion zone.	All dredging and reclamation areas/Detailed Design/ during all reclamation and dredging works	Design Consultant/ Contractor	TMEIA	Y	Y		✓
8.15	6.3, 6.5	Specification and deployment of an artificial reef of an area of 3,600m <sup>2</sup> in an area where fishing activities are prohibited.	Area of prohibited fishing activities/Detailed Design/towards end of construction period	TM-CLKL/ HKBCF Design Consultant/TM-CLKL/ HKBCF Contractor	TMEIA	Y		Y	N/A. To be implemented by AFCD.
8.14	6.3, 6.5	Specification and implementation of marine vessel control specifications	All areas/Detailed Design/ during construction works	Design Consultant/ Contractor	TMEIA	Y	Y		✓
8.14	6.3, 6.5	Design and implementation of acoustic decoupling methods for dredging and reclamation works	All areas/ Detailed Design/ during dredging and reclamation works	Design Consultant/ Contractor	TMEIA	Y	Y		✓
8.15	6.3, 6.4	Pre-construction phase survey and coral translocation	Detailed Design/Prior to construction	Design Consultant/ Contractor	TMEIA	Y	Y		✓
8.15	6.5	Audit coral translocation success	Post translocation	Contractor	TMEIA		Y		✓

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EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status *
						D	C	O	
7.13	6.5	The loss of habitat shall be supplemented by enhancement planting in accordance with the landscape mitigation schedule.	All areas / As soon as accessible	Contractor	TMEIA		Y		N/A
7.13	6.5	Spoil heaps shall be covered at all times.	All areas / Throughout construction period	Contractor	TMEIA		Y		✓
7.13	6.5	Avoid damage and disturbance to the remaining and surrounding natural habitat	All areas / Throughout construction period	Contractor	TMEIA		Y		✓
7.13	6.5	Placement of equipment in designated areas within the existing disturbed land	All areas / Throughout construction period	Contractor	TMEIA		Y		✓
7.13	6.5	Disturbed areas to be reinstated immediately after completion of the works.	All areas / Throughout construction period	Contractor	TMEIA		Y		✓
7.13	6.5	Construction activities should be restricted to the proposed works boundary.	All areas / Throughout construction period	Contractor	TMEIA		Y		✓
<b>LANDSCAPE AND VISUAL</b>									
10.9	7.6	The colour and shape of the toll control buildings, ventilation building and administration building shall adopt a design which could blend it into the vicinity elements, and the details will be developed in detailed design stage (DM2)	All areas/detailed design	Design Consultant	TMEIA	Y			N/A
10.9	7.6	Aesthetic design of the viaduct, retaining wall and other structures will be developed under ACABAS submission (DM5)	All areas/detailed design	Design Consultant	TMEIA	Y			N/A
10.9	7.6	Screening of construction works by hoardings around works area in visually unobtrusive colours, to screen works (CM5)	All areas/detailed design/ during construction/post construction	Design Consultant/ Contractor	TMEIA	Y	Y		✓
10.9	7.6	Control night-time lighting and glare by hooding all lights (CM6)	All areas/detailed design/ during construction	Design Consultant/ Contractor	TMEIA	Y	Y		N/A
10.9	7.6	Ensure no run-off into water body adjacent to the Project Area (CM7)	All areas/detailed design/ during construction	Design Consultant/ Contractor	TMEIA	Y	Y		✓
10.9	7.6	Avoidance of excessive height and bulk of buildings and structures (CM8)	All areas/detailed design/ during construction	Design Consultant/ Contractor	TMEIA	Y	Y		✓
10.9	7.6	Aesthetically pleasing design (visually unobtrusive and non-reflective) as regard to the form, material and finishes shall be incorporated to all buildings, engineering structures and associated infrastructure facilities (OM5)	All areas/detailed design/ during construction / during operation	Design Consultant/ Contractor	TMEIA	Y	Y	Y	N/A

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Northern Connection Sub-sea Tunnel Section  
Environmental Mitigation and Enhancement Measure Implementation Schedule*

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status *
						D	C	O	
10.9	7.6	Avoidance of excessive height and bulk of buildings and structures (OM6)	All areas/detailed design/ during construction / during operation	Design Consultant/ Contractor	TMEIA	Y	Y	Y	N/A
<b>WASTE</b>									
12.6		The Contractor shall identify a coordinator for the management of waste.	Contract mobilisation	Contractor	TMEIA		Y		✓
12.6		The Contractor shall prepare and implement a Waste Management Plan which specifies procedures such as a ticketing system, to facilitate tracking of loads and to ensure that illegal disposal of wastes does not occur, and protocols for the maintenance of records of the quantities of wastes generated, recycled and disposed. A recording system for the amount of waste generated, recycled and disposed (locations) should be established.	Contract mobilisation	Contractor	TMEIA, Works Branch Technical Circular No. 5/99 for the Trip-ticket System for Disposal of Construction and Demolition Material		Y		✓

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**Tuen Mun – Chek Lap Kok Link**  
**Northern Connection Sub-sea Tunnel Section**  
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EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status *
						D	C	O	
12.6		The Contractor shall apply for and obtain the appropriate licenses for the disposal of public fill, chemical waste and effluent discharges.	Contract mobilisation	Contractor	TMEIA, Land (Miscellaneous Provisions) Ordinance (Cap 28); Waste Disposal Ordinance (Cap 354); Dumping at Sea Ordinance (Cap 466); Water Pollution Control Ordinance.		Y		✓
12.6	8.1	Training shall be provided to workers about the concepts of site cleanliness and appropriate waste management procedures including waste reduction, reuse and recycling.	Contract Mobilisation	Contractor	TMEIA		Y		✓
12.6	8.1	The extent of cutting operation should be optimised where possible. Earth retaining structures and bored pile walls should be proposed to minimise the extent of cutting.	All areas / throughout construction period	Contractor	TMEIA		Y		✓
12.6	8.1	The surplus surcharge should be transferred to a fill bank	Reclamation areas / after surcharge works	Contractor	TMEIA		Y		N/A
12.6	8.1	Rock armour from the existing seawall should be reused on the new sloping seawall as far as possible	All areas / throughout construction period	Contractor	TMEIA		Y		✓
12.6	8.1	The site and surroundings shall be kept tidy and litter free.	All areas / throughout construction period	Contractor	TMEIA		Y		✓
12.6	8.1	No waste shall be burnt on site.	All areas / throughout construction period	Contractor	TMEIA		Y		✓
12.6	8.1	Provisions to be made in contract documents to allow and promote the use of recycled aggregates where appropriate.	Detailed Design	Design Consultant	TMEIA	Y			✓
12.6	8.1	The Contractor shall be prohibited from disposing of C&D materials at any sensitive locations. The Contractor should propose the final disposal sites in the EMP and WMP for approval before implementation.	All areas / throughout construction period	Contractor	TMEIA		Y		✓
12.6	8.1	Stockpiled material shall be covered by tarpaulin and /or watered as appropriate to prevent windblown dust/ surface run off.	All areas / throughout construction period	Contractor	TMEIA		Y		✓

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**Northern Connection Sub-sea Tunnel Section**  
**Environmental Mitigation and Enhancement Measure Implementation Schedule**

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status *
						D	C	O	
12.6	8.1	Excavated material in trucks shall be covered by tarpaulins to reduce the potential for spillage and dust generation.	All areas / throughout construction period	Contractor	TMEIA		Y		✓
12.6	8.1	Wheel washing facilities shall be used by all trucks leaving the site to prevent transfer of mud onto public roads.	All areas / throughout construction period	Contractor	TMEIA		Y		✓
12.6	8.1	Dredged marine mud shall be disposed of in a gazetted marine disposal ground under the requirements of the Dumping at Seas Ordinance.	Reclamation areas / throughout dredging works	Contractor	TMEIA		Y		✓
12.6	8.1	Standard formwork or pre-fabrication should be used as far as practicable so as to minimise the C&D materials arising. The use of more durable formwork/plastic facing for construction works should be considered. The use of wooden hoardings should be avoided and metal hoarding should be used to facilitate recycling. Purchasing of construction materials should avoid over-ordering and wastage.	All areas / throughout construction period	Contractor	TMEIA		Y		✓
12.6	8.1	The Contractor should recycle as many C&D materials (this is a waste section) as possible on-site. The public fill and C&D waste should be segregated and stored in separate containers or skips to facilitate the reuse or recycling of materials and proper disposal. Where practicable, the concrete and masonry should be crushed and used as fill materials. Steel reinforcement bar should be collected for use by scrap steel mills. Different areas of the sites should be considered for segregation and storage activities.	All areas / throughout construction period	Contractor	TMEIA		Y		✓
12.6	8.1	All falsework will be steel instead of wood.	All areas / throughout construction period	Contractor	TMEIA		Y		✓
12.6	8.1	Chemical waste producers should register with the EPD. Chemical waste should be handled in accordance with the Code of Practice on the Packaging, Handling and Storage of Chemical Wastes as follows:  <i>f</i> suitable for the substance to be held, resistant to corrosion, maintained in good conditions and securely closed; <i>f</i> Having a capacity of <450L unless the specifications have been approved by the EPD; and	All areas / throughout construction period	Contractor	TMEIA		Y		<>

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**Tuen Mun – Chek Lap Kok Link**  
**Northern Connection Sub-sea Tunnel Section**  
**Environmental Mitigation and Enhancement Measure Implementation Schedule**

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status *
						D	C	O	
		<ul style="list-style-type: none"> <li>f Displaying a label in English and Chinese according to the instructions prescribed in Schedule 2 of the Regulations.</li> <li>f Clearly labelled and used solely for the storage of chemical wastes;</li> <li>f Enclosed with at least 3 sides;</li> <li>f Impermeable floor and bund with capacity to accommodate 110% of the volume of the largest container or 20% by volume of the chemical waste stored in the area, whichever is greatest;</li> <li>f Adequate ventilation;</li> <li>f Sufficiently covered to prevent rainfall entering (water collected within the bund must be tested and disposed of as chemical waste, if necessary); and</li> <li>f Incompatible materials are adequately separated.</li> </ul>							
12.6	8.1	Waste oils, chemicals or solvents shall not be disposed of to drain,	All areas / throughout construction period	Contractor	TMEIA		Y		✓
12.6	8.1	Adequate numbers of portable toilets should be provided for on-site workers. Portable toilets should be maintained in reasonable states, which will not deter the workers from utilising them.	All areas / throughout construction period	Contractor	TMEIA		Y		✓
12.6	8.1	Night soil should be regularly collected by licensed collectors.	All areas / throughout construction period	Contractor	TMEIA		Y		N/A
12.6	8.1	General refuse arising on-site should be stored in enclosed bins or compaction units separately from C&D and chemical wastes. Sufficient dustbins shall be provided for storage of waste as required under the Public Cleansing and Prevention of Nuisances By-laws. In addition, general refuse shall be cleared daily and shall be disposed of to the nearest licensed landfill or refuse transfer station. Burning of refuse on construction sites is prohibited.	All areas / throughout construction period	Contractor	TMEIA		Y		<>
12.6	8.1	All waste containers shall be in a secure area on hardstanding;	All areas / throughout construction period	Contractor	TMEIA		Y		✓

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**Tuen Mun – Chek Lap Kok Link**  
**Northern Connection Sub-sea Tunnel Section**  
**Environmental Mitigation and Enhancement Measure Implementation Schedule**

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status *
						D	C	O	
12.6	8.1	Training shall be provided to workers about the concepts of site cleanliness and appropriate waste management procedure, including waste reduction, reuse and recycling.	All areas / throughout construction period	Contractor	TMEIA		Y		✓
12.6	8.1	Office wastes can be reduced by recycling of paper if such volume is sufficiently large to warrant collection. Participation in a local collection scheme by the Contractor should be advocated. Waste separation facilities for paper, aluminium cans, plastic bottles, etc should be provided on-site.	Site Offices/ throughout construction period	Contractor	TMEIA		Y		✓
12.6	Section 8	EM&A of waste handling, storage, transportation, disposal procedures and documentation through the site audit programme shall be undertaken.	All areas / throughout construction period	Contractor	EM&A Manual		Y		✓
<b>CULTURAL HERITAGE</b>									
11.8	Section 9	EM&A in the form of audit of the mitigation measures	All areas / throughout construction period	Highways Department	EIAO-TM		Y		N/A

**\* Remarks:**

- ✓ Compliance of Mitigation Measures
- <> Compliance of Mitigation but need improvement
- x Non-compliance of Mitigation Measures
- ▲ Non-compliance of Mitigation Measures but rectified by Contractor
- Δ Deficiency of Mitigation Measures but rectified by Contractor
- N/A Not Applicable in Reporting Period

Legend: D=Design, C=Construction, O=Operation

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Appendix D

## Summary of Action and Limit Levels

**Table D1**      *Action and Limit Levels for 1-hour and 24-hour TSP*

<b>Parameters</b>	<b>Action</b>	<b>Limit</b>
24 Hour TSP Level in $\mu\text{g}/\text{m}^3$	ASR1 = 213 ASR5 = 238 AQMS1 = 213 ASR6 = 238 ASR10 = 214	260
1 Hour TSP Level in $\mu\text{g}/\text{m}^3$	ASR1 = 331 ASR5 = 340 AQMS1 = 335 ASR6 = 338 ASR10 = 337	500

**Table D2**      *Action and Limit Levels for Water Quality*

<b>Parameter</b>	<b>Action Level#</b>	<b>Limit Level#</b>
DO in $\text{mg}/\text{L}$ <sup>(a)</sup>	<u>Surface and Middle</u> <b>5.0 mg/L</b>	<u>Surface and Middle</u> <b>4.2 mg/L</b>
	<u>Bottom</u> <b>4.7 mg/L</b>	<u>Bottom</u> <b>3.6 mg/L</b>
Turbidity in NTU (Depth-averaged <sup>(b), (c)</sup> )	120% of upstream control station at the same tide of the same day and 95%-ile of baseline data, i.e., <b>27.5 NTU</b>	130% of upstream control station at the same tide of the same day and 99%-ile of baseline data, i.e., <b>47.0 NTU</b>
SS in $\text{mg}/\text{L}$ (Depth-averaged <sup>(b), (c)</sup> )	120% of upstream control station at the same tide of the same day and 95%-ile of baseline data, i.e., <b>23.5 mg/L</b>	130% of upstream control station at the same tide of the same day and 10mg/L for WSD Seawater Intakes at Tuen Mun and 99%-ile of baseline data, i.e., <b>34.4 mg/L</b>

**Notes:**

# Baseline data: data from HKZMB Baseline Water Quality Monitoring between 6 and 31 October 2011.

- (a) For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.
- (b) "Depth-averaged" is calculated by taking the arithmetic means of reading of all three depths
- (c) For turbidity and SS, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.
- (d) All figures given in the table are used for reference only, and EPD may amend the figures whenever it is considered as necessary
- (e) The 1%-ile of baseline data for surface and middle DO is 4.2 mg/L, whilst for bottom DO is 3.6 mg/L.

**Table D3** *Action and Limit Levels for Impact Dolphin Monitoring*

	North Lantau Social Cluster	
	NEL	NWL
Action Level	STG < 70% of baseline & ANI < 70% of baseline	STG < 70% of baseline & ANI < 70% of baseline
Limit Level	[STG < 40% of baseline & ANI < 40% of baseline] and STG < 40% of baseline & ANI < 40% of baseline	

**Notes:**

1. STG means quarterly encounter rate of number of dolphin sightings, which is **6.00 in NEL** and **9.85 in NWL** during the baseline monitoring period
2. ANI means quarterly encounter rate of total number of dolphins, which is **22.19 in NEL** and **44.66 in NWL** during the baseline monitoring period
3. For North Lantau Social Cluster, AL will be trigger if NEL or NWL fall below the criteria; LL will be triggered if both NEL and NWL fall below the criteria.

**Table D4** *Derived Value of Action Level (AL) and Limit Level (LL)*

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



Appendix E

Copies of Calibration  
Certificates for Air Quality  
and Water Quality  
Monitoring

High-Volume TSP Sampler  
5-Point Calibration Record

Location : ASR 1  
 Calibrated by : P.F.Yeung  
 Date : 10/04/2014

Sampler

Model : TE-5170  
 Serial Number : S/N 0146

Calibration Orifice and Standard Calibration Relationship

Serial Number : 2454  
 Service Date : 24 Mar 2014  
 Slope (m) : 2.07593  
 Intercept (b) : -0.00102  
 Correlation Coefficient(r) : 0.99996

Standard Condition

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

Calibration Condition

Pa (hpa) : 1015  
 Ta(K) : 296

Resistance Plate		dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC (chart)	Y (corrected)
1	18 holes	12.4	3.537	1.704	53	53.23
2	13 holes	9.8	3.144	1.515	46	46.20
3	10 holes	7.3	2.714	1.308	38	38.17
4	7 holes	4.6	2.154	1.038	30	30.13
5	5 holes	2.9	1.710	0.824	22	22.10

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 (Linear Regression)

Slope(m): 34.944 Intercept(b): -6.690 Correlation Coefficient(r): 0.9990

Checked by: Magnum Fan

Date: 16/04/2014

High-Volume TSP Sampler  
5-Point Calibration Record

Location : ASR1  
 Calibrated by : P.F.Yeung  
 Date : 10/06/2014

Sampler

Model : TE-5170  
 Serial Number : S/N 0146

Calibration Orifice and Standard Calibration Relationship

Serial Number : 2454  
 Service Date : 24 Mar 2014  
 Slope (m) : 2.07593  
 Intercept (b) : -0.00102  
 Correlation Coefficient(r) : 0.99996

Standard Condition

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

Calibration Condition

Pa (hpa) : 1002  
 Ta(K) : 300

Resistance Plate	dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC (chart)	Y (corrected)
1   18 holes	12.8	3.546	1.709	56	55.51
2   13 holes	9.7	3.087	1.488	48	47.58
3   10 holes	7.1	2.641	1.273	41	40.64
4   7 holes	5.0	2.216	1.068	33	32.71
5   5 holes	3.0	1.717	0.828	26	25.77

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 (Linear Regression)

Slope(m): 34.041 Intercept(b): -2.892 Correlation Coefficient(r): 0.9991

Checked by: Magnum Fan

Date: 16/06/2014

High-Volume TSP Sampler  
5-Point Calibration Record

Location : ASR 5  
 Calibrated by : P.F. Yeung  
 Date : 10/04/2014

Sampler

Model : TE-5170  
 Serial Number : S/N 0816

Calibration Orifice and Standard Calibration Relationship

Serial Number : 2454  
 Service Date : 24 Mar 2014  
 Slope (m) : 2.07593  
 Intercept (b) : -0.00102  
 Correlation Coefficient(r) : 0.99996

Standard Condition

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

Calibration Condition

Pa (hpa) : 1015  
 Ta(K) : 296

Resistance Plate	dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC (chart)	Y (corrected)
1   18 holes	12.6	3.565	1.718	52	52.23
2   13 holes	9.8	3.144	1.515	46	46.20
3   10 holes	6.8	2.619	1.262	38	38.17
4   7 holes	4.8	2.200	1.060	32	32.14
5   5 holes	2.8	1.681	0.810	24	24.10

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 (Linear Regression)

Slope(m): 30.983 Intercept(b): -0.878 Correlation Coefficient(r): 0.9999

Checked by: Magnum Fan

Date: 16/04/2014

High-Volume TSP Sampler  
5-Point Calibration Record

Location : ASR 5  
 Calibrated by : P.F. Yeung  
 Date : 10/06/2014

Sampler

Model : TE-5170  
 Serial Number : S/N 0816

Calibration Orifice and Standard Calibration Relationship

Serial Number : 2454  
 Service Date : 24 Mar 2014  
 Slope (m) : 2.07593  
 Intercept (b) : -0.00102  
 Correlation Coefficient(r) : 0.99996

Standard Condition

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

Calibration Condition

Pa (hpa) : 1002  
 Ta(K) : 300

Resistance Plate		dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC (chart)	Y (corrected)
1	18 holes	12.2	3.462	1.668	54	53.53
2	13 holes	10.0	3.135	1.510	49	48.57
3	10 holes	7.2	2.660	1.282	42	41.63
4	7 holes	4.7	2.149	1.037	35	34.69
5	5 holes	2.8	1.659	0.799	27	26.76

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 (Linear Regression)

Slope(m): 30.460 Intercept(b): 2.684 Correlation Coefficient(r): 0.9996

Checked by: Magnum Fan

Date: 16/06/2014

High-Volume TSP Sampler  
5-Point Calibration Record

Location : ASR 6  
 Calibrated by : P.F. Yeung  
 Date : 10/04/2014

Sampler

Model : TE-5170  
 Serial Number : S/N 3957

Calibration Orifice and Standard Calibration Relationship

Serial Number : 2454  
 Service Date : 24 Mar 2014  
 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) : 1015  
 Ta(K) : 296

Resistance Plate	dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC (chart)	Y (corrected)
1   18 holes	11.4	3.391	1.634	55	55.24
2   13 holes	9.0	3.013	1.452	48	48.21
3   10 holes	6.6	2.580	1.243	40	40.17
4   7 holes	4.5	2.131	1.027	32	32.14
5   5 holes	2.8	1.681	0.810	24	24.10

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 (Linear Regression)

Slope(m): 37.778 Intercept(b): -6.617 Correlation Coefficient(r): 0.999

Checked by: Magnum Fan

Date: 16/04/2014

High-Volume TSP Sampler  
5-Point Calibration Record

Location : ASR6  
 Calibrated by : P.F. Yeung  
 Date : 10/06/2014

Sampler

Model : TE-5170  
 Serial Number : S/N 3957

Calibration Orifice and Standard Calibration Relationship

Serial Number : 2454  
 Service Date : 24 Mar 2014  
 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) : 1002  
 Ta(K) : 300

Resistance Plate	dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC (chart)	Y (corrected)
1   18 holes	11.4	3.347	1.613	55	54.52
2   13 holes	9.0	2.974	1.433	48	47.58
3   10 holes	6.6	2.547	1.227	40	39.65
4   7 holes	4.5	2.102	1.013	32	31.72
5   5 holes	2.8	1.659	0.799	24	23.79

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 (Linear Regression)

Slope(m): 37.778 Intercept(b): -6.531 Correlation Coefficient(r): 0.9999

Checked by: Magnum Fan

Date: 16/06/2014

High-Volume TSP Sampler  
5-Point Calibration Record

Location : ASR10  
 Calibrated by : P.F. Yeung  
 Date : 10/04/2014

Sampler

Model : TE-5170  
 Serial Number : S/N 8162

Calibration Orifice and Standard Calibration Relationship

Serial Number : 2454  
 Service Date : 24 Mar 2014  
 Slope (m) : 2.07593  
 Intercept (b) : -0.00102  
 Correlation Coefficient(r) : 0.99996

Standard Condition

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

Calibration Condition

Pa (hpa) : 1015  
 Ta(K) : 296

Resistance Plate		dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC (chart)	Y (corrected)
1	18 holes	11.1	3.346	1.612	61	61.27
2	13 holes	9.0	3.013	1.452	54	54.24
3	10 holes	7.2	2.695	1.299	48	48.21
4	7 holes	5.0	2.246	1.082	38	38.17
5	5 holes	2.9	1.710	0.824	28	28.12

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 (Linear Regression)

Slope(m): 42.292 Intercept(b): -7.032 Correlation Coefficient(r): 0.9996

Checked by: Magnum Fan

Date: 16/04/14



High-Volume TSP Sampler  
5-Point Calibration Record

Location : ASR10  
 Calibrated by : P.F. Yeung  
 Date : 10/06/2014

Sampler

Model : TE-5170  
 Serial Number : S/N 8162

Calibration Orifice and Standard Calibration Relationship

Serial Number : 2454  
 Service Date : 24 Mar 2014  
 Slope (m) : 2.07593  
 Intercept (b) : -0.00102  
 Correlation Coefficient(r) : 0.99996

Standard Condition

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

Calibration Condition

Pa (hpa) : 1002  
 Ta(K) : 300

Resistance Plate		dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC (chart)	Y (corrected)
1	18 holes	12.2	3.462	1.668	57	56.50
2	13 holes	9.8	3.103	1.495	51	50.55
3	10 holes	7.2	2.660	1.282	44	43.61
4	7 holes	4.8	2.172	1.047	36	35.68
5	5 holes	3.0	1.717	0.828	27	26.76

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 (Linear Regression)

Slope(m): 34.928 Intercept(b): -1.523 Correlation Coefficient(r): 0.9991

Checked by: Magnum Fan

Date: 16/06/14

High-Volume TSP Sampler  
5-Point Calibration Record

Location : AQMS1  
 Calibrated by : P.F. Yeung  
 Date : 10/04/2014

Sampler

Model : TE-5170  
 Serial Number : S/N 1253

Calibration Orifice and Standard Calibration Relationship

Serial Number : 2454  
 Service Date : 24 Mar 2014  
 Slope (m) : 2.07593  
 Intercept (b) : -0.00102  
 Correlation Coefficient(r) : 0.99996

Standard Condition

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

Calibration Condition

Pa (hpa) : 1015  
 Ta(K) : 296

Resistance Plate		dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC (chart)	Y (corrected)
1	18 holes	12.4	3.537	1.704	53	53.23
2	13 holes	9.6	3.112	1.500	47	47.21
3	10 holes	7.2	2.695	1.299	42	42.18
4	7 holes	4.6	2.154	1.038	35	35.15
5	5 holes	2.8	1.681	0.810	28	28.12

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 (Linear Regression)

Slope(m): 27.690 Intercept(b): 6.009 Correlation Coefficient(r): 0.9994

Checked by: Magnum Fan

Date: 16/04/2014

High-Volume TSP Sampler  
5-Point Calibration Record

Location : AQMS1  
 Calibrated by : P.F. Yeung  
 Date : 10/06/2014

Sampler

Model : TE-5170  
 Serial Number : S/N 1253

Calibration Orifice and Standard Calibration Relationship

Serial Number : 2454  
 Service Date : 24 Mar 2014  
 Slope (m) : 2.07593  
 Intercept (b) : -0.00102  
 Correlation Coefficient(r) : 0.99996

Standard Condition

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

Calibration Condition

Pa (hpa) : 1002  
 Ta(K) : 300

Resistance Plate		dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC (chart)	Y (corrected)
1	18 holes	12.5	3.505	1.689	53	52.54
2	13 holes	10.0	3.135	1.510	47	46.59
3	10 holes	7.2	2.660	1.282	41	40.64
4	7 holes	4.8	2.172	1.047	34	33.70
5	5 holes	3.0	1.717	0.828	28	27.75

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 (Linear Regression)

Slope(m): 28.931 Intercept(b): 3.982 Correlation Coefficient(r): 0.9994

Checked by: Magnum Fan

Date: 16/06/2014



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

ORIFICE TRANSFER STANDARD CERTIFICATION WORKSHEET TE-5025A

Date - Mar 24, 2014 Rootsmeter S/N 0438320 Ta (K) - 293  
 Operator Tisch Orifice I.D. - 2454 Pa (mm) - 758.19

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	1.4740	3.2	2.00
2	NA	NA	1.00	1.0340	6.4	4.00
3	NA	NA	1.00	0.9240	7.9	5.00
4	NA	NA	1.00	0.8820	8.8	5.50
5	NA	NA	1.00	0.7270	12.7	8.00

DATA TABULATION

Vstd	(x axis) Qstd	(y axis)	Va	(x axis) Qa	(y axis)
1.0103	0.6854	1.4245	0.9958	0.6755	0.8791
1.0061	0.9730	2.0146	0.9916	0.9590	1.2433
1.0040	1.0866	2.2524	0.9895	1.0709	1.3900
1.0028	1.1370	2.3623	0.9884	1.1206	1.4579
0.9976	1.3722	2.8491	0.9832	1.3524	1.7583
Qstd slope (m) = 2.07593			Qa slope (m) = 1.29991		
intercept (b) = -0.00102			intercept (b) = -0.00063		
coefficient (r) = 0.99996			coefficient (r) = 0.99996		
y axis = $\text{SQRT}[\text{H2O}(\text{Pa}/760)(298/\text{Ta})]$			y axis = $\text{SQRT}[\text{H2O}(\text{Ta}/\text{Pa})]$		

CALCULATIONS

Vstd = Diff. Vol [(Pa-Diff. Hg)/760] (298/Ta)  
 Qstd = Vstd/Time

Va = Diff Vol [(Pa-Diff Hg)/Pa]  
 Qa = Va/Time

For subsequent flow rate calculations:

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

Calibration Report of Wind Meter

Date of Calibration : 29 May 2014

Brand of Test Meter: MetPak

Model: MetPak II (S/N: 13130002)

Location : ASR5

Procedures :

1. Wind Still Test: The wind meter was covered by a plastic bag
2. Wind Speed Test: The wind meter was on-site calibrated against the Anemometer
3. Wind Direction Test The wind meter was on-site calibrated against the marine compass at four directions

Results:

Wind Still Test

Wind Speed (m/s)
0.00

Wind Speed Test

MetPak II (m/s)	Anemometer (m/s)
1.81	1.9
3.09	3.2
4.76	4.5

Wind Direction Test

MetPak II (o)	Marine Compass (o)
270	270
0	0
90	90
180	180

Calibrated by:

Fai  
 Yeung Ping Fai  
 (Technical Officer)

Checked by :

Fat  
 Ho Kam Fat  
 (Senior Technical Officer)

**ENVIROTECH SERVICES CO.**

**Calibration Report of Wind Meter**

Date of Calibration : 29 June 2014

Brand of Test Meter: Davis

Model: Weather Wizard III (s/n: WE90911A30)

Location : ASR5

Procedures :

- 1. Wind Still Test: The wind speed sensor was hold by hand until it keep still
- 2. Wind Speed Test: The wind meter was on-site calibrated against the Anemometer
- 3. Wind Direction Test : The wind meter was on-site calibrated against the marine compass at four directions

Results:

Wind Still Test

Wind Speed (m/s)
0.00

Wind Speed Test

Davis (m/s)	Anemomete (m/s)
1.2	1.1
2.3	2.5
1.7	1.9

Wind Direction Test

Davis (o)	Marine Compass (o)
271	270
0	0
90	90
181	180

Calibrated by: Fai  
Yeung Ping Fai  
(Technical Officer)

Checked by : Fat  
Ho Kam Fat  
(Senior Technical Officer)



# Certificate of Calibration 校正證書

Certificate No. : C143205  
證書編號

ITEM TESTED / 送檢項目 ( Job No. / 序引編號 : IC14-1304 )

Date of Receipt / 收件日期 : 19 May 2014

Description / 儀器名稱 : Anemometer  
Manufacturer / 製造商 : Lutron  
Model No. / 型號 : AM-4201  
Serial No. / 編號 : AF.27513  
Supplied By / 委託者 : Envirotech Services Co.  
Shop 6, G/F., Casio Mansion, 209 Shaukeiwan Road,  
Hong Kong

## TEST CONDITIONS / 測試條件

Temperature / 溫度 :  $(23 \pm 2)^{\circ}\text{C}$   
Line Voltage / 電壓 : ---

Relative Humidity / 相對濕度 :  $(55 \pm 20)\%$

## TEST SPECIFICATIONS / 測試規範

Calibration check

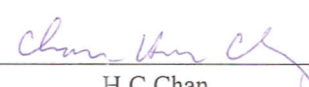
DATE OF TEST / 測試日期 : 26 May 2014

## TEST RESULTS / 測試結果

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

The test equipment used for calibration are traceable to National Standards via :  
- Testo Industrial Services GmbH, Germany

Tested By :   
測試 : \_\_\_\_\_  
H S Chung  
Technician

Certified By :   
核證 : \_\_\_\_\_  
H C Chan  
Engineer

Date of Issue : 27 May 2014  
簽發日期

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所書面批准。



# Certificate of Calibration

## 校正證書

Certificate No. : C143205  
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 10 measurements at each calibration point.
- Test equipment :

<u>Equipment ID</u>	<u>Description</u>	<u>Certificate No.</u>
CL386	Multi-function Measuring Instrument	S12109

- Test procedure : MA130N.
- Results :

### Air Velocity

Applied Value (m/s)	UUT Reading (m/s)	Measured Correction		
		Value (m/s)	Measurement Uncertainty	
			Expanded Uncertainty (m/s)	Coverage Factor
2.1	1.8	+0.3	0.2	2.0
4.1	4.0	+0.1	0.3	2.0
6.1	6.1	0.0	0.3	2.0
8.2	8.4	-0.2	0.3	2.0
10.1	10.4	-0.3	0.4	2.0

Remarks : - The Measured Corrections are defined as :  
Value = Applied Value - UUT Reading

- The expanded uncertainties are for a level of confidence of 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。



## Performance Check of Turbidity Meter

Equipment Ref. No. : ET/0505/010                      Manufacturer : HACH  
Model No. : 2100Q                                      Serial No. : 11110 C 014260  
Date of Calibration : 07/04/2014                      Due Date : 06/07/2014

Theoretical Value of Turbidity Standard (NTU)	Measured Value (NTU)	Difference % *
20	19.5	-2.50
100	103	3.00
800	792	-1.00

(\*) Difference = (Measured Value – Theoretical Value) / Theoretical Value x 100

Acceptance Criteria

Difference : -5 % to 5 %

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

Prepared by : 

Checked by : 



### Internal Calibration Report of Dissolved Oxygen Meter

Equipment Ref. No. : <u>ET/EW/008/005</u>	Manufacturer : <u>YSI</u>
Model No. : <u>Pro 2030</u>	Serial No. : <u>12A 100353</u>
Date of Calibration : <u>28/04/2014</u>	Calibration Due Date : <u>27/07/2014</u>

**Temperature Verification**

Ref. No. of Reference Thermometer : ET/0521/008  
 Ref. No. of Water Bath : ---

		Temperature (°C)		
Reference Thermometer reading	Measured	20.1	Corrected	19.7
DO Meter reading	Measured	19.6	Difference	0.1

**Standardization of sodium thiosulphate (Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>) solution**

Reagent No. of Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> titrant	CPE/012/4.5/001/8	Reagent No. of 0.025N K <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub>	CPE/012/4.4/001/26
		Trial 1	Trial 2
Initial Vol. of Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (ml)		0.00	10.20
Final Vol. of Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (ml)		10.20	20.45
Vol. of Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> used (ml)		10.20	10.25
Normality of Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> solution (N)		0.02451	0.02439
Average Normality (N) of Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> solution (N)		0.02445	
Acceptance criteria, Deviation		Less than ± 0.001N	

Calculation: Normality of Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>, N = 0.25 / ml Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> used

**Linearity Checking**

**Determination of dissolved oxygen content by Winkler Titration \***

Purging Time (min)	2		5		10	
	1	2	1	2	1	2
Initial Vol. of Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (ml)	0.00	12.00	24.00	0.00	8.10	12.90
Final Vol. of Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (ml)	12.00	24.00	32.00	8.10	12.90	17.60
Vol. (V) of Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> used (ml)	12.00	12.00	8.00	8.10	4.80	4.70
Dissolved Oxygen (DO), mg/L	7.88	7.88	5.25	5.32	3.15	3.08
Acceptance criteria, Deviation	Less than + 0.3mg/L		Less than + 0.3mg/L		Less than + 0.3mg/L	

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

Purging time, min	DO meter reading, mg/L			Winkler Titration result *, mg/L			Difference (%) of DO Content
	1	2	Average	1	2	Average	
2	7.65	7.58	7.62	7.88	7.88	7.88	3.35
5	5.34	5.39	5.37	5.25	5.32	5.29	1.50
10	3.21	3.17	3.19	3.15	3.08	3.12	2.22
Linear regression coefficient				0.9983			



## Internal Calibration Report of Dissolved Oxygen Meter

### Zero Point Checking

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

### Salinity Checking

Reagent No. of NaCl (10ppt)	CPE/012/4.7/002/19	Reagent No. of NaCl (30ppt)	CPE/012/4.8/002/19
-----------------------------	--------------------	-----------------------------	--------------------

### Determination of dissolved oxygen content by Winkler Titration \*\*

Salinity (ppt)	10		30	
	1	2	1	2
Trial				
Initial Vol. of Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (ml)	0.00	11.90	23.70	34.20
Final Vol. of Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (ml)	11.90	23.70	34.20	44.80
Vol. (V) of Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> used (ml)	11.90	11.80	10.50	10.60
Dissolved Oxygen (DO), mg/L	7.81	7.75	6.89	6.96
Acceptance criteria, Deviation	Less than + 0.3mg/L		Less than + 0.3mg/L	

Calculation:  $DO (mg/L) = V \times N \times 8000/298$

Salinity (ppt)	DO meter reading, mg/L			Winkler Titration result**, mg/L			Difference (%) of DO Content
	1	2	Average	1	2	Average	
10	7.86	7.79	7.83	7.81	7.75	7.78	0.64
30	6.95	6.99	6.97	6.89	6.96	6.93	0.58

### Acceptance Criteria

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

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

# Delete as appropriate

Calibrated by

:

Approved by :



## Performance Check of Salinity Meter

Equipment Ref. No. : ET/EW/008/005 Manufacturer : YSI

Model No. : Pro 2030 Serial No. : 12A 100353

Date of Calibration : 28/04/2014 Due Date : 27/07/2014

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

S/001/5

Salinity Standard (ppt)	Measured Salinity (ppt)	Difference * (%)
30.0	31.1	3.67

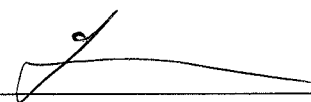
(\* ) Difference (%) = (Measured Salinity – Salinity Standard value) / Salinity Standard value x 100

Acceptance Criteria

Difference : -10 % to 10 %

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

Checked by : 

Approved by : 





### Internal Calibration & Performance Check of pH Meter

Equipment Ref. No. : ET/EW/007/003      Manufacturer : HANNA  
 Model No. : HI 8314      Serial No. : 674469  
 Date of Calibration : 10/06/2014      Calibration Due Date : 09/07/2014

#### Liquid Junction Error

Primary Standard Solution Used : Phosphate      Ref No. of Primary Solution: 003/5.2/001/18  
 Temperature of Solution : 20.0       $\Delta\text{pH}_{\frac{1}{2}} = \underline{+0.08}$   
 pH value of diluted buffer : 6.77      pH (S) = 6.881  
 $\Delta\text{pH} = \text{pH(S)} - \text{pH of diluted buffer} = \underline{0.111}$  (Observed Deviation)  
 Liquid Junction Error ( $\Delta\text{pH}_j$ ) =  $\Delta\text{pH} - \Delta\text{pH}_{\frac{1}{2}} = \underline{0.031}$

#### Shift on Stirring

pH of buffer solution (with stirring),  $\text{pH}_s = \underline{6.92}$   
 Shift on stirring,  $\Delta\text{pH}_s = \text{pH}_s - \text{pH(S)} - \Delta\text{pH}_j = \underline{0.008}$

#### Noise

Noise,  $\Delta\text{pH}_n = \text{difference between max and min reading} : \underline{0.00}$

#### Verification of ATC

Ref. No. of reference thermometer used: ET/0521/008  
 Temperature record from the reference thermometer ( $T_R$ ): 19.6 °C  
 Temperature record from the ATC ( $T_{ATC}$ ): 19.5 °C  
 Temperature Difference,  $|T_R - T_{ATC}|$  : 0.1 °C

#### Acceptance Criteria

Performance Characteristic	Acceptable Range
Liquid Junction Error $\Delta\text{pH}_j$	$\leq 0.05$
Shift on Stirring $\Delta\text{pH}_s$	$\leq 0.02$
Noise $\Delta\text{pH}_n$	$\leq 0.02$
Verification of ATC      Temperature Difference	$\leq 0.5^\circ\text{C}$

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

\* Delete as appropriate

Calibrated by :       Checked by :

Appendix F

## EM&A Monitoring Schedules



**HY/2012/08 - Tuen Mun - Chek Lap Kok Link  
Northern Connection Sub-sea Tunnel Section  
Air Quality Impact Monitoring Schedule - June 2014**

Air quality monitoring stations: ASR1, ASR5, ASR6, ASR10, AQMS1

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
01-Jun	public holiday 02-Jun	03-Jun	04-Jun	05-Jun	06-Jun	07-Jun
		1-hour TSP - 3 times 24-hour TSP - 1 time  <i>Impact AQM</i>				
08-Jun	09-Jun	10-Jun	11-Jun	12-Jun	13-Jun	14-Jun
	1-hour TSP - 3 times 24-hour TSP - 1 time  <i>Impact AQM</i>				1-hour TSP - 3 times 24-hour TSP - 1 time  <i>Impact AQM</i>	
15-Jun	16-Jun	17-Jun	18-Jun	19-Jun	20-Jun	21-Jun
				1-hour TSP - 3 times 24-hour TSP - 1 time  <i>Impact AQM</i>		
22-Jun	23-Jun	24-Jun	25-Jun	26-Jun	27-Jun	28-Jun
			1-hour TSP - 3 times 24-hour TSP - 1 time  <i>Impact AQM</i>			
29-Jun	30-Jun					
	1-hour TSP - 3 times 24-hour TSP - 1 time  <i>Impact AQM</i>					

The schedule is subject to agreement from the EPD on the monitoring times. The schedule will be revised after reviewing the progress of the construction works or due to adverse (safety, weather etc) conditions.

**HY/2012/08 - Tuen Mun - Chek Lap Kok Link  
Northern Connection Sub-sea Tunnel Section  
Tentative Air Quality Impact Monitoring Schedule - July 2014**

Air quality monitoring stations: ASR1, ASR5, ASR6, ASR10, AQMS1

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		public holiday 01-Jul	02-Jul	03-Jul	04-Jul	05-Jul
						1-hour TSP - 3 times 24-hour TSP - 1 time Impact AQM
06-Jul	07-Jul	08-Jul	09-Jul	10-Jul	11-Jul	12-Jul
					1-hour TSP - 3 times 24-hour TSP - 1 time Impact AQM	
13-Jul	14-Jul	15-Jul	16-Jul	17-Jul	18-Jul	19-Jul
				1-hour TSP - 3 times 24-hour TSP - 1 time Impact AQM		
20-Jul	21-Jul	22-Jul	23-Jul	24-Jul	25-Jul	26-Jul
			1-hour TSP - 3 times 24-hour TSP - 1 time Impact AQM			
27-Jul	28-Jul	29-Jul	30-Jul	31-Jul		
		1-hour TSP - 3 times 24-hour TSP - 1 time Impact AQM				

The schedule is subject to agreement from the EPD on the monitoring times. The schedule will be revised after reviewing the progress of the construction works or due to adverse (safety, weather etc) conditions.

**HY/2012/08 - Tuen Mun - Chek Lap Kok Link - Northern Connection Sub-sea Tunnel Section  
Impact Marine Water Quality Monitoring (WQM) Schedule (June 14)**

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
01-Jun	02-Jun	03-Jun	04-Jun	05-Jun	06-Jun	07-Jun
	<b>WQM</b> Mid-Flood 8:43 (06:58 - 10:28) Mid-Ebb 15:52 (14:07 - 17:37)		<b>WQM</b> Mid-Flood 9:58 (08:13 - 11:43) Mid-Ebb 17:04 (15:19 - 18:49)		<b>WQM</b> Mid-Flood 12:19 (10:34 - 14:04) Mid-Ebb 18:46 (17:01 - 20:31)	
08-Jun	09-Jun	10-Jun	11-Jun	12-Jun	13-Jun	14-Jun
	<b>WQM</b> Mid-Ebb 10:19 (08:34 - 12:04) Mid-Flood 16:42 (14:57 - 18:27)		<b>WQM</b> Mid-Ebb 11:39 (09:54 - 13:24) Mid-Flood 18:31 (16:48 - 20:16)		<b>WQM</b> Mid-Ebb 13:05 (11:20 - 14:50) Mid-Flood 20:11 (18:26 - 21:56)	
15-Jun	16-Jun	17-Jun	18-Jun	19-Jun	20-Jun	21-Jun
	<b>WQM</b> Mid-Flood 8:26 (06:41 - 10:11) Mid-Ebb 15:25 (13:40 - 17:10)		<b>WQM</b> Mid-Flood 10:15 (08:30 - 12:00) Mid-Ebb 17:04 (15:19 - 18:49)		<b>WQM</b> Mid-Flood 12:55 (11:10 - 14:40) Mid-Ebb 19:07 (17:22 - 20:52)	
22-Jun	23-Jun	24-Jun	25-Jun	26-Jun	27-Jun	28-Jun
	<b>WQM</b> Mid-Ebb 10:29 (08:44 - 12:14) Mid-Flood 16:57 (15:12 - 18:42)		<b>WQM</b> Mid-Ebb 11:57 (10:12 - 13:42) Mid-Flood 18:50 (17:05 - 20:35)		<b>WQM</b> Mid-Ebb 13:12 (11:27 - 14:57) Mid-Flood 20:11 (18:26 - 21:56)	
29-Jun	30-Jun	01-Jul	02-Jul	03-Jul	04-Jul	05-Jul
	<b>WQM</b> Mid-Flood 7:53 (06:08 - 09:38) Mid-Ebb 14:55 (13:10 - 16:40)					

# HY/2012/08 - Tuen Mun - Chek Lap Kok Link - Northern Connection Sub-sea Tunnel Section

## Tentative Impact Marine Water Quality Monitoring (WQM) Schedule (July 14)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		01-Jul	02-Jul	03-Jul	04-Jul	05-Jul
			<b>WQM</b> Mid-Flood 9:06 (07:21 - 10:51) Mid-Ebb 15:59 (14:14 - 17:44)		<b>WQM</b> Mid-Flood 10:35 (08:50 - 12:20) Mid-Ebb 17:09 (15:24 - 18:54)	
06-Jul	07-Jul	08-Jul	09-Jul	10-Jul	11-Jul	12-Jul
	<b>WQM</b> Mid-Ebb 8:36 (06:51 - 10:21) Mid-Flood 14:53 (13:08 - 16:38)		<b>WQM</b> Mid-Ebb 10:30 (08:45 - 12:15) Mid-Flood 17:33 (15:48 - 19:18)		<b>WQM</b> Mid-Ebb 12:04 (10:19 - 13:49) Mid-Flood 19:14 (17:29 - 20:59)	
13-Jul	14-Jul	15-Jul	16-Jul	17-Jul	18-Jul	19-Jul
	<b>WQM</b> Mid-Ebb 14:25 (12:40 - 16:10) Mid-Flood 21:25 (19:40 - 23:10)		<b>WQM</b> Mid-Flood 9:15 (07:30 - 11:00) Mid-Ebb 15:56 (14:11 - 17:41)		<b>WQM</b> Mid-Flood 11:21 (09:36 - 13:06) Mid-Ebb 17:33 (15:48 - 19:18)	
20-Jul	21-Jul	22-Jul	23-Jul	24-Jul	25-Jul	26-Jul
	<b>WQM</b> Mid-Ebb 9:08 (07:23 - 10:53) Mid-Flood 15:41 (13:56 - 17:26)		<b>WQM</b> Mid-Ebb 10:58 (09:13 - 12:43) Mid-Flood 18:03 (16:18 - 19:48)		<b>WQM</b> Mid-Ebb 12:19 (10:34 - 14:04) Mid-Flood 19:16 (17:31 - 21:01)	
27-Jul	28-Jul	29-Jul	30-Jul	31-Jul		
	<b>WQM</b> Mid-Ebb 14:02 (12:17 - 15:47) Mid-Flood 20:45 (19:00 - 22:30)		<b>WQM</b> Mid-Ebb 8:19 (06:34 - 10:04) Mid-Flood 15:00 (13:15 - 16:45)			

**HY/2012/08 - Tuen Mun - Chek Lap Kok Link  
Northern Connection Sub-sea Tunnel Section  
Impact Dolphin Monitoring Survey Monitoring Schedule - June 2014**

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
01-Jun	public holiday 02-Jun	03-Jun	04-Jun	05-Jun	06-Jun	07-Jun
		<b>Impact Dolphin Monitoring</b>		<b>Impact Dolphin Monitoring</b>		
08-Jun	09-Jun	10-Jun	11-Jun	12-Jun	13-Jun	14-Jun
		<b>Impact Dolphin Monitoring</b>				
15-Jun	16-Jun	17-Jun	18-Jun	19-Jun	20-Jun	21-Jun
	<b>Impact Dolphin Monitoring</b>					
22-Jun	23-Jun	24-Jun	25-Jun	26-Jun	27-Jun	28-Jun
29-Jun	30-Jun					

The schedule is subject to agreement from the EPD on the monitoring times. The schedule will be revised after reviewing the progress of the construction works or due to adverse (safety, weather etc) conditions.

**HY/2012/08 - Tuen Mun - Chek Lap Kok Link  
Northern Connection Sub-sea Tunnel Section  
Tentative Impact Dolphin Monitoring Survey Monitoring Schedule - July 2014**

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		public holiday 01-Jul	02-Jul	03-Jul	04-Jul	05-Jul
				Impact Dolphin Monitoring		
06-Jul	07-Jul	08-Jul	09-Jul	10-Jul	11-Jul	12-Jul
				Impact Dolphin Monitoring		
13-Jul	14-Jul	15-Jul	16-Jul	17-Jul	18-Jul	19-Jul
	Impact Dolphin Monitoring					
20-Jul	21-Jul	22-Jul	23-Jul	24-Jul	25-Jul	26-Jul
	Impact Dolphin Monitoring					
27-Jul	28-Jul	29-Jul	30-Jul	31-Jul		

The schedule is subject to agreement from the EPD on the monitoring times. The schedule will be revised after reviewing the progress of the construction works or due to adverse (safety, weather etc) conditions.

Appendix G

## Impact Air Quality Monitoring Results

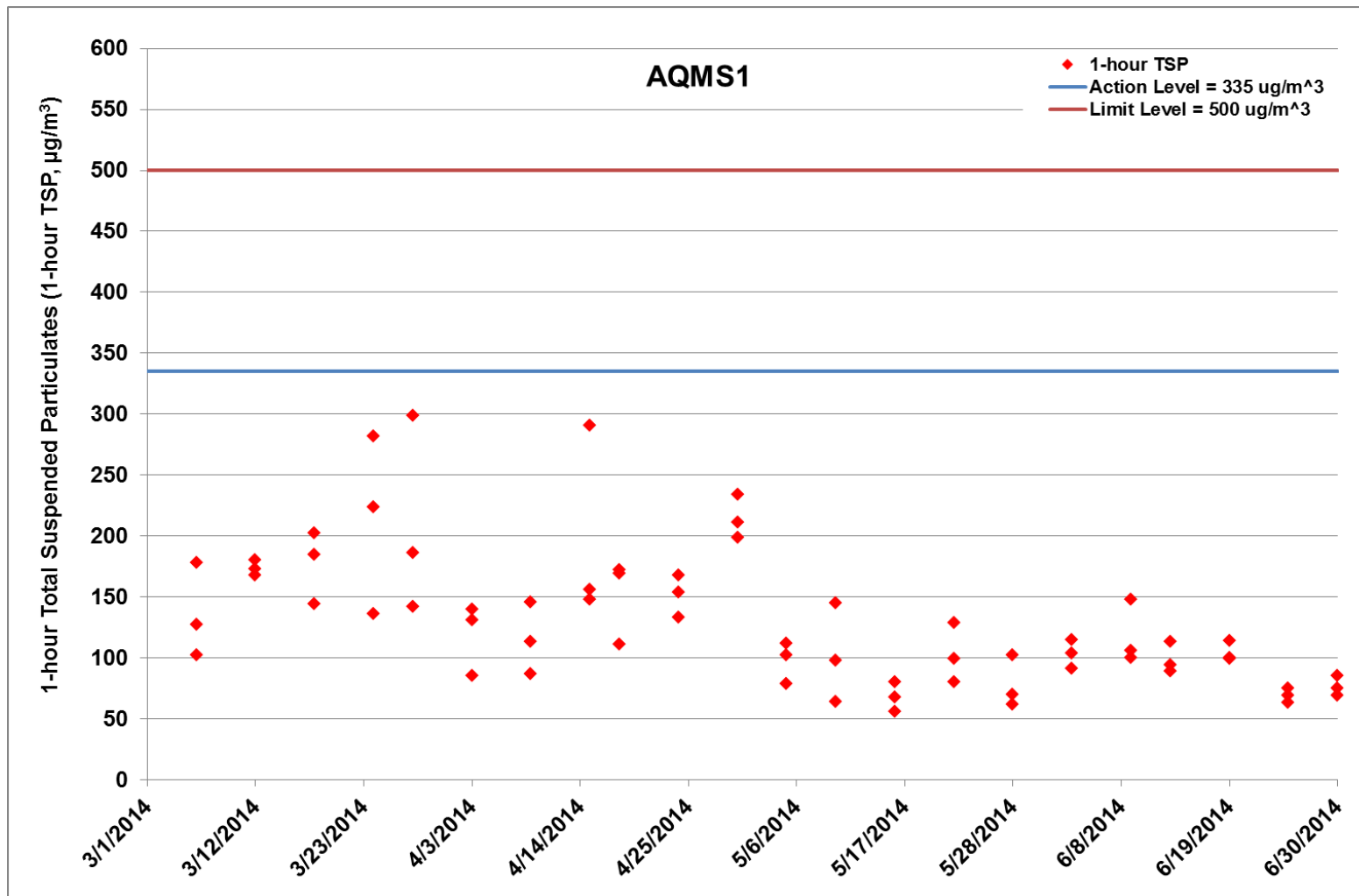


Figure G.1 Impact Monitoring – 1-hour Total Suspended Particulates ( $\mu\text{g}/\text{m}^3$ ) at AQMS1 between 1 March 2014 and 30 June 2014 during impact monitoring period. The weather conditions during the monitoring period varied from sunny to cloudy. Major land-based construction activities included: Diaphragm Wall Construction at Reclamation Area – Portion N-A (14/5/2014 – 30/6/2014) & Construction of CLP Temporary Substation at N6 (1/3/2014 – 30/6/2014)

Ref: 0212330\_Impact AQM graphs\_Jun 2014\_REV a.xlsx





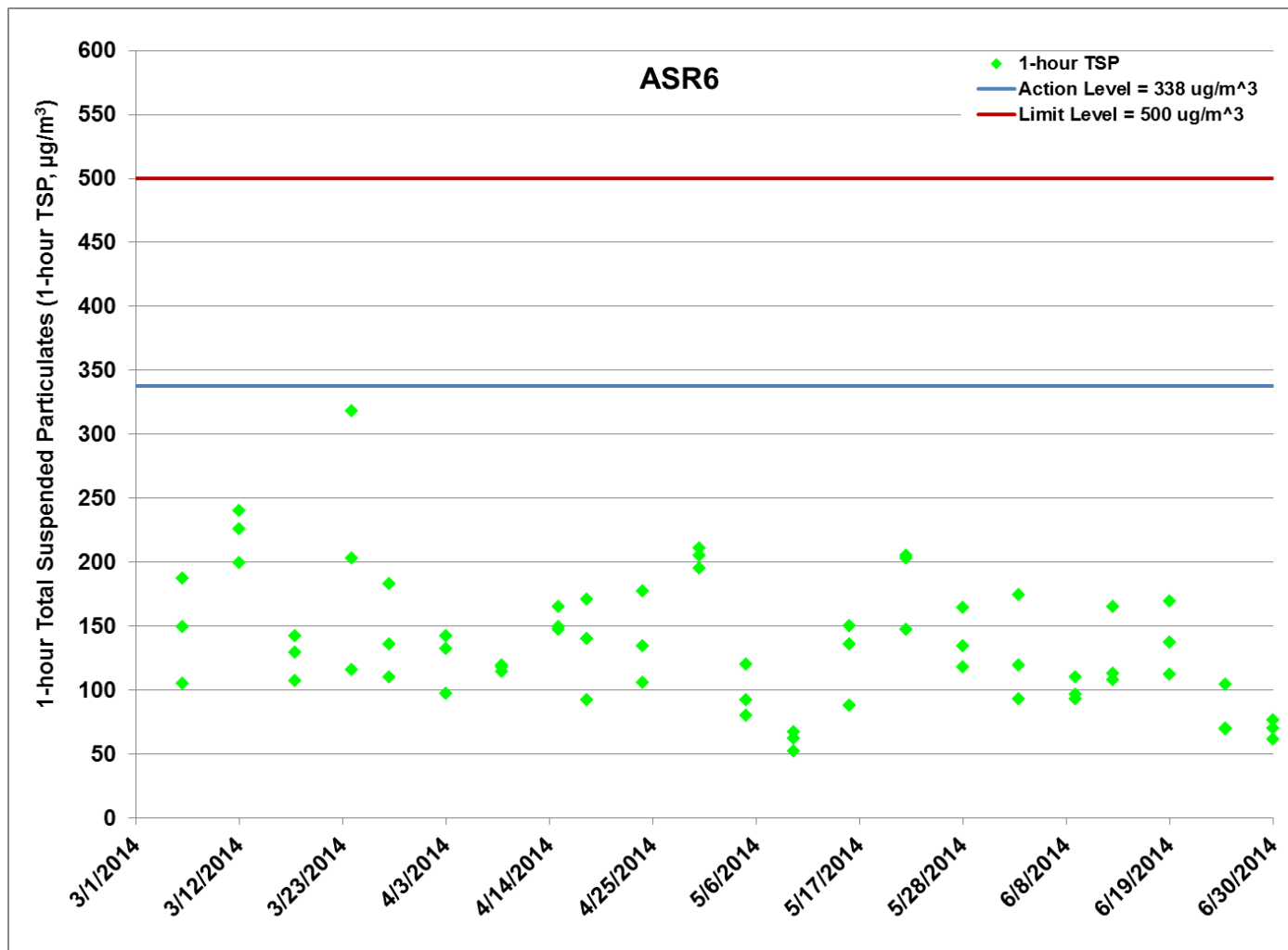


Figure G.2 Impact Monitoring – 1-hour Total Suspended Particulates ( $\mu\text{g}/\text{m}^3$ ) at ASR6 between 1 March 2014 and 30 June 2014 during impact monitoring period. The weather conditions during the monitoring period varied from sunny to cloudy. Major land-based construction activities included: Diaphragm Wall Construction at Reclamation Area – Portion N-A (14/5/2014 – 30/6/2014) & Construction of CLP Temporary Substation at N6 (1/3/2014 – 30/6/2014)

Ref: 0212330\_Impact AQM graphs\_Jun 2014\_REV a.xlsx



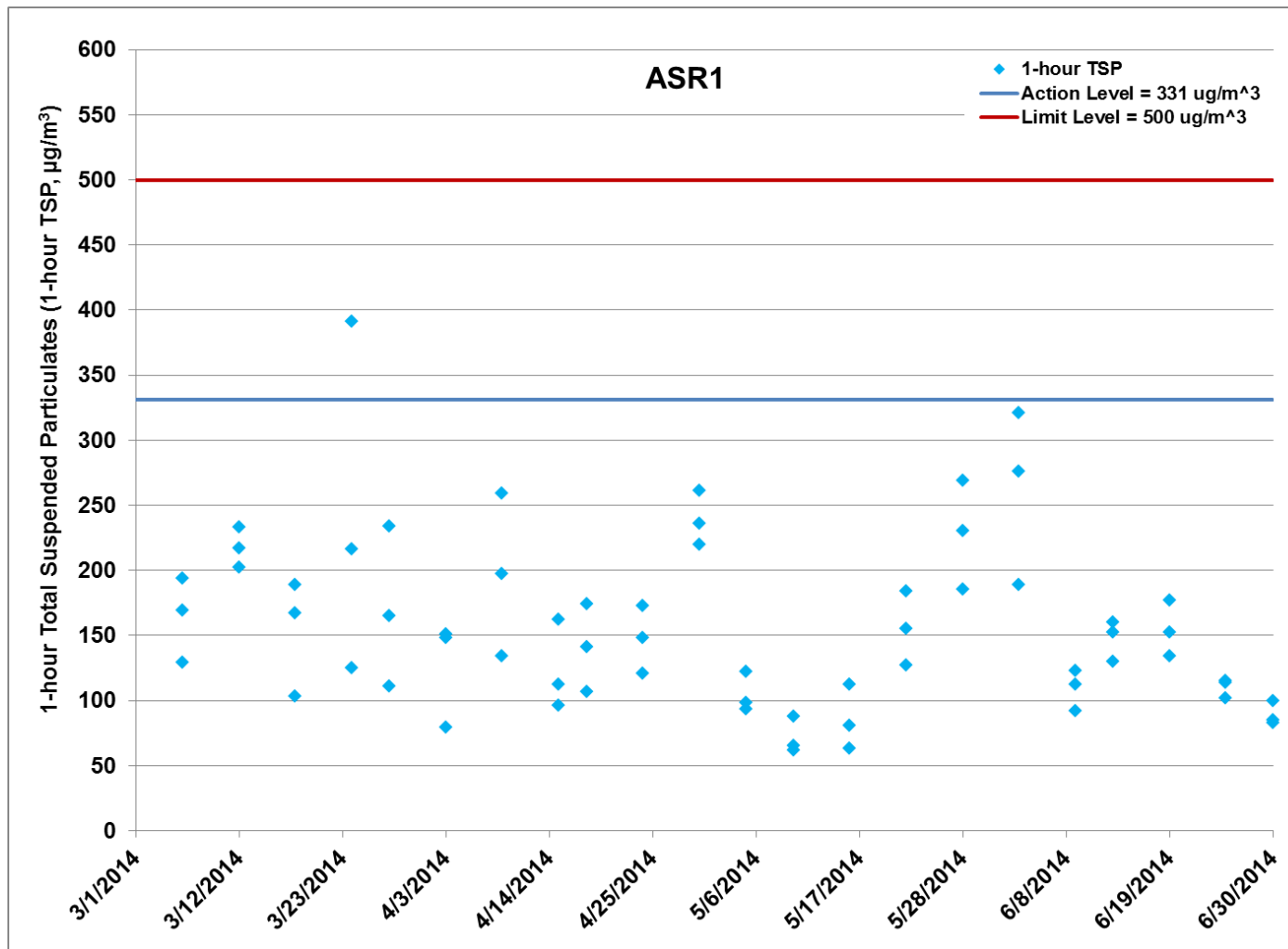


Figure G.3 Impact Monitoring - 1-hour Total Suspended Particulates ( $\mu\text{g}/\text{m}^3$ ) at ASR1 between 1 March 2014 and 30 June 2014 during impact monitoring period. The weather conditions during the monitoring period varied from sunny to cloudy. Major land-based construction activities included: Diaphragm Wall Construction at Reclamation Area - Portion N-A (14/5/2014 - 30/6/2014) & Construction of CLP Temporary Substation at N6 (1/3/2014 - 30/6/2014)

Ref: 0212330\_Impact AQM graphs\_Jun 2014\_REV a.xlsx



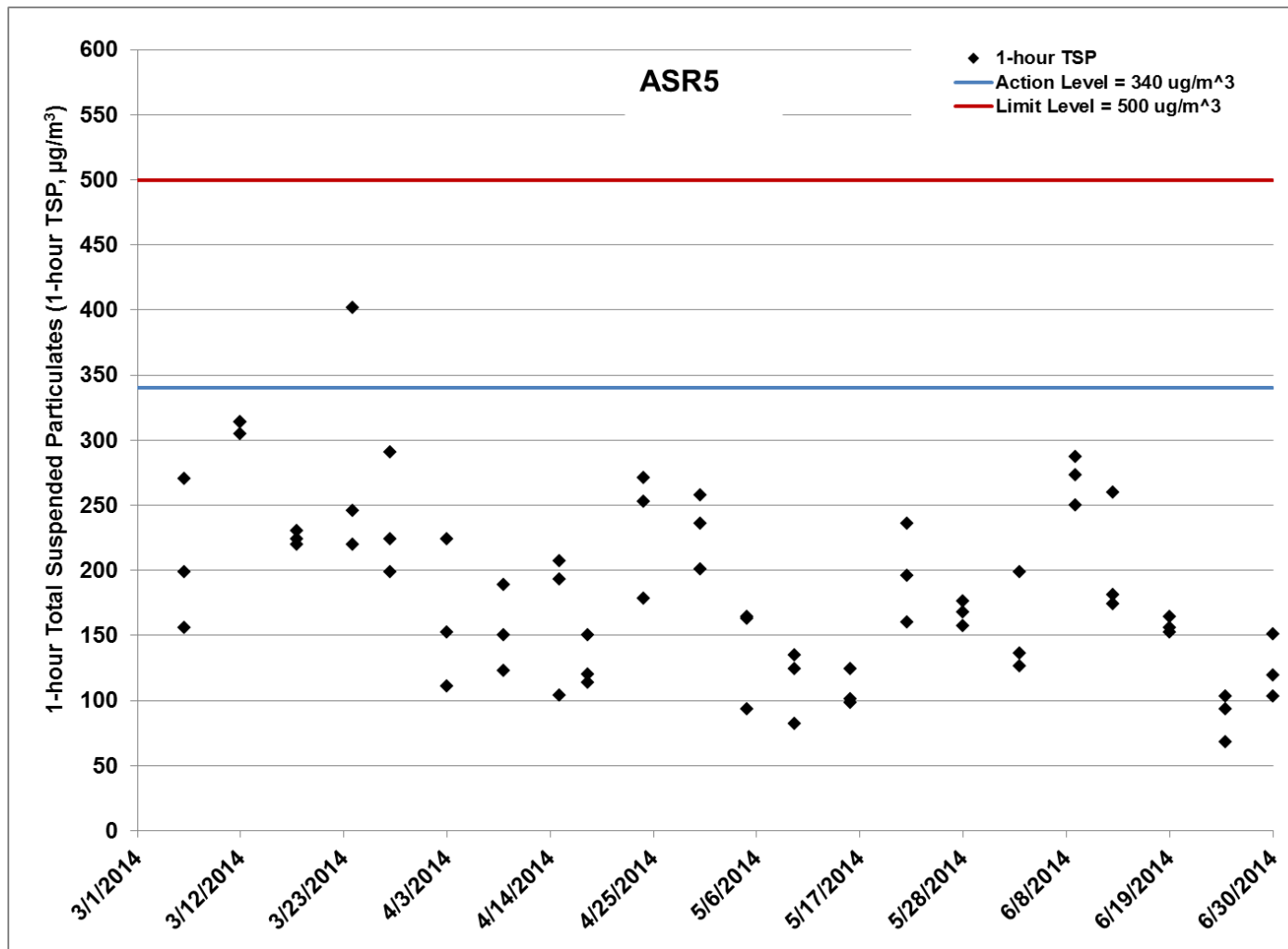


Figure G.4 Impact Monitoring - 1-hour Total Suspended Particulates ( $\mu\text{g}/\text{m}^3$ ) at ASR5 between 1 March 2014 and 30 June 2014 during impact monitoring period. The weather conditions during the monitoring period varied from sunny to cloudy. Major land-based construction activities included: Diaphragm Wall Construction at Reclamation Area - Portion N-A (14/5/2014 - 30/6/2014) & Construction of CLP Temporary Substation at N6 (1/3/2014 - 30/6/2014)

Ref: 0212330\_Impact AQM graphs\_Jun 2014\_REV a.xlsx



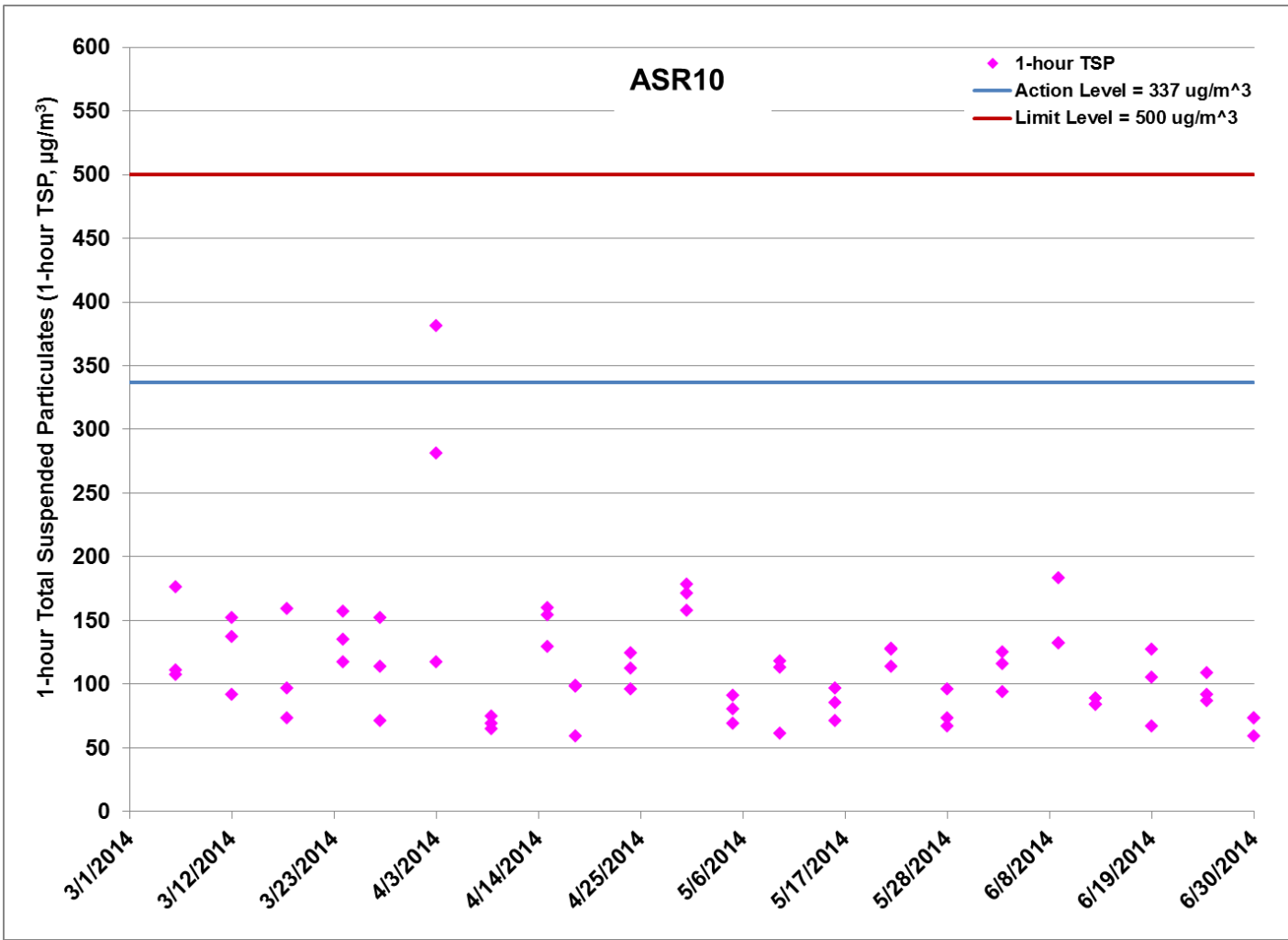


Figure G.5 Impact Monitoring - 1-hour Total Suspended Particulates ( $\mu\text{g}/\text{m}^3$ ) at ASR10 between 1 March 2014 and 30 June 2014 during impact monitoring period. The weather conditions during the monitoring period varied from sunny to cloudy. Major land-based construction activities included: Diaphragm Wall Construction at Reclamation Area - Portion N-A (14/5/2014 - 30/6/2014) & Construction of CLP Temporary Substation at N6 (1/3/2014 - 30/6/2014)

Ref: 0212330\_Impact AQM graphs\_Jun 2014\_REV a.xlsx



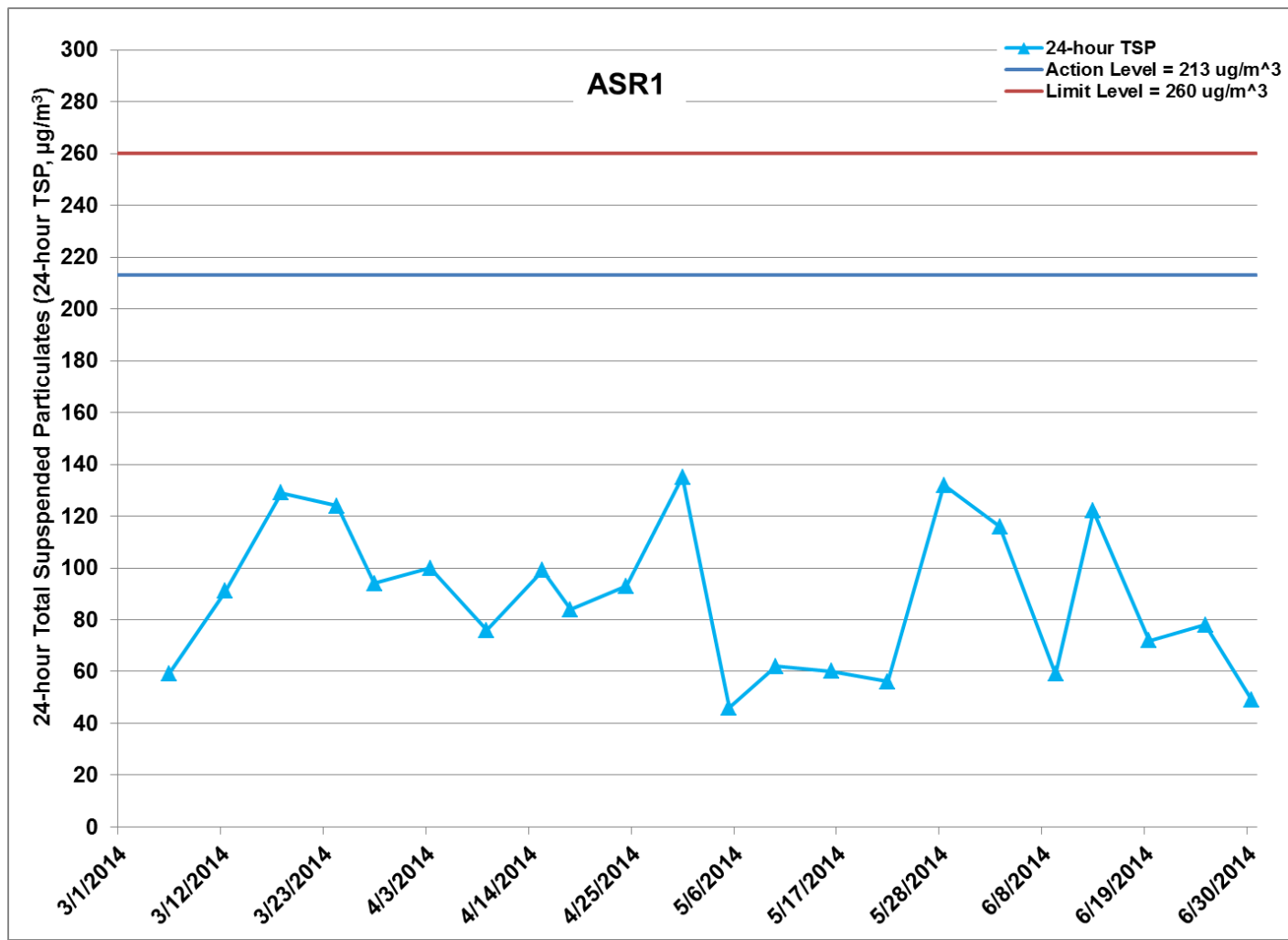


Figure G.6 Impact Monitoring - 24-hour Total Suspended Particulates ( $\mu\text{g}/\text{m}^3$ ) at ASR1 between 1 March 2014 and 30 June 2014 during impact monitoring period. The weather conditions during the monitoring period varied from sunny to cloudy. Major land-based construction activities included: Diaphragm Wall Construction at Reclamation Area - Portion N-A (14/5/2014 - 30/6/2014) & Construction of CLP Temporary Substation at N6 (1/3/2014 - 30/6/2014)

Ref: 0212330\_Impact AQM graphs\_Jun 2014\_REV a.xlsx



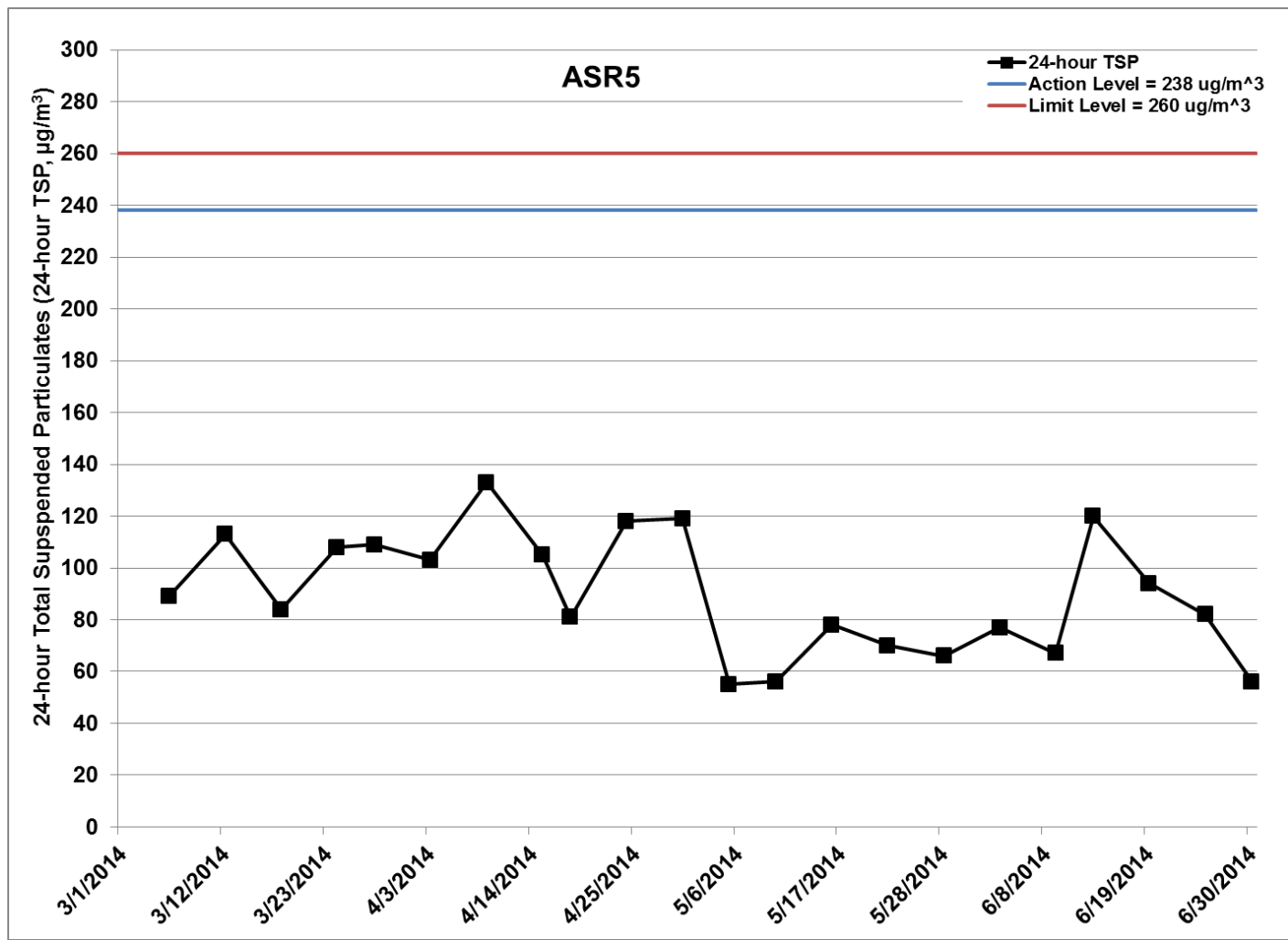


Figure G.7 Impact Monitoring - 24-hour Total Suspended Particulates ( $\mu\text{g}/\text{m}^3$ ) at ASR5 between 1 March 2014 and 30 June 2014 during impact monitoring period. The weather conditions during the monitoring period varied from sunny to cloudy. Major land-based construction activities included: Diaphragm Wall Construction at Reclamation Area - Portion N-A (14/5/2014 - 30/6/2014) & Construction of CLP Temporary Substation at N6 (1/3/2014 - 30/6/2014)

Ref: 0212330\_Impact AQM graphs\_Jun 2014\_REV a.xlsx



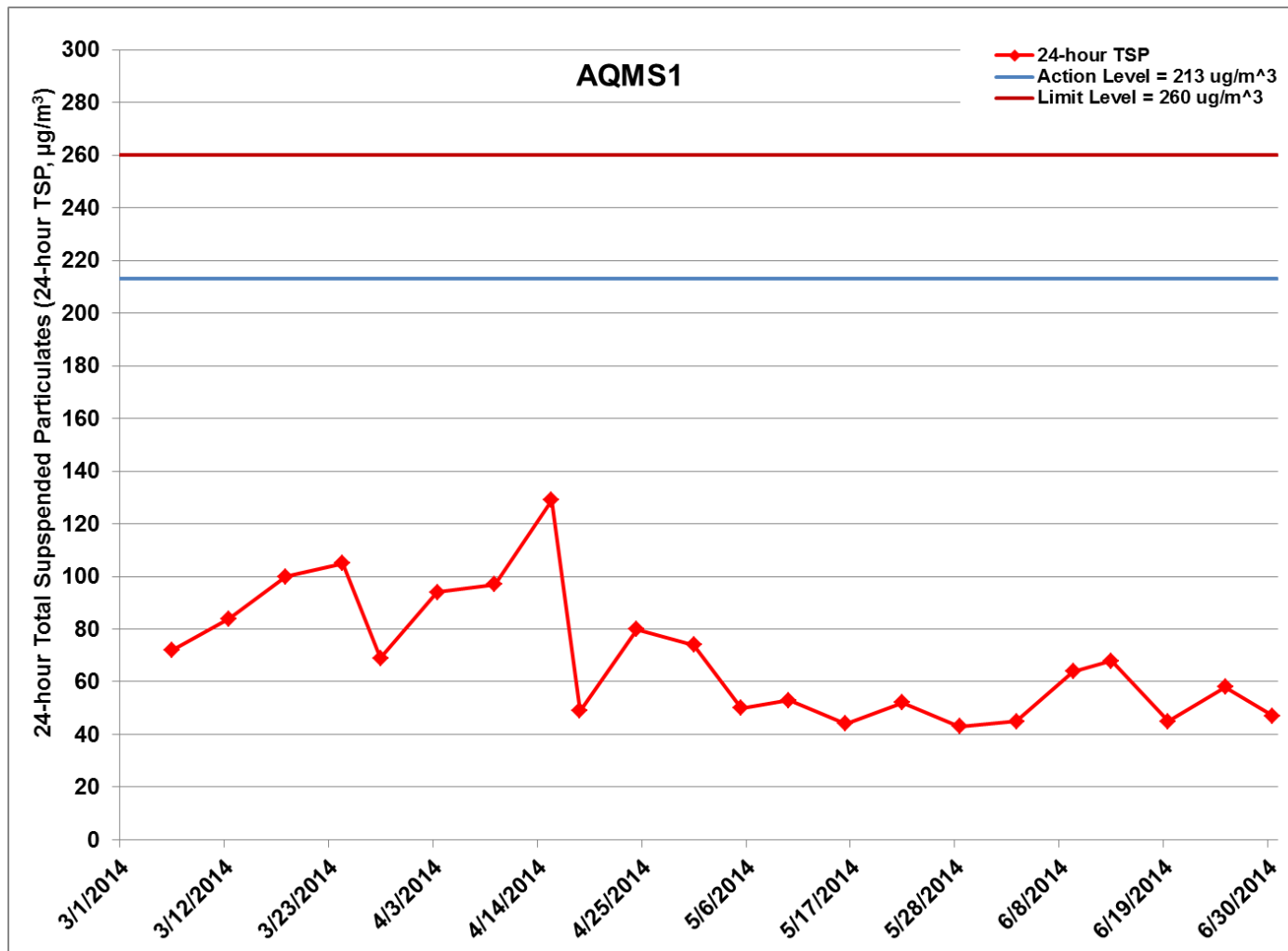


Figure G.8 Impact Monitoring - 24-hour Total Suspended Particulates ( $\mu\text{g}/\text{m}^3$ ) at AQMS1 between 1 March 2014 and 30 June 2014 during impact monitoring period. The weather conditions during the monitoring period varied from sunny to cloudy. Major land-based construction activities included: Diaphragm Wall Construction at Reclamation Area - Portion N-A (14/5/2014 - 30/6/2014) & Construction of CLP Temporary Substation at N6 (1/3/2014 - 30/6/2014)

