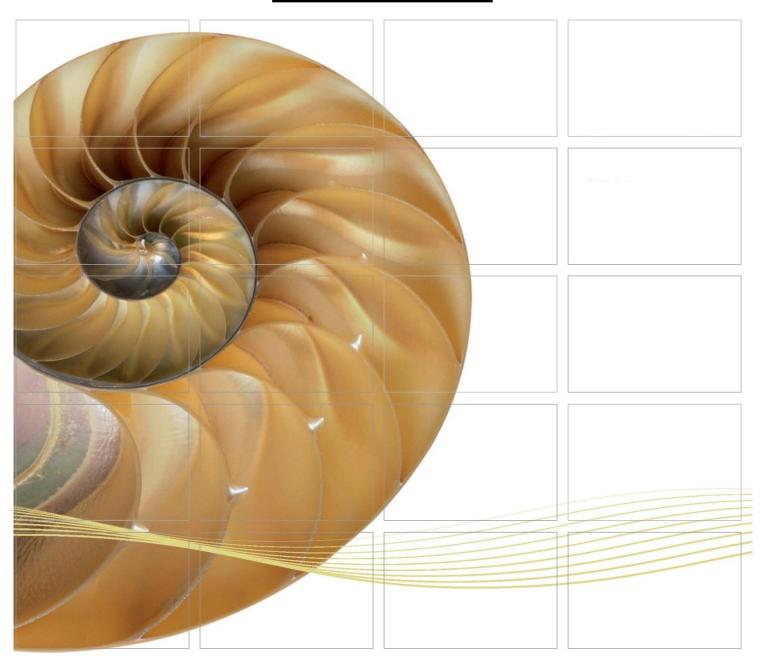
#### REPORT



# Contract No. HY/2012/07 Tuen Mun - Chek Lap Kok Link Southern Connection Viaduct Section

Thirty-eighth Monthly EM&A Report

13 January 2017

Environmental Resources Management 16/F, Berkshire House 25 Westlands Road Quarry Bay, Hong Kong Telephone 2271 3000

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# Contract No. HY/2012/07 Tuen Mun – Chek Lap Kok Link – Southern Connection Viaduct Section

Thirty-eighth Monthly EM&A Report

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# **Environmental Resources Management**

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Client:		Project N	0:				
Gammon			0215660				
Summary:  This document presents the Thirty-eighth Monthly EM&A Report for Tuen Mun – Chek Lap Kok Link – Southern Connection Viaduct Section.		Date: 13 Janu Approved  Mr Craig Partner Certified  Mr Jovy	g Reid	,			
		ET Leade	er		<u> </u>		
	Thirty-eighth Monthly EM&A Report	VAR	JT	CAR	13/01/17		
Revision	Description	Ву	Checked	Approved	Date		
This report has been prepared by Environmental Resources Management the trading name of 'ERM Hong-Kong, Limited', with all reasonable skill, care and diligence within the terms of the Contract with the client, incorporating our General Terms and Conditions of Business and taking account of the resources devoted to it by agreement with the client.  We disclaim any responsibility to the client and others in respect of any matters outside the scope of the above.		☐ Pul	ernal	Certificate I	S 18001:2007 No. OHS 515956 BS1 " 0001:2008 e No. FS 32515		



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# **EXECUTIVE SUMMARY**

Under *Contract No. HY/2012/07*, Gammon Construction Limited (GCL) is commissioned by the Highways Department (HyD) to undertake the design and construction of the Southern Connection Viaduct 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). Ramboll Environ Hong Kong Ltd. was employed by the HyD as the Independent Environmental Checker (IEC) and Environmental Project Office (ENPO) in accordance with *Environmental Permit No. EP-354/2009/A*. Further applications for variation of environmental permit (VEP), *EP-354/2009/B*, *EP-354/2009/C* and *EP-354/2009/D*, were granted on 28 January 2014, 10 December 2014 and 13 March 2015, respectively.

The southern landfall of TM-CLK Link lies alongside the Hong Kong - Zhuhai - Macao Bridge Hong Kong Boundary Crossing Facilities (HKBCF) where a reclamation area is constructed by *Contract No. HY/2010/02* under *Environmental Permit No. EP-353/2009/K* and *EP-354/2009/D*. Upon the agreement and confirmation between the Supervising Officer Representatives and Contractors of *HY/2010/02* and *HY/2012/07* in September 2015, part of the reclamation area for southern landfall under *EP-353/2009/K* and *EP-354/2009/D* was handed-over to *Contract No. HY/2012/07*. Another part of the southern landfall area under *EP-354/2009/D* was handed-over to *Contract No. HY/2012/07* after completion of reclamation works by *Contract No. HY/2010/02* in June 2016.

The construction phase of the Contract commenced on 31 October 2013 and will be tentatively completed by 2018. The impact monitoring of the EM&A programme, including air quality, noise, water quality and marine ecological monitoring as well as environmental site inspections, commenced on 31 October 2013.

This is the Thirty-eighth Monthly EM&A report presenting the EM&A works carried out during the period from 1 to 31 December 2016 for the Southern Connection Viaduct Section 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 Works

- Uninstallation of marine piling platform;
- Pier construction;
- Launching gantry operation; and

• Installation of deck segment and pier head segment.

# Land-based Works

- Pier construction;
- Re-alignment of Cheung Tung Road;
- Road works along North Lantau Highway;
- Installation of pier head and deck segments; and
- Slope work of Viaducts A, B & C.

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

Noise Monitoring 6 sessions

Impact Water Quality Monitoring 14 sessions

Impact Dolphin Monitoring 2 sessions

Joint Environmental Site Inspection 4 sessions

# Breaches of Action and Limit Levels for Air Quality

No exceedance of Action and Limit Levels was recorded for construction air quality monitoring in the reporting month.

#### **Breaches of Action and Limit Levels for Noise**

No exceedance of Action and Limit Levels was recorded for construction noise monitoring in the reporting month.

# Breaches of Action and Limit Levels for Water Quality

No exceedance of Action and Limit Levels was recorded for water quality impact monitoring in the reporting period.

# **Impact Dolphin Monitoring**

During this month of dolphin monitoring, no unacceptable impact from the construction activities of the TM-CLKL Southern Connection Viaduct Section on Indo-Pacific humpback dolphin *Sousa chinensis* (i.e. Chinese White Dolphin) 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 impacts on dolphins have been detected related to the construction activities of the TM-CLKL Southern

Connection Viaduct Section in the quarterly EM&A reports, in which comparison on distribution, group size and encounter rates of dolphins between the quarterly impact monitoring period and baseline monitoring period will be made.

Daily marine mammal exclusion zone monitoring was undertaken during the period of marine works under this Contract. No sighting of the Chinese White Dolphin was recorded in December 2016 during the exclusion zone monitoring.

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

There was one (1) complaint received from EPD on 13 December 2016 regarding hammering noise nuisance generated during midnights in the reporting period. Upon investigation, the complaint is considered not related to this Project.

There was no notification of summons or successful prosecution recorded in the reporting period.

# **Reporting Change**

There was no reporting change in the reporting period.

# **Upcoming Works for the Next Reporting Period**

Works to be undertaken in the next monitoring period of January 2017 include the following:

# Marine Works

- Uninstallation of marine piling platform;
- Pier construction;
- Launching gantry operation; and
- Installation of deck segment and pier head segment.

# Land-based Works

- Pier construction;
- Re-alignment of Cheung Tung Road;
- Road works along North Lantau Highway;
- Installation of pier head and deck segments; and
- Slope work of Viaducts A, B & C.

# **Future Key Issues**

Potential environmental impacts arising from the above upcoming construction activities in the next reporting month of January 2017 are mainly associated with dust, noise, marine water quality, marine ecology and waste management issues.

# 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-146/2009), 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 (*EP-354/2009/A*) was issued on 8 December 2010.

Under *Contract No. HY/2012/07*, Gammon Construction Limited (GCL) is commissioned by the Highways Department (HyD) to undertake the design and construction of the Southern Connection Viaduct Section of TM-CLKL ("the Contract") 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). Ramboll Environ Hong Kong Ltd. was employed by HyD as the Independent Environmental Checker (IEC) and Environmental Project Office (ENPO) in accordance with *Environmental Permit No. EP-354/2009/A*. Further applications for variation of environmental permit (VEP), *EP-354/2009/B*, *EP-354/2009/C* and *EP-354/2009/D*, were granted on 28 January 2014, 10 December 2014 and 13 March 2015, respectively.

The southern landfall of TM-CLK Link lies alongside the Hong Kong - Zhuhai - Macao Bridge Hong Kong Boundary Crossing Facilities (HKBCF) where a reclamation area is constructed by *Contract No. HY/2010/02* under *Environmental Permit No. EP-353/2009/K* and *EP-354/2009/D*. Upon the agreement and confirmation between the Supervising Officer Representatives and Contractors of *HY/2010/02* and *HY/2012/07* in September 2015, part of the reclamation area for southern landfall under *EP-353/2009/K* and *EP-354/2009/D* was handed-over to *Contract No. HY/2012/07*. Another part of the

southern landfall area under *EP-354/2009/D* was handed-over to *Contract No. HY/2012/07* after completion of reclamation works by *Contract No. HY/2010/02* in June 2016.

The construction phase of the Contract commenced on 31 October 2013 and will be tentatively completed by 2018. The impact monitoring phase of the EM&A programme, including air quality, noise, water quality and marine ecological monitoring as well environmental site inspections, commenced on 31 October 2013.

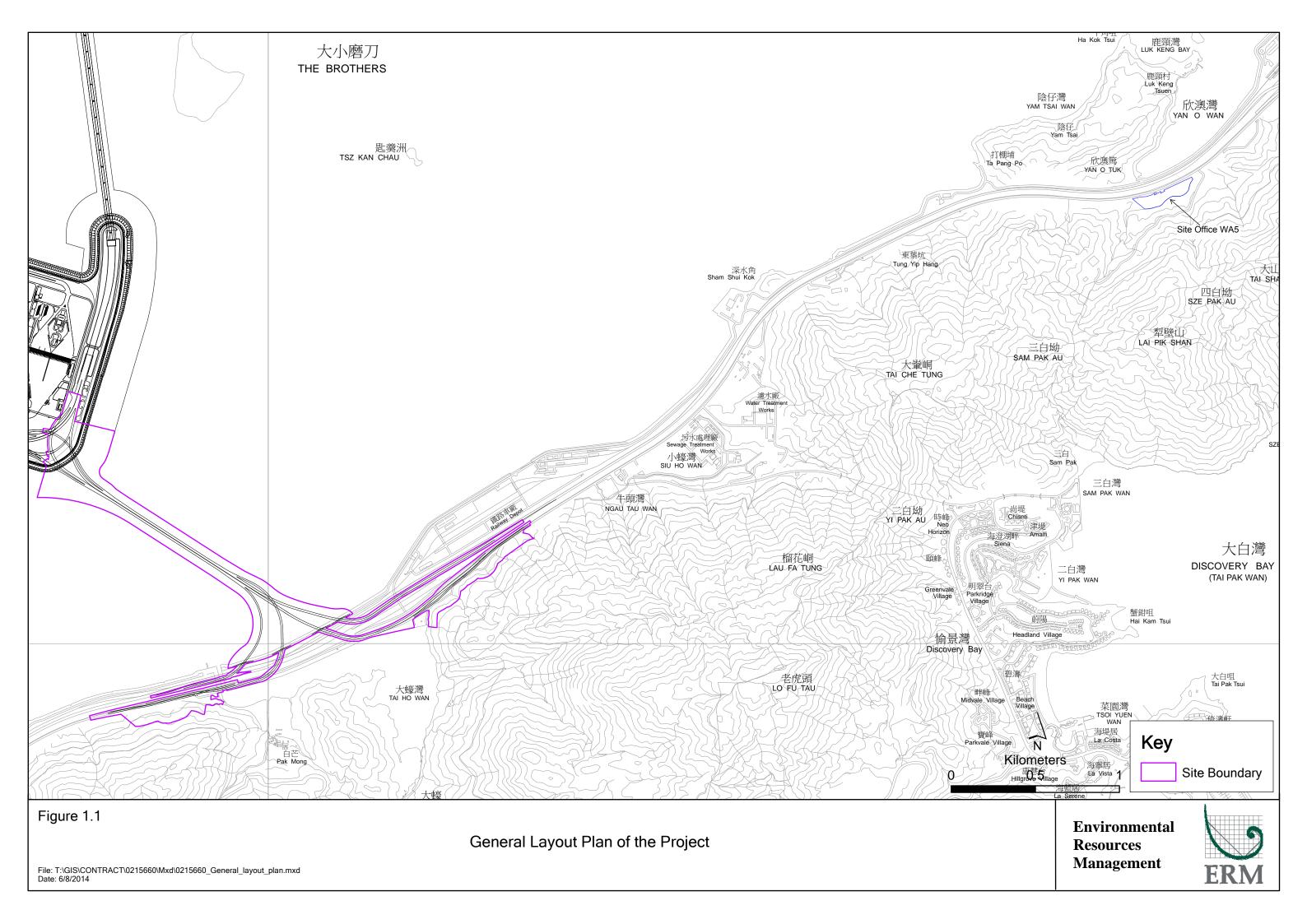
The general layout plan of the Contract components is presented in *Figures 1.1* & 1.2a to 1.