Ref: 0212330\_Impact AQM graphs\_Jun 2014\_REV a.xlsx



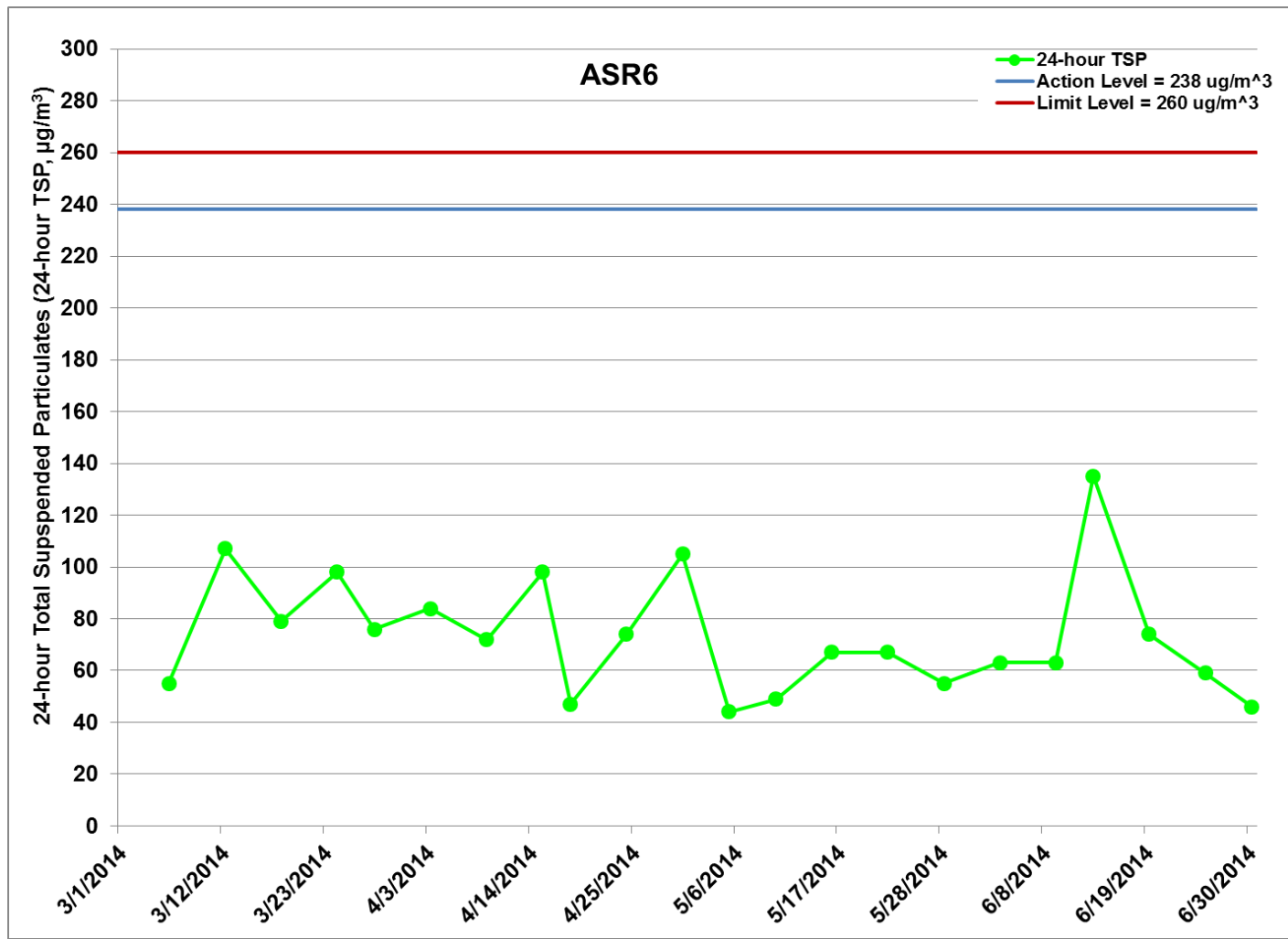


Figure G.9 Impact Monitoring - 24-hour Total Suspended Particulates ( $\mu\text{g}/\text{m}^3$ ) at ASR6 between 1 March 2014 and 30 June 2014 during impact monitoring period. The weather conditions during the monitoring period varied from sunny to cloudy. Major land-based construction activities included: Diaphragm Wall Construction at Reclamation Area - Portion N-A (14/5/2014 - 30/6/2014) & Construction of CLP Temporary Substation at N6 (1/3/2014 - 30/6/2014)

Ref: 0212330\_Impact AQM graphs\_Jun 2014\_REV a.xlsx





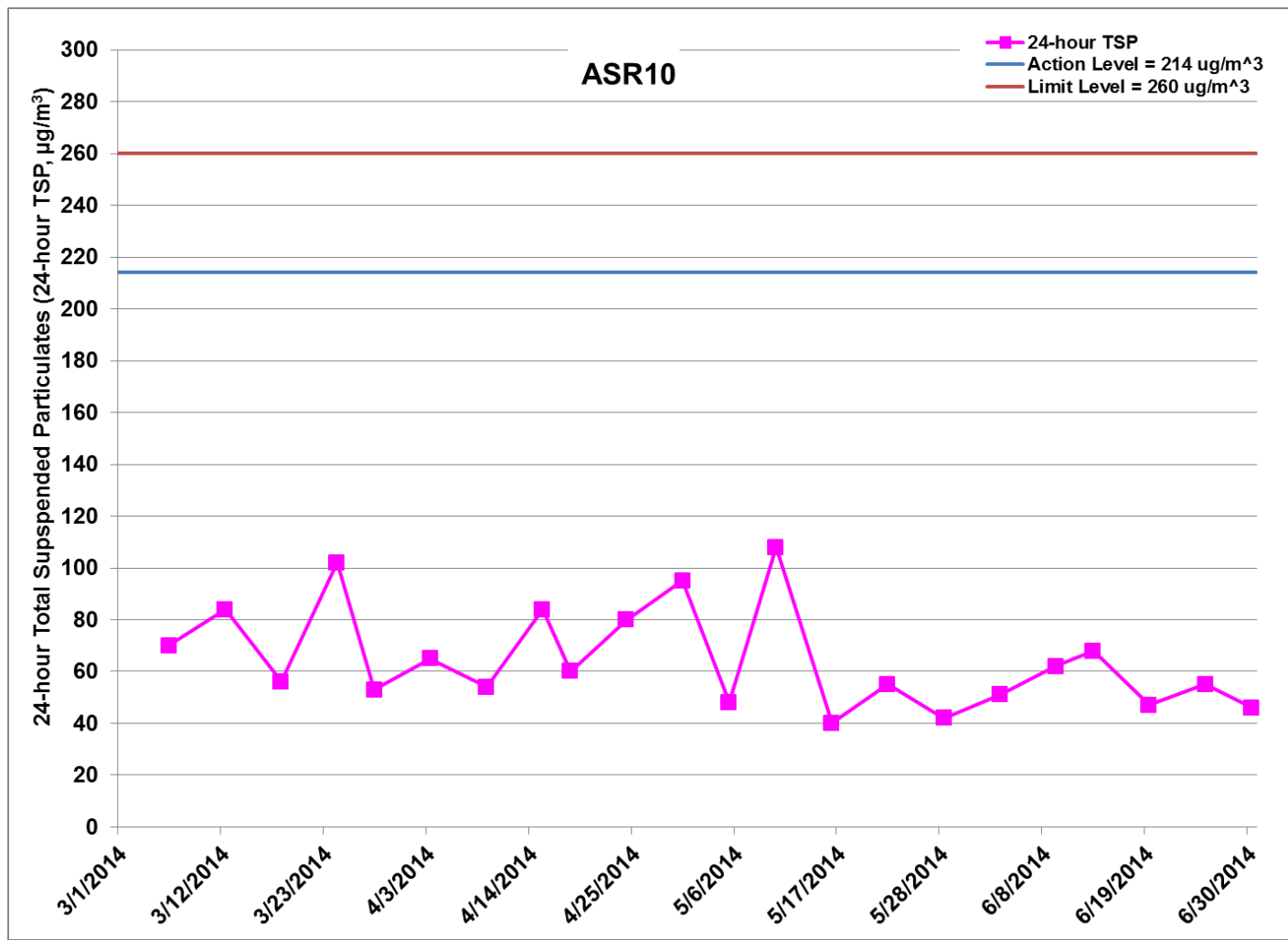


Figure G.10 Impact Monitoring - 24-hour Total Suspended Particulates ( $\mu\text{g}/\text{m}^3$ ) at ASR10 between 1 March 2014 and 30 June 2014 during impact monitoring period. The weather conditions during the monitoring period varied from sunny to cloudy. Major land-based construction activities included: Diaphragm Wall Construction at Reclamation Area - Portion N-A (14/5/2014 - 30/6/2014) & Construction of CLP Temporary Substation at N6 (1/3/2014 - 30/6/2014)

Ref: 0212330\_Impact AQM graphs\_Jun 2014\_REV a.xlsx



Project	Works	Date	Station	Weather	Start time	Parameters	Results	units
TMCLKL	HY/2012/08	2014-06-03	ASR10	Sunny	12:12	1-hour TSP	94	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-03	ASR10	Sunny	13:14	1-hour TSP	125	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-03	ASR10	Sunny	14:16	1-hour TSP	116	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-03	ASR6	Sunny	12:23	1-hour TSP	119	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-03	ASR6	Sunny	13:25	1-hour TSP	174	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-03	ASR6	Sunny	14:27	1-hour TSP	93	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-03	ASR5	Sunny	12:33	1-hour TSP	126	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-03	ASR5	Sunny	13:35	1-hour TSP	199	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-03	ASR5	Sunny	14:37	1-hour TSP	136	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-03	ASR1	Sunny	12:45	1-hour TSP	276	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-03	ASR1	Sunny	13:47	1-hour TSP	321	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-03	ASR1	Sunny	14:49	1-hour TSP	189	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-03	AQMS1	Sunny	12:56	1-hour TSP	104	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-03	AQMS1	Sunny	13:58	1-hour TSP	115	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-03	AQMS1	Sunny	15:00	1-hour TSP	91	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-09	ASR10	Sunny	12:22	1-hour TSP	132	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-09	ASR10	Sunny	13:24	1-hour TSP	183	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-09	ASR10	Sunny	14:26	1-hour TSP	132	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-09	ASR6	Sunny	12:33	1-hour TSP	110	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-09	ASR6	Sunny	13:35	1-hour TSP	93	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-09	ASR6	Sunny	14:37	1-hour TSP	96	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-09	ASR5	Sunny	12:43	1-hour TSP	287	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-09	ASR5	Sunny	13:45	1-hour TSP	273	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-09	ASR5	Sunny	14:47	1-hour TSP	250	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-09	AQMS1	Sunny	13:06	1-hour TSP	148	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-09	AQMS1	Sunny	14:08	1-hour TSP	100	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-09	AQMS1	Sunny	15:10	1-hour TSP	106	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-09	ASR1	Sunny	12:55	1-hour TSP	123	ug/m <sup>3</sup>

Project	Works	Date	Station	Weather	Start time	Parameters	Results	units
TMCLKL	HY/2012/08	2014-06-09	ASR1	Sunny	13:57	1-hour TSP	92	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-09	ASR1	Sunny	14:59	1-hour TSP	112	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-13	ASR10	Sunny	12:48	1-hour TSP	89	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-13	ASR10	Sunny	13:50	1-hour TSP	84	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-13	ASR10	Sunny	14:52	1-hour TSP	84	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-13	ASR6	Sunny	12:59	1-hour TSP	113	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-13	ASR6	Sunny	14:01	1-hour TSP	108	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-13	ASR6	Sunny	15:03	1-hour TSP	165	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-13	ASR5	Sunny	13:10	1-hour TSP	181	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-13	ASR5	Sunny	14:12	1-hour TSP	174	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-13	ASR5	Sunny	15:14	1-hour TSP	260	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-13	ASR1	Sunny	13:21	1-hour TSP	160	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-13	ASR1	Sunny	14:23	1-hour TSP	152	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-13	ASR1	Sunny	15:25	1-hour TSP	130	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-13	AQMS1	Sunny	13:32	1-hour TSP	113	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-13	AQMS1	Sunny	14:34	1-hour TSP	94	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-13	AQMS1	Sunny	15:36	1-hour TSP	89	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-19	AQMS1	Sunny	13:55	1-hour TSP	114	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-19	AQMS1	Sunny	14:57	1-hour TSP	99	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-19	AQMS1	Sunny	15:59	1-hour TSP	100	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-19	ASR1	Sunny	13:45	1-hour TSP	152	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-19	ASR1	Sunny	14:47	1-hour TSP	134	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-19	ASR1	Sunny	15:49	1-hour TSP	177	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-19	ASR5	Sunny	13:33	1-hour TSP	164	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-19	ASR5	Sunny	14:35	1-hour TSP	156	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-19	ASR5	Sunny	15:37	1-hour TSP	152	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-19	ASR6	Sunny	13:21	1-hour TSP	137	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-19	ASR6	Sunny	14:23	1-hour TSP	112	ug/m <sup>3</sup>

Project	Works	Date	Station	Weather	Start time	Parameters	Results	units
TMCLKL	HY/2012/08	2014-06-19	ASR6	Sunny	15:25	1-hour TSP	169	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-19	ASR10	Sunny	13:10	1-hour TSP	105	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-19	ASR10	Sunny	14:12	1-hour TSP	127	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-19	ASR10	Sunny	15:14	1-hour TSP	67	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-25	ASR10	Sunny	13:40	1-hour TSP	109	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-25	ASR10	Sunny	14:42	1-hour TSP	92	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-25	ASR10	Sunny	15:44	1-hour TSP	87	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-25	AQMS1	Sunny	14:25	1-hour TSP	63	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-25	AQMS1	Sunny	15:27	1-hour TSP	69	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-25	AQMS1	Sunny	16:29	1-hour TSP	75	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-25	ASR1	Sunny	14:13	1-hour TSP	114	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-25	ASR1	Sunny	15:15	1-hour TSP	102	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-25	ASR1	Sunny	16:17	1-hour TSP	115	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-25	ASR5	Sunny	14:02	1-hour TSP	103	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-25	ASR5	Sunny	15:04	1-hour TSP	68	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-25	ASR5	Sunny	16:06	1-hour TSP	93	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-25	ASR6	Sunny	13:51	1-hour TSP	104	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-25	ASR6	Sunny	14:53	1-hour TSP	70	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-25	ASR6	Sunny	15:55	1-hour TSP	69	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-03	ASR10	Sunny	15:18	24-hour TSP	51	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-03	ASR6	Sunny	15:29	24-hour TSP	63	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-03	ASR5	Sunny	15:39	24-hour TSP	77	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-03	ASR1	Sunny	15:51	24-hour TSP	116	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-03	AQMS1	Sunny	16:02	24-hour TSP	45	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-09	ASR10	Sunny	15:28	24-hour TSP	62	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-09	ASR6	Sunny	15:39	24-hour TSP	63	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-09	ASR5	Sunny	15:49	24-hour TSP	67	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-09	AQMS1	Sunny	16:12	24-hour TSP	64	ug/m <sup>3</sup>

Project	Works	Date	Station	Weather	Start time	Parameters	Results	units
TMCLKL	HY/2012/08	2014-06-09	ASR1	Sunny	16:01	24-hour TSP	59	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-13	ASR10	Sunny	15:54	24-hour TSP	68	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-13	ASR6	Sunny	16:05	24-hour TSP	135	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-13	ASR5	Sunny	16:16	24-hour TSP	120	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-13	ASR1	Sunny	16:27	24-hour TSP	122	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-13	AQMS1	Sunny	16:38	24-hour TSP	68	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-19	AQMS1	Sunny	17:01	24-hour TSP	45	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-19	ASR1	Sunny	16:51	24-hour TSP	72	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-19	ASR5	Sunny	16:39	24-hour TSP	94	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-19	ASR6	Sunny	16:27	24-hour TSP	74	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-19	ASR10	Sunny	16:16	24-hour TSP	47	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-25	ASR10	Sunny	16:46	24-hour TSP	55	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-25	AQMS1	Sunny	17:31	24-hour TSP	58	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-25	ASR1	Sunny	17:19	24-hour TSP	78	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-25	ASR5	Sunny	17:08	24-hour TSP	82	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-25	ASR6	Sunny	16:57	24-hour TSP	59	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-30	ASR10	Sunny	12:27	1-hour TSP	73	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-30	ASR10	Sunny	13:29	1-hour TSP	59	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-30	ASR10	Sunny	14:31	1-hour TSP	73	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-30	ASR6	Sunny	12:38	1-hour TSP	76	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-30	ASR6	Sunny	13:40	1-hour TSP	61	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-30	ASR6	Sunny	14:42	1-hour TSP	70	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-30	ASR5	Sunny	12:49	1-hour TSP	151	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-30	ASR5	Sunny	13:51	1-hour TSP	119	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-30	ASR5	Sunny	14:53	1-hour TSP	103	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-30	ASR1	Sunny	13:02	1-hour TSP	100	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-30	ASR1	Sunny	14:04	1-hour TSP	85	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-30	ASR1	Sunny	15:06	1-hour TSP	83	ug/m <sup>3</sup>

<b>Project</b>	<b>Works</b>	<b>Date</b>	<b>Station</b>	<b>Weather</b>	<b>Start time</b>	<b>Parameters</b>	<b>Results</b>	<b>units</b>
TMCLKL	HY/2012/08	2014-06-30	AQMS1	Sunny	13:13	1-hour TSP	75	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-30	AQMS1	Sunny	14:15	1-hour TSP	69	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-30	AQMS1	Sunny	15:17	1-hour TSP	85	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-30	ASR10	Sunny	15:33	24-hour TSP	46	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-30	ASR6	Sunny	15:44	24-hour TSP	46	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-30	ASR5	Sunny	15:55	24-hour TSP	56	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-30	ASR1	Sunny	16:08	24-hour TSP	49	ug/m <sup>3</sup>
TMCLKL	HY/2012/08	2014-06-30	AQMS1	Sunny	16:19	24-hour TSP	47	ug/m <sup>3</sup>

Appendix H

## Meteorological Data

<b>Meteorological Data for Impact Monitoring in the reporting period</b>			
<b>Date</b>	<b>Time (24hrs)</b>	<b>Average of Wind Direction (degree)</b>	<b>Average of Wind Speed (m/s)</b>
03-06-2014	0:00	222	0.98
03-06-2014	1:00	231	1.04
03-06-2014	2:00	229	1.05
03-06-2014	3:00	203	0.68
03-06-2014	4:00	208	0.74
03-06-2014	5:00	202	0.63
03-06-2014	6:00	203	0.78
03-06-2014	7:00	216	0.95
03-06-2014	8:00	222	0.91
03-06-2014	9:00	227	1.08
03-06-2014	10:00	234	1.32
03-06-2014	11:00	233	1.20
03-06-2014	12:00	232	1.04
03-06-2014	13:00	229	1.24
03-06-2014	14:00	238	1.57
03-06-2014	15:00	226	1.32
03-06-2014	16:00	220	0.84
03-06-2014	17:00	222	0.60
03-06-2014	18:00	218	0.44
03-06-2014	19:00	209	0.40
03-06-2014	20:00	174	0.50
03-06-2014	21:00	194	0.53
03-06-2014	22:00	213	0.50
03-06-2014	23:00	211	0.54
04-06-2014	0:00	229	0.55
04-06-2014	1:00	218	0.37
04-06-2014	2:00	216	0.44
04-06-2014	3:00	256	0.42
04-06-2014	4:00	217	0.39
04-06-2014	5:00	194	0.37
04-06-2014	6:00	149	0.46
04-06-2014	7:00	198	0.71
04-06-2014	8:00	228	1.15
04-06-2014	9:00	244	1.59
04-06-2014	10:00	223	1.05
04-06-2014	11:00	218	1.26
04-06-2014	12:00	225	1.35
04-06-2014	13:00	230	1.84
04-06-2014	14:00	239	1.99
04-06-2014	15:00	234	2.01
04-06-2014	16:00	238	1.81
04-06-2014	17:00	236	1.52
04-06-2014	18:00	230	1.25
04-06-2014	19:00	209	0.70
04-06-2014	20:00	145	0.54
04-06-2014	21:00	159	0.50
04-06-2014	22:00	154	0.57
04-06-2014	23:00	109	1.04
19-06-2014	0:00	210	0.80
19-06-2014	1:00	211	0.76
19-06-2014	2:00	174	0.81



<b>Meteorological Data for Impact Monitoring in the reporting period</b>			
<b>Date</b>	<b>Time (24hrs)</b>	<b>Average of Wind Direction (degree)</b>	<b>Average of Wind Speed (m/s)</b>
19-06-2014	3:00	171	0.91
19-06-2014	4:00	250	0.74
19-06-2014	5:00	238	0.53
19-06-2014	6:00	238	0.59
19-06-2014	7:00	242	0.82
19-06-2014	8:00	96	2.39
19-06-2014	9:00	91	1.99
19-06-2014	10:00	104	1.54
19-06-2014	11:00	89	1.69
19-06-2014	12:00	90	2.16
19-06-2014	13:00	102	2.34
19-06-2014	14:00	103	2.73
19-06-2014	15:00	101	3.54
19-06-2014	16:00	177	0.81
19-06-2014	17:00	179	1.08
19-06-2014	18:00	164	1.04
19-06-2014	19:00	184	0.77
19-06-2014	20:00	170	0.77
19-06-2014	21:00	231	0.88
19-06-2014	22:00	232	0.82
19-06-2014	23:00	222	0.56
20-06-2014	0:00	222	0.75
20-06-2014	1:00	214	0.64
20-06-2014	2:00	240	1.09
20-06-2014	3:00	228	0.89
20-06-2014	4:00	234	1.18
20-06-2014	5:00	230	0.75
20-06-2014	6:00	193	0.99
20-06-2014	7:00	134	1.39
20-06-2014	8:00	101	1.34
20-06-2014	9:00	97	1.99
20-06-2014	10:00	152	1.47
20-06-2014	11:00	129	1.25
20-06-2014	12:00	100	1.33
20-06-2014	13:00	108	1.14
20-06-2014	14:00	138	0.82
20-06-2014	15:00	229	0.91
20-06-2014	16:00	166	0.77
20-06-2014	17:00	138	1.13
20-06-2014	18:00	135	1.18
20-06-2014	19:00	218	0.89
20-06-2014	20:00	220	0.96
20-06-2014	21:00	128	1.08
20-06-2014	22:00	161	0.78
20-06-2014	23:00	176	0.76
25-06-2014	0:00	209	0.57
25-06-2014	1:00	225	0.61
25-06-2014	2:00	261	0.79
25-06-2014	3:00	239	0.68
25-06-2014	4:00	280	0.87
25-06-2014	5:00	276	0.76

<b>Meteorological Data for Impact Monitoring in the reporting period</b>			
<b>Date</b>	<b>Time (24hrs)</b>	<b>Average of Wind Direction (degree)</b>	<b>Average of Wind Speed (m/s)</b>
25-06-2014	6:00	255	0.68
25-06-2014	7:00	233	1.20
25-06-2014	8:00	230	1.21
25-06-2014	9:00	234	1.98
25-06-2014	10:00	235	1.50
25-06-2014	11:00	233	1.32
25-06-2014	12:00	232	1.40
25-06-2014	13:00	231	1.81
25-06-2014	14:00	229	2.27
25-06-2014	15:00	232	2.09
25-06-2014	16:00	227	1.95
25-06-2014	17:00	228	1.44
25-06-2014	18:00	111	1.05
25-06-2014	19:00	138	0.90
25-06-2014	20:00	195	0.83
25-06-2014	21:00	118	0.76
25-06-2014	22:00	172	0.73
25-06-2014	23:00	155	0.62
26-06-2014	0:00	193	0.71
26-06-2014	1:00	259	0.59
26-06-2014	2:00	242	0.61
26-06-2014	3:00	252	0.58
26-06-2014	4:00	260	0.57
26-06-2014	5:00	285	0.58
26-06-2014	6:00	260	0.46
26-06-2014	7:00	236	0.66
26-06-2014	8:00	210	1.17
26-06-2014	9:00	256	1.29
26-06-2014	10:00	275	1.17
26-06-2014	11:00	240	1.59
26-06-2014	12:00	233	1.86
26-06-2014	13:00	205	0.97
26-06-2014	14:00	215	1.20
26-06-2014	15:00	232	1.29
26-06-2014	16:00	221	1.25
26-06-2014	17:00	200	0.95
26-06-2014	18:00	205	0.94
26-06-2014	19:00	127	1.17
26-06-2014	20:00	103	2.06
26-06-2014	21:00	98	1.93
26-06-2014	22:00	94	1.87
26-06-2014	23:00	155	0.78
30-06-2014	00:00	140	1.3
30-06-2014	00:30	90	1.3
30-06-2014	01:00	143	1.3
30-06-2014	01:30	130	2.2
30-06-2014	02:00	130	2.2
30-06-2014	02:30	120	3.1
30-06-2014	03:00	135	3.1
30-06-2014	03:30	130	3.6
30-06-2014	04:00	132	2.7

<b>Meteorological Data for Impact Monitoring in the reporting period</b>			
<b>Date</b>	<b>Time (24hrs)</b>	<b>Average of Wind Direction (degree)</b>	<b>Average of Wind Speed (m/s)</b>
30-06-2014	04:30	134	2.7
30-06-2014	05:00	135	3.1
30-06-2014	05:30	130	3.1
30-06-2014	06:00	170	2.7
30-06-2014	06:30	150	3.1
30-06-2014	07:00	160	3.1
30-06-2014	07:30	135	3.1
30-06-2014	08:00	136	2.7
30-06-2014	08:30	137	3.1
30-06-2014	09:00	172	3.1
30-06-2014	09:30	135	3.1
30-06-2014	10:00	134	2.7
30-06-2014	10:30	131	3.1
30-06-2014	11:00	129	3.1
30-06-2014	11:30	156	3.1
30-06-2014	12:00	124	2.7
30-06-2014	12:30	136	2.7
30-06-2014	13:00	125	3.1
30-06-2014	13:30	134	3.1
30-06-2014	14:00	133	2.7
30-06-2014	14:30	136	1.8
30-06-2014	15:00	132	2.7
30-06-2014	15:30	170	2.7
30-06-2014	16:00	160	2.2
30-06-2014	16:30	161	2.2
30-06-2014	17:00	175	2.7
30-06-2014	17:30	148	1.8
30-06-2014	18:00	166	1.3
30-06-2014	18:30	173	1.8
30-06-2014	19:00	138	2.2
30-06-2014	19:30	125	1.8
30-06-2014	20:00	141	1.3
30-06-2014	20:30	155	1.8
30-06-2014	21:00	132	1.8
30-06-2014	21:30	118	1.3
30-06-2014	22:00	117	0.4
30-06-2014	22:30	181	0.4
30-06-2014	23:00	135	2.2
30-06-2014	23:30	11	0
01-07-2014	00:00	45	0.4
01-07-2014	00:30	91	0
01-07-2014	01:00	101	0
01-07-2014	01:30	114	0.4
01-07-2014	02:00	131	0.9
01-07-2014	02:30	115	0.4
01-07-2014	03:00	121	0.9
01-07-2014	03:30	133	1.3
01-07-2014	04:00	126	1.3
01-07-2014	04:30	148	1.8
01-07-2014	05:00	147	2.7
01-07-2014	05:30	125	1.8

<b>Meteorological Data for Impact Monitoring in the reporting period</b>			
<b>Date</b>	<b>Time (24hrs)</b>	<b>Average of Wind Direction (degree)</b>	<b>Average of Wind Speed (m/s)</b>
01-07-2014	06:00	126	1.3
01-07-2014	06:30	134	0.4
01-07-2014	07:00	152	0.9
01-07-2014	07:30	48	0.9
01-07-2014	08:00	51	1.3
01-07-2014	08:30	110	0.4
01-07-2014	09:00	95	0.9
01-07-2014	09:30	93	1.3
01-07-2014	10:00	110	0.9
01-07-2014	10:30	128	0.9
01-07-2014	11:00	171	1.3
01-07-2014	11:30	181	1.8
01-07-2014	12:00	183	2.2
01-07-2014	12:30	189	1.8
01-07-2014	13:00	191	1.3
01-07-2014	13:30	165	2.2
01-07-2014	14:00	225	0.9
01-07-2014	14:30	221	0.4
01-07-2014	15:00	174	0.9
01-07-2014	15:30	194	2.7
01-07-2014	16:00	166	1.8
01-07-2014	16:30	185	1.8
01-07-2014	17:00	20	0
01-07-2014	17:30	10	0.4
01-07-2014	18:00	13	0
01-07-2014	18:30	356	0
01-07-2014	19:00	33	0.4
01-07-2014	19:30	32	0
01-07-2014	20:00	113	0
01-07-2014	20:30	115	0
01-07-2014	21:00	25	0.4
01-07-2014	21:30	22	0.9
01-07-2014	22:00	123	2.2
01-07-2014	22:30	120	2.2
01-07-2014	23:00	115	1.8
01-07-2014	23:30	141	2.2

**\*Note:**

No meteorological information was recorded by the wind anemometer between 9 and 14 June 2014 due to power failure.

Appendix I

## Impact Water Quality Monitoring Results

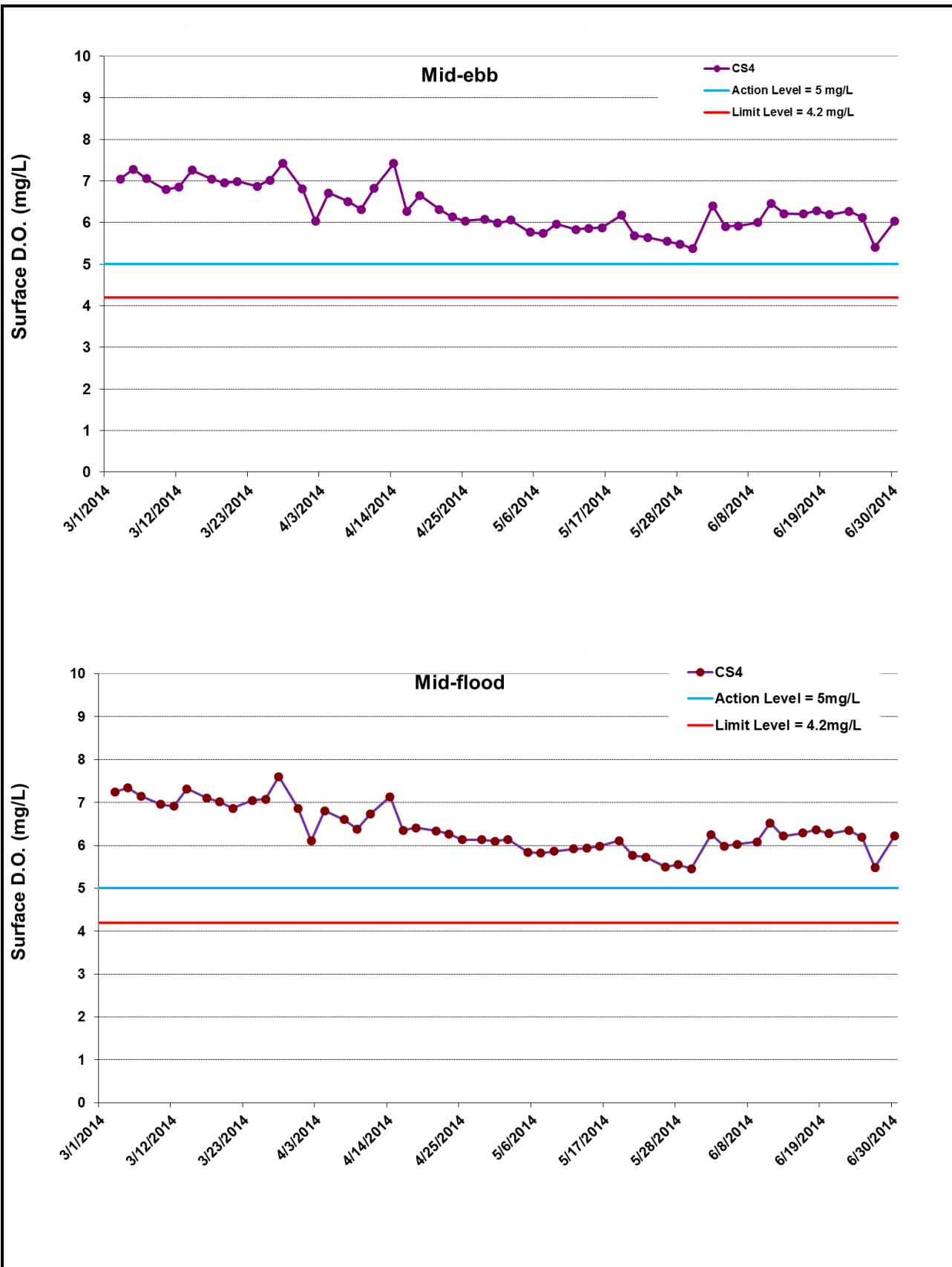


Figure I1 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in surface waters between 1 March 2014 and 30 June 2014 at CS4. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine construction activities included: Dredging (3/1/2014 - 6/30/2014); Construction of Temporary Seawalls (3/1/2013 - 6/30/2014); Sheet Piling (3/1/2014 - 6/30/2014); Filling (3/23/2014 - 6/30/2014).



Ref: 0212330\_Impact-WQM\_June2014\_graphs\_Rev a.xls

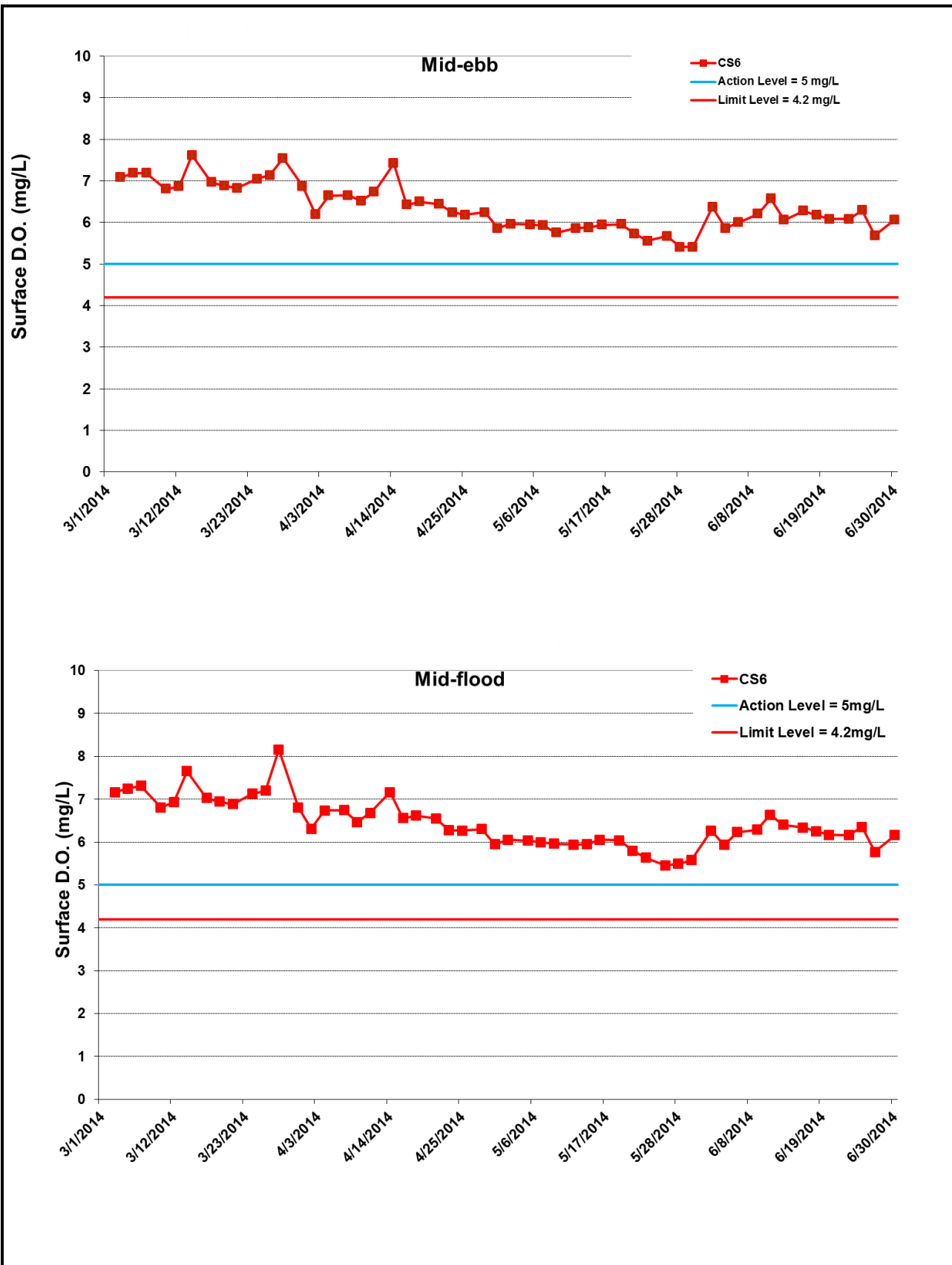
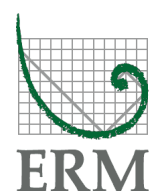


Figure I2 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in surface waters between 1 March 2014 and 30 June 2014 at CS6. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine construction activities included: Dredging (3/1/2014 - 6/30/2014); Construction of Temporary Seawalls (3/1/2013 - 6/30/2014); Sheet Piling (3/1/2014 - 6/30/2014); Filling (3/23/2014 - 6/30/2014).



Ref: 0212330\_Impact-WQM\_June2014\_graphs\_Rev a.xls

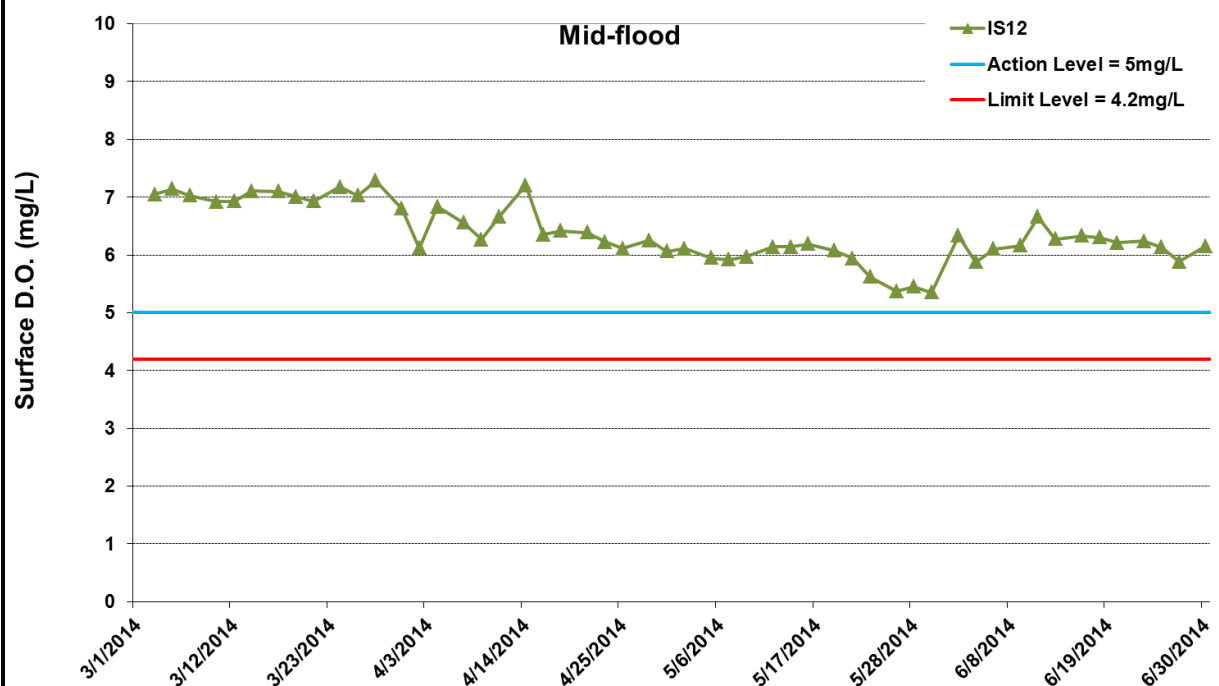
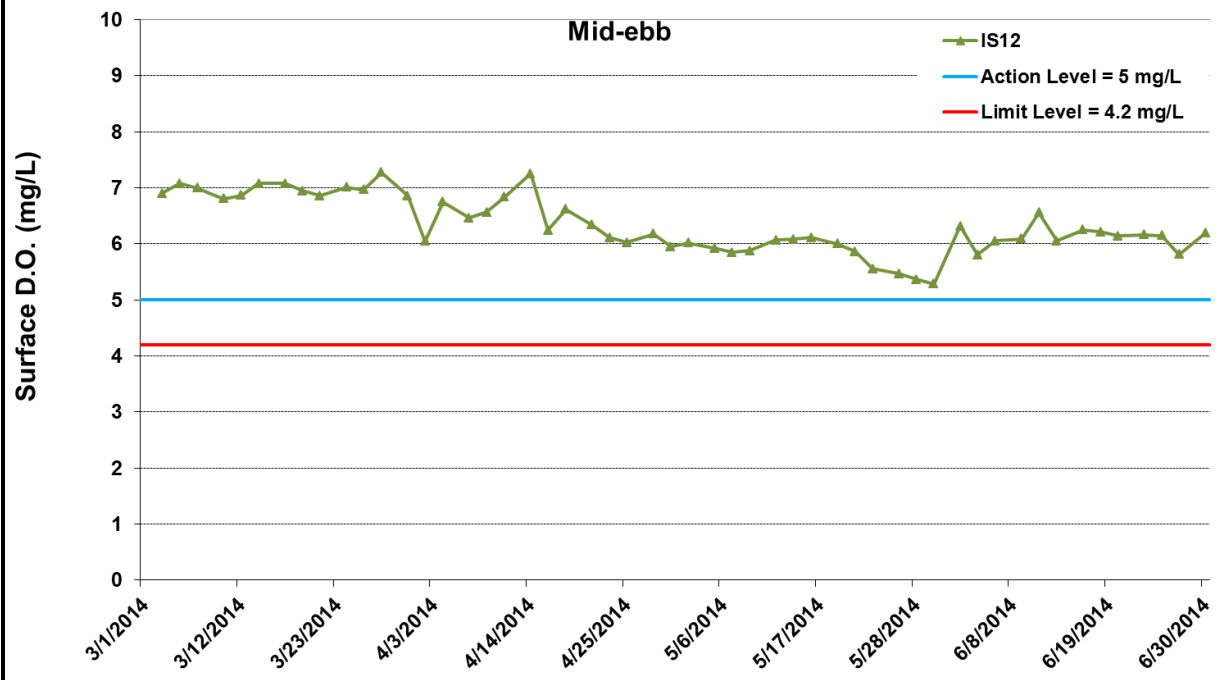


Figure I3 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in surface waters between 1 March 2014 and 30 June 2014 at IS12. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine construction activities included: Dredging (3/1/2014 - 6/30/2014); Construction of Temporary Seawalls (3/1/2013 - 6/30/2014); Sheet Piling (3/1/2014 - 6/30/2014); Filling (3/23/2014 - 6/30/2014).



Ref: 0212330\_Impact-WQM\_June2014\_graphs\_Rev a.xls



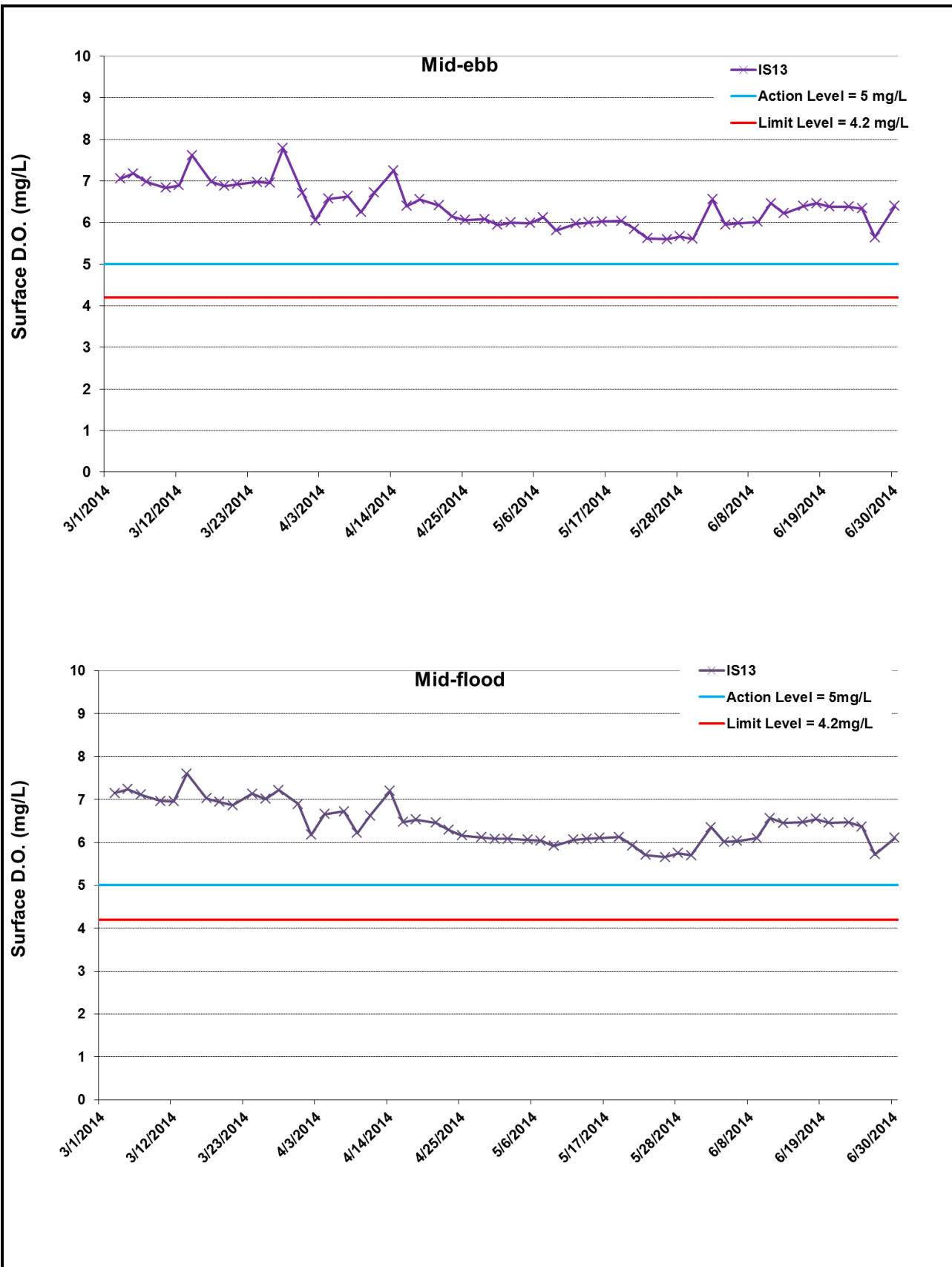


Figure I4 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in surface waters between 1 March 2014 and 30 June 2014 at IS13. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine construction activities included: Dredging (3/1/2014 - 6/30/2014); Construction of Temporary Seawalls (3/1/2013 - 6/30/2014); Sheet Piling (3/1/2014 - 6/30/2014); Filling (3/23/2014 - 6/30/2014).



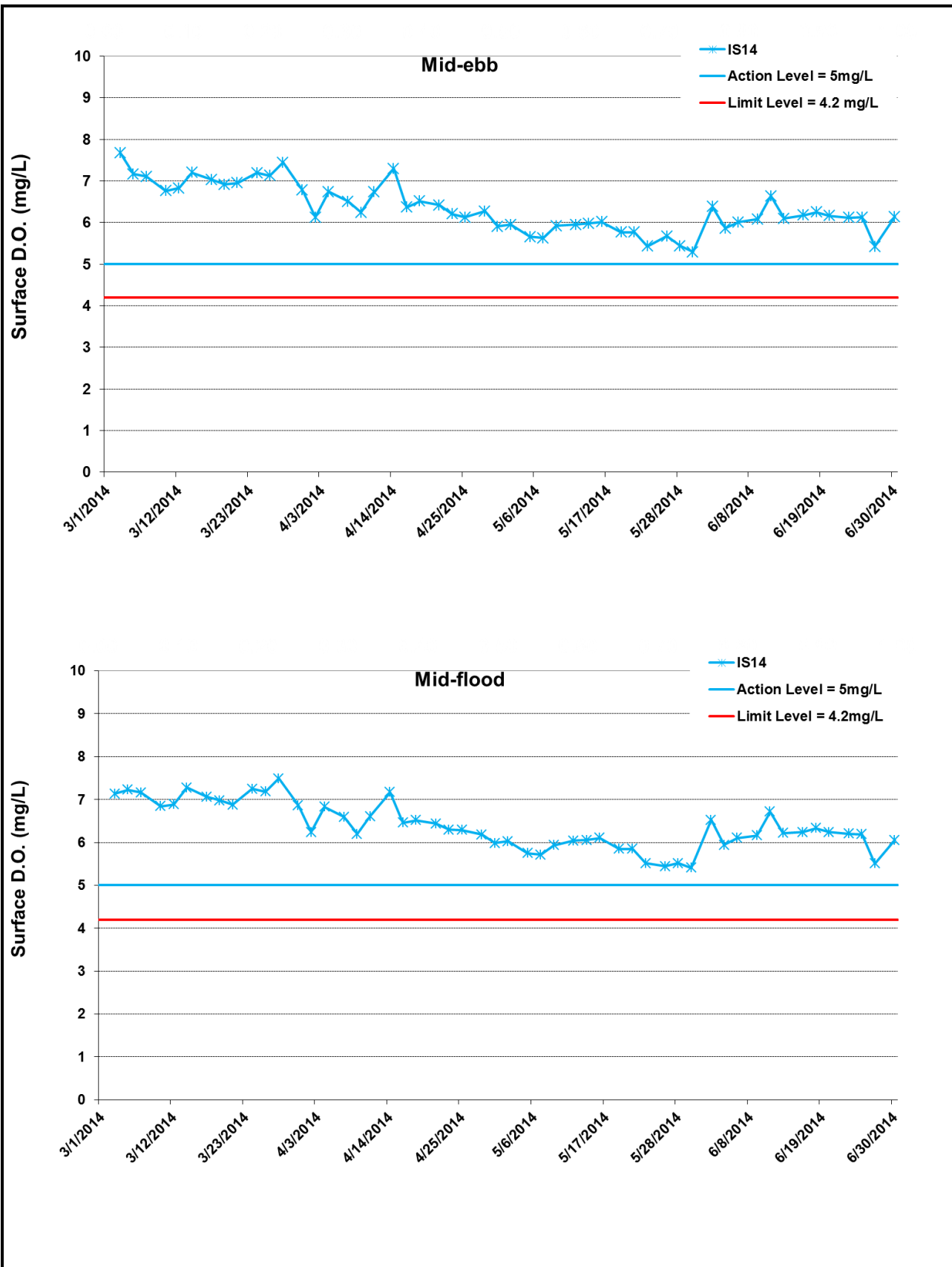


Figure I5 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in surface waters between 1 March 2014 and 30 June 2014 at IS14. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine construction activities included: Dredging (3/1/2014 - 6/30/2014); Construction of Temporary Seawalls (3/1/2013 - 6/30/2014); Sheet Piling (3/1/2014 - 6/30/2014); Filling (3/23/2014 - 6/30/2014).



Ref: 0212330\_Impact-WQM\_June2014\_graphs\_Rev a.xls

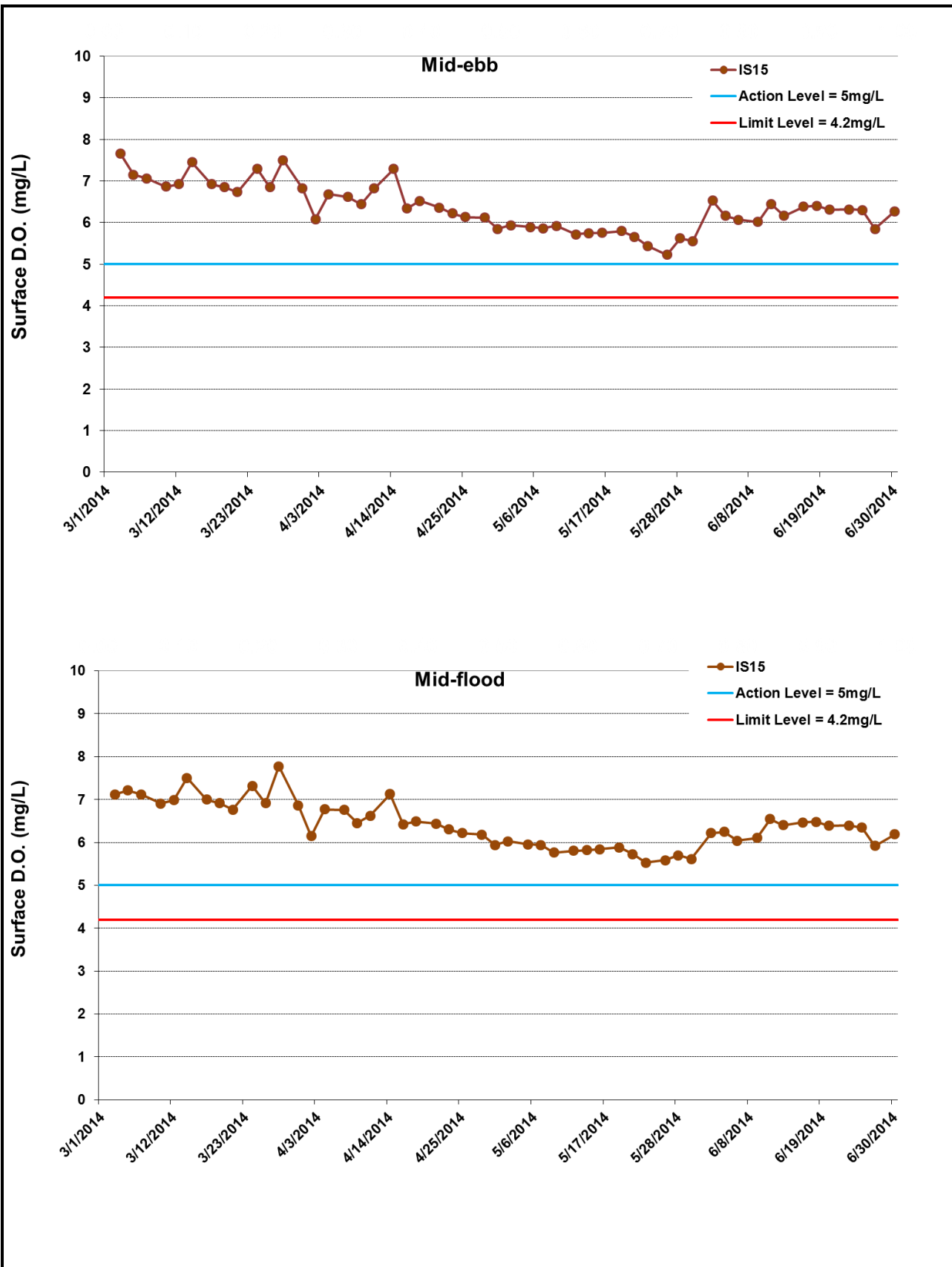
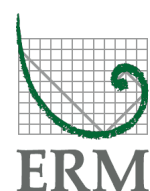


Figure I6 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in surface waters between 1 March 2014 and 30 June 2014 at IS15. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine construction activities included: Dredging (3/1/2014 - 6/30/2014); Construction of Temporary Seawalls (3/1/2013 - 6/30/2014); Sheet Piling (3/1/2014 - 6/30/2014); Filling (3/23/2014 - 6/30/2014).



Ref: 0212330\_Impact-WQM\_June2014\_graphs\_Rev a.xls

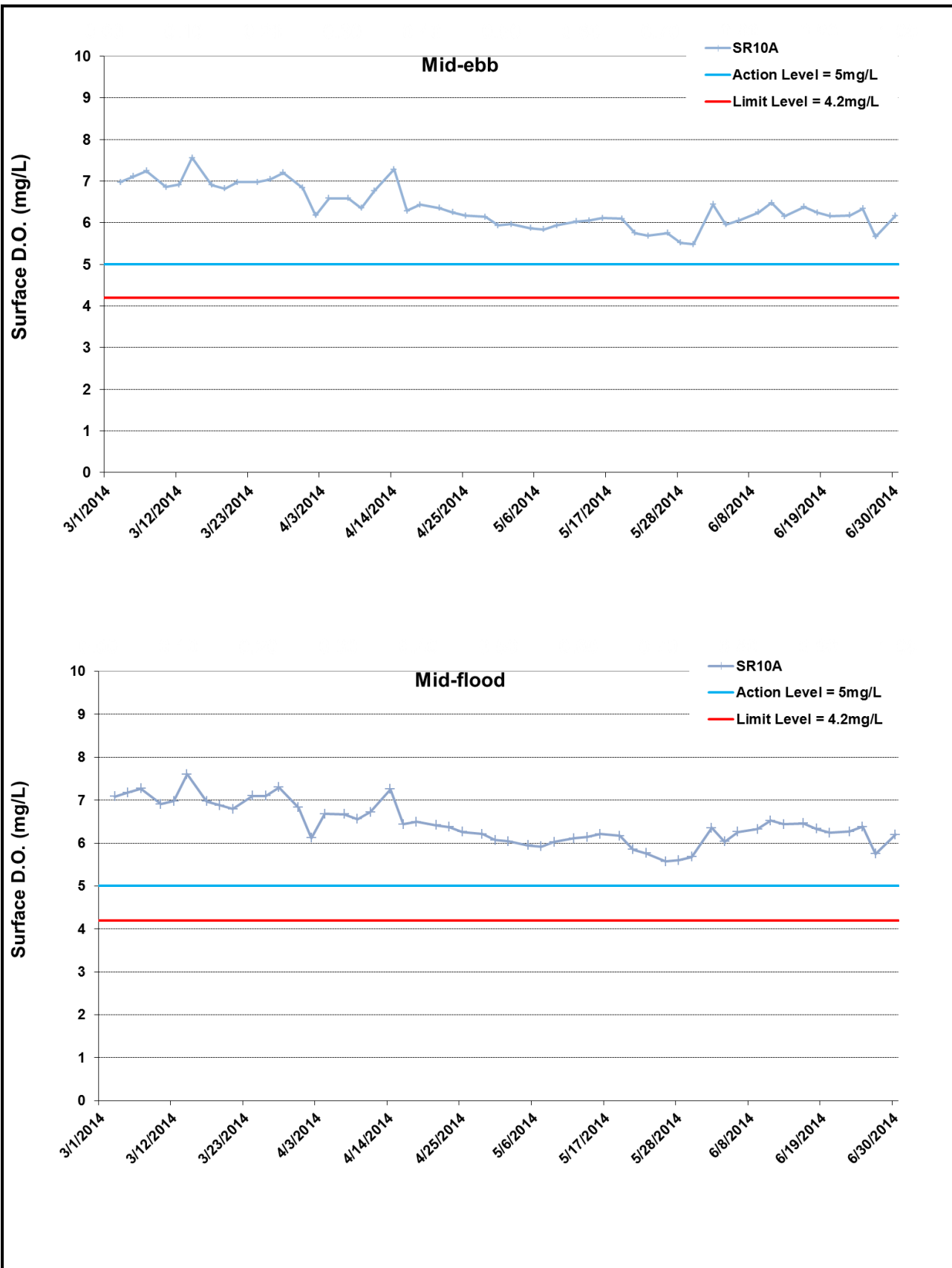


Figure I7 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in surface waters between 1 March 2014 and 30 June 2014 at SR10A. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine construction activities included: Dredging (3/1/2014 - 6/30/2014); Construction of Temporary Seawalls (3/1/2013 - 6/30/2014); Sheet Piling (3/1/2014 - 6/30/2014); Filling (3/23/2014 - 6/30/2014).



Ref: 0212330\_Impact-WQM\_June2014\_graphs\_Rev a.xls

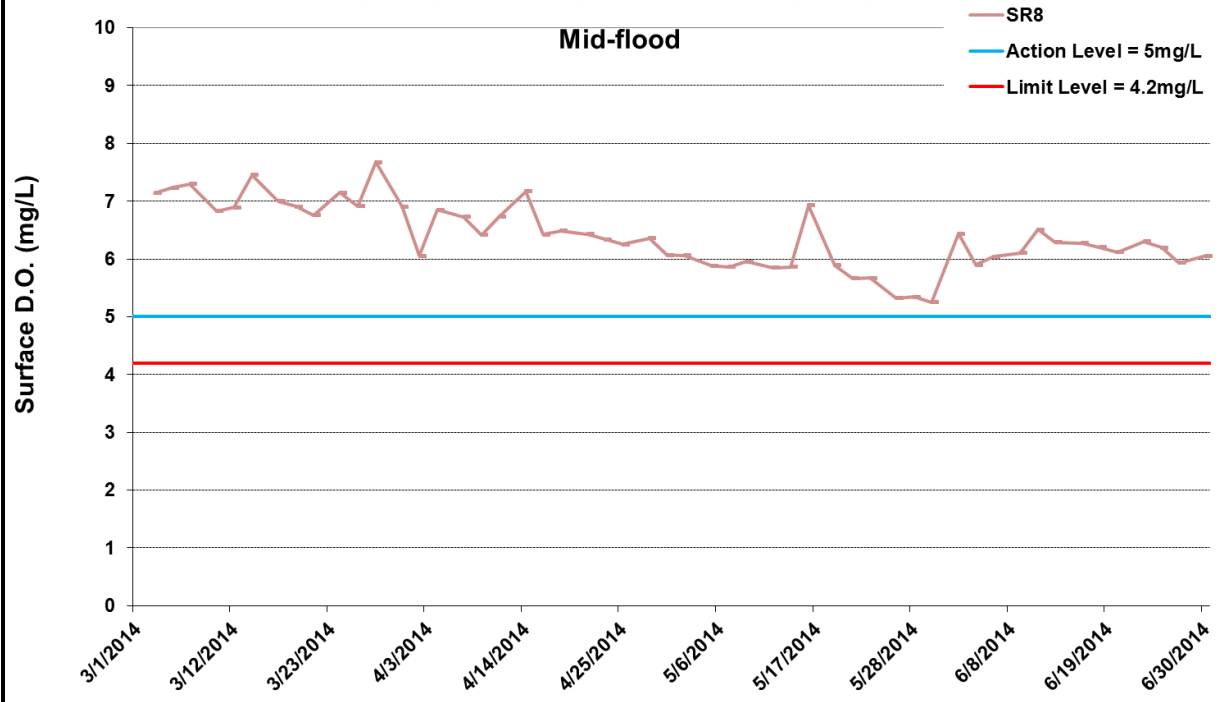
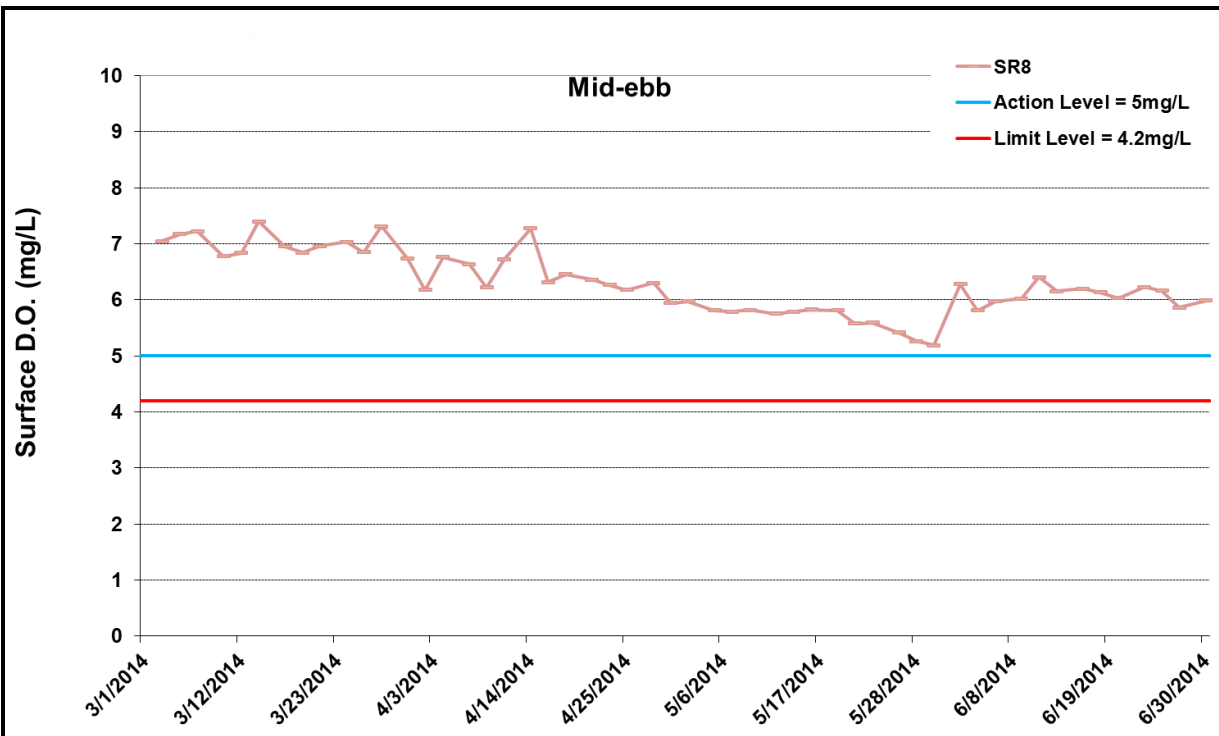
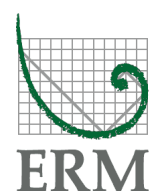


Figure I8 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in surface waters between 1 March 2014 and 30 June 2014 at SR8. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine construction activities included: Dredging (3/1/2014 - 6/30/2014); Construction of Temporary Seawalls (3/1/2013 - 6/30/2014); Sheet Piling (3/1/2014 - 6/30/2014); Filling (3/23/2014 - 6/30/2014).



Ref: 0212330\_Impact-WQM\_June2014\_graphs\_Rev a.xls

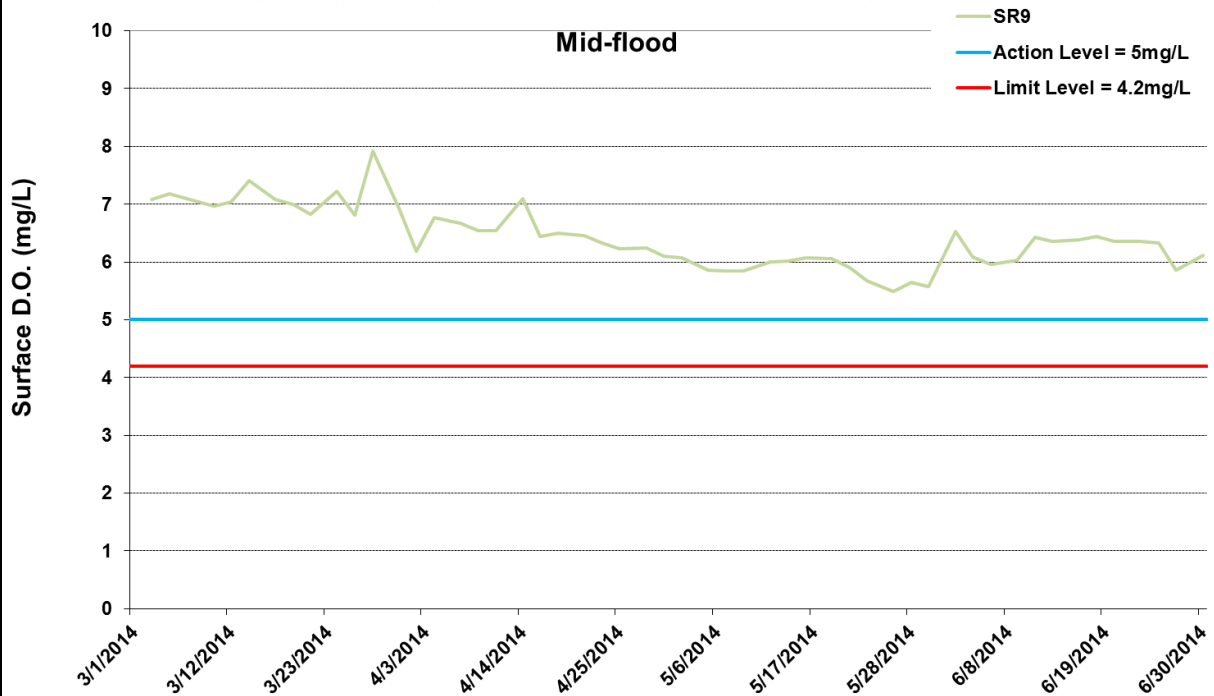
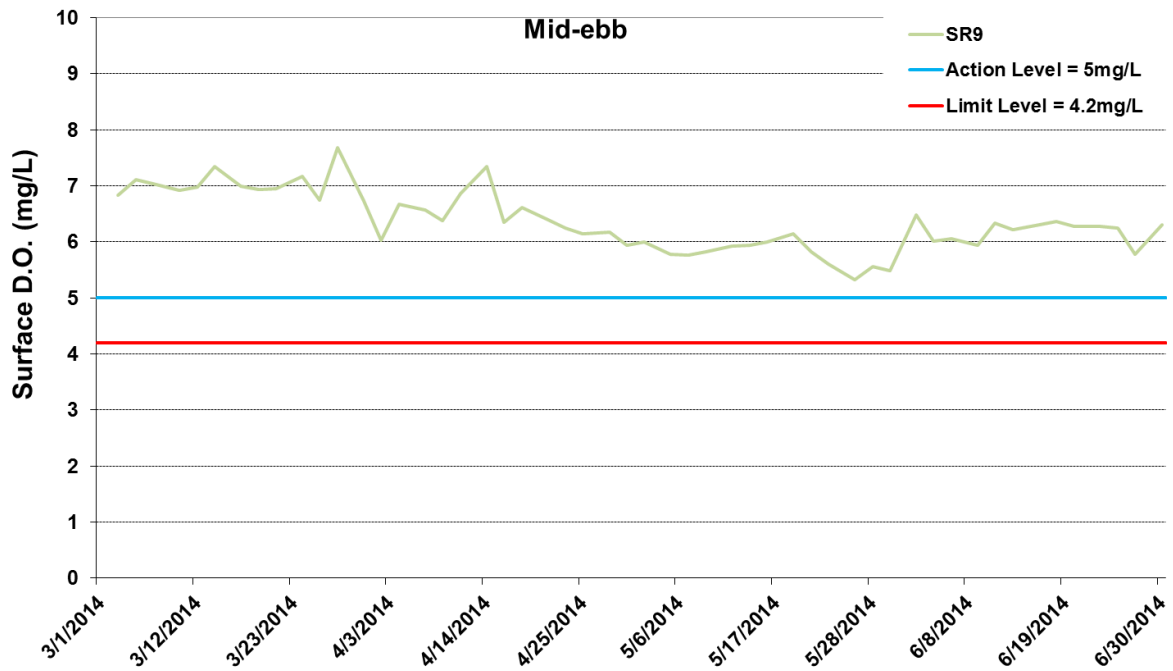
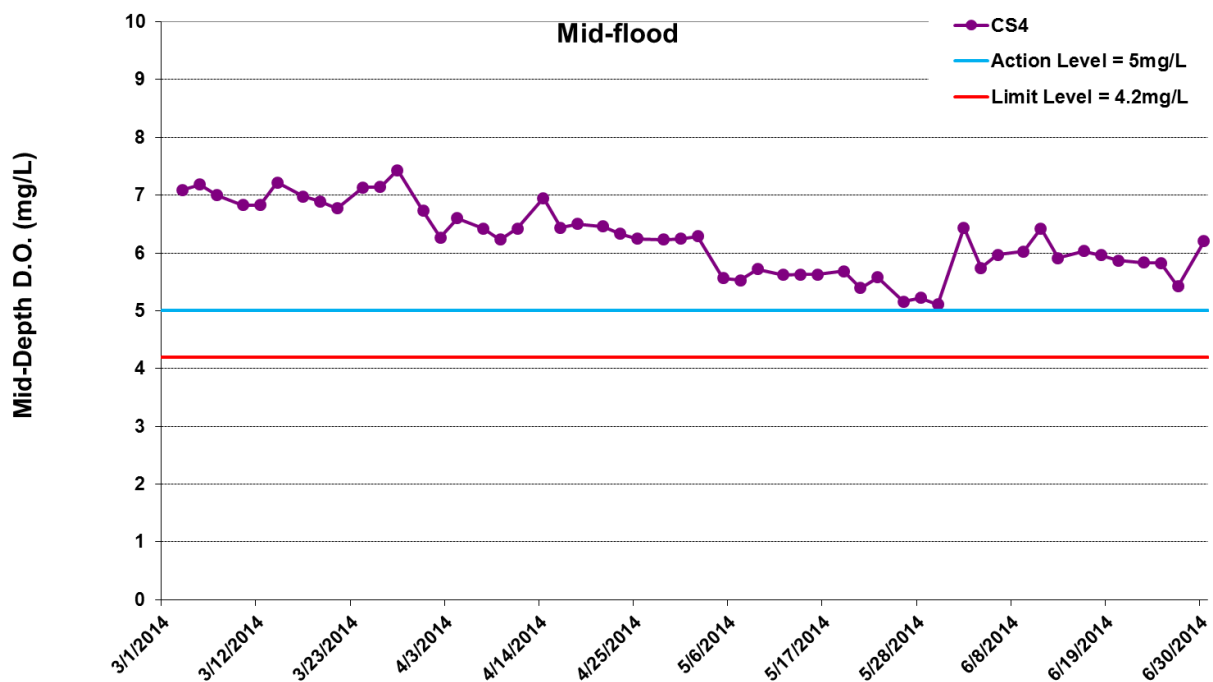
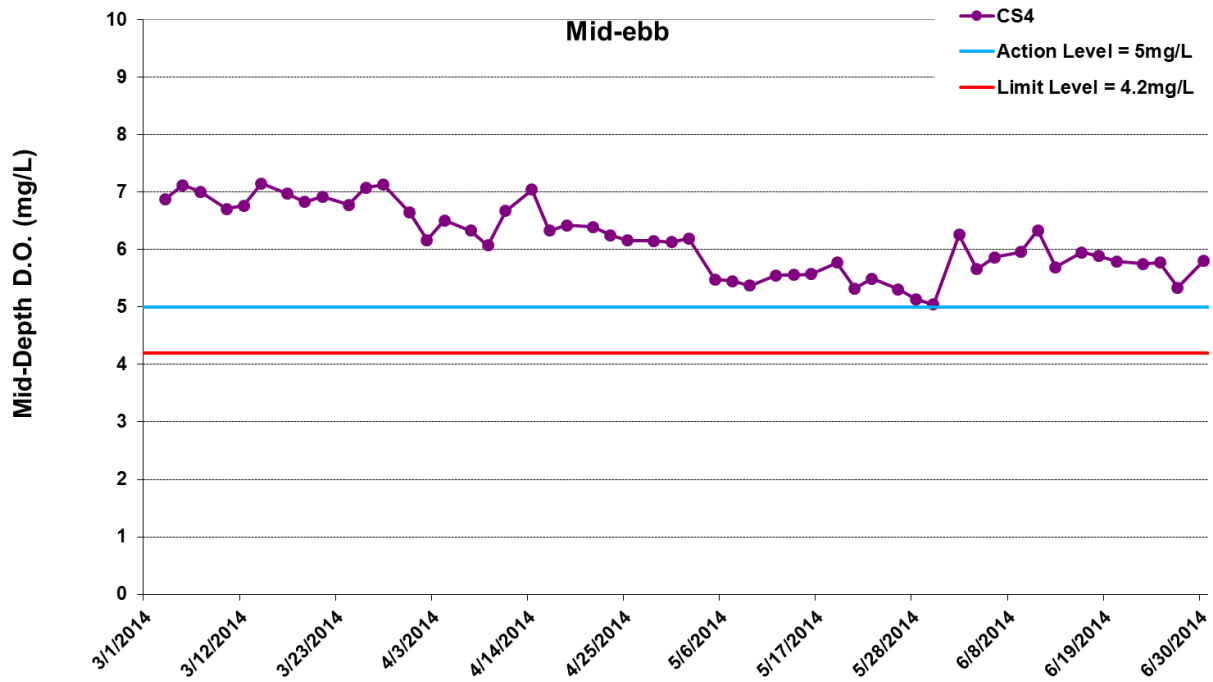


Figure I9 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in surface waters between 1 March 2014 and 30 June 2014 at SR9. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine construction activities included: Dredging (3/1/2014 - 6/30/2014); Construction of Temporary Seawalls (3/1/2013 - 6/30/2014); Sheet Piling (3/1/2014 - 6/30/2014); Filling (3/23/2014 - 6/30/2014).

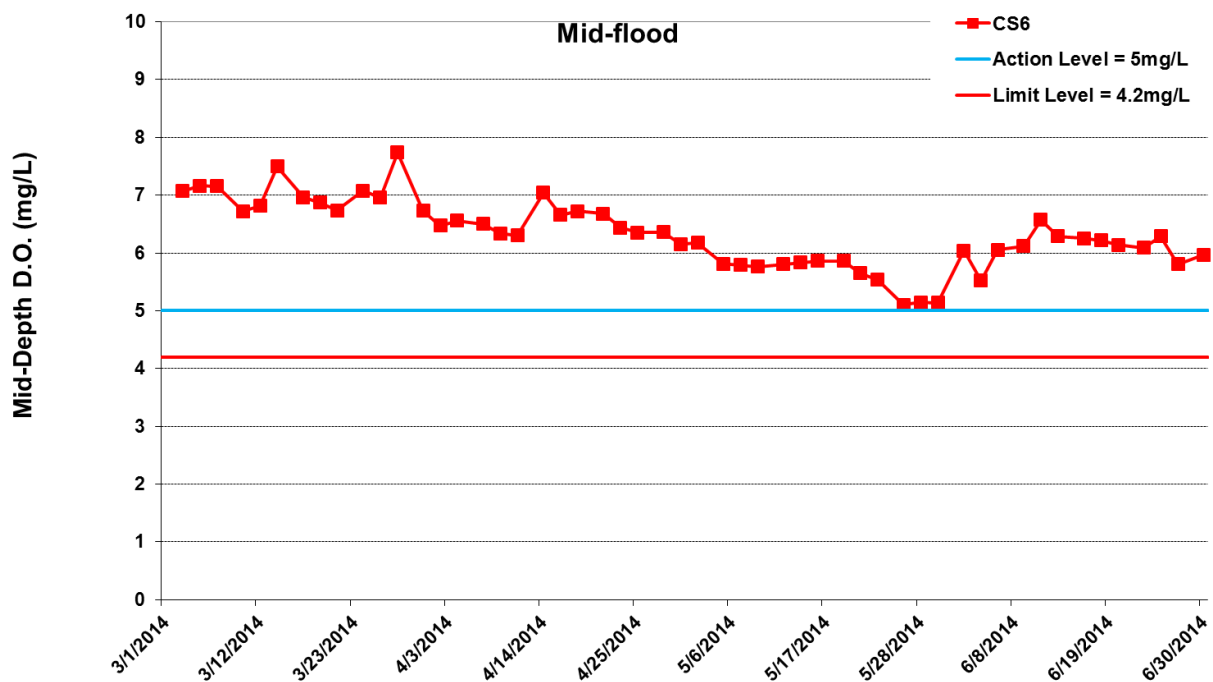
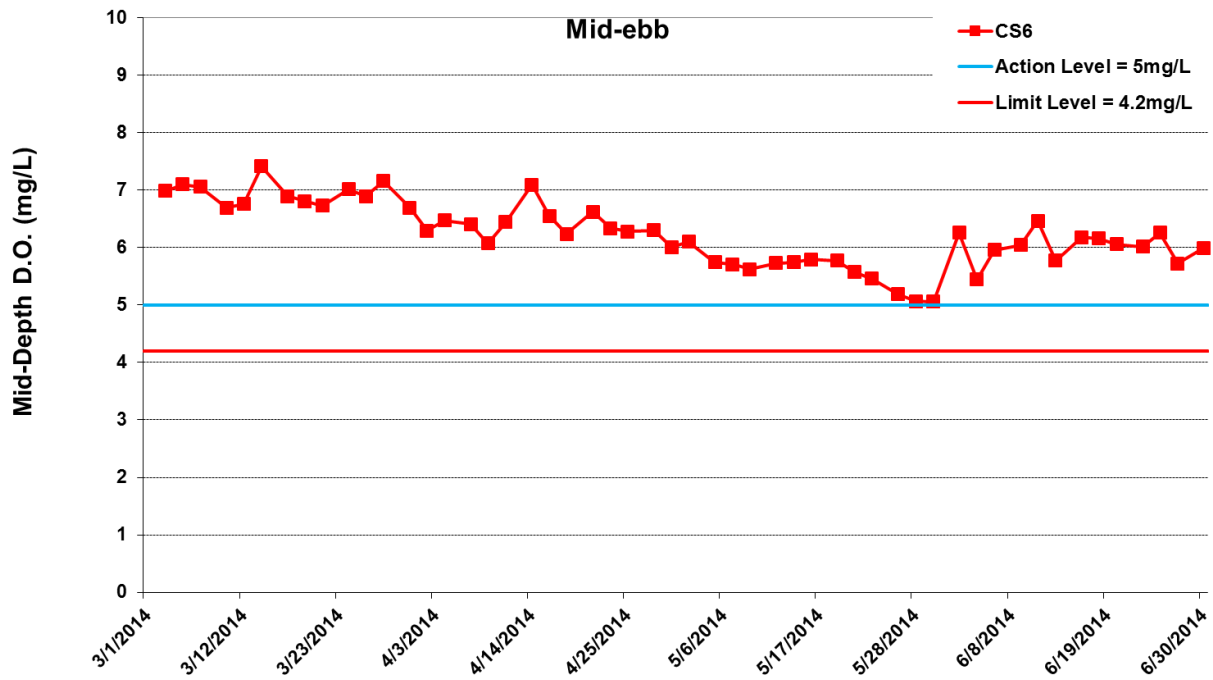




\*No data for Stations SR8 and SR9 due to shallow water depth (< 6m).

Figure I10 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in mid-depth waters between 1 March 2014 and 30 June 2014 at CS4. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine construction activities included: Dredging (3/1/2014 - 6/30/2014); Construction of Temporary Seawalls (3/1/2013 - 6/30/2014); Sheet Piling (3/1/2014 - 6/30/2014); Filling (3/23/2014 - 6/30/2014).