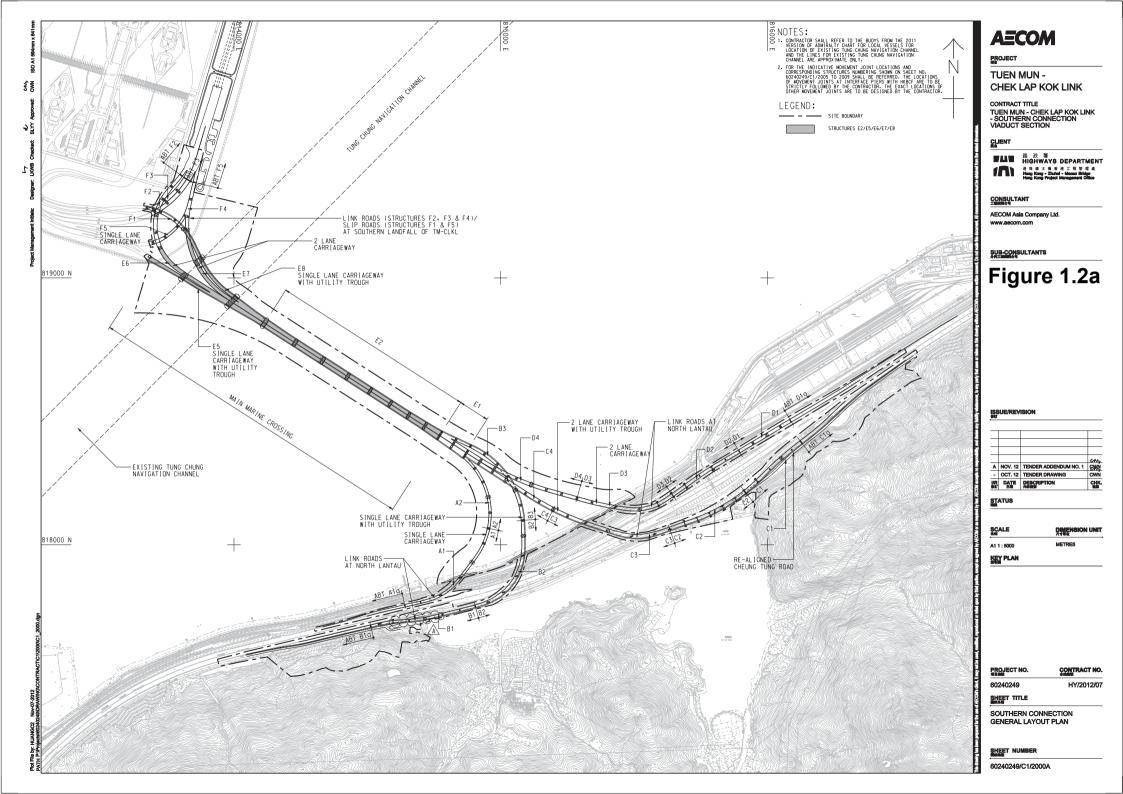
# 1.2 SCOPE OF REPORT

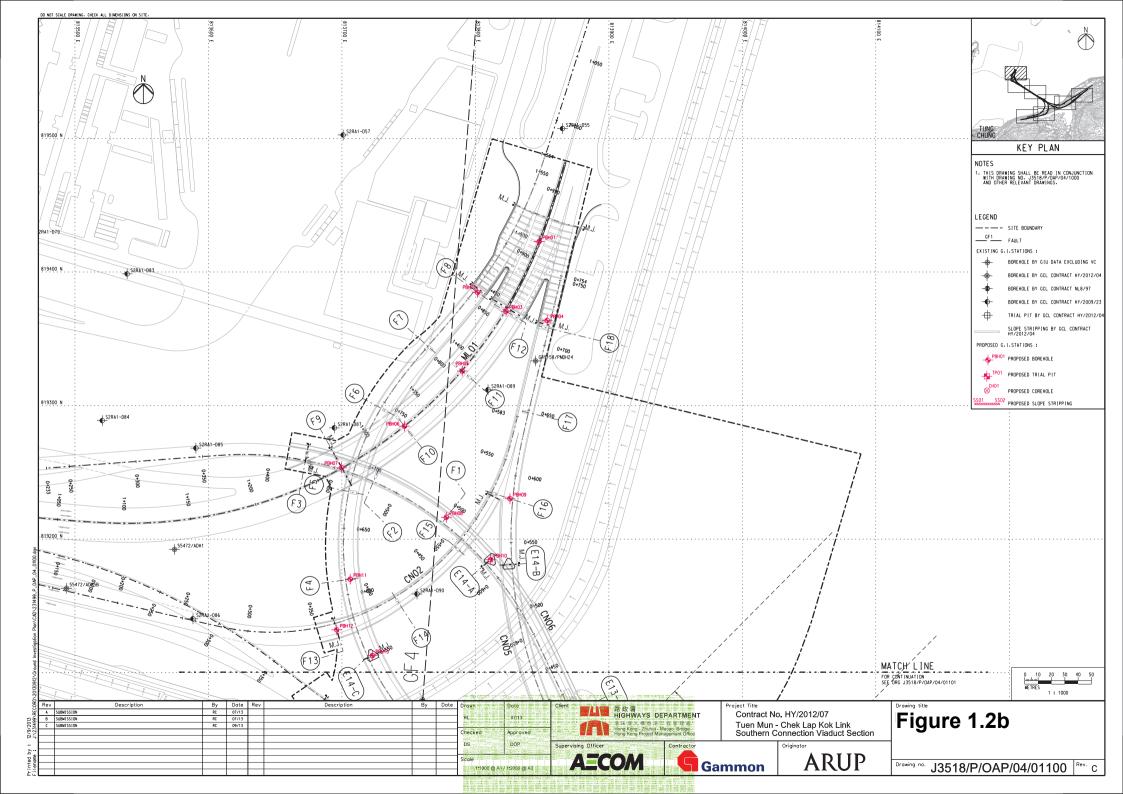
This is the Thirty-eighth Monthly EM&A Report under the *Contract No. HY/2012/07 Tuen Mun – Chek Lap Kok Link – Southern Connection Viaduct Section.* This report presents a summary of the environmental monitoring and audit works in December 2016.

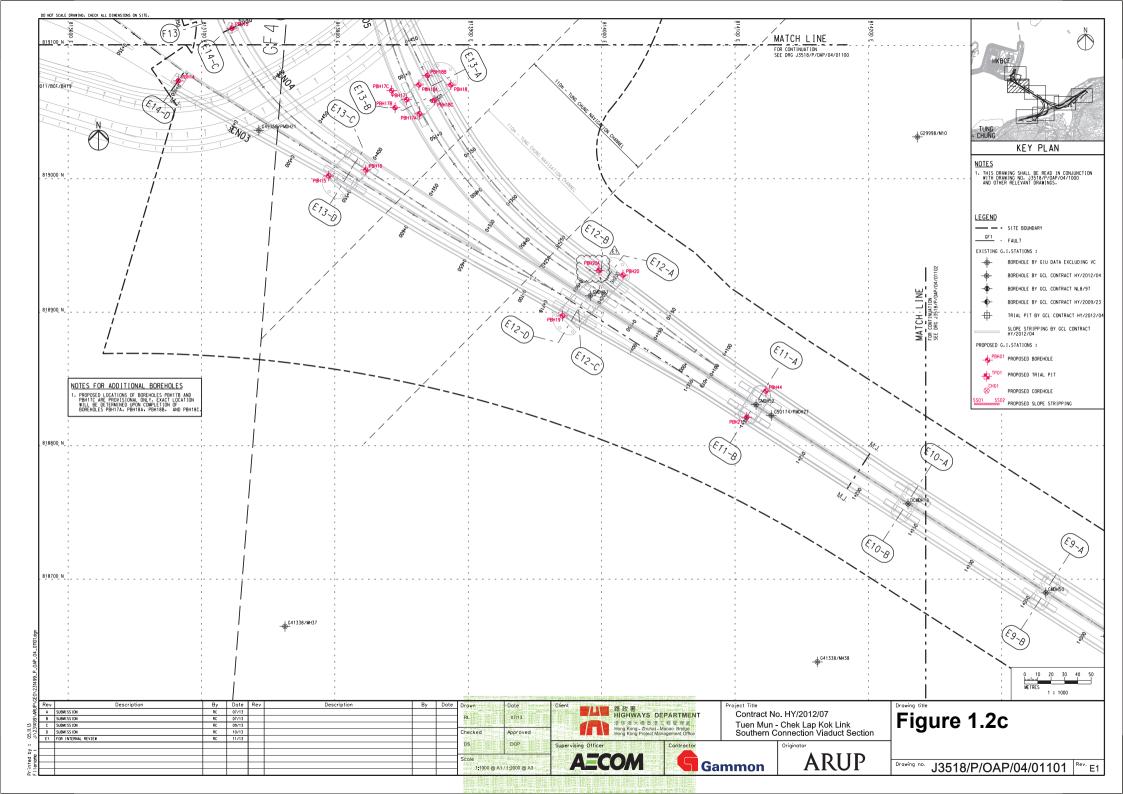
# 1.3 ORGANIZATION STRUCTURE

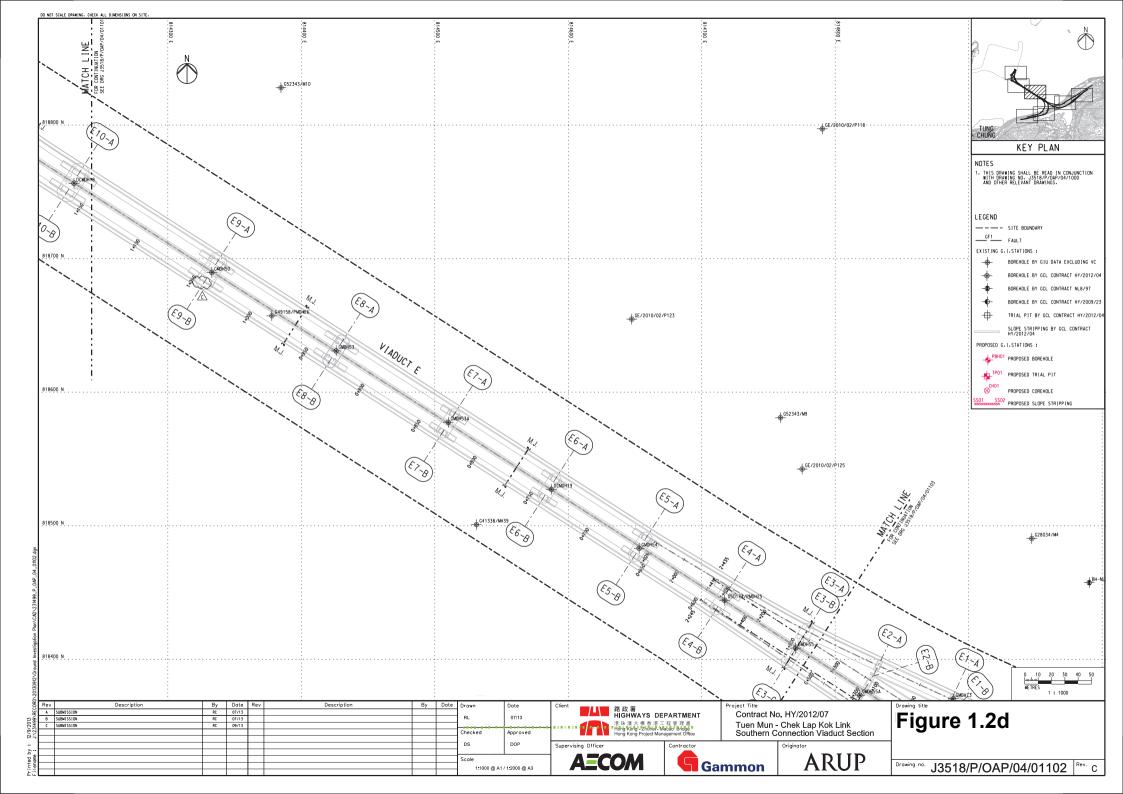
The organization structure of the Contract is shown in *Appendix A*. The key personnel contact names and contact details are summarized in *Table 1.1* below.

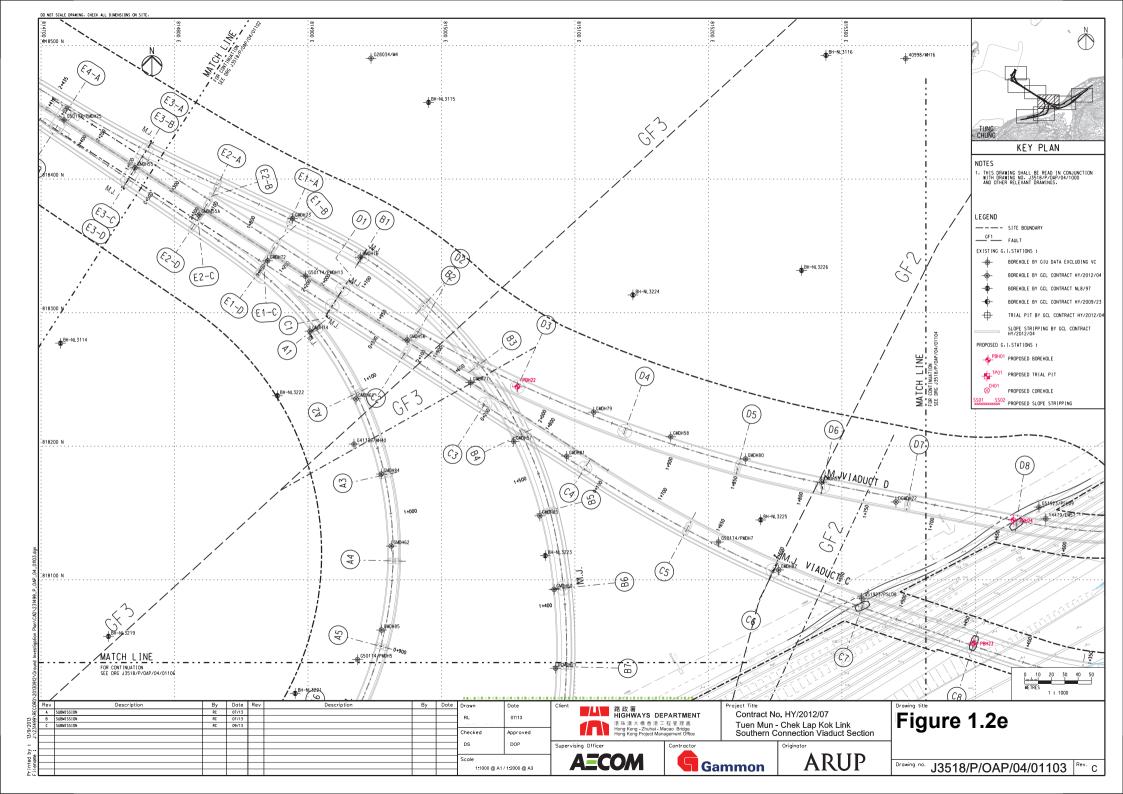


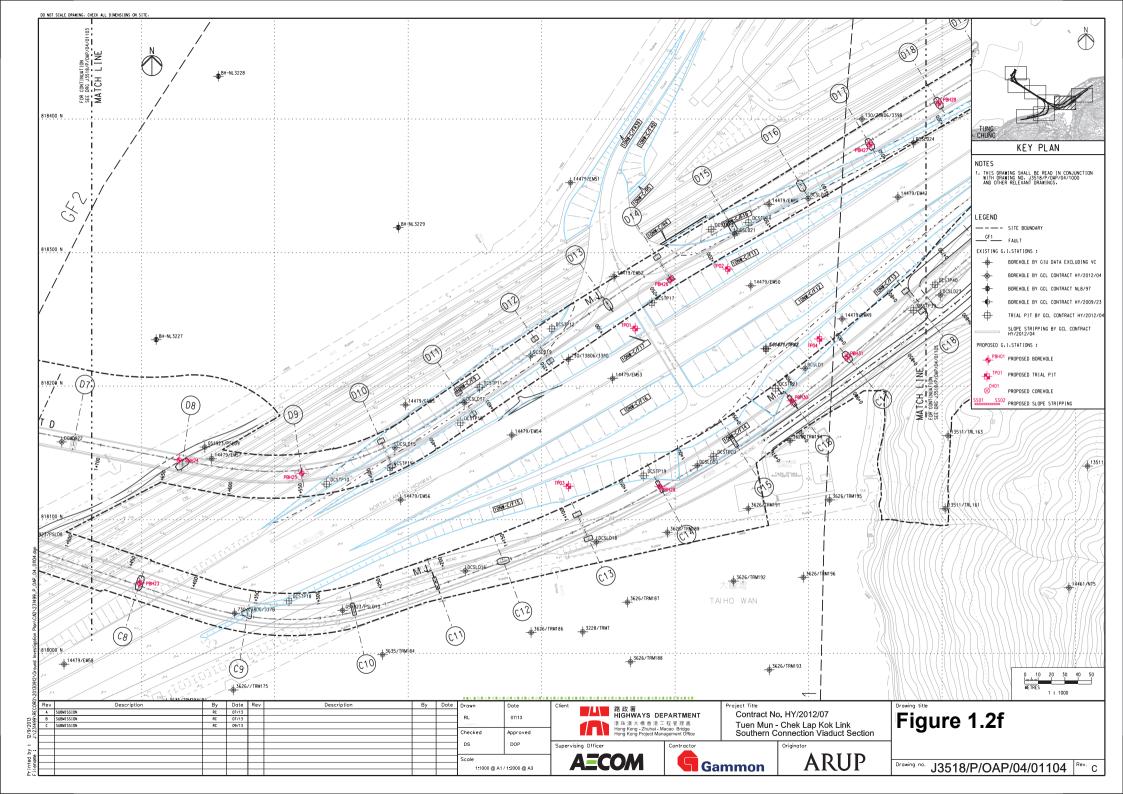


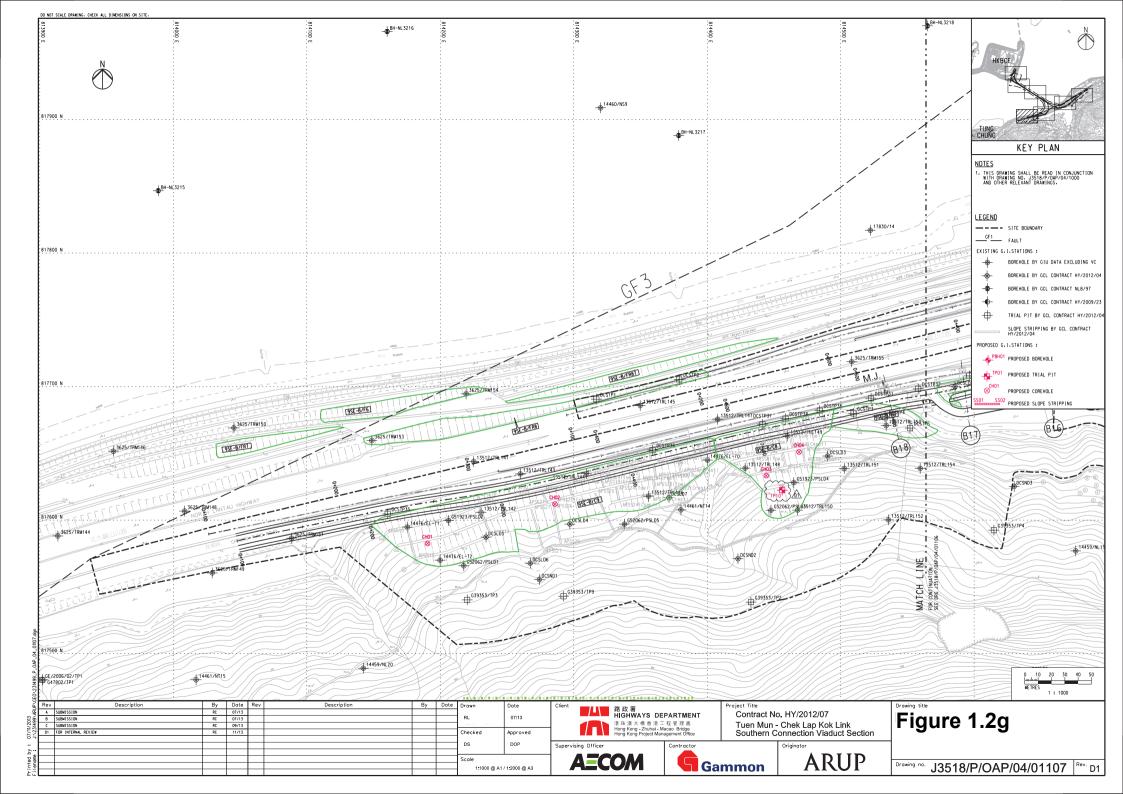


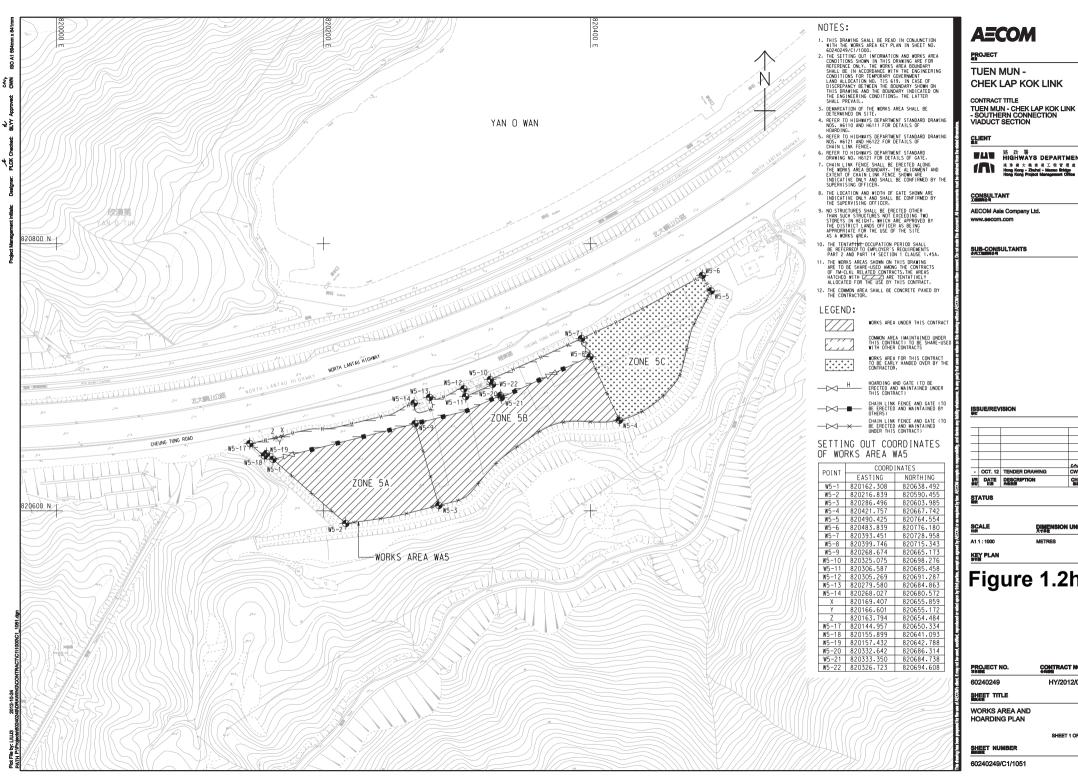












# **AECOM**

TUEN MUN -CHEK LAP KOK LINK

CONTRACT TITLE

■ B 政 署 HIGHWAYS DEPARTMENT

CONSULTANT

AECOM Asia Company Ltd.

SUB-CONSULTANTS

ISSUE/REVISION

CWN - OCT. 12 TENDER DRAWING VR DATE DESCRIPTION œK.

Figure 1.2h

PROJECT NO.

CONTRACT NO. HY/2012/07

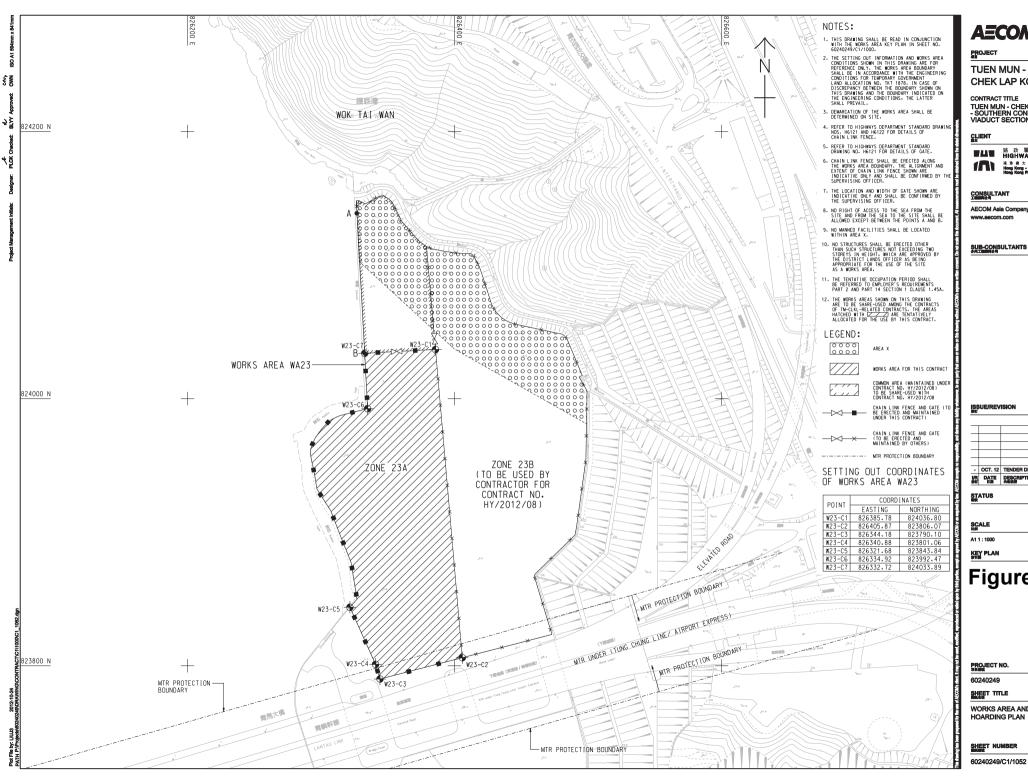
SHEET TITLE

WORKS AREA AND HOARDING PLAN

SHEET 1 OF 2

SHEET NUMBER

60240249/C1/1051



# **AECOM**

TUEN MUN -CHEK LAP KOK LINK

CONTRACT TITLE TUEN MUN - CHEK LAP KOK LINK - SOUTHERN CONNECTION VIADUCT SECTION

■ B 政 署 HIGHWAYS DEPARTMENT 送取 表大 集 香 港 工 程 管 理 意 Hong Kong - Zhahal - Macano Bridge

AECOM Asia Company Ltd.

SUB-CONSULTANTS

SSUE/REVISION

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Figure 1.2i

CONTRACT NO. HY/2012/07

SHEET TITLE

WORKS AREA AND HOARDING PLAN

SHEET 2 OF 2

SHEET NUMBER

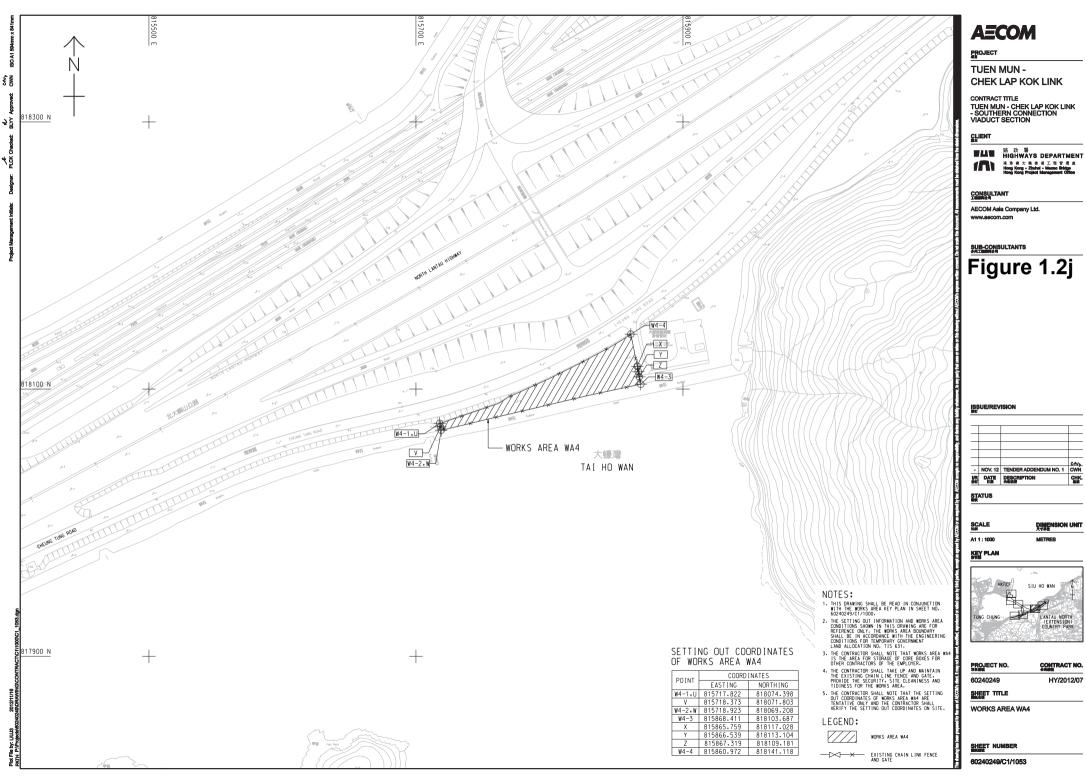
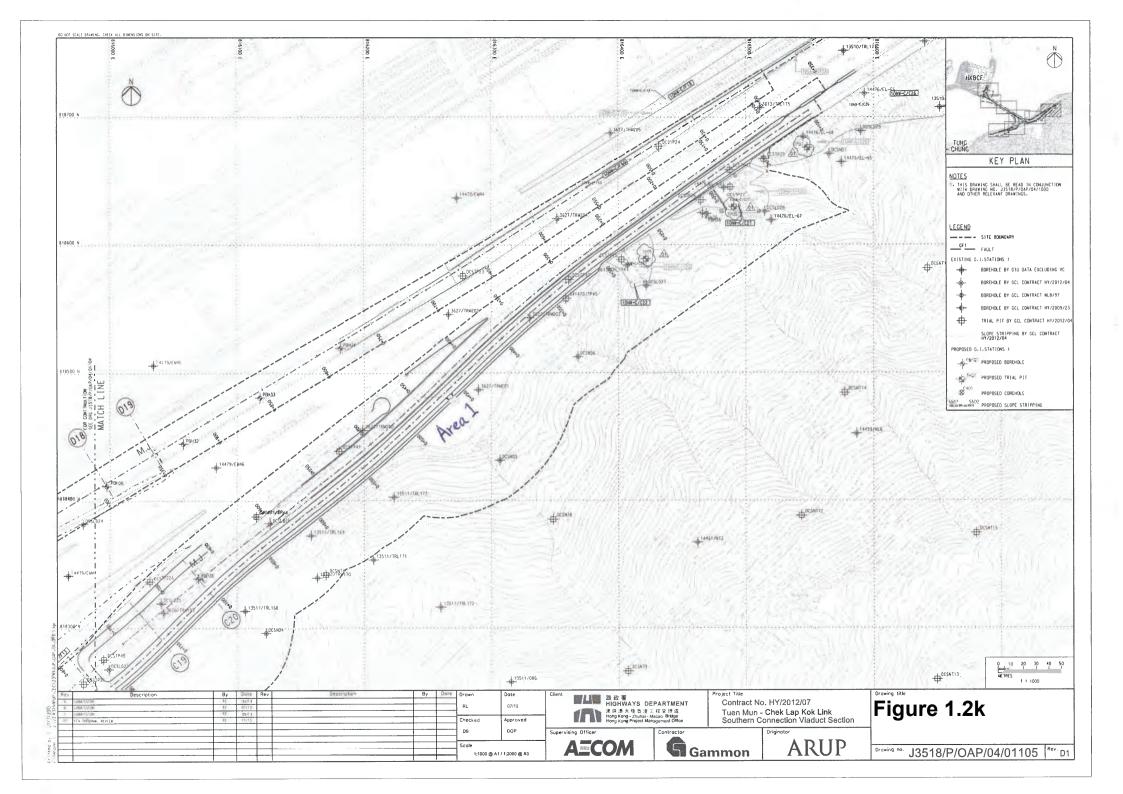


Figure 1.2j

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-	NOV. 12	TENDER ADDENDUM NO. 1	CWN
			CNy



HY/2012/07



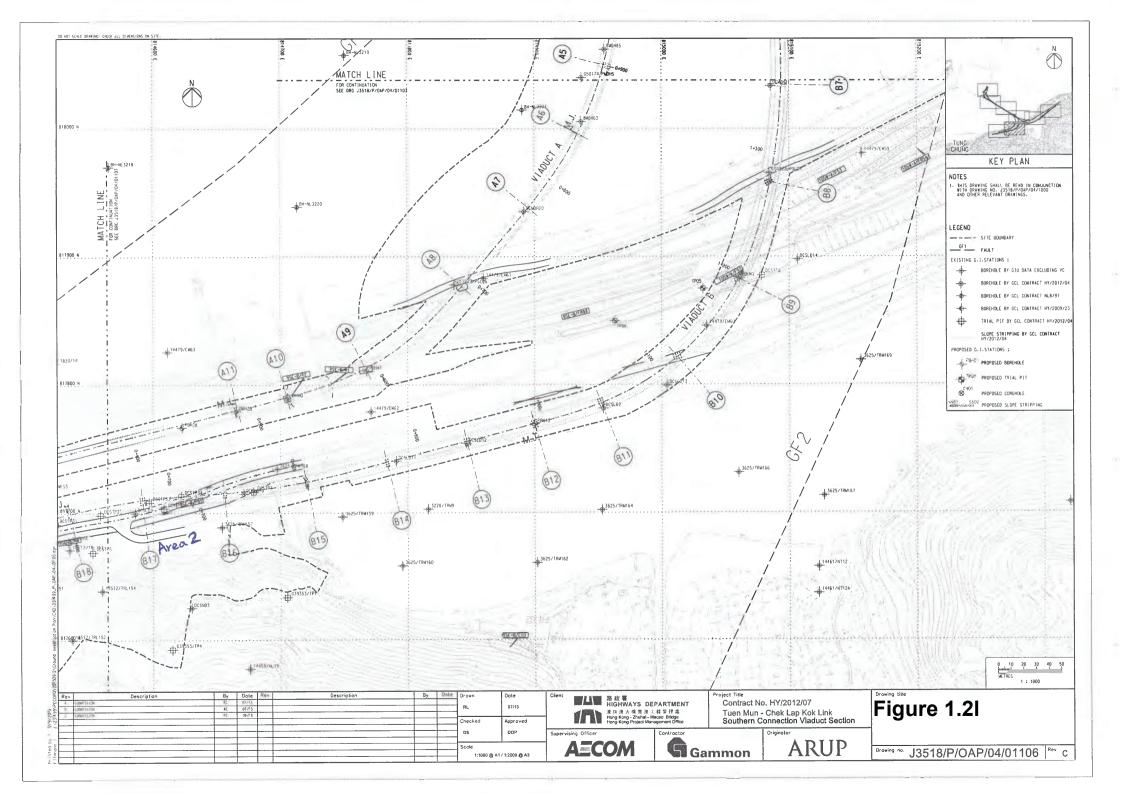


Table 1.1 Contact Information of Key Personnel

Party	Position	Name	Telephone	Fax
HyD (Highways Department)	Project Coordinator	Stanley Chan	2762 3406	3188 6614
• ,	Senior Engineer	Steven Shum	2762 4133	3188 6614
SOR (AECOM Asia Company Limited)	Chief Resident Engineer	Daniel Ip	3553 3800	2492 2057
	Resident Engineer	Kingman Chan	3691 3950	3691 2899
ENPO / IEC (Ramboll Environ	ENPO Leader	Y.H. Hui	3465 2850	3465 2899
Hong Kong Ltd.)	IEC	Dr. F.C. Tsang	3465 2851	3465 2899
Contractor (Gammon Construction Limited)	Environmental Manager	Brian Kam	3520 0387	3520 0486
,	Environmental Officer	Roy Leung	3520 0387	3520 0486
	24-hour Complaint Hotline		9738 4332	
ET (ERM-HK)	ET Leader	Jovy Tam	2271 3113	2723 5660

# 1.4 SUMMARY OF CONSTRUCTION WORKS

The construction phase of the Contract commenced on 31 October 2013. The three-month rolling construction programme is shown in *Appendix B*.