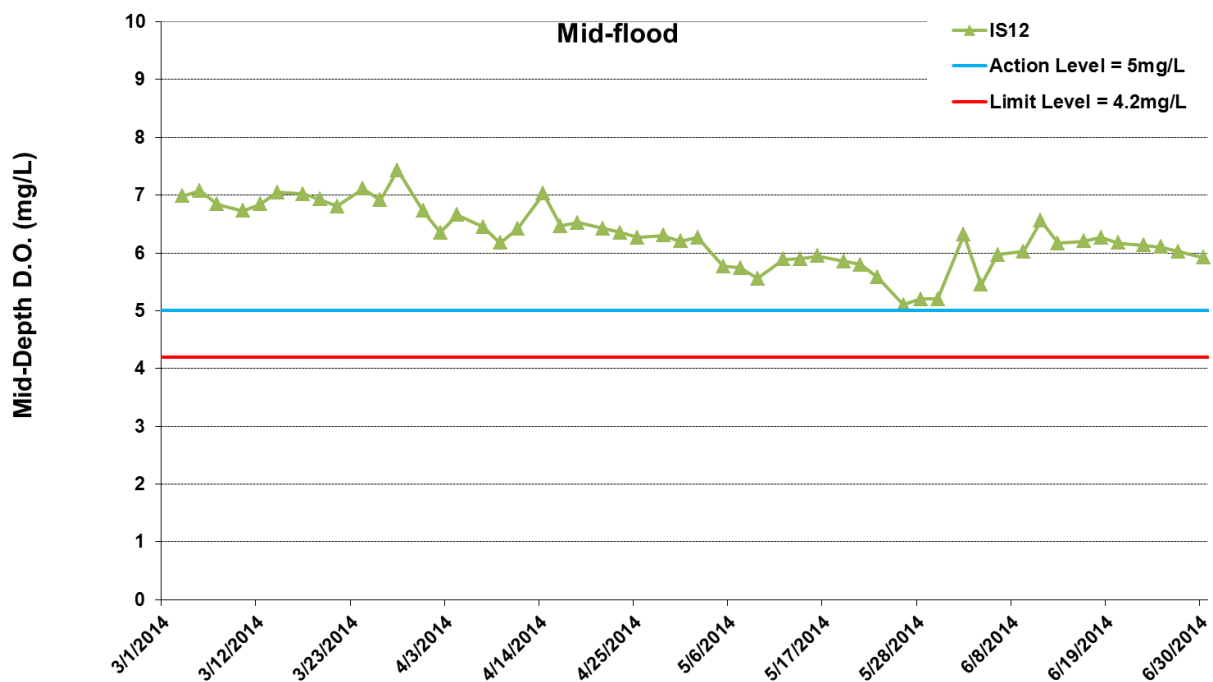
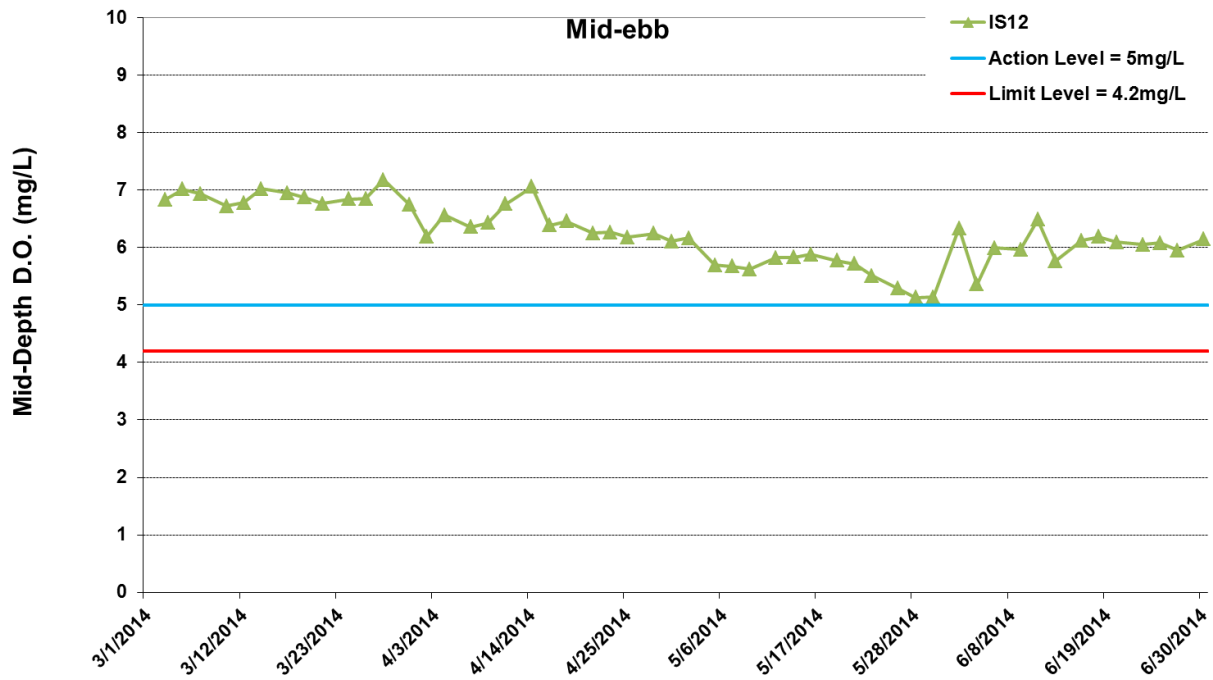


\*No data for Stations SR8 and SR9 due to shallow water depth (< 6m).

Figure I11 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in mid-depth waters between 1 March 2014 and 30 June 2014 at CS6. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine construction activities included: Dredging (3/1/2014 - 6/30/2014); Construction of Temporary Seawalls (3/1/2013 - 6/30/2014); Sheet Piling (3/1/2014 - 6/30/2014); Filling (3/23/2014 - 6/30/2014).



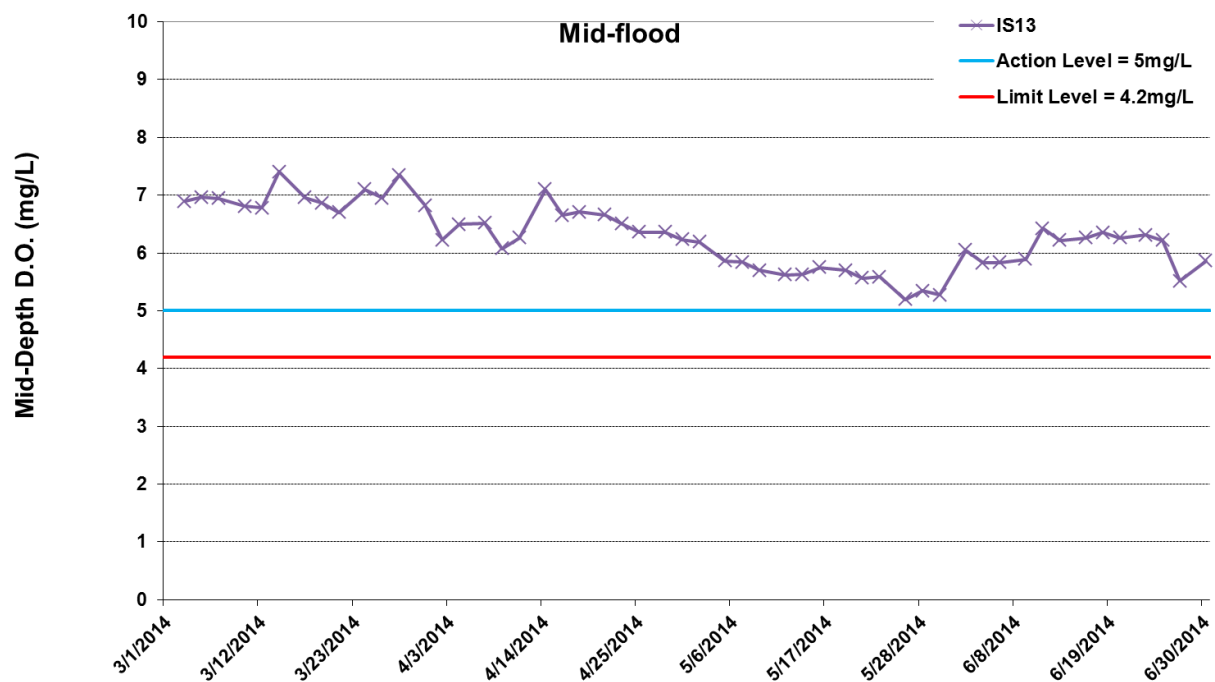
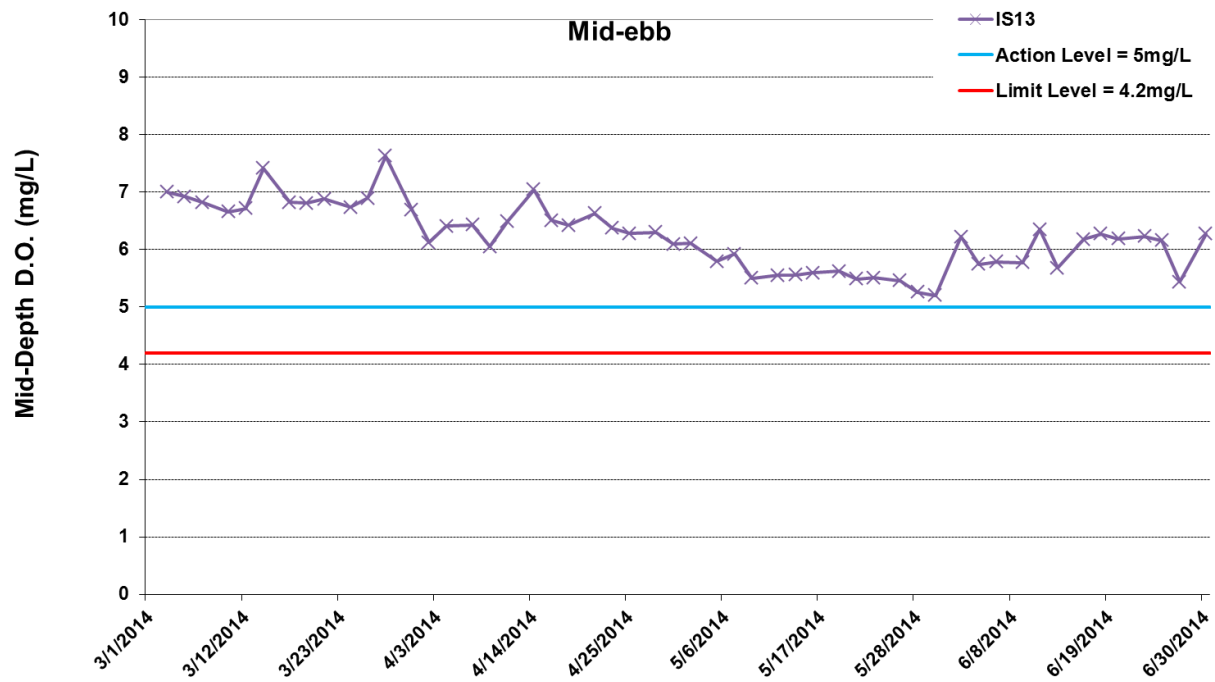




\*No data for Stations SR8 and SR9 due to shallow water depth (< 6m).

Figure I12 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in mid-depth waters between 1 March 2014 and 30 June 2014 at IS12. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine construction activities included: Dredging (3/1/2014 - 6/30/2014); Construction of Temporary Seawalls (3/1/2013 - 6/30/2014); Sheet Piling (3/1/2014 - 6/30/2014); Filling (3/23/2014 - 6/30/2014).

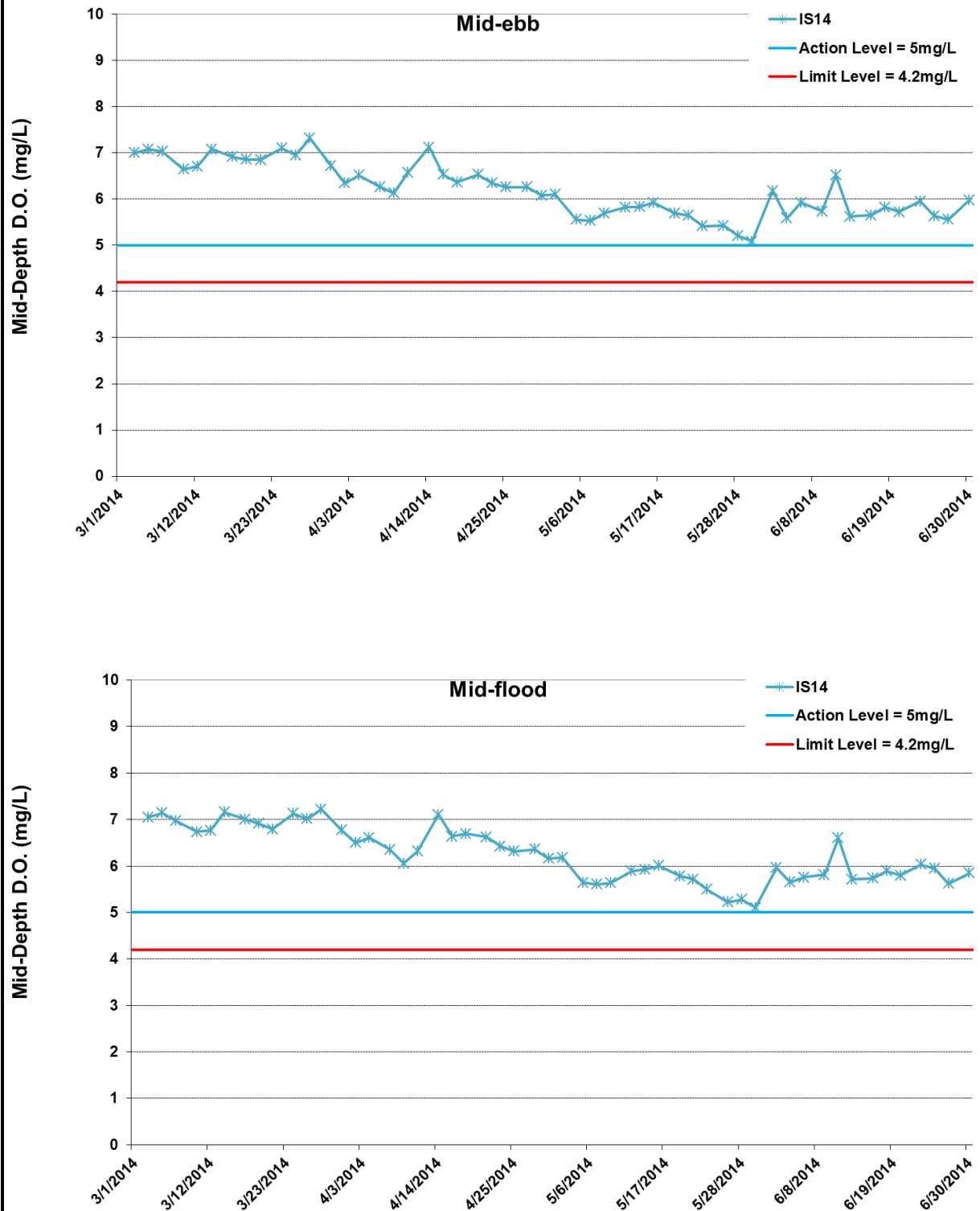




\*No data for Stations SR8 and SR9 due to shallow water depth (< 6m).

Figure I13 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in mid-depth waters between 1 March 2014 and 30 June 2014 at IS13. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine construction activities included: Dredging (3/1/2014 - 6/30/2014); Construction of Temporary Seawalls (3/1/2013 - 6/30/2014); Sheet Piling (3/1/2014 - 6/30/2014); Filling (3/23/2014 - 6/30/2014).

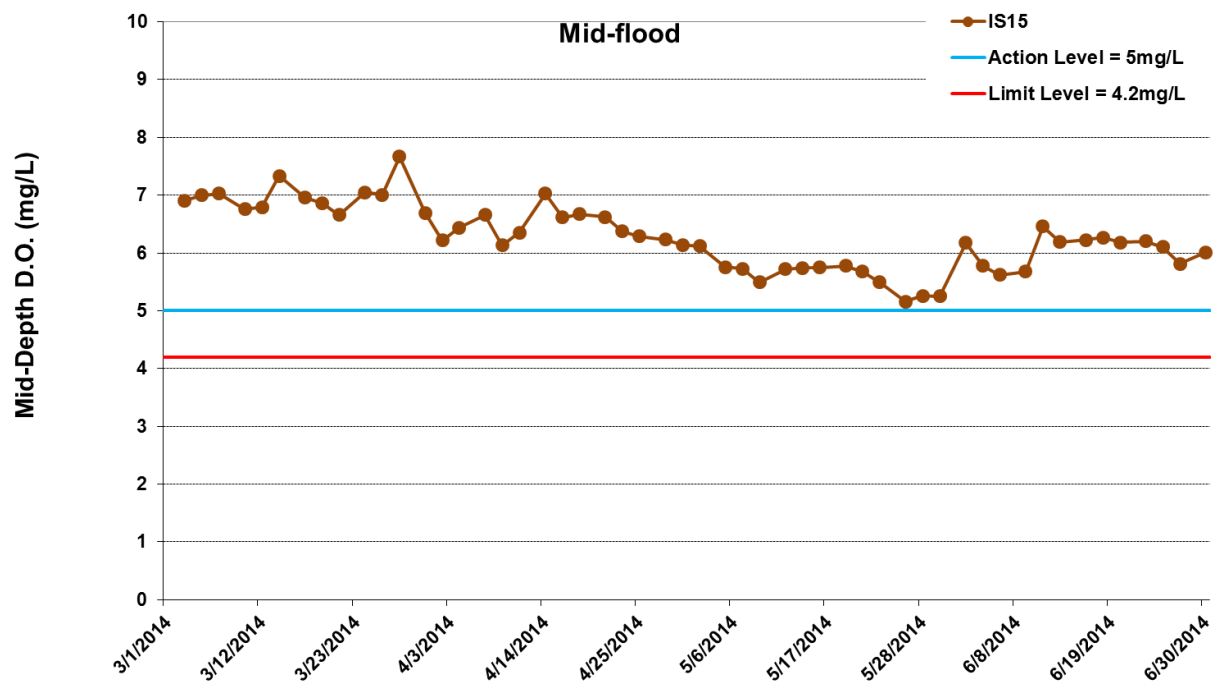
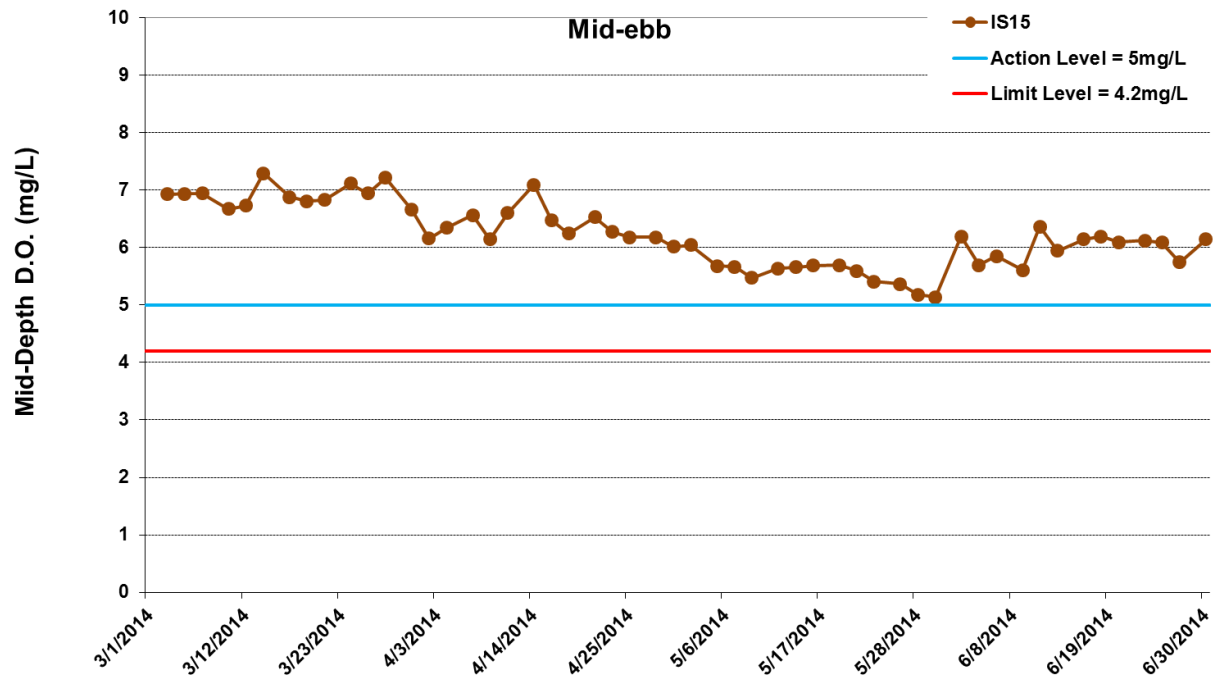




\*No data for Stations SR8 and SR9 due to shallow water depth (< 6m).

**Figure I14 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in mid-depth waters between 1 March 2014 and 30 June 2014 at IS14.** The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine construction activities included: Dredging (3/1/2014 - 6/30/2014); Construction of Temporary Seawalls (3/1/2013 - 6/30/2014); Sheet Piling (3/1/2014 - 6/30/2014); Filling (3/23/2014 - 6/30/2014).

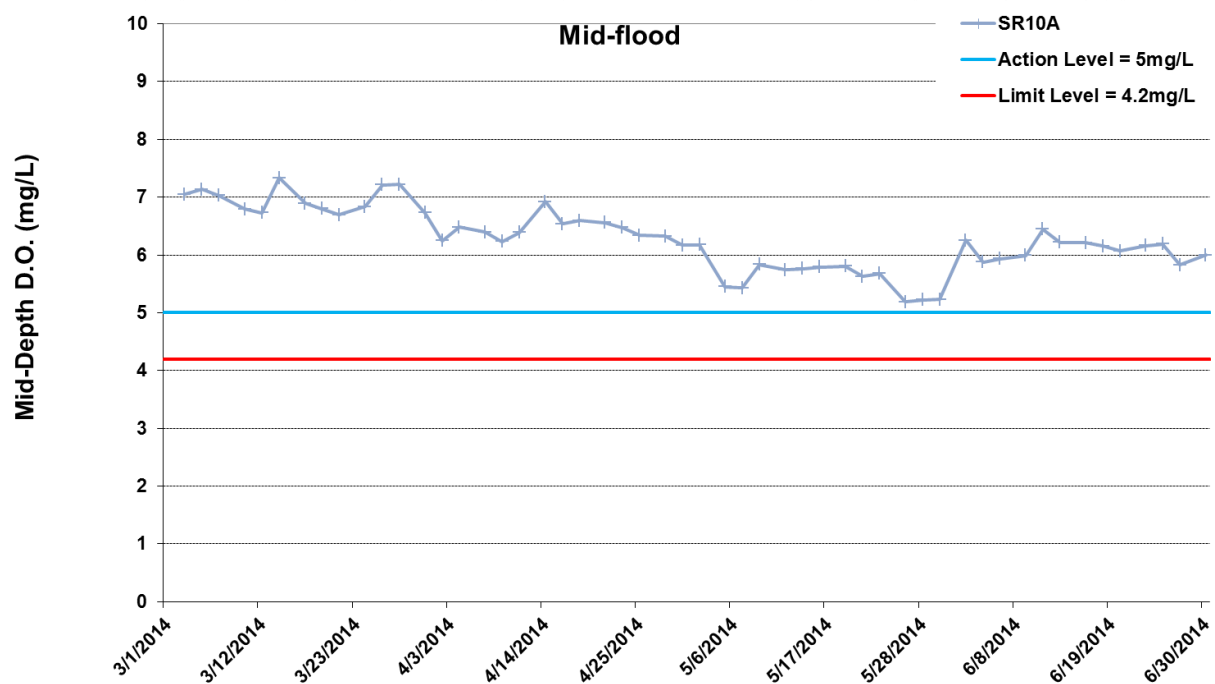
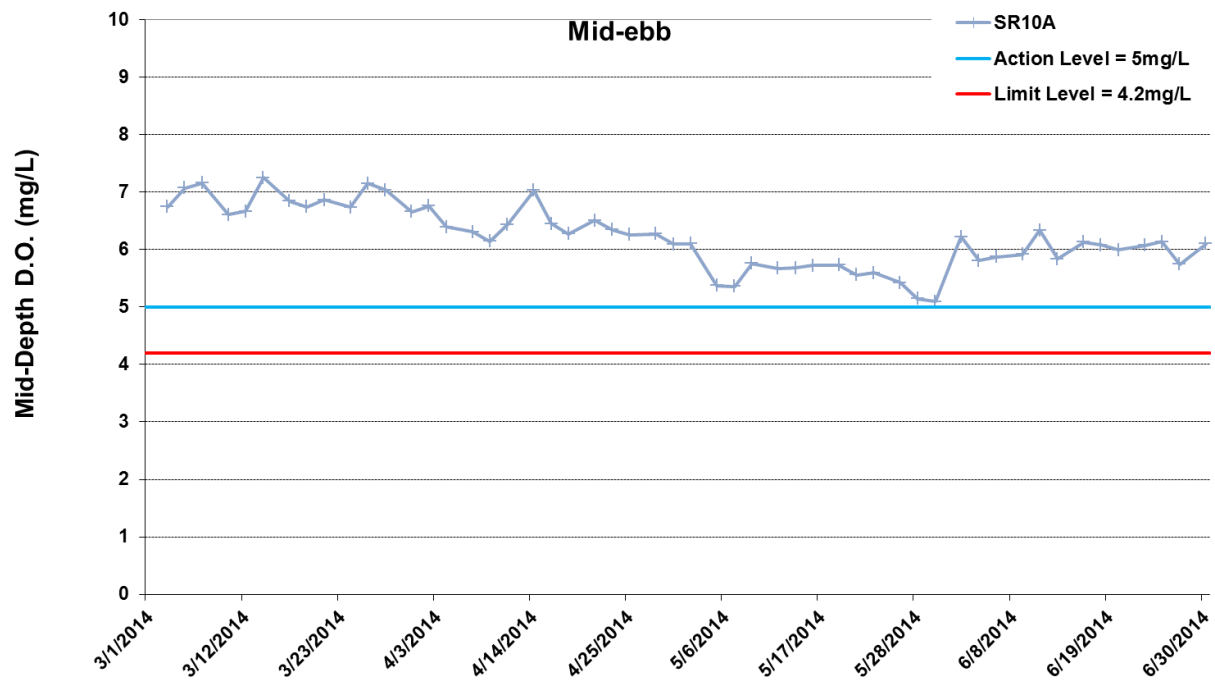




\*No data for Stations SR8 and SR9 due to shallow water depth (< 6m).

Figure I15 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in mid-depth waters between 1 March 2014 and 30 June 2014 at IS15. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine construction activities included: Dredging (3/1/2014 - 6/30/2014); Construction of Temporary Seawalls (3/1/2013 - 6/30/2014); Sheet Piling (3/1/2014 - 6/30/2014); Filling (3/23/2014 - 6/30/2014).





\*No data for Stations SR8 and SR9 due to shallow water depth (< 6m).

Figure I16 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in mid-depth waters between 1 March 2014 and 30 June 2014 at SR10A. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine construction activities included: Dredging (3/1/2014 - 6/30/2014); Construction of Temporary Seawalls (3/1/2013 - 6/30/2014); Sheet Piling (3/1/2014 - 6/30/2014); Filling (3/23/2014 - 6/30/2014).



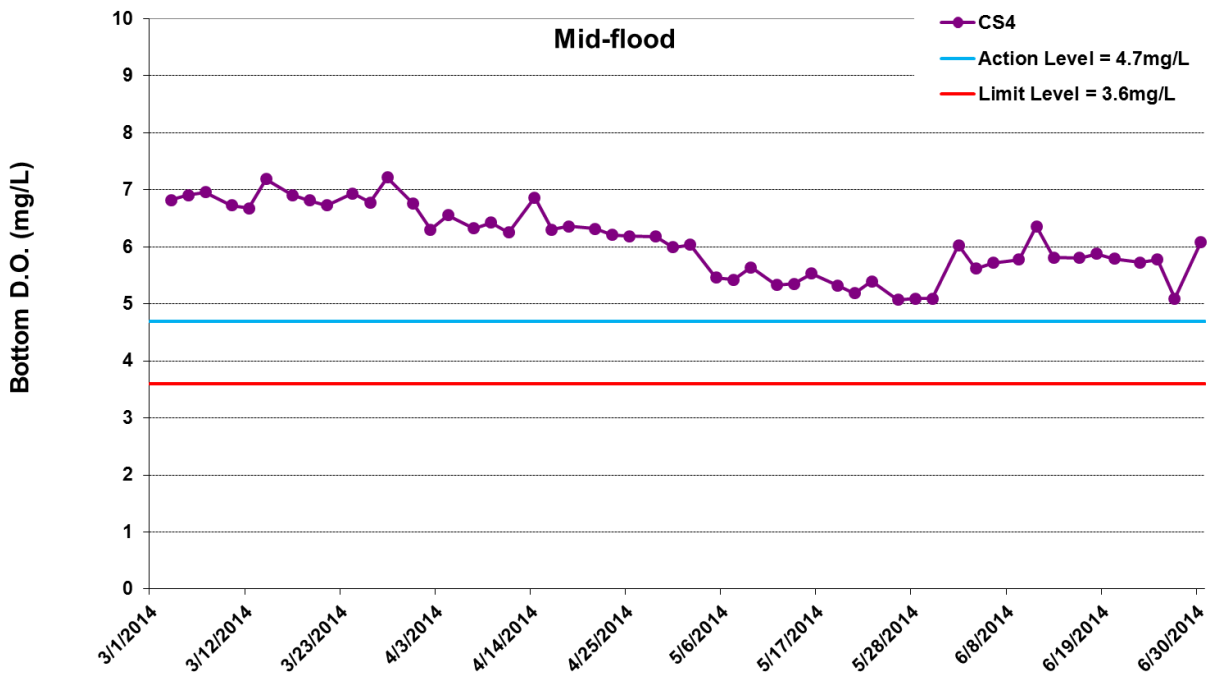
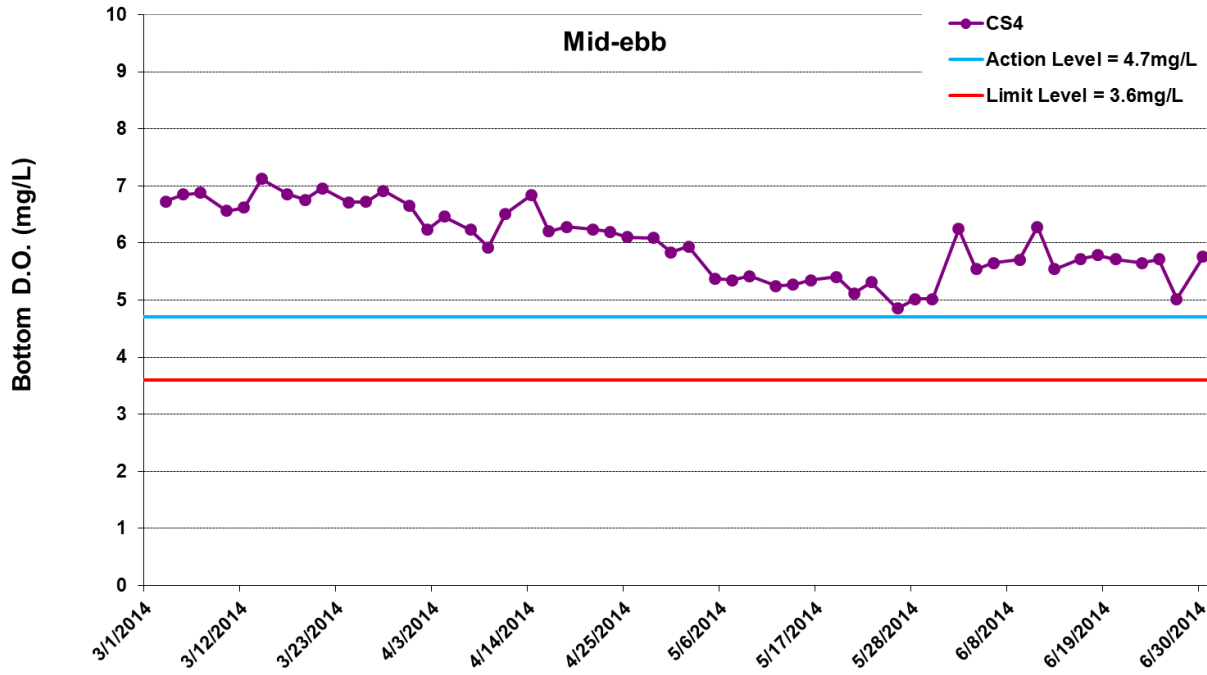


Figure I17 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in bottom water between 1 March 2014 and 30 June 2014 at CS4. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine construction activities included: Dredging (3/1/2014 - 6/30/2014); Construction of Temporary Seawalls (3/1/2013 - 6/30/2014); Sheet Piling (3/1/2014 - 6/30/2014); Filling (3/23/2014 - 6/30/2014).



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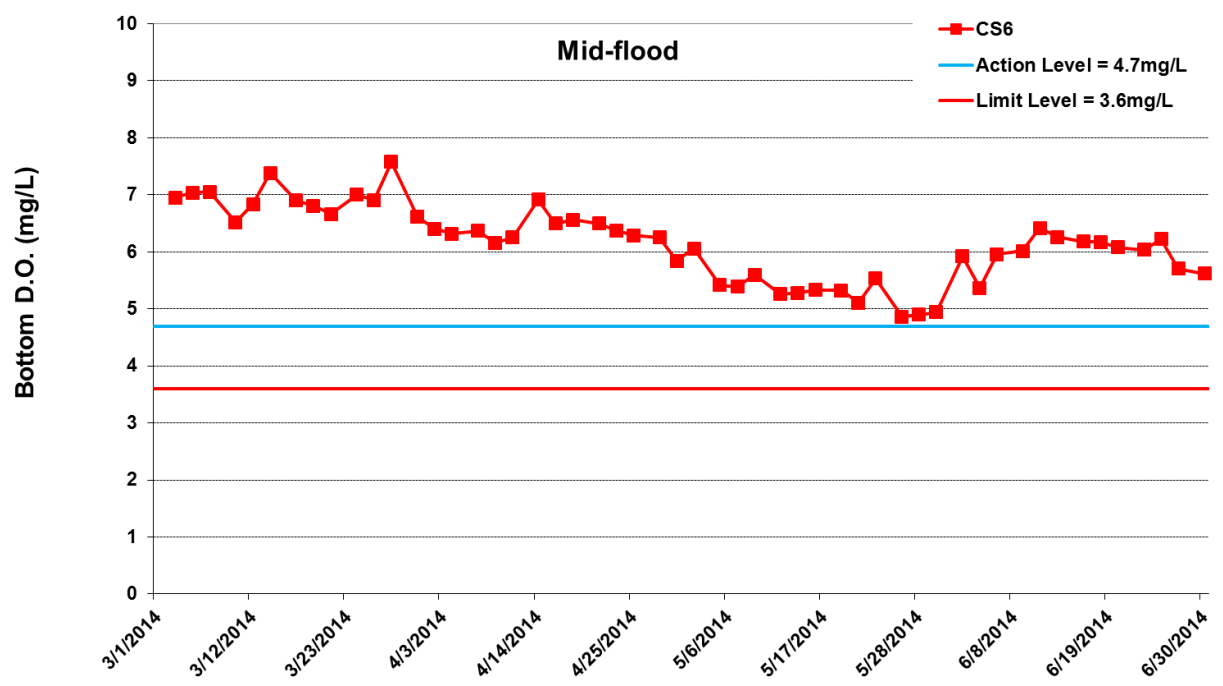
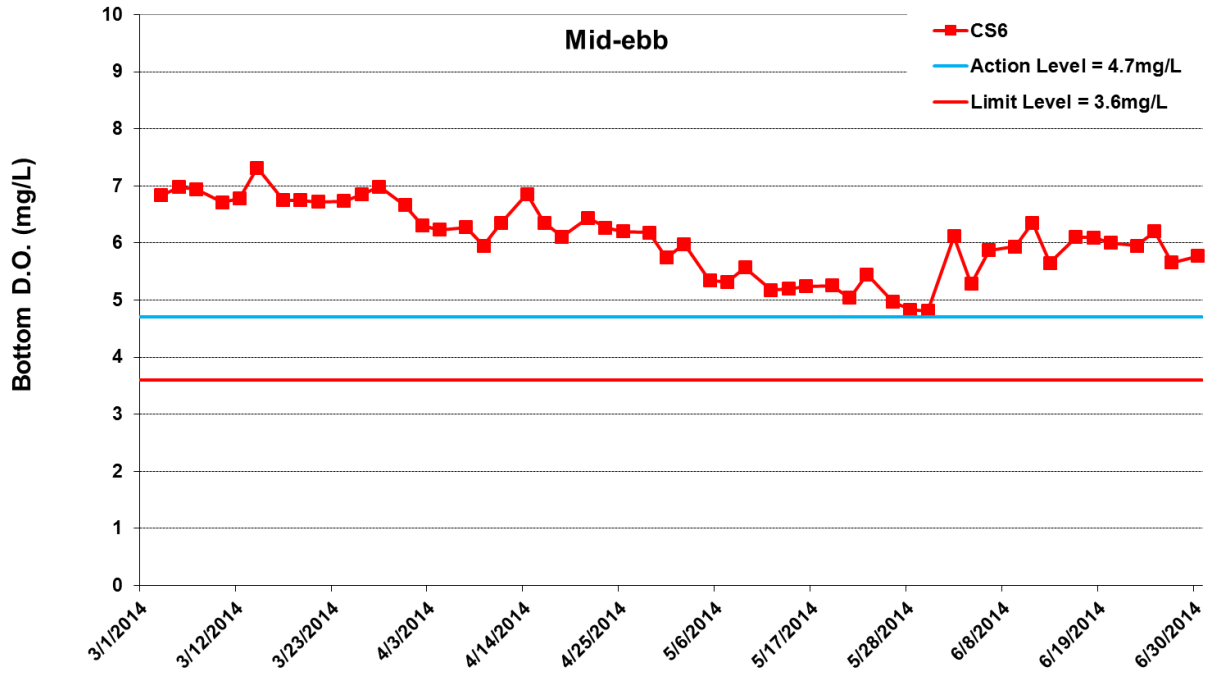


Figure I18 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in bottom water between 1 March 2014 and 30 June 2014 at CS6. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine construction activities included: Dredging (3/1/2014 - 6/30/2014); Construction of Temporary Seawalls (3/1/2013 - 6/30/2014); Sheet Piling (3/1/2014 - 6/30/2014); Filling (3/23/2014 - 6/30/2014).



Ref: 0212330\_Impact-WQM\_June2014\_graphs\_Rev a.xls

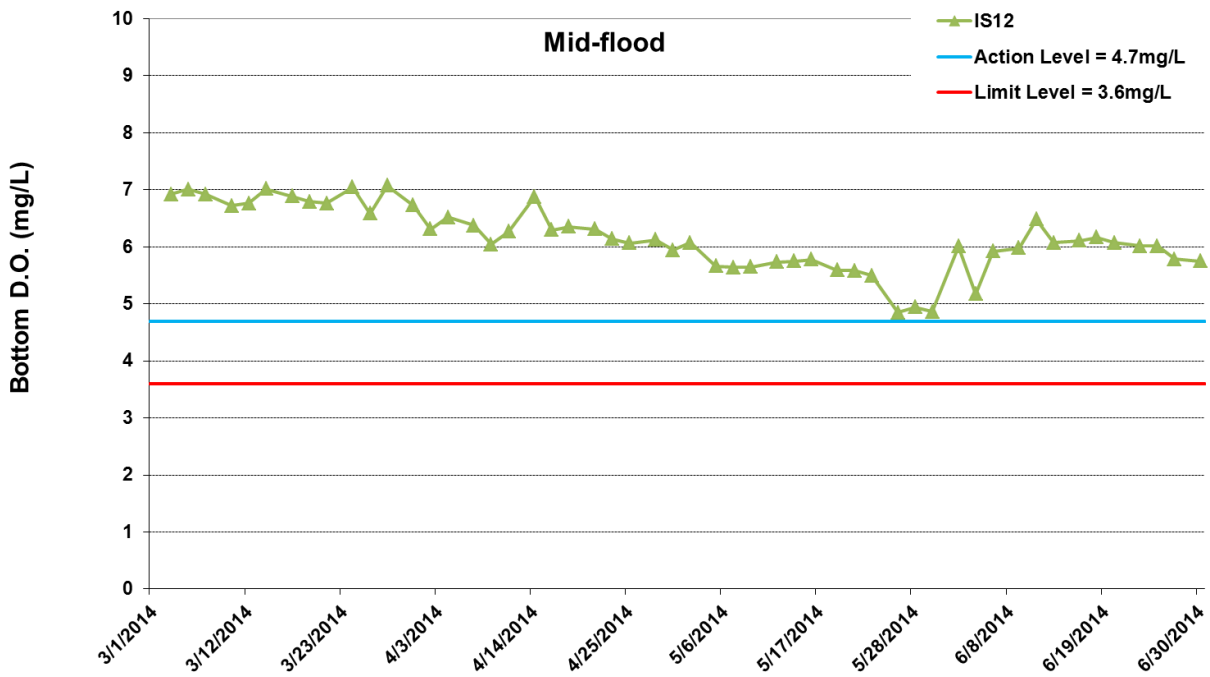
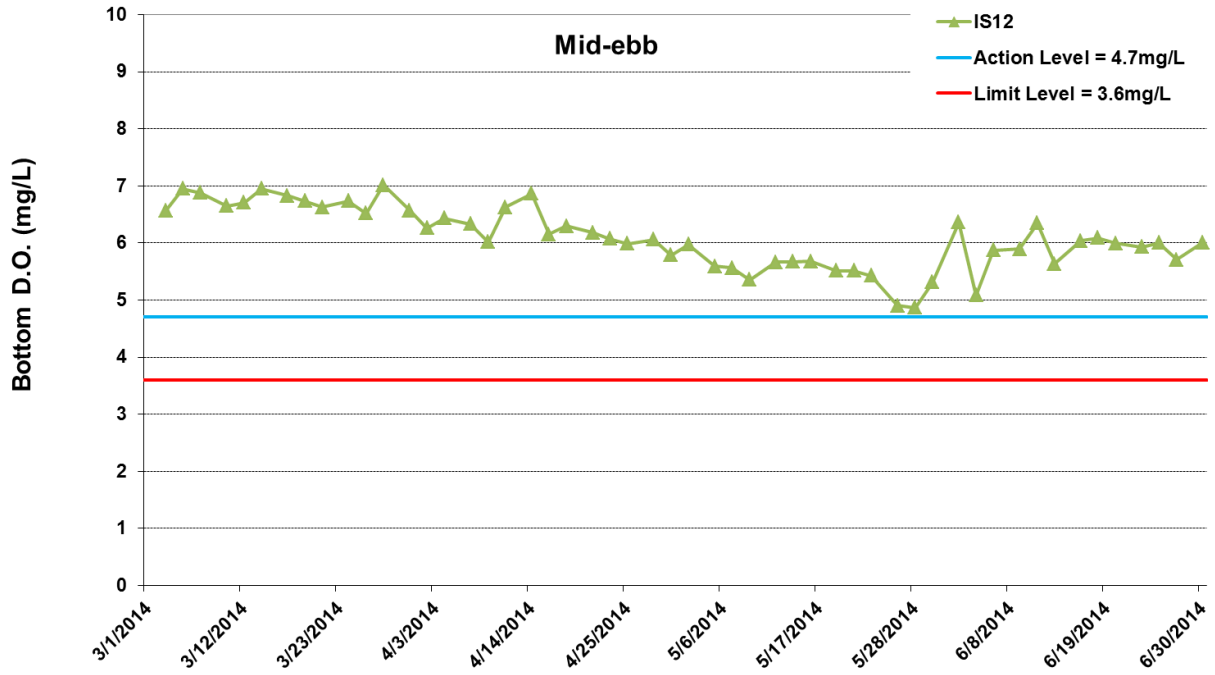


Figure I19 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in bottom water between 1 March 2014 and 30 June 2014 at IS12. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine construction activities included: Dredging (3/1/2014 - 6/30/2014); Construction of Temporary Seawalls (3/1/2013 - 6/30/2014); Sheet Piling (3/1/2014 - 6/30/2014); Filling (3/23/2014 - 6/30/2014).





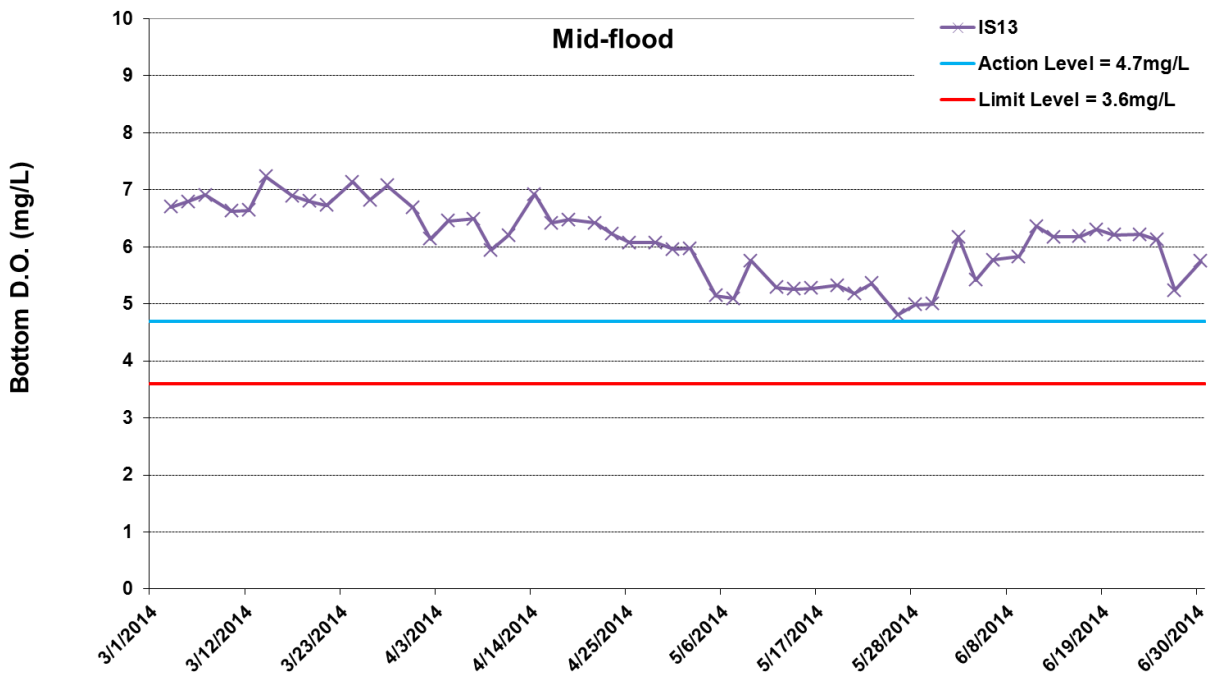
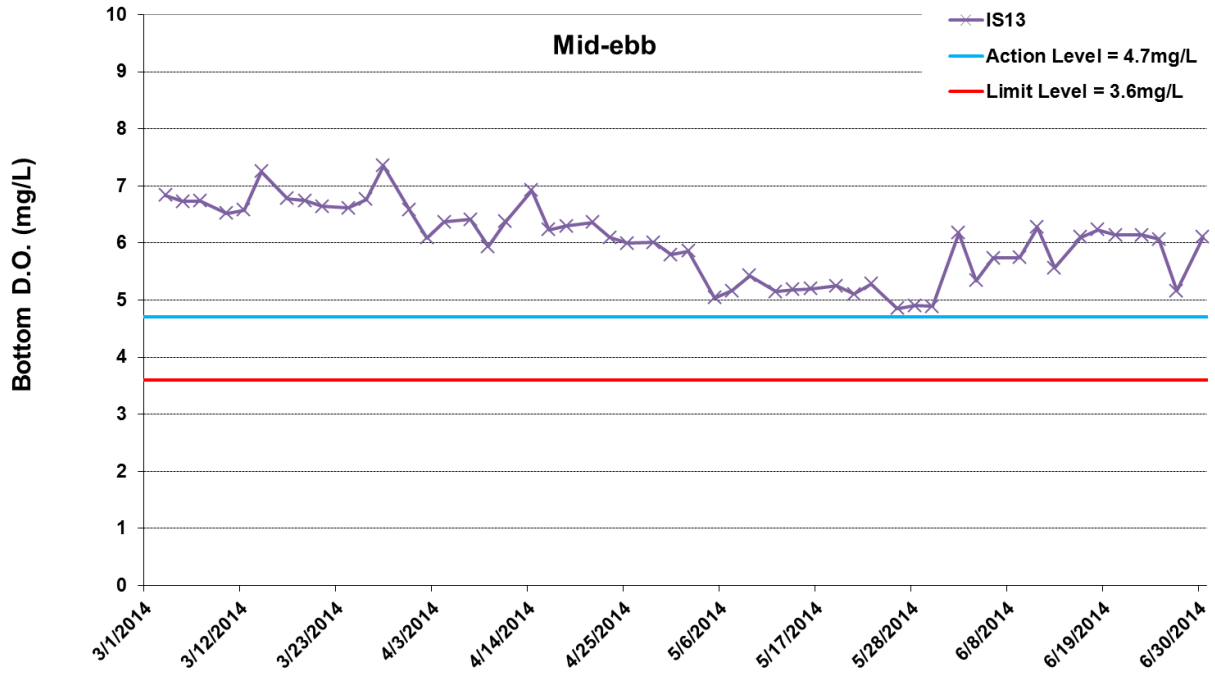


Figure I20 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in bottom water between 1 March 2014 and 30 June 2014 at IS13. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine construction activities included: Dredging (3/1/2014 - 6/30/2014); Construction of Temporary Seawalls (3/1/2013 - 6/30/2014); Sheet Piling (3/1/2014 - 6/30/2014); Filling (3/23/2014 - 6/30/2014).



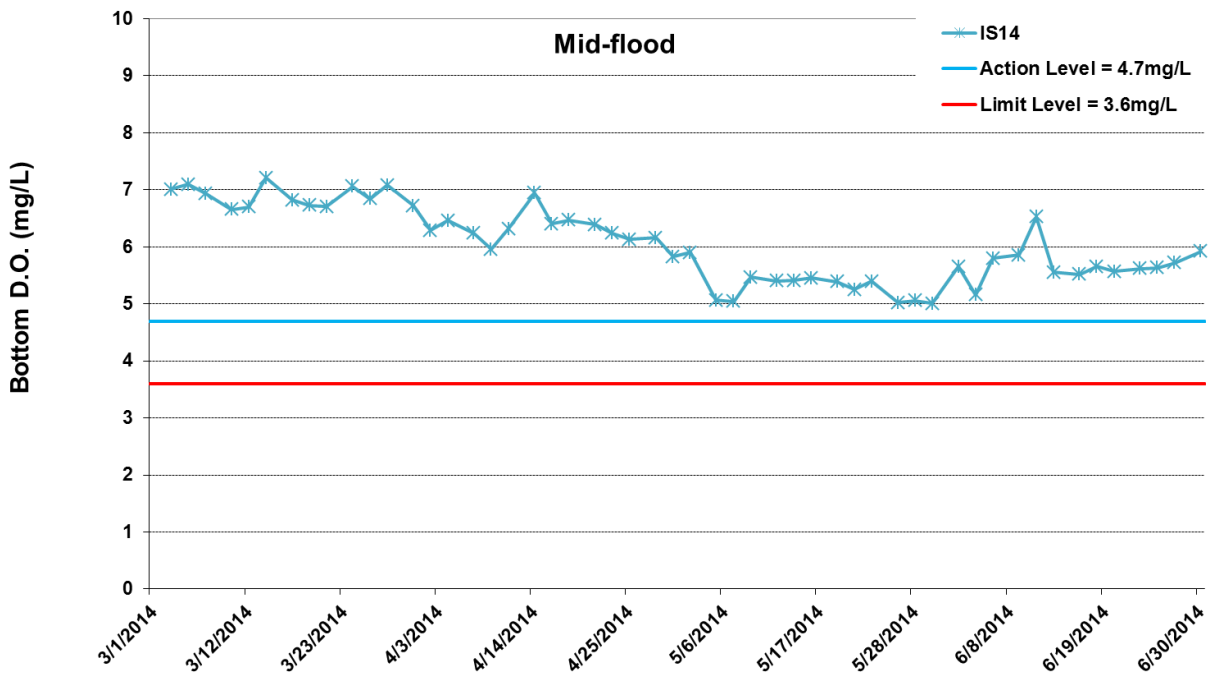
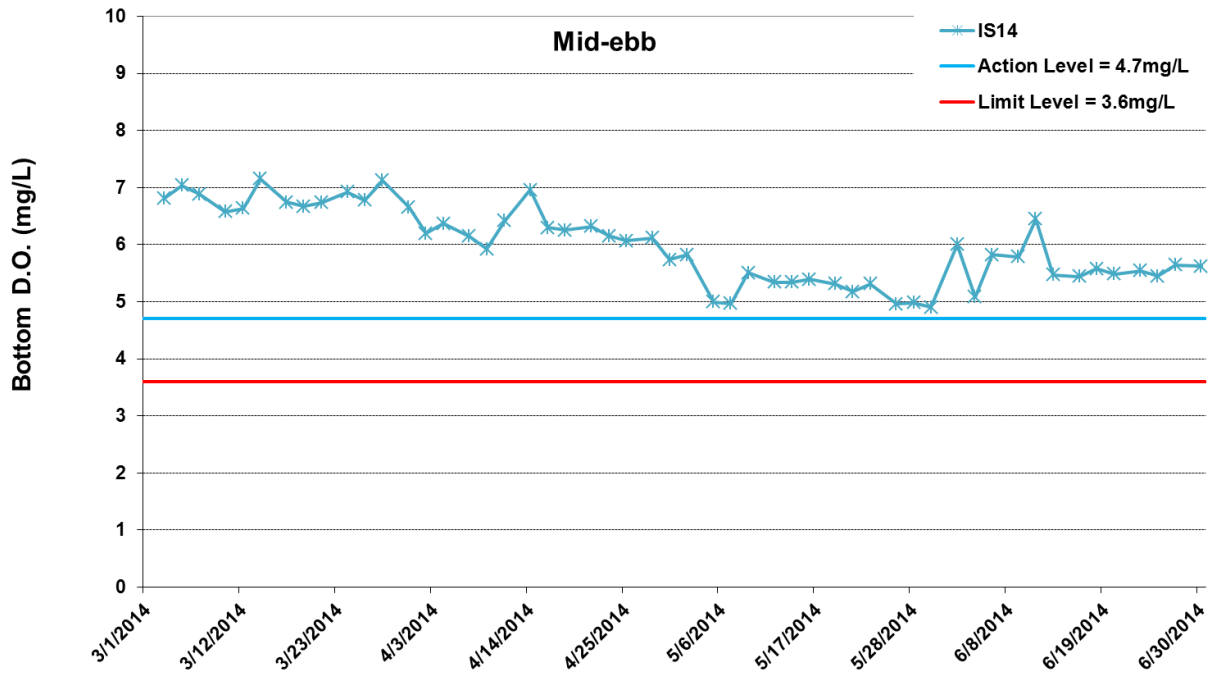


Figure I21 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in bottom water between 1 March 2014 and 30 June 2014 at IS14. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine construction activities included: Dredging (3/1/2014 - 6/30/2014); Construction of Temporary Seawalls (3/1/2013 - 6/30/2014); Sheet Piling (3/1/2014 - 6/30/2014); Filling (3/23/2014 - 6/30/2014).



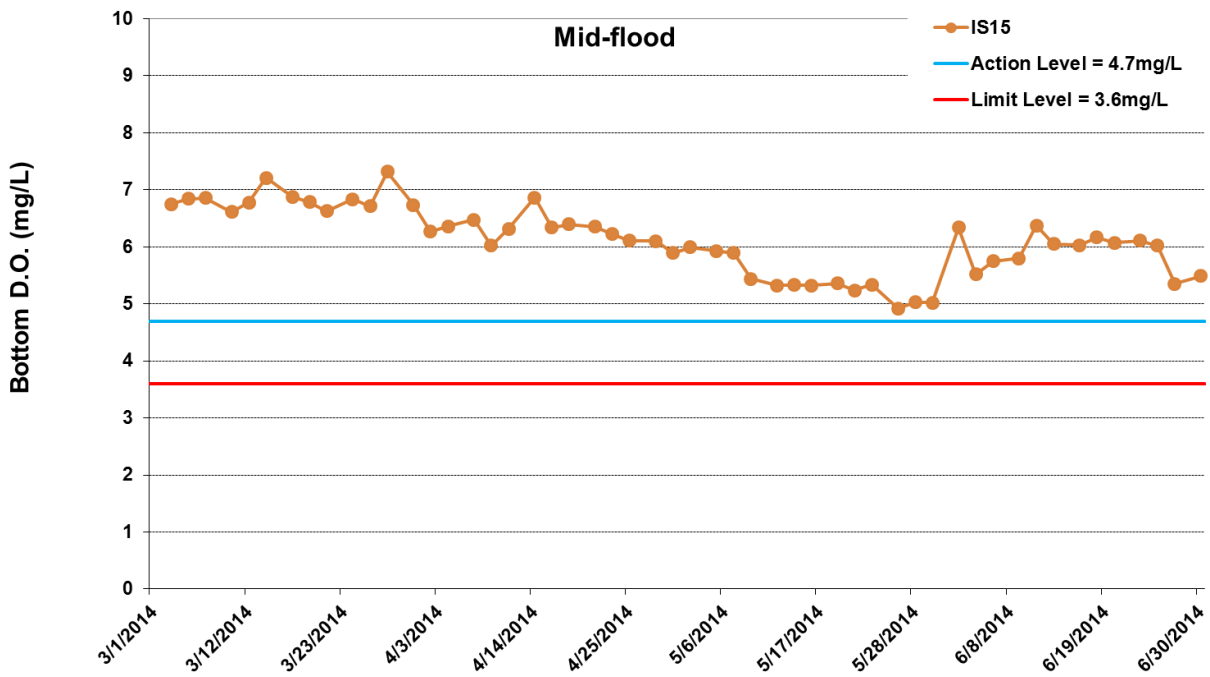
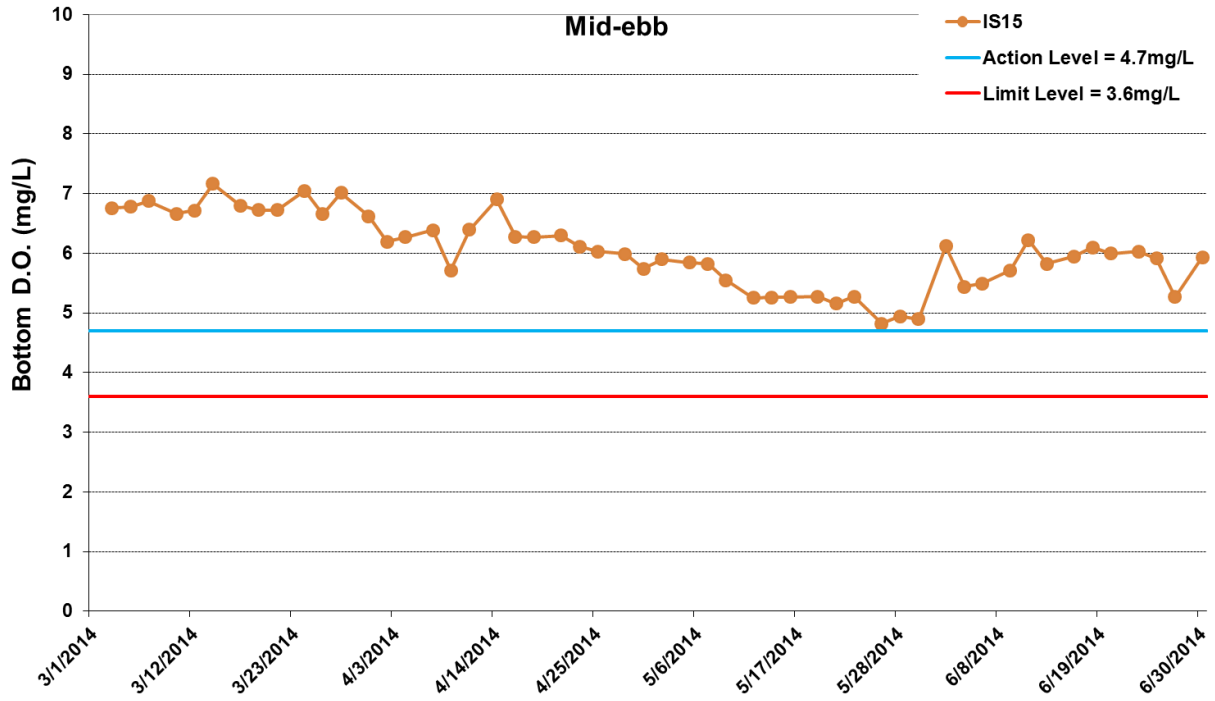


Figure I22 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in bottom water between 1 March 2014 and 30 June 2014 at IS15. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine construction activities included: Dredging (3/1/2014 - 6/30/2014); Construction of Temporary Seawalls (3/1/2013 - 6/30/2014); Sheet Piling (3/1/2014 - 6/30/2014); Filling (3/23/2014 - 6/30/2014).



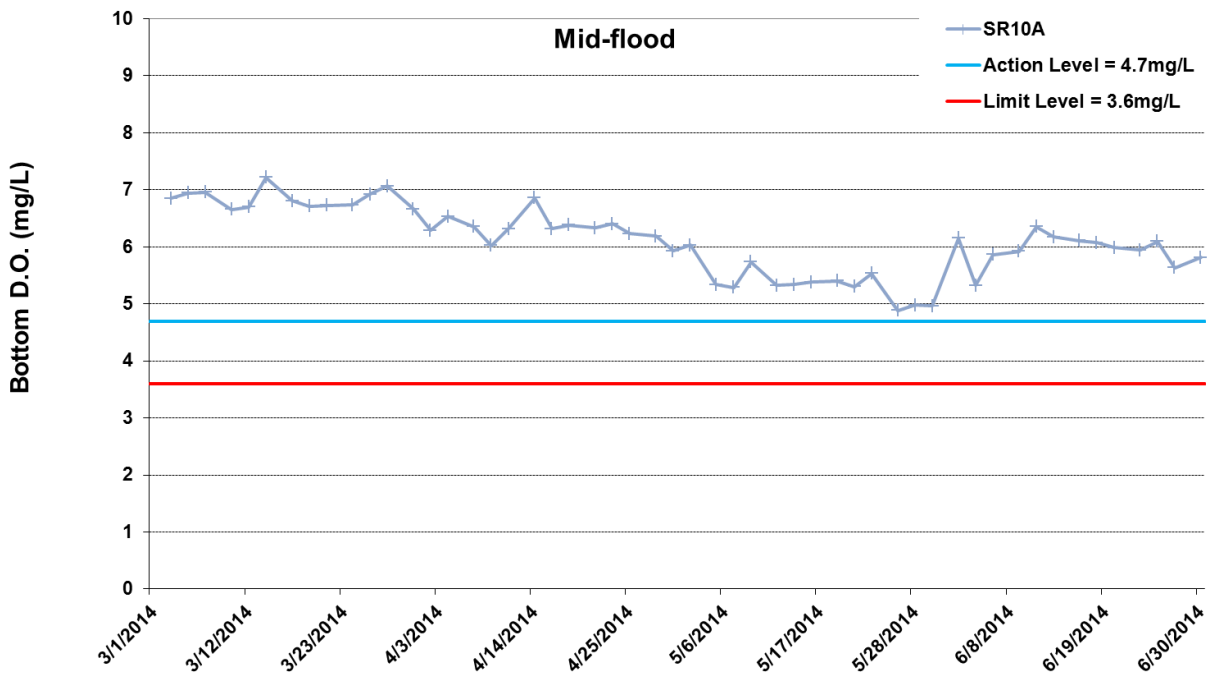
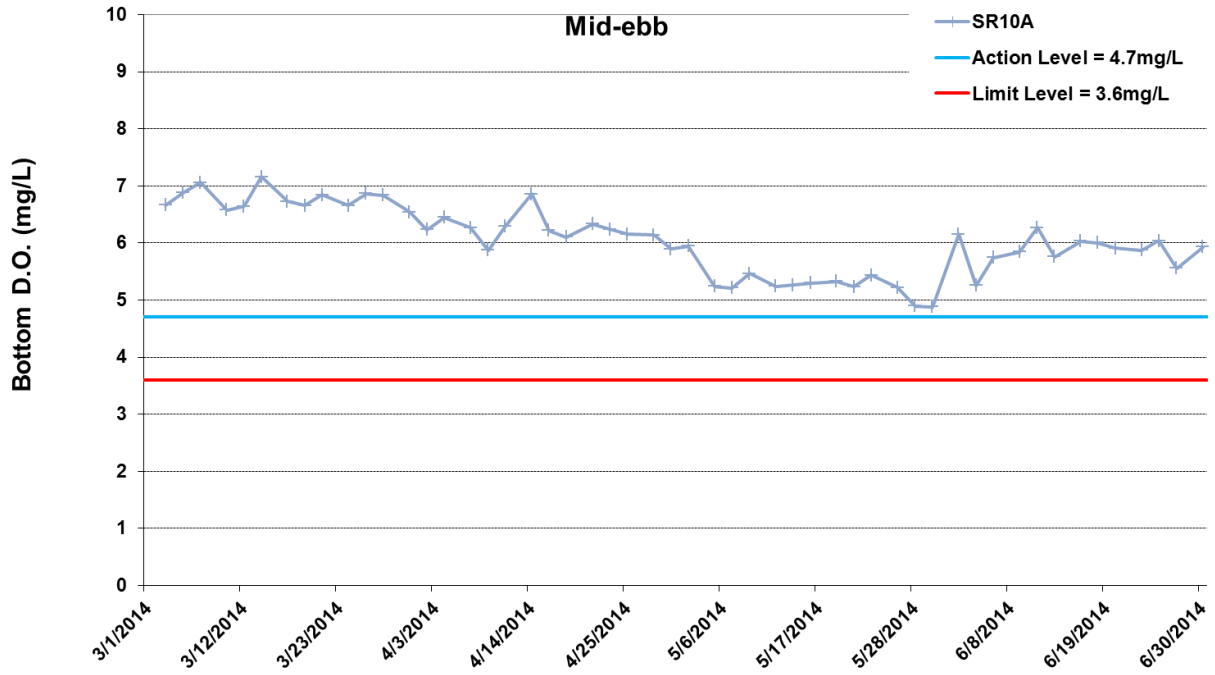


Figure I23 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in bottom water between 1 March 2014 and 30 June 2014 at SR10A. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine construction activities included: Dredging (3/1/2014 - 6/30/2014); Construction of Temporary Seawalls (3/1/2013 - 6/30/2014); Sheet Piling (3/1/2014 - 6/30/2014); Filling (3/23/2014 - 6/30/2014).



Ref: 0212330\_Impact-WQM\_June2014\_graphs\_Rev a.xls

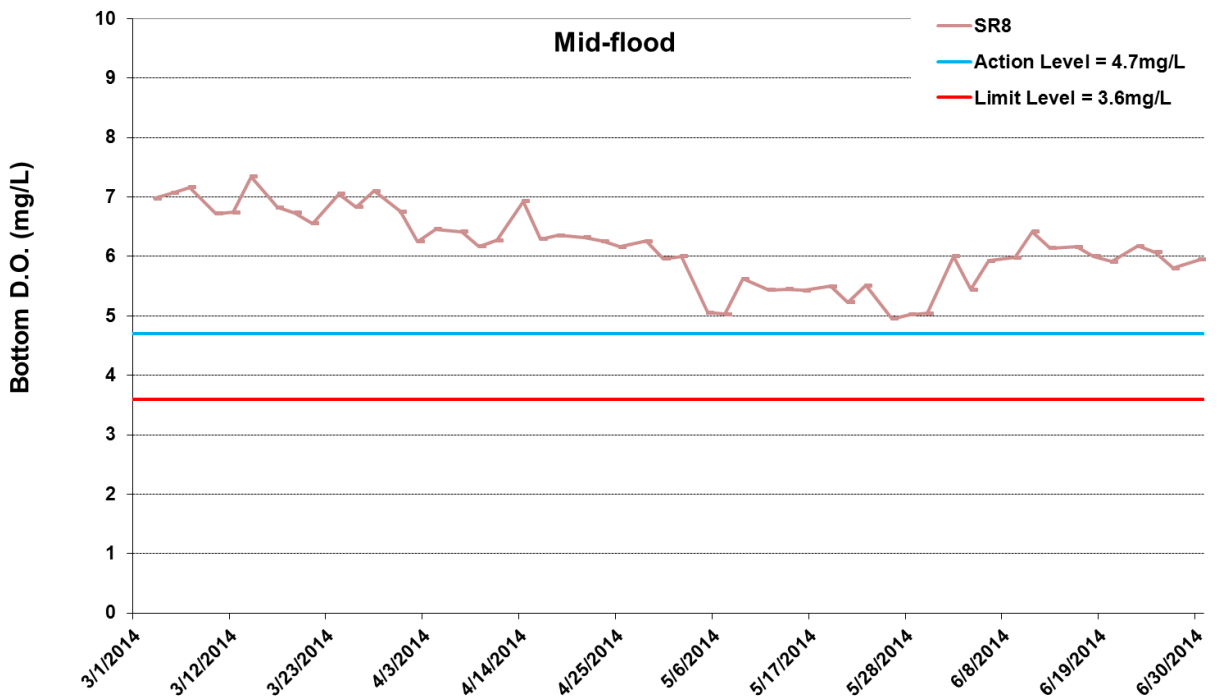
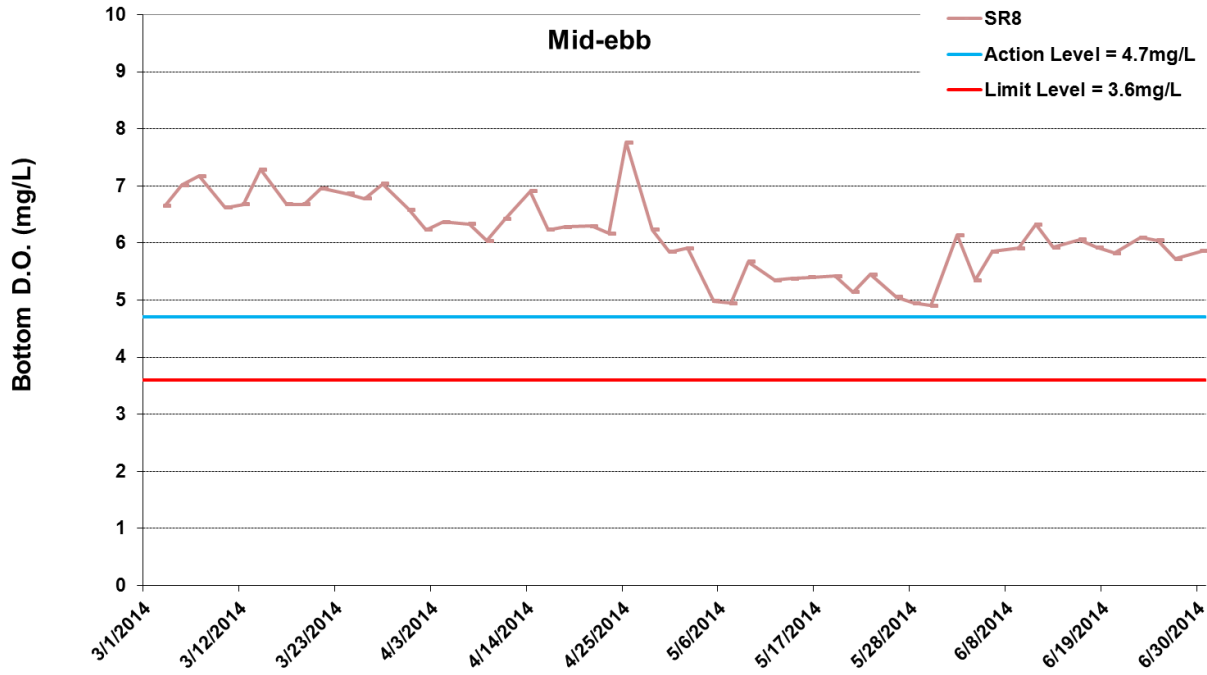


Figure I24 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in bottom water between 1 March 2014 and 30 June 2014 at SR8. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine construction activities included: Dredging (3/1/2014 - 6/30/2014); Construction of Temporary Seawalls (3/1/2013 - 6/30/2014); Sheet Piling (3/1/2014 - 6/30/2014); Filling (3/23/2014 - 6/30/2014).



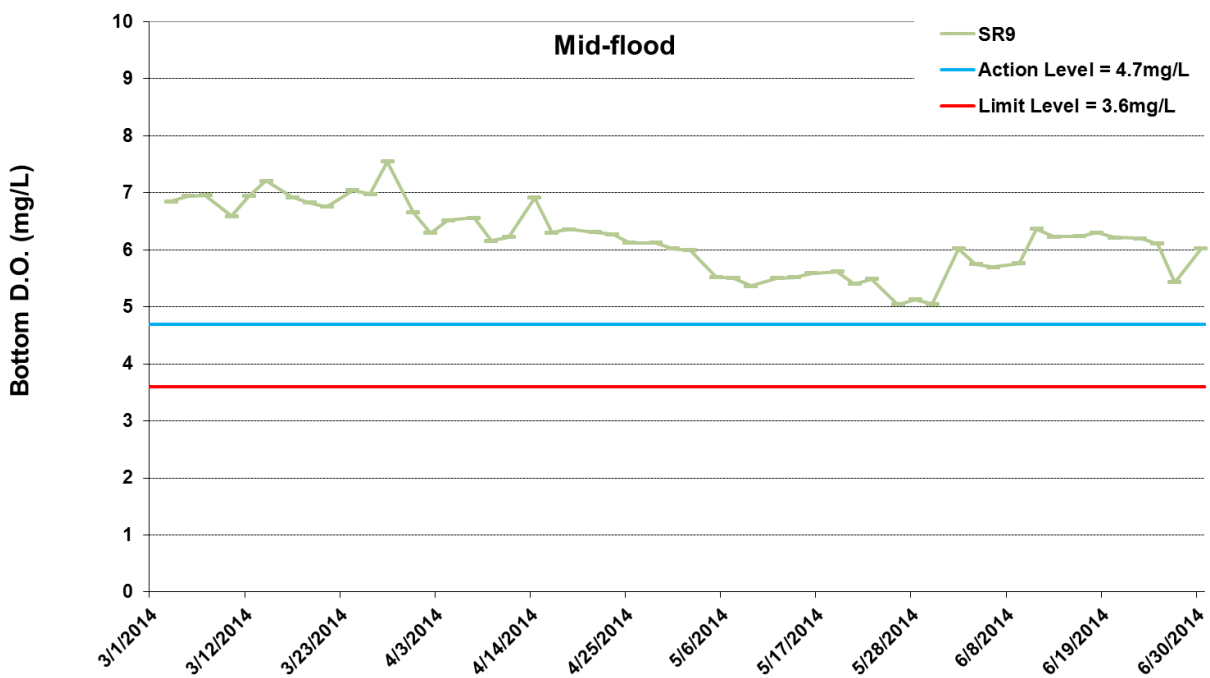
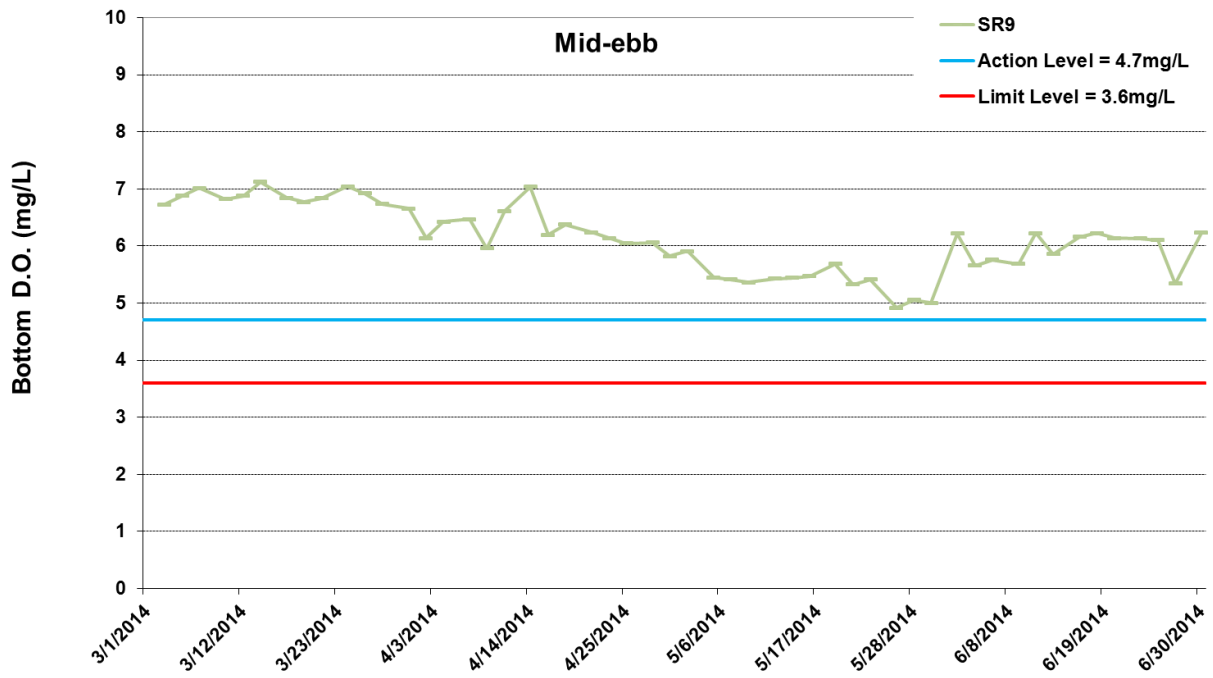


Figure I25 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in bottom water between 1 March 2014 and 30 June 2014 at SR9. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine construction activities included: Dredging (3/1/2014 - 6/30/2014); Construction of Temporary Seawalls (3/1/2013 - 6/30/2014); Sheet Piling (3/1/2014 - 6/30/2014); Filling (3/23/2014 - 6/30/2014).



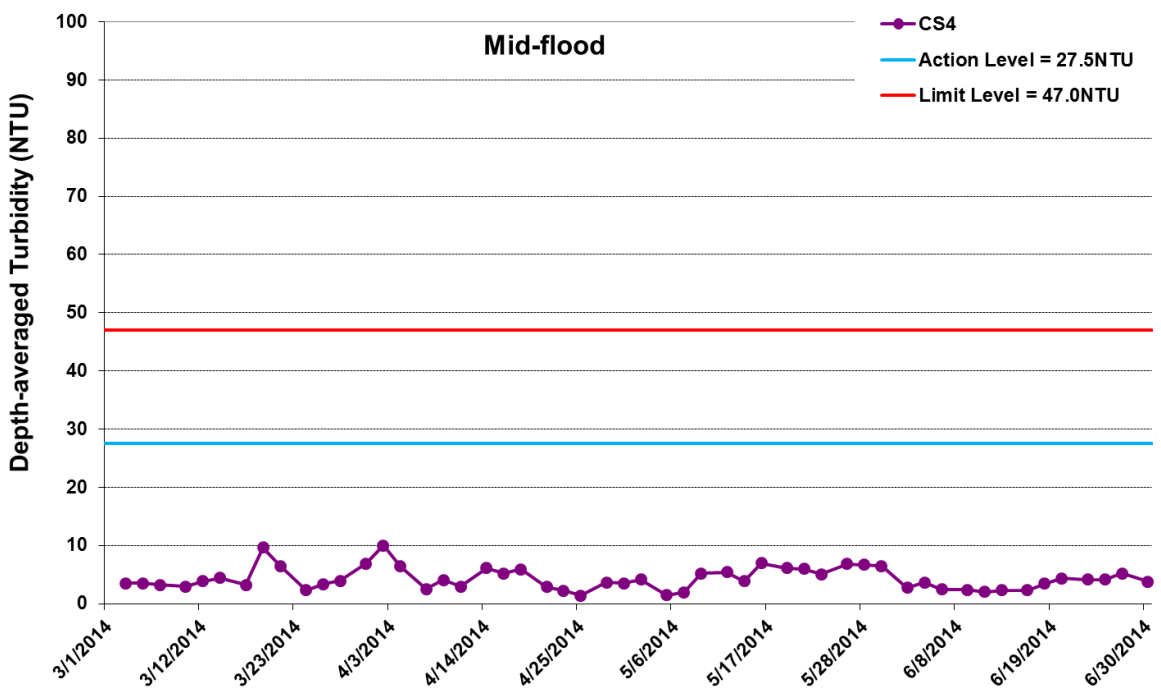
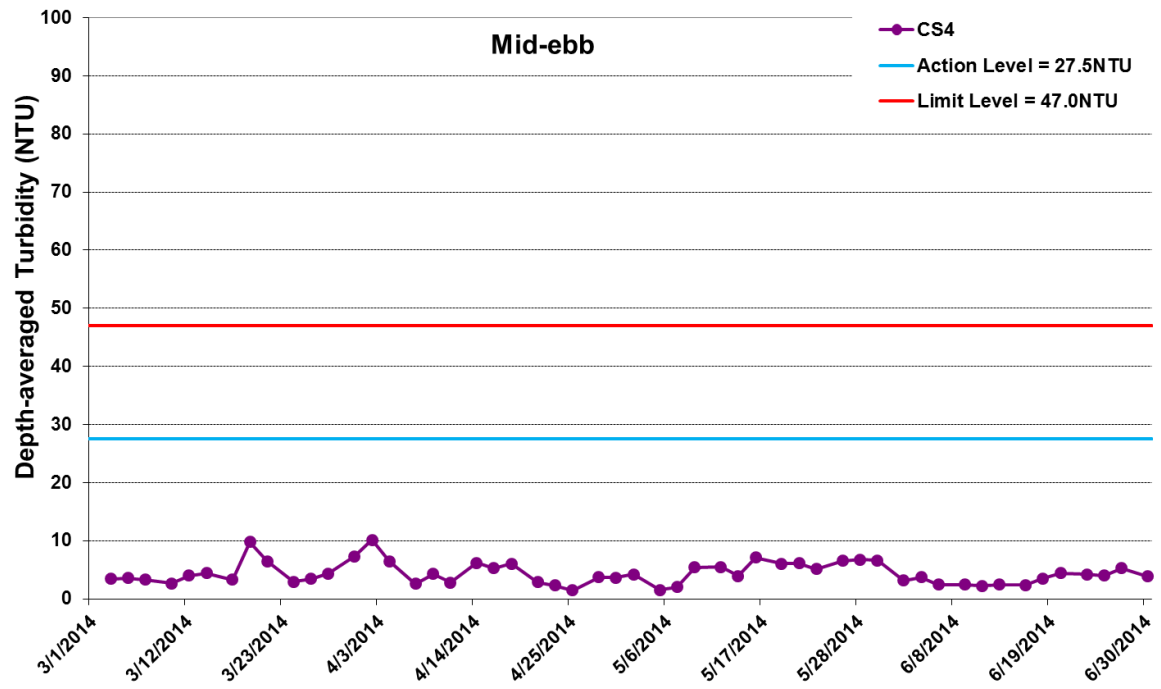


Figure I26 Impact Monitoring - Mean Depth-averaged Level of Turbidity (NTU) between 1 March 2014 and 30 June 2014 at CS4. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine construction activities included: Dredging (3/1/2014 - 6/30/2014); Construction of Temporary Seawalls (3/1/2013 - 6/30/2014); Sheet Piling (3/1/2014 - 6/30/2014); Filling (3/23/2014 - 6/30/2014).



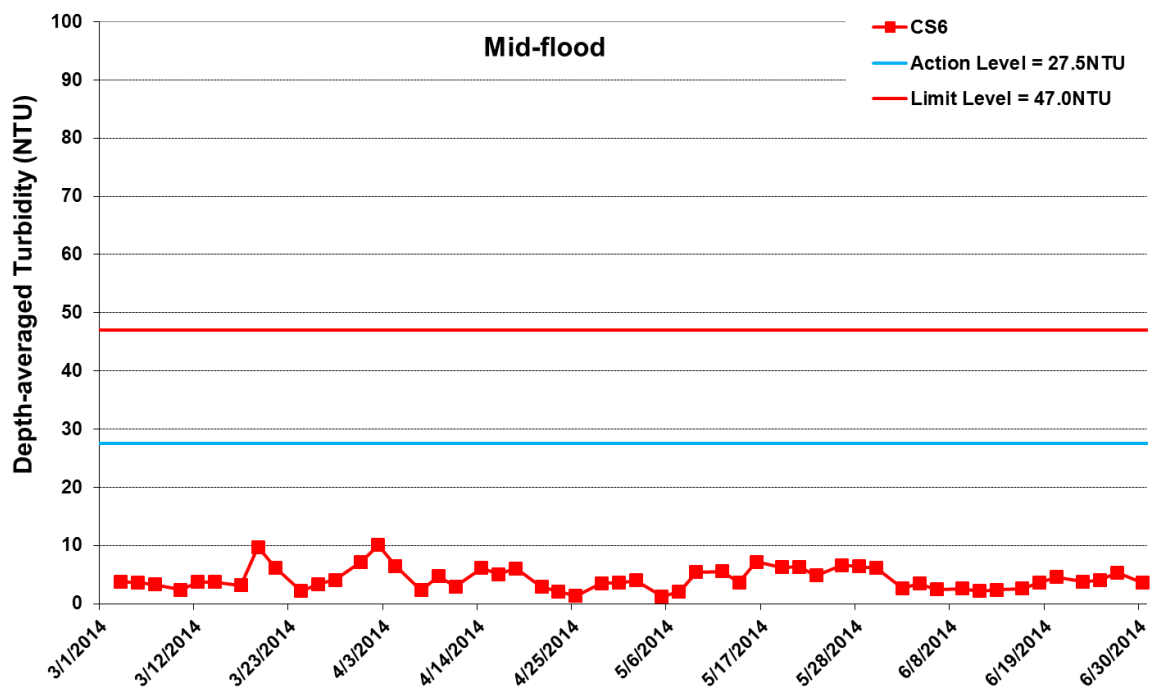
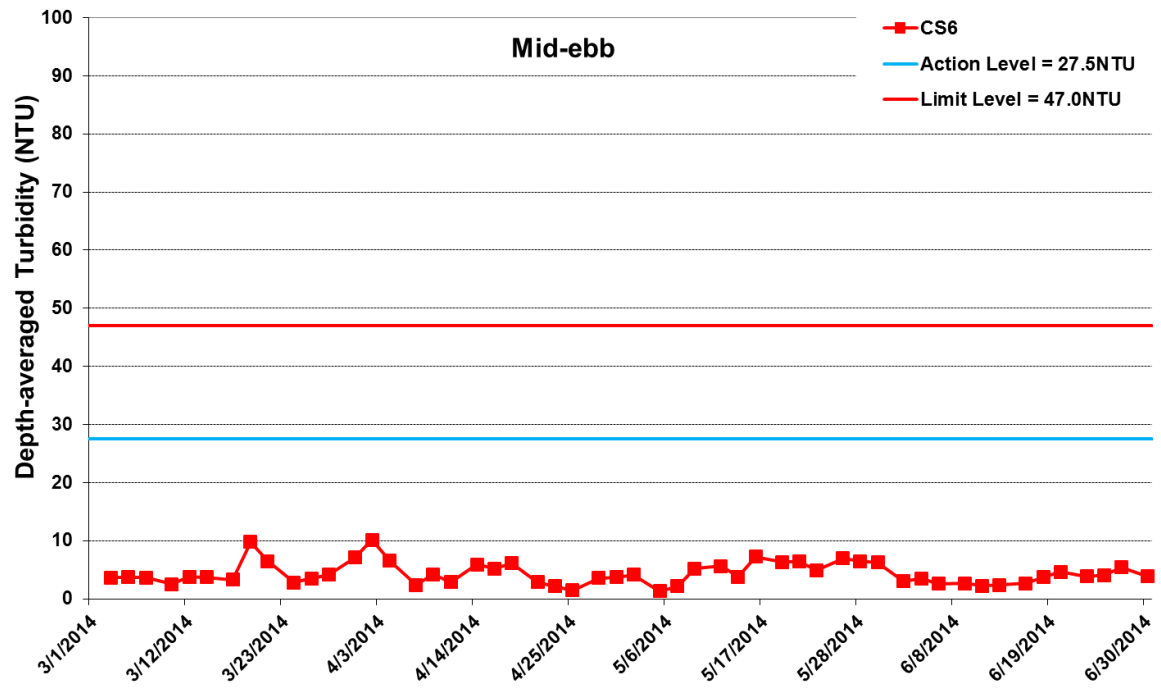


Figure I27 Impact Monitoring - Mean Depth-averaged Level of Turbidity (NTU) between 1 March 2014 and 30 June 2014 at CS6. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine construction activities included: Dredging (3/1/2014 - 6/30/2014); Construction of Temporary Seawalls (3/1/2013 - 6/30/2014); Sheet Piling (3/1/2014 - 6/30/2014); Filling (3/23/2014 - 6/30/2014).





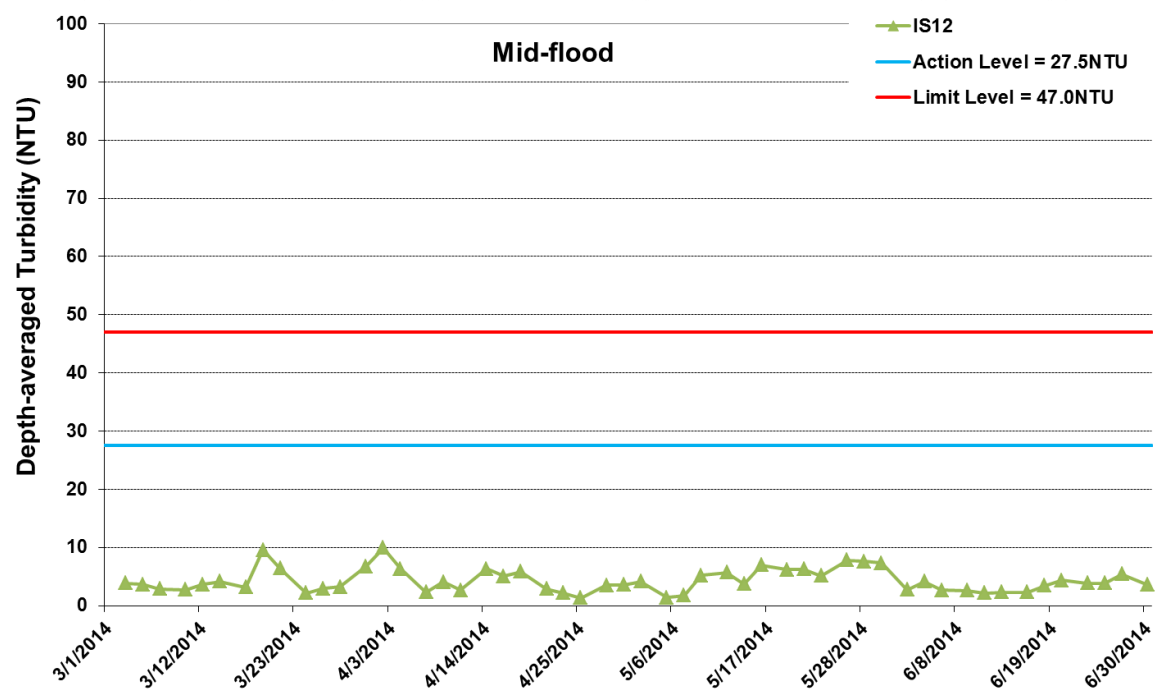
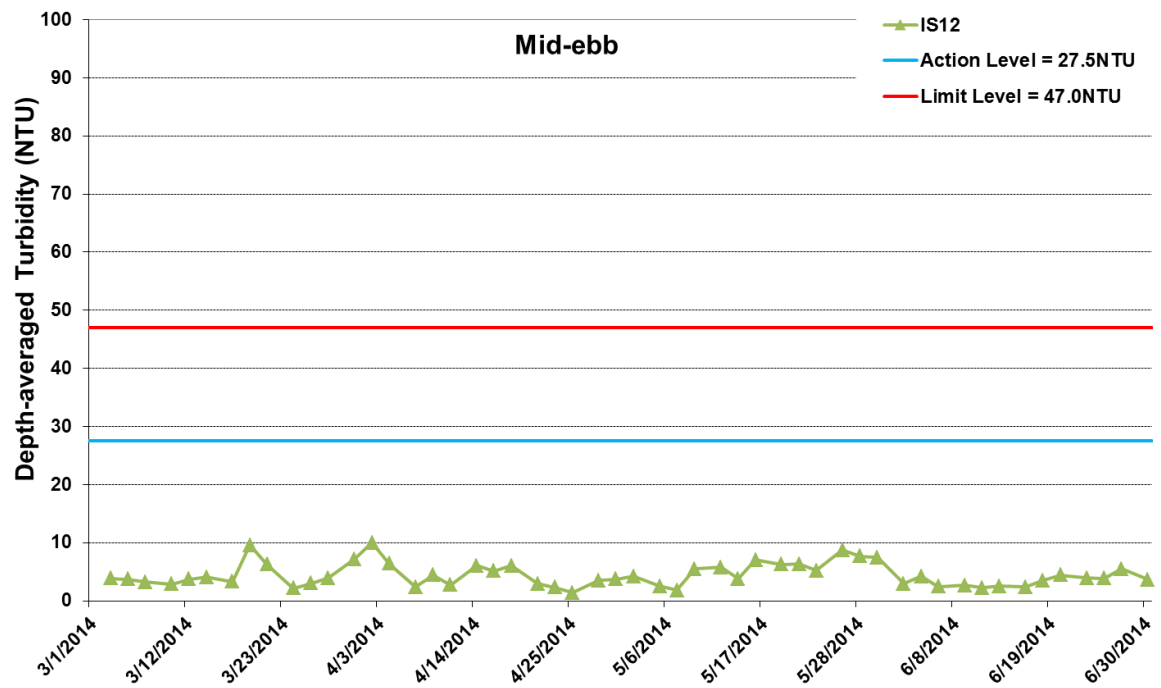


Figure I28 Impact Monitoring - Mean Depth-averaged Level of Turbidity (NTU) between 1 March 2014 and 30 June 2014 at IS12. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine construction activities included: Dredging (3/1/2014 - 6/30/2014); Construction of Temporary Seawalls (3/1/2013 - 6/30/2014); Sheet Piling (3/1/2014 - 6/30/2014); Filling (3/23/2014 - 6/30/2014).



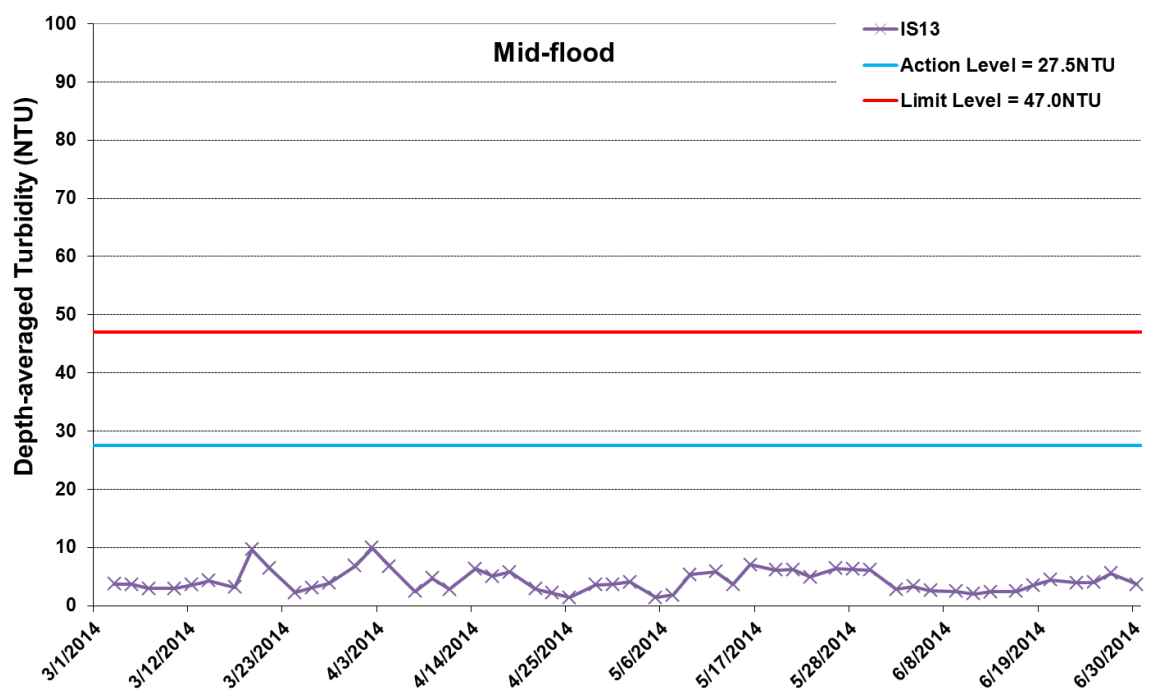
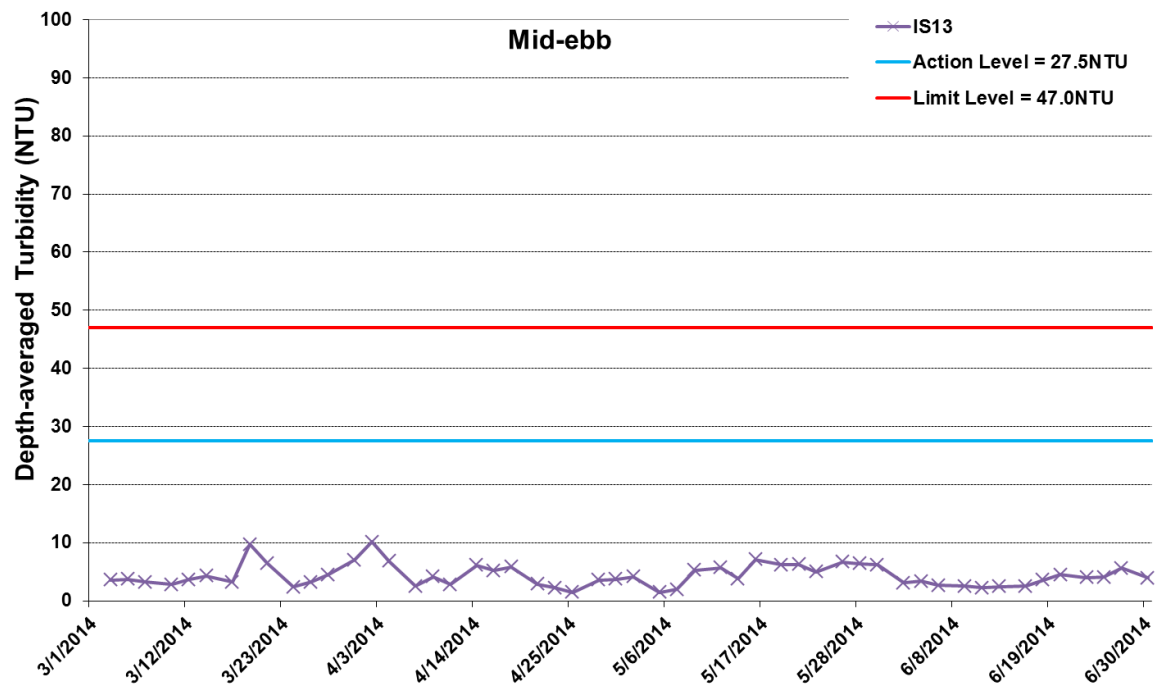


Figure I29 Impact Monitoring - Mean Depth-averaged Level of Turbidity (NTU) between 1 March 2014 and 30 June 2014 at IS13. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine construction activities included: Dredging (3/1/2014 - 6/30/2014); Construction of Temporary Seawalls (3/1/2013 - 6/30/2014); Sheet Piling (3/1/2014 - 6/30/2014); Filling (3/23/2014 - 6/30/2014).



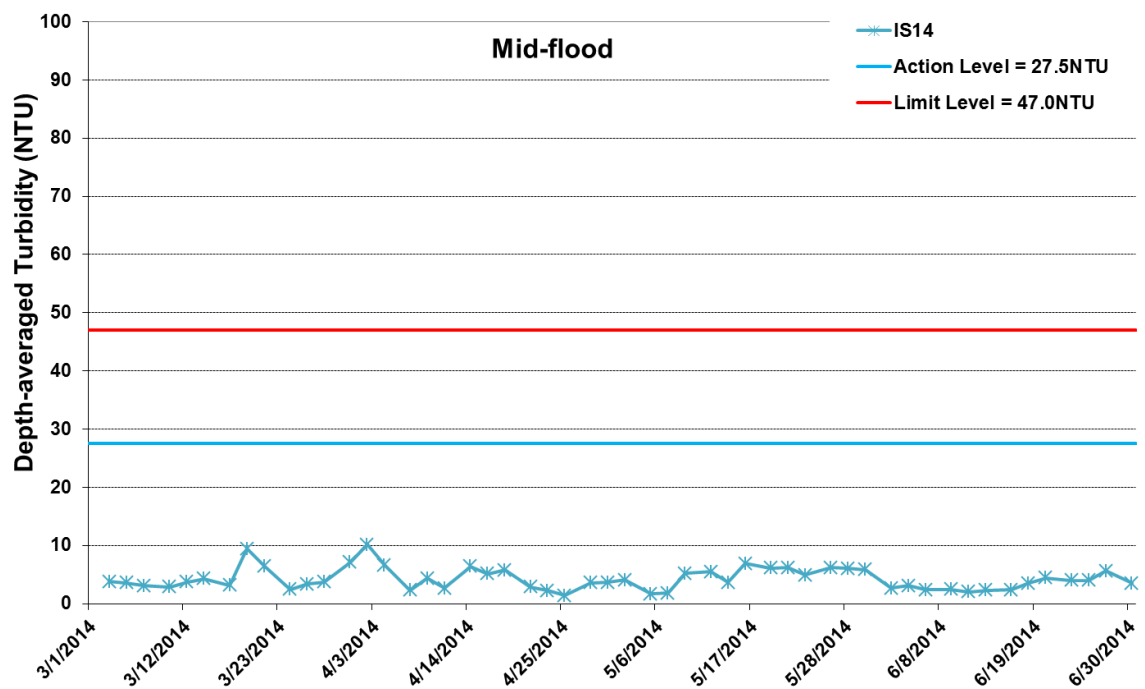
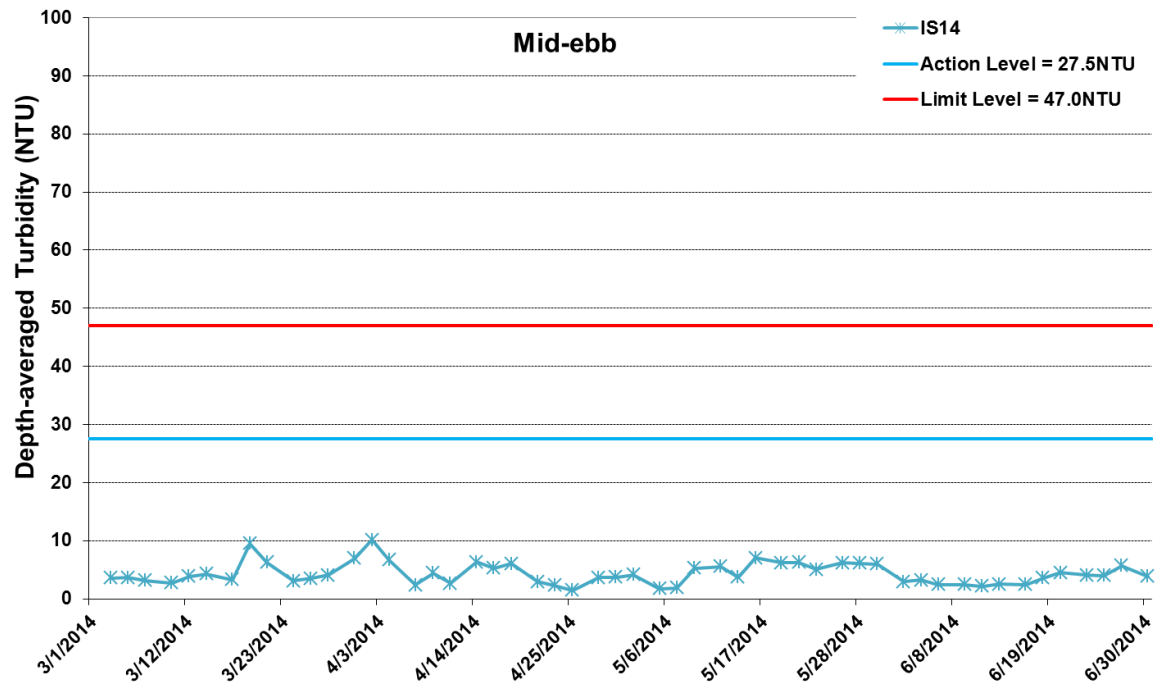


Figure I30 Impact Monitoring - Mean Depth-averaged Level of Turbidity (NTU) between 1 March 2014 and 30 June 2014 at IS14. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine construction activities included: Dredging (3/1/2014 - 6/30/2014); Construction of Temporary Seawalls (3/1/2013 - 6/30/2014); Sheet Piling (3/1/2014 - 6/30/2014); Filling (3/23/2014 - 6/30/2014).



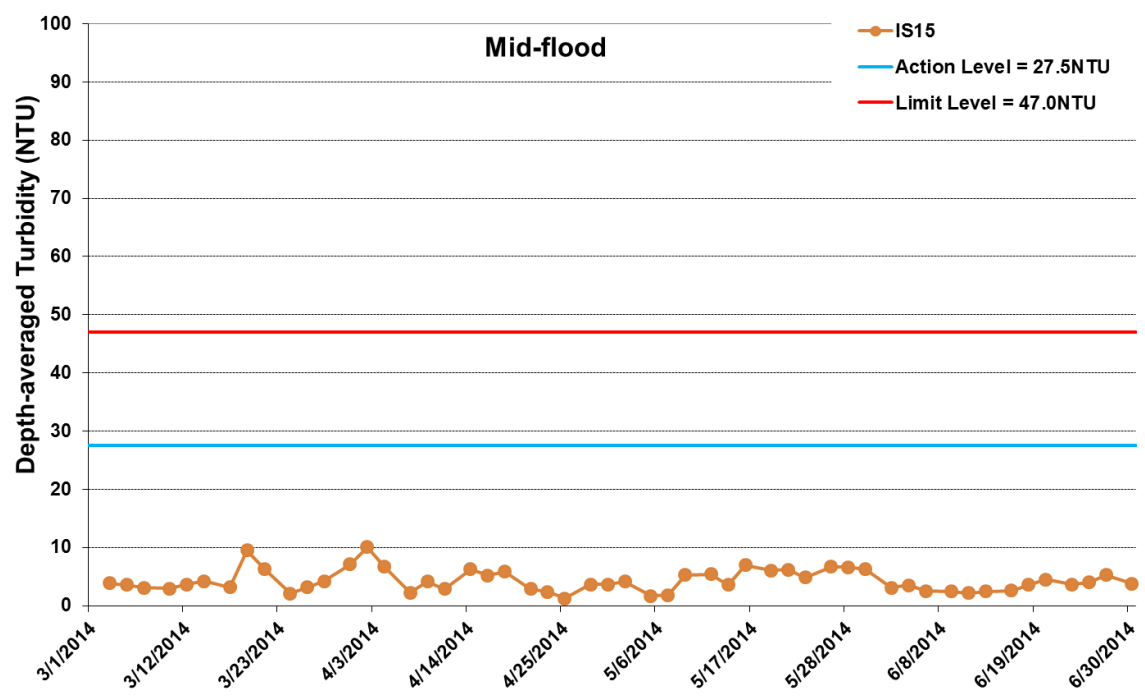
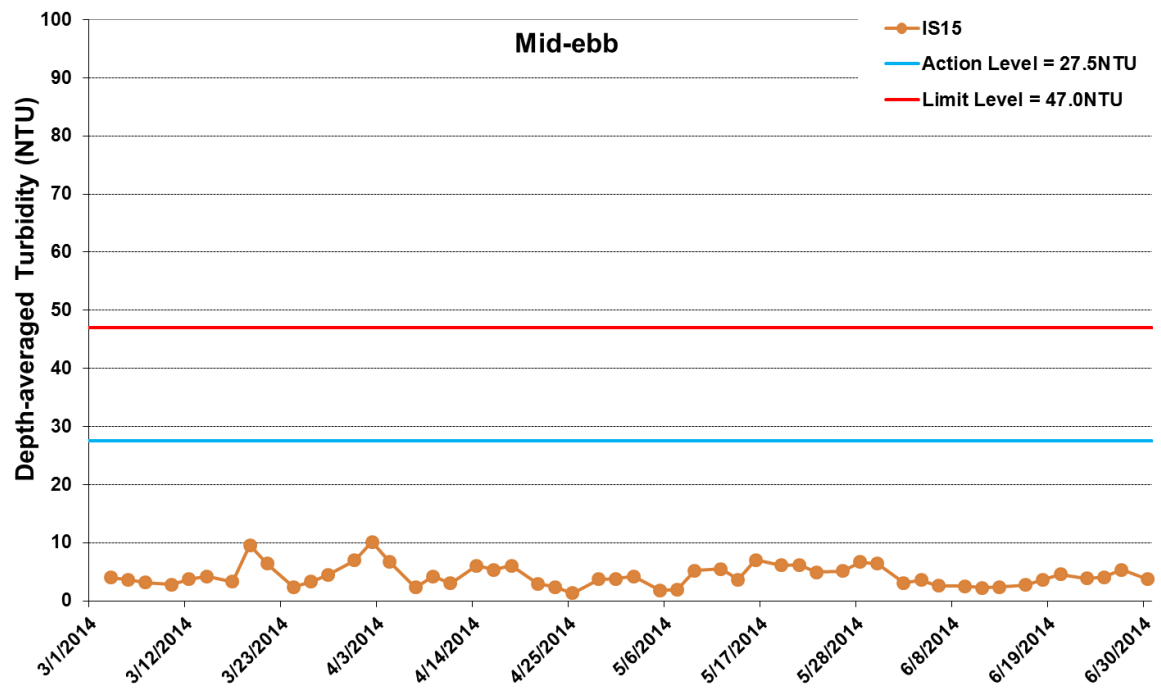


Figure I31 Impact Monitoring - Mean Depth-averaged Level of Turbidity (NTU) between 1 March 2014 and 30 June 2014 at IS15. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine construction activities included: Dredging (3/1/2014 - 6/30/2014); Construction of Temporary Seawalls (3/1/2013 - 6/30/2014); Sheet Piling (3/1/2014 - 6/30/2014); Filling (3/23/2014 - 6/30/2014).



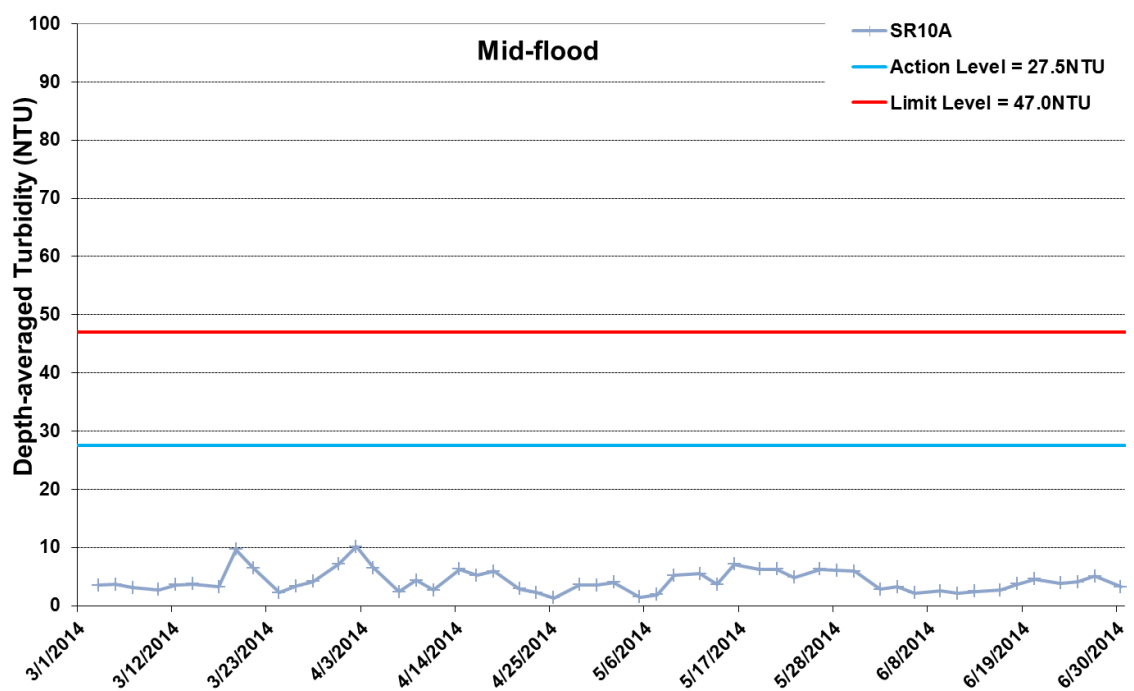
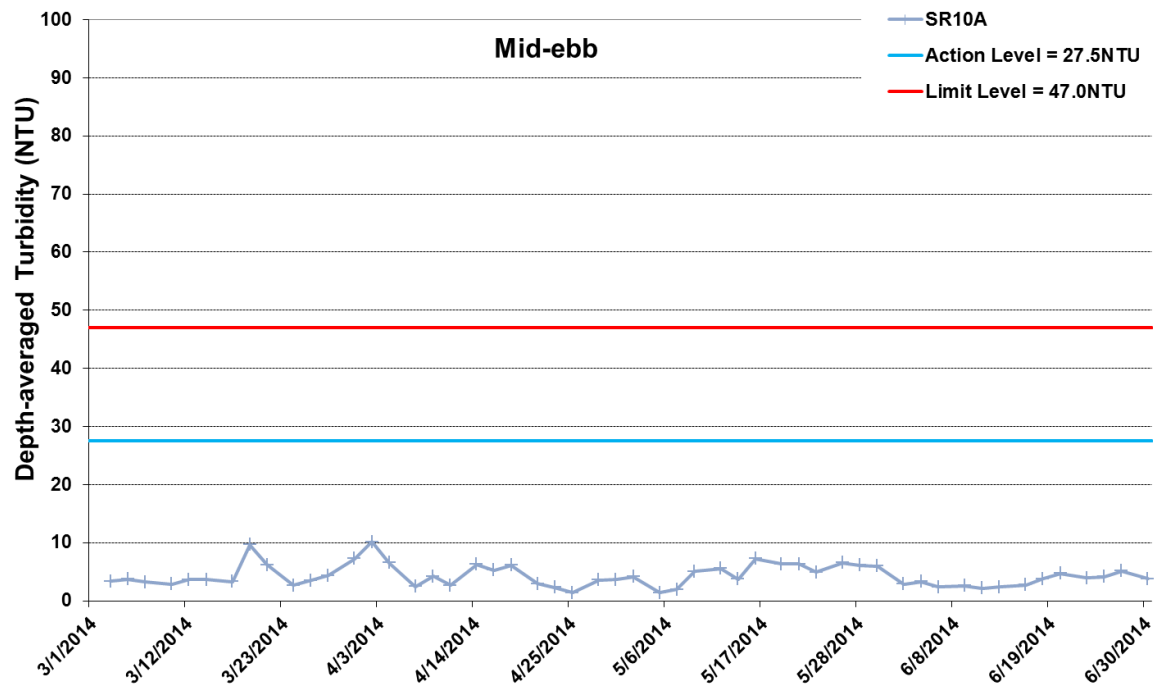


Figure I32 Impact Monitoring - Mean Depth-averaged Level of Turbidity (NTU) between 1 March 2014 and 30 June 2014 at SR10A. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine construction activities included: Dredging (3/1/2014 - 6/30/2014); Construction of Temporary Seawalls (3/1/2013 - 6/30/2014); Sheet Piling (3/1/2014 - 6/30/2014); Filling (3/23/2014 - 6/30/2014).



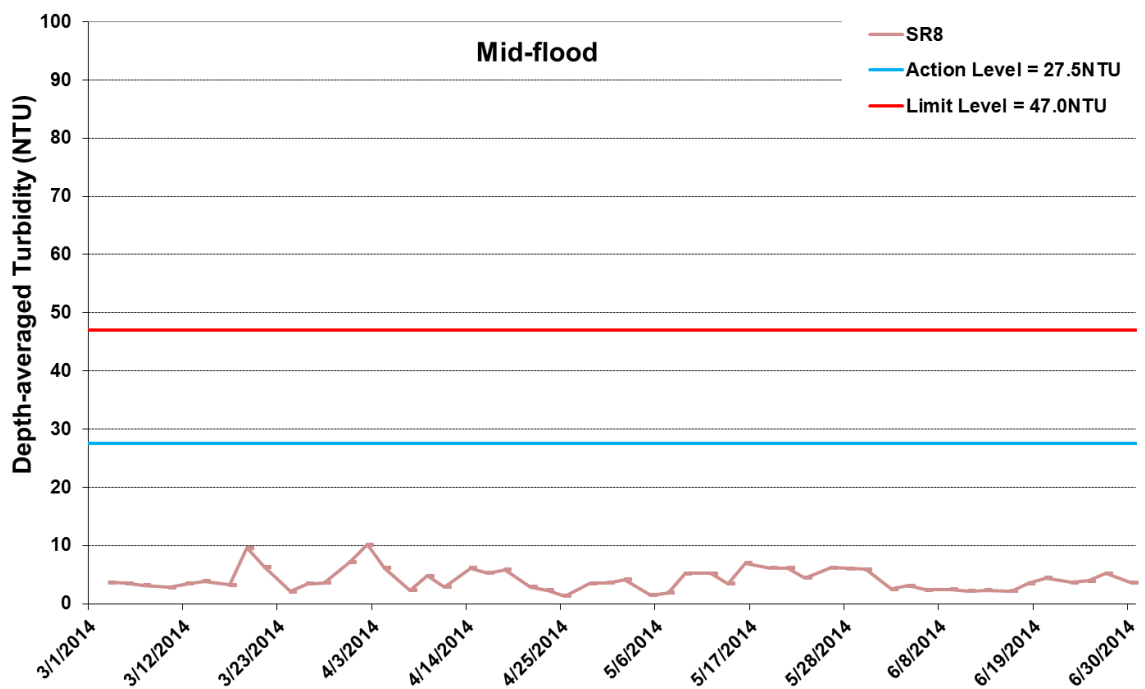
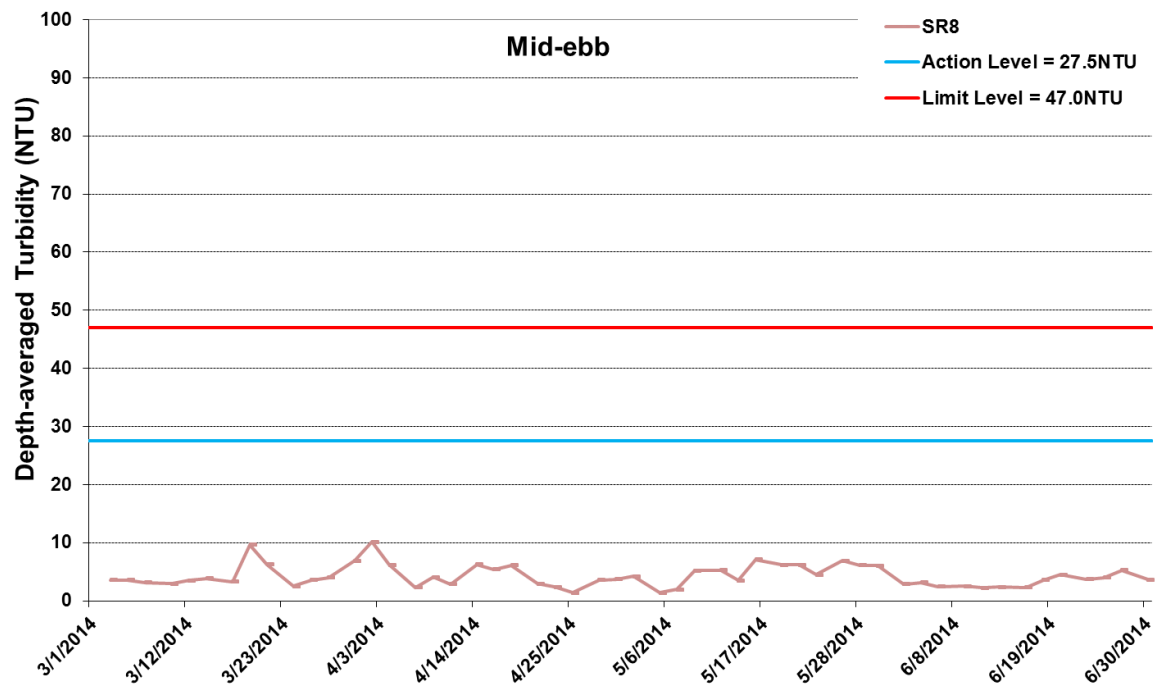


Figure I33 Impact Monitoring - Mean Depth-averaged Level of Turbidity (NTU) between 1 March 2014 and 30 June 2014 at SR8. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine construction activities included: Dredging (3/1/2014 - 6/30/2014); Construction of Temporary Seawalls (3/1/2013 - 6/30/2014); Sheet Piling (3/1/2014 - 6/30/2014); Filling (3/23/2014 - 6/30/2014).



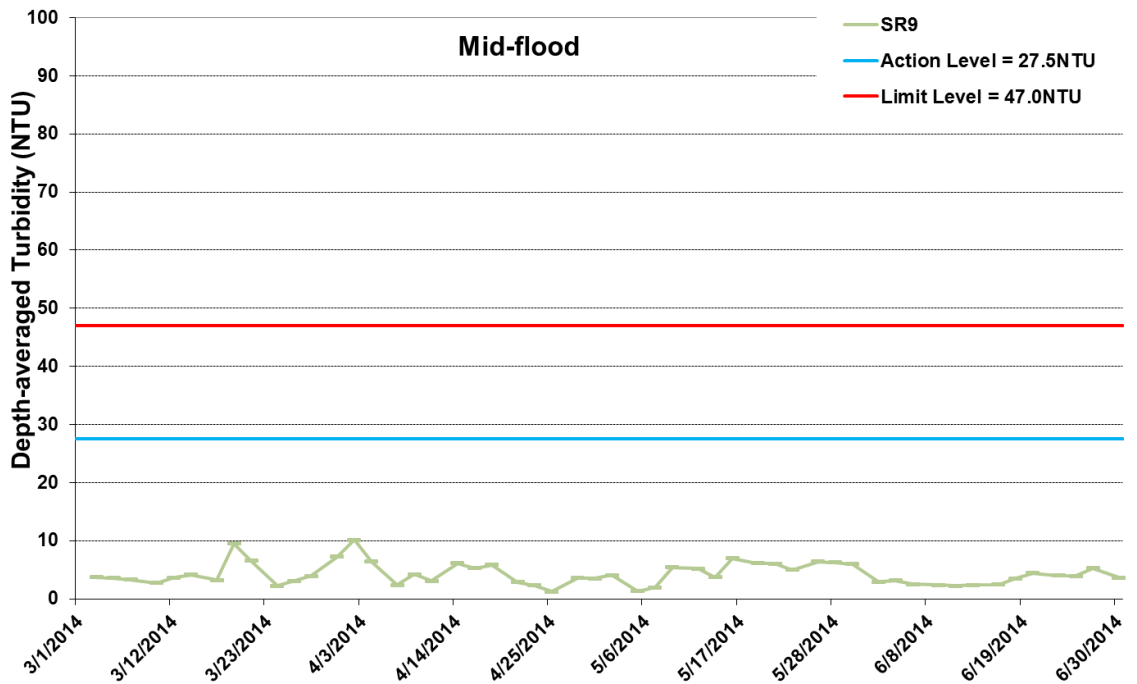
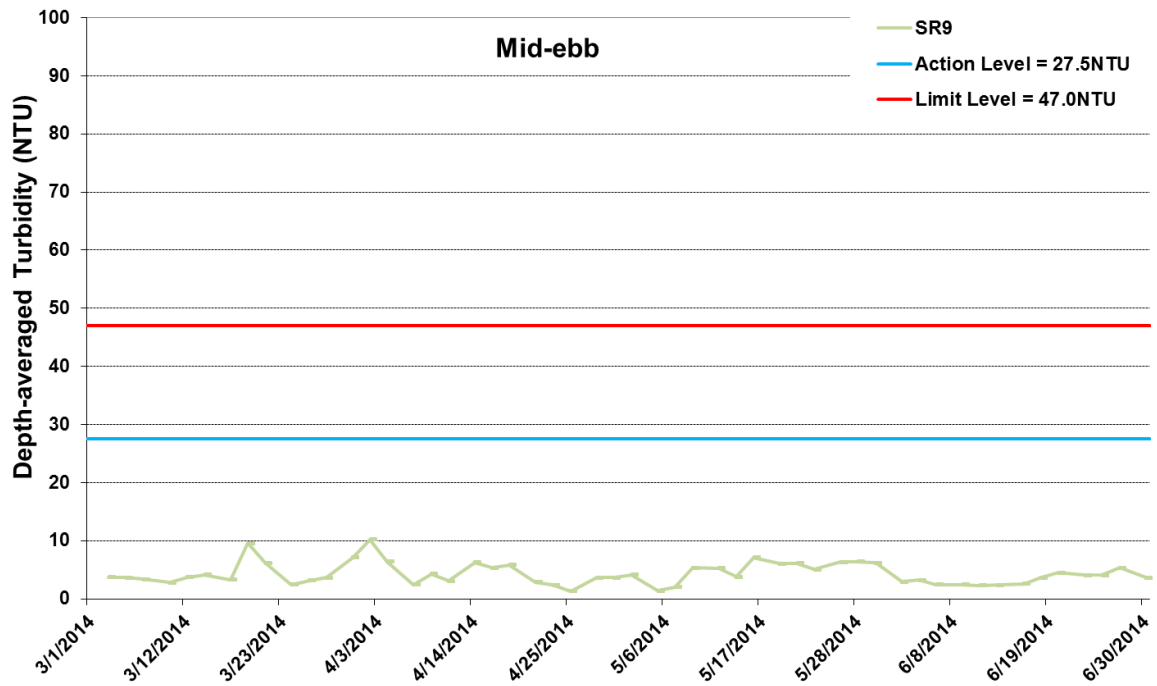


Figure I34 Impact Monitoring - Mean Depth-averaged Level of Turbidity (NTU) between 1 March 2014 and 30 June 2014 at SR9. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine construction activities included: Dredging (3/1/2014 - 6/30/2014); Construction of Temporary Seawalls (3/1/2013 - 6/30/2014); Sheet Piling (3/1/2014 - 6/30/2014); Filling (3/23/2014 - 6/30/2014).



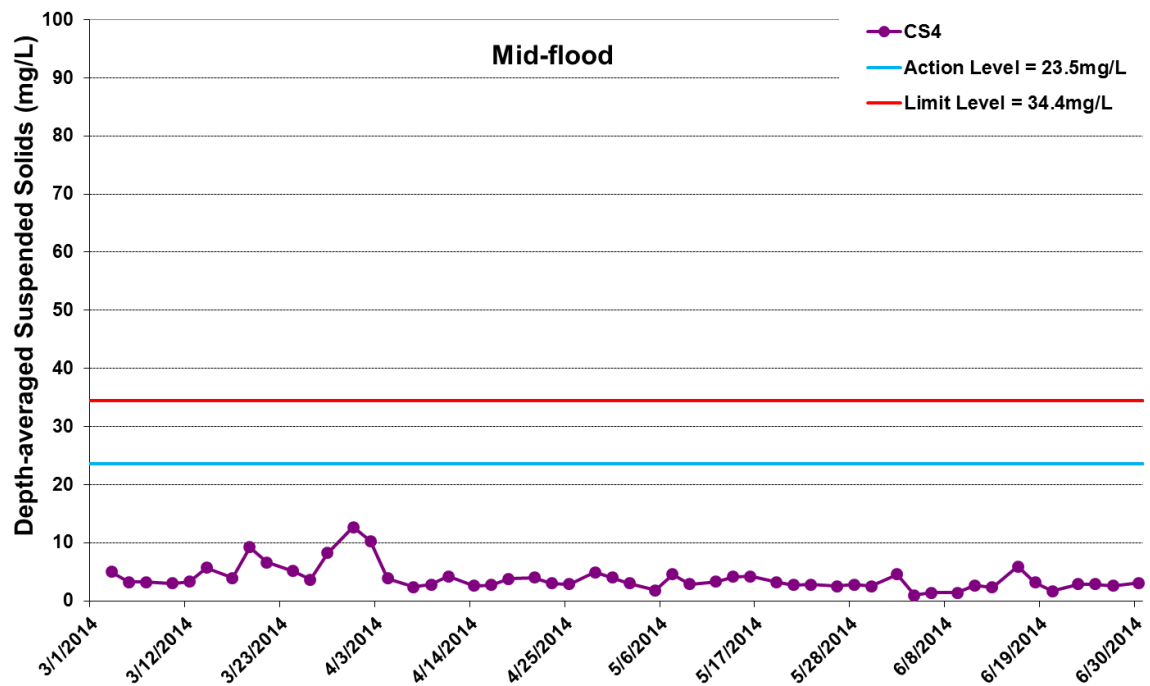
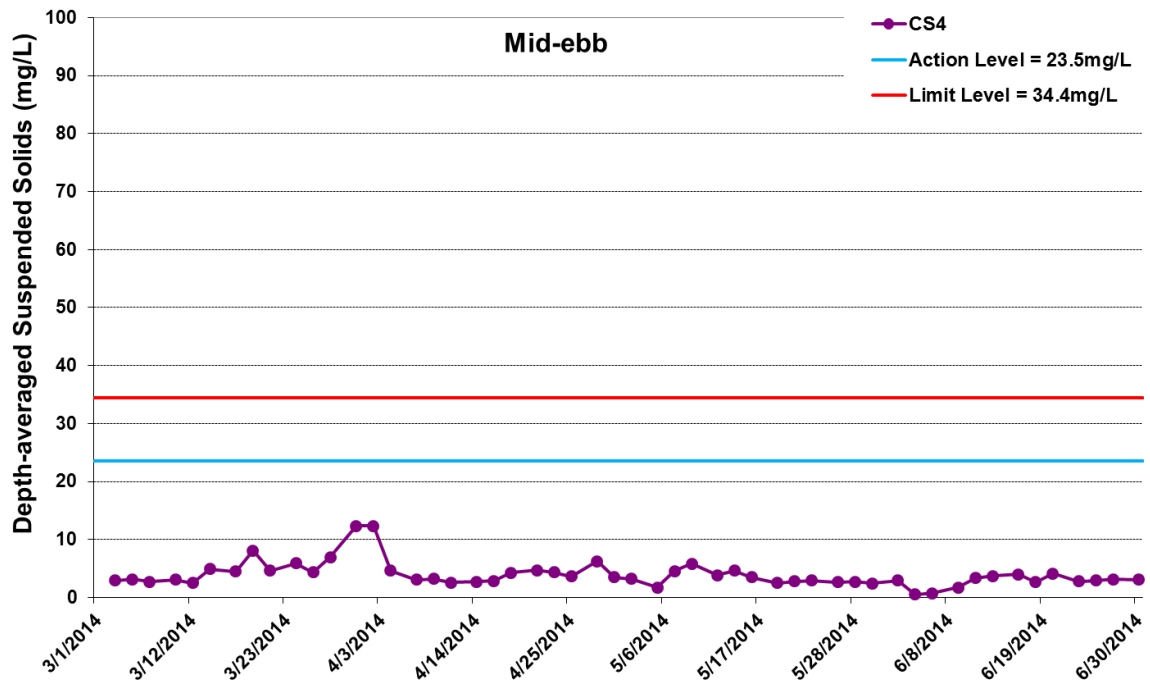


Figure I35 Impact Monitoring - Mean Depth-averaged Level of Suspended Solids (mg/L) between 1 March 2014 and 30 June 2014 at CS4. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine construction activities included: Dredging (3/1/2014 - 6/30/2014); Construction of Temporary Seawalls (3/1/2013 - 6/30/2014); Sheet Piling (3/1/2014 - 6/30/2014); Filling (3/23/2014 - 6/30/2014).





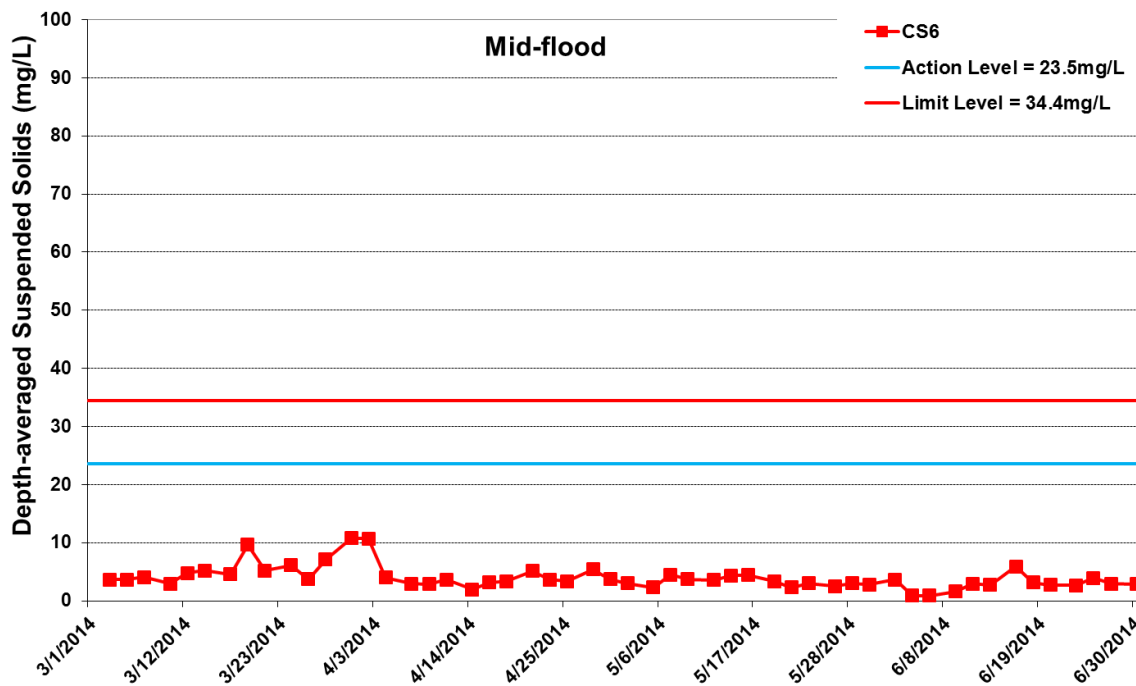
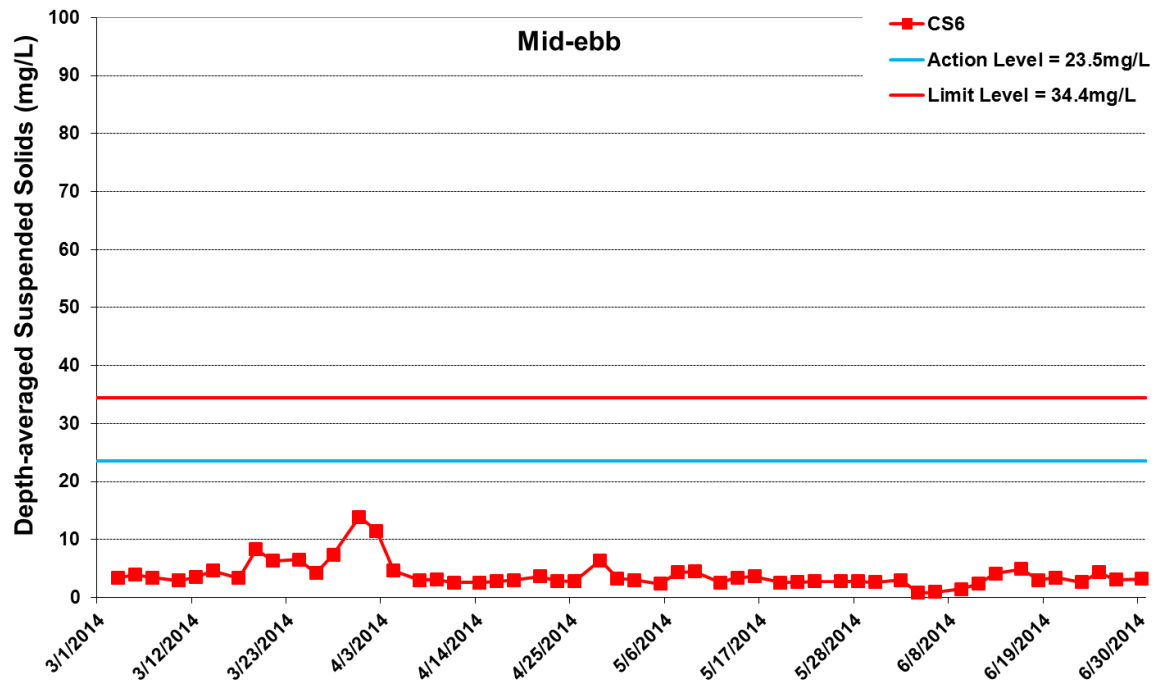


Figure I36 Impact Monitoring - Mean Depth-averaged Level of Suspended Solids (mg/L) between 1 March 2014 and 30 June 2014 at CS6. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine construction activities included: Dredging (3/1/2014 - 6/30/2014); Construction of Temporary Seawalls (3/1/2013 - 6/30/2014); Sheet Piling (3/1/2014 - 6/30/2014); Filling (3/23/2014 - 6/30/2014).



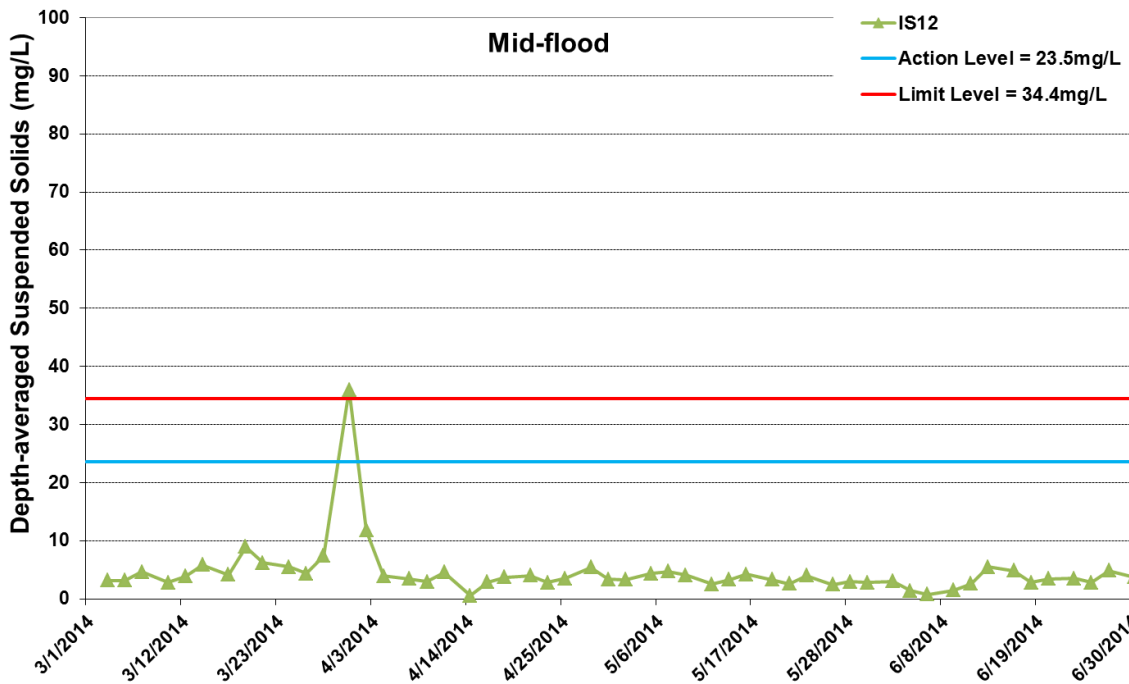
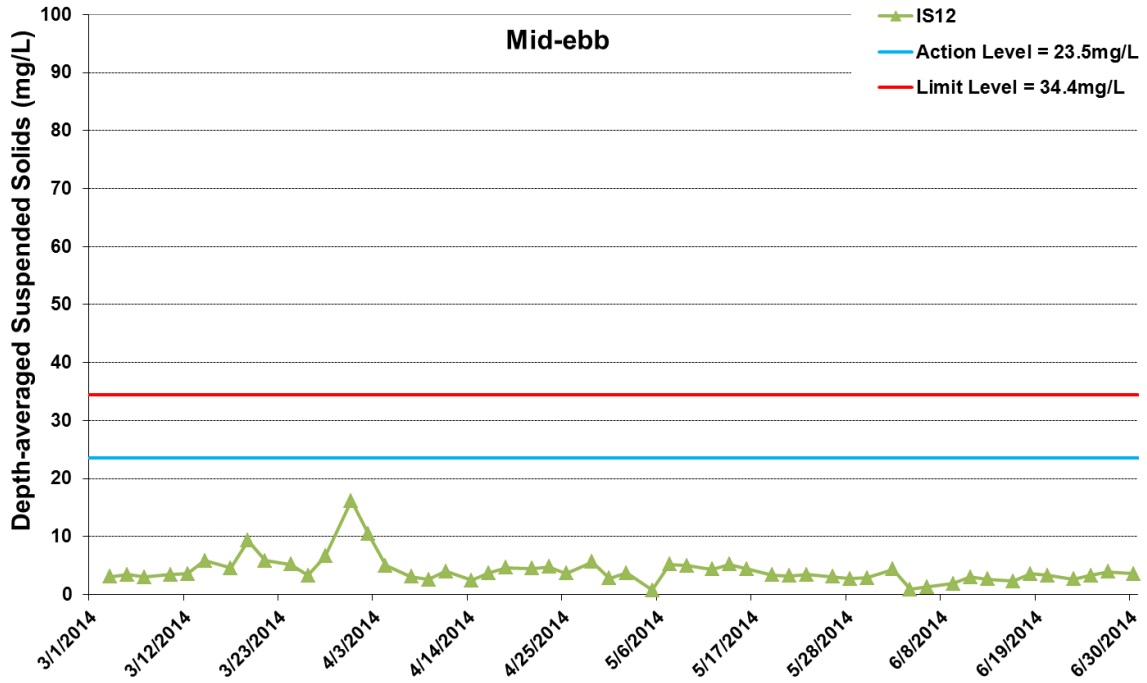


Figure I37 Impact Monitoring - Mean Depth-averaged Level of Suspended Solids (mg/L) between 1 March 2014 and 30 June 2014 at IS12. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine construction activities included: Dredging (3/1/2014 - 6/30/2014); Construction of Temporary Seawalls (3/1/2013 - 6/30/2014); Sheet Piling (3/1/2014 - 6/30/2014); Filling (3/23/2014 - 6/30/2014).



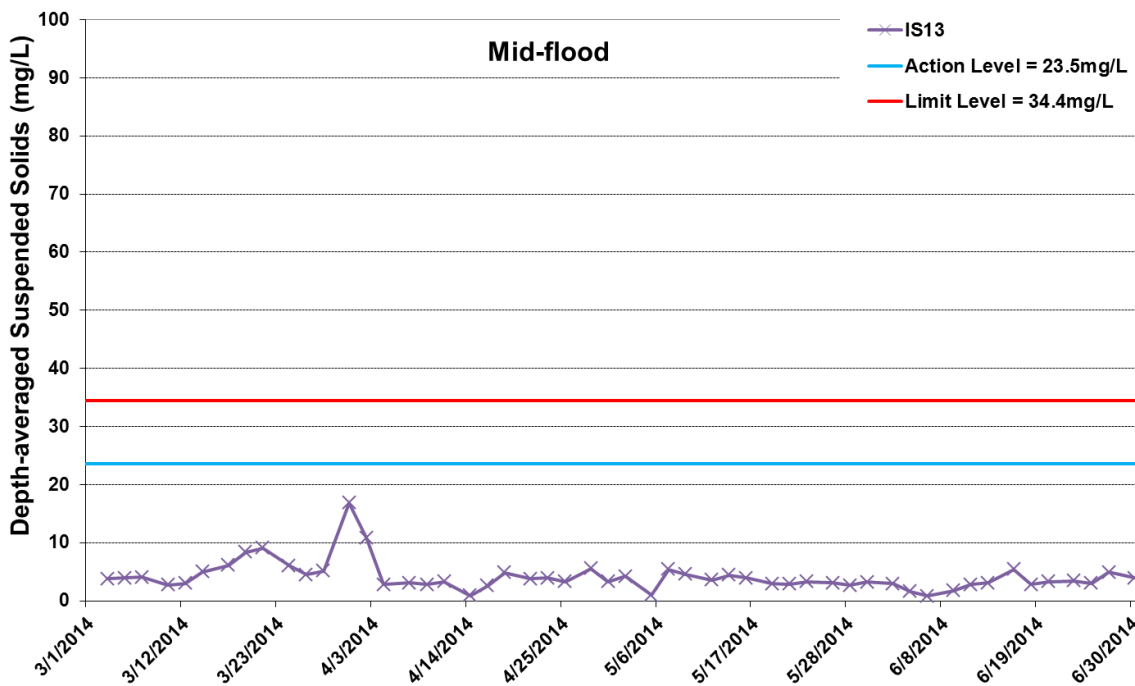
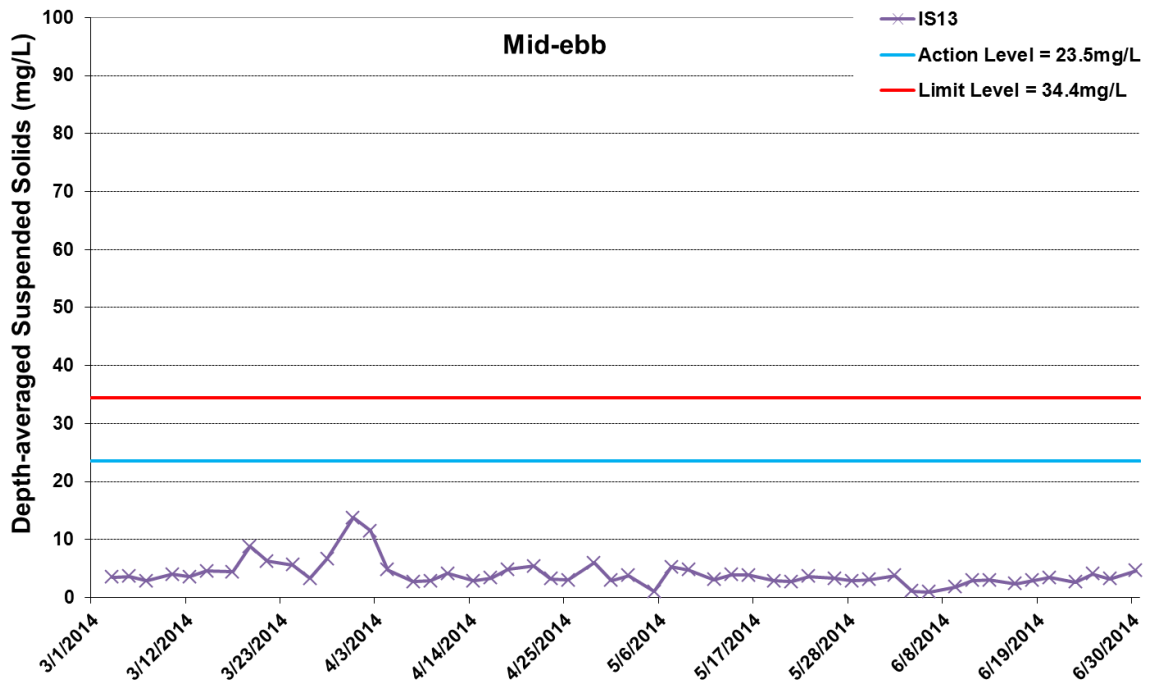


Figure I38 Impact Monitoring - Mean Depth-averaged Level of Suspended Solids (mg/L) between 1 March 2014 and 30 June 2014 at IS13. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine construction activities included: Dredging (3/1/2014 - 6/30/2014); Construction of Temporary Seawalls (3/1/2013 - 6/30/2014); Sheet Piling (3/1/2014 - 6/30/2014); Filling (3/23/2014 - 6/30/2014).



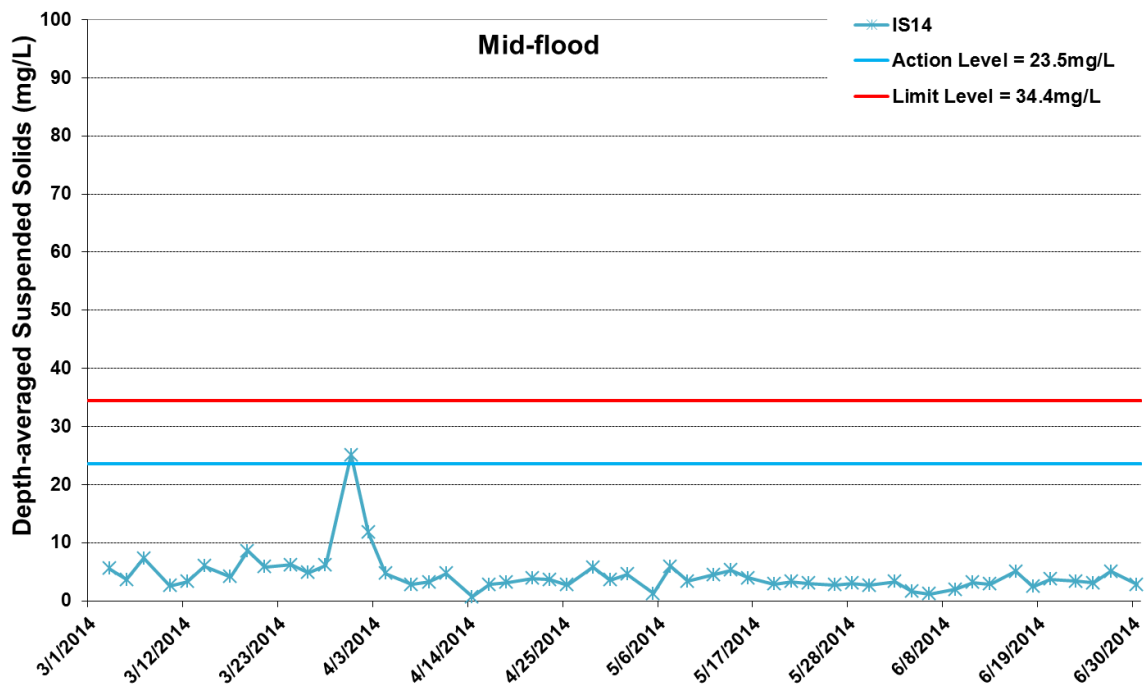
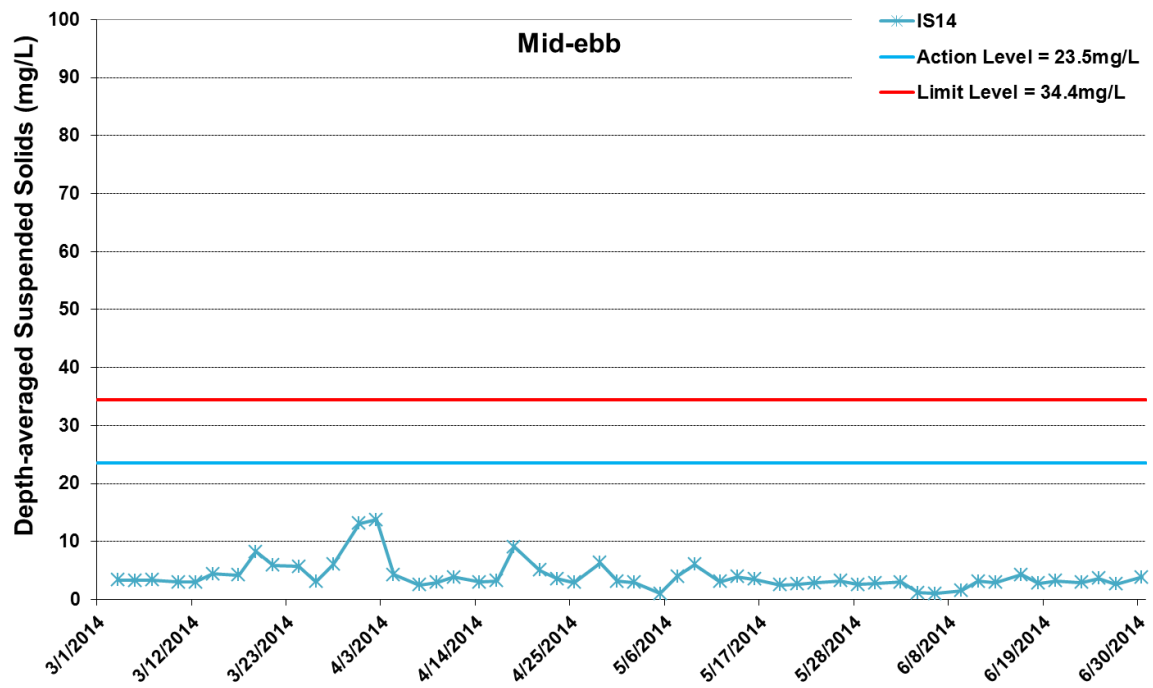


Figure I39 Impact Monitoring - Mean Depth-averaged Level of Suspended Solids (mg/L) between 1 March 2014 and 30 June 2014 at IS14. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine construction activities included: Dredging (3/1/2014 - 6/30/2014); Construction of Temporary Seawalls (3/1/2013 - 6/30/2014); Sheet Piling (3/1/2014 - 6/30/2014); Filling (3/23/2014 - 6/30/2014).



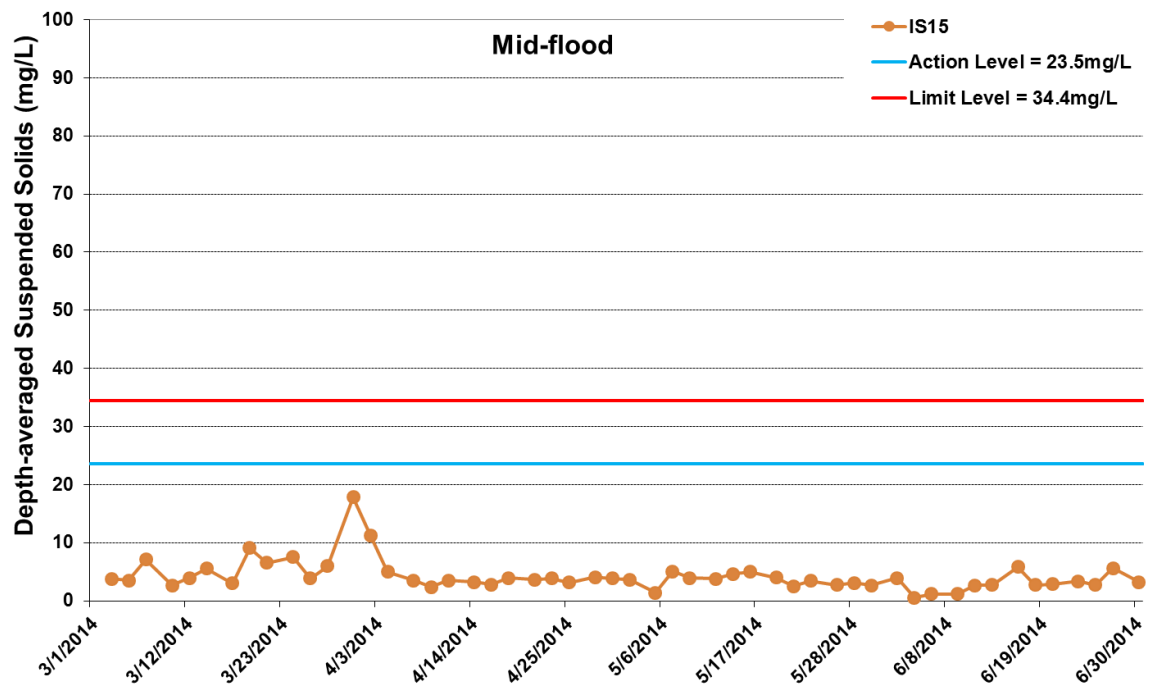
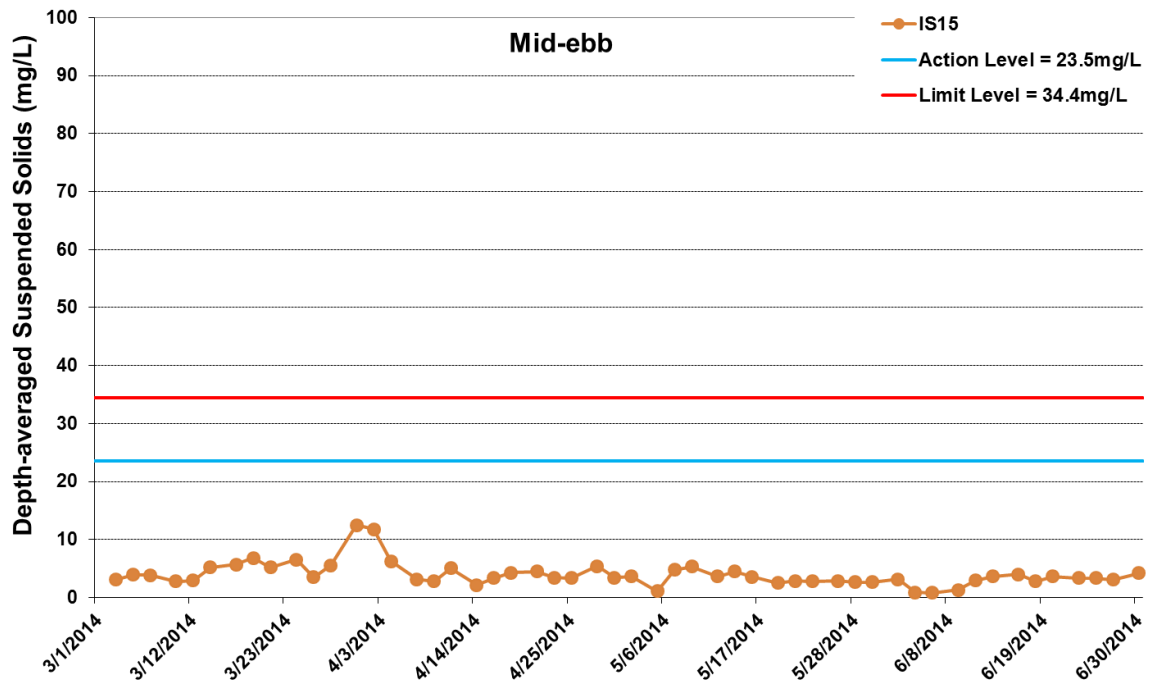


Figure I40 Impact Monitoring - Mean Depth-averaged Level of Suspended Solids (mg/L) between 1 March 2014 and 30 June 2014 at IS15. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine construction activities included: Dredging (3/1/2014 - 6/30/2014); Construction of Temporary Seawalls (3/1/2013 - 6/30/2014); Sheet Piling (3/1/2014 - 6/30/2014); Filling (3/23/2014 - 6/30/2014).



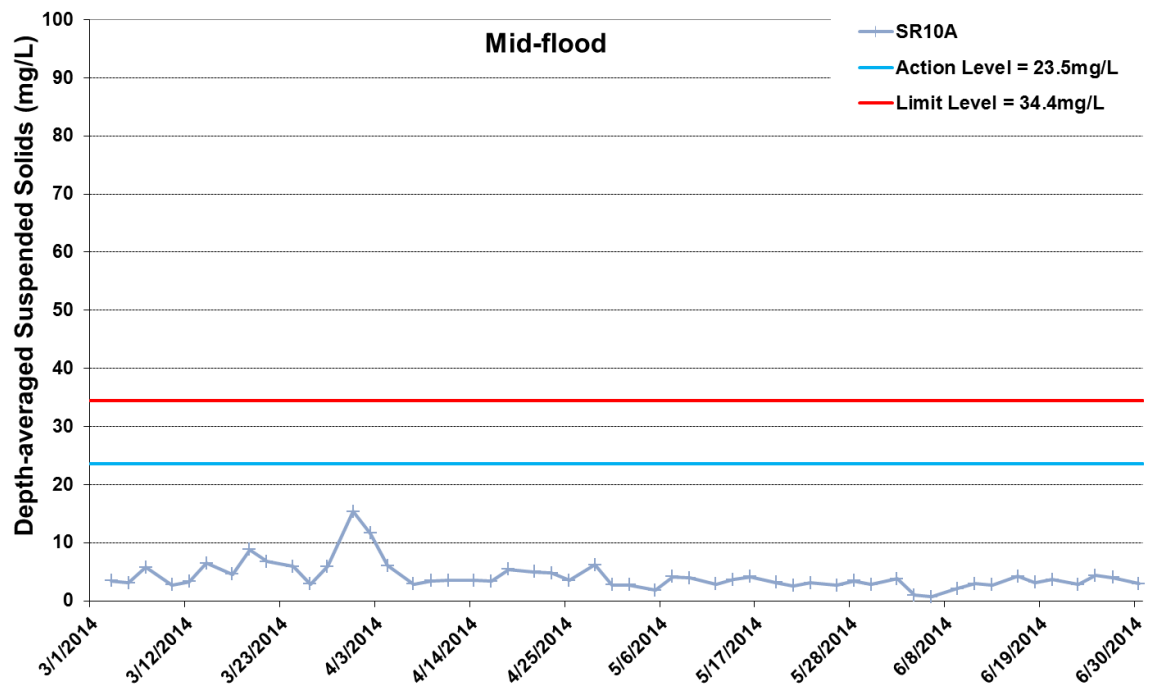
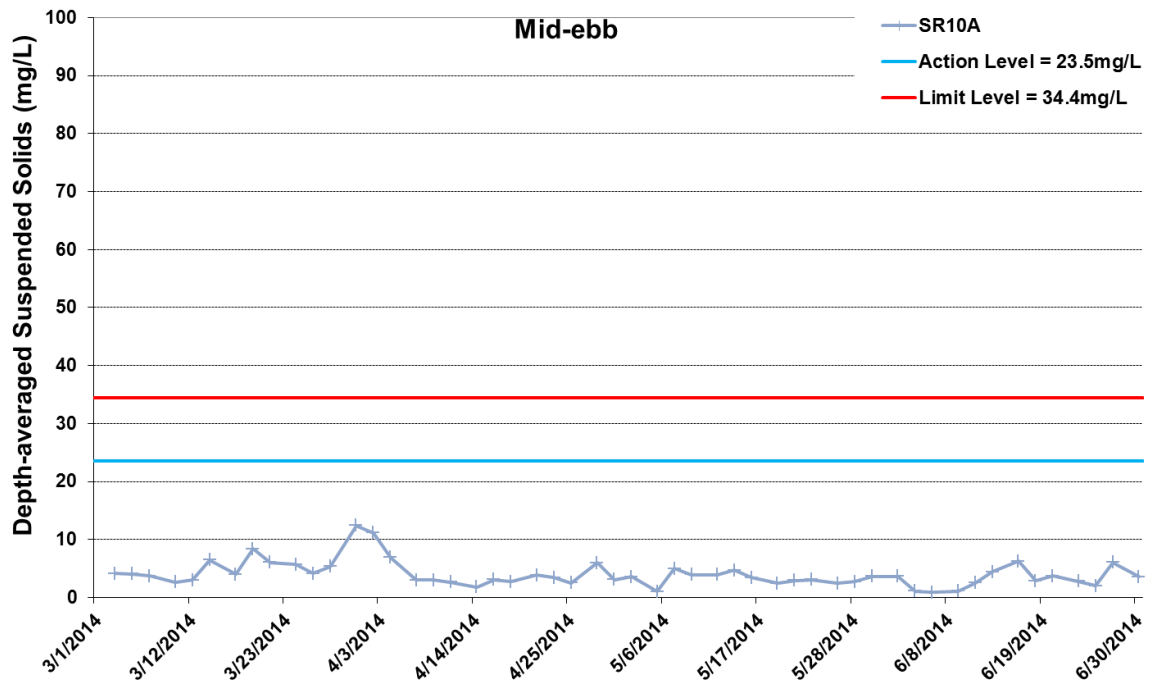


Figure I41 Impact Monitoring - Mean Depth-averaged Level of Suspended Solids (mg/L) between 1 March 2014 and 30 June 2014 at SR10A. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine construction activities included: Dredging (3/1/2014 - 6/30/2014); Construction of Temporary Seawalls (3/1/2013 - 6/30/2014); Sheet Piling (3/1/2014 - 6/30/2014); Filling (3/23/2014 - 6/30/2014).



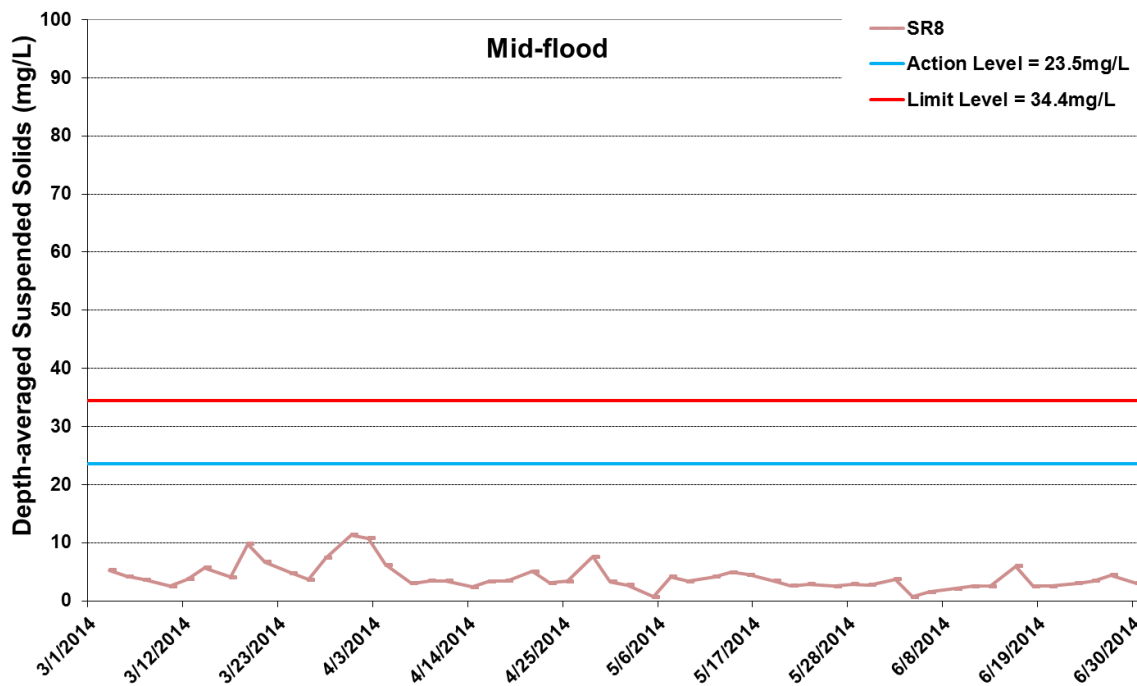
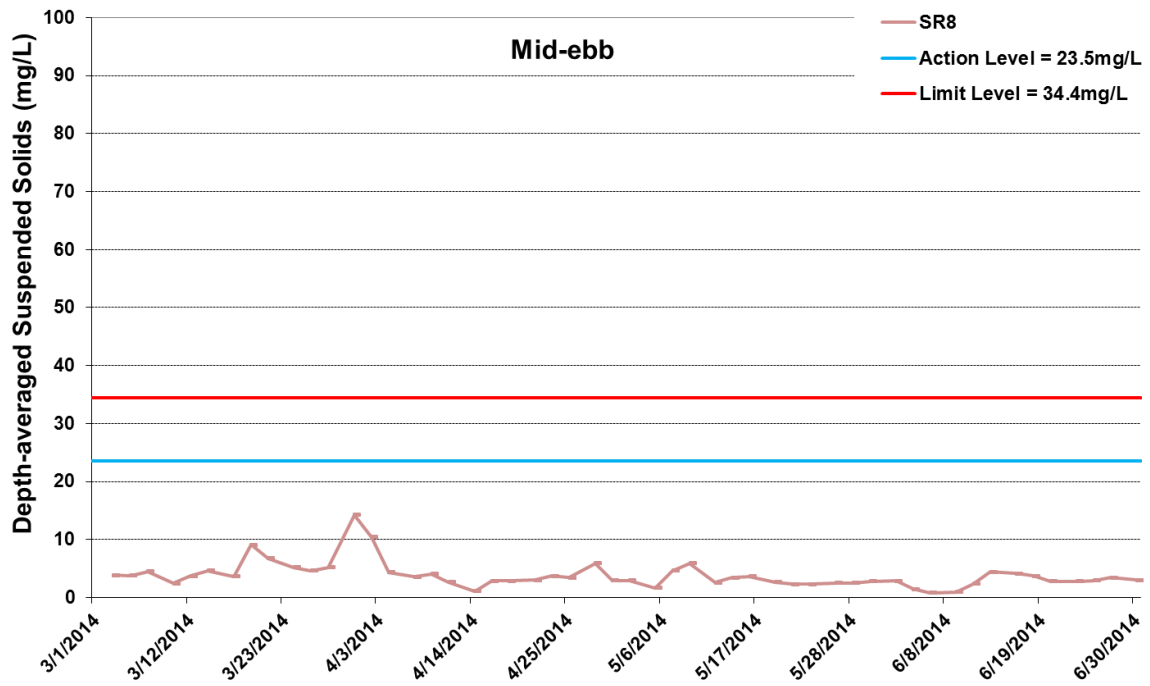


Figure I42 Impact Monitoring - Mean Depth-averaged Level of Suspended Solids (mg/L) between 1 March 2014 and 30 June 2014 at SR8. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine construction activities included: Dredging (3/1/2014 - 6/30/2014); Construction of Temporary Seawalls (3/1/2013 - 6/30/2014); Sheet Piling (3/1/2014 - 6/30/2014); Filling (3/23/2014 - 6/30/2014).