As informed by the Contractor, details of the major works carried out in this reporting month are listed below:

# Marine Works

- Uninstallation of marine piling platform;
- Pier construction;
- Launching gantry operation; and
- Installation of deck segment and pier head segment.

# Land-based Works

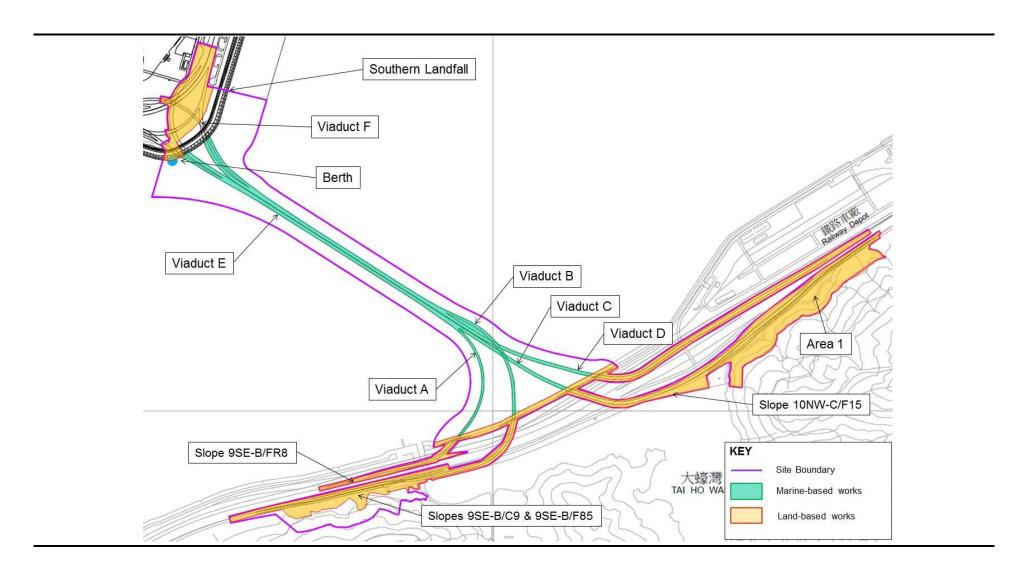
- Pier construction;
- Re-alignment of Cheung Tung Road;
- Road works along North Lantau Highway;

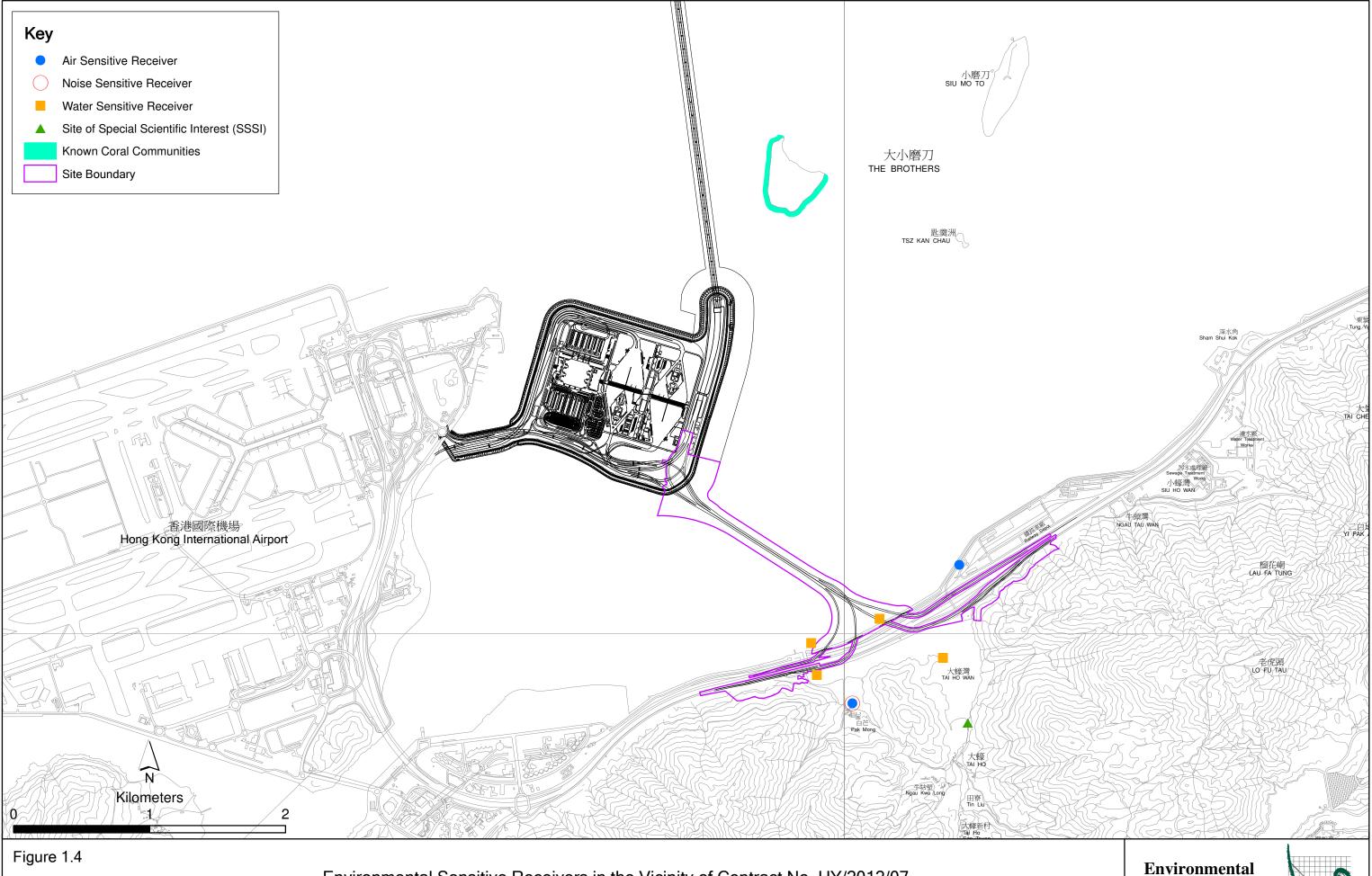
- Installation of pier head and deck segments; and
- Slope work of Viaducts A, B & C.

The locations of the construction activities are shown in *Figure 1.3*. The Environmental Sensitive Receivers in the vicinity of the Project are shown in *Figure 1.4*.

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

Figure 1.3 Locations of Major Construction Activities in the Reporting Month





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Environmental Sensitive Receivers in the Vicinity of Contract No. HY/2012/07 Tuen Mun - Chek Lap Kok Link - Southern Connection Viaduct Section

Environmental Resources Management



# 2 EM&A RESULTS

The EM&A programme required environmental monitoring for air quality, noise, 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, 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. The Action and Limit Levels of the air quality monitoring is provided in *Appendix D*.

Table 2.1 Locations of Impact Air Quality Monitoring Stations

Monitoring Station	Location	Description	Monitoring Dates
ASR 9	MTR Depot	On the ground nearby	1, 7, 13, 19, 22 and 28
		MTR Depot Entrance	December 2016
ASR 8A	Area 4	On ground at the works	1, 7, 13, 19, 22 and 28
		area, Area 4	December 2016

High Volume Samplers (HVSs) were used for carried out 1-hour and 24-hour TSP monitoring on 1, 7, 13, 19, 22 and 28 December 2016 at ASR8A and ASR9 in accordance with the requirements of the Updated EM&A Manual. The TSP monitoring stations are illustrated in *Figure 2.1* and detailed in *Table 2.1*. Wind anemometer was deployed at Area 4 for logging wind speed and wind direction. Copies of the calibration certificates for the equipment are presented in *Appendix E*. Details of the deployed equipment are given in *Table 2.2*.

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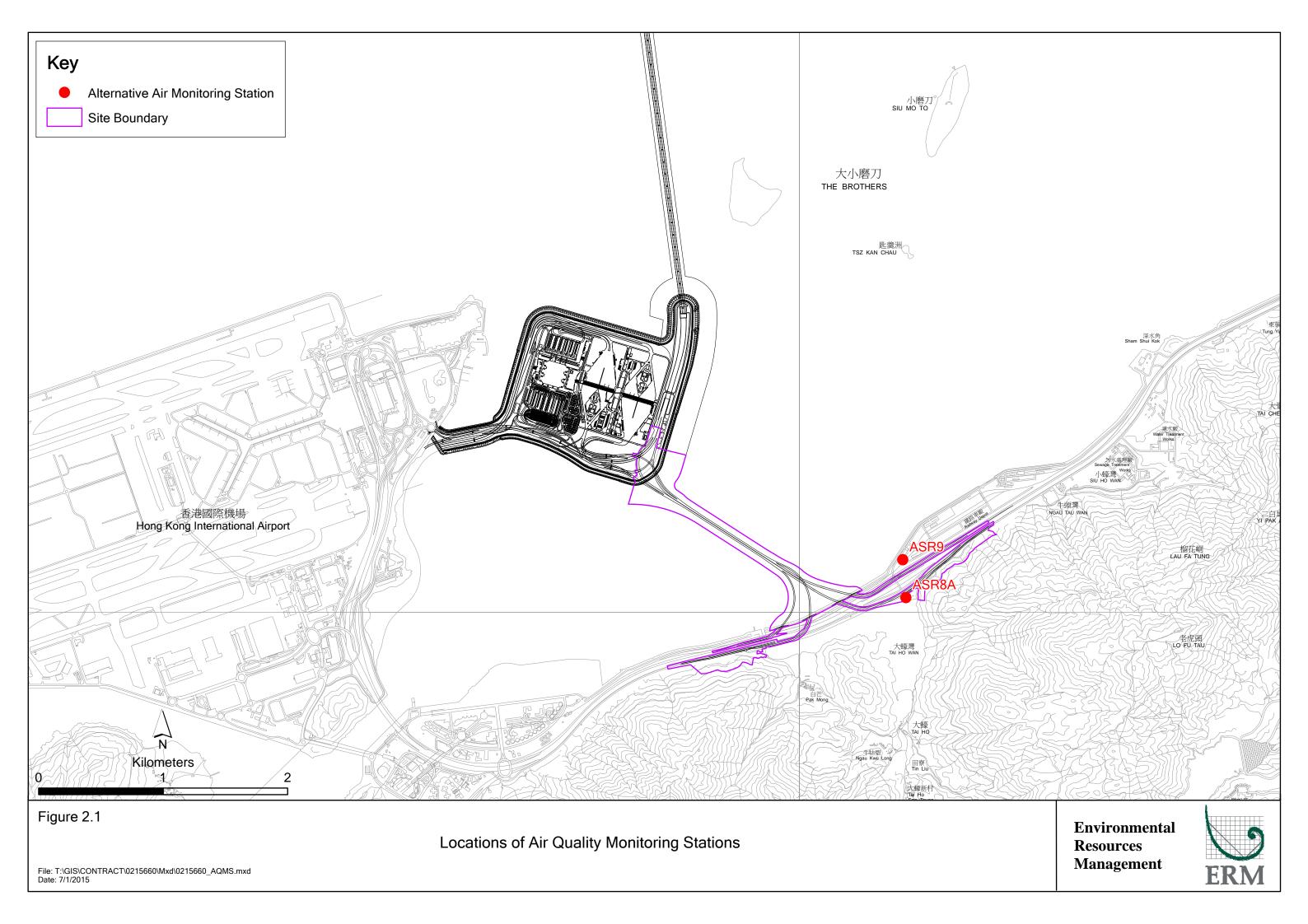


Table 2.2 Air Quality Monitoring Equipment

Equipment	Brand and Model
High Volume Sampler	Tisch Environmental Mass Flow Controlled
(1-hour TSP and 24-hour TSP)	Total Suspended Particulate (TSP) High
	Volume Sampler (Model No. TE-5170)
Wind Sensor	Global Water (Wind Speed Sensor: WE550; Wind Direction Sensor: WE570)
Wind Anemometer for calibration	Lutron (Model No. AM-4201)

# 2.1.2 Monitoring Schedule for the Reporting Month

The schedule for air quality monitoring in December 2016 is provided in *Appendix F*.

# 2.1.3 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 are presented in *Appendix G*.

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

Monitoring Station	Average (μg/m³)	Range (µg/m³)	Action Level (μg/m³)	Limit Level (μg/m³)
ASR 8A	87	47 - 125	394	500
ASR 9	125	62 - 180	393	500

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

Monitoring Station	Average (μg/m³)	Range (µg/m³)	Action Level (μg/m³)	Limit Level (μg/m³)
ASR 8A	65	46 - 78	178	260
ASR 9	80	71 - 94	178	260

The major dust sources in the reporting period included construction activities under the Contract as well as nearby traffic emissions.

All 1-hour and 24-hour TSP results were below the Action and Limit Levels at all monitoring locations in the reporting period. No action is thus required to be undertaken in accordance with the Event Action Plan presented in *Appendix L*.

Meteorological information collected at ASR8A including wind speed and wind direction is provided in *Appendix H*.

# 2.2 Noise Monitoring

# 2.2.1 Monitoring Requirements and Equipment

In accordance with the Updated EM&A Manual, impact noise monitoring was conducted once per week during the construction phase of the Contract. The Action and Limit Level of the noise monitoring is provided in *Appendix D*.