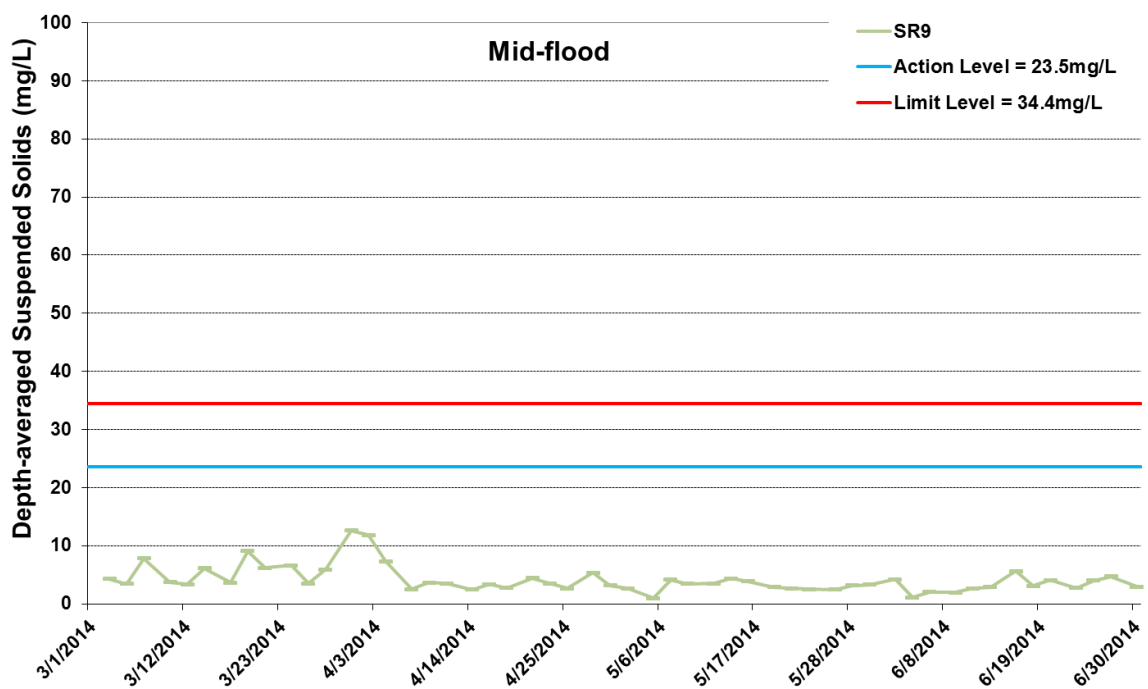
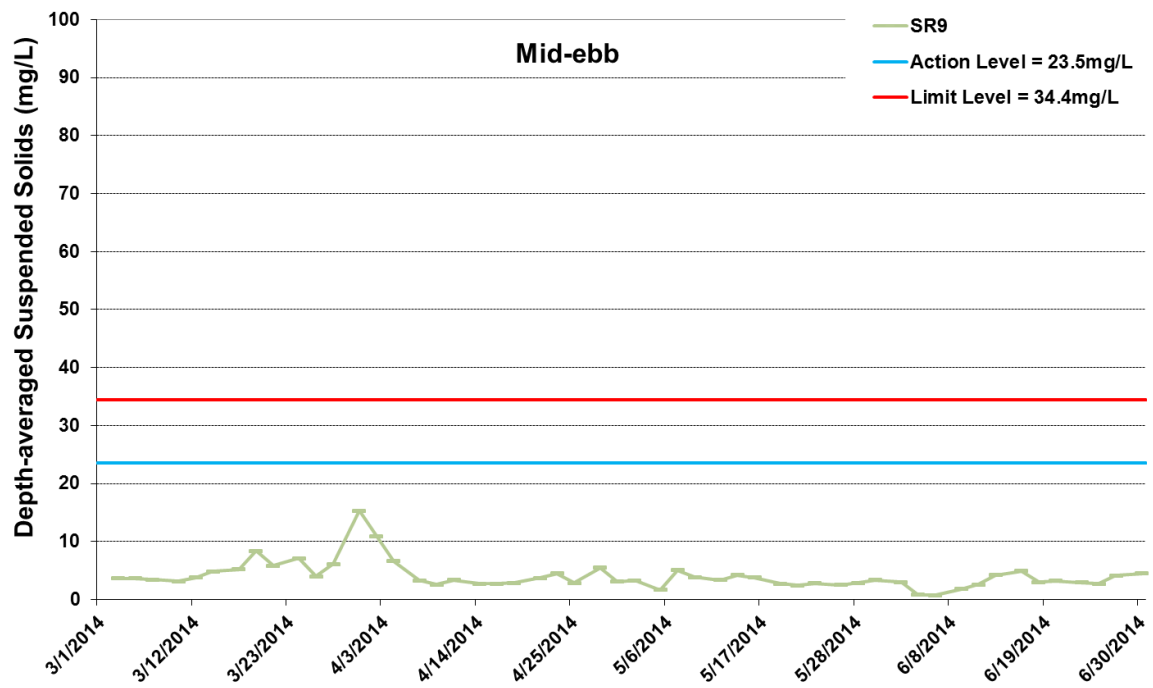


Figure I43 Impact Monitoring - Mean Depth-averaged Level of Suspended Solids (mg/L) between 1 March 2014 and 30 June 2014 at SR9. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine construction activities included: Dredging (3/1/2014 - 6/30/2014); Construction of Temporary Seawalls (3/1/2013 - 6/30/2014); Sheet Piling (3/1/2014 - 6/30/2014); Filling (3/23/2014 - 6/30/2014).





Project	Works	Date	Tide	Weather	Sea Condition	Stat	Level	Water Depth	Lev_Cod	Replicate	Time	Temp(°C)	pH	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)
TMCLKL	HY/2012/08	2014-06-02	Mid-Flood	Fine	Small Wave	CS4	Surface	1	1	1	10:15	28.3	7.77	12	6.24	2.32	4.7
TMCLKL	HY/2012/08	2014-06-02	Mid-Flood	Fine	Small Wave	CS4	Surface	1	1	2	10:15	28.3	7.79	12	6.26	2.34	3.6
TMCLKL	HY/2012/08	2014-06-02	Mid-Flood	Fine	Small Wave	CS4	Middle	12.3	2	1	10:15	28.2	7.72	12.2	6.48	2.76	4.4
TMCLKL	HY/2012/08	2014-06-02	Mid-Flood	Fine	Small Wave	CS4	Middle	12.3	2	2	10:15	28.2	7.71	12.3	6.4	2.78	4.3
TMCLKL	HY/2012/08	2014-06-02	Mid-Flood	Fine	Small Wave	CS4	Bottom	23.6	3	1	10:15	28.2	7.68	12.4	6.06	3.12	4.9
TMCLKL	HY/2012/08	2014-06-02	Mid-Flood	Fine	Small Wave	CS4	Bottom	23.6	3	2	10:15	28.1	7.69	12.3	6	3.13	5.3
TMCLKL	HY/2012/08	2014-06-02	Mid-Flood	Fine	Small Wave	CS6	Surface	1	1	1	07:50	28.3	7.68	11.8	6.29	2.42	3.6
TMCLKL	HY/2012/08	2014-06-02	Mid-Flood	Fine	Small Wave	CS6	Surface	1	1	2	07:50	28.3	7.67	11.9	6.24	2.44	3.6
TMCLKL	HY/2012/08	2014-06-02	Mid-Flood	Fine	Small Wave	CS6	Middle	7.5	2	1	07:50	28.2	7.7	12.1	6.07	2.66	3
TMCLKL	HY/2012/08	2014-06-02	Mid-Flood	Fine	Small Wave	CS6	Middle	7.5	2	2	07:50	28.2	7.72	12.2	6.01	2.68	4.2
TMCLKL	HY/2012/08	2014-06-02	Mid-Flood	Fine	Small Wave	CS6	Bottom	14	3	1	07:50	28.2	7.74	12.4	5.94	2.8	3.2
TMCLKL	HY/2012/08	2014-06-02	Mid-Flood	Fine	Small Wave	CS6	Bottom	14	3	2	07:50	28.1	7.73	12.4	5.9	2.81	4.1
TMCLKL	HY/2012/08	2014-06-02	Mid-Flood	Fine	Small Wave	IS12	Surface	1	1	1	09:26	28.2	7.7	12	6.32	2.79	4.2
TMCLKL	HY/2012/08	2014-06-02	Mid-Flood	Fine	Small Wave	IS12	Surface	1	1	2	09:26	28.2	7.72	12	6.34	2.71	3.2
TMCLKL	HY/2012/08	2014-06-02	Mid-Flood	Fine	Small Wave	IS12	Middle	7	2	1	09:26	28.3	7.71	12.1	6.31	2.54	2.9
TMCLKL	HY/2012/08	2014-06-02	Mid-Flood	Fine	Small Wave	IS12	Middle	7	2	2	09:26	28.2	7.72	12.1	6.32	2.5	2.1
TMCLKL	HY/2012/08	2014-06-02	Mid-Flood	Fine	Small Wave	IS12	Bottom	13	3	1	09:26	28.2	7.75	12.5	6.02	2.84	3.7
TMCLKL	HY/2012/08	2014-06-02	Mid-Flood	Fine	Small Wave	IS12	Bottom	13	3	2	09:26	28.2	7.76	12.4	6	2.88	2.1
TMCLKL	HY/2012/08	2014-06-02	Mid-Flood	Fine	Small Wave	IS13	Surface	1	1	1	09:10	28.3	7.68	11.8	6.34	2.22	2.3
TMCLKL	HY/2012/08	2014-06-02	Mid-Flood	Fine	Small Wave	IS13	Surface	1	1	2	09:10	28.2	7.66	11.8	6.37	2.29	2.3
TMCLKL	HY/2012/08	2014-06-02	Mid-Flood	Fine	Small Wave	IS13	Middle	6	2	1	09:10	28.2	7.72	12.1	6.07	2.9	3.9
TMCLKL	HY/2012/08	2014-06-02	Mid-Flood	Fine	Small Wave	IS13	Middle	6	2	2	09:10	28.1	7.71	12.2	6.02	2.94	2.7
TMCLKL	HY/2012/08	2014-06-02	Mid-Flood	Fine	Small Wave	IS13	Bottom	11	3	1	09:10	28	7.73	12.4	6.18	3.18	3.4
TMCLKL	HY/2012/08	2014-06-02	Mid-Flood	Fine	Small Wave	IS13	Bottom	11	3	2	09:10	28	7.74	12.5	6.16	3.13	2.8
TMCLKL	HY/2012/08	2014-06-02	Mid-Flood	Fine	Small Wave	IS14	Surface	1	1	1	09:42	28.3	7.76	11.9	6.51	2.49	3.4
TMCLKL	HY/2012/08	2014-06-02	Mid-Flood	Fine	Small Wave	IS14	Surface	1	1	2	09:42	28.4	7.75	11.9	6.53	2.46	3.3
TMCLKL	HY/2012/08	2014-06-02	Mid-Flood	Fine	Small Wave	IS14	Middle	7.4	2	1	09:42	28.2	7.8	12.2	5.95	2.68	2.9
TMCLKL	HY/2012/08	2014-06-02	Mid-Flood	Fine	Small Wave	IS14	Middle	7.4	2	2	09:42	28.3	7.81	12.3	5.97	2.56	2.8
TMCLKL	HY/2012/08	2014-06-02	Mid-Flood	Fine	Small Wave	IS14	Bottom	13.8	3	1	09:42	28.2	7.84	12.4	5.69	2.9	3.5
TMCLKL	HY/2012/08	2014-06-02	Mid-Flood	Fine	Small Wave	IS14	Bottom	13.8	3	2	09:42	28.1	7.82	12.4	5.62	2.92	4
TMCLKL	HY/2012/08	2014-06-02	Mid-Flood	Fine	Small Wave	IS15	Surface	1	1	1	08:54	28.3	7.7	11.9	6.2	2.82	2.7
TMCLKL	HY/2012/08	2014-06-02	Mid-Flood	Fine	Small Wave	IS15	Surface	1	1	2	08:54	28.3	7.72	11.9	6.24	2.86	3.7
TMCLKL	HY/2012/08	2014-06-02	Mid-Flood	Fine	Small Wave	IS15	Middle	5.7	2	1	08:54	28.2	7.68	12.1	6.16	3.18	4.1
TMCLKL	HY/2012/08	2014-06-02	Mid-Flood	Fine	Small Wave	IS15	Middle	5.7	2	2	08:54	28.2	7.7	12.1	6.19	3.19	4.1
TMCLKL	HY/2012/08	2014-06-02	Mid-Flood	Fine	Small Wave	IS15	Bottom	10.4	3	1	08:54	28	7.72	12.5	6.38	3.22	4.6
TMCLKL	HY/2012/08	2014-06-02	Mid-Flood	Fine	Small Wave	IS15	Bottom	10.4	3	2	08:54	28	7.75	12.5	6.3	3.23	4.1
TMCLKL	HY/2012/08	2014-06-02	Mid-Flood	Fine	Small Wave	SR8	Surface	1	1	1	08:22	28.3	7.68	11.8	6.48	2.42	3.8
TMCLKL	HY/2012/08	2014-06-02	Mid-Flood	Fine	Small Wave	SR8	Surface	1	1	2	08:22	28.2	7.67	11.9	6.4	2.46	3.7
TMCLKL	HY/2012/08	2014-06-02	Mid-Flood	Fine	Small Wave	SR8	Middle		2	1	08:22						
TMCLKL	HY/2012/08	2014-06-02	Mid-Flood	Fine	Small Wave	SR8	Middle		2	2	08:22						
TMCLKL	HY/2012/08	2014-06-02	Mid-Flood	Fine	Small Wave	SR8	Bottom	4.8	3	1	08:22	28.2	7.7	12.3	6.01	2.6	3.1
TMCLKL	HY/2012/08	2014-06-02	Mid-Flood	Fine	Small Wave	SR8	Bottom	4.8	3	2	08:22	28.2	7.71	12.3	6	2.64	4.1
TMCLKL	HY/2012/08	2014-06-02	Mid-Flood	Fine	Small Wave	SR9	Surface	1	1	1	08:38	28.3	7.72	11.8	6.56	2.79	4.6
TMCLKL	HY/2012/08	2014-06-02	Mid-Flood	Fine	Small Wave	SR9	Surface	1	1	2	08:38	28.2	7.73	11.9	6.5	2.76	4.6
TMCLKL	HY/2012/08	2014-06-02	Mid-Flood	Fine	Small Wave	SR9	Middle		2	1	08:38						
TMCLKL	HY/2012/08	2014-06-02	Mid-Flood	Fine	Small Wave	SR9	Middle		2	2	08:38						
TMCLKL	HY/2012/08	2014-06-02	Mid-Flood	Fine	Small Wave	SR9	Bottom	4	3	1	08:38	28	7.77	12.5	6.04	3.08	4.4
TMCLKL	HY/2012/08	2014-06-02	Mid-Flood	Fine	Small Wave	SR9	Bottom	4	3	2	08:38	28	7.78	12.4	6.01	3	3.1
TMCLKL	HY/2012/08	2014-06-02	Mid-Flood	Fine	Small Wave	SR10A	Surface	1	1	1	08:06	28.3	7.65	11.9	6.31	2.65	3.6
TMCLKL	HY/2012/08	2014-06-02	Mid-Flood	Fine	Small Wave	SR10A	Surface	1	1	2	08:06	28.3	7.64	11.9	6.39	2.66	2.3
TMCLKL	HY/2012/08	2014-06-02	Mid-Flood	Fine	Small Wave	SR10A	Middle	7.9	2	1	08:06	28.2	7.69	12.1	6.29	2.73	4.6
TMCLKL	HY/2012/08	2014-06-02	Mid-Flood	Fine	Small Wave	SR10A	Middle	7.9	2	2	08:06	28.3	7.7	12.1	6.22	2.75	3.7
TMCLKL	HY/2012/08	2014-06-02	Mid-Flood	Fine	Small Wave	SR10A	Bottom	14.8	3	1	08:06	28.2	7.76	12.3	6.14	2.97	4.5
TMCLKL	HY/2012/08	2014-06-02	Mid-Flood	Fine	Small Wave	SR10A	Bottom	14.8	3	2	08:06	28.1	7.77	12.4	6.16	2.99	3.8
TMCLKL	HY/2012/08	2014-06-02	Mid-Ebb	Fine	Small Wave	CS4	Surface	1	1	1	14:07	28.3	7.81	11.8	6.39	3.12	3.4
TMCLKL	HY/2012/08	2014-06-02	Mid-Ebb	Fine	Small Wave	CS4	Surface	1	1	2	14:07	28.4	7.79	11.8	6.42	3.13	2.2
TMCLKL	HY/2012/08	2014-06-02	Mid-Ebb	Fine	Small Wave	CS4	Middle	12.2	2	1	14:07	28.3	7.76	12.2	6.27	3.19	2.4
TMCLKL	HY/2012/08	2014-06-02	Mid-Ebb	Fine	Small Wave	CS4	Middle	12.2	2	2	14:07	28.3	7.78	12.1	6.25	3.21	3.5

Project	Works	Date	Tide	Weather	Sea Condition	Stat	Level	Water Depth	Lev_Cod	Replicate	Time	Temp(°C)	pH	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)
TMCLKL	HY/2012/08	2014-06-02	Mid-Ebb	Fine	Small Wave	CS4	Bottom	23.4	3	1	14:07	28.2	7.74	12.6	6.25	3.15	3.2
TMCLKL	HY/2012/08	2014-06-02	Mid-Ebb	Fine	Small Wave	CS4	Bottom	23.4	3	2	14:07	28.1	7.75	12.5	6.24	3.13	2.7
TMCLKL	HY/2012/08	2014-06-02	Mid-Ebb	Fine	Small Wave	CS6	Surface	1	1	1	17:19	28.4	7.75	11.9	6.37	2.83	3
TMCLKL	HY/2012/08	2014-06-02	Mid-Ebb	Fine	Small Wave	CS6	Surface	1	1	2	17:19	28.3	7.77	11.9	6.38	2.85	2.3
TMCLKL	HY/2012/08	2014-06-02	Mid-Ebb	Fine	Small Wave	CS6	Middle	7.1	2	1	17:19	28.3	7.79	12.2	6.27	3.02	2.2
TMCLKL	HY/2012/08	2014-06-02	Mid-Ebb	Fine	Small Wave	CS6	Middle	7.1	2	2	17:19	28.3	7.8	12.1	6.25	3.05	4.2
TMCLKL	HY/2012/08	2014-06-02	Mid-Ebb	Fine	Small Wave	CS6	Bottom	13.2	3	1	17:19	28.3	7.78	12.6	6.13	3.11	2.7
TMCLKL	HY/2012/08	2014-06-02	Mid-Ebb	Fine	Small Wave	CS6	Bottom	13.2	3	2	17:19	28.2	7.79	12.6	6.11	3.13	3.7
TMCLKL	HY/2012/08	2014-06-02	Mid-Ebb	Fine	Small Wave	IS12	Surface	1	1	1	14:55	28.2	7.79	11.9	6.31	3.02	4
TMCLKL	HY/2012/08	2014-06-02	Mid-Ebb	Fine	Small Wave	IS12	Surface	1	1	2	14:55	28.3	7.77	11.8	6.33	3	3
TMCLKL	HY/2012/08	2014-06-02	Mid-Ebb	Fine	Small Wave	IS12	Middle	6.6	2	1	14:55	28.3	7.69	12.2	6.34	2.97	4.4
TMCLKL	HY/2012/08	2014-06-02	Mid-Ebb	Fine	Small Wave	IS12	Middle	6.6	2	2	14:55	28.2	7.72	12.1	6.33	2.95	5.2
TMCLKL	HY/2012/08	2014-06-02	Mid-Ebb	Fine	Small Wave	IS12	Bottom	12.2	3	1	14:55	28.3	7.73	12.6	6.35	2.81	4.8
TMCLKL	HY/2012/08	2014-06-02	Mid-Ebb	Fine	Small Wave	IS12	Bottom	12.2	3	2	14:55	28.2	7.75	12.6	6.37	2.79	4.8
TMCLKL	HY/2012/08	2014-06-02	Mid-Ebb	Fine	Small Wave	IS13	Surface	1	1	1	15:19	28.4	7.75	11.8	6.55	3.07	3.4
TMCLKL	HY/2012/08	2014-06-02	Mid-Ebb	Fine	Small Wave	IS13	Surface	1	1	2	15:19	28.4	7.76	11.9	6.56	3.05	4.1
TMCLKL	HY/2012/08	2014-06-02	Mid-Ebb	Fine	Small Wave	IS13	Middle	6.2	2	1	15:19	28.3	7.78	12.2	6.23	2.94	3.9
TMCLKL	HY/2012/08	2014-06-02	Mid-Ebb	Fine	Small Wave	IS13	Middle	6.2	2	2	15:19	28.3	7.77	12.1	6.21	2.96	4.1
TMCLKL	HY/2012/08	2014-06-02	Mid-Ebb	Fine	Small Wave	IS13	Bottom	11.4	3	1	15:19	28.2	7.74	12.6	6.17	3.11	3.8
TMCLKL	HY/2012/08	2014-06-02	Mid-Ebb	Fine	Small Wave	IS13	Bottom	11.4	3	2	15:19	28.3	7.75	12.7	6.18	3.09	3.5
TMCLKL	HY/2012/08	2014-06-02	Mid-Ebb	Fine	Small Wave	IS14	Surface	1	1	1	14:31	28.3	7.8	11.8	6.37	2.89	2.6
TMCLKL	HY/2012/08	2014-06-02	Mid-Ebb	Fine	Small Wave	IS14	Surface	1	1	2	14:31	28.3	7.79	11.9	6.4	2.87	3.6
TMCLKL	HY/2012/08	2014-06-02	Mid-Ebb	Fine	Small Wave	IS14	Middle	7.1	2	1	14:31	28.3	7.81	12.2	6.17	2.95	2.9
TMCLKL	HY/2012/08	2014-06-02	Mid-Ebb	Fine	Small Wave	IS14	Middle	7.1	2	2	14:31	28.2	7.8	12.2	6.19	2.97	3.6
TMCLKL	HY/2012/08	2014-06-02	Mid-Ebb	Fine	Small Wave	IS14	Bottom	13.2	3	1	14:31	28.2	7.76	12.6	5.99	3.05	3
TMCLKL	HY/2012/08	2014-06-02	Mid-Ebb	Fine	Small Wave	IS14	Bottom	13.2	3	2	14:31	28.2	7.74	12.7	6.01	3.03	2.3
TMCLKL	HY/2012/08	2014-06-02	Mid-Ebb	Fine	Small Wave	IS15	Surface	1	1	1	15:43	28.3	7.71	11.9	6.52	2.87	3.6
TMCLKL	HY/2012/08	2014-06-02	Mid-Ebb	Fine	Small Wave	IS15	Surface	1	1	2	15:43	28.4	7.73	11.7	6.53	2.89	3.2
TMCLKL	HY/2012/08	2014-06-02	Mid-Ebb	Fine	Small Wave	IS15	Middle	6	2	1	15:43	28.2	7.75	12.1	6.19	3.15	3.1
TMCLKL	HY/2012/08	2014-06-02	Mid-Ebb	Fine	Small Wave	IS15	Middle	6	2	2	15:43	28.3	7.76	12.2	6.2	3.17	2.8
TMCLKL	HY/2012/08	2014-06-02	Mid-Ebb	Fine	Small Wave	IS15	Bottom	11	3	1	15:43	28.1	7.73	12.6	6.11	3.21	3.4
TMCLKL	HY/2012/08	2014-06-02	Mid-Ebb	Fine	Small Wave	IS15	Bottom	11	3	2	15:43	28.2	7.74	12.5	6.13	3.23	2.7
TMCLKL	HY/2012/08	2014-06-02	Mid-Ebb	Fine	Small Wave	SR8	Surface	1	1	1	16:31	28.4	7.75	11.8	6.27	2.83	2.6
TMCLKL	HY/2012/08	2014-06-02	Mid-Ebb	Fine	Small Wave	SR8	Surface	1	1	2	16:31	28.3	7.71	11.7	6.29	2.85	2.5
TMCLKL	HY/2012/08	2014-06-02	Mid-Ebb	Fine	Small Wave	SR8	Middle		2	1	16:31						
TMCLKL	HY/2012/08	2014-06-02	Mid-Ebb	Fine	Small Wave	SR8	Middle		2	2	16:31						
TMCLKL	HY/2012/08	2014-06-02	Mid-Ebb	Fine	Small Wave	SR8	Bottom	4.5	3	1	16:31	28.2	7.8	12.6	6.13	2.91	2.5
TMCLKL	HY/2012/08	2014-06-02	Mid-Ebb	Fine	Small Wave	SR8	Bottom	4.5	3	2	16:31	28.3	7.81	12.7	6.14	2.9	3.8
TMCLKL	HY/2012/08	2014-06-02	Mid-Ebb	Fine	Small Wave	SR9	Surface	1	1	1	16:07	28.3	7.79	11.9	6.47	2.81	3.2
TMCLKL	HY/2012/08	2014-06-02	Mid-Ebb	Fine	Small Wave	SR9	Surface	1	1	2	16:07	28.3	7.8	11.9	6.49	2.79	3
TMCLKL	HY/2012/08	2014-06-02	Mid-Ebb	Fine	Small Wave	SR9	Middle		2	1	16:07						
TMCLKL	HY/2012/08	2014-06-02	Mid-Ebb	Fine	Small Wave	SR9	Middle		2	2	16:07						
TMCLKL	HY/2012/08	2014-06-02	Mid-Ebb	Fine	Small Wave	SR9	Bottom	4.3	3	1	16:07	28.2	7.82	12.5	6.21	3.02	3.3
TMCLKL	HY/2012/08	2014-06-02	Mid-Ebb	Fine	Small Wave	SR9	Bottom	4.3	3	2	16:07	28.2	7.81	12.6	6.22	3.06	2.6
TMCLKL	HY/2012/08	2014-06-02	Mid-Ebb	Fine	Small Wave	SR10A	Surface	1	1	1	16:55	28.4	7.79	11.8	6.43	2.96	2.1
TMCLKL	HY/2012/08	2014-06-02	Mid-Ebb	Fine	Small Wave	SR10A	Surface	1	1	2	16:55	28.4	7.81	11.9	6.45	2.94	3.1
TMCLKL	HY/2012/08	2014-06-02	Mid-Ebb	Fine	Small Wave	SR10A	Middle	7.6	2	1	16:55	28.3	7.75	12.3	6.21	2.79	3.5
TMCLKL	HY/2012/08	2014-06-02	Mid-Ebb	Fine	Small Wave	SR10A	Middle	7.6	2	2	16:55	28.4	7.76	12.1	6.23	2.8	4.7
TMCLKL	HY/2012/08	2014-06-02	Mid-Ebb	Fine	Small Wave	SR10A	Bottom	14.2	3	1	16:55	28.3	7.78	12.7	6.15	2.91	4.5
TMCLKL	HY/2012/08	2014-06-02	Mid-Ebb	Fine	Small Wave	SR10A	Bottom	14.2	3	2	16:55	28.2	7.76	12.6	6.16	2.93	3.7
TMCLKL	HY/2012/08	2014-06-04	Mid-Flood	Fine	Small Wave	CS4	Surface	1	1	1	11:26	28.4	7.78	14.2	5.97	3.52	0.5
TMCLKL	HY/2012/08	2014-06-04	Mid-Flood	Fine	Small Wave	CS4	Surface	1	1	2	11:26	28.4	7.79	14.3	5.99	3.5	0.5
TMCLKL	HY/2012/08	2014-06-04	Mid-Flood	Fine	Small Wave	CS4	Middle	12.3	2	1	11:26	28.3	7.79	14.5	5.73	3.79	0.5
TMCLKL	HY/2012/08	2014-06-04	Mid-Flood	Fine	Small Wave	CS4	Middle	12.3	2	2	11:26	28.3	7.8	14.4	5.75	3.78	0.7
TMCLKL	HY/2012/08	2014-06-04	Mid-Flood	Fine	Small Wave	CS4	Bottom	23.6	3	1	11:26	28.2	7.81	14.6	5.61	3.62	1.9
TMCLKL	HY/2012/08	2014-06-04	Mid-Flood	Fine	Small Wave	CS4	Bottom	23.6	3	2	11:26	28.3	7.8	14.6	5.63	3.66	1.7
TMCLKL	HY/2012/08	2014-06-04	Mid-Flood	Fine	Small Wave	CS6	Surface	1	1	1	08:30	28.3	7.8	14.3	5.95	3.19	0.5
TMCLKL	HY/2012/08	2014-06-04	Mid-Flood	Fine	Small Wave	CS6	Surface	1	1	2	08:30	28.3	7.81	14.2	5.92	3.21	0.5

Project	Works	Date	Tide	Weather	Sea Condition	Stat	Level	Water Depth	Lev_Cod	Replicate	Time	Temp(°C)	pH	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)
TMCLKL	HY/2012/08	2014-06-04	Mid-Flood	Fine	Small Wave	CS6	Middle	7.2	2	1	08:30	28.3	7.79	14.4	5.51	3.47	0.9
TMCLKL	HY/2012/08	2014-06-04	Mid-Flood	Fine	Small Wave	CS6	Middle	7.2	2	2	08:30	28.2	7.78	14.5	5.53	3.45	0.8
TMCLKL	HY/2012/08	2014-06-04	Mid-Flood	Fine	Small Wave	CS6	Bottom	13.4	3	1	08:30	28.2	7.79	14.7	5.36	3.52	1.4
TMCLKL	HY/2012/08	2014-06-04	Mid-Flood	Fine	Small Wave	CS6	Bottom	13.4	3	2	08:30	28.2	7.8	14.6	5.38	3.54	1.2
TMCLKL	HY/2012/08	2014-06-04	Mid-Flood	Fine	Small Wave	IS12	Surface	1	1	1	10:42	28.4	7.81	14.2	5.87	3.99	1.4
TMCLKL	HY/2012/08	2014-06-04	Mid-Flood	Fine	Small Wave	IS12	Surface	1	1	2	10:42	28.4	7.8	14.2	5.88	4.01	1.5
TMCLKL	HY/2012/08	2014-06-04	Mid-Flood	Fine	Small Wave	IS12	Middle	6.7	2	1	10:42	28.3	7.78	14.4	5.43	4.23	1.5
TMCLKL	HY/2012/08	2014-06-04	Mid-Flood	Fine	Small Wave	IS12	Middle	6.7	2	2	10:42	28.4	7.79	14.5	5.47	4.21	1.1
TMCLKL	HY/2012/08	2014-06-04	Mid-Flood	Fine	Small Wave	IS12	Bottom	12.4	3	1	10:42	28.3	7.76	14.7	5.15	4.13	1.2
TMCLKL	HY/2012/08	2014-06-04	Mid-Flood	Fine	Small Wave	IS12	Bottom	12.4	3	2	10:42	28.2	7.78	14.6	5.19	4.17	1.7
TMCLKL	HY/2012/08	2014-06-04	Mid-Flood	Fine	Small Wave	IS13	Surface	1	1	1	10:20	28.3	7.76	14.2	6.02	3.36	1.2
TMCLKL	HY/2012/08	2014-06-04	Mid-Flood	Fine	Small Wave	IS13	Surface	1	1	2	10:20	28.4	7.77	14.2	6	3.38	1.3
TMCLKL	HY/2012/08	2014-06-04	Mid-Flood	Fine	Small Wave	IS13	Middle	6.4	2	1	10:20	28.3	7.79	14.5	5.84	3.02	1.5
TMCLKL	HY/2012/08	2014-06-04	Mid-Flood	Fine	Small Wave	IS13	Middle	6.4	2	2	10:20	28.3	7.78	14.4	5.81	3.06	1.7
TMCLKL	HY/2012/08	2014-06-04	Mid-Flood	Fine	Small Wave	IS13	Bottom	11.8	3	1	10:20	28.3	7.76	14.6	5.43	3.43	2
TMCLKL	HY/2012/08	2014-06-04	Mid-Flood	Fine	Small Wave	IS13	Bottom	11.8	3	2	10:20	28.2	7.78	14.6	5.41	3.41	1.8
TMCLKL	HY/2012/08	2014-06-04	Mid-Flood	Fine	Small Wave	IS14	Surface	1	1	1	11:04	28.4	7.76	14.3	5.92	2.98	1.1
TMCLKL	HY/2012/08	2014-06-04	Mid-Flood	Fine	Small Wave	IS14	Surface	1	1	2	11:04	28.4	7.77	14.2	5.96	2.99	1.4
TMCLKL	HY/2012/08	2014-06-04	Mid-Flood	Fine	Small Wave	IS14	Middle	7.2	2	1	11:04	28.3	7.79	14.4	5.67	3.07	1.5
TMCLKL	HY/2012/08	2014-06-04	Mid-Flood	Fine	Small Wave	IS14	Middle	7.2	2	2	11:04	28.3	7.78	14.4	5.63	3.04	1.6
TMCLKL	HY/2012/08	2014-06-04	Mid-Flood	Fine	Small Wave	IS14	Bottom	13.4	3	1	11:04	28.2	7.79	14.7	5.17	3.27	2
TMCLKL	HY/2012/08	2014-06-04	Mid-Flood	Fine	Small Wave	IS14	Bottom	13.4	3	2	11:04	28.3	7.8	14.6	5.14	3.25	2.1
TMCLKL	HY/2012/08	2014-06-04	Mid-Flood	Fine	Small Wave	IS15	Surface	1	1	1	09:58	28.4	7.76	14.3	6.24	3.02	0.5
TMCLKL	HY/2012/08	2014-06-04	Mid-Flood	Fine	Small Wave	IS15	Surface	1	1	2	09:58	28.3	7.78	14.2	6.25	3.04	0.5
TMCLKL	HY/2012/08	2014-06-04	Mid-Flood	Fine	Small Wave	IS15	Middle	6.1	2	1	09:58	28.3	7.8	14.4	5.76	3.69	0.5
TMCLKL	HY/2012/08	2014-06-04	Mid-Flood	Fine	Small Wave	IS15	Middle	6.1	2	2	09:58	28.3	7.79	14.4	5.79	3.71	0.5
TMCLKL	HY/2012/08	2014-06-04	Mid-Flood	Fine	Small Wave	IS15	Bottom	11.2	3	1	09:58	28.2	7.78	14.7	5.51	3.82	0.5
TMCLKL	HY/2012/08	2014-06-04	Mid-Flood	Fine	Small Wave	IS15	Bottom	11.2	3	2	09:58	28.3	7.79	14.6	5.53	3.8	0.5
TMCLKL	HY/2012/08	2014-06-04	Mid-Flood	Fine	Small Wave	SR8	Surface	1	1	1	09:14	28.3	7.78	14.2	5.89	3.02	0.5
TMCLKL	HY/2012/08	2014-06-04	Mid-Flood	Fine	Small Wave	SR8	Surface	1	1	2	09:14	28.4	7.79	14.2	5.91	3.05	0.5
TMCLKL	HY/2012/08	2014-06-04	Mid-Flood	Fine	Small Wave	SR8	Middle		2	1	09:14						
TMCLKL	HY/2012/08	2014-06-04	Mid-Flood	Fine	Small Wave	SR8	Middle		2	2	09:14						
TMCLKL	HY/2012/08	2014-06-04	Mid-Flood	Fine	Small Wave	SR8	Bottom	4.8	3	1	09:14	28.3	7.81	14.6	5.43	3.13	0.7
TMCLKL	HY/2012/08	2014-06-04	Mid-Flood	Fine	Small Wave	SR8	Bottom	4.8	3	2	09:14	28.3	7.8	14.5	5.46	3.15	0.9
TMCLKL	HY/2012/08	2014-06-04	Mid-Flood	Fine	Small Wave	SR9	Surface	1	1	1	09:36	28.4	7.8	14.2	6.1	2.97	0.8
TMCLKL	HY/2012/08	2014-06-04	Mid-Flood	Fine	Small Wave	SR9	Surface	1	1	2	09:36	28.4	7.79	14.3	6.08	2.99	0.7
TMCLKL	HY/2012/08	2014-06-04	Mid-Flood	Fine	Small Wave	SR9	Middle		2	1	09:36						
TMCLKL	HY/2012/08	2014-06-04	Mid-Flood	Fine	Small Wave	SR9	Middle		2	2	09:36						
TMCLKL	HY/2012/08	2014-06-04	Mid-Flood	Fine	Small Wave	SR9	Bottom	3.8	3	1	09:36	28.4	7.77	14.6	5.73	3.32	1.2
TMCLKL	HY/2012/08	2014-06-04	Mid-Flood	Fine	Small Wave	SR9	Bottom	3.8	3	2	09:36	28.3	7.76	14.6	5.76	3.34	1.6
TMCLKL	HY/2012/08	2014-06-04	Mid-Flood	Fine	Small Wave	SR10A	Surface	1	1	1	08:52	28.4	7.79	14.2	6.02	3.25	0.7
TMCLKL	HY/2012/08	2014-06-04	Mid-Flood	Fine	Small Wave	SR10A	Surface	1	1	2	08:52	28.3	7.81	14.3	6.04	3.27	0.7
TMCLKL	HY/2012/08	2014-06-04	Mid-Flood	Fine	Small Wave	SR10A	Middle	7.7	2	1	08:52	28.3	7.8	14.5	5.87	3.17	0.7
TMCLKL	HY/2012/08	2014-06-04	Mid-Flood	Fine	Small Wave	SR10A	Middle	7.7	2	2	08:52	28.3	7.79	14.4	5.88	3.16	0.8
TMCLKL	HY/2012/08	2014-06-04	Mid-Flood	Fine	Small Wave	SR10A	Bottom	14.4	3	1	08:52	28.2	7.78	14.6	5.32	3.21	1.5
TMCLKL	HY/2012/08	2014-06-04	Mid-Flood	Fine	Small Wave	SR10A	Bottom	14.4	3	2	08:52	28.3	7.77	14.6	5.33	3.23	1.4
TMCLKL	HY/2012/08	2014-06-04	Mid-Ebb	Fine	Small Wave	CS4	Surface	1	1	1	15:19	28.4	7.79	14.3	5.9	3.6	0.5
TMCLKL	HY/2012/08	2014-06-04	Mid-Ebb	Fine	Small Wave	CS4	Surface	1	1	2	15:19	28.4	7.8	14.2	5.91	3.58	0.5
TMCLKL	HY/2012/08	2014-06-04	Mid-Ebb	Fine	Small Wave	CS4	Middle	12.2	2	1	15:19	28.3	7.8	14.4	5.65	3.86	0.5
TMCLKL	HY/2012/08	2014-06-04	Mid-Ebb	Fine	Small Wave	CS4	Middle	12.2	2	2	15:19	28.4	7.81	14.5	5.67	3.84	0.5
TMCLKL	HY/2012/08	2014-06-04	Mid-Ebb	Fine	Small Wave	CS4	Bottom	23.4	3	1	15:19	28.3	7.8	14.7	5.53	3.7	0.5
TMCLKL	HY/2012/08	2014-06-04	Mid-Ebb	Fine	Small Wave	CS4	Bottom	23.4	3	2	15:19	28.3	7.81	14.6	5.55	3.72	0.5
TMCLKL	HY/2012/08	2014-06-04	Mid-Ebb	Fine	Small Wave	CS6	Surface	1	1	1	18:31	28.4	7.81	14.2	5.87	3.28	1
TMCLKL	HY/2012/08	2014-06-04	Mid-Ebb	Fine	Small Wave	CS6	Surface	1	1	2	18:31	28.4	7.82	14.2	5.85	3.29	1
TMCLKL	HY/2012/08	2014-06-04	Mid-Ebb	Fine	Small Wave	CS6	Middle	7.2	2	1	18:31	28.3	7.8	14.4	5.44	3.55	0.9
TMCLKL	HY/2012/08	2014-06-04	Mid-Ebb	Fine	Small Wave	CS6	Middle	7.2	2	2	18:31	28.3	7.79	14.5	5.45	3.53	0.7
TMCLKL	HY/2012/08	2014-06-04	Mid-Ebb	Fine	Small Wave	CS6	Bottom	13.4	3	1	18:31	28.3	7.8	14.6	5.29	3.6	0.7
TMCLKL	HY/2012/08	2014-06-04	Mid-Ebb	Fine	Small Wave	CS6	Bottom	13.4	3	2	18:31	28.2	7.81	14.6	5.27	3.62	0.7

Project	Works	Date	Tide	Weather	Sea Condition	Stat	Level	Water Depth	Lev_Cod	Replicate	Time	Temp(°C)	pH	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)
TMCLKL	HY/2012/08	2014-06-04	Mid-Ebb	Fine	Small Wave	IS12	Surface	1	1	1	16:07	28.3	7.8	14.3	5.8	4.07	0.5
TMCLKL	HY/2012/08	2014-06-04	Mid-Ebb	Fine	Small Wave	IS12	Surface	1	1	2	16:07	28.4	7.79	14.2	5.81	4.09	0.5
TMCLKL	HY/2012/08	2014-06-04	Mid-Ebb	Fine	Small Wave	IS12	Middle	6.6	2	1	16:07	28.3	7.76	14.4	5.35	4.3	0.9
TMCLKL	HY/2012/08	2014-06-04	Mid-Ebb	Fine	Small Wave	IS12	Middle	6.6	2	2	16:07	28.3	7.78	14.4	5.36	4.29	1.1
TMCLKL	HY/2012/08	2014-06-04	Mid-Ebb	Fine	Small Wave	IS12	Bottom	12.2	3	1	16:07	28.2	7.77	14.6	5.07	4.21	1.3
TMCLKL	HY/2012/08	2014-06-04	Mid-Ebb	Fine	Small Wave	IS12	Bottom	12.2	3	2	16:07	28.3	7.78	14.7	5.1	4.24	1
TMCLKL	HY/2012/08	2014-06-04	Mid-Ebb	Fine	Small Wave	IS13	Surface	1	1	1	16:31	28.4	7.77	14.3	5.96	3.44	0.6
TMCLKL	HY/2012/08	2014-06-04	Mid-Ebb	Fine	Small Wave	IS13	Surface	1	1	2	16:31	28.4	7.78	14.2	5.94	3.46	0.5
TMCLKL	HY/2012/08	2014-06-04	Mid-Ebb	Fine	Small Wave	IS13	Middle	6.3	2	1	16:31	28.3	7.8	14.4	5.76	3.1	1.5
TMCLKL	HY/2012/08	2014-06-04	Mid-Ebb	Fine	Small Wave	IS13	Middle	6.3	2	2	16:31	28.3	7.79	14.4	5.73	3.14	1.5
TMCLKL	HY/2012/08	2014-06-04	Mid-Ebb	Fine	Small Wave	IS13	Bottom	11.6	3	1	16:31	28.2	7.77	14.7	5.35	3.51	1.4
TMCLKL	HY/2012/08	2014-06-04	Mid-Ebb	Fine	Small Wave	IS13	Bottom	11.6	3	2	16:31	28.3	7.79	14.6	5.33	3.49	1.2
TMCLKL	HY/2012/08	2014-06-04	Mid-Ebb	Fine	Small Wave	IS14	Surface	1	1	1	15:43	28.4	7.78	14.2	5.84	3.06	0.9
TMCLKL	HY/2012/08	2014-06-04	Mid-Ebb	Fine	Small Wave	IS14	Surface	1	1	2	15:43	28.4	7.79	14.2	5.88	3.07	0.9
TMCLKL	HY/2012/08	2014-06-04	Mid-Ebb	Fine	Small Wave	IS14	Middle	7.1	2	1	15:43	28.4	7.8	14.3	5.6	3.15	1.2
TMCLKL	HY/2012/08	2014-06-04	Mid-Ebb	Fine	Small Wave	IS14	Middle	7.1	2	2	15:43	28.3	7.79	14.4	5.57	3.13	1.3
TMCLKL	HY/2012/08	2014-06-04	Mid-Ebb	Fine	Small Wave	IS14	Bottom	13.1	3	1	15:43	28.3	7.8	14.6	5.1	3.35	1.4
TMCLKL	HY/2012/08	2014-06-04	Mid-Ebb	Fine	Small Wave	IS14	Bottom	13.1	3	2	15:43	28.3	7.81	14.6	5.07	3.33	1.3
TMCLKL	HY/2012/08	2014-06-04	Mid-Ebb	Fine	Small Wave	IS15	Surface	1	1	1	16:55	28.4	7.77	14.2	6.16	3.1	0.6
TMCLKL	HY/2012/08	2014-06-04	Mid-Ebb	Fine	Small Wave	IS15	Surface	1	1	2	16:55	28.4	7.79	14.2	6.17	3.12	0.8
TMCLKL	HY/2012/08	2014-06-04	Mid-Ebb	Fine	Small Wave	IS15	Middle	6	2	1	16:55	28.3	7.79	14.4	5.68	3.77	0.6
TMCLKL	HY/2012/08	2014-06-04	Mid-Ebb	Fine	Small Wave	IS15	Middle	6	2	2	16:55	28.3	7.78	14.5	5.71	3.79	0.7
TMCLKL	HY/2012/08	2014-06-04	Mid-Ebb	Fine	Small Wave	IS15	Bottom	11	3	1	16:55	28.3	7.79	14.6	5.43	3.9	1.1
TMCLKL	HY/2012/08	2014-06-04	Mid-Ebb	Fine	Small Wave	IS15	Bottom	11	3	2	16:55	28.2	7.8	14.7	5.45	3.88	1.4
TMCLKL	HY/2012/08	2014-06-04	Mid-Ebb	Fine	Small Wave	SR8	Surface	1	1	1	17:43	28.4	7.8	14.2	5.8	3.1	0.9
TMCLKL	HY/2012/08	2014-06-04	Mid-Ebb	Fine	Small Wave	SR8	Surface	1	1	2	17:43	28.4	7.79	14.3	5.83	3.12	1.1
TMCLKL	HY/2012/08	2014-06-04	Mid-Ebb	Fine	Small Wave	SR8	Middle		2	1	17:43						
TMCLKL	HY/2012/08	2014-06-04	Mid-Ebb	Fine	Small Wave	SR8	Middle		2	2	17:43						
TMCLKL	HY/2012/08	2014-06-04	Mid-Ebb	Fine	Small Wave	SR8	Bottom	4.6	3	1	17:43	28.3	7.79	14.6	5.35	3.21	2
TMCLKL	HY/2012/08	2014-06-04	Mid-Ebb	Fine	Small Wave	SR8	Bottom	4.6	3	2	17:43	28.3	7.8	14.6	5.34	3.23	1.9
TMCLKL	HY/2012/08	2014-06-04	Mid-Ebb	Fine	Small Wave	SR9	Surface	1	1	1	17:19	28.4	7.79	14.3	6.02	3.05	0.5
TMCLKL	HY/2012/08	2014-06-04	Mid-Ebb	Fine	Small Wave	SR9	Surface	1	1	2	17:19	28.3	7.78	14.2	6	3.07	0.5
TMCLKL	HY/2012/08	2014-06-04	Mid-Ebb	Fine	Small Wave	SR9	Middle		2	1	17:19						
TMCLKL	HY/2012/08	2014-06-04	Mid-Ebb	Fine	Small Wave	SR9	Middle		2	2	17:19						
TMCLKL	HY/2012/08	2014-06-04	Mid-Ebb	Fine	Small Wave	SR9	Bottom	3.6	3	1	17:19	28.3	7.78	14.7	5.65	3.4	1
TMCLKL	HY/2012/08	2014-06-04	Mid-Ebb	Fine	Small Wave	SR9	Bottom	3.6	3	2	17:19	28.2	7.77	14.6	5.67	3.42	1.1
TMCLKL	HY/2012/08	2014-06-04	Mid-Ebb	Fine	Small Wave	SR10A	Surface	1	1	1	18:07	28.4	7.8	14.3	5.95	3.33	0.5
TMCLKL	HY/2012/08	2014-06-04	Mid-Ebb	Fine	Small Wave	SR10A	Surface	1	1	2	18:07	28.3	7.79	14.2	5.97	3.35	0.5
TMCLKL	HY/2012/08	2014-06-04	Mid-Ebb	Fine	Small Wave	SR10A	Middle	7.6	2	1	18:07	28.3	7.81	14.4	5.8	3.25	0.9
TMCLKL	HY/2012/08	2014-06-04	Mid-Ebb	Fine	Small Wave	SR10A	Middle	7.6	2	2	18:07	28.4	7.8	14.5	5.82	3.23	0.9
TMCLKL	HY/2012/08	2014-06-04	Mid-Ebb	Fine	Small Wave	SR10A	Bottom	14.2	3	1	18:07	28.3	7.79	14.6	5.25	3.29	1.9
TMCLKL	HY/2012/08	2014-06-04	Mid-Ebb	Fine	Small Wave	SR10A	Bottom	14.2	3	2	18:07	28.3	7.78	14.7	5.26	3.31	1.7
TMCLKL	HY/2012/08	2014-06-06	Mid-Flood	Cloudy	Small Wave	CS4	Surface	1	1	1	13:35	28.4	7.84	18.2	6.01	2.34	1.6
TMCLKL	HY/2012/08	2014-06-06	Mid-Flood	Cloudy	Small Wave	CS4	Surface	1	1	2	13:35	28.4	7.83	18.2	6.04	2.3	0.5
TMCLKL	HY/2012/08	2014-06-06	Mid-Flood	Cloudy	Small Wave	CS4	Middle	12.2	2	1	13:35	28.3	7.85	18.8	5.95	2.44	0.6
TMCLKL	HY/2012/08	2014-06-06	Mid-Flood	Cloudy	Small Wave	CS4	Middle	12.2	2	2	13:35	28.2	7.84	18.7	5.98	2.4	2.3
TMCLKL	HY/2012/08	2014-06-06	Mid-Flood	Cloudy	Small Wave	CS4	Bottom	23.4	3	1	13:35	28.2	7.85	18.9	5.74	2.51	2.3
TMCLKL	HY/2012/08	2014-06-06	Mid-Flood	Cloudy	Small Wave	CS4	Bottom	23.4	3	2	13:35	28.1	7.85	18.8	5.7	2.55	1
TMCLKL	HY/2012/08	2014-06-06	Mid-Flood	Cloudy	Small Wave	CS6	Surface	1	1	1	10:34	28.2	7.8	18	6.24	2.57	1.2
TMCLKL	HY/2012/08	2014-06-06	Mid-Flood	Cloudy	Small Wave	CS6	Surface	1	1	2	10:34	28.2	7.81	18	6.22	2.63	0.9
TMCLKL	HY/2012/08	2014-06-06	Mid-Flood	Cloudy	Small Wave	CS6	Middle	7.3	2	1	10:34	28.1	7.81	18.3	6.07	2.34	0.5
TMCLKL	HY/2012/08	2014-06-06	Mid-Flood	Cloudy	Small Wave	CS6	Middle	7.3	2	2	10:34	28.1	7.81	18.2	6.04	2.3	1.2
TMCLKL	HY/2012/08	2014-06-06	Mid-Flood	Cloudy	Small Wave	CS6	Bottom	13.6	3	1	10:34	28	7.82	18.7	5.94	2.49	0.5
TMCLKL	HY/2012/08	2014-06-06	Mid-Flood	Cloudy	Small Wave	CS6	Bottom	13.6	3	2	10:34	28.1	7.82	18.8	5.97	2.45	0.8
TMCLKL	HY/2012/08	2014-06-06	Mid-Flood	Cloudy	Small Wave	IS12	Surface	1	1	1	12:44	28.3	7.84	18.2	6.12	2.52	0.5
TMCLKL	HY/2012/08	2014-06-06	Mid-Flood	Cloudy	Small Wave	IS12	Surface	1	1	2	12:44	28.3	7.84	18.2	6.08	2.57	1.1
TMCLKL	HY/2012/08	2014-06-06	Mid-Flood	Cloudy	Small Wave	IS12	Middle	6.9	2	1	12:44	28.2	7.84	18.8	5.98	2.72	0.6
TMCLKL	HY/2012/08	2014-06-06	Mid-Flood	Cloudy	Small Wave	IS12	Middle	6.9	2	2	12:44	28.2	7.84	18.7	5.95	2.77	1

Project	Works	Date	Tide	Weather	Sea Condition	Stat	Level	Water Depth	Lev_Cod	Replicate	Time	Temp(°C)	pH	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)
TMCLKL	HY/2012/08	2014-06-06	Mid-Flood	Cloudy	Small Wave	IS12	Bottom	12.8	3	1	12:44	28.1	7.83	18.9	5.9	2.66	0.5
TMCLKL	HY/2012/08	2014-06-06	Mid-Flood	Cloudy	Small Wave	IS12	Bottom	12.8	3	2	12:44	28.1	7.82	18.9	5.94	2.62	0.7
TMCLKL	HY/2012/08	2014-06-06	Mid-Flood	Cloudy	Small Wave	IS13	Surface	1	1	1	12:25	28.3	7.82	18.2	6.02	2.39	0.6
TMCLKL	HY/2012/08	2014-06-06	Mid-Flood	Cloudy	Small Wave	IS13	Surface	1	1	2	12:25	28.3	7.82	18.2	6.05	2.44	1.6
TMCLKL	HY/2012/08	2014-06-06	Mid-Flood	Cloudy	Small Wave	IS13	Middle	6.6	2	1	12:25	28.1	7.83	18.8	5.81	2.68	0.5
TMCLKL	HY/2012/08	2014-06-06	Mid-Flood	Cloudy	Small Wave	IS13	Middle	6.6	2	2	12:25	28.1	7.83	18.7	5.85	2.65	0.5
TMCLKL	HY/2012/08	2014-06-06	Mid-Flood	Cloudy	Small Wave	IS13	Bottom	12.2	3	1	12:25	28	7.83	18.9	5.79	2.6	1
TMCLKL	HY/2012/08	2014-06-06	Mid-Flood	Cloudy	Small Wave	IS13	Bottom	12.2	3	2	12:25	28.1	7.83	18.9	5.75	2.64	0.7
TMCLKL	HY/2012/08	2014-06-06	Mid-Flood	Cloudy	Small Wave	IS14	Surface	1	1	1	13:03	28.3	7.83	18.2	6.08	2.07	1.3
TMCLKL	HY/2012/08	2014-06-06	Mid-Flood	Cloudy	Small Wave	IS14	Surface	1	1	2	13:03	28.2	7.84	18.1	6.12	2.02	0.8
TMCLKL	HY/2012/08	2014-06-06	Mid-Flood	Cloudy	Small Wave	IS14	Middle	7.3	2	1	13:03	28.2	7.85	18.7	5.77	2.59	0.8
TMCLKL	HY/2012/08	2014-06-06	Mid-Flood	Cloudy	Small Wave	IS14	Middle	7.3	2	2	13:03	28.1	7.85	18.8	5.74	2.51	0.6
TMCLKL	HY/2012/08	2014-06-06	Mid-Flood	Cloudy	Small Wave	IS14	Bottom	13.6	3	1	13:03	28.1	7.84	18.9	5.81	2.43	2.2
TMCLKL	HY/2012/08	2014-06-06	Mid-Flood	Cloudy	Small Wave	IS14	Bottom	13.6	3	2	13:03	28.1	7.84	18.9	5.78	2.4	1.1
TMCLKL	HY/2012/08	2014-06-06	Mid-Flood	Cloudy	Small Wave	IS15	Surface	1	1	1	12:06	28.3	7.82	18.1	6.06	2.45	0.7
TMCLKL	HY/2012/08	2014-06-06	Mid-Flood	Cloudy	Small Wave	IS15	Surface	1	1	2	12:06	28.3	7.82	18	6.02	2.49	1.2
TMCLKL	HY/2012/08	2014-06-06	Mid-Flood	Cloudy	Small Wave	IS15	Middle	6.2	2	1	12:06	28.2	7.8	18.5	5.64	2.51	1.2
TMCLKL	HY/2012/08	2014-06-06	Mid-Flood	Cloudy	Small Wave	IS15	Middle	6.2	2	2	12:06	28.2	7.81	18.4	5.6	2.57	1.1
TMCLKL	HY/2012/08	2014-06-06	Mid-Flood	Cloudy	Small Wave	IS15	Bottom	11.4	3	1	12:06	28.1	7.81	18.9	5.73	2.49	0.7
TMCLKL	HY/2012/08	2014-06-06	Mid-Flood	Cloudy	Small Wave	IS15	Bottom	11.4	3	2	12:06	28.2	7.8	18.9	5.76	2.47	1.9
TMCLKL	HY/2012/08	2014-06-06	Mid-Flood	Cloudy	Small Wave	SR8	Surface	1	1	1	11:35	28.2	7.8	18.1	6.02	2.33	2.4
TMCLKL	HY/2012/08	2014-06-06	Mid-Flood	Cloudy	Small Wave	SR8	Surface	1	1	2	11:35	28.2	7.8	18	6.06	2.38	0.9
TMCLKL	HY/2012/08	2014-06-06	Mid-Flood	Cloudy	Small Wave	SR8	Middle		2	1	11:35						
TMCLKL	HY/2012/08	2014-06-06	Mid-Flood	Cloudy	Small Wave	SR8	Middle		2	2	11:35						
TMCLKL	HY/2012/08	2014-06-06	Mid-Flood	Cloudy	Small Wave	SR8	Bottom	4.8	3	1	11:35	28	7.81	18.8	5.91	2.44	1.5
TMCLKL	HY/2012/08	2014-06-06	Mid-Flood	Cloudy	Small Wave	SR8	Bottom	4.8	3	2	11:35	28	7.82	18.8	5.94	2.4	1.4
TMCLKL	HY/2012/08	2014-06-06	Mid-Flood	Cloudy	Small Wave	SR9	Surface	1	1	1	11:50	28.3	7.83	18.1	5.98	2.32	2.2
TMCLKL	HY/2012/08	2014-06-06	Mid-Flood	Cloudy	Small Wave	SR9	Surface	1	1	2	11:50	28.3	7.82	18.1	5.94	2.27	2.4
TMCLKL	HY/2012/08	2014-06-06	Mid-Flood	Cloudy	Small Wave	SR9	Middle		2	1	11:50						
TMCLKL	HY/2012/08	2014-06-06	Mid-Flood	Cloudy	Small Wave	SR9	Middle		2	2	11:50						
TMCLKL	HY/2012/08	2014-06-06	Mid-Flood	Cloudy	Small Wave	SR9	Bottom	4.6	3	1	11:50	28.2	7.83	18.6	5.72	2.68	1.1
TMCLKL	HY/2012/08	2014-06-06	Mid-Flood	Cloudy	Small Wave	SR9	Bottom	4.6	3	2	11:50	28.2	7.83	18.6	5.68	2.65	2.3
TMCLKL	HY/2012/08	2014-06-06	Mid-Flood	Cloudy	Small Wave	SR10A	Surface	1	1	1	11:05	28.2	7.79	18.1	6.28	2.27	0.8
TMCLKL	HY/2012/08	2014-06-06	Mid-Flood	Cloudy	Small Wave	SR10A	Surface	1	1	2	11:05	28.1	7.79	18.1	6.24	2.3	0.8
TMCLKL	HY/2012/08	2014-06-06	Mid-Flood	Cloudy	Small Wave	SR10A	Middle	7.7	2	1	11:05	28.1	7.8	18.4	5.95	2.12	0.5
TMCLKL	HY/2012/08	2014-06-06	Mid-Flood	Cloudy	Small Wave	SR10A	Middle	7.7	2	2	11:05	28.2	7.81	18.4	5.91	2.17	0.5
TMCLKL	HY/2012/08	2014-06-06	Mid-Flood	Cloudy	Small Wave	SR10A	Bottom	14.4	3	1	11:05	28	7.81	18.8	5.88	2.09	0.5
TMCLKL	HY/2012/08	2014-06-06	Mid-Flood	Cloudy	Small Wave	SR10A	Bottom	14.4	3	2	11:05	28.1	7.82	18.7	5.84	2.15	1
TMCLKL	HY/2012/08	2014-06-06	Mid-Ebb	Cloudy	Small Wave	CS4	Surface	1	1	1	17:01	28.3	7.77	18.2	5.91	2.32	1.4
TMCLKL	HY/2012/08	2014-06-06	Mid-Ebb	Cloudy	Small Wave	CS4	Surface	1	1	2	17:01	28.4	7.76	18.2	5.93	2.35	0.5
TMCLKL	HY/2012/08	2014-06-06	Mid-Ebb	Cloudy	Small Wave	CS4	Middle	12.1	2	1	17:01	28.3	7.79	18.3	5.87	2.4	0.5
TMCLKL	HY/2012/08	2014-06-06	Mid-Ebb	Cloudy	Small Wave	CS4	Middle	12.1	2	2	17:01	28.3	7.81	18.4	5.86	2.44	1.1
TMCLKL	HY/2012/08	2014-06-06	Mid-Ebb	Cloudy	Small Wave	CS4	Bottom	23.2	3	1	17:01	28.2	7.81	18.6	5.64	2.57	0.5
TMCLKL	HY/2012/08	2014-06-06	Mid-Ebb	Cloudy	Small Wave	CS4	Bottom	23.2	3	2	17:01	28.3	7.82	18.8	5.66	2.59	0.5
TMCLKL	HY/2012/08	2014-06-06	Mid-Ebb	Cloudy	Small Wave	CS6	Surface	1	1	1	19:25	28.4	7.77	18.1	6.01	2.58	0.6
TMCLKL	HY/2012/08	2014-06-06	Mid-Ebb	Cloudy	Small Wave	CS6	Surface	1	1	2	19:25	28.5	7.78	18.2	6	2.62	1.4
TMCLKL	HY/2012/08	2014-06-06	Mid-Ebb	Cloudy	Small Wave	CS6	Middle	7.2	2	1	19:25	28.4	7.84	18.2	5.97	2.49	0.6
TMCLKL	HY/2012/08	2014-06-06	Mid-Ebb	Cloudy	Small Wave	CS6	Middle	7.2	2	2	19:25	28.3	7.85	18.3	5.95	2.56	1.2
TMCLKL	HY/2012/08	2014-06-06	Mid-Ebb	Cloudy	Small Wave	CS6	Bottom	13.4	3	1	19:25	28.2	7.86	18.8	5.88	2.64	0.8
TMCLKL	HY/2012/08	2014-06-06	Mid-Ebb	Cloudy	Small Wave	CS6	Bottom	13.4	3	2	19:25	28.2	7.87	18.7	5.86	2.68	1
TMCLKL	HY/2012/08	2014-06-06	Mid-Ebb	Cloudy	Small Wave	IS12	Surface	1	1	1	17:44	28.5	7.76	18.3	6.07	2.39	0.6
TMCLKL	HY/2012/08	2014-06-06	Mid-Ebb	Cloudy	Small Wave	IS12	Surface	1	1	2	17:44	28.6	7.78	18.4	6.03	2.34	1.6
TMCLKL	HY/2012/08	2014-06-06	Mid-Ebb	Cloudy	Small Wave	IS12	Middle	7	2	1	17:44	28.4	7.81	18.6	6	2.41	1.3
TMCLKL	HY/2012/08	2014-06-06	Mid-Ebb	Cloudy	Small Wave	IS12	Middle	7	2	2	17:44	28.3	7.8	18.5	5.98	2.42	1.5
TMCLKL	HY/2012/08	2014-06-06	Mid-Ebb	Cloudy	Small Wave	IS12	Bottom	13	3	1	17:44	28.2	7.82	18.9	5.87	2.51	1.3
TMCLKL	HY/2012/08	2014-06-06	Mid-Ebb	Cloudy	Small Wave	IS12	Bottom	13	3	2	17:44	28.1	7.84	18.8	5.88	2.53	1.3
TMCLKL	HY/2012/08	2014-06-06	Mid-Ebb	Cloudy	Small Wave	IS13	Surface	1	1	1	18:02	28.4	7.81	18.3	6	2.4	0.9
TMCLKL	HY/2012/08	2014-06-06	Mid-Ebb	Cloudy	Small Wave	IS13	Surface	1	1	2	18:02	28.4	7.82	18.3	5.98	2.45	0.6



Project	Works	Date	Tide	Weather	Sea Condition	Stat	Level	Water Depth	Lev_Cod	Replicate	Time	Temp(°C)	pH	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)
TMCLKL	HY/2012/08	2014-06-06	Mid-Ebb	Cloudy	Small Wave	IS13	Middle	6.5	2	1	18:02	28.3	7.82	18.7	5.8	2.71	1.5
TMCLKL	HY/2012/08	2014-06-06	Mid-Ebb	Cloudy	Small Wave	IS13	Middle	6.5	2	2	18:02	28.2	7.84	18.9	5.77	2.74	0.6
TMCLKL	HY/2012/08	2014-06-06	Mid-Ebb	Cloudy	Small Wave	IS13	Bottom	12	3	1	18:02	28.2	7.88	18.9	5.75	2.78	1.7
TMCLKL	HY/2012/08	2014-06-06	Mid-Ebb	Cloudy	Small Wave	IS13	Bottom	12	3	2	18:02	28.1	7.86	19	5.72	2.79	0.5
TMCLKL	HY/2012/08	2014-06-06	Mid-Ebb	Cloudy	Small Wave	IS14	Surface	1	1	1	17:27	28.4	7.79	18.4	6.02	2.37	0.7
TMCLKL	HY/2012/08	2014-06-06	Mid-Ebb	Cloudy	Small Wave	IS14	Surface	1	1	2	17:27	28.4	7.76	18.5	6	2.36	0.5
TMCLKL	HY/2012/08	2014-06-06	Mid-Ebb	Cloudy	Small Wave	IS14	Middle	7	2	1	17:27	28.3	7.8	18.5	5.94	2.45	1.1
TMCLKL	HY/2012/08	2014-06-06	Mid-Ebb	Cloudy	Small Wave	IS14	Middle	7	2	2	17:27	28.2	7.79	18.7	5.9	2.44	0.9
TMCLKL	HY/2012/08	2014-06-06	Mid-Ebb	Cloudy	Small Wave	IS14	Bottom	13	3	1	17:27	28.2	7.82	18.7	5.82	2.53	1.1
TMCLKL	HY/2012/08	2014-06-06	Mid-Ebb	Cloudy	Small Wave	IS14	Bottom	13	3	2	17:27	28.2	7.83	18.8	5.83	2.56	1.9
TMCLKL	HY/2012/08	2014-06-06	Mid-Ebb	Cloudy	Small Wave	IS15	Surface	1	1	1	18:21	28.5	7.73	18.3	6.09	2.41	1.3
TMCLKL	HY/2012/08	2014-06-06	Mid-Ebb	Cloudy	Small Wave	IS15	Surface	1	1	2	18:21	28.4	7.74	18.4	6.05	2.43	0.7
TMCLKL	HY/2012/08	2014-06-06	Mid-Ebb	Cloudy	Small Wave	IS15	Middle	6.1	2	1	18:21	28.3	7.76	18.5	5.83	2.51	0.9
TMCLKL	HY/2012/08	2014-06-06	Mid-Ebb	Cloudy	Small Wave	IS15	Middle	6.1	2	2	18:21	28.4	7.78	18.5	5.87	2.51	0.5
TMCLKL	HY/2012/08	2014-06-06	Mid-Ebb	Cloudy	Small Wave	IS15	Bottom	11.1	3	1	18:21	28.3	7.81	18.7	5.51	2.72	0.9
TMCLKL	HY/2012/08	2014-06-06	Mid-Ebb	Cloudy	Small Wave	IS15	Bottom	11.1	3	2	18:21	28.2	7.83	18.5	5.48	2.71	0.6
TMCLKL	HY/2012/08	2014-06-06	Mid-Ebb	Cloudy	Small Wave	SR8	Surface	1	1	1	18:54	28.4	7.81	18.3	5.98	2.36	0.7
TMCLKL	HY/2012/08	2014-06-06	Mid-Ebb	Cloudy	Small Wave	SR8	Surface	1	1	2	18:54	28.5	7.83	18.2	5.96	2.39	0.9
TMCLKL	HY/2012/08	2014-06-06	Mid-Ebb	Cloudy	Small Wave	SR8	Middle		2	1	18:54						
TMCLKL	HY/2012/08	2014-06-06	Mid-Ebb	Cloudy	Small Wave	SR8	Middle		2	2	18:54						
TMCLKL	HY/2012/08	2014-06-06	Mid-Ebb	Cloudy	Small Wave	SR8	Bottom	4.6	3	1	18:54	28.2	7.86	18.9	5.86	2.46	0.7
TMCLKL	HY/2012/08	2014-06-06	Mid-Ebb	Cloudy	Small Wave	SR8	Bottom	4.6	3	2	18:54	28.3	7.85	18.8	5.84	2.49	1
TMCLKL	HY/2012/08	2014-06-06	Mid-Ebb	Cloudy	Small Wave	SR9	Surface	1	1	1	18:39	28.4	7.86	18.2	6.07	2.33	1
TMCLKL	HY/2012/08	2014-06-06	Mid-Ebb	Cloudy	Small Wave	SR9	Surface	1	1	2	18:39	28.5	7.88	18.4	6.04	2.35	0.5
TMCLKL	HY/2012/08	2014-06-06	Mid-Ebb	Cloudy	Small Wave	SR9	Middle		2	1	18:39						
TMCLKL	HY/2012/08	2014-06-06	Mid-Ebb	Cloudy	Small Wave	SR9	Middle		2	2	18:39						
TMCLKL	HY/2012/08	2014-06-06	Mid-Ebb	Cloudy	Small Wave	SR9	Bottom	3.5	3	1	18:39	28.3	7.89	18.7	5.78	2.56	0.5
TMCLKL	HY/2012/08	2014-06-06	Mid-Ebb	Cloudy	Small Wave	SR9	Bottom	3.5	3	2	18:39	28.3	7.9	18.6	5.74	2.55	0.8
TMCLKL	HY/2012/08	2014-06-06	Mid-Ebb	Cloudy	Small Wave	SR10A	Surface	1	1	1	20:10	28.4	7.78	18.2	6.07	2.29	0.7
TMCLKL	HY/2012/08	2014-06-06	Mid-Ebb	Cloudy	Small Wave	SR10A	Surface	1	1	2	20:10	28.5	7.8	18.2	6.04	2.31	0.7
TMCLKL	HY/2012/08	2014-06-06	Mid-Ebb	Cloudy	Small Wave	SR10A	Middle	7.6	2	1	20:10	28.3	7.81	18.3	5.89	2.33	1
TMCLKL	HY/2012/08	2014-06-06	Mid-Ebb	Cloudy	Small Wave	SR10A	Middle	7.6	2	2	20:10	28.3	7.84	18.5	5.86	2.32	0.8
TMCLKL	HY/2012/08	2014-06-06	Mid-Ebb	Cloudy	Small Wave	SR10A	Bottom	14.1	3	1	20:10	28.2	7.86	18.9	5.74	2.41	0.9
TMCLKL	HY/2012/08	2014-06-06	Mid-Ebb	Cloudy	Small Wave	SR10A	Bottom	14.1	3	2	20:10	28.1	7.85	18.9	5.75	2.45	1.2
TMCLKL	HY/2012/08	2014-06-09	Mid-Flood	Cloudy	Small Wave	CS4	Surface	1	1	1	18:09	28.5	7.89	18.2	6.07	2.25	1.3
TMCLKL	HY/2012/08	2014-06-09	Mid-Flood	Cloudy	Small Wave	CS4	Surface	1	1	2	18:09	28.4	7.88	18.3	6.1	2.21	1.5
TMCLKL	HY/2012/08	2014-06-09	Mid-Flood	Cloudy	Small Wave	CS4	Middle	12.3	2	1	18:09	28.4	7.88	18.8	6.01	2.35	1.3
TMCLKL	HY/2012/08	2014-06-09	Mid-Flood	Cloudy	Small Wave	CS4	Middle	12.3	2	2	18:09	28.3	7.89	18.9	6.04	2.31	0.6
TMCLKL	HY/2012/08	2014-06-09	Mid-Flood	Cloudy	Small Wave	CS4	Bottom	23.6	3	1	18:09	28.2	7.89	18.9	5.8	2.42	1.5
TMCLKL	HY/2012/08	2014-06-09	Mid-Flood	Cloudy	Small Wave	CS4	Bottom	23.6	3	2	18:09	28.2	7.9	19	5.76	2.46	1.9
TMCLKL	HY/2012/08	2014-06-09	Mid-Flood	Cloudy	Small Wave	CS6	Surface	1	1	1	14:57	28.1	7.85	18.1	6.3	2.34	1.1
TMCLKL	HY/2012/08	2014-06-09	Mid-Flood	Cloudy	Small Wave	CS6	Surface	1	1	2	14:57	28.2	7.86	18	6.28	2.44	1.6
TMCLKL	HY/2012/08	2014-06-09	Mid-Flood	Cloudy	Small Wave	CS6	Middle	7.4	2	1	14:57	28.2	7.87	18.3	6.13	2.51	1.6
TMCLKL	HY/2012/08	2014-06-09	Mid-Flood	Cloudy	Small Wave	CS6	Middle	7.4	2	2	14:57	28.1	7.88	18.4	6.1	2.6	1.5
TMCLKL	HY/2012/08	2014-06-09	Mid-Flood	Cloudy	Small Wave	CS6	Bottom	13.8	3	1	14:57	28	7.89	18.8	6	2.83	2
TMCLKL	HY/2012/08	2014-06-09	Mid-Flood	Cloudy	Small Wave	CS6	Bottom	13.8	3	2	14:57	27.9	7.9	18.9	6.03	2.88	1.7
TMCLKL	HY/2012/08	2014-06-09	Mid-Flood	Cloudy	Small Wave	IS12	Surface	1	1	1	17:21	28.3	7.89	18.2	6.18	2.43	1.1
TMCLKL	HY/2012/08	2014-06-09	Mid-Flood	Cloudy	Small Wave	IS12	Surface	1	1	2	17:21	28.4	7.88	18.3	6.14	2.48	1
TMCLKL	HY/2012/08	2014-06-09	Mid-Flood	Cloudy	Small Wave	IS12	Middle	7.1	2	1	17:21	28.2	7.89	18.8	6.04	2.63	1.5
TMCLKL	HY/2012/08	2014-06-09	Mid-Flood	Cloudy	Small Wave	IS12	Middle	7.1	2	2	17:21	28.3	7.9	18.9	6.01	2.68	1.7
TMCLKL	HY/2012/08	2014-06-09	Mid-Flood	Cloudy	Small Wave	IS12	Bottom	13.2	3	1	17:21	28.2	7.88	18.9	5.96	2.57	1.5
TMCLKL	HY/2012/08	2014-06-09	Mid-Flood	Cloudy	Small Wave	IS12	Bottom	13.2	3	2	17:21	28.1	7.89	19	6	2.53	1.7
TMCLKL	HY/2012/08	2014-06-09	Mid-Flood	Cloudy	Small Wave	IS13	Surface	1	1	1	16:57	28.4	7.86	18.2	6.08	2.3	1.5
TMCLKL	HY/2012/08	2014-06-09	Mid-Flood	Cloudy	Small Wave	IS13	Surface	1	1	2	16:57	28.3	7.85	18.3	6.11	2.35	1.6
TMCLKL	HY/2012/08	2014-06-09	Mid-Flood	Cloudy	Small Wave	IS13	Middle	6.7	2	1	16:57	28.2	7.88	18.6	5.87	2.43	1.8
TMCLKL	HY/2012/08	2014-06-09	Mid-Flood	Cloudy	Small Wave	IS13	Middle	6.7	2	2	16:57	28.1	7.87	18.7	5.91	2.4	1.7
TMCLKL	HY/2012/08	2014-06-09	Mid-Flood	Cloudy	Small Wave	IS13	Bottom	12.4	3	1	16:57	28.1	7.88	18.9	5.85	2.45	1.9
TMCLKL	HY/2012/08	2014-06-09	Mid-Flood	Cloudy	Small Wave	IS13	Bottom	12.4	3	2	16:57	28	7.89	18.8	5.81	2.49	1.9

Project	Works	Date	Tide	Weather	Sea Condition	Stat	Level	Water Depth	Lev_Cod	Replicate	Time	Temp(°C)	pH	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)
TMCLKL	HY/2012/08	2014-06-09	Mid-Flood	Cloudy	Small Wave	IS14	Surface	1	1	1	17:45	28.3	7.88	18.3	6.14	2.22	1.7
TMCLKL	HY/2012/08	2014-06-09	Mid-Flood	Cloudy	Small Wave	IS14	Surface	1	1	2	17:45	28.4	7.89	18.2	6.18	2.24	1.8
TMCLKL	HY/2012/08	2014-06-09	Mid-Flood	Cloudy	Small Wave	IS14	Middle	7.4	2	1	17:45	28.3	7.9	18.8	5.83	2.43	1.7
TMCLKL	HY/2012/08	2014-06-09	Mid-Flood	Cloudy	Small Wave	IS14	Middle	7.4	2	2	17:45	28.2	7.89	18.7	5.8	2.48	2
TMCLKL	HY/2012/08	2014-06-09	Mid-Flood	Cloudy	Small Wave	IS14	Bottom	13.8	3	1	17:45	28.1	7.89	18.8	5.87	2.5	2.1
TMCLKL	HY/2012/08	2014-06-09	Mid-Flood	Cloudy	Small Wave	IS14	Bottom	13.8	3	2	17:45	28	7.9	18.9	5.84	2.55	2.2
TMCLKL	HY/2012/08	2014-06-09	Mid-Flood	Cloudy	Small Wave	IS15	Surface	1	1	1	16:33	28.3	7.87	18.1	6.12	2.36	1.5
TMCLKL	HY/2012/08	2014-06-09	Mid-Flood	Cloudy	Small Wave	IS15	Surface	1	1	2	16:33	28.4	7.86	18.2	6.08	2.4	1.2
TMCLKL	HY/2012/08	2014-06-09	Mid-Flood	Cloudy	Small Wave	IS15	Middle	6.4	2	1	16:33	28.3	7.85	18.5	5.7	2.42	1.1
TMCLKL	HY/2012/08	2014-06-09	Mid-Flood	Cloudy	Small Wave	IS15	Middle	6.4	2	2	16:33	28.2	7.86	18.6	5.66	2.48	1
TMCLKL	HY/2012/08	2014-06-09	Mid-Flood	Cloudy	Small Wave	IS15	Bottom	11.8	3	1	16:33	28	7.86	18.8	5.79	2.41	0.9
TMCLKL	HY/2012/08	2014-06-09	Mid-Flood	Cloudy	Small Wave	IS15	Bottom	11.8	3	2	16:33	28.1	7.85	18.9	5.8	2.37	1.3
TMCLKL	HY/2012/08	2014-06-09	Mid-Flood	Cloudy	Small Wave	SR8	Surface	1	1	1	15:45	28.3	7.87	18.1	6.08	2.13	1.8
TMCLKL	HY/2012/08	2014-06-09	Mid-Flood	Cloudy	Small Wave	SR8	Surface	1	1	2	15:45	28.2	7.88	18.2	6.12	2.18	1.9
TMCLKL	HY/2012/08	2014-06-09	Mid-Flood	Cloudy	Small Wave	SR8	Middle		2	1	15:45						
TMCLKL	HY/2012/08	2014-06-09	Mid-Flood	Cloudy	Small Wave	SR8	Middle		2	2	15:45						
TMCLKL	HY/2012/08	2014-06-09	Mid-Flood	Cloudy	Small Wave	SR8	Bottom	4.6	3	1	15:45	28.1	7.9	18.9	5.97	2.68	2.4
TMCLKL	HY/2012/08	2014-06-09	Mid-Flood	Cloudy	Small Wave	SR8	Bottom	4.6	3	2	15:45	28	7.91	18.8	6	2.71	2.1
TMCLKL	HY/2012/08	2014-06-09	Mid-Flood	Cloudy	Small Wave	SR9	Surface	1	1	1	16:09	28.2	7.88	18.1	6.04	2.23	2
TMCLKL	HY/2012/08	2014-06-09	Mid-Flood	Cloudy	Small Wave	SR9	Surface	1	1	2	16:09	28.1	7.87	18.2	6.02	2.18	1.9
TMCLKL	HY/2012/08	2014-06-09	Mid-Flood	Cloudy	Small Wave	SR9	Middle		2	1	16:09						
TMCLKL	HY/2012/08	2014-06-09	Mid-Flood	Cloudy	Small Wave	SR9	Middle		2	2	16:09						
TMCLKL	HY/2012/08	2014-06-09	Mid-Flood	Cloudy	Small Wave	SR9	Bottom	4.8	3	1	16:09	28.1	7.88	18.7	5.78	2.59	2.1
TMCLKL	HY/2012/08	2014-06-09	Mid-Flood	Cloudy	Small Wave	SR9	Bottom	4.8	3	2	16:09	28	7.89	18.6	5.74	2.56	1.9
TMCLKL	HY/2012/08	2014-06-09	Mid-Flood	Cloudy	Small Wave	SR10A	Surface	1	1	1	15:21	28.2	7.86	18.2	6.34	2.23	1.8
TMCLKL	HY/2012/08	2014-06-09	Mid-Flood	Cloudy	Small Wave	SR10A	Surface	1	1	2	15:21	28.3	7.87	18.1	6.3	2.19	1.8
TMCLKL	HY/2012/08	2014-06-09	Mid-Flood	Cloudy	Small Wave	SR10A	Middle	7.9	2	1	15:21	28.3	7.87	18.4	6.01	2.45	2.1
TMCLKL	HY/2012/08	2014-06-09	Mid-Flood	Cloudy	Small Wave	SR10A	Middle	7.9	2	2	15:21	28.2	7.88	18.5	5.97	2.48	2
TMCLKL	HY/2012/08	2014-06-09	Mid-Flood	Cloudy	Small Wave	SR10A	Bottom	14.8	3	1	15:21	28.1	7.88	18.8	5.94	2.77	2.1
TMCLKL	HY/2012/08	2014-06-09	Mid-Flood	Cloudy	Small Wave	SR10A	Bottom	14.8	3	2	15:21	28.2	7.89	18.9	5.9	2.75	2.9
TMCLKL	HY/2012/08	2014-06-09	Mid-Ebb	Cloudy	Small Wave	CS4	Surface	1	1	1	08:40	28.3	7.88	18.1	5.99	2.33	1
TMCLKL	HY/2012/08	2014-06-09	Mid-Ebb	Cloudy	Small Wave	CS4	Surface	1	1	2	08:40	28.3	7.9	18.3	6.02	2.31	1.1
TMCLKL	HY/2012/08	2014-06-09	Mid-Ebb	Cloudy	Small Wave	CS4	Middle	12.2	2	1	08:40	28.2	7.87	18.6	5.95	2.43	1.8
TMCLKL	HY/2012/08	2014-06-09	Mid-Ebb	Cloudy	Small Wave	CS4	Middle	12.2	2	2	08:40	28.3	7.88	18.7	5.97	2.47	2.1
TMCLKL	HY/2012/08	2014-06-09	Mid-Ebb	Cloudy	Small Wave	CS4	Bottom	23.4	3	1	08:40	28.2	7.9	19	5.73	2.52	2.5
TMCLKL	HY/2012/08	2014-06-09	Mid-Ebb	Cloudy	Small Wave	CS4	Bottom	23.4	3	2	08:40	28.2	7.89	18.9	5.69	2.54	2
TMCLKL	HY/2012/08	2014-06-09	Mid-Ebb	Cloudy	Small Wave	CS6	Surface	1	1	1	11:44	28.4	7.86	18.2	6.22	2.42	1.4
TMCLKL	HY/2012/08	2014-06-09	Mid-Ebb	Cloudy	Small Wave	CS6	Surface	1	1	2	11:44	28.3	7.87	18.1	6.2	2.51	1.5
TMCLKL	HY/2012/08	2014-06-09	Mid-Ebb	Cloudy	Small Wave	CS6	Middle	7.3	2	1	11:44	28.3	7.87	18.6	6.05	2.58	1.5
TMCLKL	HY/2012/08	2014-06-09	Mid-Ebb	Cloudy	Small Wave	CS6	Middle	7.3	2	2	11:44	28.2	7.89	18.6	6.04	2.66	1.3
TMCLKL	HY/2012/08	2014-06-09	Mid-Ebb	Cloudy	Small Wave	CS6	Bottom	13.6	3	1	11:44	28.1	7.9	18.9	5.93	2.91	1.4
TMCLKL	HY/2012/08	2014-06-09	Mid-Ebb	Cloudy	Small Wave	CS6	Bottom	13.6	3	2	11:44	28.2	7.89	18.8	5.95	2.95	1.6
TMCLKL	HY/2012/08	2014-06-09	Mid-Ebb	Cloudy	Small Wave	IS12	Surface	1	1	1	09:26	28.3	7.88	18.3	6.1	2.5	1.8
TMCLKL	HY/2012/08	2014-06-09	Mid-Ebb	Cloudy	Small Wave	IS12	Surface	1	1	2	09:26	28.3	7.87	18.2	6.08	2.54	2
TMCLKL	HY/2012/08	2014-06-09	Mid-Ebb	Cloudy	Small Wave	IS12	Middle	7	2	1	09:26	28.2	7.89	18.7	5.97	2.71	1.7
TMCLKL	HY/2012/08	2014-06-09	Mid-Ebb	Cloudy	Small Wave	IS12	Middle	7	2	2	09:26	28.3	7.89	18.6	5.96	2.69	1.7
TMCLKL	HY/2012/08	2014-06-09	Mid-Ebb	Cloudy	Small Wave	IS12	Bottom	13	3	1	09:26	28.2	7.87	19	5.88	2.64	1.8
TMCLKL	HY/2012/08	2014-06-09	Mid-Ebb	Cloudy	Small Wave	IS12	Bottom	13	3	2	09:26	28.2	7.88	18.9	5.91	2.62	2.2
TMCLKL	HY/2012/08	2014-06-09	Mid-Ebb	Cloudy	Small Wave	IS13	Surface	1	1	1	09:49	28.4	7.87	18.3	6.01	2.37	1.5
TMCLKL	HY/2012/08	2014-06-09	Mid-Ebb	Cloudy	Small Wave	IS13	Surface	1	1	2	09:49	28.4	7.86	18.2	6.03	2.41	1.3
TMCLKL	HY/2012/08	2014-06-09	Mid-Ebb	Cloudy	Small Wave	IS13	Middle	6.6	2	1	09:49	28.3	7.89	18.6	5.79	2.5	1.7
TMCLKL	HY/2012/08	2014-06-09	Mid-Ebb	Cloudy	Small Wave	IS13	Middle	6.6	2	2	09:49	28.4	7.88	18.7	5.75	2.48	2
TMCLKL	HY/2012/08	2014-06-09	Mid-Ebb	Cloudy	Small Wave	IS13	Bottom	12.2	3	1	09:49	28.3	7.88	19	5.76	2.53	2.2
TMCLKL	HY/2012/08	2014-06-09	Mid-Ebb	Cloudy	Small Wave	IS13	Bottom	12.2	3	2	09:49	28.3	7.87	18.9	5.73	2.57	1.9
TMCLKL	HY/2012/08	2014-06-09	Mid-Ebb	Cloudy	Small Wave	IS14	Surface	1	1	1	09:03	28.4	7.86	18.3	6.06	2.3	1.2
TMCLKL	HY/2012/08	2014-06-09	Mid-Ebb	Cloudy	Small Wave	IS14	Surface	1	1	2	09:03	28.3	7.88	18.2	6.1	2.32	1
TMCLKL	HY/2012/08	2014-06-09	Mid-Ebb	Cloudy	Small Wave	IS14	Middle	7.3	2	1	09:03	28.3	7.89	18.7	5.75	2.5	1.4
TMCLKL	HY/2012/08	2014-06-09	Mid-Ebb	Cloudy	Small Wave	IS14	Middle	7.3	2	2	09:03	28.3	7.88	18.7	5.72	2.54	1.5