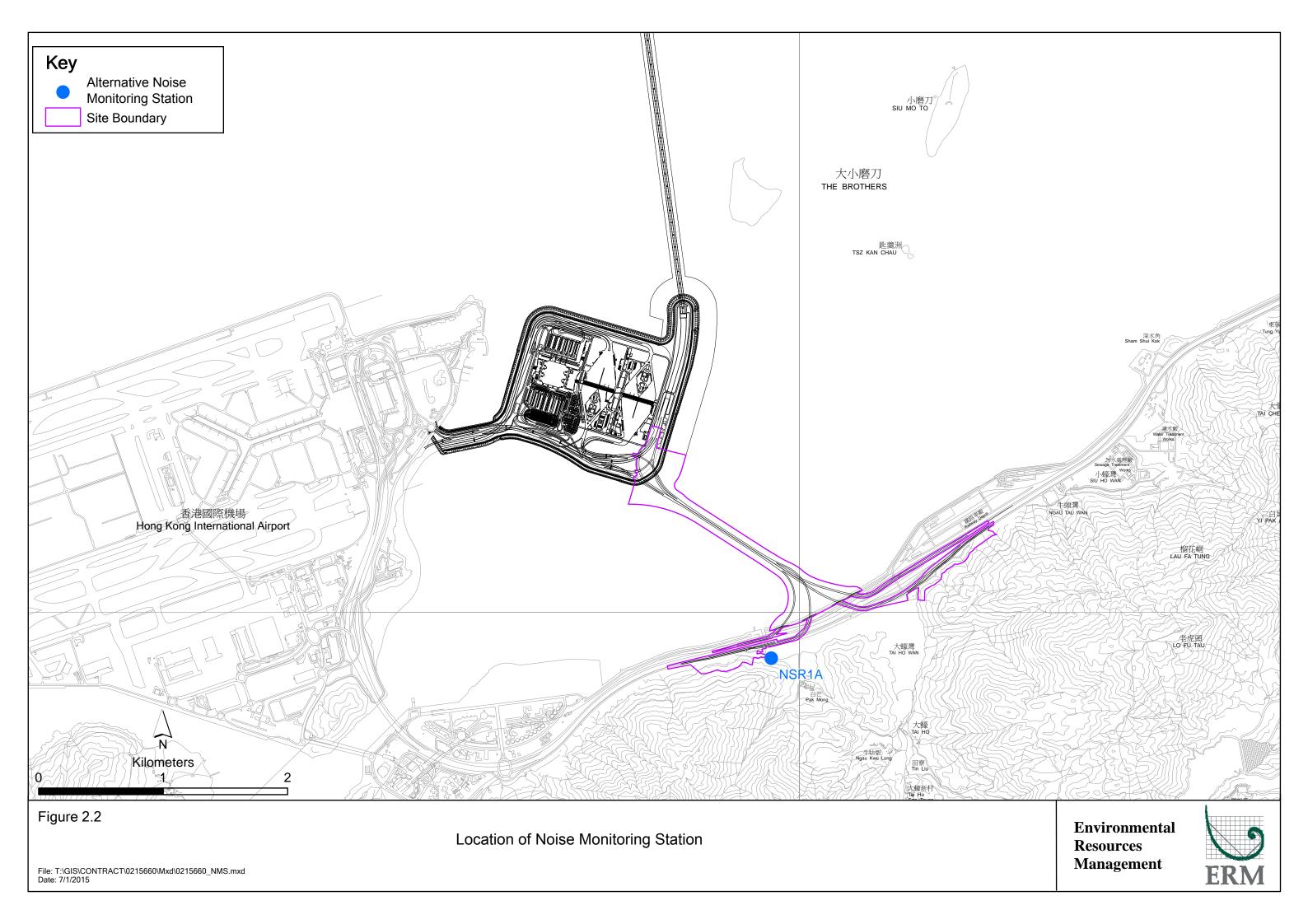
Noise monitoring was performed on 1, 7, 13, 19, 22 and 28 December 2016 using sound level meter at the designated monitoring station NSR1A (*Figure 2.2; Table 2.5*) in accordance with the requirements stipulated in the Updated EM&A Manual. Acoustic calibrator was deployed to check the sound level meters at a known sound pressure level. Details of the deployed equipment are provided in *Table 2.6*. Copies of the calibration certificates for the equipment are presented in *Appendix E*.

Table 2.5 Location of Impact Noise Monitoring Station

Monitoring Station	Location	Description	Parameter	Frequency and Duration	Monitoring Dates
NSR 1A	Pak Mong Village Pavilion	On the ground at the village entrance	30-minute measurement at each monitoring station between 0700 and 1900 on normal weekdays (Monday to Saturday). Leq, L <sub>10</sub> and L <sub>90</sub> would be recorded.	At least once per week	1, 7, 13, 19, 22 and 28 December 2016

Table 2.6 Noise Monitoring Equipment

Equipment	Brand and Model	
Integrated Sound Level Meter	Rion NL-31	
Acoustic Calibrator	Rion NC-73	



# 2.2.2 Monitoring Schedule for the Reporting Month

The schedule for construction noise monitoring in the reporting period is provided in *Appendix F*.

# 2.2.3 Results and Observations

Results for noise monitoring are summarized in *Table 2.7* and the monitoring data is provided in *Appendix I*.

Table 2.7 Summary of Construction Noise Monitoring Results in the Reporting Period

	Average , dB(A),	Range, dB(A),	Limit Level, dB(A),	
	$L_{eq~(30 mins)}$	$L_{eq~(30 mins)}$	$ m L_{eq~(30mins)}$	
NSR 1A	60	59 - 61	75	

No noise Action or Limit Level exceedance was recorded in the reporting month. No action is thus required to be undertaken in accordance with the Event Action Plan presented in *Appendix L*.

Major noise sources during the noise monitoring included noise from crane operation and excavation works, nearby traffic noise and aircraft noise.

# 2.3 WATER QUALITY MONITORING

# 2.3.1 Monitoring Requirements and Equipment

Impact water quality monitoring was carried out to ensure that any deterioration of water quality was detected, and that timely action was taken to rectify the situation. Impact water quality monitoring was undertaken three days per week during the construction period in accordance with the Updated EM&A Manual. The Action and Limit Levels of the water quality monitoring are provided in *Appendix D*.

The locations of the monitoring stations under the Contract are shown in *Figure 2.3* and *Table 2.8*.

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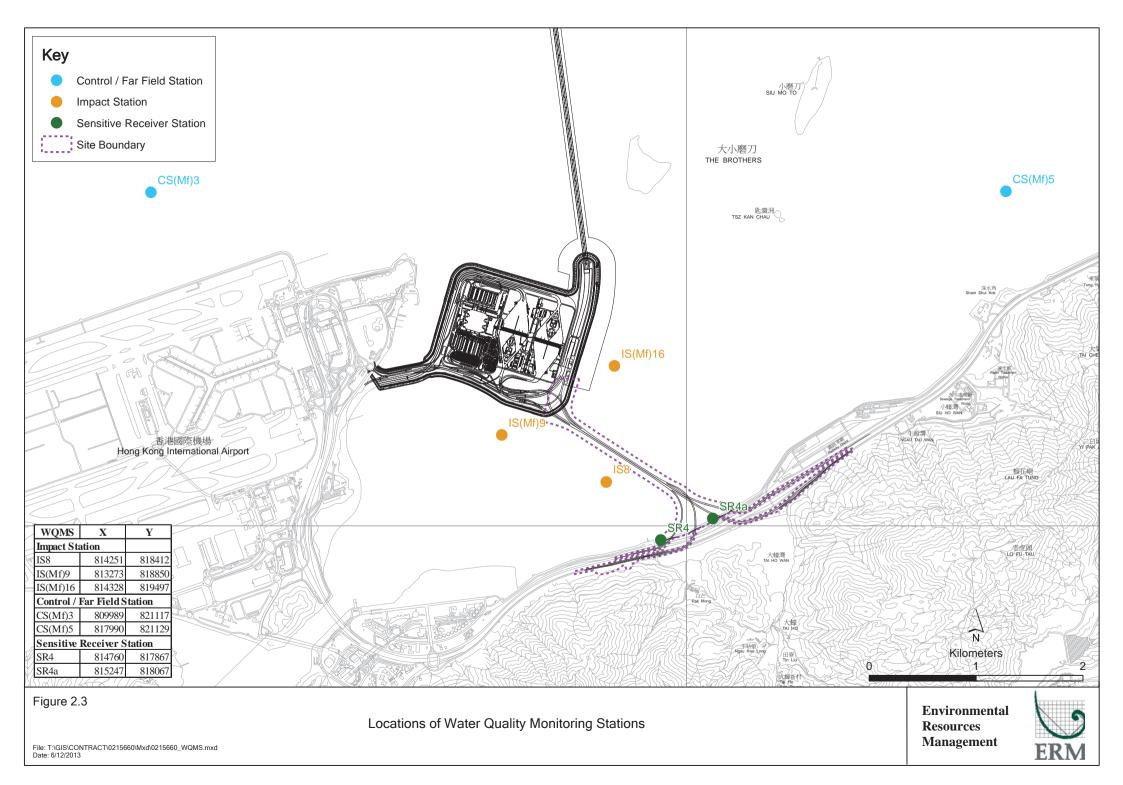


Table 2.8 Locations of Impact Water Quality Monitoring Stations and its Corresponding Monitoring Requirements

Station ID	Type	Coord	linates	*Parameters, unit	Frequency	Depth
	•	Easting	Northing			
IS(Mf)9	Impact Station	813273	818850	• Temperature(°C)	Impact	3 water depths: 1m
	(Close to HKBCF			<ul> <li>pH (pH unit)</li> </ul>	monitoring: 3	below sea surface,
	construction site)			• Turbidity (NTU)	days per	mid-depth and 1m
IS(Mf)16	Impact Station	814328	819497	• Water depth (m)	week, at mid-	above sea bed. If
	(Close to HKBCF			<ul> <li>Salinity (ppt)</li> </ul>	flood and	the water depth is
	construction site)			<ul> <li>Dissolved</li> </ul>	mid-ebb tides	less than 3m, mid-
IS8	Impact Station	814251	818412	Oxygen (DO)	during the	depth sampling
	(Close to HKBCF			(mg/L and % of	construction	only. If water
	construction site)			saturation)	period of the	depth less than 6m,
SR4	Sensitive receiver	814760	817867	• Suspended Solid	Contract	mid-depth may be
	(Tai Ho Inlet)			(SS) (mg/L)		omitted
SR4a	Sensitive receiver	815247	818067			
CS(Mf)3	Control Station	809989	821117			
CS(Mf)5	Control Station	817990	821129			

<sup>\*</sup>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 2.9* summarises the equipment used in the impact water quality monitoring programme. Copies of the calibration certificates are attached in *Appendix E*.

Table 2.9 Water Quality Monitoring Equipment

Equipment	Brand and Model		
DO and Salinity	YSI Pro2030		
Turbidity meter	HACH Model 2100Q		
pH meter	HANNA HI8314		
Positioning Equipment	Koden913MK2 with KBG-3 DGPS antenna		
Water Depth Detector	Speedtech Instrument SM-5		
Water Sampler	Kemmerer 1520 (1520-C25) 2.2L with messenger		

10

# 2.3.2 Monitoring Schedule for the Reporting Month

The schedule for water quality monitoring in December 2016 is provided in *Appendix F*.

# 2.3.3 Results and Observations

In total of 14 monitoring events for impact water quality monitoring were conducted at all designated monitoring stations in the reporting month. Impact water quality monitoring results and graphical presentations are provided in *Appendix J*.

Neither Action nor Limit Levels exceedances was recorded at all monitoring stations for impact water quality monitoring in the reporting month. No action is thus required to be undertaken in accordance with the Event Action Plan presented in *Appendix L*.

# 2.4 DOLPHIN MONITORING

# 2.4.1 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 Indo-Pacific humpback dolphin *Sousa chinensis* (i.e. Chinese White Dolphin) from the Contract. 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.

# 2.4.2 *Monitoring equipment*

*Table 2.10* summarizes the equipment used for the impact dolphin monitoring.

Table 2.10 Dolphin Monitoring Equipment

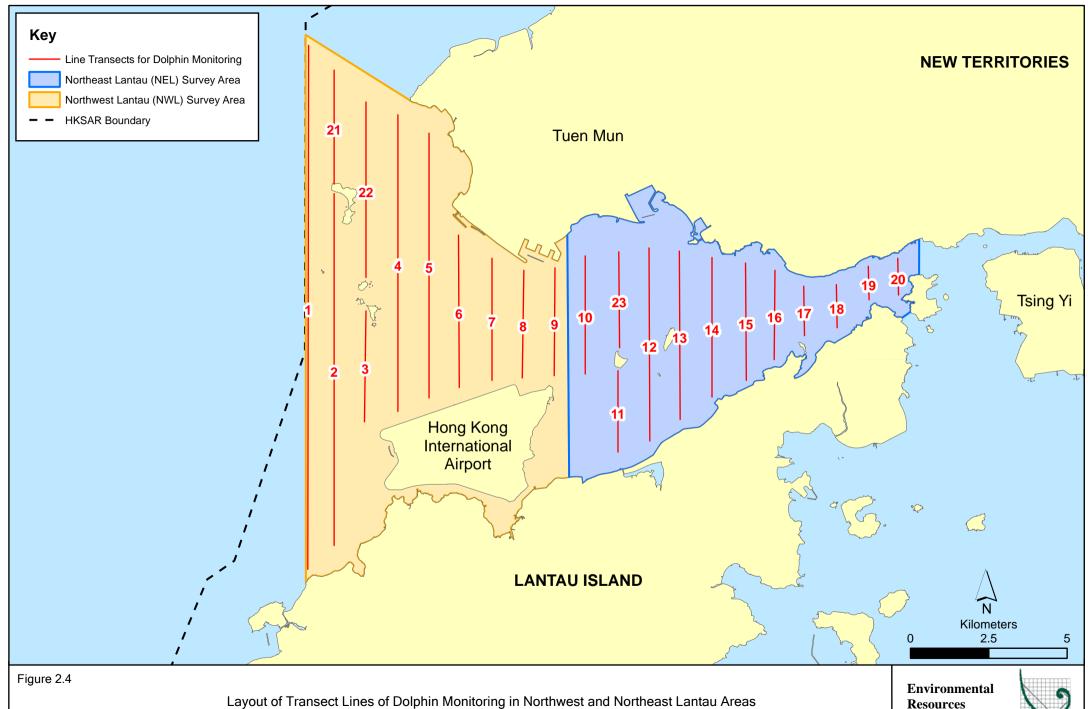
Equipment	Model
Global Positioning System (GPS)	Garmin 18X-PC
	Geo One Phottix
Camera	Nikon D90 300m 2.8D fixed focus
	Nikon D90 20-300m zoom lens
Laser Binoculars	Infinitor LRF 1000
Marine Binocular	Bushell 7 x 50 marine binocular with compass and reticules
Vessel for Monitoring	65 foot single engine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

### 2.4.3 Monitoring Parameter, Frequencies and 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.

### 2.4.4 Monitoring Location

The impact dolphin monitoring was carried out in the NEL and NWL along the line transect as depicted in *Figure 2.4*. The co-ordinates of all transect lines are shown in *Table 2.11* below.



File: T:\GIS\CONTRACT\0212330\Mxd\0212330\_Transect\_of\_Dolphin\_Monitoring.mxd Date: 10/12/2013

Resources Management



Table 2.11 Impact Dolphin Monitoring Line Transect Co-ordinates

	Line No.	Easting	Northing		Line No.	Easting	Northing
1	Start Point	804671	815456	13	Start Point	816506	819480
1	End Point	804671	831404	13	End Point	816506	824859
2	Start Point	805475	815913	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	820880	19	Start Point	822513	823268
7	End Point	810499	824613	19	End Point	822513	824321
8	Start Point	811508	821123	20	Start Point	823477	823402
8	End Point	811508	824254	20	End Point	823477	824613
9	Start Point	812516	821303	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	818853	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				

#### 2.4.5 Action & Limit Levels

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

#### 2.4.6 Monitoring Schedule for the Reporting Month

Dolphin monitoring was carried out on 1, 6, 16 and 19 December 2016 (*Appendix F*).

#### 2.4.7 Results and Observations

A total of 295.50 km of survey effort was collected, with 96.3% of the total survey effort being conducted under favourable weather conditions (i.e. Beaufort Sea State 3 or below with good visibility) during the surveys in December 2016. Among the two areas, 116.10km and 179.40 km of survey effort were collected from NEL and NWL survey areas, respectively. The total survey effort conducted on primary and secondary lines were 212.93 km and 82.57 km, respectively. The survey efforts are summarized in *Appendix K*.

Six (6) groups of 24 Chinese White Dolphins were sighted during the two sets of monitoring surveys in December 2016. All six (6) dolphin sightings were made in NWL, while none was sighted in NEL. During the surveys in December 2016, five of the six sightings were made on primary lines during on-effort search. None of the dolphin groups was associated with operating fishing vessel and none of the dolphin groups were sighted in the proximity of the Project's alignment. The distribution of dolphin sighting during the reporting month is shown in *Figure 2.5*.

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) in December 2016 are shown in *Tables 2.12 & 2.13*.

Table 2.12 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: Dec 1st / 6th	0.0	0.0
NEL	Set 2: Dec 16th / 19th	0.0	0.0
NWL	Set 1: Dec 1st / 6th	1.6	1.6
INVVL	Set 2: Dec 16th / 19th	6.0	22.5

Note: Dolphin Encounter Rates are deduced from the two sets of surveys ( two surveys in each set) in December 2016 in Northeast (NEL) and Northwest Lantau (NWL)

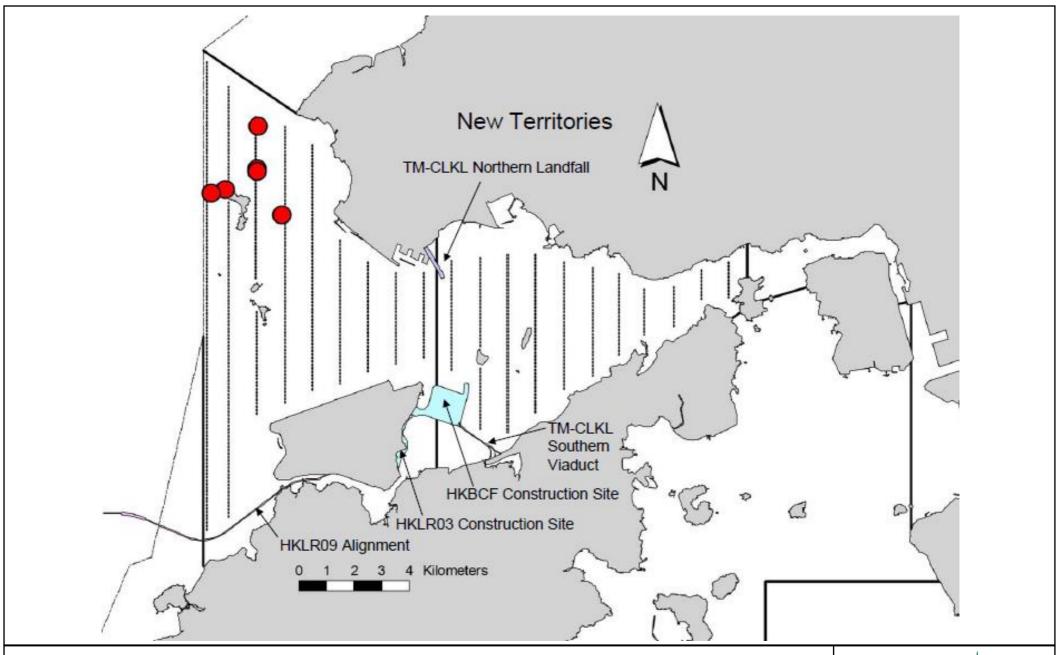


Figure 2.5

HY/2012/07 TM-CLKL Southern Connection Viaduct Section The distribution of dolphin sightings during the reporting period (Source: Adopted from HKLR03 Monitoring Survey in December 2016)

Environmental Resources Management



Table 2.13 Monthly Average Encounter Rates

	`	rate (STG) dolphin sightings survey effort)	Encounter rate (ANI)  (no. of dolphins from all on-effor sightings per 100 km of survey effort)			
	Primary Lines Only	Both Primary and Secondary Lines	Primary Lines Only	Both Primary and Secondary Lines		
Northeast Lantau	0.0	0.0	0.0	0.0		
Northwest Lantau	3.8	2.9	12.3	9.4		

Note: Overall dolphin encounter rates (sightings per 100 km of survey effort) from all four surveys are conducted in December 2016 on primary lines only as well as both primary lines and secondary lines in Northeast and Northwest Lantau

During this month of dolphin monitoring, no unacceptable impact from the construction activities of the TM-CLKL Southern Connection Viaduct 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 impacts on dolphins have been detected related to the construction activities of the TM-CLKL Southern Connection Viaduct Section in the quarterly EM&A reports, in which comparison on distribution, group size and encounter rates of dolphins between the quarterly impact monitoring period and baseline monitoring period will be made.

### 2.4.8 Marine Mammal Exclusion Zone Monitoring

Daily 250 m marine mammal exclusion zone monitoring was undertaken during the period of daytime marine works activities. No sighting of Chinese White Dolphin was recorded in December 2016 during the exclusion zone monitoring.

Passive Acoustic Monitoring (PAM) had been decommissioned as no marine piling works was carried out outside the daylight hours since September 2015.

#### 2.5 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 7, 14, 22 and 29 December 2016.

Key observations during the site inspections are summarized in *Table 2.14*.

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Table 2.14 Specific Observations Identified during the Weekly Site Inspections in this Reporting Month

Inspection Date	<b>Environmental Observations</b>	Recommendations/ Remarks
7 December 2016	<ul> <li>Viaduct B (B17)</li> <li>NRMM labels were not displayed on air compressor.</li> <li>Sand bunds were not provided to avoid sediment runoff.</li> <li>Chemical container was not placed in drip tray.</li> <li>Viaduct C (C17)</li> <li>Stockpile was not fully covered by tarpaulin.</li> </ul>	<ul> <li>Viaduct B (B17)</li> <li>The Contractor was reminded to display NRMM labels on air compressor.</li> <li>The Contractor was reminded to provide sand bunds.</li> <li>The Contractor was reminded to remove the chemical containers and placed them in drip tray.</li> <li>Viaduct C (C17)</li> <li>The Contractor was reminded cover stockpile by tarpaulin.</li> </ul>
14 December 2016	<ul> <li>Seafront</li> <li>Chemical container was not placed in drip tray.</li> <li>Viaduct E (E13AB)</li> <li>NRMM labels were not displayed on generator.</li> <li>Viaduct E (E4)</li> <li>Accumulated general refuse was observed.</li> </ul>	Seafront  The Contractor was reminded to remove the chemical containers and placed them in drip tray.  Viaduct E (E13AB)  The Contractor was reminded to display NRMM labels on generator.  Viaduct E (E4)  The Contractor was reminded to clear accumulated general refuse.
22 December 2016	<ul> <li>Viaduct D (D9)</li> <li>Accumulated general refuse was observed.</li> <li>Viaduct D (D14)</li> <li>Chemical containers were not placed in drip tray.</li> <li>Ramp D</li> <li>Accumulated general refuse was observed.</li> </ul>	Viaduct D (D9)  The Contractor was reminded to clear accumulated general refuse.  Viaduct D (D14)  The Contractor was reminded to remove the chemical containers and placed them in drip tray.  Ramp D  The Contractor was reminded to clear accumulated general refuse.
29 December 2016	<ul> <li>Viaduct E (E8)</li> <li>Chemical containers were not placed in drip tray.</li> <li>Viaduct B (near LG1)</li> <li>Chemical containers were not placed in drip tray.</li> <li>Water inside drip tray was observed.</li> <li>NRMM labels were not properly displayed on generator.</li> </ul>	Viaduct E (E8)  The Contractor was reminded to remove the chemical containers and placed them in drip tray.  Viaduct B (near LG1)  The Contractor was reminded to remove the chemical containers and placed them in drip tray.  The Contractor was reminded to clear water inside drip tray.  The Contractor was reminded to properly display NRMM labels on generator.

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

#### 2.6 WASTE MANAGEMENT STATUS

The Contractor has 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), recyclable materials, chemical waste and marine sediment (Category L). 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 2.15*.

Table 2.15 Quantities of Different Waste Generated in the Reporting Period

Month/Year	Inert C&D	Inert C&D Imported		Non-inert	Recyclable	Chemical	Marine Sediment (m³)		
	Materials (a)	Fill (m³)	Construction	Construction	Materials (c)	Wastes	Category	Category	
	$(m^3)$		Waste Re-	Waste (b) (kg)	(kg)	(kg)	L	M	
			used					$(M_p & M_f)$	
			(m³)						
December	3,397	0	732	130,900	63	0	990	0	
2017									

#### 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, felled trees 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*.

#### 2.7 ENVIRONMENTAL LICENSES AND PERMITS

The status of environmental licensing and permit is summarized in *Table 2.16* below.

Table 2.16 Summary of Environmental Licensing and Permit Status

License/ Permit	License or Permit	Date of Issue	Date of Expiry	License/	Remarks
	No.			Permit Holder	
Environmental Permit	EP-354/2009/D	13 March 2015	N/A	HyD	Tuen Mun- Chek Lap Kok Link
Environmental Permit	EP-353/2009/K	11 April 2016	N/A	HyD	Hong Kong Boundary Crossing Facilities
Construction Dust Notification	361571	5 Jul 2013	N/A	GCL	
Construction Dust Notification	362093	17 Jul 2013	N/A	GCL	For Area 23
Chemical Waste Registration	5213-961-G2380-13	10 Oct 2013	N/A	GCL	Chemical waste produced in Contract No.
					HY/2012/07
					(Area 1 adjacent to Cheng Tung Road, Siu Ho Wan)
Chemical Waste Registration	5213-961-G2380-14	10 Oct 2013	N/A	GCL	Chemical waste produced in Contract No. HY/2012/07
					(Area 2 adjacent to Cheung Tung Road, Pak Mong Village)
Chemical Waste Registration	5213-974-G2588-03	4 Nov 2013	N/A	GCL	Chemical waste produced in Contract No. HY/2012/07
					(WA5 adjacent to Cheung Tung Road, Yam O)
Chemical Waste Registration	5213-951-G2380-17	12 Jun 2014	N/A	GCL	Viaducts A, B, C, D & E
Construction Waste Disposal Account	7017735	10 Jul 2013	N/A	GCL	-
Construction Waste Disposal Account	7019470	3 Mar 2014	N/A	GCL	Vessel CHIT Account
Waste Water Discharge License	WT00019017-2014	13 May 2014	31 May 2019	GCL	Discharge for marine portion
Waste Water Discharge License	WT00019018-2014	13 May 2014	31 May 2019	GCL	Discharge for land portion
Construction Noise Permit for night works and works in general holidays	GW-RW0339-16	17 Jun 2016	19 Dec 2016	GCL	General works at WA5
Construction Noise Permit for night works and works in general holidays	GW-RW0708-16	20 Dec 2016	18 Jun 2017	GCL	General works at WA5
Construction Noise Permit for night works and works in general holidays	GW-RS1045-16	14 Oct 2016	13 Apr 2017	GCL	For Broad Permit
Construction Noise Permit for night works and works in general holidays	GW-RS1309-16	20 Dec 2016	19 Jun 2017	GCL	Broad Permit for Whole Site Areas
Construction Noise Permit for night works and works in general holidays	GW-RS1159-16	24 Nov 2016	28 Feb 2017	GCL	Broad Permit for Segment Launching at Land Portion
Construction Noise Permit for night works and works in general holidays	GW-RS0718-16	13 Jul 2016	13 Jan 2017	GCL	Pre-casted pile cap shell installation at E10-E13
Construction Noise Permit for night works and	GW-RS1044-16	14 Oct 2016	13 Apr 2017	GCL	Pre-casted pile cap shell installation at E8-E13

License/ Permit	License or Permit	Date of Issue	Date of Expiry	License/	Remarks
	No.			Permit Holder	
works in general holidays					
Construction Noise Permit for night works and	GW-RS1158-16	24 Nov 2016	31 Dec 2016	GCL	Contingency plan for DN1000 works at Tung
works in general holidays					Chung Seafront Road
Marine Dumping Permit	EP/MD/17-141	24 Nov 2016	31 Dec 2016	GCL	For dumping Type I (Dedicated Site) and Type II
					sediment
Marine Dumping Permit	EP/MD/17-115	20 Oct 2016	31 Dec 2016	GCL	For dumping Type I sediment

#### 2.8 IMPLEMENTATION STATUS OF ENVIRONMENTAL MITIGATION MEASURES

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

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

The landscape and visual (L&V) mitigation measures were also monitored on weekly basis in the reporting period. The monitoring status is summarized in *Appendix C*.

# 2.9 SUMMARY OF EXCEEDANCES OF THE ENVIRONMENTAL QUALITY PERFORMANCE LIMIT

Results for water quality, 1-hour TSP, 24-hour TSP and construction noise monitoring complied with the Action/ Limit levels in the reporting period.

Cumulative statistics on exceedances is provided in *Appendix N*.

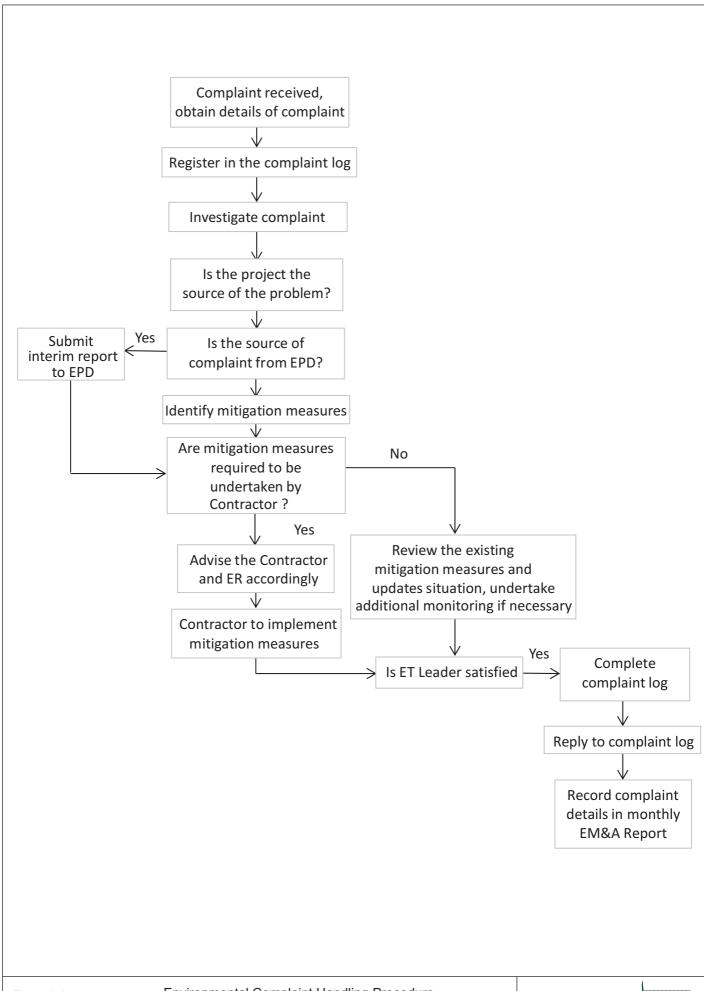
# 2.10 SUMMARY OF COMPLAINTS, NOTIFICATION OF SUMMONS AND SUCCESSFUL PROSECUTIONS

The Environmental Complaint Handling Procedure is provided in *Figure 2.6*.

There was one (1) complaint received from EPD on 13 December 2016 regarding hammering noise nuisance generated during midnights in the reporting period. Upon investigation, the complaint is considered not related to this Project. Detailed investigation report is presented in *Appendix N*.

There was no notification of summons or successful prosecution recorded in the reporting period.

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





#### 3 FUTURE KEY ISSUES

#### 3.1 CONSTRUCTION PROGRAMME FOR THE COMING MONTH

As informed by the Contractor, the major works for this Contract in January 2017 will be:

#### Marine Works

- Uninstallation of marine piling platform;
- Pier construction;
- Launching gantry operation; and
- Installation of deck segment and pier head segment.

#### Land-based Works

- Pier construction;
- Re-alignment of Cheung Tung Road;
- Road works along North Lantau Highway;
- Installation of pier head and deck segments; and
- Slope work of Viaducts A, B & C.

#### 3.2 KEY ISSUES FOR THE COMING MONTH

Potential environmental impacts arising from the above upcoming construction activities in the next reporting month of January 2017 are mainly associated with dust, noise, marine water quality, marine ecology and waste management issues.

#### 3.3 MONITORING SCHEDULE FOR THE COMING MONTH

The tentative schedules for environmental monitoring in January 2017 are provided in *Appendix F*.

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#### 4 CONCLUSIONS AND RECOMMENDATIONS

#### 4.1 CONCLUSIONS

This Thirty-eighth Monthly EM&A Report presents the findings of the EM&A activities undertaken during the period from 1 to 31 December 2016 in accordance with the Updated EM&A Manual and the requirements of the Environmental Permits (EP-354/2009/D and EP-353/2009/K).

Air quality (1-hour TSP and 24-hour TSP), noise, water quality (DO, turbidity and SS) and dolphin monitoring were carried out in the reporting month. Results for water quality, air quality and noise monitoring complied with the Action and Limit levels in the reporting period.

Six (6) groups of 24 Chinese White Dolphins were sighted during the two sets of monitoring surveys in December 2016. During this month of dolphin monitoring, no unacceptable impact from the construction activities of the TM-CLKL Southern Connection Viaduct Section on Chinese White Dolphins was noticeable from general observations.