Project	Works	Date	Tide	Weather	Sea Condition	Stat	Level	Water Depth	Lev_Cod	Replicate	Time	Temp(°C)	pH	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)
TMCLKL	HY/2012/08	2014-06-09	Mid-Ebb	Cloudy	Small Wave	IS14	Bottom	13.6	3	1	09:03	28.2	7.88	18.9	5.8	2.57	1.9
TMCLKL	HY/2012/08	2014-06-09	Mid-Ebb	Cloudy	Small Wave	IS14	Bottom	13.6	3	2	09:03	28.3	7.89	19.1	5.77	2.59	2.1
TMCLKL	HY/2012/08	2014-06-09	Mid-Ebb	Cloudy	Small Wave	IS15	Surface	1	1	1	10:12	28.3	7.88	18.2	6.04	2.44	0.5
TMCLKL	HY/2012/08	2014-06-09	Mid-Ebb	Cloudy	Small Wave	IS15	Surface	1	1	2	10:12	28.4	7.87	18.2	6	2.48	0.5
TMCLKL	HY/2012/08	2014-06-09	Mid-Ebb	Cloudy	Small Wave	IS15	Middle	6.3	2	1	10:12	28.3	7.84	18.7	5.63	2.49	1.3
TMCLKL	HY/2012/08	2014-06-09	Mid-Ebb	Cloudy	Small Wave	IS15	Middle	6.3	2	2	10:12	28.2	7.85	18.8	5.59	2.53	1.1
TMCLKL	HY/2012/08	2014-06-09	Mid-Ebb	Cloudy	Small Wave	IS15	Bottom	11.6	3	1	10:12	28.2	7.87	19	5.71	2.49	2.3
TMCLKL	HY/2012/08	2014-06-09	Mid-Ebb	Cloudy	Small Wave	IS15	Bottom	11.6	3	2	10:12	28.3	7.86	19.1	5.72	2.45	2.3
TMCLKL	HY/2012/08	2014-06-09	Mid-Ebb	Cloudy	Small Wave	SR8	Surface	1	1	1	10:58	28.4	7.88	18.3	6.01	2.2	0.5
TMCLKL	HY/2012/08	2014-06-09	Mid-Ebb	Cloudy	Small Wave	SR8	Surface	1	1	2	10:58	28.3	7.89	18.2	6.04	2.26	0.7
TMCLKL	HY/2012/08	2014-06-09	Mid-Ebb	Cloudy	Small Wave	SR8	Middle		2	1	10:58						
TMCLKL	HY/2012/08	2014-06-09	Mid-Ebb	Cloudy	Small Wave	SR8	Middle		2	2	10:58						
TMCLKL	HY/2012/08	2014-06-09	Mid-Ebb	Cloudy	Small Wave	SR8	Bottom	4.3	3	1	10:58	28.3	7.91	18.9	5.9	2.76	1.4
TMCLKL	HY/2012/08	2014-06-09	Mid-Ebb	Cloudy	Small Wave	SR8	Bottom	4.3	3	2	10:58	28.3	7.9	18.9	5.92	2.8	1.2
TMCLKL	HY/2012/08	2014-06-09	Mid-Ebb	Cloudy	Small Wave	SR9	Surface	1	1	1	10:35	28.3	7.89	18.2	5.96	2.3	1.6
TMCLKL	HY/2012/08	2014-06-09	Mid-Ebb	Cloudy	Small Wave	SR9	Surface	1	1	2	10:35	28.3	7.88	18.1	5.93	2.26	1.6
TMCLKL	HY/2012/08	2014-06-09	Mid-Ebb	Cloudy	Small Wave	SR9	Middle		2	1	10:35						
TMCLKL	HY/2012/08	2014-06-09	Mid-Ebb	Cloudy	Small Wave	SR9	Middle		2	2	10:35						
TMCLKL	HY/2012/08	2014-06-09	Mid-Ebb	Cloudy	Small Wave	SR9	Bottom	4.5	3	1	10:35	28.2	7.89	18.7	5.7	2.67	2.2
TMCLKL	HY/2012/08	2014-06-09	Mid-Ebb	Cloudy	Small Wave	SR9	Bottom	4.5	3	2	10:35	28.2	7.87	18.7	5.67	2.5	1.9
TMCLKL	HY/2012/08	2014-06-09	Mid-Ebb	Cloudy	Small Wave	SR10A	Surface	1	1	1	11:21	28.3	7.85	18.2	6.26	2.3	0.7
TMCLKL	HY/2012/08	2014-06-09	Mid-Ebb	Cloudy	Small Wave	SR10A	Surface	1	1	2	11:21	28.3	7.86	18.2	6.24	2.27	0.5
TMCLKL	HY/2012/08	2014-06-09	Mid-Ebb	Cloudy	Small Wave	SR10A	Middle	7.8	2	1	11:21	28.2	7.86	18.6	5.93	2.53	1
TMCLKL	HY/2012/08	2014-06-09	Mid-Ebb	Cloudy	Small Wave	SR10A	Middle	7.8	2	2	11:21	28.3	7.87	18.7	5.9	2.55	1.1
TMCLKL	HY/2012/08	2014-06-09	Mid-Ebb	Cloudy	Small Wave	SR10A	Bottom	14.5	3	1	11:21	28.2	7.88	18.9	5.86	2.86	1.4
TMCLKL	HY/2012/08	2014-06-09	Mid-Ebb	Cloudy	Small Wave	SR10A	Bottom	14.5	3	2	11:21	28.2	7.89	18.8	5.83	2.84	1.8
TMCLKL	HY/2012/08	2014-06-11	Mid-Flood	Cloudy	Small Wave	CS4	Surface	1	1	1	19:40	27.3	7.67	17.7	6.53	1.95	2.9
TMCLKL	HY/2012/08	2014-06-11	Mid-Flood	Cloudy	Small Wave	CS4	Surface	1	1	2	19:40	27.3	7.69	17.8	6.51	1.98	2.6
TMCLKL	HY/2012/08	2014-06-11	Mid-Flood	Cloudy	Small Wave	CS4	Middle	11.8	2	1	19:40	27.4	7.73	18	6.44	2.03	2.7
TMCLKL	HY/2012/08	2014-06-11	Mid-Flood	Cloudy	Small Wave	CS4	Middle	11.8	2	2	19:40	27.5	7.7	18.1	6.41	2.03	2.8
TMCLKL	HY/2012/08	2014-06-11	Mid-Flood	Cloudy	Small Wave	CS4	Bottom	22.5	3	1	19:40	27.7	7.79	18.3	6.38	2.12	2.2
TMCLKL	HY/2012/08	2014-06-11	Mid-Flood	Cloudy	Small Wave	CS4	Bottom	22.5	3	2	19:40	27.7	7.76	18.2	6.34	2.11	2.7
TMCLKL	HY/2012/08	2014-06-11	Mid-Flood	Cloudy	Small Wave	CS6	Surface	1	1	1	16:48	27.4	7.71	17.8	6.62	1.93	3.4
TMCLKL	HY/2012/08	2014-06-11	Mid-Flood	Cloudy	Small Wave	CS6	Surface	1	1	2	16:48	27.3	7.68	17.7	6.65	1.99	3.4
TMCLKL	HY/2012/08	2014-06-11	Mid-Flood	Cloudy	Small Wave	CS6	Middle	6.9	2	1	16:48	27.6	7.73	17.9	6.59	2.12	2.7
TMCLKL	HY/2012/08	2014-06-11	Mid-Flood	Cloudy	Small Wave	CS6	Middle	6.9	2	2	16:48	27.6	7.76	18.1	6.56	2.16	2.7
TMCLKL	HY/2012/08	2014-06-11	Mid-Flood	Cloudy	Small Wave	CS6	Bottom	12.8	3	1	16:48	27.7	7.81	18.2	6.43	2.27	2.9
TMCLKL	HY/2012/08	2014-06-11	Mid-Flood	Cloudy	Small Wave	CS6	Bottom	12.8	3	2	16:48	27.6	7.82	18.2	6.4	2.24	2.5
TMCLKL	HY/2012/08	2014-06-11	Mid-Flood	Cloudy	Small Wave	IS12	Surface	1	1	1	18:52	27.2	7.72	17.8	6.68	2.01	3
TMCLKL	HY/2012/08	2014-06-11	Mid-Flood	Cloudy	Small Wave	IS12	Surface	1	1	2	18:52	27.3	7.75	17.8	6.64	1.97	2.6
TMCLKL	HY/2012/08	2014-06-11	Mid-Flood	Cloudy	Small Wave	IS12	Middle	7.8	2	1	18:52	27.7	7.78	18.2	6.53	2.16	2.9
TMCLKL	HY/2012/08	2014-06-11	Mid-Flood	Cloudy	Small Wave	IS12	Middle	7.8	2	2	18:52	27.6	7.76	18.1	6.58	2.14	2.7
TMCLKL	HY/2012/08	2014-06-11	Mid-Flood	Cloudy	Small Wave	IS12	Bottom	14.5	3	1	18:52	27.8	7.82	18.2	6.49	2.23	2
TMCLKL	HY/2012/08	2014-06-11	Mid-Flood	Cloudy	Small Wave	IS12	Bottom	14.5	3	2	18:52	27.7	7.81	18.2	6.47	2.22	2.2
TMCLKL	HY/2012/08	2014-06-11	Mid-Flood	Cloudy	Small Wave	IS13	Surface	1	1	1	18:31	27.4	7.67	17.6	6.55	1.95	3.7
TMCLKL	HY/2012/08	2014-06-11	Mid-Flood	Cloudy	Small Wave	IS13	Surface	1	1	2	18:31	27.4	7.64	17.6	6.58	1.98	2.4
TMCLKL	HY/2012/08	2014-06-11	Mid-Flood	Cloudy	Small Wave	IS13	Middle	6.3	2	1	18:31	27.6	7.7	17.9	6.42	2.02	2.1
TMCLKL	HY/2012/08	2014-06-11	Mid-Flood	Cloudy	Small Wave	IS13	Middle	6.3	2	2	18:31	27.7	7.69	17.8	6.43	2.01	3.3
TMCLKL	HY/2012/08	2014-06-11	Mid-Flood	Cloudy	Small Wave	IS13	Bottom	11.5	3	1	18:31	27.7	7.73	18.1	6.37	2.18	3.1
TMCLKL	HY/2012/08	2014-06-11	Mid-Flood	Cloudy	Small Wave	IS13	Bottom	11.5	3	2	18:31	27.7	7.72	18.1	6.35	2.14	2.3
TMCLKL	HY/2012/08	2014-06-11	Mid-Flood	Cloudy	Small Wave	IS14	Surface	1	1	1	19:20	27.4	7.69	17.9	6.72	1.83	3.2
TMCLKL	HY/2012/08	2014-06-11	Mid-Flood	Cloudy	Small Wave	IS14	Surface	1	1	2	19:20	27.3	7.72	17.8	6.71	1.87	2.5
TMCLKL	HY/2012/08	2014-06-11	Mid-Flood	Cloudy	Small Wave	IS14	Middle	8.4	2	1	19:20	27.5	7.74	18.1	6.62	1.99	2.9
TMCLKL	HY/2012/08	2014-06-11	Mid-Flood	Cloudy	Small Wave	IS14	Middle	8.4	2	2	19:20	27.5	7.79	18.1	6.58	2.03	3
TMCLKL	HY/2012/08	2014-06-11	Mid-Flood	Cloudy	Small Wave	IS14	Bottom	15.7	3	1	19:20	27.6	7.82	18.2	6.51	2.11	3.2
TMCLKL	HY/2012/08	2014-06-11	Mid-Flood	Cloudy	Small Wave	IS14	Bottom	15.7	3	2	19:20	27.5	7.8	18.1	6.54	2.08	4.2
TMCLKL	HY/2012/08	2014-06-11	Mid-Flood	Cloudy	Small Wave	IS15	Surface	1	1	1	18:11	27.3	7.71	17.7	6.56	2.04	3.3
TMCLKL	HY/2012/08	2014-06-11	Mid-Flood	Cloudy	Small Wave	IS15	Surface	1	1	2	18:11	27.3	7.72	17.8	6.53	2.01	3.4



Project	Works	Date	Tide	Weather	Sea Condition	Stat	Level	Water Depth	Lev_Cod	Replicate	Time	Temp(°C)	pH	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)
TMCLKL	HY/2012/08	2014-06-11	Mid-Flood	Cloudy	Small Wave	IS15	Middle	6.4	2	1	18:11	27.5	7.78	18.1	6.47	2.16	2.6
TMCLKL	HY/2012/08	2014-06-11	Mid-Flood	Cloudy	Small Wave	IS15	Middle	6.4	2	2	18:11	27.6	7.79	18	6.45	2.19	2.1
TMCLKL	HY/2012/08	2014-06-11	Mid-Flood	Cloudy	Small Wave	IS15	Bottom	11.7	3	1	18:11	27.6	7.82	18.2	6.36	2.25	2.1
TMCLKL	HY/2012/08	2014-06-11	Mid-Flood	Cloudy	Small Wave	IS15	Bottom	11.7	3	2	18:11	27.6	7.82	18.3	6.39	2.24	2.2
TMCLKL	HY/2012/08	2014-06-11	Mid-Flood	Cloudy	Small Wave	SR8	Surface	1	1	1	17:29	27.2	7.77	17.5	6.49	2.08	2.1
TMCLKL	HY/2012/08	2014-06-11	Mid-Flood	Cloudy	Small Wave	SR8	Surface	1	1	2	17:29	27.3	7.74	17.4	6.52	2.02	2.4
TMCLKL	HY/2012/08	2014-06-11	Mid-Flood	Cloudy	Small Wave	SR8	Middle		2	1	17:29						
TMCLKL	HY/2012/08	2014-06-11	Mid-Flood	Cloudy	Small Wave	SR8	Middle		2	2	17:29						
TMCLKL	HY/2012/08	2014-06-11	Mid-Flood	Cloudy	Small Wave	SR8	Bottom	4.8	3	1	17:29	27.4	7.79	17.6	6.42	2.26	2.9
TMCLKL	HY/2012/08	2014-06-11	Mid-Flood	Cloudy	Small Wave	SR8	Bottom	4.8	3	2	17:29	27.5	7.78	17.6	6.41	2.22	2.7
TMCLKL	HY/2012/08	2014-06-11	Mid-Flood	Cloudy	Small Wave	SR9	Surface	1	1	1	17:50	27.4	7.68	17.6	6.42	2.11	3
TMCLKL	HY/2012/08	2014-06-11	Mid-Flood	Cloudy	Small Wave	SR9	Surface	1	1	2	17:50	27.3	7.65	17.5	6.43	2.13	2.9
TMCLKL	HY/2012/08	2014-06-11	Mid-Flood	Cloudy	Small Wave	SR9	Middle		2	1	17:50						
TMCLKL	HY/2012/08	2014-06-11	Mid-Flood	Cloudy	Small Wave	SR9	Middle		2	2	17:50						
TMCLKL	HY/2012/08	2014-06-11	Mid-Flood	Cloudy	Small Wave	SR9	Bottom	4.7	3	1	17:50	27.5	7.72	17.8	6.38	2.27	2.2
TMCLKL	HY/2012/08	2014-06-11	Mid-Flood	Cloudy	Small Wave	SR9	Bottom	4.7	3	2	17:50	27.6	7.7	17.8	6.36	2.31	2.6
TMCLKL	HY/2012/08	2014-06-11	Mid-Flood	Cloudy	Small Wave	SR10A	Surface	1	1	1	17:08	27.3	7.75	17.6	6.52	1.98	2.7
TMCLKL	HY/2012/08	2014-06-11	Mid-Flood	Cloudy	Small Wave	SR10A	Surface	1	1	2	17:08	27.3	7.74	17.7	6.53	2.03	3.1
TMCLKL	HY/2012/08	2014-06-11	Mid-Flood	Cloudy	Small Wave	SR10A	Middle	7.4	2	1	17:08	27.5	7.77	18	6.46	2.09	2.7
TMCLKL	HY/2012/08	2014-06-11	Mid-Flood	Cloudy	Small Wave	SR10A	Middle	7.4	2	2	17:08	27.4	7.76	17.9	6.43	2.09	3.7
TMCLKL	HY/2012/08	2014-06-11	Mid-Flood	Cloudy	Small Wave	SR10A	Bottom	13.7	3	1	17:08	27.7	7.81	18.1	6.33	2.17	3.3
TMCLKL	HY/2012/08	2014-06-11	Mid-Flood	Cloudy	Small Wave	SR10A	Bottom	13.7	3	2	17:08	27.7	7.83	18	6.37	2.14	2
TMCLKL	HY/2012/08	2014-06-11	Mid-Ebb	Cloudy	Small Wave	CS4	Surface	1	1	1	09:54	27.1	7.61	18.1	6.48	2.08	4.2
TMCLKL	HY/2012/08	2014-06-11	Mid-Ebb	Cloudy	Small Wave	CS4	Surface	1	1	2	09:54	27	7.58	18.1	6.45	2.1	4.1
TMCLKL	HY/2012/08	2014-06-11	Mid-Ebb	Cloudy	Small Wave	CS4	Middle	11.6	2	1	09:54	27.2	7.65	18.3	6.35	2.21	3.5
TMCLKL	HY/2012/08	2014-06-11	Mid-Ebb	Cloudy	Small Wave	CS4	Middle	11.6	2	2	09:54	27.2	7.68	18.4	6.32	2.26	3.8
TMCLKL	HY/2012/08	2014-06-11	Mid-Ebb	Cloudy	Small Wave	CS4	Bottom	22.2	3	1	09:54	27.4	7.71	18.6	6.3	2.32	2.1
TMCLKL	HY/2012/08	2014-06-11	Mid-Ebb	Cloudy	Small Wave	CS4	Bottom	22.2	3	2	09:54	27.4	7.72	18.5	6.27	2.31	2.4
TMCLKL	HY/2012/08	2014-06-11	Mid-Ebb	Cloudy	Small Wave	CS6	Surface	1	1	1	13:04	27.1	7.63	18	6.59	2.05	2.6
TMCLKL	HY/2012/08	2014-06-11	Mid-Ebb	Cloudy	Small Wave	CS6	Surface	1	1	2	13:04	27.1	7.64	18.1	6.56	2.08	2.1
TMCLKL	HY/2012/08	2014-06-11	Mid-Ebb	Cloudy	Small Wave	CS6	Middle	6.8	2	1	13:04	27.3	7.69	18.3	6.48	2.26	2.1
TMCLKL	HY/2012/08	2014-06-11	Mid-Ebb	Cloudy	Small Wave	CS6	Middle	6.8	2	2	13:04	27.2	7.72	18.4	6.45	2.21	2.1
TMCLKL	HY/2012/08	2014-06-11	Mid-Ebb	Cloudy	Small Wave	CS6	Bottom	12.5	3	1	13:04	27.4	7.75	18.5	6.34	2.35	2.6
TMCLKL	HY/2012/08	2014-06-11	Mid-Ebb	Cloudy	Small Wave	CS6	Bottom	12.5	3	2	13:04	27.4	7.76	18.4	6.37	2.38	2.5
TMCLKL	HY/2012/08	2014-06-11	Mid-Ebb	Cloudy	Small Wave	IS12	Surface	1	1	1	10:32	27.1	7.69	18.1	6.54	2.15	2.8
TMCLKL	HY/2012/08	2014-06-11	Mid-Ebb	Cloudy	Small Wave	IS12	Surface	1	1	2	10:32	27.1	7.73	18	6.57	2.18	3.7
TMCLKL	HY/2012/08	2014-06-11	Mid-Ebb	Cloudy	Small Wave	IS12	Middle	7.6	2	1	10:32	27.3	7.78	18.3	6.48	2.23	2.8
TMCLKL	HY/2012/08	2014-06-11	Mid-Ebb	Cloudy	Small Wave	IS12	Middle	7.6	2	2	10:32	27.3	7.79	18.2	6.49	2.26	3.5
TMCLKL	HY/2012/08	2014-06-11	Mid-Ebb	Cloudy	Small Wave	IS12	Bottom	14.1	3	1	10:32	27.3	7.79	18.5	6.35	2.31	2.3
TMCLKL	HY/2012/08	2014-06-11	Mid-Ebb	Cloudy	Small Wave	IS12	Bottom	14.1	3	2	10:32	27.4	7.8	18.5	6.34	2.32	2.9
TMCLKL	HY/2012/08	2014-06-11	Mid-Ebb	Cloudy	Small Wave	IS13	Surface	1	1	1	10:52	27.2	7.61	18.1	6.48	2.08	2.7
TMCLKL	HY/2012/08	2014-06-11	Mid-Ebb	Cloudy	Small Wave	IS13	Surface	1	1	2	10:52	27.1	7.6	18.1	6.45	2.05	2.3
TMCLKL	HY/2012/08	2014-06-11	Mid-Ebb	Cloudy	Small Wave	IS13	Middle	6.1	2	1	10:52	27.3	7.63	18.2	6.36	2.21	2.9
TMCLKL	HY/2012/08	2014-06-11	Mid-Ebb	Cloudy	Small Wave	IS13	Middle	6.1	2	2	10:52	27.3	7.64	18.2	6.34	2.25	3.3
TMCLKL	HY/2012/08	2014-06-11	Mid-Ebb	Cloudy	Small Wave	IS13	Bottom	11.1	3	1	10:52	27.4	7.7	18.4	6.28	2.32	3.4
TMCLKL	HY/2012/08	2014-06-11	Mid-Ebb	Cloudy	Small Wave	IS13	Bottom	11.1	3	2	10:52	27.4	7.68	18.5	6.27	2.31	2.8
TMCLKL	HY/2012/08	2014-06-11	Mid-Ebb	Cloudy	Small Wave	IS14	Surface	1	1	1	10:13	27	7.64	18.2	6.65	2.02	3.3
TMCLKL	HY/2012/08	2014-06-11	Mid-Ebb	Cloudy	Small Wave	IS14	Surface	1	1	2	10:13	27	7.66	18.2	6.63	2.03	2.6
TMCLKL	HY/2012/08	2014-06-11	Mid-Ebb	Cloudy	Small Wave	IS14	Middle	8.2	2	1	10:13	27.1	7.68	18.4	6.52	2.13	2.4
TMCLKL	HY/2012/08	2014-06-11	Mid-Ebb	Cloudy	Small Wave	IS14	Middle	8.2	2	2	10:13	27.2	7.68	18.4	6.51	2.1	2.8
TMCLKL	HY/2012/08	2014-06-11	Mid-Ebb	Cloudy	Small Wave	IS14	Bottom	15.4	3	1	10:13	27.3	7.72	18.5	6.43	2.25	4
TMCLKL	HY/2012/08	2014-06-11	Mid-Ebb	Cloudy	Small Wave	IS14	Bottom	15.4	3	2	10:13	27.3	7.71	18.6	6.46	2.28	3.9
TMCLKL	HY/2012/08	2014-06-11	Mid-Ebb	Cloudy	Small Wave	IS15	Surface	1	1	1	11:13	27	7.69	18.1	6.46	2.15	3
TMCLKL	HY/2012/08	2014-06-11	Mid-Ebb	Cloudy	Small Wave	IS15	Surface	1	1	2	11:13	27	7.68	18.2	6.43	2.12	2.1
TMCLKL	HY/2012/08	2014-06-11	Mid-Ebb	Cloudy	Small Wave	IS15	Middle	6.1	2	1	11:13	27.1	7.73	18.3	6.38	2.26	3.6
TMCLKL	HY/2012/08	2014-06-11	Mid-Ebb	Cloudy	Small Wave	IS15	Middle	6.1	2	2	11:13	27.2	7.72	18.3	6.35	2.25	3.1
TMCLKL	HY/2012/08	2014-06-11	Mid-Ebb	Cloudy	Small Wave	IS15	Bottom	11.2	3	1	11:13	27.4	7.79	18.5	6.22	2.34	2.9
TMCLKL	HY/2012/08	2014-06-11	Mid-Ebb	Cloudy	Small Wave	IS15	Bottom	11.2	3	2	11:13	27.4	7.78	18.6	6.23	2.31	2.8

Project	Works	Date	Tide	Weather	Sea Condition	Stat	Level	Water Depth	Lev_Cod	Replicate	Time	Temp(°C)	pH	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)
TMCLKL	HY/2012/08	2014-06-11	Mid-Ebb	Cloudy	Small Wave	SR8	Surface	1	1	1	12:12	27.1	7.65	17.9	6.39	2.14	2.5
TMCLKL	HY/2012/08	2014-06-11	Mid-Ebb	Cloudy	Small Wave	SR8	Surface	1	1	2	12:12	27.1	7.66	17.9	6.42	2.12	2.3
TMCLKL	HY/2012/08	2014-06-11	Mid-Ebb	Cloudy	Small Wave	SR8	Middle		2	1	12:12						
TMCLKL	HY/2012/08	2014-06-11	Mid-Ebb	Cloudy	Small Wave	SR8	Middle		2	2	12:12						
TMCLKL	HY/2012/08	2014-06-11	Mid-Ebb	Cloudy	Small Wave	SR8	Bottom	4.6	3	1	12:12	27.3	7.72	18.1	6.32	2.34	2.4
TMCLKL	HY/2012/08	2014-06-11	Mid-Ebb	Cloudy	Small Wave	SR8	Bottom	4.6	3	2	12:12	27.3	7.69	18.2	6.33	2.37	2.3
TMCLKL	HY/2012/08	2014-06-11	Mid-Ebb	Cloudy	Small Wave	SR9	Surface	1	1	1	11:33	27	7.62	18.1	6.36	2.19	3.1
TMCLKL	HY/2012/08	2014-06-11	Mid-Ebb	Cloudy	Small Wave	SR9	Surface	1	1	2	11:33	27.1	7.65	18	6.32	2.24	2.2
TMCLKL	HY/2012/08	2014-06-11	Mid-Ebb	Cloudy	Small Wave	SR9	Middle		2	1	11:33						
TMCLKL	HY/2012/08	2014-06-11	Mid-Ebb	Cloudy	Small Wave	SR9	Middle		2	2	11:33						
TMCLKL	HY/2012/08	2014-06-11	Mid-Ebb	Cloudy	Small Wave	SR9	Bottom	4.3	3	1	11:33	27.3	7.69	18.1	6.23	2.35	2.3
TMCLKL	HY/2012/08	2014-06-11	Mid-Ebb	Cloudy	Small Wave	SR9	Bottom	4.3	3	2	11:33	27.2	7.69	18.2	6.22	2.38	2.7
TMCLKL	HY/2012/08	2014-06-11	Mid-Ebb	Cloudy	Small Wave	SR10A	Surface	1	1	1	12:38	27.2	7.71	17.9	6.49	2.07	2
TMCLKL	HY/2012/08	2014-06-11	Mid-Ebb	Cloudy	Small Wave	SR10A	Surface	1	1	2	12:38	27.1	7.69	18.1	6.46	2.09	2.3
TMCLKL	HY/2012/08	2014-06-11	Mid-Ebb	Cloudy	Small Wave	SR10A	Middle	7.2	2	1	12:38	27.4	7.78	18.3	6.31	2.14	2.6
TMCLKL	HY/2012/08	2014-06-11	Mid-Ebb	Cloudy	Small Wave	SR10A	Middle	7.2	2	2	12:38	27.3	7.74	18.3	6.36	2.11	2.6
TMCLKL	HY/2012/08	2014-06-11	Mid-Ebb	Cloudy	Small Wave	SR10A	Bottom	13.4	3	1	12:38	27.6	7.82	18.5	6.28	2.25	3.4
TMCLKL	HY/2012/08	2014-06-11	Mid-Ebb	Cloudy	Small Wave	SR10A	Bottom	13.4	3	2	12:38	27.5	7.8	18.6	6.26	2.28	2.3
TMCLKL	HY/2012/08	2014-06-13	Mid-Flood	Fine	Small Wave	CS4	Surface	1	1	1	21:30	27.1	7.82	16.8	6.23	2.31	2
TMCLKL	HY/2012/08	2014-06-13	Mid-Flood	Fine	Small Wave	CS4	Surface	1	1	2	21:30	27.2	7.81	16.9	6.21	2.29	2.2
TMCLKL	HY/2012/08	2014-06-13	Mid-Flood	Fine	Small Wave	CS4	Middle	11.3	2	1	21:30	26.5	7.84	20.3	5.89	2.27	2.2
TMCLKL	HY/2012/08	2014-06-13	Mid-Flood	Fine	Small Wave	CS4	Middle	11.3	2	2	21:30	26.4	7.83	20.5	5.93	2.26	2
TMCLKL	HY/2012/08	2014-06-13	Mid-Flood	Fine	Small Wave	CS4	Bottom	21.6	3	1	21:30	26.2	7.86	21.2	5.82	2.29	2.8
TMCLKL	HY/2012/08	2014-06-13	Mid-Flood	Fine	Small Wave	CS4	Bottom	21.6	3	2	21:30	26.2	7.85	21.1	5.8	2.28	2.6
TMCLKL	HY/2012/08	2014-06-13	Mid-Flood	Fine	Small Wave	CS6	Surface	1	1	1	18:26	27.1	7.81	16.8	6.39	2.23	3
TMCLKL	HY/2012/08	2014-06-13	Mid-Flood	Fine	Small Wave	CS6	Surface	1	1	2	18:26	27.1	7.8	16.9	6.41	2.25	2.9
TMCLKL	HY/2012/08	2014-06-13	Mid-Flood	Fine	Small Wave	CS6	Middle	7.5	2	1	18:26	26.6	7.83	20.4	6.31	2.42	2.8
TMCLKL	HY/2012/08	2014-06-13	Mid-Flood	Fine	Small Wave	CS6	Middle	7.5	2	2	18:26	26.5	7.82	20.3	6.27	2.45	2.2
TMCLKL	HY/2012/08	2014-06-13	Mid-Flood	Fine	Small Wave	CS6	Bottom	14	3	1	18:26	26.4	7.83	21	6.25	2.39	2.6
TMCLKL	HY/2012/08	2014-06-13	Mid-Flood	Fine	Small Wave	CS6	Bottom	14	3	2	18:26	26.3	7.84	21.1	6.27	2.41	2.8
TMCLKL	HY/2012/08	2014-06-13	Mid-Flood	Fine	Small Wave	IS12	Surface	1	1	1	20:44	27.1	7.82	16.9	6.28	2.39	6
TMCLKL	HY/2012/08	2014-06-13	Mid-Flood	Fine	Small Wave	IS12	Surface	1	1	2	20:44	27.1	7.81	17	6.27	2.37	5.6
TMCLKL	HY/2012/08	2014-06-13	Mid-Flood	Fine	Small Wave	IS12	Middle	7.7	2	1	20:44	26.5	7.83	20.3	6.17	2.27	5.2
TMCLKL	HY/2012/08	2014-06-13	Mid-Flood	Fine	Small Wave	IS12	Middle	7.7	2	2	20:44	26.4	7.84	20.4	6.16	2.29	6.4
TMCLKL	HY/2012/08	2014-06-13	Mid-Flood	Fine	Small Wave	IS12	Bottom	14.4	3	1	20:44	26.2	7.86	21.1	6.09	2.21	5.4
TMCLKL	HY/2012/08	2014-06-13	Mid-Flood	Fine	Small Wave	IS12	Bottom	14.4	3	2	20:44	26.3	7.85	21	6.05	2.25	4.2
TMCLKL	HY/2012/08	2014-06-13	Mid-Flood	Fine	Small Wave	IS13	Surface	1	1	1	20:21	27.1	7.81	16.9	6.43	2.41	4.2
TMCLKL	HY/2012/08	2014-06-13	Mid-Flood	Fine	Small Wave	IS13	Surface	1	1	2	20:21	27	7.82	17	6.47	2.39	3.2
TMCLKL	HY/2012/08	2014-06-13	Mid-Flood	Fine	Small Wave	IS13	Middle	7.3	2	1	20:21	26.5	7.83	20.4	6.21	2.29	3.2
TMCLKL	HY/2012/08	2014-06-13	Mid-Flood	Fine	Small Wave	IS13	Middle	7.3	2	2	20:21	26.6	7.82	20.3	6.23	2.27	2.6
TMCLKL	HY/2012/08	2014-06-13	Mid-Flood	Fine	Small Wave	IS13	Bottom	13.6	3	1	20:21	26.3	7.85	21.1	6.16	2.35	3.2
TMCLKL	HY/2012/08	2014-06-13	Mid-Flood	Fine	Small Wave	IS13	Bottom	13.6	3	2	20:21	26.2	7.84	21	6.18	2.33	2.2
TMCLKL	HY/2012/08	2014-06-13	Mid-Flood	Fine	Small Wave	IS14	Surface	1	1	1	21:07	27.2	7.81	16.8	6.2	2.4	3.4
TMCLKL	HY/2012/08	2014-06-13	Mid-Flood	Fine	Small Wave	IS14	Surface	1	1	2	21:07	27.1	7.8	16.9	6.23	2.38	2.4
TMCLKL	HY/2012/08	2014-06-13	Mid-Flood	Fine	Small Wave	IS14	Middle	7.5	2	1	21:07	26.5	7.82	20.4	5.73	2.35	3.4
TMCLKL	HY/2012/08	2014-06-13	Mid-Flood	Fine	Small Wave	IS14	Middle	7.5	2	2	21:07	26.5	7.83	20.3	5.7	2.33	2.8
TMCLKL	HY/2012/08	2014-06-13	Mid-Flood	Fine	Small Wave	IS14	Bottom	14	3	1	21:07	26.3	7.84	21.1	5.54	2.23	2.6
TMCLKL	HY/2012/08	2014-06-13	Mid-Flood	Fine	Small Wave	IS14	Bottom	14	3	2	21:07	26.2	7.83	21	5.57	2.24	2.5
TMCLKL	HY/2012/08	2014-06-13	Mid-Flood	Fine	Small Wave	IS15	Surface	1	1	1	19:58	27	7.8	17	6.41	2.37	3.2
TMCLKL	HY/2012/08	2014-06-13	Mid-Flood	Fine	Small Wave	IS15	Surface	1	1	2	19:58	27	7.81	16.9	6.39	2.35	2.6
TMCLKL	HY/2012/08	2014-06-13	Mid-Flood	Fine	Small Wave	IS15	Middle	6.9	2	1	19:58	26.5	7.82	20.4	6.18	2.42	2.8
TMCLKL	HY/2012/08	2014-06-13	Mid-Flood	Fine	Small Wave	IS15	Middle	6.9	2	2	19:58	26.6	7.81	20.3	6.2	2.45	2.4
TMCLKL	HY/2012/08	2014-06-13	Mid-Flood	Fine	Small Wave	IS15	Bottom	12.8	3	1	19:58	26.3	7.84	21	6.03	2.49	3.4
TMCLKL	HY/2012/08	2014-06-13	Mid-Flood	Fine	Small Wave	IS15	Bottom	12.8	3	2	19:58	26.4	7.83	21.1	6.07	2.51	2
TMCLKL	HY/2012/08	2014-06-13	Mid-Flood	Fine	Small Wave	SR8	Surface	1	1	1	19:12	27.1	7.81	17	6.27	2.21	2.4
TMCLKL	HY/2012/08	2014-06-13	Mid-Flood	Fine	Small Wave	SR8	Surface	1	1	2	19:12	27.1	7.82	16.9	6.31	2.19	2.4
TMCLKL	HY/2012/08	2014-06-13	Mid-Flood	Fine	Small Wave	SR8	Middle		2	1	19:12						
TMCLKL	HY/2012/08	2014-06-13	Mid-Flood	Fine	Small Wave	SR8	Middle		2	2	19:12						

Project	Works	Date	Tide	Weather	Sea Condition	Stat	Level	Water Depth	Lev_Cod	Replicate	Time	Temp(°C)	pH	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)
TMCLKL	HY/2012/08	2014-06-13	Mid-Flood	Fine	Small Wave	SR8	Bottom	4.5	3	1	19:12	26.7	7.82	20.3	6.13	2.37	2.6
TMCLKL	HY/2012/08	2014-06-13	Mid-Flood	Fine	Small Wave	SR8	Bottom	4.5	3	2	19:12	26.6	7.84	20.3	6.15	2.35	2.6
TMCLKL	HY/2012/08	2014-06-13	Mid-Flood	Fine	Small Wave	SR9	Surface	1	1	1	19:35	27	7.81	17	6.37	2.27	3.2
TMCLKL	HY/2012/08	2014-06-13	Mid-Flood	Fine	Small Wave	SR9	Surface	1	1	2	19:35	27.1	7.82	17	6.35	2.25	3.2
TMCLKL	HY/2012/08	2014-06-13	Mid-Flood	Fine	Small Wave	SR9	Middle		2	1	19:35						
TMCLKL	HY/2012/08	2014-06-13	Mid-Flood	Fine	Small Wave	SR9	Middle		2	2	19:35						
TMCLKL	HY/2012/08	2014-06-13	Mid-Flood	Fine	Small Wave	SR9	Bottom	4.5	3	1	19:35	26.8	7.84	20.4	6.21	2.47	2.8
TMCLKL	HY/2012/08	2014-06-13	Mid-Flood	Fine	Small Wave	SR9	Bottom	4.5	3	2	19:35	26.7	7.83	20.3	6.25	2.45	2.2
TMCLKL	HY/2012/08	2014-06-13	Mid-Flood	Fine	Small Wave	SR10A	Surface	1	1	1	18:49	27	7.81	16.9	6.43	2.39	2.1
TMCLKL	HY/2012/08	2014-06-13	Mid-Flood	Fine	Small Wave	SR10A	Surface	1	1	2	18:49	27.1	7.8	17	6.45	2.37	2.6
TMCLKL	HY/2012/08	2014-06-13	Mid-Flood	Fine	Small Wave	SR10A	Middle	7.7	2	1	18:49	26.6	7.82	20.3	6.21	2.43	2.7
TMCLKL	HY/2012/08	2014-06-13	Mid-Flood	Fine	Small Wave	SR10A	Middle	7.7	2	2	18:49	26.6	7.83	20.2	6.23	2.45	2.6
TMCLKL	HY/2012/08	2014-06-13	Mid-Flood	Fine	Small Wave	SR10A	Bottom	14.4	3	1	18:49	26.3	7.84	21.1	6.15	2.49	3
TMCLKL	HY/2012/08	2014-06-13	Mid-Flood	Fine	Small Wave	SR10A	Bottom	14.4	3	2	18:49	26.4	7.83	21.1	6.19	2.47	3.4
TMCLKL	HY/2012/08	2014-06-13	Mid-Ebb	Fine	Small Wave	CS4	Surface	1	1	1	11:20	27.1	7.79	16.9	6.2	2.41	3.2
TMCLKL	HY/2012/08	2014-06-13	Mid-Ebb	Fine	Small Wave	CS4	Surface	1	1	2	11:20	27.1	7.8	16.9	6.23	2.45	3.5
TMCLKL	HY/2012/08	2014-06-13	Mid-Ebb	Fine	Small Wave	CS4	Middle	11.2	2	1	11:20	26.4	7.8	20.4	5.71	2.37	3.9
TMCLKL	HY/2012/08	2014-06-13	Mid-Ebb	Fine	Small Wave	CS4	Middle	11.2	2	2	11:20	26.3	7.8	20.4	5.68	2.34	4.2
TMCLKL	HY/2012/08	2014-06-13	Mid-Ebb	Fine	Small Wave	CS4	Bottom	21.4	3	1	11:20	26.2	7.82	21.2	5.56	2.4	3.2
TMCLKL	HY/2012/08	2014-06-13	Mid-Ebb	Fine	Small Wave	CS4	Bottom	21.4	3	2	11:20	26.2	7.82	21.2	5.53	2.44	4.4
TMCLKL	HY/2012/08	2014-06-13	Mid-Ebb	Fine	Small Wave	CS6	Surface	1	1	1	13:44	27.3	7.83	16.9	6.08	2.3	4.5
TMCLKL	HY/2012/08	2014-06-13	Mid-Ebb	Fine	Small Wave	CS6	Surface	1	1	2	13:44	27.3	7.83	16.9	6.04	2.34	4.2
TMCLKL	HY/2012/08	2014-06-13	Mid-Ebb	Fine	Small Wave	CS6	Middle	7.4	2	1	13:44	26.5	7.85	20.4	5.79	2.39	4.8
TMCLKL	HY/2012/08	2014-06-13	Mid-Ebb	Fine	Small Wave	CS6	Middle	7.4	2	2	13:44	26.5	7.84	20.4	5.75	2.31	3.7
TMCLKL	HY/2012/08	2014-06-13	Mid-Ebb	Fine	Small Wave	CS6	Bottom	13.8	3	1	13:44	26.3	7.84	21.3	5.63	2.48	3.4
TMCLKL	HY/2012/08	2014-06-13	Mid-Ebb	Fine	Small Wave	CS6	Bottom	13.8	3	2	13:44	26.2	7.83	21.4	5.67	2.42	4.1
TMCLKL	HY/2012/08	2014-06-13	Mid-Ebb	Fine	Small Wave	IS12	Surface	1	1	1	12:02	27.1	7.81	16.9	6.07	2.52	3
TMCLKL	HY/2012/08	2014-06-13	Mid-Ebb	Fine	Small Wave	IS12	Surface	1	1	2	12:02	27.1	7.82	16.8	6.04	2.56	3.4
TMCLKL	HY/2012/08	2014-06-13	Mid-Ebb	Fine	Small Wave	IS12	Middle	7.6	2	1	12:02	26.3	7.82	20.4	5.78	2.6	3.2
TMCLKL	HY/2012/08	2014-06-13	Mid-Ebb	Fine	Small Wave	IS12	Middle	7.6	2	2	12:02	26.3	7.82	20.4	5.75	2.64	2.1
TMCLKL	HY/2012/08	2014-06-13	Mid-Ebb	Fine	Small Wave	IS12	Bottom	14.2	3	1	12:02	26.3	7.82	21	5.62	2.39	2.3
TMCLKL	HY/2012/08	2014-06-13	Mid-Ebb	Fine	Small Wave	IS12	Bottom	14.2	3	2	12:02	26.2	7.81	21	5.65	2.44	2
TMCLKL	HY/2012/08	2014-06-13	Mid-Ebb	Fine	Small Wave	IS13	Surface	1	1	1	12:22	27.1	7.82	16.8	6.24	2.37	2.7
TMCLKL	HY/2012/08	2014-06-13	Mid-Ebb	Fine	Small Wave	IS13	Surface	1	1	2	12:22	27.1	7.83	16.7	6.2	2.39	2.9
TMCLKL	HY/2012/08	2014-06-13	Mid-Ebb	Fine	Small Wave	IS13	Middle	7.2	2	1	12:22	26.4	7.81	20.5	5.67	2.41	2.4
TMCLKL	HY/2012/08	2014-06-13	Mid-Ebb	Fine	Small Wave	IS13	Middle	7.2	2	2	12:22	26.4	7.82	20.4	5.69	2.45	2.8
TMCLKL	HY/2012/08	2014-06-13	Mid-Ebb	Fine	Small Wave	IS13	Bottom	13.4	3	1	12:22	26.3	7.83	21.3	5.58	2.45	4.2
TMCLKL	HY/2012/08	2014-06-13	Mid-Ebb	Fine	Small Wave	IS13	Bottom	13.4	3	2	12:22	26.3	7.82	21.3	5.55	2.48	2.8
TMCLKL	HY/2012/08	2014-06-13	Mid-Ebb	Fine	Small Wave	IS14	Surface	1	1	1	11:42	27.1	7.8	16.9	6.12	2.43	3.4
TMCLKL	HY/2012/08	2014-06-13	Mid-Ebb	Fine	Small Wave	IS14	Surface	1	1	2	11:42	27.1	7.81	16.8	6.07	2.49	2.8
TMCLKL	HY/2012/08	2014-06-13	Mid-Ebb	Fine	Small Wave	IS14	Middle	7.4	2	1	11:42	26.4	7.81	20.4	5.64	2.52	2.8
TMCLKL	HY/2012/08	2014-06-13	Mid-Ebb	Fine	Small Wave	IS14	Middle	7.4	2	2	11:42	26.4	7.81	20.5	5.6	2.56	2.1
TMCLKL	HY/2012/08	2014-06-13	Mid-Ebb	Fine	Small Wave	IS14	Bottom	13.8	3	1	11:42	26.2	7.83	21.1	5.49	2.44	3.4
TMCLKL	HY/2012/08	2014-06-13	Mid-Ebb	Fine	Small Wave	IS14	Bottom	13.8	3	2	11:42	26.2	7.83	21.1	5.45	2.4	3.2
TMCLKL	HY/2012/08	2014-06-13	Mid-Ebb	Fine	Small Wave	IS15	Surface	1	1	1	12:42	27.2	7.83	16.9	6.18	2.44	3.2
TMCLKL	HY/2012/08	2014-06-13	Mid-Ebb	Fine	Small Wave	IS15	Surface	1	1	2	12:42	27.1	7.83	16.9	6.14	2.4	2.8
TMCLKL	HY/2012/08	2014-06-13	Mid-Ebb	Fine	Small Wave	IS15	Middle	6.9	2	1	12:42	26.3	7.83	20.5	5.96	2.32	4
TMCLKL	HY/2012/08	2014-06-13	Mid-Ebb	Fine	Small Wave	IS15	Middle	6.9	2	2	12:42	26.3	7.83	20.4	5.93	2.35	4
TMCLKL	HY/2012/08	2014-06-13	Mid-Ebb	Fine	Small Wave	IS15	Bottom	12.8	3	1	12:42	26.2	7.84	21.3	5.8	2.27	4.2
TMCLKL	HY/2012/08	2014-06-13	Mid-Ebb	Fine	Small Wave	IS15	Bottom	12.8	3	2	12:42	26.3	7.83	21.3	5.84	2.2	3.8
TMCLKL	HY/2012/08	2014-06-13	Mid-Ebb	Fine	Small Wave	SR8	Surface	1	1	1	13:25	27.2	7.84	16.9	6.14	2.41	3.6
TMCLKL	HY/2012/08	2014-06-13	Mid-Ebb	Fine	Small Wave	SR8	Surface	1	1	2	13:25	27.1	7.83	16.8	6.17	2.45	3.7
TMCLKL	HY/2012/08	2014-06-13	Mid-Ebb	Fine	Small Wave	SR8	Middle		2	1	13:25						
TMCLKL	HY/2012/08	2014-06-13	Mid-Ebb	Fine	Small Wave	SR8	Middle		2	2	13:25						
TMCLKL	HY/2012/08	2014-06-13	Mid-Ebb	Fine	Small Wave	SR8	Bottom	4.4	3	1	13:25	26.4	7.86	21.1	5.9	2.37	5.2
TMCLKL	HY/2012/08	2014-06-13	Mid-Ebb	Fine	Small Wave	SR8	Bottom	4.4	3	2	13:25	26.3	7.86	21.1	5.94	2.34	5.1
TMCLKL	HY/2012/08	2014-06-13	Mid-Ebb	Fine	Small Wave	SR9	Surface	1	1	1	13:05	27.2	7.82	16.9	6.2	2.12	5
TMCLKL	HY/2012/08	2014-06-13	Mid-Ebb	Fine	Small Wave	SR9	Surface	1	1	2	13:05	27.1	7.82	16.9	6.24	2.17	3.6

Project	Works	Date	Tide	Weather	Sea Condition	Stat	Level	Water Depth	Lev_Cod	Replicate	Time	Temp(°C)	pH	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)
TMCLKL	HY/2012/08	2014-06-13	Mid-Ebb	Fine	Small Wave	SR9	Middle		2	1	13:05						
TMCLKL	HY/2012/08	2014-06-13	Mid-Ebb	Fine	Small Wave	SR9	Middle		2	2	13:05						
TMCLKL	HY/2012/08	2014-06-13	Mid-Ebb	Fine	Small Wave	SR9	Bottom	4.2	3	1	13:05	26.4	7.81	20.9	5.87	2.5	4.9
TMCLKL	HY/2012/08	2014-06-13	Mid-Ebb	Fine	Small Wave	SR9	Bottom	4.2	3	2	13:05	26.4	7.8	20.9	5.84	2.54	3.3
TMCLKL	HY/2012/08	2014-06-13	Mid-Ebb	Fine	Small Wave	SR10A	Surface	1	1	1	14:25	27.3	7.83	16.9	6.17	2.26	3
TMCLKL	HY/2012/08	2014-06-13	Mid-Ebb	Fine	Small Wave	SR10A	Surface	1	1	2	14:25	27.2	7.83	16.9	6.14	2.22	3.8
TMCLKL	HY/2012/08	2014-06-13	Mid-Ebb	Fine	Small Wave	SR10A	Middle	7.6	2	1	14:25	26.4	7.84	20.4	5.82	2.12	3.9
TMCLKL	HY/2012/08	2014-06-13	Mid-Ebb	Fine	Small Wave	SR10A	Middle	7.6	2	2	14:25	26.3	7.83	20.3	5.85	2.16	4
TMCLKL	HY/2012/08	2014-06-13	Mid-Ebb	Fine	Small Wave	SR10A	Bottom	14.2	3	1	14:25	26.3	7.85	21.4	5.77	2.6	5.8
TMCLKL	HY/2012/08	2014-06-13	Mid-Ebb	Fine	Small Wave	SR10A	Bottom	14.2	3	2	14:25	26.2	7.84	21.4	5.75	2.65	6.1
TMCLKL	HY/2012/08	2014-06-16	Mid-Flood	Cloudy	Small Wave	CS4	Surface	1	1	1	09:56	27.1	7.76	17.1	6.27	2.36	5.3
TMCLKL	HY/2012/08	2014-06-16	Mid-Flood	Cloudy	Small Wave	CS4	Surface	1	1	2	09:56	27	7.75	17	6.3	2.34	5.3
TMCLKL	HY/2012/08	2014-06-16	Mid-Flood	Cloudy	Small Wave	CS4	Middle	11.2	2	1	09:56	26.7	7.82	20.2	6.02	2.27	6
TMCLKL	HY/2012/08	2014-06-16	Mid-Flood	Cloudy	Small Wave	CS4	Middle	11.2	2	2	09:56	26.6	7.81	20.1	6.04	2.25	6.5
TMCLKL	HY/2012/08	2014-06-16	Mid-Flood	Cloudy	Small Wave	CS4	Bottom	21.4	3	1	09:56	26.5	7.67	21	5.81	2.22	5.9
TMCLKL	HY/2012/08	2014-06-16	Mid-Flood	Cloudy	Small Wave	CS4	Bottom	21.4	3	2	09:56	26.5	7.66	21	5.8	2.24	6.5
TMCLKL	HY/2012/08	2014-06-16	Mid-Flood	Cloudy	Small Wave	CS6	Surface	1	1	1	07:40	27	7.7	17.1	6.35	2.38	6.3
TMCLKL	HY/2012/08	2014-06-16	Mid-Flood	Cloudy	Small Wave	CS6	Surface	1	1	2	07:40	26.9	7.71	17	6.32	2.4	5.9
TMCLKL	HY/2012/08	2014-06-16	Mid-Flood	Cloudy	Small Wave	CS6	Middle	7.5	2	1	07:40	26.7	7.81	20.2	6.24	2.6	5.6
TMCLKL	HY/2012/08	2014-06-16	Mid-Flood	Cloudy	Small Wave	CS6	Middle	7.5	2	2	07:40	26.7	7.79	20.3	6.26	2.58	5.3
TMCLKL	HY/2012/08	2014-06-16	Mid-Flood	Cloudy	Small Wave	CS6	Bottom	14	3	1	07:40	26.5	7.66	21.1	6.19	2.76	5.6
TMCLKL	HY/2012/08	2014-06-16	Mid-Flood	Cloudy	Small Wave	CS6	Bottom	14	3	2	07:40	26.6	7.67	21	6.17	2.72	6.6
TMCLKL	HY/2012/08	2014-06-16	Mid-Flood	Cloudy	Small Wave	IS12	Surface	1	1	1	09:22	27.1	7.74	17.2	6.32	2.33	3.8
TMCLKL	HY/2012/08	2014-06-16	Mid-Flood	Cloudy	Small Wave	IS12	Surface	1	1	2	09:22	27	7.72	17.1	6.34	2.35	3.9
TMCLKL	HY/2012/08	2014-06-16	Mid-Flood	Cloudy	Small Wave	IS12	Middle	7.7	2	1	09:22	26.8	7.85	20.2	6.19	2.25	5.4
TMCLKL	HY/2012/08	2014-06-16	Mid-Flood	Cloudy	Small Wave	IS12	Middle	7.7	2	2	09:22	26.7	7.86	20.3	6.21	2.27	5.3
TMCLKL	HY/2012/08	2014-06-16	Mid-Flood	Cloudy	Small Wave	IS12	Bottom	14.4	3	1	09:22	26.5	7.76	21.1	6.1	2.22	5
TMCLKL	HY/2012/08	2014-06-16	Mid-Flood	Cloudy	Small Wave	IS12	Bottom	14.4	3	2	09:22	26.5	7.77	21	6.12	2.24	5.5
TMCLKL	HY/2012/08	2014-06-16	Mid-Flood	Cloudy	Small Wave	IS13	Surface	1	1	1	09:05	27.1	7.73	17.2	6.49	2.54	5.1
TMCLKL	HY/2012/08	2014-06-16	Mid-Flood	Cloudy	Small Wave	IS13	Surface	1	1	2	09:05	27	7.74	17.1	6.46	2.56	5
TMCLKL	HY/2012/08	2014-06-16	Mid-Flood	Cloudy	Small Wave	IS13	Middle	7.3	2	1	09:05	26.7	7.82	20.4	6.25	2.27	4.8
TMCLKL	HY/2012/08	2014-06-16	Mid-Flood	Cloudy	Small Wave	IS13	Middle	7.3	2	2	09:05	26.8	7.83	20.3	6.27	2.29	5.2
TMCLKL	HY/2012/08	2014-06-16	Mid-Flood	Cloudy	Small Wave	IS13	Bottom	13.6	3	1	09:05	26.7	7.63	21	6.19	2.36	6.3
TMCLKL	HY/2012/08	2014-06-16	Mid-Flood	Cloudy	Small Wave	IS13	Bottom	13.6	3	2	09:05	26.7	7.67	20.9	6.17	2.39	5.8
TMCLKL	HY/2012/08	2014-06-16	Mid-Flood	Cloudy	Small Wave	IS14	Surface	1	1	1	09:39	27.1	7.82	17.1	6.25	2.46	5.4
TMCLKL	HY/2012/08	2014-06-16	Mid-Flood	Cloudy	Small Wave	IS14	Surface	1	1	2	09:39	27.1	7.81	17	6.23	2.48	4.6
TMCLKL	HY/2012/08	2014-06-16	Mid-Flood	Cloudy	Small Wave	IS14	Middle	7.5	2	1	09:39	26.6	7.7	20.1	5.72	2.35	5.4
TMCLKL	HY/2012/08	2014-06-16	Mid-Flood	Cloudy	Small Wave	IS14	Middle	7.5	2	2	09:39	26.7	7.71	20.2	5.75	2.37	4.8
TMCLKL	HY/2012/08	2014-06-16	Mid-Flood	Cloudy	Small Wave	IS14	Bottom	13.9	3	1	09:39	26.4	7.74	21	5.5	2.23	4.8
TMCLKL	HY/2012/08	2014-06-16	Mid-Flood	Cloudy	Small Wave	IS14	Bottom	13.9	3	2	09:39	26.5	7.72	20.9	5.53	2.25	5.1
TMCLKL	HY/2012/08	2014-06-16	Mid-Flood	Cloudy	Small Wave	IS15	Surface	1	1	1	08:48	27.1	7.83	17.1	6.45	2.46	5.5
TMCLKL	HY/2012/08	2014-06-16	Mid-Flood	Cloudy	Small Wave	IS15	Surface	1	1	2	08:48	27.1	7.84	17.1	6.48	2.44	5.5
TMCLKL	HY/2012/08	2014-06-16	Mid-Flood	Cloudy	Small Wave	IS15	Middle	6.8	2	1	08:48	26.8	7.92	20.3	6.22	2.61	5.7
TMCLKL	HY/2012/08	2014-06-16	Mid-Flood	Cloudy	Small Wave	IS15	Middle	6.8	2	2	08:48	26.7	7.93	20.2	6.23	2.63	5.4
TMCLKL	HY/2012/08	2014-06-16	Mid-Flood	Cloudy	Small Wave	IS15	Bottom	12.6	3	1	08:48	26.5	7.78	21.1	6.02	2.75	6.6
TMCLKL	HY/2012/08	2014-06-16	Mid-Flood	Cloudy	Small Wave	IS15	Bottom	12.6	3	2	08:48	26.6	7.77	21	6.04	2.77	6.4
TMCLKL	HY/2012/08	2014-06-16	Mid-Flood	Cloudy	Small Wave	SR8	Surface	1	1	1	08:14	27	7.81	17	6.27	2.19	5.3
TMCLKL	HY/2012/08	2014-06-16	Mid-Flood	Cloudy	Small Wave	SR8	Surface	1	1	2	08:14	27.1	7.82	17	6.28	2.2	5.2
TMCLKL	HY/2012/08	2014-06-16	Mid-Flood	Cloudy	Small Wave	SR8	Middle		2	1	08:14						
TMCLKL	HY/2012/08	2014-06-16	Mid-Flood	Cloudy	Small Wave	SR8	Middle		2	2	08:14						
TMCLKL	HY/2012/08	2014-06-16	Mid-Flood	Cloudy	Small Wave	SR8	Bottom	4.4	3	1	08:14	26.8	7.65	20.2	6.15	2.07	6.2
TMCLKL	HY/2012/08	2014-06-16	Mid-Flood	Cloudy	Small Wave	SR8	Bottom	4.4	3	2	08:14	26.7	7.64	20.2	6.17	2.18	7.1
TMCLKL	HY/2012/08	2014-06-16	Mid-Flood	Cloudy	Small Wave	SR9	Surface	1	1	1	08:31	27.1	7.74	17.2	6.37	2.34	4.2
TMCLKL	HY/2012/08	2014-06-16	Mid-Flood	Cloudy	Small Wave	SR9	Surface	1	1	2	08:31	27	7.75	17.1	6.39	2.36	4.3
TMCLKL	HY/2012/08	2014-06-16	Mid-Flood	Cloudy	Small Wave	SR9	Middle		2	1	08:31						
TMCLKL	HY/2012/08	2014-06-16	Mid-Flood	Cloudy	Small Wave	SR9	Middle		2	2	08:31						
TMCLKL	HY/2012/08	2014-06-16	Mid-Flood	Cloudy	Small Wave	SR9	Bottom	4.5	3	1	08:31	26.8	7.81	20.1	6.25	2.6	7
TMCLKL	HY/2012/08	2014-06-16	Mid-Flood	Cloudy	Small Wave	SR9	Bottom	4.5	3	2	08:31	26.7	7.79	20.2	6.23	2.58	6.9

Project	Works	Date	Tide	Weather	Sea Condition	Stat	Level	Water Depth	Lev_Cod	Replicate	Time	Temp(°C)	pH	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)
TMCLKL	HY/2012/08	2014-06-16	Mid-Flood	Cloudy	Small Wave	SR10A	Surface	1	1	1	07:57	27.1	7.74	17.1	6.45	2.3	4.1
TMCLKL	HY/2012/08	2014-06-16	Mid-Flood	Cloudy	Small Wave	SR10A	Surface	1	1	2	07:57	27.1	7.75	17	6.46	2.32	4.3
TMCLKL	HY/2012/08	2014-06-16	Mid-Flood	Cloudy	Small Wave	SR10A	Middle	7.7	2	1	07:57	26.8	7.78	20.3	6.22	2.65	4
TMCLKL	HY/2012/08	2014-06-16	Mid-Flood	Cloudy	Small Wave	SR10A	Middle	7.7	2	2	07:57	26.7	7.79	20.3	6.2	2.67	3.9
TMCLKL	HY/2012/08	2014-06-16	Mid-Flood	Cloudy	Small Wave	SR10A	Bottom	14.3	3	1	07:57	26.5	7.82	20.9	6.1	2.9	4.4
TMCLKL	HY/2012/08	2014-06-16	Mid-Flood	Cloudy	Small Wave	SR10A	Bottom	14.3	3	2	07:57	26.5	7.81	21	6.12	2.88	4.5
TMCLKL	HY/2012/08	2014-06-16	Mid-Ebb	Cloudy	Small Wave	CS4	Surface	1	1	1	13:40	27.1	7.77	17.1	6.2	2.44	4.1
TMCLKL	HY/2012/08	2014-06-16	Mid-Ebb	Cloudy	Small Wave	CS4	Surface	1	1	2	13:40	27	7.75	17.1	6.22	2.42	3.7
TMCLKL	HY/2012/08	2014-06-16	Mid-Ebb	Cloudy	Small Wave	CS4	Middle	11.2	2	1	13:40	26.8	7.83	20.3	5.94	2.35	3.7
TMCLKL	HY/2012/08	2014-06-16	Mid-Ebb	Cloudy	Small Wave	CS4	Middle	11.2	2	2	13:40	26.7	7.81	20.4	5.96	2.33	4.1
TMCLKL	HY/2012/08	2014-06-16	Mid-Ebb	Cloudy	Small Wave	CS4	Bottom	21.3	3	1	13:40	26.5	7.66	21	5.73	2.3	4.2
TMCLKL	HY/2012/08	2014-06-16	Mid-Ebb	Cloudy	Small Wave	CS4	Bottom	21.3	3	2	13:40	26.6	7.68	21.1	5.71	2.32	4.2
TMCLKL	HY/2012/08	2014-06-16	Mid-Ebb	Cloudy	Small Wave	CS6	Surface	1	1	1	16:52	26.9	7.69	17	6.27	2.46	5.1
TMCLKL	HY/2012/08	2014-06-16	Mid-Ebb	Cloudy	Small Wave	CS6	Surface	1	1	2	16:52	27	7.71	17.1	6.29	2.49	4.6
TMCLKL	HY/2012/08	2014-06-16	Mid-Ebb	Cloudy	Small Wave	CS6	Middle	7.4	2	1	16:52	26.7	7.82	20.3	6.17	2.68	4.7
TMCLKL	HY/2012/08	2014-06-16	Mid-Ebb	Cloudy	Small Wave	CS6	Middle	7.4	2	2	16:52	26.6	7.8	20.3	6.19	2.66	5.3
TMCLKL	HY/2012/08	2014-06-16	Mid-Ebb	Cloudy	Small Wave	CS6	Bottom	13.7	3	1	16:52	26.5	7.65	21	6.11	2.84	5
TMCLKL	HY/2012/08	2014-06-16	Mid-Ebb	Cloudy	Small Wave	CS6	Bottom	13.7	3	2	16:52	26.5	7.67	21.1	6.09	2.8	4.8
TMCLKL	HY/2012/08	2014-06-16	Mid-Ebb	Cloudy	Small Wave	IS12	Surface	1	1	1	14:22	27	7.73	17.1	6.24	2.41	2.2
TMCLKL	HY/2012/08	2014-06-16	Mid-Ebb	Cloudy	Small Wave	IS12	Surface	1	1	2	14:22	27.1	7.71	17.2	6.26	2.43	2.1
TMCLKL	HY/2012/08	2014-06-16	Mid-Ebb	Cloudy	Small Wave	IS12	Middle	7.6	2	1	14:22	26.7	7.86	20.3	6.11	2.33	2
TMCLKL	HY/2012/08	2014-06-16	Mid-Ebb	Cloudy	Small Wave	IS12	Middle	7.6	2	2	14:22	26.8	7.88	20.2	6.13	2.35	2
TMCLKL	HY/2012/08	2014-06-16	Mid-Ebb	Cloudy	Small Wave	IS12	Bottom	14.2	3	1	14:22	26.5	7.75	20.9	6.03	2.29	2.7
TMCLKL	HY/2012/08	2014-06-16	Mid-Ebb	Cloudy	Small Wave	IS12	Bottom	14.2	3	2	14:22	26.6	7.77	21	6.05	2.31	2.9
TMCLKL	HY/2012/08	2014-06-16	Mid-Ebb	Cloudy	Small Wave	IS13	Surface	1	1	1	14:44	27.2	7.72	17.1	6.41	2.62	0.5
TMCLKL	HY/2012/08	2014-06-16	Mid-Ebb	Cloudy	Small Wave	IS13	Surface	1	1	2	14:44	27.1	7.74	17.2	6.39	2.64	0.5
TMCLKL	HY/2012/08	2014-06-16	Mid-Ebb	Cloudy	Small Wave	IS13	Middle	7.2	2	1	14:44	26.8	7.83	20.3	6.17	2.35	2.3
TMCLKL	HY/2012/08	2014-06-16	Mid-Ebb	Cloudy	Small Wave	IS13	Middle	7.2	2	2	14:44	26.8	7.85	20.4	6.19	2.38	3
TMCLKL	HY/2012/08	2014-06-16	Mid-Ebb	Cloudy	Small Wave	IS13	Bottom	13.4	3	1	14:44	26.7	7.61	20.9	6.11	2.44	3.9
TMCLKL	HY/2012/08	2014-06-16	Mid-Ebb	Cloudy	Small Wave	IS13	Bottom	13.4	3	2	14:44	26.6	7.63	21	6.09	2.46	4.1
TMCLKL	HY/2012/08	2014-06-16	Mid-Ebb	Cloudy	Small Wave	IS14	Surface	1	1	1	14:01	27	7.81	17	6.17	2.54	3.2
TMCLKL	HY/2012/08	2014-06-16	Mid-Ebb	Cloudy	Small Wave	IS14	Surface	1	1	2	14:01	27	7.8	17.1	6.19	2.56	3.9
TMCLKL	HY/2012/08	2014-06-16	Mid-Ebb	Cloudy	Small Wave	IS14	Middle	7.4	2	1	14:01	26.7	7.68	20.2	5.64	2.43	4.4
TMCLKL	HY/2012/08	2014-06-16	Mid-Ebb	Cloudy	Small Wave	IS14	Middle	7.4	2	2	14:01	26.6	7.7	20.2	5.66	2.45	4.4
TMCLKL	HY/2012/08	2014-06-16	Mid-Ebb	Cloudy	Small Wave	IS14	Bottom	13.7	3	1	14:01	26.5	7.73	21	5.43	2.3	4.8
TMCLKL	HY/2012/08	2014-06-16	Mid-Ebb	Cloudy	Small Wave	IS14	Bottom	13.7	3	2	14:01	26.4	7.71	20.9	5.45	2.32	4.9
TMCLKL	HY/2012/08	2014-06-16	Mid-Ebb	Cloudy	Small Wave	IS15	Surface	1	1	1	15:05	27	7.82	17	6.37	2.54	4.1
TMCLKL	HY/2012/08	2014-06-16	Mid-Ebb	Cloudy	Small Wave	IS15	Surface	1	1	2	15:05	27.1	7.84	17.1	6.39	2.52	4
TMCLKL	HY/2012/08	2014-06-16	Mid-Ebb	Cloudy	Small Wave	IS15	Middle	6.8	2	1	15:05	26.7	7.91	20.2	6.13	2.68	3.9
TMCLKL	HY/2012/08	2014-06-16	Mid-Ebb	Cloudy	Small Wave	IS15	Middle	6.8	2	2	15:05	26.8	7.93	20.3	6.15	2.7	4.1
TMCLKL	HY/2012/08	2014-06-16	Mid-Ebb	Cloudy	Small Wave	IS15	Bottom	12.5	3	1	15:05	26.6	7.77	21	5.94	2.83	4.1
TMCLKL	HY/2012/08	2014-06-16	Mid-Ebb	Cloudy	Small Wave	IS15	Bottom	12.5	3	2	15:05	26.5	7.75	21.1	5.96	2.85	3.9
TMCLKL	HY/2012/08	2014-06-16	Mid-Ebb	Cloudy	Small Wave	SR8	Surface	1	1	1	15:48	27	7.82	17	6.19	2.29	3.8
TMCLKL	HY/2012/08	2014-06-16	Mid-Ebb	Cloudy	Small Wave	SR8	Surface	1	1	2	15:48	27	7.8	17.1	6.21	2.31	3.7
TMCLKL	HY/2012/08	2014-06-16	Mid-Ebb	Cloudy	Small Wave	SR8	Middle		2	1	15:48						
TMCLKL	HY/2012/08	2014-06-16	Mid-Ebb	Cloudy	Small Wave	SR8	Middle		2	2	15:48						
TMCLKL	HY/2012/08	2014-06-16	Mid-Ebb	Cloudy	Small Wave	SR8	Bottom	4.3	3	1	15:48	26.7	7.66	19.9	6.07	2.26	4.7
TMCLKL	HY/2012/08	2014-06-16	Mid-Ebb	Cloudy	Small Wave	SR8	Bottom	4.3	3	2	15:48	26.6	7.68	20	6.05	2.28	4.4
TMCLKL	HY/2012/08	2014-06-16	Mid-Ebb	Cloudy	Small Wave	SR9	Surface	1	1	1	15:27	27.1	7.73	17.1	6.29	2.43	4.6
TMCLKL	HY/2012/08	2014-06-16	Mid-Ebb	Cloudy	Small Wave	SR9	Surface	1	1	2	15:27	27.1	7.75	17.1	6.31	2.45	4.3
TMCLKL	HY/2012/08	2014-06-16	Mid-Ebb	Cloudy	Small Wave	SR9	Middle		2	1	15:27						
TMCLKL	HY/2012/08	2014-06-16	Mid-Ebb	Cloudy	Small Wave	SR9	Middle		2	2	15:27						
TMCLKL	HY/2012/08	2014-06-16	Mid-Ebb	Cloudy	Small Wave	SR9	Bottom	4.3	3	1	15:27	26.7	7.82	20	6.17	2.68	5.3
TMCLKL	HY/2012/08	2014-06-16	Mid-Ebb	Cloudy	Small Wave	SR9	Bottom	4.3	3	2	15:27	26.8	7.8	20.1	6.15	2.66	5.3
TMCLKL	HY/2012/08	2014-06-16	Mid-Ebb	Cloudy	Small Wave	SR10A	Surface	1	1	1	16:25	27.1	7.73	17	6.37	2.39	5
TMCLKL	HY/2012/08	2014-06-16	Mid-Ebb	Cloudy	Small Wave	SR10A	Surface	1	1	2	16:25	27	7.75	17	6.39	2.41	5.3
TMCLKL	HY/2012/08	2014-06-16	Mid-Ebb	Cloudy	Small Wave	SR10A	Middle	7.6	2	1	16:25	26.7	7.77	20.2	6.14	2.73	6.7
TMCLKL	HY/2012/08	2014-06-16	Mid-Ebb	Cloudy	Small Wave	SR10A	Middle	7.6	2	2	16:25	26.8	7.79	20.3	6.12	2.75	6



Project	Works	Date	Tide	Weather	Sea Condition	Stat	Level	Water Depth	Lev_Cod	Replicate	Time	Temp(°C)	pH	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)
TMCLKL	HY/2012/08	2014-06-16	Mid-Ebb	Cloudy	Small Wave	SR10A	Bottom	14.1	3	1	16:25	26.6	7.83	20.9	6.02	2.99	7.4
TMCLKL	HY/2012/08	2014-06-16	Mid-Ebb	Cloudy	Small Wave	SR10A	Bottom	14.1	3	2	16:25	26.5	7.81	21	6.04	2.97	7.2
TMCLKL	HY/2012/08	2014-06-18	Mid-Flood	Cloudy	Small Wave	CS4	Surface	1	1	1	11:42	27.2	7.82	18.4	6.35	3.43	3.5
TMCLKL	HY/2012/08	2014-06-18	Mid-Flood	Cloudy	Small Wave	CS4	Surface	1	1	2	11:42	27.1	7.81	18.3	6.38	3.41	3.2
TMCLKL	HY/2012/08	2014-06-18	Mid-Flood	Cloudy	Small Wave	CS4	Middle	11.4	2	1	11:42	26.8	7.84	18.6	5.97	3.37	3.5
TMCLKL	HY/2012/08	2014-06-18	Mid-Flood	Cloudy	Small Wave	CS4	Middle	11.4	2	2	11:42	26.7	7.83	18.6	5.95	3.4	2.9
TMCLKL	HY/2012/08	2014-06-18	Mid-Flood	Cloudy	Small Wave	CS4	Bottom	21.7	3	1	11:42	26.5	7.86	18.9	5.89	3.44	2.7
TMCLKL	HY/2012/08	2014-06-18	Mid-Flood	Cloudy	Small Wave	CS4	Bottom	21.7	3	2	11:42	26.6	7.84	18.8	5.87	3.43	3.1
TMCLKL	HY/2012/08	2014-06-18	Mid-Flood	Cloudy	Small Wave	CS6	Surface	1	1	1	08:30	27.1	7.79	18.3	6.24	3.54	2.7
TMCLKL	HY/2012/08	2014-06-18	Mid-Flood	Cloudy	Small Wave	CS6	Surface	1	1	2	08:30	27.2	7.8	18.2	6.27	3.56	3.8
TMCLKL	HY/2012/08	2014-06-18	Mid-Flood	Cloudy	Small Wave	CS6	Middle	7.6	2	1	08:30	26.8	7.82	18.6	6.23	3.69	2.7
TMCLKL	HY/2012/08	2014-06-18	Mid-Flood	Cloudy	Small Wave	CS6	Middle	7.6	2	2	08:30	26.7	7.83	18.5	6.21	3.71	3.1
TMCLKL	HY/2012/08	2014-06-18	Mid-Flood	Cloudy	Small Wave	CS6	Bottom	14.1	3	1	08:30	26.5	7.84	18.8	6.18	3.59	2.7
TMCLKL	HY/2012/08	2014-06-18	Mid-Flood	Cloudy	Small Wave	CS6	Bottom	14.1	3	2	08:30	26.6	7.83	18.9	6.16	3.57	3.8
TMCLKL	HY/2012/08	2014-06-18	Mid-Flood	Cloudy	Small Wave	IS12	Surface	1	1	1	10:54	27.1	7.81	18.4	6.31	3.51	2.7
TMCLKL	HY/2012/08	2014-06-18	Mid-Flood	Cloudy	Small Wave	IS12	Surface	1	1	2	10:54	27.1	7.8	18.3	6.29	3.49	2.1
TMCLKL	HY/2012/08	2014-06-18	Mid-Flood	Cloudy	Small Wave	IS12	Middle	7.7	2	1	10:54	26.8	7.83	18.6	6.25	3.39	2.3
TMCLKL	HY/2012/08	2014-06-18	Mid-Flood	Cloudy	Small Wave	IS12	Middle	7.7	2	2	10:54	26.7	7.81	18.5	6.28	3.43	2.8
TMCLKL	HY/2012/08	2014-06-18	Mid-Flood	Cloudy	Small Wave	IS12	Bottom	14.4	3	1	10:54	26.6	7.83	18.9	6.15	3.33	3
TMCLKL	HY/2012/08	2014-06-18	Mid-Flood	Cloudy	Small Wave	IS12	Bottom	14.4	3	2	10:54	26.6	7.84	18.8	6.18	3.35	3.7
TMCLKL	HY/2012/08	2014-06-18	Mid-Flood	Cloudy	Small Wave	IS13	Surface	1	1	1	10:30	27.2	7.79	18.2	6.53	3.63	3.2
TMCLKL	HY/2012/08	2014-06-18	Mid-Flood	Cloudy	Small Wave	IS13	Surface	1	1	2	10:30	27.1	7.81	18.3	6.56	3.66	3.2
TMCLKL	HY/2012/08	2014-06-18	Mid-Flood	Cloudy	Small Wave	IS13	Middle	7.4	2	1	10:30	26.8	7.81	18.5	6.34	3.39	2.3
TMCLKL	HY/2012/08	2014-06-18	Mid-Flood	Cloudy	Small Wave	IS13	Middle	7.4	2	2	10:30	26.8	7.82	18.5	6.36	3.37	2.8
TMCLKL	HY/2012/08	2014-06-18	Mid-Flood	Cloudy	Small Wave	IS13	Bottom	13.7	3	1	10:30	26.6	7.84	18.9	6.29	3.43	2.8
TMCLKL	HY/2012/08	2014-06-18	Mid-Flood	Cloudy	Small Wave	IS13	Bottom	13.7	3	2	10:30	26.5	7.82	18.7	6.31	3.47	2.3
TMCLKL	HY/2012/08	2014-06-18	Mid-Flood	Cloudy	Small Wave	IS14	Surface	1	1	1	11:18	27.1	7.79	18.3	6.32	3.62	2.8
TMCLKL	HY/2012/08	2014-06-18	Mid-Flood	Cloudy	Small Wave	IS14	Surface	1	1	2	11:18	27	7.8	18.3	6.34	3.64	2
TMCLKL	HY/2012/08	2014-06-18	Mid-Flood	Cloudy	Small Wave	IS14	Middle	7.5	2	1	11:18	26.7	7.82	18.5	5.91	3.53	2.4
TMCLKL	HY/2012/08	2014-06-18	Mid-Flood	Cloudy	Small Wave	IS14	Middle	7.5	2	2	11:18	26.6	7.83	18.6	5.87	3.55	2.6
TMCLKL	HY/2012/08	2014-06-18	Mid-Flood	Cloudy	Small Wave	IS14	Bottom	14	3	1	11:18	26.5	7.85	18.8	5.64	3.37	2.4
TMCLKL	HY/2012/08	2014-06-18	Mid-Flood	Cloudy	Small Wave	IS14	Bottom	14	3	2	11:18	26.5	7.83	18.9	5.67	3.39	2.6
TMCLKL	HY/2012/08	2014-06-18	Mid-Flood	Cloudy	Small Wave	IS15	Surface	1	1	1	10:06	27.1	7.8	18.3	6.49	3.57	3.3
TMCLKL	HY/2012/08	2014-06-18	Mid-Flood	Cloudy	Small Wave	IS15	Surface	1	1	2	10:06	27.1	7.81	18.3	6.47	3.55	3.1
TMCLKL	HY/2012/08	2014-06-18	Mid-Flood	Cloudy	Small Wave	IS15	Middle	6.9	2	1	10:06	26.7	7.83	18.5	6.25	3.54	2.6
TMCLKL	HY/2012/08	2014-06-18	Mid-Flood	Cloudy	Small Wave	IS15	Middle	6.9	2	2	10:06	26.8	7.85	18.6	6.29	3.56	2.4
TMCLKL	HY/2012/08	2014-06-18	Mid-Flood	Cloudy	Small Wave	IS15	Bottom	12.8	3	1	10:06	26.6	7.84	18.9	6.15	3.59	2.8
TMCLKL	HY/2012/08	2014-06-18	Mid-Flood	Cloudy	Small Wave	IS15	Bottom	12.8	3	2	10:06	26.6	7.83	18.8	6.18	3.58	2.1
TMCLKL	HY/2012/08	2014-06-18	Mid-Flood	Cloudy	Small Wave	SR8	Surface	1	1	1	09:18	27	7.81	18.3	6.19	3.45	2.5
TMCLKL	HY/2012/08	2014-06-18	Mid-Flood	Cloudy	Small Wave	SR8	Surface	1	1	2	09:18	27.1	7.8	18.3	6.22	3.47	2.5
TMCLKL	HY/2012/08	2014-06-18	Mid-Flood	Cloudy	Small Wave	SR8	Middle		2	1	09:18						
TMCLKL	HY/2012/08	2014-06-18	Mid-Flood	Cloudy	Small Wave	SR8	Middle		2	2	09:18						
TMCLKL	HY/2012/08	2014-06-18	Mid-Flood	Cloudy	Small Wave	SR8	Bottom	4.4	3	1	09:18	26.9	7.83	18.5	5.99	3.57	2.7
TMCLKL	HY/2012/08	2014-06-18	Mid-Flood	Cloudy	Small Wave	SR8	Bottom	4.4	3	2	09:18	26.8	7.82	18.6	6.01	3.55	2.4
TMCLKL	HY/2012/08	2014-06-18	Mid-Flood	Cloudy	Small Wave	SR9	Surface	1	1	1	09:42	27.2	7.81	18.4	6.43	3.45	3.4
TMCLKL	HY/2012/08	2014-06-18	Mid-Flood	Cloudy	Small Wave	SR9	Surface	1	1	2	09:42	27.1	7.82	18.3	6.46	3.43	3.4
TMCLKL	HY/2012/08	2014-06-18	Mid-Flood	Cloudy	Small Wave	SR9	Middle		2	1	09:42						
TMCLKL	HY/2012/08	2014-06-18	Mid-Flood	Cloudy	Small Wave	SR9	Middle		2	2	09:42						
TMCLKL	HY/2012/08	2014-06-18	Mid-Flood	Cloudy	Small Wave	SR9	Bottom	4.6	3	1	09:42	26.8	7.84	18.6	6.29	3.62	2.8
TMCLKL	HY/2012/08	2014-06-18	Mid-Flood	Cloudy	Small Wave	SR9	Bottom	4.6	3	2	09:42	26.8	7.83	18.5	6.32	3.59	2.6
TMCLKL	HY/2012/08	2014-06-18	Mid-Flood	Cloudy	Small Wave	SR10A	Surface	1	1	1	08:54	27.1	7.8	18.4	6.31	3.59	3.6
TMCLKL	HY/2012/08	2014-06-18	Mid-Flood	Cloudy	Small Wave	SR10A	Surface	1	1	2	08:54	27.1	7.79	18.3	6.35	3.6	2.7
TMCLKL	HY/2012/08	2014-06-18	Mid-Flood	Cloudy	Small Wave	SR10A	Middle	7.7	2	1	08:54	26.8	7.81	18.6	6.17	3.72	3.9
TMCLKL	HY/2012/08	2014-06-18	Mid-Flood	Cloudy	Small Wave	SR10A	Middle	7.7	2	2	08:54	26.7	7.83	18.6	6.14	3.68	3
TMCLKL	HY/2012/08	2014-06-18	Mid-Flood	Cloudy	Small Wave	SR10A	Bottom	14.4	3	1	08:54	26.6	7.83	18.9	6.09	3.71	2.8
TMCLKL	HY/2012/08	2014-06-18	Mid-Flood	Cloudy	Small Wave	SR10A	Bottom	14.4	3	2	08:54	26.5	7.84	18.8	6.06	3.75	3
TMCLKL	HY/2012/08	2014-06-18	Mid-Ebb	Cloudy	Small Wave	CS4	Surface	1	1	1	15:19	27.1	7.8	18.2	6.27	3.5	2.8
TMCLKL	HY/2012/08	2014-06-18	Mid-Ebb	Cloudy	Small Wave	CS4	Surface	1	1	2	15:19	27.1	7.81	18.3	6.3	3.49	2.7

Project	Works	Date	Tide	Weather	Sea Condition	Stat	Level	Water Depth	Lev_Cod	Replicate	Time	Temp(°C)	pH	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)
TMCLKL	HY/2012/08	2014-06-18	Mid-Ebb	Cloudy	Small Wave	CS4	Middle	11.2	2	1	15:19	26.7	7.82	18.5	5.9	3.45	2.9
TMCLKL	HY/2012/08	2014-06-18	Mid-Ebb	Cloudy	Small Wave	CS4	Middle	11.2	2	2	15:19	26.8	7.83	18.7	5.87	3.47	2.5
TMCLKL	HY/2012/08	2014-06-18	Mid-Ebb	Cloudy	Small Wave	CS4	Bottom	21.4	3	1	15:19	26.5	7.85	18.9	5.8	3.51	2.8
TMCLKL	HY/2012/08	2014-06-18	Mid-Ebb	Cloudy	Small Wave	CS4	Bottom	21.4	3	2	15:19	26.6	7.84	18.9	5.78	3.49	2.1
TMCLKL	HY/2012/08	2014-06-18	Mid-Ebb	Cloudy	Small Wave	CS6	Surface	1	1	1	18:31	27	7.8	18.4	6.17	3.61	2.7
TMCLKL	HY/2012/08	2014-06-18	Mid-Ebb	Cloudy	Small Wave	CS6	Surface	1	1	2	18:31	27.1	7.81	18.2	6.19	3.65	3.2
TMCLKL	HY/2012/08	2014-06-18	Mid-Ebb	Cloudy	Small Wave	CS6	Middle	7.4	2	1	18:31	26.7	7.83	18.5	6.18	3.77	3.1
TMCLKL	HY/2012/08	2014-06-18	Mid-Ebb	Cloudy	Small Wave	CS6	Middle	7.4	2	2	18:31	26.6	7.82	18.6	6.14	3.79	3.2
TMCLKL	HY/2012/08	2014-06-18	Mid-Ebb	Cloudy	Small Wave	CS6	Bottom	13.8	3	1	18:31	26.5	7.84	18.9	6.1	3.65	2
TMCLKL	HY/2012/08	2014-06-18	Mid-Ebb	Cloudy	Small Wave	CS6	Bottom	13.8	3	2	18:31	26.5	7.83	18.8	6.09	3.66	3.6
TMCLKL	HY/2012/08	2014-06-18	Mid-Ebb	Cloudy	Small Wave	IS12	Surface	1	1	1	16:07	27.2	7.8	18.3	6.23	3.58	2.9
TMCLKL	HY/2012/08	2014-06-18	Mid-Ebb	Cloudy	Small Wave	IS12	Surface	1	1	2	16:07	27.1	7.81	18.4	6.2	3.56	3.3
TMCLKL	HY/2012/08	2014-06-18	Mid-Ebb	Cloudy	Small Wave	IS12	Middle	7.6	2	1	16:07	26.7	7.82	18.6	6.17	3.46	3.9
TMCLKL	HY/2012/08	2014-06-18	Mid-Ebb	Cloudy	Small Wave	IS12	Middle	7.6	2	2	16:07	26.8	7.83	18.6	6.2	3.49	4.1
TMCLKL	HY/2012/08	2014-06-18	Mid-Ebb	Cloudy	Small Wave	IS12	Bottom	14.2	3	1	16:07	26.5	7.84	18.8	6.07	3.4	4.5
TMCLKL	HY/2012/08	2014-06-18	Mid-Ebb	Cloudy	Small Wave	IS12	Bottom	14.2	3	2	16:07	26.6	7.83	18.9	6.1	3.42	2.8
TMCLKL	HY/2012/08	2014-06-18	Mid-Ebb	Cloudy	Small Wave	IS13	Surface	1	1	1	16:31	27.1	7.8	18.4	6.45	3.7	2.6
TMCLKL	HY/2012/08	2014-06-18	Mid-Ebb	Cloudy	Small Wave	IS13	Surface	1	1	2	16:31	27	7.81	18.2	6.48	3.72	2.9
TMCLKL	HY/2012/08	2014-06-18	Mid-Ebb	Cloudy	Small Wave	IS13	Middle	7.2	2	1	16:31	26.7	7.83	18.5	6.26	3.47	3.5
TMCLKL	HY/2012/08	2014-06-18	Mid-Ebb	Cloudy	Small Wave	IS13	Middle	7.2	2	2	16:31	26.8	7.82	18.6	6.28	3.45	3
TMCLKL	HY/2012/08	2014-06-18	Mid-Ebb	Cloudy	Small Wave	IS13	Bottom	13.4	3	1	16:31	26.7	7.84	18.8	6.22	3.5	2.6
TMCLKL	HY/2012/08	2014-06-18	Mid-Ebb	Cloudy	Small Wave	IS13	Bottom	13.4	3	2	16:31	26.6	7.83	18.8	6.24	3.53	2.9
TMCLKL	HY/2012/08	2014-06-18	Mid-Ebb	Cloudy	Small Wave	IS14	Surface	1	1	1	15:43	27.1	7.8	18.2	6.24	3.7	3
TMCLKL	HY/2012/08	2014-06-18	Mid-Ebb	Cloudy	Small Wave	IS14	Surface	1	1	2	15:43	27	7.81	18.3	6.26	3.72	2.7
TMCLKL	HY/2012/08	2014-06-18	Mid-Ebb	Cloudy	Small Wave	IS14	Middle	7.4	2	1	15:43	26.8	7.83	18.5	5.84	3.6	2.9
TMCLKL	HY/2012/08	2014-06-18	Mid-Ebb	Cloudy	Small Wave	IS14	Middle	7.4	2	2	15:43	26.7	7.82	18.6	5.81	3.62	2.5
TMCLKL	HY/2012/08	2014-06-18	Mid-Ebb	Cloudy	Small Wave	IS14	Bottom	13.8	3	1	15:43	26.6	7.84	18.9	5.56	3.45	3.1
TMCLKL	HY/2012/08	2014-06-18	Mid-Ebb	Cloudy	Small Wave	IS14	Bottom	13.8	3	2	15:43	26.5	7.85	18.8	5.6	3.47	2.5
TMCLKL	HY/2012/08	2014-06-18	Mid-Ebb	Cloudy	Small Wave	IS15	Surface	1	1	1	16:55	27.2	7.79	18.4	6.42	3.65	2.6
TMCLKL	HY/2012/08	2014-06-18	Mid-Ebb	Cloudy	Small Wave	IS15	Surface	1	1	2	16:55	27.1	7.8	18.3	6.39	3.63	2.6
TMCLKL	HY/2012/08	2014-06-18	Mid-Ebb	Cloudy	Small Wave	IS15	Middle	6.8	2	1	16:55	26.8	7.82	18.6	6.17	3.51	2.8
TMCLKL	HY/2012/08	2014-06-18	Mid-Ebb	Cloudy	Small Wave	IS15	Middle	6.8	2	2	16:55	26.7	7.81	18.5	6.21	3.53	2.3
TMCLKL	HY/2012/08	2014-06-18	Mid-Ebb	Cloudy	Small Wave	IS15	Bottom	12.5	3	1	16:55	26.5	7.85	18.9	6.09	3.67	2.9
TMCLKL	HY/2012/08	2014-06-18	Mid-Ebb	Cloudy	Small Wave	IS15	Bottom	12.5	3	2	16:55	26.6	7.83	18.8	6.1	3.65	3.7
TMCLKL	HY/2012/08	2014-06-18	Mid-Ebb	Cloudy	Small Wave	SR8	Surface	1	1	1	17:43	27	7.82	18.4	6.15	3.53	3.5
TMCLKL	HY/2012/08	2014-06-18	Mid-Ebb	Cloudy	Small Wave	SR8	Surface	1	1	2	17:43	27	7.81	18.3	6.11	3.55	4.1
TMCLKL	HY/2012/08	2014-06-18	Mid-Ebb	Cloudy	Small Wave	SR8	Middle		2	1	17:43						
TMCLKL	HY/2012/08	2014-06-18	Mid-Ebb	Cloudy	Small Wave	SR8	Middle		2	2	17:43						
TMCLKL	HY/2012/08	2014-06-18	Mid-Ebb	Cloudy	Small Wave	SR8	Bottom	4.3	3	1	17:43	26.8	7.82	18.6	5.91	3.62	3.4
TMCLKL	HY/2012/08	2014-06-18	Mid-Ebb	Cloudy	Small Wave	SR8	Bottom	4.3	3	2	17:43	26.9	7.83	18.6	5.93	3.65	3.8
TMCLKL	HY/2012/08	2014-06-18	Mid-Ebb	Cloudy	Small Wave	SR9	Surface	1	1	1	17:19	27.1	7.82	18.2	6.35	3.53	3.5
TMCLKL	HY/2012/08	2014-06-18	Mid-Ebb	Cloudy	Small Wave	SR9	Surface	1	1	2	17:19	27.1	7.8	18.3	6.37	3.51	2.2
TMCLKL	HY/2012/08	2014-06-18	Mid-Ebb	Cloudy	Small Wave	SR9	Middle		2	1	17:19						
TMCLKL	HY/2012/08	2014-06-18	Mid-Ebb	Cloudy	Small Wave	SR9	Middle		2	2	17:19						
TMCLKL	HY/2012/08	2014-06-18	Mid-Ebb	Cloudy	Small Wave	SR9	Bottom	4.4	3	1	17:19	26.8	7.83	18.5	6.24	3.7	3.3
TMCLKL	HY/2012/08	2014-06-18	Mid-Ebb	Cloudy	Small Wave	SR9	Bottom	4.4	3	2	17:19	26.7	7.84	18.5	6.21	3.68	2.9
TMCLKL	HY/2012/08	2014-06-18	Mid-Ebb	Cloudy	Small Wave	SR10A	Surface	1	1	1	18:07	27.1	7.81	18.3	6.23	3.67	2.7
TMCLKL	HY/2012/08	2014-06-18	Mid-Ebb	Cloudy	Small Wave	SR10A	Surface	1	1	2	18:07	27	7.8	18.4	6.26	3.69	3.6
TMCLKL	HY/2012/08	2014-06-18	Mid-Ebb	Cloudy	Small Wave	SR10A	Middle	7.6	2	1	18:07	26.6	7.82	18.6	6.09	3.8	2.7
TMCLKL	HY/2012/08	2014-06-18	Mid-Ebb	Cloudy	Small Wave	SR10A	Middle	7.6	2	2	18:07	26.7	7.83	18.5	6.07	3.78	3.1
TMCLKL	HY/2012/08	2014-06-18	Mid-Ebb	Cloudy	Small Wave	SR10A	Bottom	14.2	3	1	18:07	26.5	7.83	18.8	6.02	3.83	2.3
TMCLKL	HY/2012/08	2014-06-18	Mid-Ebb	Cloudy	Small Wave	SR10A	Bottom	14.2	3	2	18:07	26.6	7.84	18.9	5.99	3.79	2.6
TMCLKL	HY/2012/08	2014-06-20	Mid-Flood	Cloudy	Small Wave	CS4	Surface	1	1	1	14:22	27.3	7.88	18.4	6.26	4.34	1.2
TMCLKL	HY/2012/08	2014-06-20	Mid-Flood	Cloudy	Small Wave	CS4	Surface	1	1	2	14:22	27.2	7.87	18.5	6.29	4.32	1.2
TMCLKL	HY/2012/08	2014-06-20	Mid-Flood	Cloudy	Small Wave	CS4	Middle	11.2	2	1	14:22	26.9	7.9	18.7	5.88	4.28	1.5
TMCLKL	HY/2012/08	2014-06-20	Mid-Flood	Cloudy	Small Wave	CS4	Middle	11.2	2	2	14:22	26.8	7.89	18.8	5.86	4.31	1.2
TMCLKL	HY/2012/08	2014-06-20	Mid-Flood	Cloudy	Small Wave	CS4	Bottom	21.4	3	1	14:22	26.8	7.92	19	5.8	4.35	2.5
TMCLKL	HY/2012/08	2014-06-20	Mid-Flood	Cloudy	Small Wave	CS4	Bottom	21.4	3	2	14:22	26.7	7.9	18.9	5.78	4.34	2.5

Project	Works	Date	Tide	Weather	Sea Condition	Stat	Level	Water Depth	Lev_Cod	Replicate	Time	Temp(°C)	pH	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)
TMCLKL	HY/2012/08	2014-06-20	Mid-Flood	Cloudy	Small Wave	CS6	Surface	1	1	1	11:10	27.2	7.85	18.3	6.15	4.45	2
TMCLKL	HY/2012/08	2014-06-20	Mid-Flood	Cloudy	Small Wave	CS6	Surface	1	1	2	11:10	27.3	7.86	18.4	6.18	4.47	1.9
TMCLKL	HY/2012/08	2014-06-20	Mid-Flood	Cloudy	Small Wave	CS6	Middle	7.7	2	1	11:10	26.9	7.88	18.7	6.16	4.6	2.8
TMCLKL	HY/2012/08	2014-06-20	Mid-Flood	Cloudy	Small Wave	CS6	Middle	7.7	2	2	11:10	26.8	7.89	18.8	6.12	4.62	2.8
TMCLKL	HY/2012/08	2014-06-20	Mid-Flood	Cloudy	Small Wave	CS6	Bottom	14.4	3	1	11:10	26.7	7.9	19	6.09	4.5	3.3
TMCLKL	HY/2012/08	2014-06-20	Mid-Flood	Cloudy	Small Wave	CS6	Bottom	14.4	3	2	11:10	26.6	7.89	18.9	6.07	4.48	3.7
TMCLKL	HY/2012/08	2014-06-20	Mid-Flood	Cloudy	Small Wave	IS12	Surface	1	1	1	13:34	27.2	7.87	18.4	6.22	4.42	2.8
TMCLKL	HY/2012/08	2014-06-20	Mid-Flood	Cloudy	Small Wave	IS12	Surface	1	1	2	13:34	27.1	7.86	18.5	6.2	4.4	2.3
TMCLKL	HY/2012/08	2014-06-20	Mid-Flood	Cloudy	Small Wave	IS12	Middle	7.9	2	1	13:34	26.8	7.89	18.7	6.16	4.3	3.6
TMCLKL	HY/2012/08	2014-06-20	Mid-Flood	Cloudy	Small Wave	IS12	Middle	7.9	2	2	13:34	26.7	7.87	18.7	6.19	4.34	3.6
TMCLKL	HY/2012/08	2014-06-20	Mid-Flood	Cloudy	Small Wave	IS12	Bottom	14.8	3	1	13:34	26.6	7.89	18.9	6.06	4.24	4
TMCLKL	HY/2012/08	2014-06-20	Mid-Flood	Cloudy	Small Wave	IS12	Bottom	14.8	3	2	13:34	26.7	7.9	18.8	6.09	4.26	4.1
TMCLKL	HY/2012/08	2014-06-20	Mid-Flood	Cloudy	Small Wave	IS13	Surface	1	1	1	13:10	27.3	7.85	18.3	6.44	4.54	3
TMCLKL	HY/2012/08	2014-06-20	Mid-Flood	Cloudy	Small Wave	IS13	Surface	1	1	2	13:10	27.2	7.87	18.4	6.47	4.57	2.4
TMCLKL	HY/2012/08	2014-06-20	Mid-Flood	Cloudy	Small Wave	IS13	Middle	7.6	2	1	13:10	26.9	7.87	18.6	6.25	4.3	3.2
TMCLKL	HY/2012/08	2014-06-20	Mid-Flood	Cloudy	Small Wave	IS13	Middle	7.6	2	2	13:10	26.8	7.88	18.5	6.27	4.28	3.1
TMCLKL	HY/2012/08	2014-06-20	Mid-Flood	Cloudy	Small Wave	IS13	Bottom	14.2	3	1	13:10	26.6	7.9	18.8	6.2	4.34	3.8
TMCLKL	HY/2012/08	2014-06-20	Mid-Flood	Cloudy	Small Wave	IS13	Bottom	14.2	3	2	13:10	26.7	7.88	18.9	6.22	4.38	4
TMCLKL	HY/2012/08	2014-06-20	Mid-Flood	Cloudy	Small Wave	IS14	Surface	1	1	1	13:58	27.3	7.85	18.4	6.23	4.53	3.3
TMCLKL	HY/2012/08	2014-06-20	Mid-Flood	Cloudy	Small Wave	IS14	Surface	1	1	2	13:58	27.2	7.86	18.3	6.25	4.55	3.3
TMCLKL	HY/2012/08	2014-06-20	Mid-Flood	Cloudy	Small Wave	IS14	Middle	7.3	2	1	13:58	26.7	7.88	18.7	5.82	4.44	3.9
TMCLKL	HY/2012/08	2014-06-20	Mid-Flood	Cloudy	Small Wave	IS14	Middle	7.3	2	2	13:58	26.8	7.89	18.6	5.78	4.46	4.1
TMCLKL	HY/2012/08	2014-06-20	Mid-Flood	Cloudy	Small Wave	IS14	Bottom	13.6	3	1	13:58	26.5	7.91	18.8	5.55	4.28	4.1
TMCLKL	HY/2012/08	2014-06-20	Mid-Flood	Cloudy	Small Wave	IS14	Bottom	13.6	3	2	13:58	26.6	7.89	18.9	5.58	4.3	3.7
TMCLKL	HY/2012/08	2014-06-20	Mid-Flood	Cloudy	Small Wave	IS15	Surface	1	1	1	12:46	27.1	7.86	18.3	6.4	4.48	1.2
TMCLKL	HY/2012/08	2014-06-20	Mid-Flood	Cloudy	Small Wave	IS15	Surface	1	1	2	12:46	27.2	7.87	18.4	6.38	4.46	2
TMCLKL	HY/2012/08	2014-06-20	Mid-Flood	Cloudy	Small Wave	IS15	Middle	7.1	2	1	12:46	6.8	7.89	18.7	6.16	4.45	3.4
TMCLKL	HY/2012/08	2014-06-20	Mid-Flood	Cloudy	Small Wave	IS15	Middle	7.1	2	2	12:46	26.9	7.88	18.6	6.2	4.47	3.3
TMCLKL	HY/2012/08	2014-06-20	Mid-Flood	Cloudy	Small Wave	IS15	Bottom	13.2	3	1	12:46	26.6	7.9	18.9	6.06	4.5	3.6
TMCLKL	HY/2012/08	2014-06-20	Mid-Flood	Cloudy	Small Wave	IS15	Bottom	13.2	3	2	12:46	26.7	7.89	19	6.09	4.49	3.7
TMCLKL	HY/2012/08	2014-06-20	Mid-Flood	Cloudy	Small Wave	SR8	Surface	1	1	1	11:58	27.2	7.87	18.3	6.1	4.36	1.9
TMCLKL	HY/2012/08	2014-06-20	Mid-Flood	Cloudy	Small Wave	SR8	Surface	1	1	2	11:58	27.2	7.86	18.4	6.13	4.38	1.9
TMCLKL	HY/2012/08	2014-06-20	Mid-Flood	Cloudy	Small Wave	SR8	Middle		2	1	11:58						
TMCLKL	HY/2012/08	2014-06-20	Mid-Flood	Cloudy	Small Wave	SR8	Middle		2	2	11:58						
TMCLKL	HY/2012/08	2014-06-20	Mid-Flood	Cloudy	Small Wave	SR8	Bottom	4.2	3	1	11:58	26.9	7.89	18.7	5.9	4.48	2.8
TMCLKL	HY/2012/08	2014-06-20	Mid-Flood	Cloudy	Small Wave	SR8	Bottom	4.2	3	2	11:58	26.8	7.88	18.6	5.92	4.46	3.4
TMCLKL	HY/2012/08	2014-06-20	Mid-Flood	Cloudy	Small Wave	SR9	Surface	1	1	1	12:22	27.3	7.87	18.4	6.34	4.36	4.2
TMCLKL	HY/2012/08	2014-06-20	Mid-Flood	Cloudy	Small Wave	SR9	Surface	1	1	2	12:22	27.2	7.88	18.5	6.37	4.34	4.3
TMCLKL	HY/2012/08	2014-06-20	Mid-Flood	Cloudy	Small Wave	SR9	Middle		2	1	12:22						
TMCLKL	HY/2012/08	2014-06-20	Mid-Flood	Cloudy	Small Wave	SR9	Middle		2	2	12:22						
TMCLKL	HY/2012/08	2014-06-20	Mid-Flood	Cloudy	Small Wave	SR9	Bottom	4.4	3	1	12:22	26.9	7.9	18.6	6.2	4.53	4
TMCLKL	HY/2012/08	2014-06-20	Mid-Flood	Cloudy	Small Wave	SR9	Bottom	4.4	3	2	12:22	26.8	7.89	18.7	6.23	4.5	3.7
TMCLKL	HY/2012/08	2014-06-20	Mid-Flood	Cloudy	Small Wave	SR10A	Surface	1	1	1	11:34	27.2	7.86	18.4	6.22	4.5	3.6
TMCLKL	HY/2012/08	2014-06-20	Mid-Flood	Cloudy	Small Wave	SR10A	Surface	1	1	2	11:34	27.1	7.85	18.5	6.26	4.51	3.5
TMCLKL	HY/2012/08	2014-06-20	Mid-Flood	Cloudy	Small Wave	SR10A	Middle	7.4	2	1	11:34	26.8	7.87	18.7	6.08	4.63	3.6
TMCLKL	HY/2012/08	2014-06-20	Mid-Flood	Cloudy	Small Wave	SR10A	Middle	7.4	2	2	11:34	26.9	7.89	18.6	6.05	4.59	3.4
TMCLKL	HY/2012/08	2014-06-20	Mid-Flood	Cloudy	Small Wave	SR10A	Bottom	13.8	3	1	11:34	26.7	7.89	18.9	6	4.62	3.8
TMCLKL	HY/2012/08	2014-06-20	Mid-Flood	Cloudy	Small Wave	SR10A	Bottom	13.8	3	2	11:34	26.6	7.9	19	5.97	4.66	3.7
TMCLKL	HY/2012/08	2014-06-20	Mid-Ebb	Cloudy	Small Wave	CS4	Surface	1	1	1	17:22	27.2	7.87	18.3	6.18	4.41	1.8
TMCLKL	HY/2012/08	2014-06-20	Mid-Ebb	Cloudy	Small Wave	CS4	Surface	1	1	2	17:22	27.3	7.86	18.4	6.21	4.39	1.2
TMCLKL	HY/2012/08	2014-06-20	Mid-Ebb	Cloudy	Small Wave	CS4	Middle	11.1	2	1	17:22	26.8	7.88	18.6	5.8	4.36	3.8
TMCLKL	HY/2012/08	2014-06-20	Mid-Ebb	Cloudy	Small Wave	CS4	Middle	11.1	2	2	17:22	26.9	7.89	18.7	5.78	4.38	4.3
TMCLKL	HY/2012/08	2014-06-20	Mid-Ebb	Cloudy	Small Wave	CS4	Bottom	21.1	3	1	17:22	26.7	7.9	19	5.73	4.43	6.8
TMCLKL	HY/2012/08	2014-06-20	Mid-Ebb	Cloudy	Small Wave	CS4	Bottom	21.1	3	2	17:22	26.7	7.89	18.9	5.7	4.41	6.9
TMCLKL	HY/2012/08	2014-06-20	Mid-Ebb	Cloudy	Small Wave	CS6	Surface	1	1	1	20:02	27.3	7.84	18.4	6.07	4.53	3.2
TMCLKL	HY/2012/08	2014-06-20	Mid-Ebb	Cloudy	Small Wave	CS6	Surface	1	1	2	20:02	27.2	7.85	18.3	6.1	4.55	3
TMCLKL	HY/2012/08	2014-06-20	Mid-Ebb	Cloudy	Small Wave	CS6	Middle	7.6	2	1	20:02	26.8	7.89	18.8	6.08	4.68	3.4
TMCLKL	HY/2012/08	2014-06-20	Mid-Ebb	Cloudy	Small Wave	CS6	Middle	7.6	2	2	20:02	26.7	7.88	18.7	6.04	4.69	3.6



Project	Works	Date	Tide	Weather	Sea Condition	Stat	Level	Water Depth	Lev_Cod	Replicate	Time	Temp(°C)	pH	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)
TMCLKL	HY/2012/08	2014-06-20	Mid-Ebb	Cloudy	Small Wave	CS6	Bottom	14.2	3	1	20:02	26.6	7.91	18.9	6.01	4.57	3.5
TMCLKL	HY/2012/08	2014-06-20	Mid-Ebb	Cloudy	Small Wave	CS6	Bottom	14.2	3	2	20:02	26.7	7.9	19	6	4.55	3.8
TMCLKL	HY/2012/08	2014-06-20	Mid-Ebb	Cloudy	Small Wave	IS12	Surface	1	1	1	18:02	27.1	7.88	18.3	6.15	4.5	2.2
TMCLKL	HY/2012/08	2014-06-20	Mid-Ebb	Cloudy	Small Wave	IS12	Surface	1	1	2	18:02	27.2	7.87	18.4	6.13	4.48	2
TMCLKL	HY/2012/08	2014-06-20	Mid-Ebb	Cloudy	Small Wave	IS12	Middle	7.8	2	1	18:02	26.9	7.9	18.6	6.08	4.37	3
TMCLKL	HY/2012/08	2014-06-20	Mid-Ebb	Cloudy	Small Wave	IS12	Middle	7.8	2	2	18:02	26.8	7.88	18.7	6.11	4.41	3.3
TMCLKL	HY/2012/08	2014-06-20	Mid-Ebb	Cloudy	Small Wave	IS12	Bottom	14.6	3	1	18:02	26.7	7.88	19	5.98	4.32	4.5
TMCLKL	HY/2012/08	2014-06-20	Mid-Ebb	Cloudy	Small Wave	IS12	Bottom	14.6	3	2	18:02	26.8	7.89	18.9	6.01	4.33	4.8
TMCLKL	HY/2012/08	2014-06-20	Mid-Ebb	Cloudy	Small Wave	IS13	Surface	1	1	1	18:22	27.2	7.86	18.4	6.36	4.61	2.8
TMCLKL	HY/2012/08	2014-06-20	Mid-Ebb	Cloudy	Small Wave	IS13	Surface	1	1	2	18:22	27.1	7.87	18.3	6.4	4.65	2.2
TMCLKL	HY/2012/08	2014-06-20	Mid-Ebb	Cloudy	Small Wave	IS13	Middle	7.5	2	1	18:22	26.8	7.88	18.5	6.17	4.38	3.4
TMCLKL	HY/2012/08	2014-06-20	Mid-Ebb	Cloudy	Small Wave	IS13	Middle	7.5	2	2	18:22	26.9	7.87	18.6	6.2	4.36	3.3
TMCLKL	HY/2012/08	2014-06-20	Mid-Ebb	Cloudy	Small Wave	IS13	Bottom	14	3	1	18:22	26.7	7.91	18.9	6.13	4.4	4.4
TMCLKL	HY/2012/08	2014-06-20	Mid-Ebb	Cloudy	Small Wave	IS13	Bottom	14	3	2	18:22	26.6	7.89	19	6.15	4.44	4.5
TMCLKL	HY/2012/08	2014-06-20	Mid-Ebb	Cloudy	Small Wave	IS14	Surface	1	1	1	17:42	27.2	7.84	18.5	6.15	4.6	2.3
TMCLKL	HY/2012/08	2014-06-20	Mid-Ebb	Cloudy	Small Wave	IS14	Surface	1	1	2	17:42	27.2	7.85	18.4	6.18	4.63	2.5
TMCLKL	HY/2012/08	2014-06-20	Mid-Ebb	Cloudy	Small Wave	IS14	Middle	7.2	2	1	17:42	26.8	7.89	18.6	5.74	4.51	3.6
TMCLKL	HY/2012/08	2014-06-20	Mid-Ebb	Cloudy	Small Wave	IS14	Middle	7.2	2	2	17:42	26.7	7.88	18.7	5.7	4.53	3.2
TMCLKL	HY/2012/08	2014-06-20	Mid-Ebb	Cloudy	Small Wave	IS14	Bottom	13.4	3	1	17:42	26.6	7.9	18.9	5.47	4.36	3.8
TMCLKL	HY/2012/08	2014-06-20	Mid-Ebb	Cloudy	Small Wave	IS14	Bottom	13.4	3	2	17:42	26.5	7.91	18.9	5.5	4.38	3.8
TMCLKL	HY/2012/08	2014-06-20	Mid-Ebb	Cloudy	Small Wave	IS15	Surface	1	1	1	18:42	27.2	7.85	18.4	6.32	4.56	3.1
TMCLKL	HY/2012/08	2014-06-20	Mid-Ebb	Cloudy	Small Wave	IS15	Surface	1	1	2	18:42	27.1	7.86	18.3	6.3	4.54	3.4
TMCLKL	HY/2012/08	2014-06-20	Mid-Ebb	Cloudy	Small Wave	IS15	Middle	7	2	1	18:42	26.9	7.9	18.6	6.08	4.53	3.5
TMCLKL	HY/2012/08	2014-06-20	Mid-Ebb	Cloudy	Small Wave	IS15	Middle	7	2	2	18:42	26.8	7.89	18.7	6.11	4.55	3.7
TMCLKL	HY/2012/08	2014-06-20	Mid-Ebb	Cloudy	Small Wave	IS15	Bottom	13	3	1	18:42	26.7	7.89	19	5.98	4.57	4.2
TMCLKL	HY/2012/08	2014-06-20	Mid-Ebb	Cloudy	Small Wave	IS15	Bottom	13	3	2	18:42	26.7	7.9	18.9	6.01	4.56	4.1
TMCLKL	HY/2012/08	2014-06-20	Mid-Ebb	Cloudy	Small Wave	SR8	Surface	1	1	1	19:22	27.1	7.86	18.3	6.02	4.44	3.5
TMCLKL	HY/2012/08	2014-06-20	Mid-Ebb	Cloudy	Small Wave	SR8	Surface	1	1	2	19:22	27.2	7.87	18.4	6.04	4.46	2.7
TMCLKL	HY/2012/08	2014-06-20	Mid-Ebb	Cloudy	Small Wave	SR8	Middle		2	1	19:22						
TMCLKL	HY/2012/08	2014-06-20	Mid-Ebb	Cloudy	Small Wave	SR8	Middle		2	2	19:22						
TMCLKL	HY/2012/08	2014-06-20	Mid-Ebb	Cloudy	Small Wave	SR8	Bottom	4	3	1	19:22	26.9	7.9	18.7	5.81	4.56	2
TMCLKL	HY/2012/08	2014-06-20	Mid-Ebb	Cloudy	Small Wave	SR8	Bottom	4	3	2	19:22	26.9	7.89	18.6	5.84	4.54	2.9
TMCLKL	HY/2012/08	2014-06-20	Mid-Ebb	Cloudy	Small Wave	SR9	Surface	1	1	1	19:02	27.2	7.88	18.5	6.26	4.44	2.8
TMCLKL	HY/2012/08	2014-06-20	Mid-Ebb	Cloudy	Small Wave	SR9	Surface	1	1	2	19:02	27.3	7.89	18.4	6.3	4.42	3.4
TMCLKL	HY/2012/08	2014-06-20	Mid-Ebb	Cloudy	Small Wave	SR9	Middle		2	1	19:02						
TMCLKL	HY/2012/08	2014-06-20	Mid-Ebb	Cloudy	Small Wave	SR9	Middle		2	2	19:02						
TMCLKL	HY/2012/08	2014-06-20	Mid-Ebb	Cloudy	Small Wave	SR9	Bottom	4.1	3	1	19:02	26.9	7.89	18.7	6.13	4.6	2.7
TMCLKL	HY/2012/08	2014-06-20	Mid-Ebb	Cloudy	Small Wave	SR9	Bottom	4.1	3	2	19:02	26.8	7.88	18.6	6.14	4.58	3.9
TMCLKL	HY/2012/08	2014-06-20	Mid-Ebb	Cloudy	Small Wave	SR10A	Surface	1	1	1	19:42	27.2	7.85	18.4	6.15	4.57	3.9
TMCLKL	HY/2012/08	2014-06-20	Mid-Ebb	Cloudy	Small Wave	SR10A	Surface	1	1	2	19:42	27.2	7.86	18.4	6.18	4.59	3
TMCLKL	HY/2012/08	2014-06-20	Mid-Ebb	Cloudy	Small Wave	SR10A	Middle	7.3	2	1	19:42	26.9	7.88	18.7	6.01	4.7	4.2
TMCLKL	HY/2012/08	2014-06-20	Mid-Ebb	Cloudy	Small Wave	SR10A	Middle	7.3	2	2	19:42	26.8	7.89	18.8	5.98	4.68	3.6
TMCLKL	HY/2012/08	2014-06-20	Mid-Ebb	Cloudy	Small Wave	SR10A	Bottom	13.6	3	1	19:42	26.6	7.9	19	5.92	4.7	4.5
TMCLKL	HY/2012/08	2014-06-20	Mid-Ebb	Cloudy	Small Wave	SR10A	Bottom	13.6	3	2	19:42	26.7	7.89	18.9	5.9	4.74	3.1
TMCLKL	HY/2012/08	2014-06-23	Mid-Flood	Cloudy	Small Wave	CS4	Surface	1	1	1	18:24	27	7.66	18.5	6.34	3.95	3.3
TMCLKL	HY/2012/08	2014-06-23	Mid-Flood	Cloudy	Small Wave	CS4	Surface	1	1	2	18:24	27.1	7.67	18.5	6.36	3.97	3
TMCLKL	HY/2012/08	2014-06-23	Mid-Flood	Cloudy	Small Wave	CS4	Middle	11.2	2	1	18:24	26.8	7.22	18.7	5.82	4.06	3.5
TMCLKL	HY/2012/08	2014-06-23	Mid-Flood	Cloudy	Small Wave	CS4	Middle	11.2	2	2	18:24	26.8	7.7	18.6	5.84	4.08	2.7
TMCLKL	HY/2012/08	2014-06-23	Mid-Flood	Cloudy	Small Wave	CS4	Bottom	21.3	3	1	18:24	26.7	7.81	18.9	5.74	4.28	2.5
TMCLKL	HY/2012/08	2014-06-23	Mid-Flood	Cloudy	Small Wave	CS4	Bottom	21.3	3	2	18:24	26.6	7.82	18.8	5.71	4.3	2.2
TMCLKL	HY/2012/08	2014-06-23	Mid-Flood	Cloudy	Small Wave	CS6	Surface	1	1	1	15:12	27	7.64	18.4	6.17	3.64	2.8
TMCLKL	HY/2012/08	2014-06-23	Mid-Flood	Cloudy	Small Wave	CS6	Surface	1	1	2	15:12	27.1	7.64	18.5	6.15	3.66	2.4
TMCLKL	HY/2012/08	2014-06-23	Mid-Flood	Cloudy	Small Wave	CS6	Middle	7.7	2	1	15:12	26.9	7.81	18.7	6.07	3.78	3.1
TMCLKL	HY/2012/08	2014-06-23	Mid-Flood	Cloudy	Small Wave	CS6	Middle	7.7	2	2	15:12	26.8	7.8	18.8	6.11	3.8	2.2
TMCLKL	HY/2012/08	2014-06-23	Mid-Flood	Cloudy	Small Wave	CS6	Bottom	14.4	3	1	15:12	26.7	7.76	19	6.02	3.85	2.4
TMCLKL	HY/2012/08	2014-06-23	Mid-Flood	Cloudy	Small Wave	CS6	Bottom	14.4	3	2	15:12	26.6	7.78	18.9	6.05	3.87	3
TMCLKL	HY/2012/08	2014-06-23	Mid-Flood	Cloudy	Small Wave	IS12	Surface	1	1	1	17:36	27.1	7.74	18.5	6.25	3.72	2.6
TMCLKL	HY/2012/08	2014-06-23	Mid-Flood	Cloudy	Small Wave	IS12	Surface	1	1	2	17:36	27	7.76	18.4	6.23	3.74	4

Project	Works	Date	Tide	Weather	Sea Condition	Stat	Level	Water Depth	Lev_Cod	Replicate	Time	Temp(°C)	pH	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)
TMCLKL	HY/2012/08	2014-06-23	Mid-Flood	Cloudy	Small Wave	IS12	Middle	7.9	2	1	17:36	26.8	7.84	18.7	6.12	3.86	4.2
TMCLKL	HY/2012/08	2014-06-23	Mid-Flood	Cloudy	Small Wave	IS12	Middle	7.9	2	2	17:36	26.7	7.83	18.6	6.14	3.88	4.3
TMCLKL	HY/2012/08	2014-06-23	Mid-Flood	Cloudy	Small Wave	IS12	Bottom	14.7	3	1	17:36	26.6	7.68	18.9	6.01	3.94	2.8
TMCLKL	HY/2012/08	2014-06-23	Mid-Flood	Cloudy	Small Wave	IS12	Bottom	14.7	3	2	17:36	26	7.69	18.8	6.02	3.9	2.9
TMCLKL	HY/2012/08	2014-06-23	Mid-Flood	Cloudy	Small Wave	IS13	Surface	1	1	1	17:12	27.1	7.69	18.4	6.45	3.8	2.4
TMCLKL	HY/2012/08	2014-06-23	Mid-Flood	Cloudy	Small Wave	IS13	Surface	1	1	2	17:12	27	7.7	18.6	6.48	3.82	3.2
TMCLKL	HY/2012/08	2014-06-23	Mid-Flood	Cloudy	Small Wave	IS13	Middle	7.6	2	1	17:12	26.8	7.81	18.7	6.32	3.95	4.3
TMCLKL	HY/2012/08	2014-06-23	Mid-Flood	Cloudy	Small Wave	IS13	Middle	7.6	2	2	17:12	26.9	7.83	18.7	6.3	3.98	4.1
TMCLKL	HY/2012/08	2014-06-23	Mid-Flood	Cloudy	Small Wave	IS13	Bottom	14.2	3	1	17:12	26.6	7.76	18.9	6.23	4.02	3.3
TMCLKL	HY/2012/08	2014-06-23	Mid-Flood	Cloudy	Small Wave	IS13	Bottom	14.2	3	2	17:12	26.7	7.75	18.8	6.2	4	3.4
TMCLKL	HY/2012/08	2014-06-23	Mid-Flood	Cloudy	Small Wave	IS14	Surface	1	1	1	18:00	27.1	7.81	18.5	6.19	3.86	3.3
TMCLKL	HY/2012/08	2014-06-23	Mid-Flood	Cloudy	Small Wave	IS14	Surface	1	1	2	18:00	27	7.82	19.4	6.22	3.88	3.3
TMCLKL	HY/2012/08	2014-06-23	Mid-Flood	Cloudy	Small Wave	IS14	Middle	7.3	2	1	18:00	26.9	7.77	18.6	6.02	3.95	2.9
TMCLKL	HY/2012/08	2014-06-23	Mid-Flood	Cloudy	Small Wave	IS14	Middle	7.3	2	2	18:00	26.9	7.75	18.7	6.04	3.97	4.1
TMCLKL	HY/2012/08	2014-06-23	Mid-Flood	Cloudy	Small Wave	IS14	Bottom	13.6	3	1	18:00	26.7	7.63	18.9	5.6	4.03	3.3
TMCLKL	HY/2012/08	2014-06-23	Mid-Flood	Cloudy	Small Wave	IS14	Bottom	13.6	3	2	18:00	26.6	7.64	18.9	5.63	4.05	3.1
TMCLKL	HY/2012/08	2014-06-23	Mid-Flood	Cloudy	Small Wave	IS15	Surface	1	1	1	16:48	27.1	7.86	18.5	6.4	3.7	2.6
TMCLKL	HY/2012/08	2014-06-23	Mid-Flood	Cloudy	Small Wave	IS15	Surface	1	1	2	16:48	27	7.87	18.6	6.39	3.72	4.2
TMCLKL	HY/2012/08	2014-06-23	Mid-Flood	Cloudy	Small Wave	IS15	Middle	7.1	2	1	16:48	26.8	7.74	18.8	6.19	3.76	3.3
TMCLKL	HY/2012/08	2014-06-23	Mid-Flood	Cloudy	Small Wave	IS15	Middle	7.1	2	2	16:48	26.9	7.75	18.7	6.21	3.75	4.3
TMCLKL	HY/2012/08	2014-06-23	Mid-Flood	Cloudy	Small Wave	IS15	Bottom	13.2	3	1	16:48	26.7	7.7	18.9	6.12	3.37	3
TMCLKL	HY/2012/08	2014-06-23	Mid-Flood	Cloudy	Small Wave	IS15	Bottom	13.2	3	2	16:48	26.7	7.72	18.9	6.09	3.39	2.7
TMCLKL	HY/2012/08	2014-06-23	Mid-Flood	Cloudy	Small Wave	SR8	Surface	1	1	1	16:00	27.2	7.79	18.5	6.32	3.56	2.9
TMCLKL	HY/2012/08	2014-06-23	Mid-Flood	Cloudy	Small Wave	SR8	Surface	1	1	2	16:00	27.1	7.81	18.4	6.29	3.58	3.6
TMCLKL	HY/2012/08	2014-06-23	Mid-Flood	Cloudy	Small Wave	SR8	Middle		2	1	16:00						
TMCLKL	HY/2012/08	2014-06-23	Mid-Flood	Cloudy	Small Wave	SR8	Middle		2	2	16:00						
TMCLKL	HY/2012/08	2014-06-23	Mid-Flood	Cloudy	Small Wave	SR8	Bottom	4.1	3	1	16:00	26.9	7.69	18.7	6.19	3.65	3.5
TMCLKL	HY/2012/08	2014-06-23	Mid-Flood	Cloudy	Small Wave	SR8	Bottom	4.1	3	2	16:00	26.8	7.7	18.6	6.16	3.67	2
TMCLKL	HY/2012/08	2014-06-23	Mid-Flood	Cloudy	Small Wave	SR9	Surface	1	1	1	16:24	27	7.75	18.5	6.34	3.95	3.2
TMCLKL	HY/2012/08	2014-06-23	Mid-Flood	Cloudy	Small Wave	SR9	Surface	1	1	2	16:24	27.1	7.76	18.6	6.37	3.97	2.2
TMCLKL	HY/2012/08	2014-06-23	Mid-Flood	Cloudy	Small Wave	SR9	Middle		2	1	16:24						
TMCLKL	HY/2012/08	2014-06-23	Mid-Flood	Cloudy	Small Wave	SR9	Middle		2	2	16:24						
TMCLKL	HY/2012/08	2014-06-23	Mid-Flood	Cloudy	Small Wave	SR9	Bottom	4.3	3	1	16:24	26.9	7.69	18.7	6.22	4.03	2.7
TMCLKL	HY/2012/08	2014-06-23	Mid-Flood	Cloudy	Small Wave	SR9	Bottom	4.3	3	2	16:24	26.8	7.68	18.7	6.19	4.05	2.8
TMCLKL	HY/2012/08	2014-06-23	Mid-Flood	Cloudy	Small Wave	SR10A	Surface	1	1	1	15:36	27.1	7.73	18.5	6.25	3.75	2.8
TMCLKL	HY/2012/08	2014-06-23	Mid-Flood	Cloudy	Small Wave	SR10A	Surface	1	1	2	15:36	27.1	7.71	18.6	6.28	3.74	2.5
TMCLKL	HY/2012/08	2014-06-23	Mid-Flood	Cloudy	Small Wave	SR10A	Middle	7.4	2	1	15:36	26.8	7.84	18.7	6.15	3.86	2.3
TMCLKL	HY/2012/08	2014-06-23	Mid-Flood	Cloudy	Small Wave	SR10A	Middle	7.4	2	2	15:36	26.9	7.86	18.7	6.17	3.88	3.9
TMCLKL	HY/2012/08	2014-06-23	Mid-Flood	Cloudy	Small Wave	SR10A	Bottom	13.7	3	1	15:36	26.8	7.98	18.8	5.93	3.93	2.6
TMCLKL	HY/2012/08	2014-06-23	Mid-Flood	Cloudy	Small Wave	SR10A	Bottom	13.7	3	2	15:36	26.7	7.97	18.9	5.96	3.95	2.6
TMCLKL	HY/2012/08	2014-06-23	Mid-Ebb	Cloudy	Small Wave	CS4	Surface	1	1	1	08:44	27	7.65	18.6	6.26	4.03	3.7
TMCLKL	HY/2012/08	2014-06-23	Mid-Ebb	Cloudy	Small Wave	CS4	Surface	1	1	2	08:44	26.9	7.67	18.7	6.28	4.05	2.2
TMCLKL	HY/2012/08	2014-06-23	Mid-Ebb	Cloudy	Small Wave	CS4	Middle	11.1	2	1	08:44	26.8	7.73	18.7	5.74	4.14	2.6
TMCLKL	HY/2012/08	2014-06-23	Mid-Ebb	Cloudy	Small Wave	CS4	Middle	11.1	2	2	08:44	26.7	7.71	18.7	5.76	4.16	2.8
TMCLKL	HY/2012/08	2014-06-23	Mid-Ebb	Cloudy	Small Wave	CS4	Bottom	21.1	3	1	08:44	26.6	7.8	18.8	5.66	4.36	2.5
TMCLKL	HY/2012/08	2014-06-23	Mid-Ebb	Cloudy	Small Wave	CS4	Bottom	21.1	3	2	08:44	26.6	7.82	18.9	5.64	4.37	2.8
TMCLKL	HY/2012/08	2014-06-23	Mid-Ebb	Cloudy	Small Wave	CS6	Surface	1	1	1	11:55	27.1	7.63	18.5	6.09	3.72	3
TMCLKL	HY/2012/08	2014-06-23	Mid-Ebb	Cloudy	Small Wave	CS6	Surface	1	1	2	11:55	27	7.65	18.6	6.07	3.74	2.3
TMCLKL	HY/2012/08	2014-06-23	Mid-Ebb	Cloudy	Small Wave	CS6	Middle	7.6	2	1	11:55	26.9	7.82	18.7	6	3.86	2.5
TMCLKL	HY/2012/08	2014-06-23	Mid-Ebb	Cloudy	Small Wave	CS6	Middle	7.6	2	2	11:55	26.8	7.8	18.7	6.03	3.88	2.6
TMCLKL	HY/2012/08	2014-06-23	Mid-Ebb	Cloudy	Small Wave	CS6	Bottom	14.1	3	1	11:55	26.6	7.75	18.8	5.94	3.92	2.6
TMCLKL	HY/2012/08	2014-06-23	Mid-Ebb	Cloudy	Small Wave	CS6	Bottom	14.1	3	2	11:55	26.7	7.77	18.9	5.96	3.94	3
TMCLKL	HY/2012/08	2014-06-23	Mid-Ebb	Cloudy	Small Wave	IS12	Surface	1	1	1	09:32	27	7.75	18.5	6.17	3.8	2.7
TMCLKL	HY/2012/08	2014-06-23	Mid-Ebb	Cloudy	Small Wave	IS12	Surface	1	1	2	09:32	27	7.77	18.5	6.15	3.82	2.3
TMCLKL	HY/2012/08	2014-06-23	Mid-Ebb	Cloudy	Small Wave	IS12	Middle	7.8	2	1	09:32	26.9	7.83	18.6	6.04	3.94	3
TMCLKL	HY/2012/08	2014-06-23	Mid-Ebb	Cloudy	Small Wave	IS12	Middle	7.8	2	2	09:32	26.8	7.82	18.7	6.06	3.96	2.9
TMCLKL	HY/2012/08	2014-06-23	Mid-Ebb	Cloudy	Small Wave	IS12	Bottom	14.5	3	1	09:32	26.6	7.67	18.8	5.92	4.01	2.1
TMCLKL	HY/2012/08	2014-06-23	Mid-Ebb	Cloudy	Small Wave	IS12	Bottom	14.5	3	2	09:32	26.7	7.69	18.9	5.94	4.03	2.8

Project	Works	Date	Tide	Weather	Sea Condition	Stat	Level	Water Depth	Lev_Cod	Replicate	Time	Temp(°C)	pH	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)
TMCLKL	HY/2012/08	2014-06-23	Mid-Ebb	Cloudy	Small Wave	IS13	Surface	1	1	1	09:56	27	7.68	18.5	6.39	3.88	3
TMCLKL	HY/2012/08	2014-06-23	Mid-Ebb	Cloudy	Small Wave	IS13	Surface	1	1	2	09:56	26.9	7.7	18.6	6.37	3.9	2.6
TMCLKL	HY/2012/08	2014-06-23	Mid-Ebb	Cloudy	Small Wave	IS13	Middle	7.5	2	1	09:56	26.9	7.8	18.6	6.24	4.04	2.4
TMCLKL	HY/2012/08	2014-06-23	Mid-Ebb	Cloudy	Small Wave	IS13	Middle	7.5	2	2	09:56	26.8	7.82	18.7	6.22	4.06	2.3
TMCLKL	HY/2012/08	2014-06-23	Mid-Ebb	Cloudy	Small Wave	IS13	Bottom	14	3	1	09:56	26.7	7.73	18.7	6.15	4.11	2.5
TMCLKL	HY/2012/08	2014-06-23	Mid-Ebb	Cloudy	Small Wave	IS13	Bottom	14	3	2	09:56	26.6	7.75	18.8	6.13	4.09	2.9
TMCLKL	HY/2012/08	2014-06-23	Mid-Ebb	Cloudy	Small Wave	IS14	Surface	1	1	1	09:08	27.1	7.8	18.5	6.11	3.94	2.7
TMCLKL	HY/2012/08	2014-06-23	Mid-Ebb	Cloudy	Small Wave	IS14	Surface	1	1	2	09:08	27.1	7.83	18.6	6.13	3.96	3
TMCLKL	HY/2012/08	2014-06-23	Mid-Ebb	Cloudy	Small Wave	IS14	Middle	7.2	2	1	09:08	27	7.76	18.7	5.94	4.02	2.9
TMCLKL	HY/2012/08	2014-06-23	Mid-Ebb	Cloudy	Small Wave	IS14	Middle	7.2	2	2	09:08	26.9	7.74	18.8	5.96	4.04	2.3
TMCLKL	HY/2012/08	2014-06-23	Mid-Ebb	Cloudy	Small Wave	IS14	Bottom	13.3	3	1	09:08	26.6	7.63	18.8	5.53	4.11	2.3
TMCLKL	HY/2012/08	2014-06-23	Mid-Ebb	Cloudy	Small Wave	IS14	Bottom	13.3	3	2	09:08	26.7	7.65	18.9	5.55	4.13	4.3
TMCLKL	HY/2012/08	2014-06-23	Mid-Ebb	Cloudy	Small Wave	IS15	Surface	1	1	1	10:20	27.1	7.85	18.6	6.33	3.77	2.6
TMCLKL	HY/2012/08	2014-06-23	Mid-Ebb	Cloudy	Small Wave	IS15	Surface	1	1	2	10:20	27.2	7.87	18.7	6.31	3.79	3.9
TMCLKL	HY/2012/08	2014-06-23	Mid-Ebb	Cloudy	Small Wave	IS15	Middle	7	2	1	10:20	27	7.73	18.7	6.11	3.84	3.4
TMCLKL	HY/2012/08	2014-06-23	Mid-Ebb	Cloudy	Small Wave	IS15	Middle	7	2	2	10:20	26.9	7.76	18.8	6.13	3.82	2.8
TMCLKL	HY/2012/08	2014-06-23	Mid-Ebb	Cloudy	Small Wave	IS15	Bottom	12.9	3	1	10:20	26.7	7.69	18.9	6.04	3.95	4.1
TMCLKL	HY/2012/08	2014-06-23	Mid-Ebb	Cloudy	Small Wave	IS15	Bottom	12.9	3	2	10:20	26.8	7.71	18.8	6.02	3.97	3.4
TMCLKL	HY/2012/08	2014-06-23	Mid-Ebb	Cloudy	Small Wave	SR8	Surface	1	1	1	11:05	27.2	7.8	18.4	6.24	3.64	2.7
TMCLKL	HY/2012/08	2014-06-23	Mid-Ebb	Cloudy	Small Wave	SR8	Surface	1	1	2	11:05	27.2	7.82	18.4	6.22	3.66	2.9
TMCLKL	HY/2012/08	2014-06-23	Mid-Ebb	Cloudy	Small Wave	SR8	Middle		2	1	11:05						
TMCLKL	HY/2012/08	2014-06-23	Mid-Ebb	Cloudy	Small Wave	SR8	Middle		2	2	11:05						
TMCLKL	HY/2012/08	2014-06-23	Mid-Ebb	Cloudy	Small Wave	SR8	Bottom	4	3	1	11:05	26.8	7.68	18.8	6.11	3.72	2.7
TMCLKL	HY/2012/08	2014-06-23	Mid-Ebb	Cloudy	Small Wave	SR8	Bottom	4	3	2	11:05	26.8	7.7	18.7	6.08	3.74	2.9
TMCLKL	HY/2012/08	2014-06-23	Mid-Ebb	Cloudy	Small Wave	SR9	Surface	1	1	1	10:44	27	7.74	18.5	6.26	4.03	2.9
TMCLKL	HY/2012/08	2014-06-23	Mid-Ebb	Cloudy	Small Wave	SR9	Surface	1	1	2	10:44	27	7.76	18.5	6.28	4.05	3.2
TMCLKL	HY/2012/08	2014-06-23	Mid-Ebb	Cloudy	Small Wave	SR9	Middle		2	1	10:44						
TMCLKL	HY/2012/08	2014-06-23	Mid-Ebb	Cloudy	Small Wave	SR9	Middle		2	2	10:44						
TMCLKL	HY/2012/08	2014-06-23	Mid-Ebb	Cloudy	Small Wave	SR9	Bottom	4.1	3	1	10:44	26.8	7.68	18.6	6.14	4.11	2.6
TMCLKL	HY/2012/08	2014-06-23	Mid-Ebb	Cloudy	Small Wave	SR9	Bottom	4.1	3	2	10:44	26.7	7.66	18.7	6.12	4.13	3
TMCLKL	HY/2012/08	2014-06-23	Mid-Ebb	Cloudy	Small Wave	SR10A	Surface	1	1	1	11:29	27.2	7.74	18.4	6.17	3.83	2.6
TMCLKL	HY/2012/08	2014-06-23	Mid-Ebb	Cloudy	Small Wave	SR10A	Surface	1	1	2	11:29	27.1	7.72	18.5	6.19	3.81	4
TMCLKL	HY/2012/08	2014-06-23	Mid-Ebb	Cloudy	Small Wave	SR10A	Middle	7.3	2	1	11:29	26.9	7.83	18.6	6.06	3.94	2.1
TMCLKL	HY/2012/08	2014-06-23	Mid-Ebb	Cloudy	Small Wave	SR10A	Middle	7.3	2	2	11:29	27	7.85	18.7	6.08	3.96	2.6
TMCLKL	HY/2012/08	2014-06-23	Mid-Ebb	Cloudy	Small Wave	SR10A	Bottom	13.5	3	1	11:29	26.7	7.99	18.7	5.86	4.01	3.1
TMCLKL	HY/2012/08	2014-06-23	Mid-Ebb	Cloudy	Small Wave	SR10A	Bottom	13.5	3	2	11:29	26.8	7.97	18.8	5.88	4.03	2.4
TMCLKL	HY/2012/08	2014-06-25	Mid-Flood	Cloudy	Small Wave	CS4	Surface	1	1	1	19:45	27	7.79	16.8	6.2	3.91	1.9
TMCLKL	HY/2012/08	2014-06-25	Mid-Flood	Cloudy	Small Wave	CS4	Surface	1	1	2	19:45	27	7.78	16.7	6.18	3.93	2.4
TMCLKL	HY/2012/08	2014-06-25	Mid-Flood	Cloudy	Small Wave	CS4	Middle	11.3	2	1	19:45	26.7	7.8	17	5.81	3.9	3.3
TMCLKL	HY/2012/08	2014-06-25	Mid-Flood	Cloudy	Small Wave	CS4	Middle	11.3	2	2	19:45	26.8	7.8	16.9	5.84	3.91	2.9
TMCLKL	HY/2012/08	2014-06-25	Mid-Flood	Cloudy	Small Wave	CS4	Bottom	21.6	3	1	19:45	26.4	7.82	17.4	5.79	4	3.2
TMCLKL	HY/2012/08	2014-06-25	Mid-Flood	Cloudy	Small Wave	CS4	Bottom	21.6	3	2	19:45	26.5	7.81	17.4	5.76	4.95	3.4
TMCLKL	HY/2012/08	2014-06-25	Mid-Flood	Cloudy	Small Wave	CS6	Surface	1	1	1	17:05	27	7.76	16.7	6.34	3.81	4.2
TMCLKL	HY/2012/08	2014-06-25	Mid-Flood	Cloudy	Small Wave	CS6	Surface	1	1	2	17:05	27.1	7.8	16.8	6.36	3.8	3.7
TMCLKL	HY/2012/08	2014-06-25	Mid-Flood	Cloudy	Small Wave	CS6	Middle	7.5	2	1	17:05	26.8	7.81	16.9	6.3	3.96	3.6
TMCLKL	HY/2012/08	2014-06-25	Mid-Flood	Cloudy	Small Wave	CS6	Middle	7.5	2	2	17:05	26.9	7.84	17	6.27	4.02	3.8
TMCLKL	HY/2012/08	2014-06-25	Mid-Flood	Cloudy	Small Wave	CS6	Bottom	14	3	1	17:05	26.6	7.86	17.2	6.2	4.09	3.9
TMCLKL	HY/2012/08	2014-06-25	Mid-Flood	Cloudy	Small Wave	CS6	Bottom	14	3	2	17:05	26.7	7.9	17.3	6.25	4.08	4.2
TMCLKL	HY/2012/08	2014-06-25	Mid-Flood	Cloudy	Small Wave	IS12	Surface	1	1	1	19:12	27.1	7.79	16.9	6.09	3.96	2.9
TMCLKL	HY/2012/08	2014-06-25	Mid-Flood	Cloudy	Small Wave	IS12	Surface	1	1	2	19:12	27	7.78	16.9	6.17	4	2.8
TMCLKL	HY/2012/08	2014-06-25	Mid-Flood	Cloudy	Small Wave	IS12	Middle	7.7	2	1	19:12	26.7	7.83	17.1	6.1	3.8	2.6
TMCLKL	HY/2012/08	2014-06-25	Mid-Flood	Cloudy	Small Wave	IS12	Middle	7.7	2	2	19:12	26.8	7.84	17.1	6.11	3.75	2.9
TMCLKL	HY/2012/08	2014-06-25	Mid-Flood	Cloudy	Small Wave	IS12	Bottom	14.3	3	1	19:12	26.5	7.85	17.3	6.01	3.7	2.8
TMCLKL	HY/2012/08	2014-06-25	Mid-Flood	Cloudy	Small Wave	IS12	Bottom	14.3	3	2	19:12	26.5	7.85	17.4	6.02	3.69	2.9
TMCLKL	HY/2012/08	2014-06-25	Mid-Flood	Cloudy	Small Wave	IS13	Surface	1	1	1	18:54	27	7.72	16.8	6.36	3.99	2.5
TMCLKL	HY/2012/08	2014-06-25	Mid-Flood	Cloudy	Small Wave	IS13	Surface	1	1	2	18:54	26.9	7.69	16.7	6.37	3.98	2.3
TMCLKL	HY/2012/08	2014-06-25	Mid-Flood	Cloudy	Small Wave	IS13	Middle	7.4	2	1	18:54	26.8	7.79	16.9	6.2	3.86	2.9
TMCLKL	HY/2012/08	2014-06-25	Mid-Flood	Cloudy	Small Wave	IS13	Middle	7.4	2	2	18:54	26.7	7.8	17	6.23	3.87	2.8

Project	Works	Date	Tide	Weather	Sea Condition	Stat	Level	Water Depth	Lev_Cod	Replicate	Time	Temp(°C)	pH	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)
TMCLKL	HY/2012/08	2014-06-25	Mid-Flood	Cloudy	Small Wave	IS13	Bottom	13.7	3	1	18:54	26.5	7.83	17.3	6.13	4.13	3.6
TMCLKL	HY/2012/08	2014-06-25	Mid-Flood	Cloudy	Small Wave	IS13	Bottom	13.7	3	2	18:54	26.4	7.81	17.3	6.12	4.15	3.8
TMCLKL	HY/2012/08	2014-06-25	Mid-Flood	Cloudy	Small Wave	IS14	Surface	1	1	1	19:28	27.1	7.71	16.8	6.2	3.96	2.7
TMCLKL	HY/2012/08	2014-06-25	Mid-Flood	Cloudy	Small Wave	IS14	Surface	1	1	2	19:28	27.1	7.74	16.8	6.18	3.94	2.9
TMCLKL	HY/2012/08	2014-06-25	Mid-Flood	Cloudy	Small Wave	IS14	Middle	7.6	2	1	19:28	26.8	7.8	17	5.96	4	3.2
TMCLKL	HY/2012/08	2014-06-25	Mid-Flood	Cloudy	Small Wave	IS14	Middle	7.6	2	2	19:28	26.7	7.79	17.1	5.94	3.98	3.3
TMCLKL	HY/2012/08	2014-06-25	Mid-Flood	Cloudy	Small Wave	IS14	Bottom	14.1	3	1	19:28	26.7	7.82	17.3	5.67	4	3.1
TMCLKL	HY/2012/08	2014-06-25	Mid-Flood	Cloudy	Small Wave	IS14	Bottom	14.1	3	2	19:28	26.6	7.85	17.4	5.6	3.91	3.2
TMCLKL	HY/2012/08	2014-06-25	Mid-Flood	Cloudy	Small Wave	IS15	Surface	1	1	1	18:34	27.1	7.69	16.8	6.36	3.96	2.9
TMCLKL	HY/2012/08	2014-06-25	Mid-Flood	Cloudy	Small Wave	IS15	Surface	1	1	2	18:34	27	7.71	16.8	6.33	3.99	2.6
TMCLKL	HY/2012/08	2014-06-25	Mid-Flood	Cloudy	Small Wave	IS15	Middle	6.9	2	1	18:34	26.9	7.73	17	6.1	4	2.8
TMCLKL	HY/2012/08	2014-06-25	Mid-Flood	Cloudy	Small Wave	IS15	Middle	6.9	2	2	18:34	26.8	7.75	17.1	6.11	3.95	2.7
TMCLKL	HY/2012/08	2014-06-25	Mid-Flood	Cloudy	Small Wave	IS15	Bottom	12.8	3	1	18:34	26.7	7.81	17.3	6.06	4.09	2.7
TMCLKL	HY/2012/08	2014-06-25	Mid-Flood	Cloudy	Small Wave	IS15	Bottom	12.8	3	2	18:34	26.7	7.85	17.2	5.99	4.12	2.6
TMCLKL	HY/2012/08	2014-06-25	Mid-Flood	Cloudy	Small Wave	SR8	Surface	1	1	1	17:48	27	7.78	16.9	6.18	3.85	3.1
TMCLKL	HY/2012/08	2014-06-25	Mid-Flood	Cloudy	Small Wave	SR8	Surface	1	1	2	17:48	27	7.79	16.9	6.21	3.88	3.1
TMCLKL	HY/2012/08	2014-06-25	Mid-Flood	Cloudy	Small Wave	SR8	Middle		2	1	17:48						
TMCLKL	HY/2012/08	2014-06-25	Mid-Flood	Cloudy	Small Wave	SR8	Middle		2	2	17:48						
TMCLKL	HY/2012/08	2014-06-25	Mid-Flood	Cloudy	Small Wave	SR8	Bottom	4.6	3	1	17:48	26.7	7.83	17	6.05	3.96	3.9
TMCLKL	HY/2012/08	2014-06-25	Mid-Flood	Cloudy	Small Wave	SR8	Bottom	4.6	3	2	17:48	26.8	7.81	17.1	6.09	3.99	3.6
TMCLKL	HY/2012/08	2014-06-25	Mid-Flood	Cloudy	Small Wave	SR9	Surface	1	1	1	18:11	27	7.84	16.8	6.31	3.83	3.6
TMCLKL	HY/2012/08	2014-06-25	Mid-Flood	Cloudy	Small Wave	SR9	Surface	1	1	2	18:11	27	7.86	16.9	6.34	3.86	3.4
TMCLKL	HY/2012/08	2014-06-25	Mid-Flood	Cloudy	Small Wave	SR9	Middle		2	1	18:11						
TMCLKL	HY/2012/08	2014-06-25	Mid-Flood	Cloudy	Small Wave	SR9	Middle		2	2	18:11						
TMCLKL	HY/2012/08	2014-06-25	Mid-Flood	Cloudy	Small Wave	SR9	Bottom	4.4	3	1	18:11	26.7	7.86	17.1	6.1	3.99	4.5
TMCLKL	HY/2012/08	2014-06-25	Mid-Flood	Cloudy	Small Wave	SR9	Bottom	4.4	3	2	18:11	26.8	7.88	17.2	6.12	4.06	4.5
TMCLKL	HY/2012/08	2014-06-25	Mid-Flood	Cloudy	Small Wave	SR10A	Surface	1	1	1	17:26	27	7.8	16.7	6.36	3.96	3.1
TMCLKL	HY/2012/08	2014-06-25	Mid-Flood	Cloudy	Small Wave	SR10A	Surface	1	1	2	17:26	27.1	7.82	16.8	6.4	3.95	3.8
TMCLKL	HY/2012/08	2014-06-25	Mid-Flood	Cloudy	Small Wave	SR10A	Middle	7.8	2	1	17:26	26.8	7.86	16.9	6.2	4.07	4.5
TMCLKL	HY/2012/08	2014-06-25	Mid-Flood	Cloudy	Small Wave	SR10A	Middle	7.8	2	2	17:26	26.7	7.85	17.1	6.17	4.03	3.7
TMCLKL	HY/2012/08	2014-06-25	Mid-Flood	Cloudy	Small Wave	SR10A	Bottom	14.5	3	1	17:26	26.6	7.87	17.3	6.11	4.09	5.5
TMCLKL	HY/2012/08	2014-06-25	Mid-Flood	Cloudy	Small Wave	SR10A	Bottom	14.5	3	2	17:26	26.5	7.83	17.3	6.08	4.12	5.4
TMCLKL	HY/2012/08	2014-06-25	Mid-Ebb	Cloudy	Small Wave	CS4	Surface	1	1	1	10:12	27	7.81	16.9	6.11	4.02	2.2
TMCLKL	HY/2012/08	2014-06-25	Mid-Ebb	Cloudy	Small Wave	CS4	Surface	1	1	2	10:12	27.1	7.8	16.8	6.14	3.98	2.5
TMCLKL	HY/2012/08	2014-06-25	Mid-Ebb	Cloudy	Small Wave	CS4	Middle	11.2	2	1	10:12	26.8	7.83	17.1	5.78	3.97	2.5
TMCLKL	HY/2012/08	2014-06-25	Mid-Ebb	Cloudy	Small Wave	CS4	Middle	11.2	2	2	10:12	26.7	7.82	17.2	5.76	3.95	3.3
TMCLKL	HY/2012/08	2014-06-25	Mid-Ebb	Cloudy	Small Wave	CS4	Bottom	21.4	3	1	10:12	26.5	7.85	17.6	5.72	3.99	3.3
TMCLKL	HY/2012/08	2014-06-25	Mid-Ebb	Cloudy	Small Wave	CS4	Bottom	21.4	3	2	10:12	26.5	7.84	17.6	5.71	3.97	3.9
TMCLKL	HY/2012/08	2014-06-25	Mid-Ebb	Cloudy	Small Wave	CS6	Surface	1	1	1	13:24	27.1	7.8	16.9	6.28	3.93	4.4
TMCLKL	HY/2012/08	2014-06-25	Mid-Ebb	Cloudy	Small Wave	CS6	Surface	1	1	2	13:24	27.2	7.79	16.8	6.31	3.95	4.3
TMCLKL	HY/2012/08	2014-06-25	Mid-Ebb	Cloudy	Small Wave	CS6	Middle	7.4	2	1	13:24	26.8	7.82	17.1	6.24	4.12	4.4
TMCLKL	HY/2012/08	2014-06-25	Mid-Ebb	Cloudy	Small Wave	CS6	Middle	7.4	2	2	13:24	26.9	7.83	17.2	6.27	4.14	4.4
TMCLKL	HY/2012/08	2014-06-25	Mid-Ebb	Cloudy	Small Wave	CS6	Bottom	13.8	3	1	13:24	26.7	7.84	17.5	6.19	4.09	4.4
TMCLKL	HY/2012/08	2014-06-25	Mid-Ebb	Cloudy	Small Wave	CS6	Bottom	13.8	3	2	13:24	26.6	7.85	17.4	6.22	4.11	4.2
TMCLKL	HY/2012/08	2014-06-25	Mid-Ebb	Cloudy	Small Wave	IS12	Surface	1	1	1	11:00	27.2	7.81	17	6.16	4.1	2.7
TMCLKL	HY/2012/08	2014-06-25	Mid-Ebb	Cloudy	Small Wave	IS12	Surface	1	1	2	11:00	27.1	7.79	16.9	6.13	4.08	2.3
TMCLKL	HY/2012/08	2014-06-25	Mid-Ebb	Cloudy	Small Wave	IS12	Middle	7.6	2	1	11:00	26.8	7.81	17.3	6.07	3.77	3.1
TMCLKL	HY/2012/08	2014-06-25	Mid-Ebb	Cloudy	Small Wave	IS12	Middle	7.6	2	2	11:00	26.7	7.83	17.2	6.09	3.79	3.1
TMCLKL	HY/2012/08	2014-06-25	Mid-Ebb	Cloudy	Small Wave	IS12	Bottom	14.1	3	1	11:00	26.5	7.85	17.5	5.99	3.74	4.5
TMCLKL	HY/2012/08	2014-06-25	Mid-Ebb	Cloudy	Small Wave	IS12	Bottom	14.1	3	2	11:00	26.6	7.84	17.6	6.02	3.76	4
TMCLKL	HY/2012/08	2014-06-25	Mid-Ebb	Cloudy	Small Wave	IS13	Surface	1	1	1	11:24	27.1	7.81	16.9	6.32	4.11	3.8
TMCLKL	HY/2012/08	2014-06-25	Mid-Ebb	Cloudy	Small Wave	IS13	Surface	1	1	2	11:24	27.1	7.8	16.9	6.35	4.09	3.7
TMCLKL	HY/2012/08	2014-06-25	Mid-Ebb	Cloudy	Small Wave	IS13	Middle	7.2	2	1	11:24	26.6	7.83	17.1	6.15	3.99	4.1
TMCLKL	HY/2012/08	2014-06-25	Mid-Ebb	Cloudy	Small Wave	IS13	Middle	7.2	2	2	11:24	26.7	7.82	17.2	6.17	3.97	4.3
TMCLKL	HY/2012/08	2014-06-25	Mid-Ebb	Cloudy	Small Wave	IS13	Bottom	13.4	3	1	11:24	26.4	7.84	17.4	6.05	4.07	4.4
TMCLKL	HY/2012/08	2014-06-25	Mid-Ebb	Cloudy	Small Wave	IS13	Bottom	13.4	3	2	11:24	26.5	7.85	17.5	6.09	4.05	4.1
TMCLKL	HY/2012/08	2014-06-25	Mid-Ebb	Cloudy	Small Wave	IS14	Surface	1	1	1	10:36	27.1	7.8	16.8	6.11	4.02	3.4
TMCLKL	HY/2012/08	2014-06-25	Mid-Ebb	Cloudy	Small Wave	IS14	Surface	1	1	2	10:36	27.2	7.79	16.9	6.14	4.06	3.6



Project	Works	Date	Tide	Weather	Sea Condition	Stat	Level	Water Depth	Lev_Cod	Replicate	Time	Temp(°C)	pH	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)
TMCLKL	HY/2012/08	2014-06-25	Mid-Ebb	Cloudy	Small Wave	IS14	Middle	7.4	2	1	10:36	26.9	7.82	17.2	5.62	4.05	3.4
TMCLKL	HY/2012/08	2014-06-25	Mid-Ebb	Cloudy	Small Wave	IS14	Middle	7.4	2	2	10:36	26.8	7.81	17.2	5.65	4.03	3.9
TMCLKL	HY/2012/08	2014-06-25	Mid-Ebb	Cloudy	Small Wave	IS14	Bottom	13.8	3	1	10:36	26.7	7.82	17.6	5.44	3.93	3.9
TMCLKL	HY/2012/08	2014-06-25	Mid-Ebb	Cloudy	Small Wave	IS14	Bottom	13.8	3	2	10:36	26.7	7.82	17.5	5.46	3.95	3.6
TMCLKL	HY/2012/08	2014-06-25	Mid-Ebb	Cloudy	Small Wave	IS15	Surface	1	1	1	11:48	27.2	7.79	16.8	6.31	4.09	2.5
TMCLKL	HY/2012/08	2014-06-25	Mid-Ebb	Cloudy	Small Wave	IS15	Surface	1	1	2	11:48	27.1	7.8	16.9	6.29	4.05	2.9
TMCLKL	HY/2012/08	2014-06-25	Mid-Ebb	Cloudy	Small Wave	IS15	Middle	6.8	2	1	11:48	26.8	7.82	17.2	6.07	3.94	3.4
TMCLKL	HY/2012/08	2014-06-25	Mid-Ebb	Cloudy	Small Wave	IS15	Middle	6.8	2	2	11:48	26.9	7.84	17.2	6.1	3.96	3.5
TMCLKL	HY/2012/08	2014-06-25	Mid-Ebb	Cloudy	Small Wave	IS15	Bottom	12.6	3	1	11:48	26.8	7.84	17.5	5.92	4.18	3.9
TMCLKL	HY/2012/08	2014-06-25	Mid-Ebb	Cloudy	Small Wave	IS15	Bottom	12.6	3	2	11:48	26.7	7.85	17.4	5.9	4.2	4
TMCLKL	HY/2012/08	2014-06-25	Mid-Ebb	Cloudy	Small Wave	SR8	Surface	1	1	1	12:36	27.2	7.82	17	6.15	3.92	2.3
TMCLKL	HY/2012/08	2014-06-25	Mid-Ebb	Cloudy	Small Wave	SR8	Surface	1	1	2	12:36	27.1	7.81	16.9	6.18	3.9	2.6
TMCLKL	HY/2012/08	2014-06-25	Mid-Ebb	Cloudy	Small Wave	SR8	Middle		2	1	12:36						
TMCLKL	HY/2012/08	2014-06-25	Mid-Ebb	Cloudy	Small Wave	SR8	Middle		2	2	12:36						
TMCLKL	HY/2012/08	2014-06-25	Mid-Ebb	Cloudy	Small Wave	SR8	Bottom	4.4	3	1	12:36	26.8	7.84	17.2	6.04	4.05	3.3
TMCLKL	HY/2012/08	2014-06-25	Mid-Ebb	Cloudy	Small Wave	SR8	Bottom	4.4	3	2	12:36	26.9	7.83	17.2	6.05	4.04	3.4
TMCLKL	HY/2012/08	2014-06-25	Mid-Ebb	Cloudy	Small Wave	SR9	Surface	1	1	1	12:12	27.1	7.8	16.9	6.26	3.97	2.6
TMCLKL	HY/2012/08	2014-06-25	Mid-Ebb	Cloudy	Small Wave	SR9	Surface	1	1	2	12:12	27	7.81	17	6.24	3.95	2.8
TMCLKL	HY/2012/08	2014-06-25	Mid-Ebb	Cloudy	Small Wave	SR9	Middle		2	1	12:12						
TMCLKL	HY/2012/08	2014-06-25	Mid-Ebb	Cloudy	Small Wave	SR9	Middle		2	2	12:12						
TMCLKL	HY/2012/08	2014-06-25	Mid-Ebb	Cloudy	Small Wave	SR9	Bottom	4.2	3	1	12:12	26.8	7.83	17.3	6.09	4.11	2.7
TMCLKL	HY/2012/08	2014-06-25	Mid-Ebb	Cloudy	Small Wave	SR9	Bottom	4.2	3	2	12:12	26.8	7.82	17.2	6.12	4.13	2.8
TMCLKL	HY/2012/08	2014-06-25	Mid-Ebb	Cloudy	Small Wave	SR10A	Surface	1	1	1	13:00	27.1	7.81	16.8	6.33	4.09	2.1
TMCLKL	HY/2012/08	2014-06-25	Mid-Ebb	Cloudy	Small Wave	SR10A	Surface	1	1	2	13:00	27.1	7.8	16.9	6.35	4.07	1.7
TMCLKL	HY/2012/08	2014-06-25	Mid-Ebb	Cloudy	Small Wave	SR10A	Middle	7.6	2	1	13:00	26.9	7.83	17.2	6.12	4.15	2
TMCLKL	HY/2012/08	2014-06-25	Mid-Ebb	Cloudy	Small Wave	SR10A	Middle	7.6	2	2	13:00	26.8	7.82	17.1	6.15	4.17	2.1
TMCLKL	HY/2012/08	2014-06-25	Mid-Ebb	Cloudy	Small Wave	SR10A	Bottom	14.2	3	1	13:00	26.7	7.85	17.4	6.02	4.19	2.1
TMCLKL	HY/2012/08	2014-06-25	Mid-Ebb	Cloudy	Small Wave	SR10A	Bottom	14.2	3	2	13:00	26.7	7.84	17.4	6.06	4.17	2
TMCLKL	HY/2012/08	2014-06-27	Mid-Flood	Fine	Small Wave	CS4	Surface	1	1	1	21:07	29.5	7.89	15.7	5.5	5	2.4
TMCLKL	HY/2012/08	2014-06-27	Mid-Flood	Fine	Small Wave	CS4	Surface	1	1	2	21:07	29.4	7.9	15.6	5.47	4.94	2.7
TMCLKL	HY/2012/08	2014-06-27	Mid-Flood	Fine	Small Wave	CS4	Middle	11.1	2	1	21:07	29.4	7.91	15.8	5.45	5.2	2.2
TMCLKL	HY/2012/08	2014-06-27	Mid-Flood	Fine	Small Wave	CS4	Middle	11.1	2	2	21:07	29.4	7.92	15.8	5.39	5.16	3
TMCLKL	HY/2012/08	2014-06-27	Mid-Flood	Fine	Small Wave	CS4	Bottom	21.2	3	1	21:07	29.2	7.97	15.9	5.08	5.35	3
TMCLKL	HY/2012/08	2014-06-27	Mid-Flood	Fine	Small Wave	CS4	Bottom	21.2	3	2	21:07	29.3	7.98	15.8	5.11	5.37	2.3
TMCLKL	HY/2012/08	2014-06-27	Mid-Flood	Fine	Small Wave	CS6	Surface	1	1	1	18:26	29.4	7.89	15.7	5.76	5.1	2.8
TMCLKL	HY/2012/08	2014-06-27	Mid-Flood	Fine	Small Wave	CS6	Surface	1	1	2	18:26	29.5	7.9	15.6	5.78	5.06	3
TMCLKL	HY/2012/08	2014-06-27	Mid-Flood	Fine	Small Wave	CS6	Middle	5.1	2	1	18:26	29.3	7.93	15.7	5.8	5.38	2.5
TMCLKL	HY/2012/08	2014-06-27	Mid-Flood	Fine	Small Wave	CS6	Middle	5.1	2	2	18:26	29.3	7.95	15.8	5.81	5.32	2.9
TMCLKL	HY/2012/08	2014-06-27	Mid-Flood	Fine	Small Wave	CS6	Bottom	9.2	3	1	18:26	29.2	7.98	15.8	5.69	5.56	2.8
TMCLKL	HY/2012/08	2014-06-27	Mid-Flood	Fine	Small Wave	CS6	Bottom	9.2	3	2	18:26	29.3	7.99	15.8	5.72	5.54	3.6
TMCLKL	HY/2012/08	2014-06-27	Mid-Flood	Fine	Small Wave	IS12	Surface	1	1	1	20:27	29.4	7.96	15.6	5.87	5.08	5.2
TMCLKL	HY/2012/08	2014-06-27	Mid-Flood	Fine	Small Wave	IS12	Surface	1	1	2	20:27	29.5	7.97	15.6	5.9	5.02	4.6
TMCLKL	HY/2012/08	2014-06-27	Mid-Flood	Fine	Small Wave	IS12	Middle	7.7	2	1	20:27	29.4	7.98	15.7	6.01	5.36	4.9
TMCLKL	HY/2012/08	2014-06-27	Mid-Flood	Fine	Small Wave	IS12	Middle	7.7	2	2	20:27	29.3	7.99	15.8	6.04	5.32	5.2
TMCLKL	HY/2012/08	2014-06-27	Mid-Flood	Fine	Small Wave	IS12	Bottom	14.3	3	1	20:27	29.2	7.88	15.8	5.78	5.72	4.6
TMCLKL	HY/2012/08	2014-06-27	Mid-Flood	Fine	Small Wave	IS12	Bottom	14.3	3	2	20:27	29.3	7.87	15.9	5.79	5.75	4.7
TMCLKL	HY/2012/08	2014-06-27	Mid-Flood	Fine	Small Wave	IS13	Surface	1	1	1	20:07	29.5	7.81	15.6	5.7	5.38	4.2
TMCLKL	HY/2012/08	2014-06-27	Mid-Flood	Fine	Small Wave	IS13	Surface	1	1	2	20:07	29.5	7.83	15.7	5.74	5.4	5.5
TMCLKL	HY/2012/08	2014-06-27	Mid-Flood	Fine	Small Wave	IS13	Middle	5.7	2	1	20:07	29.4	7.78	15.7	5.5	5.52	5.3
TMCLKL	HY/2012/08	2014-06-27	Mid-Flood	Fine	Small Wave	IS13	Middle	5.7	2	2	20:07	29.3	7.8	15.8	5.53	5.54	4.5
TMCLKL	HY/2012/08	2014-06-27	Mid-Flood	Fine	Small Wave	IS13	Bottom	10.4	3	1	20:07	29.2	7.81	15.9	5.23	5.66	4.9
TMCLKL	HY/2012/08	2014-06-27	Mid-Flood	Fine	Small Wave	IS13	Bottom	10.4	3	2	20:07	29.3	7.8	15.8	5.25	5.68	4.9
TMCLKL	HY/2012/08	2014-06-27	Mid-Flood	Fine	Small Wave	IS14	Surface	1	1	1	20:47	29.5	7.71	15.6	5.5	5.28	4.5
TMCLKL	HY/2012/08	2014-06-27	Mid-Flood	Fine	Small Wave	IS14	Surface	1	1	2	20:47	29.4	7.72	15.7	5.52	5.3	4.7
TMCLKL	HY/2012/08	2014-06-27	Mid-Flood	Fine	Small Wave	IS14	Middle	9.1	2	1	20:47	29.3	7.79	15.7	5.59	5.63	5.1
TMCLKL	HY/2012/08	2014-06-27	Mid-Flood	Fine	Small Wave	IS14	Middle	9.1	2	2	20:47	29.4	7.78	15.8	5.65	5.65	4.9
TMCLKL	HY/2012/08	2014-06-27	Mid-Flood	Fine	Small Wave	IS14	Bottom	17.2	3	1	20:47	29.3	7.78	15.9	5.7	5.88	5.7
TMCLKL	HY/2012/08	2014-06-27	Mid-Flood	Fine	Small Wave	IS14	Bottom	17.2	3	2	20:47	29.3	7.79	15.8	5.74	5.9	5.2