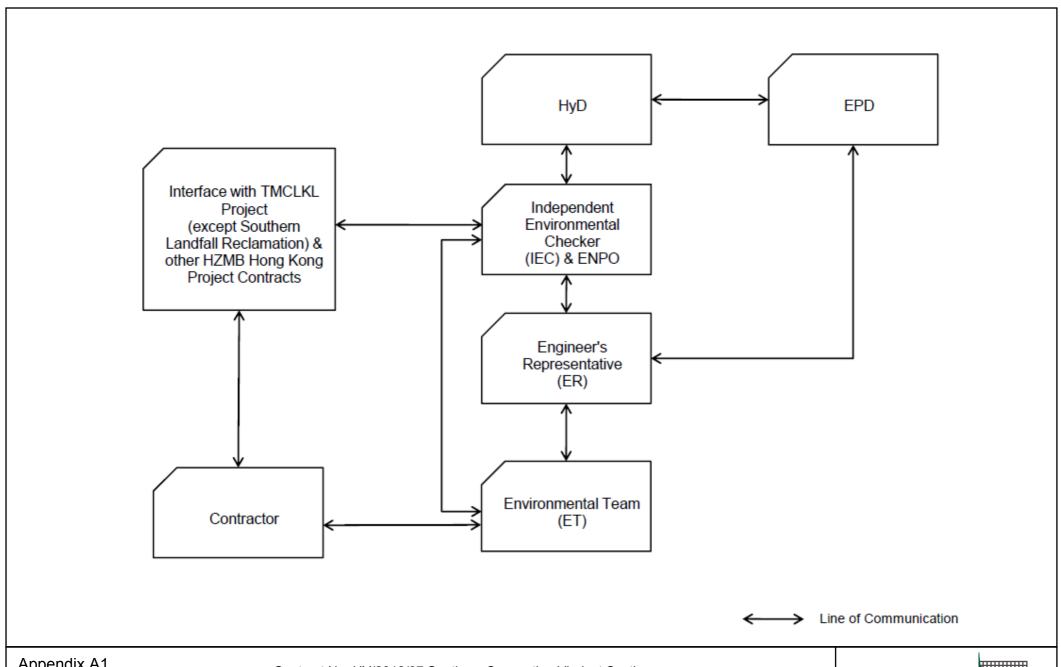
Environmental site inspection was carried out four (4) times in December 2016. Recommendations on remedial actions were given to the Contractor for the deficiencies identified during the site audits.

There was one (1) complaint received from EPD on 13 December 2016 regarding hammering noise nuisance generated during midnights in the reporting period. Upon investigation, the complaint is considered not related to this Project. There was no notification of summons or successful prosecution recorded in 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



Appendix A1

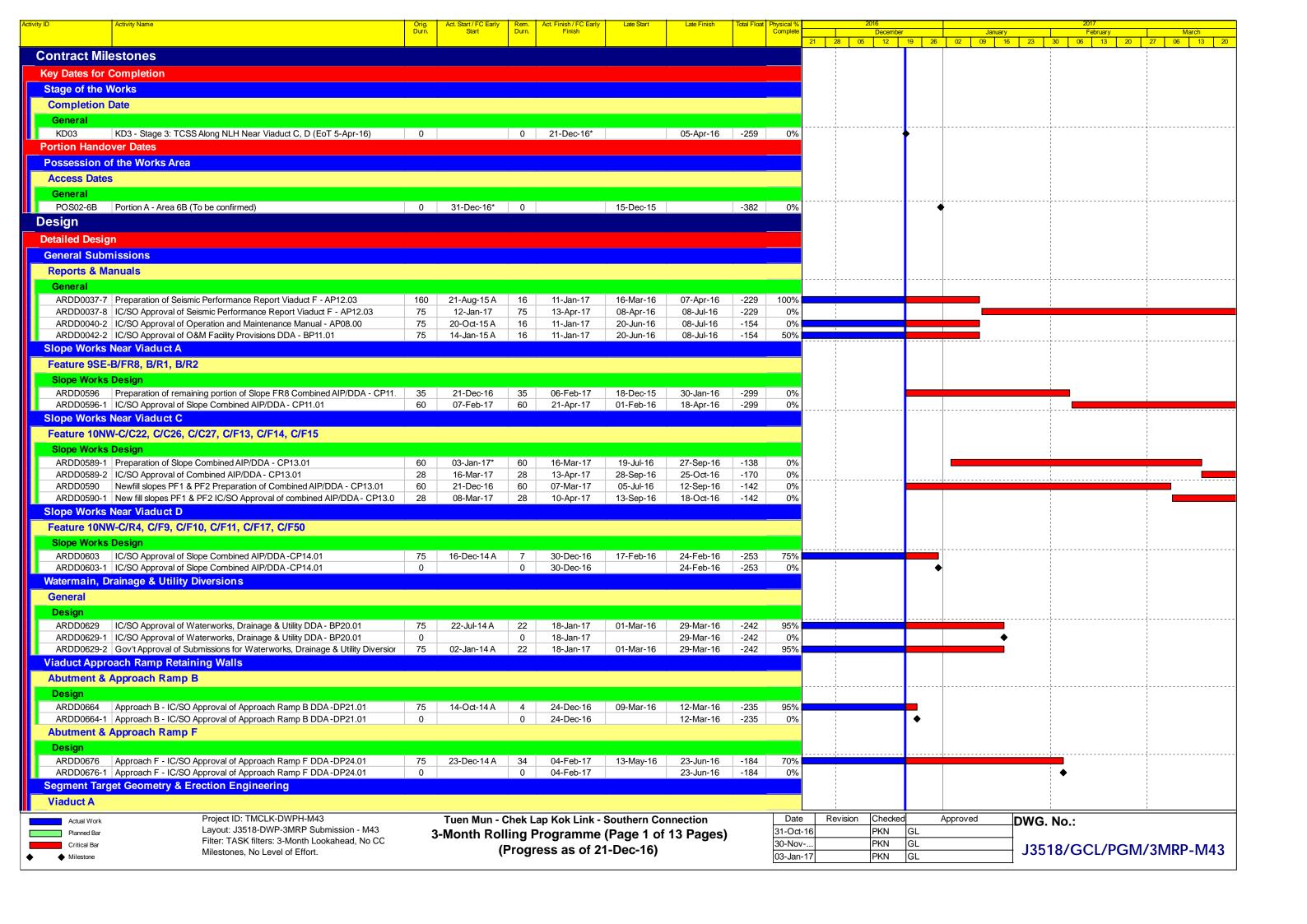
Contract No. HY/2012/07 Southern Connection Viaduct Section **Project Organization** 