Project	Works	Date	Tide	Weather	Sea Condition	Stat	Level	Water Depth	Lev_Cod	Replicate	Time	Temp(°C)	pH	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)
TMCLKL	HY/2012/08	2014-06-27	Mid-Flood	Fine	Small Wave	IS15	Surface	1	1	1	19:47	29.6	7.82	15.6	5.9	5.05	5.8
TMCLKL	HY/2012/08	2014-06-27	Mid-Flood	Fine	Small Wave	IS15	Surface	1	1	2	19:47	29.5	7.83	15.6	5.94	5.09	5.3
TMCLKL	HY/2012/08	2014-06-27	Mid-Flood	Fine	Small Wave	IS15	Middle	5.6	2	1	19:47	29.4	7.78	15.7	5.83	5.15	5.8
TMCLKL	HY/2012/08	2014-06-27	Mid-Flood	Fine	Small Wave	IS15	Middle	5.6	2	2	19:47	29.5	7.79	15.7	5.8	5.19	5.1
TMCLKL	HY/2012/08	2014-06-27	Mid-Flood	Fine	Small Wave	IS15	Bottom	10.2	3	1	19:47	29.2	7.79	15.8	5.37	5.54	5.9
TMCLKL	HY/2012/08	2014-06-27	Mid-Flood	Fine	Small Wave	IS15	Bottom	10.2	3	2	19:47	29.3	7.8	15.9	5.33	5.56	5.7
TMCLKL	HY/2012/08	2014-06-27	Mid-Flood	Fine	Small Wave	SR8	Surface	1	1	1	19:06	29.5	7.75	15.6	5.91	5.18	4.1
TMCLKL	HY/2012/08	2014-06-27	Mid-Flood	Fine	Small Wave	SR8	Surface	1	1	2	19:06	29.4	7.74	15.6	5.95	5.14	4.3
TMCLKL	HY/2012/08	2014-06-27	Mid-Flood	Fine	Small Wave	SR8	Middle		2	1	19:06						
TMCLKL	HY/2012/08	2014-06-27	Mid-Flood	Fine	Small Wave	SR8	Middle		2	2	19:06						
TMCLKL	HY/2012/08	2014-06-27	Mid-Flood	Fine	Small Wave	SR8	Bottom	3.5	3	1	19:06	29.4	7.78	15.9	5.79	5.28	4.2
TMCLKL	HY/2012/08	2014-06-27	Mid-Flood	Fine	Small Wave	SR8	Bottom	3.5	3	2	19:06	29.4	7.79	15.8	5.81	5.22	5
TMCLKL	HY/2012/08	2014-06-27	Mid-Flood	Fine	Small Wave	SR9	Surface	1	1	1	19:27	29.5	7.83	15.7	5.87	5.2	4.5
TMCLKL	HY/2012/08	2014-06-27	Mid-Flood	Fine	Small Wave	SR9	Surface	1	1	2	19:27	29.4	7.84	15.6	5.84	5.18	5.5
TMCLKL	HY/2012/08	2014-06-27	Mid-Flood	Fine	Small Wave	SR9	Middle		2	1	19:27						
TMCLKL	HY/2012/08	2014-06-27	Mid-Flood	Fine	Small Wave	SR9	Middle		2	2	19:27						
TMCLKL	HY/2012/08	2014-06-27	Mid-Flood	Fine	Small Wave	SR9	Bottom	3.2	3	1	19:27	29.3	7.89	15.8	5.46	5.38	4.4
TMCLKL	HY/2012/08	2014-06-27	Mid-Flood	Fine	Small Wave	SR9	Bottom	3.2	3	2	19:27	29.3	7.9	15.7	5.4	5.34	4.5
TMCLKL	HY/2012/08	2014-06-27	Mid-Flood	Fine	Small Wave	SR10A	Surface	1	1	1	18:46	29.6	7.85	15.6	5.77	4.95	4.2
TMCLKL	HY/2012/08	2014-06-27	Mid-Flood	Fine	Small Wave	SR10A	Surface	1	1	2	18:46	29.5	7.86	15.7	5.73	4.97	4.2
TMCLKL	HY/2012/08	2014-06-27	Mid-Flood	Fine	Small Wave	SR10A	Middle	6.1	2	1	18:46	29.5	7.91	15.7	5.85	5.14	4.7
TMCLKL	HY/2012/08	2014-06-27	Mid-Flood	Fine	Small Wave	SR10A	Middle	6.1	2	2	18:46	29.4	7.92	15.7	5.8	5.18	3.7
TMCLKL	HY/2012/08	2014-06-27	Mid-Flood	Fine	Small Wave	SR10A	Bottom	11.2	3	1	18:46	29.3	7.83	15.9	5.61	5.04	3.1
TMCLKL	HY/2012/08	2014-06-27	Mid-Flood	Fine	Small Wave	SR10A	Bottom	11.2	3	2	18:46	29.4	7.82	15.8	5.65	5.08	3.9
TMCLKL	HY/2012/08	2014-06-27	Mid-Ebb	Fine	Small Wave	CS4	Surface	1	1	1	11:27	29.4	7.88	15.7	5.42	5.07	3.9
TMCLKL	HY/2012/08	2014-06-27	Mid-Ebb	Fine	Small Wave	CS4	Surface	1	1	2	11:27	29.4	7.9	15.7	5.4	5.01	3.1
TMCLKL	HY/2012/08	2014-06-27	Mid-Ebb	Fine	Small Wave	CS4	Middle	11	2	1	11:27	29.4	7.92	15.8	5.37	5.29	3.2
TMCLKL	HY/2012/08	2014-06-27	Mid-Ebb	Fine	Small Wave	CS4	Middle	11	2	2	11:27	29.3	7.93	15.9	5.3	5.22	2.3
TMCLKL	HY/2012/08	2014-06-27	Mid-Ebb	Fine	Small Wave	CS4	Bottom	21	3	1	11:27	29.3	7.96	15.9	5.01	5.44	3
TMCLKL	HY/2012/08	2014-06-27	Mid-Ebb	Fine	Small Wave	CS4	Bottom	21	3	2	11:27	29.2	7.97	15.9	5.03	5.46	3.4
TMCLKL	HY/2012/08	2014-06-27	Mid-Ebb	Fine	Small Wave	CS6	Surface	1	1	1	14:38	29.5	7.9	15.6	5.68	5.17	2.9
TMCLKL	HY/2012/08	2014-06-27	Mid-Ebb	Fine	Small Wave	CS6	Surface	1	1	2	14:38	29.5	7.92	15.7	5.7	5.13	3
TMCLKL	HY/2012/08	2014-06-27	Mid-Ebb	Fine	Small Wave	CS6	Middle	5	2	1	14:38	29.4	7.94	15.7	5.72	5.46	2.8
TMCLKL	HY/2012/08	2014-06-27	Mid-Ebb	Fine	Small Wave	CS6	Middle	5	2	2	14:38	29.4	7.96	15.7	5.73	5.4	2.6
TMCLKL	HY/2012/08	2014-06-27	Mid-Ebb	Fine	Small Wave	CS6	Bottom	9	3	1	14:38	29.4	7.99	15.8	5.62	5.64	3.2
TMCLKL	HY/2012/08	2014-06-27	Mid-Ebb	Fine	Small Wave	CS6	Bottom	9	3	2	14:38	29.3	7.98	15.7	5.69	5.63	3.8
TMCLKL	HY/2012/08	2014-06-27	Mid-Ebb	Fine	Small Wave	IS12	Surface	1	1	1	12:10	29.5	7.97	15.6	5.8	5.16	4.2
TMCLKL	HY/2012/08	2014-06-27	Mid-Ebb	Fine	Small Wave	IS12	Surface	1	1	2	12:10	29.4	7.98	15.7	5.82	5.1	3.8
TMCLKL	HY/2012/08	2014-06-27	Mid-Ebb	Fine	Small Wave	IS12	Middle	7.5	2	1	12:10	29.3	7.99	15.8	5.93	5.44	2.8
TMCLKL	HY/2012/08	2014-06-27	Mid-Ebb	Fine	Small Wave	IS12	Middle	7.5	2	2	12:10	29.4	7.9	15.8	5.97	5.41	3.4
TMCLKL	HY/2012/08	2014-06-27	Mid-Ebb	Fine	Small Wave	IS12	Bottom	14	3	1	12:10	29.3	7.87	15.9	5.7	5.8	4.2
TMCLKL	HY/2012/08	2014-06-27	Mid-Ebb	Fine	Small Wave	IS12	Bottom	14	3	2	12:10	29.3	7.86	15.9	5.71	5.84	4.9
TMCLKL	HY/2012/08	2014-06-27	Mid-Ebb	Fine	Small Wave	IS13	Surface	1	1	1	12:30	29.5	7.8	15.6	5.62	5.46	3
TMCLKL	HY/2012/08	2014-06-27	Mid-Ebb	Fine	Small Wave	IS13	Surface	1	1	2	12:30	29.4	7.84	15.6	5.67	5.48	3.6
TMCLKL	HY/2012/08	2014-06-27	Mid-Ebb	Fine	Small Wave	IS13	Middle	5.6	2	1	12:30	29.4	7.77	15.8	5.41	5.6	3.3
TMCLKL	HY/2012/08	2014-06-27	Mid-Ebb	Fine	Small Wave	IS13	Middle	5.6	2	2	12:30	29.4	7.79	15.7	5.46	5.61	3
TMCLKL	HY/2012/08	2014-06-27	Mid-Ebb	Fine	Small Wave	IS13	Bottom	10.2	3	1	12:30	29.3	7.8	15.9	5.14	5.73	3
TMCLKL	HY/2012/08	2014-06-27	Mid-Ebb	Fine	Small Wave	IS13	Bottom	10.2	3	2	12:30	29.3	7.79	15.9	5.18	5.75	3.5
TMCLKL	HY/2012/08	2014-06-27	Mid-Ebb	Fine	Small Wave	IS14	Surface	1	1	1	11:50	29.4	7.7	15.7	5.42	5.36	2.2
TMCLKL	HY/2012/08	2014-06-27	Mid-Ebb	Fine	Small Wave	IS14	Surface	1	1	2	11:50	29.4	7.71	15.7	5.43	5.39	2.7
TMCLKL	HY/2012/08	2014-06-27	Mid-Ebb	Fine	Small Wave	IS14	Middle	9	2	1	11:50	29.4	7.78	15.8	5.52	5.71	3
TMCLKL	HY/2012/08	2014-06-27	Mid-Ebb	Fine	Small Wave	IS14	Middle	9	2	2	11:50	29.4	7.77	15.8	5.59	5.73	2.6
TMCLKL	HY/2012/08	2014-06-27	Mid-Ebb	Fine	Small Wave	IS14	Bottom	17	3	1	11:50	29.3	7.79	15.9	5.63	5.95	2.5
TMCLKL	HY/2012/08	2014-06-27	Mid-Ebb	Fine	Small Wave	IS14	Bottom	17	3	2	11:50	29.3	7.8	15.9	5.66	5.97	3
TMCLKL	HY/2012/08	2014-06-27	Mid-Ebb	Fine	Small Wave	IS15	Surface	1	1	1	12:50	29.5	7.81	15.6	5.82	5.14	3.2
TMCLKL	HY/2012/08	2014-06-27	Mid-Ebb	Fine	Small Wave	IS15	Surface	1	1	2	12:50	29.5	7.82	15.7	5.88	5.18	2
TMCLKL	HY/2012/08	2014-06-27	Mid-Ebb	Fine	Small Wave	IS15	Middle	5.5	2	1	12:50	29.4	7.79	15.7	5.75	5.23	3
TMCLKL	HY/2012/08	2014-06-27	Mid-Ebb	Fine	Small Wave	IS15	Middle	5.5	2	2	12:50	29.4	7.78	15.7	5.73	5.19	3.2

Project	Works	Date	Tide	Weather	Sea Condition	Stat	Level	Water Depth	Lev_Cod	Replicate	Time	Temp(°C)	pH	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)
TMCLKL	HY/2012/08	2014-06-27	Mid-Ebb	Fine	Small Wave	IS15	Bottom	10	3	1	12:50	29.3	7.8	15.8	5.29	5.62	3.2
TMCLKL	HY/2012/08	2014-06-27	Mid-Ebb	Fine	Small Wave	IS15	Bottom	10	3	2	12:50	29.3	7.81	15.8	5.24	5.64	3.6
TMCLKL	HY/2012/08	2014-06-27	Mid-Ebb	Fine	Small Wave	SR8	Surface	1	1	1	13:30	29.5	7.74	15.6	5.83	5.27	4.2
TMCLKL	HY/2012/08	2014-06-27	Mid-Ebb	Fine	Small Wave	SR8	Surface	1	1	2	13:30	29.5	7.73	15.7	5.89	5.2	3.4
TMCLKL	HY/2012/08	2014-06-27	Mid-Ebb	Fine	Small Wave	SR8	Middle		2	1	13:30						
TMCLKL	HY/2012/08	2014-06-27	Mid-Ebb	Fine	Small Wave	SR8	Middle		2	2	13:30						
TMCLKL	HY/2012/08	2014-06-27	Mid-Ebb	Fine	Small Wave	SR8	Bottom	3.2	3	1	13:30	29.3	7.77	15.9	5.71	5.36	3.5
TMCLKL	HY/2012/08	2014-06-27	Mid-Ebb	Fine	Small Wave	SR8	Bottom	3.2	3	2	13:30	29.4	7.78	15.8	5.73	5.3	2.7
TMCLKL	HY/2012/08	2014-06-27	Mid-Ebb	Fine	Small Wave	SR9	Surface	1	1	1	13:10	29.5	7.84	15.6	5.79	5.29	4.2
TMCLKL	HY/2012/08	2014-06-27	Mid-Ebb	Fine	Small Wave	SR9	Surface	1	1	2	13:10	29.5	7.85	15.6	5.76	5.24	4.4
TMCLKL	HY/2012/08	2014-06-27	Mid-Ebb	Fine	Small Wave	SR9	Middle		2	1	13:10						
TMCLKL	HY/2012/08	2014-06-27	Mid-Ebb	Fine	Small Wave	SR9	Middle		2	2	13:10						
TMCLKL	HY/2012/08	2014-06-27	Mid-Ebb	Fine	Small Wave	SR9	Bottom	3	3	1	13:10	29.3	7.9	15.7	5.38	5.47	3.4
TMCLKL	HY/2012/08	2014-06-27	Mid-Ebb	Fine	Small Wave	SR9	Bottom	3	3	2	13:10	29.4	7.91	15.7	5.3	5.41	4.4
TMCLKL	HY/2012/08	2014-06-27	Mid-Ebb	Fine	Small Wave	SR10A	Surface	1	1	1	14:05	29.6	7.86	15.6	5.69	5.02	5.4
TMCLKL	HY/2012/08	2014-06-27	Mid-Ebb	Fine	Small Wave	SR10A	Surface	1	1	2	14:05	29.5	7.87	15.6	5.64	5.03	5.9
TMCLKL	HY/2012/08	2014-06-27	Mid-Ebb	Fine	Small Wave	SR10A	Middle	6	2	1	14:05	29.4	7.9	15.7	5.77	5.22	6.7
TMCLKL	HY/2012/08	2014-06-27	Mid-Ebb	Fine	Small Wave	SR10A	Middle	6	2	2	14:05	29.5	7.92	15.7	5.71	5.29	6.3
TMCLKL	HY/2012/08	2014-06-27	Mid-Ebb	Fine	Small Wave	SR10A	Bottom	11	3	1	14:05	29.4	7.82	15.8	5.54	5.13	6.3
TMCLKL	HY/2012/08	2014-06-27	Mid-Ebb	Fine	Small Wave	SR10A	Bottom	11	3	2	14:05	29.4	7.81	15.9	5.58	5.16	5.7
TMCLKL	HY/2012/08	2014-06-30	Mid-Flood	Cloudy	Small Wave	CS4	Surface	1	1	1	09:23	26.9	7.7	18.2	6.21	3.6	3.4
TMCLKL	HY/2012/08	2014-06-30	Mid-Flood	Cloudy	Small Wave	CS4	Surface	1	1	2	09:23	26.8	7.69	18.3	6.24	3.64	3.2
TMCLKL	HY/2012/08	2014-06-30	Mid-Flood	Cloudy	Small Wave	CS4	Middle	11.2	2	1	09:23	26.7	7.71	18.3	6.19	3.96	2.3
TMCLKL	HY/2012/08	2014-06-30	Mid-Flood	Cloudy	Small Wave	CS4	Middle	11.2	2	2	09:23	26.7	7.73	18.3	6.21	3.99	2.4
TMCLKL	HY/2012/08	2014-06-30	Mid-Flood	Cloudy	Small Wave	CS4	Bottom	21.4	3	1	09:23	26.5	7.72	18.5	6.1	3.82	4.1
TMCLKL	HY/2012/08	2014-06-30	Mid-Flood	Cloudy	Small Wave	CS4	Bottom	21.4	3	2	09:23	26.5	7.74	18.5	6.08	3.84	3.1
TMCLKL	HY/2012/08	2014-06-30	Mid-Flood	Cloudy	Small Wave	CS6	Surface	1	1	1	07:28	26.9	7.73	18.1	6.14	3.4	2.8
TMCLKL	HY/2012/08	2014-06-30	Mid-Flood	Cloudy	Small Wave	CS6	Surface	1	1	2	07:28	26.9	7.74	18.2	6.18	3.46	2.3
TMCLKL	HY/2012/08	2014-06-30	Mid-Flood	Cloudy	Small Wave	CS6	Middle	7.9	2	1	07:28	26.7	7.82	18.3	5.98	3.69	2.6
TMCLKL	HY/2012/08	2014-06-30	Mid-Flood	Cloudy	Small Wave	CS6	Middle	7.9	2	2	07:28	26.8	7.83	18.3	5.96	3.66	2.7
TMCLKL	HY/2012/08	2014-06-30	Mid-Flood	Cloudy	Small Wave	CS6	Bottom	14.8	3	1	07:28	26.5	7.86	18.6	5.6	3.58	4.5
TMCLKL	HY/2012/08	2014-06-30	Mid-Flood	Cloudy	Small Wave	CS6	Bottom	14.8	3	2	07:28	26.5	7.87	18.5	5.64	3.5	2.1
TMCLKL	HY/2012/08	2014-06-30	Mid-Flood	Cloudy	Small Wave	IS12	Surface	1	1	1	08:49	27	7.72	18.2	6.16	3.79	3.5
TMCLKL	HY/2012/08	2014-06-30	Mid-Flood	Cloudy	Small Wave	IS12	Surface	1	1	2	08:49	26.9	7.73	18.2	6.14	3.74	4.4
TMCLKL	HY/2012/08	2014-06-30	Mid-Flood	Cloudy	Small Wave	IS12	Middle	8	2	1	08:49	26.7	7.76	18.3	5.9	3.57	4.3
TMCLKL	HY/2012/08	2014-06-30	Mid-Flood	Cloudy	Small Wave	IS12	Middle	8	2	2	08:49	26.7	7.77	18.3	5.94	3.51	3.6
TMCLKL	HY/2012/08	2014-06-30	Mid-Flood	Cloudy	Small Wave	IS12	Bottom	15	3	1	08:49	26.5	7.79	18.4	5.74	3.44	2.9
TMCLKL	HY/2012/08	2014-06-30	Mid-Flood	Cloudy	Small Wave	IS12	Bottom	15	3	2	08:49	26.5	7.8	18.5	5.76	3.48	3.6
TMCLKL	HY/2012/08	2014-06-30	Mid-Flood	Cloudy	Small Wave	IS13	Surface	1	1	1	08:36	26.9	7.79	18.2	6.09	3.51	3.7
TMCLKL	HY/2012/08	2014-06-30	Mid-Flood	Cloudy	Small Wave	IS13	Surface	1	1	2	08:36	26.9	7.8	18.1	6.11	3.5	4.4
TMCLKL	HY/2012/08	2014-06-30	Mid-Flood	Cloudy	Small Wave	IS13	Middle	7.7	2	1	08:36	26.7	7.84	18.3	5.84	3.62	3.2
TMCLKL	HY/2012/08	2014-06-30	Mid-Flood	Cloudy	Small Wave	IS13	Middle	7.7	2	2	08:36	26.7	7.86	18.3	5.88	3.64	4.3
TMCLKL	HY/2012/08	2014-06-30	Mid-Flood	Cloudy	Small Wave	IS13	Bottom	14.4	3	1	08:36	26.5	7.8	18.5	5.74	3.76	4
TMCLKL	HY/2012/08	2014-06-30	Mid-Flood	Cloudy	Small Wave	IS13	Bottom	14.4	3	2	08:36	26.6	7.82	18.5	5.76	3.78	3.8
TMCLKL	HY/2012/08	2014-06-30	Mid-Flood	Cloudy	Small Wave	IS14	Surface	1	1	1	09:03	26.9	7.79	18.3	6.03	3.33	2.7
TMCLKL	HY/2012/08	2014-06-30	Mid-Flood	Cloudy	Small Wave	IS14	Surface	1	1	2	09:03	26.9	7.8	18.3	6.07	3.39	2.9
TMCLKL	HY/2012/08	2014-06-30	Mid-Flood	Cloudy	Small Wave	IS14	Middle	7.4	2	1	09:03	26.7	7.7	18.3	5.88	3.46	3
TMCLKL	HY/2012/08	2014-06-30	Mid-Flood	Cloudy	Small Wave	IS14	Middle	7.4	2	2	09:03	26.6	7.74	18.3	5.82	3.4	3
TMCLKL	HY/2012/08	2014-06-30	Mid-Flood	Cloudy	Small Wave	IS14	Bottom	13.8	3	1	09:03	26.6	7.75	18.4	5.93	3.74	2.7
TMCLKL	HY/2012/08	2014-06-30	Mid-Flood	Cloudy	Small Wave	IS14	Bottom	13.8	3	2	09:03	26.5	7.77	18.5	5.91	3.71	2.4
TMCLKL	HY/2012/08	2014-06-30	Mid-Flood	Cloudy	Small Wave	IS15	Surface	1	1	1	08:23	26.9	7.84	18.2	6.17	3.46	2.4
TMCLKL	HY/2012/08	2014-06-30	Mid-Flood	Cloudy	Small Wave	IS15	Surface	1	1	2	08:23	26.9	7.86	18.2	6.2	3.61	2.9
TMCLKL	HY/2012/08	2014-06-30	Mid-Flood	Cloudy	Small Wave	IS15	Middle	7.2	2	1	08:23	26.8	7.88	18.3	6	3.7	3.1
TMCLKL	HY/2012/08	2014-06-30	Mid-Flood	Cloudy	Small Wave	IS15	Middle	7.2	2	2	08:23	26.7	7.89	18.4	6.02	3.74	4.4
TMCLKL	HY/2012/08	2014-06-30	Mid-Flood	Cloudy	Small Wave	IS15	Bottom	13.4	3	1	08:23	26.5	7.9	18.4	5.48	3.96	3.3
TMCLKL	HY/2012/08	2014-06-30	Mid-Flood	Cloudy	Small Wave	IS15	Bottom	13.4	3	2	08:23	26.5	7.91	18.5	5.5	3.99	3.1
TMCLKL	HY/2012/08	2014-06-30	Mid-Flood	Cloudy	Small Wave	SR8	Surface	1	1	1	07:56	27	7.78	18.1	6.07	3.42	3.6
TMCLKL	HY/2012/08	2014-06-30	Mid-Flood	Cloudy	Small Wave	SR8	Surface	1	1	2	07:56	27	7.79	18.1	6.03	3.46	2.8

Project	Works	Date	Tide	Weather	Sea Condition	Stat	Level	Water Depth	Lev_Cod	Replicate	Time	Temp(°C)	pH	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)
TMCLKL	HY/2012/08	2014-06-30	Mid-Flood	Cloudy	Small Wave	SR8	Middle		2	1	07:56						
TMCLKL	HY/2012/08	2014-06-30	Mid-Flood	Cloudy	Small Wave	SR8	Middle		2	2	07:56						
TMCLKL	HY/2012/08	2014-06-30	Mid-Flood	Cloudy	Small Wave	SR8	Bottom	4.2	3	1	07:56	26.5	7.79	18.4	5.94	3.69	2.6
TMCLKL	HY/2012/08	2014-06-30	Mid-Flood	Cloudy	Small Wave	SR8	Bottom	4.2	3	2	07:56	26.5	7.78	18.4	5.95	3.61	3.1
TMCLKL	HY/2012/08	2014-06-30	Mid-Flood	Cloudy	Small Wave	SR9	Surface	1	1	1	08:09	26.9	7.8	18.1	6.11	3.41	2.6
TMCLKL	HY/2012/08	2014-06-30	Mid-Flood	Cloudy	Small Wave	SR9	Surface	1	1	2	08:09	26.9	7.81	18.2	6.13	3.46	3.2
TMCLKL	HY/2012/08	2014-06-30	Mid-Flood	Cloudy	Small Wave	SR9	Middle		2	1	08:09						
TMCLKL	HY/2012/08	2014-06-30	Mid-Flood	Cloudy	Small Wave	SR9	Middle		2	2	08:09						
TMCLKL	HY/2012/08	2014-06-30	Mid-Flood	Cloudy	Small Wave	SR9	Bottom	4.8	3	1	08:09	26.6	7.87	18.4	6.03	3.86	2.9
TMCLKL	HY/2012/08	2014-06-30	Mid-Flood	Cloudy	Small Wave	SR9	Bottom	4.8	3	2	08:09	26.5	7.82	18.4	6.01	3.8	2.9
TMCLKL	HY/2012/08	2014-06-30	Mid-Flood	Cloudy	Small Wave	SR10A	Surface	1	1	1	07:42	26.7	7.77	18.2	6.2	3.22	2.6
TMCLKL	HY/2012/08	2014-06-30	Mid-Flood	Cloudy	Small Wave	SR10A	Surface	1	1	2	07:42	27	7.76	18.2	6.19	3.28	2.7
TMCLKL	HY/2012/08	2014-06-30	Mid-Flood	Cloudy	Small Wave	SR10A	Middle	7.4	2	1	07:42	26.7	7.76	18.3	5.99	3.45	2.7
TMCLKL	HY/2012/08	2014-06-30	Mid-Flood	Cloudy	Small Wave	SR10A	Middle	7.4	2	2	07:42	26.8	7.75	18.2	6.01	3.43	3
TMCLKL	HY/2012/08	2014-06-30	Mid-Flood	Cloudy	Small Wave	SR10A	Bottom	13.8	3	1	07:42	26.6	7.8	18.5	5.83	3.01	3.8
TMCLKL	HY/2012/08	2014-06-30	Mid-Flood	Cloudy	Small Wave	SR10A	Bottom	13.8	3	2	07:42	26.5	7.81	18.4	5.8	3.04	2.6
TMCLKL	HY/2012/08	2014-06-30	Mid-Ebb	Cloudy	Small Wave	CS4	Surface	1	1	1	13:10	27	7.66	18.1	6.03	3.74	3.4
TMCLKL	HY/2012/08	2014-06-30	Mid-Ebb	Cloudy	Small Wave	CS4	Surface	1	1	2	13:10	27	7.68	18.2	6.05	3.76	3.3
TMCLKL	HY/2012/08	2014-06-30	Mid-Ebb	Cloudy	Small Wave	CS4	Middle	11.1	2	1	13:10	26.8	7.72	18.3	5.8	3.94	3.1
TMCLKL	HY/2012/08	2014-06-30	Mid-Ebb	Cloudy	Small Wave	CS4	Middle	11.1	2	2	13:10	26.9	7.74	18.3	5.82	3.92	2.4
TMCLKL	HY/2012/08	2014-06-30	Mid-Ebb	Cloudy	Small Wave	CS4	Bottom	21.1	3	1	13:10	26.7	7.8	18.4	5.77	3.81	3.3
TMCLKL	HY/2012/08	2014-06-30	Mid-Ebb	Cloudy	Small Wave	CS4	Bottom	21.1	3	2	13:10	26.6	7.83	18.5	5.75	3.83	2.8
TMCLKL	HY/2012/08	2014-06-30	Mid-Ebb	Cloudy	Small Wave	CS6	Surface	1	1	1	16:33	27	7.77	18	6.06	3.72	3
TMCLKL	HY/2012/08	2014-06-30	Mid-Ebb	Cloudy	Small Wave	CS6	Surface	1	1	2	16:33	26.9	7.79	18.1	6.08	3.74	2.7
TMCLKL	HY/2012/08	2014-06-30	Mid-Ebb	Cloudy	Small Wave	CS6	Middle	7.6	2	1	16:33	26.9	7.63	18.2	6	3.81	3.4
TMCLKL	HY/2012/08	2014-06-30	Mid-Ebb	Cloudy	Small Wave	CS6	Middle	7.6	2	2	16:33	26.8	7.65	18.2	5.98	3.83	3.2
TMCLKL	HY/2012/08	2014-06-30	Mid-Ebb	Cloudy	Small Wave	CS6	Bottom	14.1	3	1	16:33	26.7	7.59	18.3	5.76	3.94	4.1
TMCLKL	HY/2012/08	2014-06-30	Mid-Ebb	Cloudy	Small Wave	CS6	Bottom	14.1	3	2	16:33	26.6	7.61	18.4	5.78	3.96	2.7
TMCLKL	HY/2012/08	2014-06-30	Mid-Ebb	Cloudy	Small Wave	IS12	Surface	1	1	1	13:53	26.9	7.81	18	6.19	3.5	3.2
TMCLKL	HY/2012/08	2014-06-30	Mid-Ebb	Cloudy	Small Wave	IS12	Surface	1	1	2	13:53	26.8	7.77	18	6.21	3.52	2.5
TMCLKL	HY/2012/08	2014-06-30	Mid-Ebb	Cloudy	Small Wave	IS12	Middle	7.8	2	1	13:53	26.7	7.73	18.1	6.13	3.66	4.1
TMCLKL	HY/2012/08	2014-06-30	Mid-Ebb	Cloudy	Small Wave	IS12	Middle	7.8	2	2	13:53	26.6	7.75	18.2	6.15	3.64	3.5
TMCLKL	HY/2012/08	2014-06-30	Mid-Ebb	Cloudy	Small Wave	IS12	Bottom	14.5	3	1	13:53	26.5	7.66	18.2	6	3.79	4.9
TMCLKL	HY/2012/08	2014-06-30	Mid-Ebb	Cloudy	Small Wave	IS12	Bottom	14.5	3	2	13:53	26.5	7.68	18.3	6.02	3.77	3.2
TMCLKL	HY/2012/08	2014-06-30	Mid-Ebb	Cloudy	Small Wave	IS13	Surface	1	1	1	14:14	27.1	7.63	18	6.39	3.86	4.5
TMCLKL	HY/2012/08	2014-06-30	Mid-Ebb	Cloudy	Small Wave	IS13	Surface	1	1	2	14:14	27.1	7.65	18	6.41	3.88	3.6
TMCLKL	HY/2012/08	2014-06-30	Mid-Ebb	Cloudy	Small Wave	IS13	Middle	7.5	2	1	14:14	26.9	7.72	18.1	6.26	3.93	5.4
TMCLKL	HY/2012/08	2014-06-30	Mid-Ebb	Cloudy	Small Wave	IS13	Middle	7.5	2	2	14:14	26.8	7.74	18.2	6.28	3.95	4.5
TMCLKL	HY/2012/08	2014-06-30	Mid-Ebb	Cloudy	Small Wave	IS13	Bottom	13.9	3	1	14:14	26.7	7.88	18.3	6.11	4.02	5.1
TMCLKL	HY/2012/08	2014-06-30	Mid-Ebb	Cloudy	Small Wave	IS13	Bottom	13.9	3	2	14:14	26.6	7.9	18.4	6.09	4.04	4.7
TMCLKL	HY/2012/08	2014-06-30	Mid-Ebb	Cloudy	Small Wave	IS14	Surface	1	1	1	13:31	27	7.73	18	6.13	3.69	3.3
TMCLKL	HY/2012/08	2014-06-30	Mid-Ebb	Cloudy	Small Wave	IS14	Surface	1	1	2	13:31	26.9	7.75	18.1	6.15	3.71	4.2
TMCLKL	HY/2012/08	2014-06-30	Mid-Ebb	Cloudy	Small Wave	IS14	Middle	7.1	2	1	13:31	26.8	7.63	18.2	5.99	3.84	4.3
TMCLKL	HY/2012/08	2014-06-30	Mid-Ebb	Cloudy	Small Wave	IS14	Middle	7.1	2	2	13:31	26.7	7.65	18.3	5.97	3.82	5.2
TMCLKL	HY/2012/08	2014-06-30	Mid-Ebb	Cloudy	Small Wave	IS14	Bottom	13.2	3	1	13:31	26.6	7.88	18.4	5.63	3.99	3.3
TMCLKL	HY/2012/08	2014-06-30	Mid-Ebb	Cloudy	Small Wave	IS14	Bottom	13.2	3	2	13:31	26.5	7.86	18.3	5.61	4.01	2.9
TMCLKL	HY/2012/08	2014-06-30	Mid-Ebb	Cloudy	Small Wave	IS15	Surface	1	1	1	14:35	27	7.83	18.1	6.26	3.64	4.6
TMCLKL	HY/2012/08	2014-06-30	Mid-Ebb	Cloudy	Small Wave	IS15	Surface	1	1	2	14:35	26.9	7.81	18.2	6.28	3.66	4.3
TMCLKL	HY/2012/08	2014-06-30	Mid-Ebb	Cloudy	Small Wave	IS15	Middle	7	2	1	14:35	26.8	7.69	18.3	6.13	3.72	3.2
TMCLKL	HY/2012/08	2014-06-30	Mid-Ebb	Cloudy	Small Wave	IS15	Middle	7	2	2	14:35	26.8	7.71	18.4	6.15	3.7	2.8
TMCLKL	HY/2012/08	2014-06-30	Mid-Ebb	Cloudy	Small Wave	IS15	Bottom	12.9	3	1	14:35	26.7	7.65	18.5	5.92	3.86	5.4
TMCLKL	HY/2012/08	2014-06-30	Mid-Ebb	Cloudy	Small Wave	IS15	Bottom	12.9	3	2	14:35	26.6	7.63	18.5	5.94	3.84	5.1
TMCLKL	HY/2012/08	2014-06-30	Mid-Ebb	Cloudy	Small Wave	SR8	Surface	1	1	1	15:19	27.1	7.66	18.1	6	3.55	3.4
TMCLKL	HY/2012/08	2014-06-30	Mid-Ebb	Cloudy	Small Wave	SR8	Surface	1	1	2	15:19	27	7.68	18.2	5.98	3.53	3
TMCLKL	HY/2012/08	2014-06-30	Mid-Ebb	Cloudy	Small Wave	SR8	Middle		2	1	15:19						
TMCLKL	HY/2012/08	2014-06-30	Mid-Ebb	Cloudy	Small Wave	SR8	Middle		2	2	15:19						
TMCLKL	HY/2012/08	2014-06-30	Mid-Ebb	Cloudy	Small Wave	SR8	Bottom	3.9	3	1	15:19	26.5	7.72	18.3	5.85	3.66	3.1
TMCLKL	HY/2012/08	2014-06-30	Mid-Ebb	Cloudy	Small Wave	SR8	Bottom	3.9	3	2	15:19	26.7	7.74	18.2	5.87	3.68	2.6



Project	Works	Date	Tide	Weather	Sea Condition	Stat	Level	Water Depth	Lev_Cod	Replicate	Time	Temp(°C)	pH	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)
TMCLKL	HY/2012/08	2014-06-30	Mid-Ebb	Cloudy	Small Wave	SR9	Surface	1	1	1	14:58	27	7.75	18	6.32	3.55	4
TMCLKL	HY/2012/08	2014-06-30	Mid-Ebb	Cloudy	Small Wave	SR9	Surface	1	1	2	14:58	27.1	7.73	18.1	6.3	3.57	4.1
TMCLKL	HY/2012/08	2014-06-30	Mid-Ebb	Cloudy	Small Wave	SR9	Middle		2	1	14:58						
TMCLKL	HY/2012/08	2014-06-30	Mid-Ebb	Cloudy	Small Wave	SR9	Middle		2	2	14:58						
TMCLKL	HY/2012/08	2014-06-30	Mid-Ebb	Cloudy	Small Wave	SR9	Bottom	4.1	3	1	14:58	26.6	7.81	18.2	6.24	3.63	5
TMCLKL	HY/2012/08	2014-06-30	Mid-Ebb	Cloudy	Small Wave	SR9	Bottom	4.1	3	2	14:58	26.7	7.83	18.3	6.22	3.65	4.8
TMCLKL	HY/2012/08	2014-06-30	Mid-Ebb	Cloudy	Small Wave	SR10A	Surface	1	1	1	16:00	27	7.83	18	6.16	3.69	2.6
TMCLKL	HY/2012/08	2014-06-30	Mid-Ebb	Cloudy	Small Wave	SR10A	Surface	1	1	2	16:00	27	7.81	18	6.18	3.67	4
TMCLKL	HY/2012/08	2014-06-30	Mid-Ebb	Cloudy	Small Wave	SR10A	Middle	7.3	2	1	16:00	26.9	7.66	18.1	6.09	3.76	2.2
TMCLKL	HY/2012/08	2014-06-30	Mid-Ebb	Cloudy	Small Wave	SR10A	Middle	7.3	2	2	16:00	26.8	7.67	18.2	6.11	3.78	3.9
TMCLKL	HY/2012/08	2014-06-30	Mid-Ebb	Cloudy	Small Wave	SR10A	Bottom	13.5	3	1	16:00	26.6	7.83	18.3	5.94	3.83	4.7
TMCLKL	HY/2012/08	2014-06-30	Mid-Ebb	Cloudy	Small Wave	SR10A	Bottom	13.5	3	2	16:00	26.7	7.85	18.4	5.92	3.85	3.9

Appendix J

## Impact Dolphin Monitoring Survey

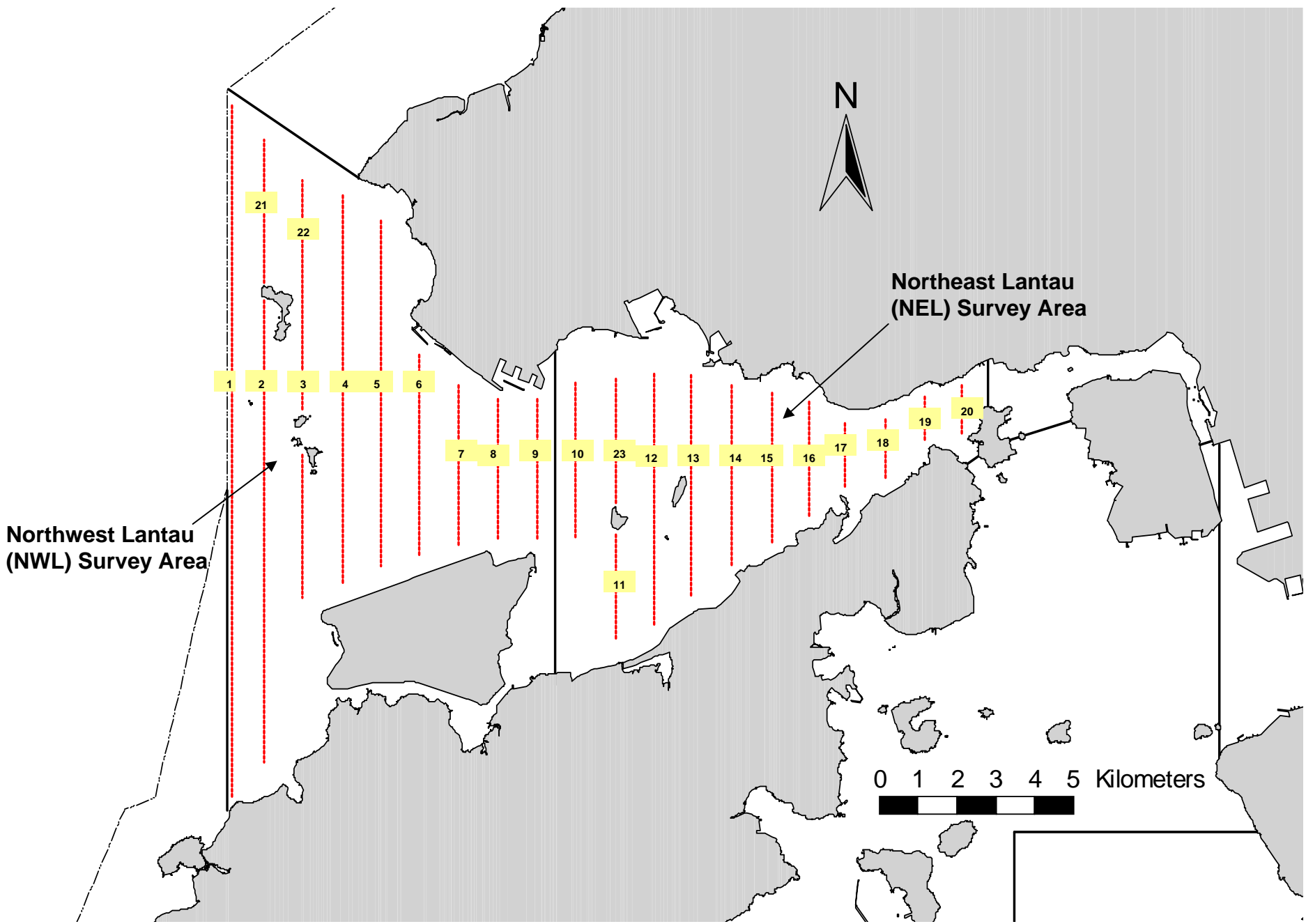


Figure 1. Transect Line Layout in Northwest and Northeast Lantau Survey Areas

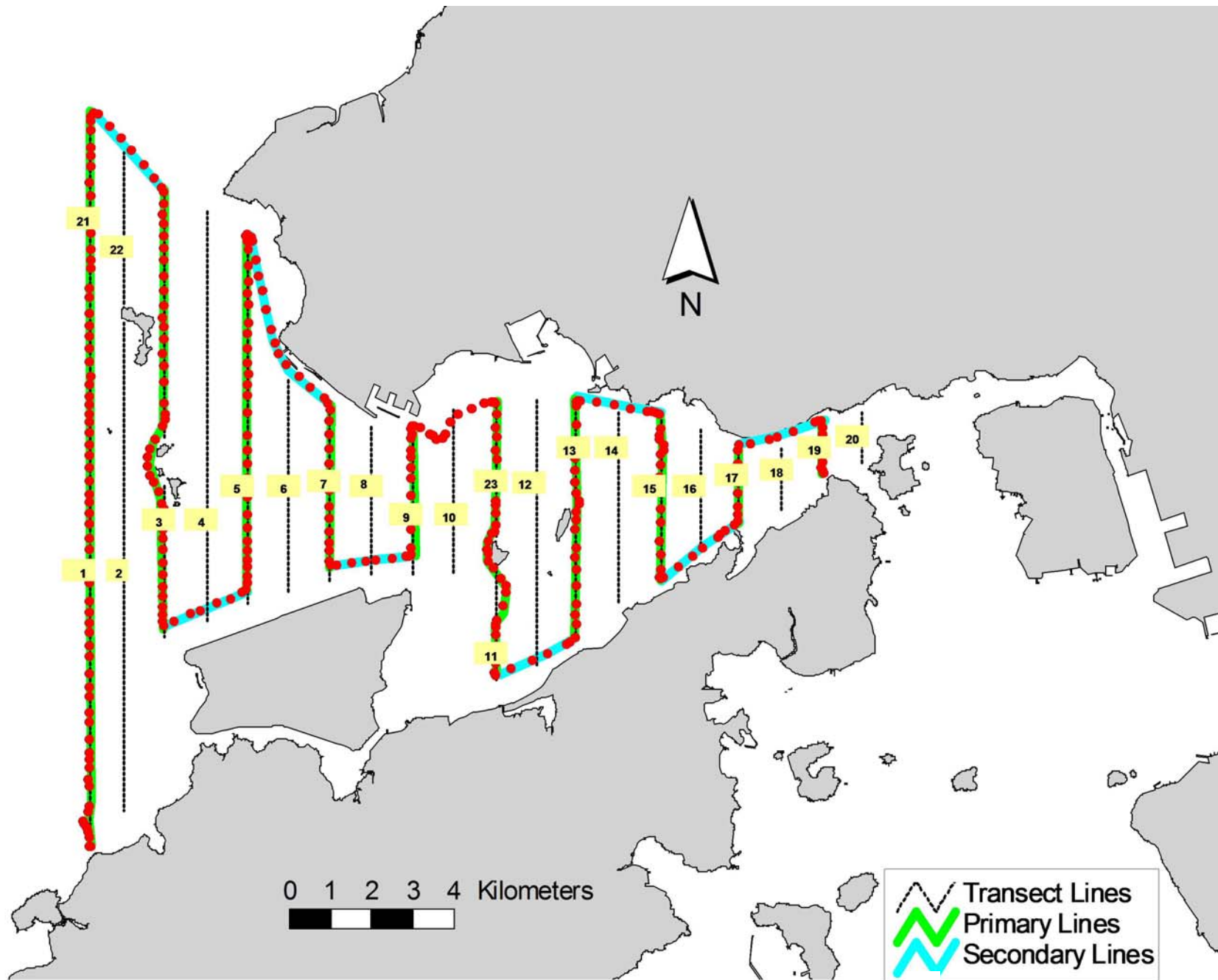


Figure 2. Survey Route on June 3<sup>rd</sup>, 2014 (from HKLR03 project)

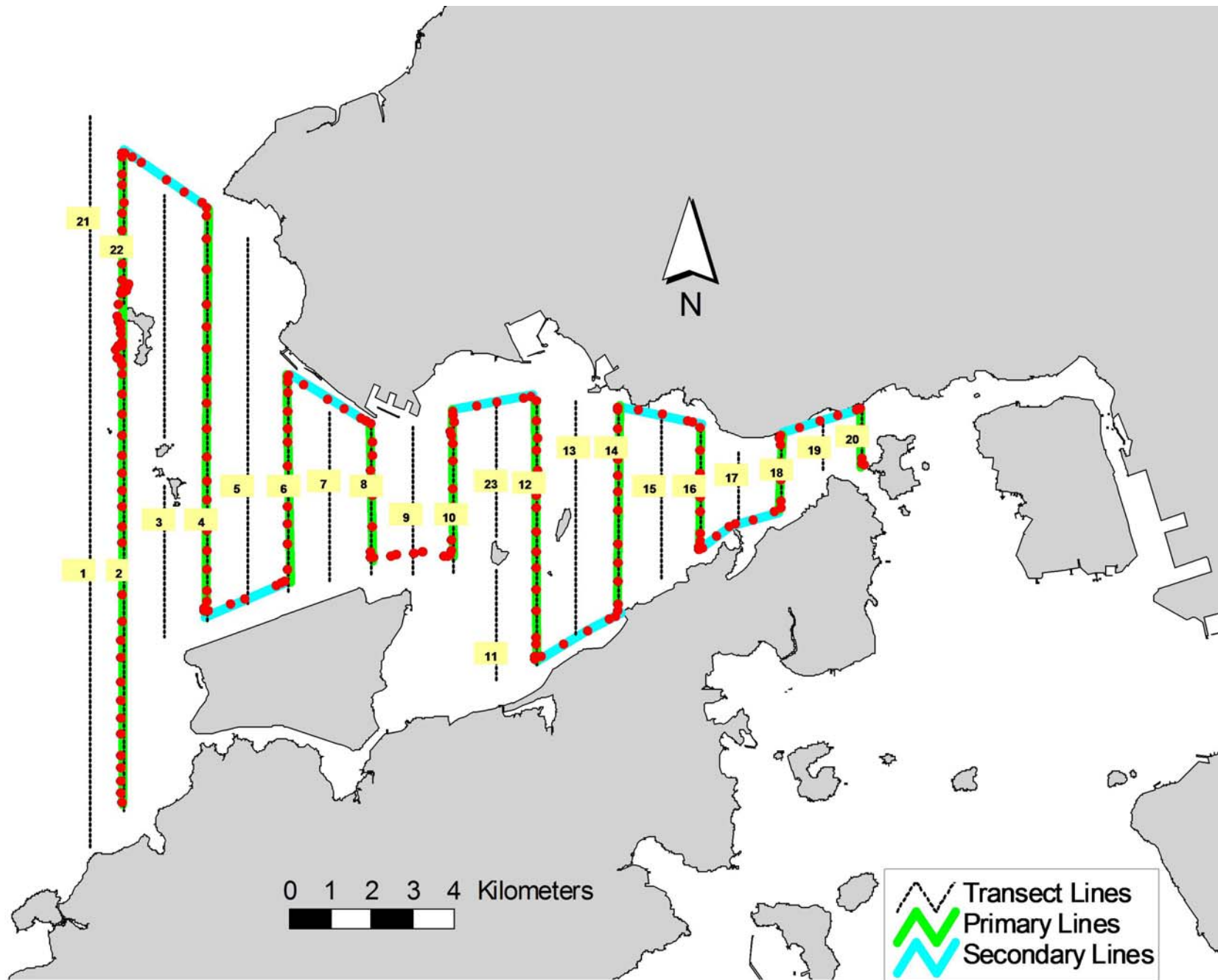


Figure 3. Survey Route on June 5<sup>th</sup>, 2014 (from HKLR03 project)

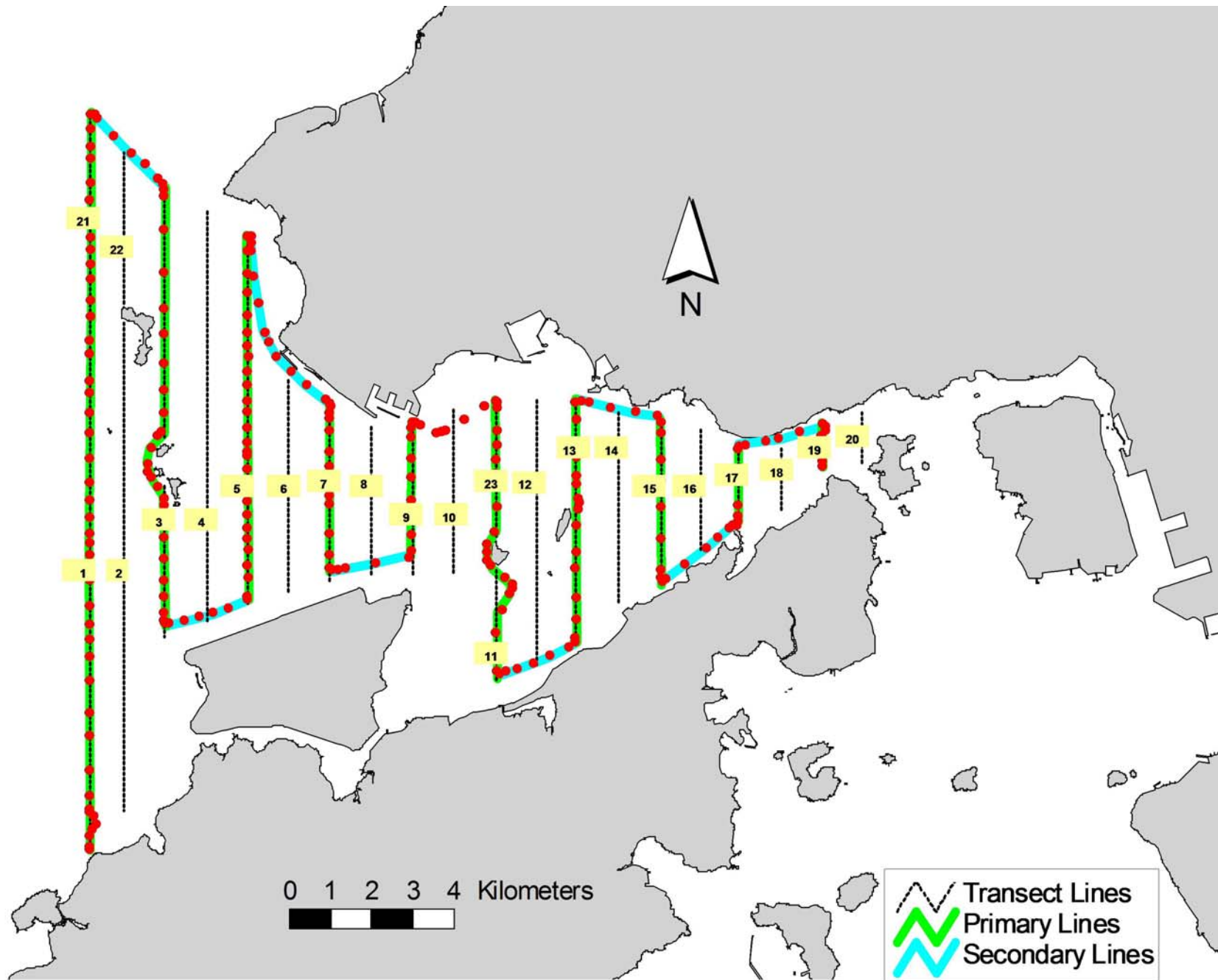


Figure 4. Survey Route on June 10<sup>th</sup>, 2014 (from HKLR03 project)

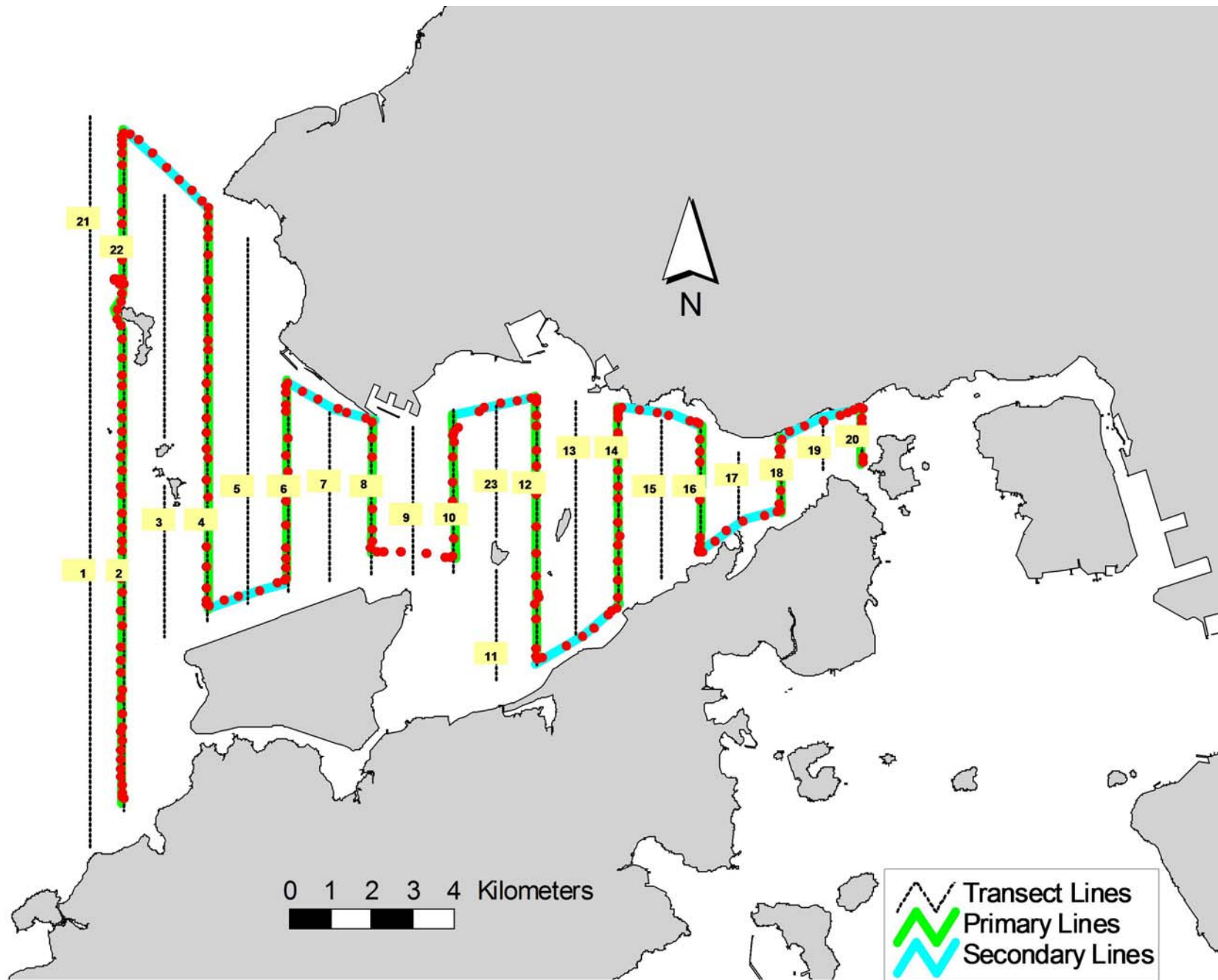


Figure 5. Survey Route on June 16<sup>th</sup>, 2014 (from HKLR03 project)



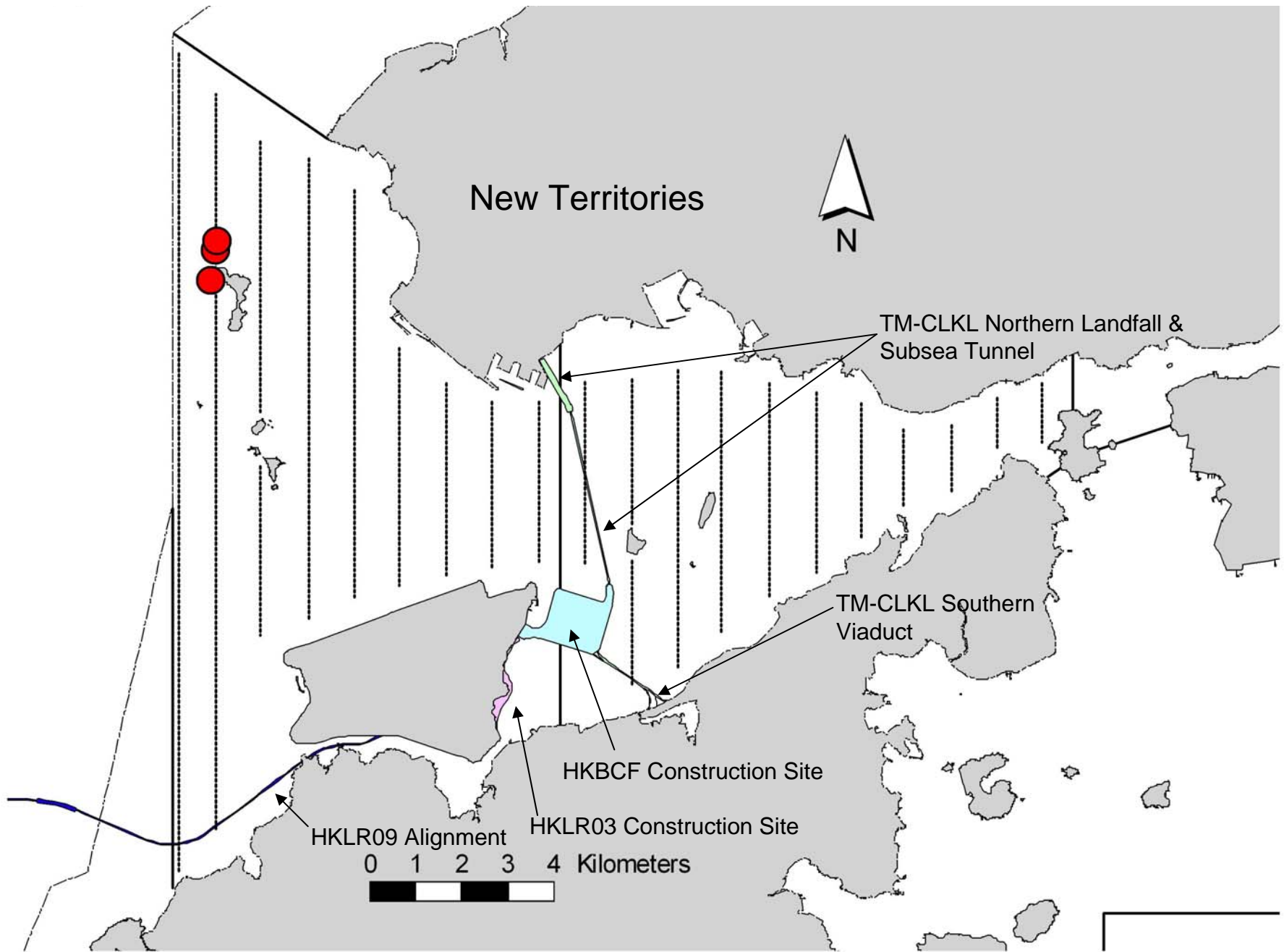


Figure 6. Distribution of Chinese White Dolphin Sightings During June 2014 HKLR03 Monitoring Surveys



## Appendix I. HKLR03 Survey Effort Database (June 2014)

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

DATE	AREA	BEAU	EFFORT	SEASON	VESSEL	TYPE	P/S
3-Jun-14	NE LANTAU	2	14.31	SUMMER	STANDARD31516	HKLR	P
3-Jun-14	NE LANTAU	3	2.60	SUMMER	STANDARD31516	HKLR	P
3-Jun-14	NE LANTAU	2	10.89	SUMMER	STANDARD31516	HKLR	S
3-Jun-14	NW LANTAU	2	6.52	SUMMER	STANDARD31516	HKLR	P
3-Jun-14	NW LANTAU	3	23.00	SUMMER	STANDARD31516	HKLR	P
3-Jun-14	NW LANTAU	4	10.70	SUMMER	STANDARD31516	HKLR	P
3-Jun-14	NW LANTAU	2	3.78	SUMMER	STANDARD31516	HKLR	S
3-Jun-14	NW LANTAU	3	9.70	SUMMER	STANDARD31516	HKLR	S
5-Jun-14	NE LANTAU	1	5.65	SUMMER	STANDARD31516	HKLR	P
5-Jun-14	NE LANTAU	2	10.52	SUMMER	STANDARD31516	HKLR	P
5-Jun-14	NE LANTAU	3	4.20	SUMMER	STANDARD31516	HKLR	P
5-Jun-14	NE LANTAU	1	2.20	SUMMER	STANDARD31516	HKLR	S
5-Jun-14	NE LANTAU	2	6.23	SUMMER	STANDARD31516	HKLR	S
5-Jun-14	NE LANTAU	3	2.10	SUMMER	STANDARD31516	HKLR	S
5-Jun-14	NW LANTAU	2	13.90	SUMMER	STANDARD31516	HKLR	P
5-Jun-14	NW LANTAU	3	16.56	SUMMER	STANDARD31516	HKLR	P
5-Jun-14	NW LANTAU	2	3.70	SUMMER	STANDARD31516	HKLR	S
5-Jun-14	NW LANTAU	3	3.61	SUMMER	STANDARD31516	HKLR	S
10-Jun-14	NW LANTAU	2	6.21	SUMMER	STANDARD31516	HKLR	P
10-Jun-14	NW LANTAU	3	31.70	SUMMER	STANDARD31516	HKLR	P
10-Jun-14	NW LANTAU	4	2.50	SUMMER	STANDARD31516	HKLR	P
10-Jun-14	NW LANTAU	2	9.29	SUMMER	STANDARD31516	HKLR	S
10-Jun-14	NW LANTAU	3	4.10	SUMMER	STANDARD31516	HKLR	S
10-Jun-14	NE LANTAU	2	12.34	SUMMER	STANDARD31516	HKLR	P
10-Jun-14	NE LANTAU	3	3.50	SUMMER	STANDARD31516	HKLR	P
10-Jun-14	NE LANTAU	2	10.53	SUMMER	STANDARD31516	HKLR	S
10-Jun-14	NE LANTAU	3	0.73	SUMMER	STANDARD31516	HKLR	S
16-Jun-14	NW LANTAU	2	3.11	SUMMER	STANDARD31516	HKLR	P
16-Jun-14	NW LANTAU	3	13.98	SUMMER	STANDARD31516	HKLR	P
16-Jun-14	NW LANTAU	4	14.31	SUMMER	STANDARD31516	HKLR	P
16-Jun-14	NW LANTAU	3	4.28	SUMMER	STANDARD31516	HKLR	S
16-Jun-14	NW LANTAU	4	3.43	SUMMER	STANDARD31516	HKLR	S
16-Jun-14	NE LANTAU	1	1.40	SUMMER	STANDARD31516	HKLR	P
16-Jun-14	NE LANTAU	2	18.35	SUMMER	STANDARD31516	HKLR	P
16-Jun-14	NE LANTAU	1	0.30	SUMMER	STANDARD31516	HKLR	S
16-Jun-14	NE LANTAU	2	10.55	SUMMER	STANDARD31516	HKLR	S

## Appendix II. HKLR03 Chinese White Dolphin Sighting Database (June 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
05-Jun-14	1	1400	3	NW LANTAU	3	184	ON	HKLR	827350	805448	SUMMER	NONE	P
05-Jun-14	2	1413	3	NW LANTAU	3	20	ON	HKLR	826719	805344	SUMMER	NONE	S
16-Jun-14	1	1408	1	NW LANTAU	3	ND	OFF	HKLR	827538	805459	SUMMER	NONE	

**Appendix III. Individual dolphins identified during HKLR03 monitoring surveys in June 2014**

<b>ID#</b>	<b>DATE</b>	<b>STG#</b>	<b>AREA</b>
NL272	05/06/14	1	NW LANTAU
NL136	05/06/14	2	NW LANTAU
NL272	05/06/14	2	NW LANTAU

NL136\_20140605\_2



NL272\_20140605\_1



NL272\_20140605\_2



Appendix K

## Event and Action Plan

**Event and Action Plan for Impact Air Monitoring**

Action Level	Action			
	ET (a)	IEC (a)	SOR (a)	Contractor(s)
Exceedance recorded	<ol style="list-style-type: none"> <li>1. Identify the source.</li> <li>2. Repeat measurement to confirm finding. If two consecutive measurements exceed Action Level, the exceedance is then confirmed.</li> <li>3. Inform the IEC and the SOR.</li> <li>4. Investigate the cause of exceedance and check Contractor's working procedures to determine possible mitigation to be implemented.</li> <li>5. If the exceedance is confirmed to be Project related after investigation, increase monitoring frequency to daily.</li> <li>6. Discuss with the IEC and the Contractor on remedial actions required.</li> <li>7. If exceedance continues, arrange meeting with the IEC and the SOR.</li> <li>8. If exceedance stops, cease additional monitoring.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check monitoring data submitted by the ET.</li> <li>2. Check the Contractor's working method.</li> <li>3. If the exceedance is confirmed to be Project related after investigation, discuss with the ET and the Contractor on possible remedial measures.</li> <li>4. Advise the SOR on the effectiveness of the proposed remedial measures.</li> <li>5. Supervisor implementation of remedial measures.</li> </ol>	<ol style="list-style-type: none"> <li>1. Confirm receipt of notification of failure in writing.</li> <li>2. Notify the Contractor.</li> <li>3. Ensure remedial measures properly implemented.</li> </ol>	<ol style="list-style-type: none"> <li>1. Rectify any unacceptable practice</li> <li>2. Amend working methods if appropriate</li> <li>3. If the exceedance is confirmed to be Project related, submit proposals for remedial actions to IEC within 3 working days of notification</li> <li>4. Implement the agreed proposals</li> <li>5. Amend proposal if appropriate</li> </ol>

	Action			
	ET (a)	IEC (a)	SOR (a)	Contractor(s)
<b>Limit Level</b>				
Exceedance recorded	<ol style="list-style-type: none"> <li>1. Identify the source.</li> <li>2. Repeat measurement to confirm finding. If two consecutive measurements exceed Limit Level, the exceedance is then confirmed.</li> <li>3. Inform the IEC, the SOR, the DEP and the Contractor.</li> <li>4. Investigate the cause of exceedance and check Contractor's working procedures to determine possible mitigation to be implemented.</li> <li>5. If the exceedance is confirmed to be Project related after investigation, increase monitoring frequency to daily.</li> <li>6. Carry out analysis of the Contractor's working procedures to determine possible mitigation to be implemented.</li> <li>7. Arrange meeting with the IEC and the SOR to discuss the remedial actions to be taken.</li> <li>8. Assess effectiveness of the Contractor's remedial actions and keep the IEC, the DEP and the SOR informed of the results.</li> <li>9. If exceedance stops, cease additional monitoring.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check monitoring data submitted by the ET.</li> <li>2. Check Contractor's working method.</li> <li>3. If the exceedance is confirmed to be Project related after investigation, discuss with the ET and the Contractor on possible remedial measures.</li> <li>4. Advise the SOR on the effectiveness of the proposed remedial measures.</li> <li>5. Supervisor implementation of remedial measures.</li> </ol>	<ol style="list-style-type: none"> <li>1. Confirm receipt of notification of failure in writing.</li> <li>2. Notify the Contractor.</li> <li>3. If the exceedance is confirmed to be Project related after investigation, in consultation with the IEC, agree with the Contractor on the remedial measures to be implemented.</li> <li>4. Ensure remedial measures are properly implemented.</li> <li>5. If exceedance continues, consider what activity of the work is responsible and instruct the Contractor to stop that activity of work until the exceedance is abated.</li> </ol>	<ol style="list-style-type: none"> <li>1. Take immediate action to avoid further exceedance.</li> <li>2. If the exceedance is confirmed to be Project related after investigation, submit proposals for remedial actions to IEC within 3 working days of notification.</li> <li>3. Implement the agreed proposals.</li> <li>4. Amend proposal if appropriate.</li> <li>5. Stop the relevant activity of works as determined by the SOR until the exceedance is abated.</li> </ol>

Note: (a) ET – Environmental Team; IEC – Independent Environmental Checker; SOR – Supervising Officer's Representative

*Event & Action Plan for Water Quality*

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



Event	ET Leader	IEC	SOR	Contractor
	<ol style="list-style-type: none"> <li>2. Identify source(s) of impact;</li> <li>3. Inform IEC, contractor, SOR and EPD;</li> <li>4. Check monitoring data, all plant, equipment and Contractor's working methods;</li> <li>5. Discuss mitigation measures with IEC, SOR and Contractor;</li> <li>6.</li> </ol>	<ol style="list-style-type: none"> <li>1. Contractor's working method;</li> <li>2. Discuss with ET and Contractor on possible remedial actions;</li> <li>3. Review the proposed mitigation measures submitted by Contractor and advise the SOR accordingly.</li> </ol>	<ol style="list-style-type: none"> <li>1. writing;</li> <li>2. Discuss with IEC, ET and Contractor on the proposed mitigation measures;</li> <li>3. Request Contractor to review the working methods.</li> </ol>	<ol style="list-style-type: none"> <li>1. non-compliance in writing;</li> <li>2. Rectify unacceptable practice;</li> <li>3. Check all plant and equipment and consider changes of working methods;</li> <li>4. Submit proposal of mitigation measures to SOR within 3 working days of notification and discuss with ET, IEC and SOR.</li> </ol>
Limit level being exceeded by two or more consecutive sampling days	<ol style="list-style-type: none"> <li>1. Repeat measurement on next day of exceedance to confirm findings;</li> <li>2. Identify source(s) of impact;</li> <li>3. Inform IEC, contractor, SOR and EPD;</li> <li>4. Check monitoring data, all plant, equipment and Contractor's working methods;</li> <li>5. Discuss mitigation measures with IEC, SOR and Contractor;</li> <li>6. Ensure mitigation measures are implemented;</li> <li>7. Increase the monitoring frequency to daily until no exceedance of Limit level for two consecutive days;</li> </ol>	<ol style="list-style-type: none"> <li>1. Check monitoring data submitted by ET and Contractor's working method;</li> <li>2. Discuss with ET and Contractor on possible remedial actions;</li> <li>3. Review the Contractor's mitigation measures whenever necessary to assure their effectiveness and advise the SOR accordingly;</li> <li>4. Supervise the implementation of mitigation measures.</li> </ol>	<ol style="list-style-type: none"> <li>1. Discuss with IEC, ET and Contractor on the proposed mitigation measures;</li> <li>2. Request Contractor to critically review the working methods;</li> <li>3. Make agreement on the mitigation measures to be implemented;</li> <li>4. Ensure mitigation measures are properly implemented;</li> <li>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.</li> </ol>	<ol style="list-style-type: none"> <li>1. Take immediate action to avoid further exceedance;</li> <li>2. Submit proposal of mitigation measures to SOR within 3 working days of notification and discuss with ET, IEC and SOR;</li> <li>3. Implement the agreed mitigation measures;</li> <li>4. Resubmit proposals of mitigation measures if problem still not under control;</li> <li>5. As directed by the Supervising Officer, to slow down or to stop all or part of the construction activities until no exceedance of Limit level.</li> </ol>

Note: ET – Environmental Team, IEC – Independent Environmental Checker, SOR – Supervising Officer's Representative

**Event / Action Plan for Impact Dolphin Monitoring**

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

EVENT	ACTION*			
	ET	IEC	SOR	Contractor
	<ol style="list-style-type: none"> <li>3. Identify source(s) of impact;</li> <li>4. Inform the IEC, SOR and Contractor of findings;</li> <li>5. Check monitoring data;</li> <li>6. Repeat review to ensure all the dolphin protective measures are fully and properly implemented and advise on additional measures if necessary.</li> <li>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, 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.</li> </ol>	<p>Contractor the necessity of additional dolphin monitoring and any other potential mitigation measures.</p> <ol style="list-style-type: none"> <li>4. Review proposals for additional monitoring and any other mitigation measures submitted by ET and Contractor and advise SOR of the results and findings accordingly.</li> <li>5. Supervise / Audit the implementation of additional monitoring and/or any other mitigation measures and advise SOR the results and findings accordingly.</li> </ol>	<p>proposals for additional dolphin monitoring and/or any other mitigation measures submitted by ET and Contractor and verified by IEC, SOR to signify the agreement in writing on such proposals and any other mitigation measures.</p> <ol style="list-style-type: none"> <li>3. Supervise the implementation of additional monitoring and/or any other mitigation measures.</li> </ol>	<p>potential mitigation measures.</p> <ol style="list-style-type: none"> <li>3. Jointly submit with ET to IEC a proposal of additional dolphin monitoring and/or any other mitigation measures when necessary.</li> <li>4. Implement the agreed additional dolphin monitoring and/or any other mitigation measures.</li> </ol>

Appendix L

Cumulative Statistics on  
Exceedances, Complaints,  
Notifications of Summons  
and Successful Prosecutions

**Table L1** *Cumulative Statistics on Exceedances*

<b>Parameters</b>	<b>Level of Exceedance</b>	<b>Total No. recorded in this reporting month</b>	<b>Total No. recorded since project commencement</b>
1-hr TSP	Action	0	26
	Limit	0	2
24-hr TSP	Action	0	5
	Limit	0	1
Water Quality	Action	0	6
	Limit	0	1
Impact Dolphin Monitoring	Action	0	3
	Limit	0	0

**Table L2** *Cumulative Statistics on Complaints, Notifications of Summons and Successful Prosecutions*

<b>Reporting Period</b>	<b>Cumulative Statistics</b>		
	<b>Complaints</b>	<b>Notifications of Summons</b>	<b>Successful Prosecutions</b>
This Reporting Month (June 2014)	0	0	0
Total No. received since project commencement	1	0	0

Appendix M

## Waste Flow Table

Name of Department: HyD

Contract No. / Works Order No.: HY/2012/08

Monthly Summary Waste Flow Table for June 2014 [to be submitted not later than the 15<sup>th</sup> day of each month following reporting month]

(All quantities shall be rounded off to 3 decimal places.)

Month	Actual Quantities of <u>Inert</u> Construction Waste Generated Monthly				
	(a)=(b)+(c)+(d)+(e) Total Quantity Generated	(b) Hard Rock and Large Broken Concrete	(c) Reused in the Contract	(d) Reused in other Projects	(e) Disposed of as Public Fill
	(in '000 ton)	(in '000 ton)	(in '000 ton)	(in '000 ton)	(in '000 ton)
2013 Sub-total	3.718	0.000	0.000	0.000	3.718
Jan	9.012	0.000	0.000	0.000	9.012
Feb	0.000	0.000	0.000	0.000	0.000
Mar	0.105	0.000	0.000	0.000	0.105
Apr	0.022	0.000	0.000	0.000	0.022
May	1.016	0.000	0.000	0.000	1.016
Jun	4.393	0.000	0.000	0.000	4.393
Sub-total	14.548	0.000	0.000	0.000	14.548
Jul					
Aug					
Sep					
Oct					
Nov					
Dec					
2014 Total	18.266	0.000	0.000	0.000	18.266

Month	Actual Quantities of <u>Inert</u> Construction Waste Generated Monthly							
	Imported Fill to WA 23 & Reclamation Area (Rockfill 400)	Imported Fill to WA 23 & Reclamation Area (Rockfill 200)	Imported Fill to WA 23 & Reclamation Area (Rockfill Type A)	Imported Fill to Reclamation Area (Public Fill) (by Barge)	Imported Fill to Reclamation Area (Public Fill) (by Truck)	Imported Fill to Barging Point	Marine Disposal (Cat. L)	Marine Disposal (Cat. M <sub>P</sub> & M <sub>F</sub> )
	(in '000 ton)	(in '000 ton)	(in '000 ton)	(in '000 ton)	(in '000 ton)	(in '000 ton)	(in '000 m <sup>3</sup> )	(in '000 m <sup>3</sup> )
2013 Sub-total	211.541	2.508	19.460	0.000	0.000	45.472	61.600	18.200
Jan	177.300	4.050	8.544	0.000	0.000	124.412	34.000	12.500
Feb	143.891	27.825	5.371	0.000	0.000	81.296	18.500	24.500
Mar	257.304	53.388	27.958	113.789	0.000	63.961	37.300	40.450
Apr	198.245	10.186	41.702	191.094	0.000	26.640	28.600	15.400
May	236.816	4.612	65.308	150.749	43.718	15.165	18.700	29.150
Jun	233.430	2.856	37.103	108.667	25.433	0.000	40.700	7.700
Sub-total	1246.986	102.917	185.986	564.299	69.151	311.474	177.8	129.7
Jul								
Aug								
Sep								
Oct								
Nov								
Dec								
2014 Total	1458.527	105.425	205.446	564.299	69.151	356.946	239.4	147.9



Month	Actual Quantities of <u>Non-inert</u> Construction Waste Generated Monthly								
	Metals		Paper/ cardboard packaging		Plastics (see Note 3)		Chemical Waste		Others, e.g. General Refuse disposed at Landfill
	(in '000kg)		(in '000kg)		(in '000kg)		(in '000kg)		(in '000ton)
	generated	recycled	generated	recycled	generated	recycled	generated	recycled	generated
2013 Sub-total	0.000	0.000	0.380	0.380	0.000	0.000	0.000	0.000	0.172
Jan	0.000	0.000	0.130	0.130	0.000	0.000	0.000	0.000	0.045
Feb	0.000	0.000	0.000	0.000	0.000	0.000	0.020	0.020	0.028
Mar	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.036
Apr	0.000	0.000	0.160	0.160	0.000	0.000	0.000	0.000	0.026
May	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.042
Jun	0.000	0.000	0.000	0.000	0.000	0.000	0.030	0.030	0.030
Sub-total	0.000	0.000	0.290	0.290	0.000	0.000	0.050	0.050	0.207
Jul									
Aug									
Sep									
Oct									
Nov									
Dec									
2014 Total	0.000	0.000	0.670	0.670	0.000	0.000	0.050	0.050	0.379

Forecast of Total Quantities of Construction and Demolition Materials to be Generated from the Contract*							
Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed of as Public Fill	Imported Fill	Marine Disposal (Cat. L)	Marine Disposal (Cat. M)
(in '000 ton)	(in '000 ton)	(in '000 ton)	(in '000 ton)	(in '000 ton)	(in '000 ton)	(in '000 m <sup>3</sup> )	(in '000 m <sup>3</sup> )
5.000	0.000	0.000	0.000	5.000	180.000	5.000	40.000

Forecast of Total Quantities of Construction and Demolition Materials to be Generated from the Contract*				
Metals	Paper/ cardboard packaging	Plastics (see Note 3)	Chemical Waste	General Refuse disposed of at Landfill
(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m <sup>3</sup> )
0.000	0.050	0.000	0.000	0.100

- Notes:
- (1) The performance targets are given in the **ER Appendix 8J Clause 14** and the EM & A Manual(s).
  - (2) The waste flow table shall also include C&D materials 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 total amount of C&D materials expected to be generated from the Works, together with a breakdown of the nature where the amount of C&D materials expected to be generated from the Works is equal to or exceeding 50,000 m<sup>3</sup>. (**ER Part 8 Clause 8.8.5 (d) (ii)** refers).