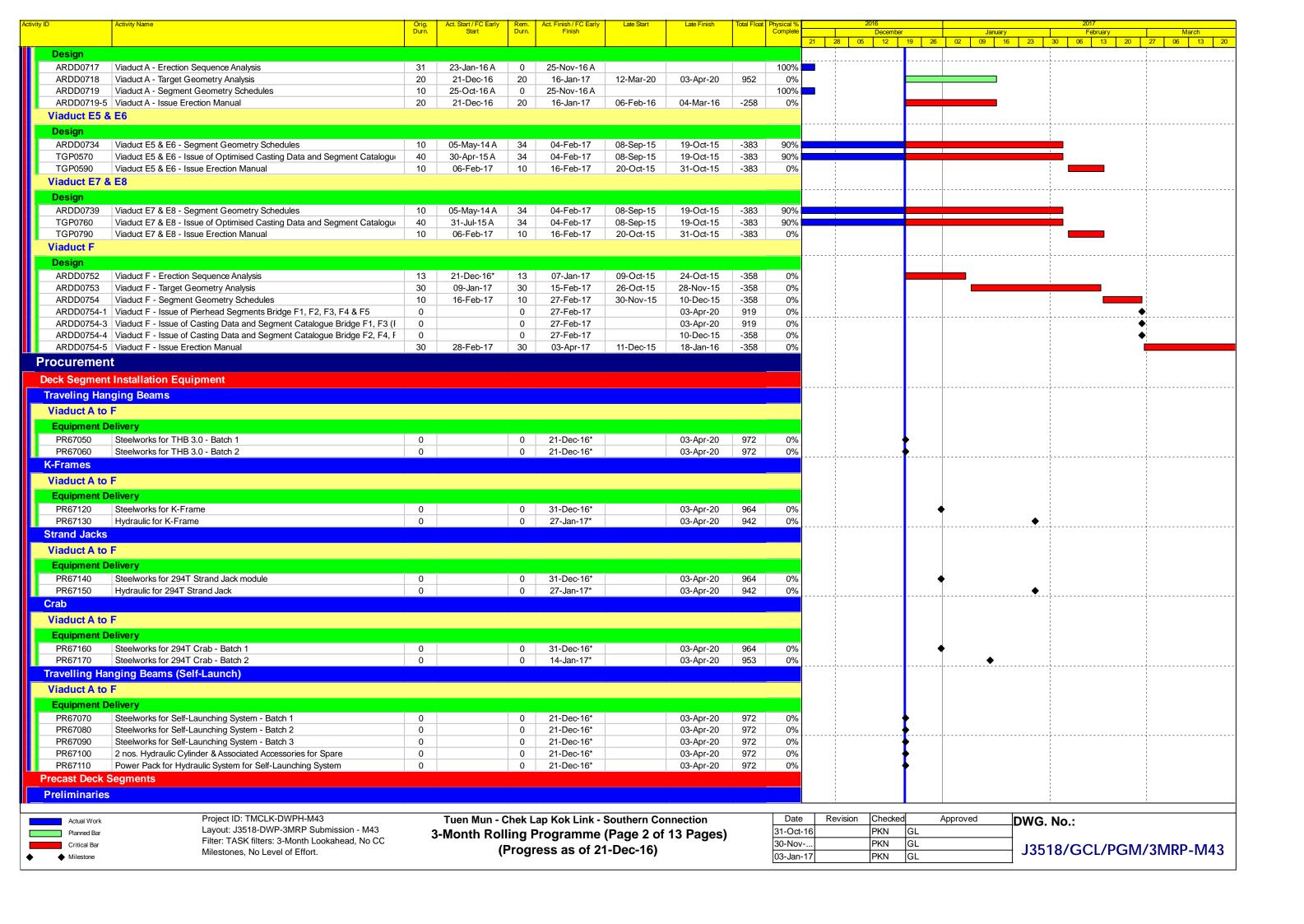
**Environmental** Resources Management

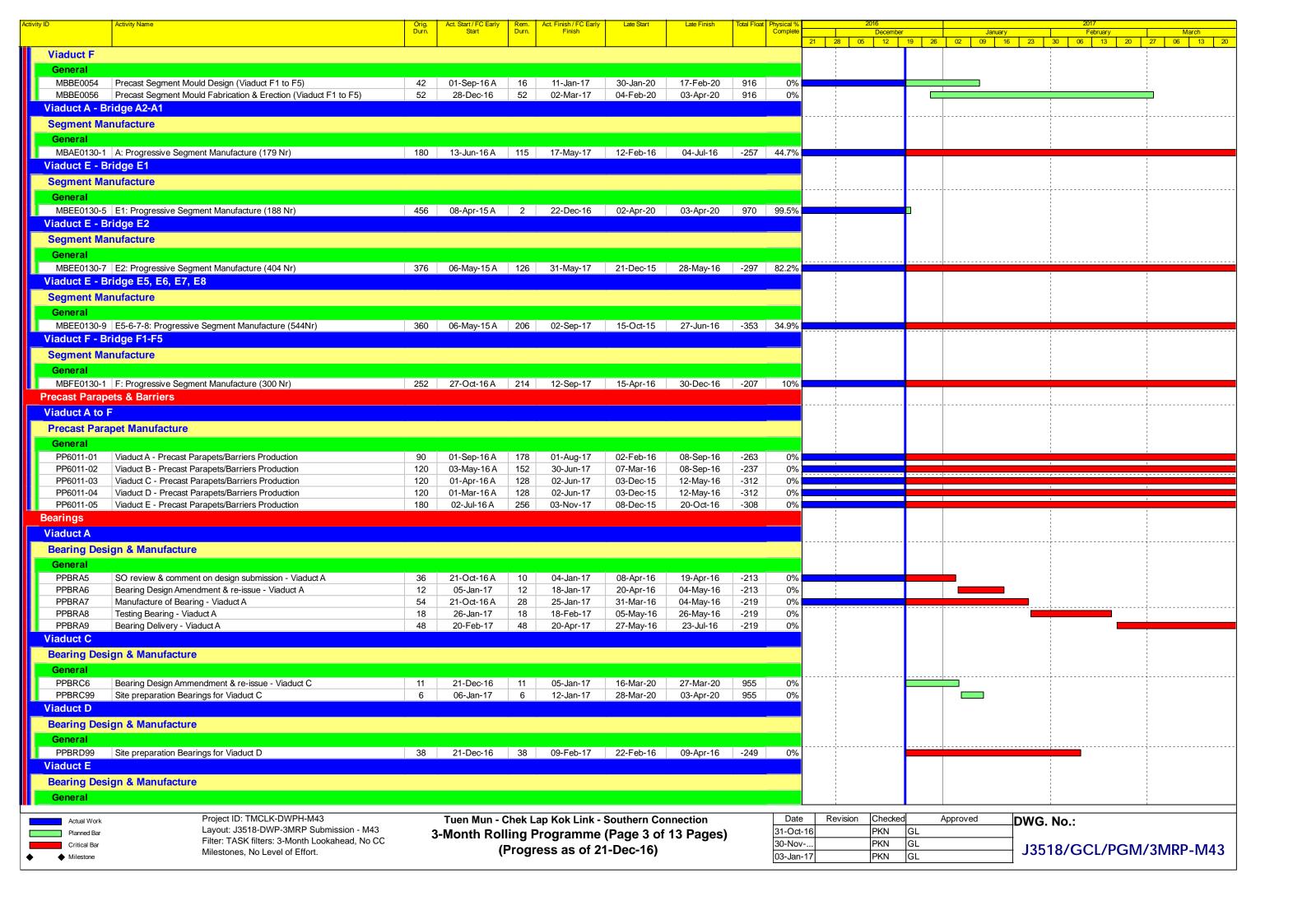


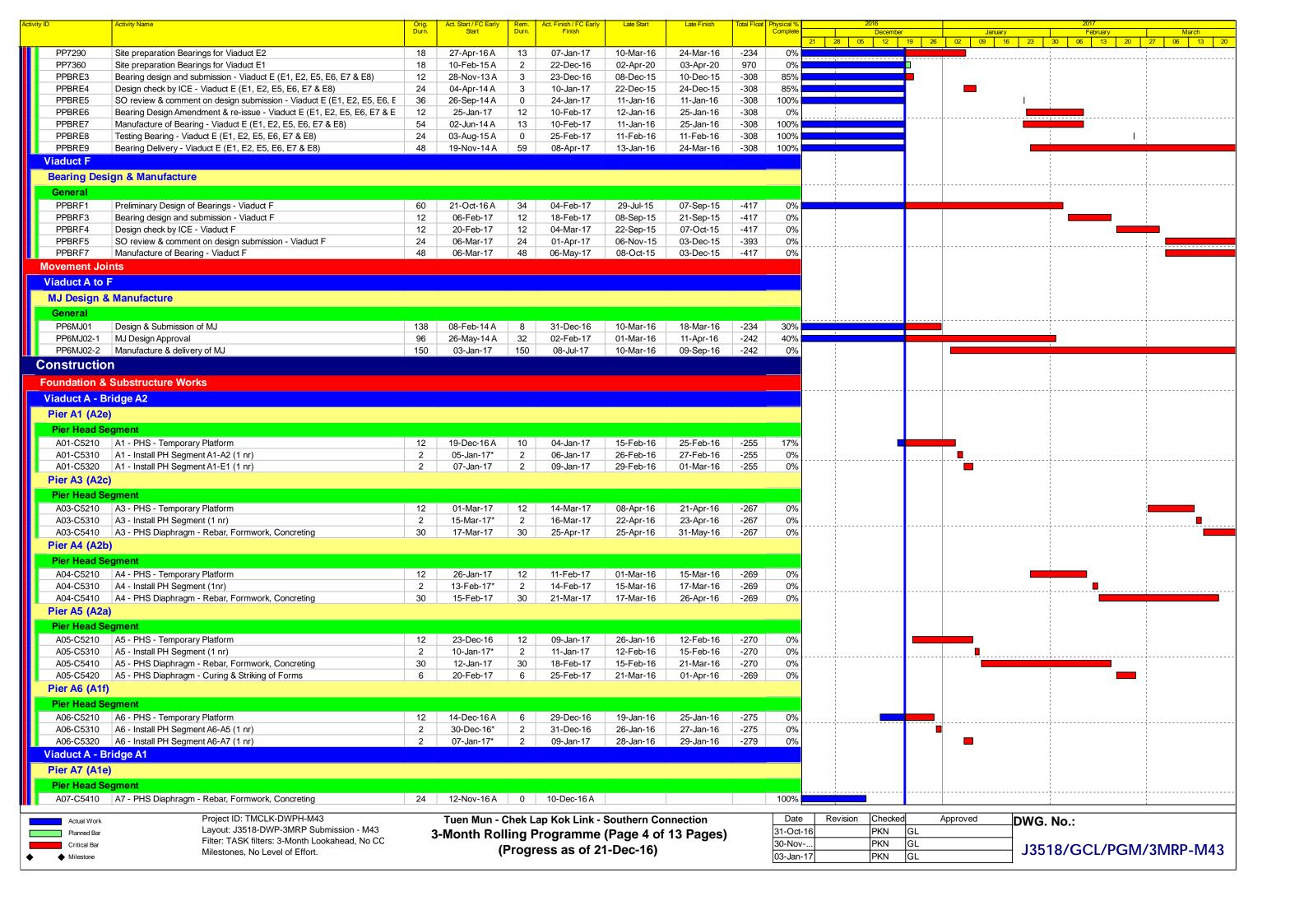
## Appendix B

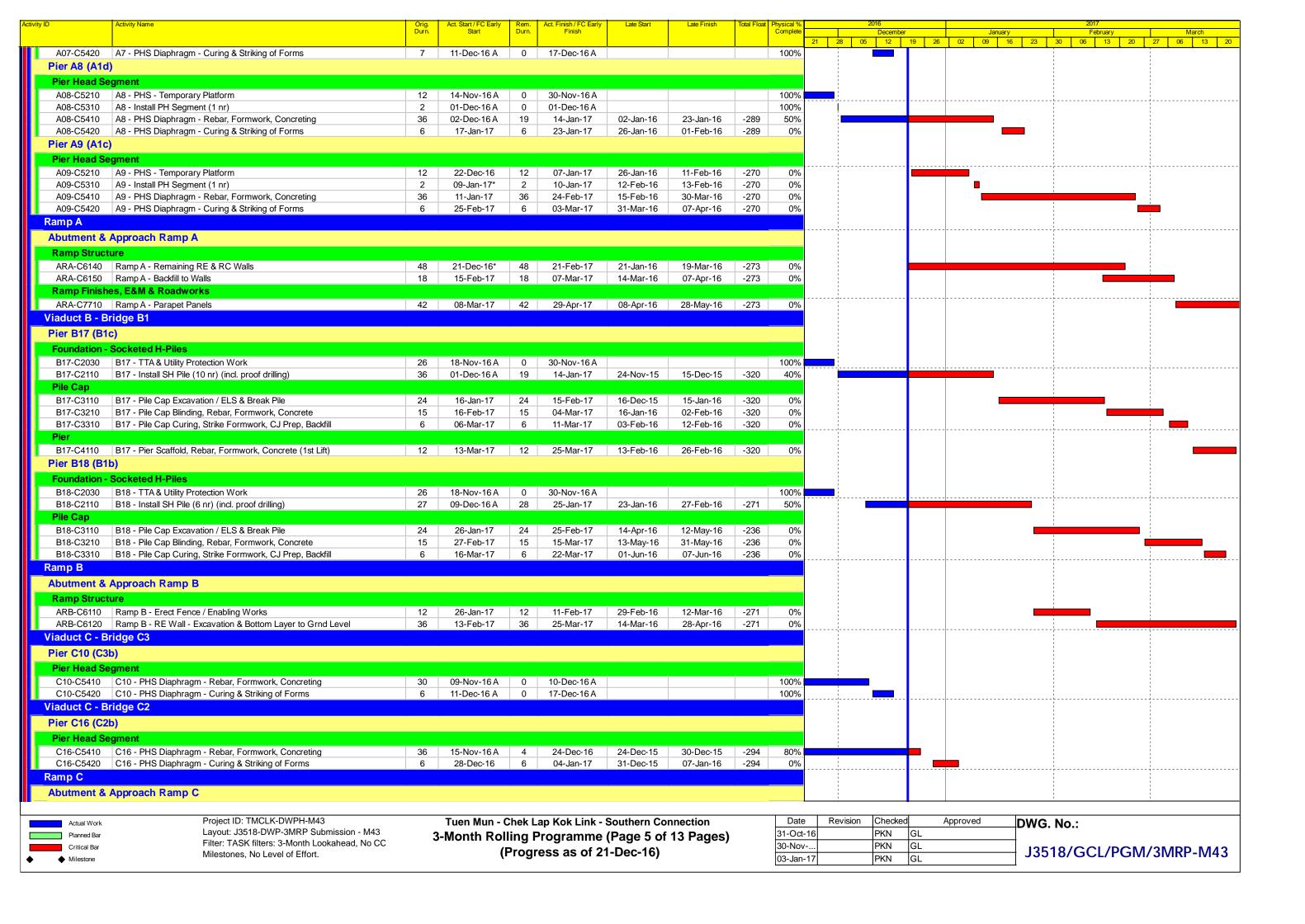
## Three-Month Rolling Construction Programme

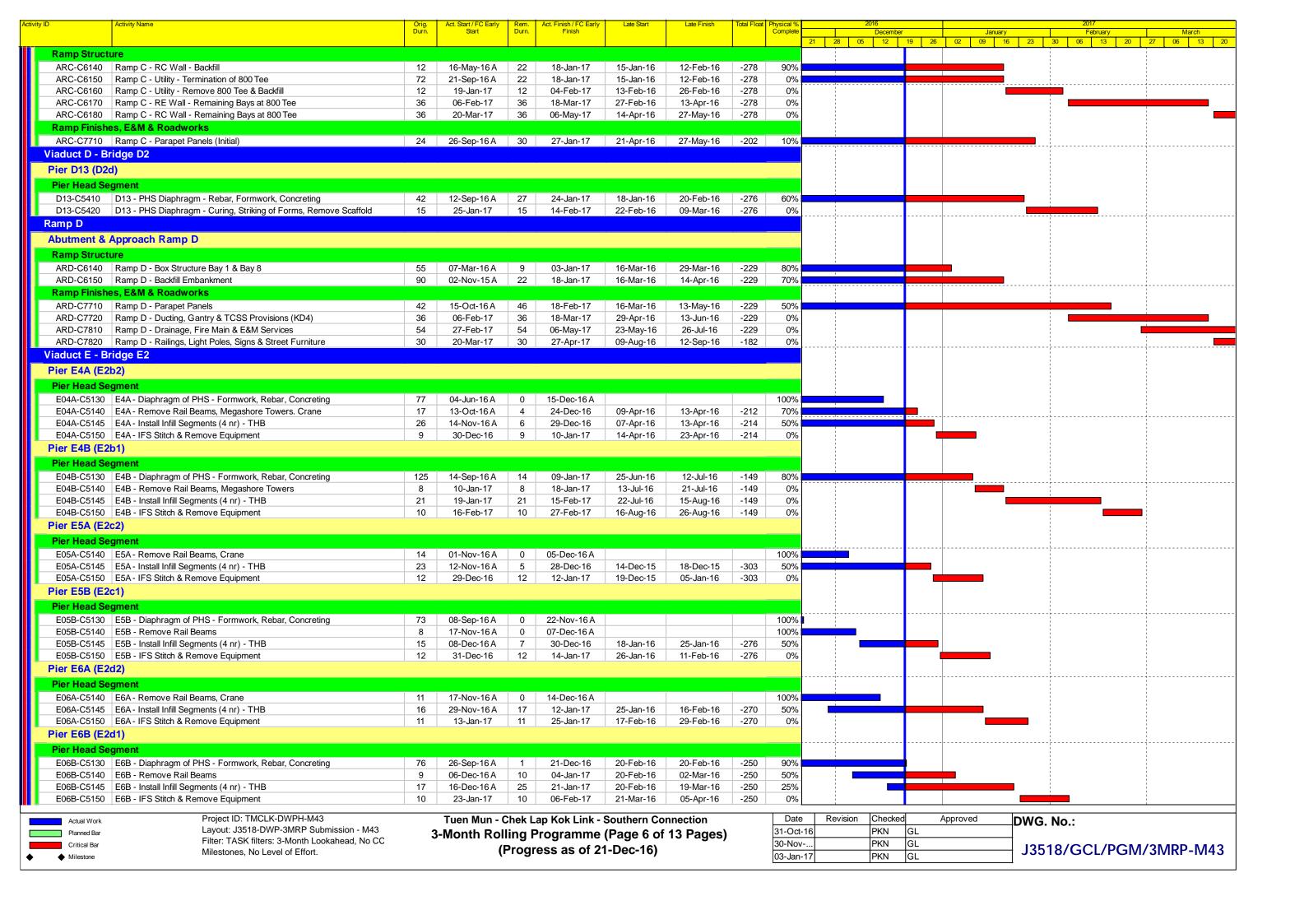


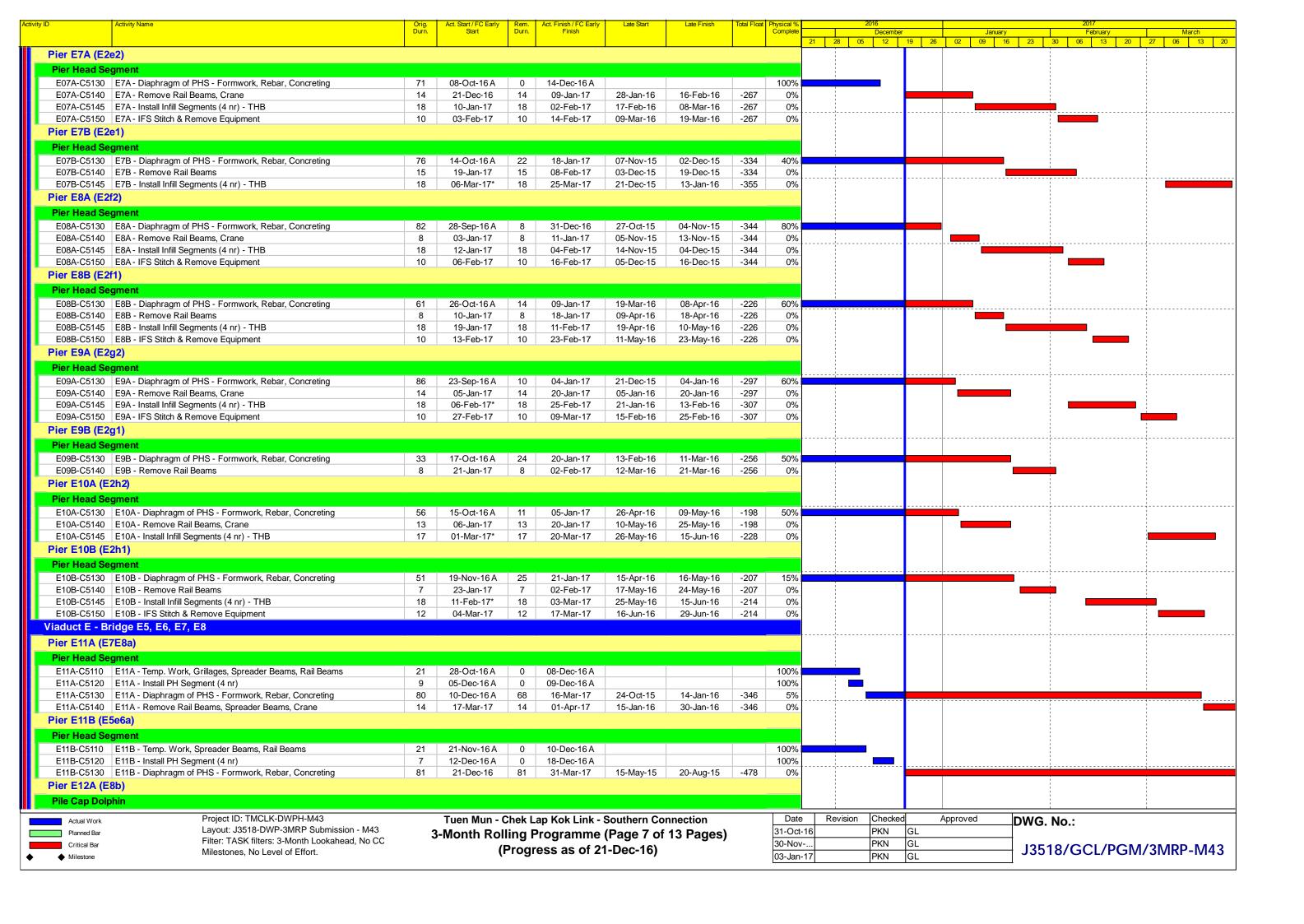


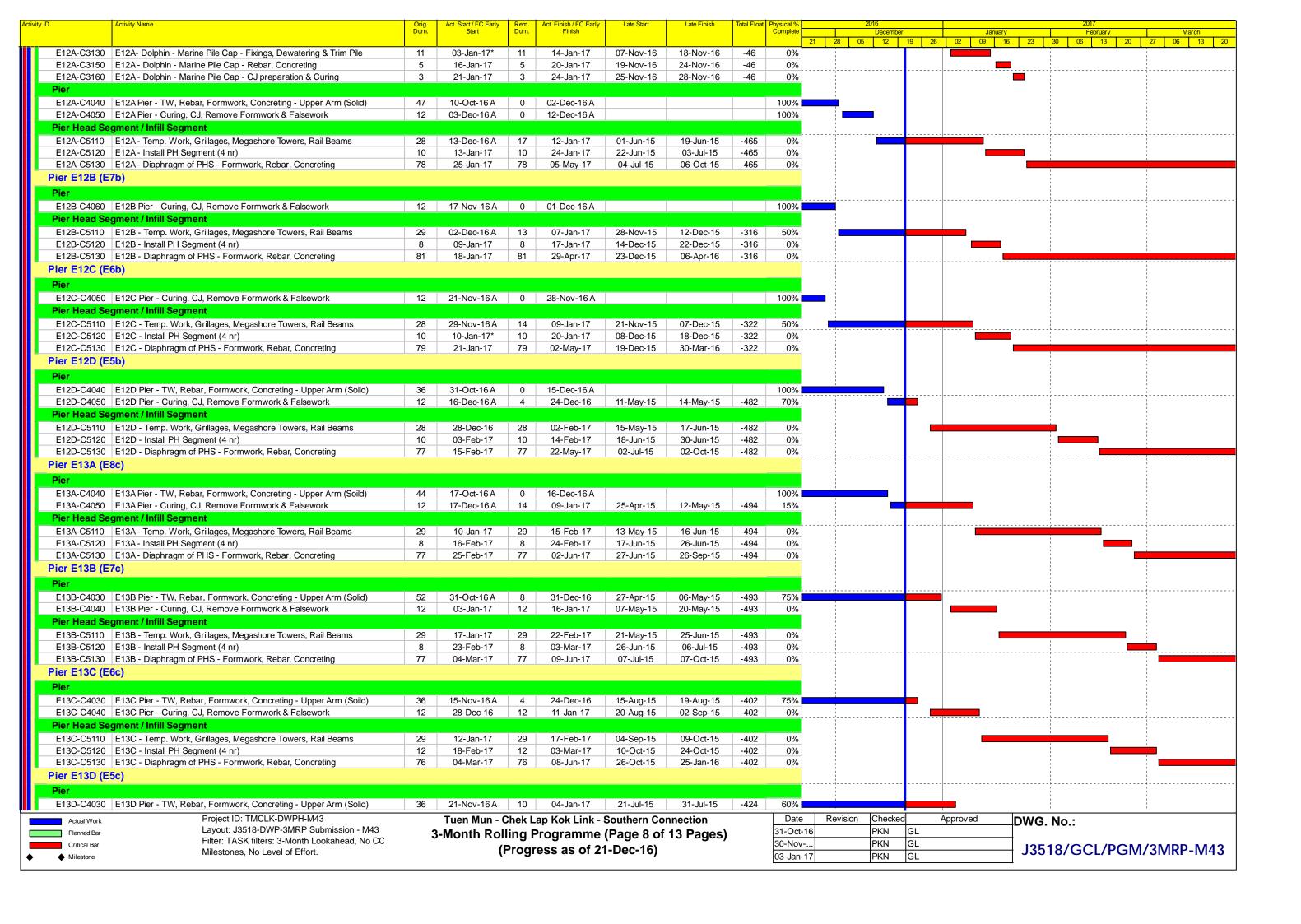


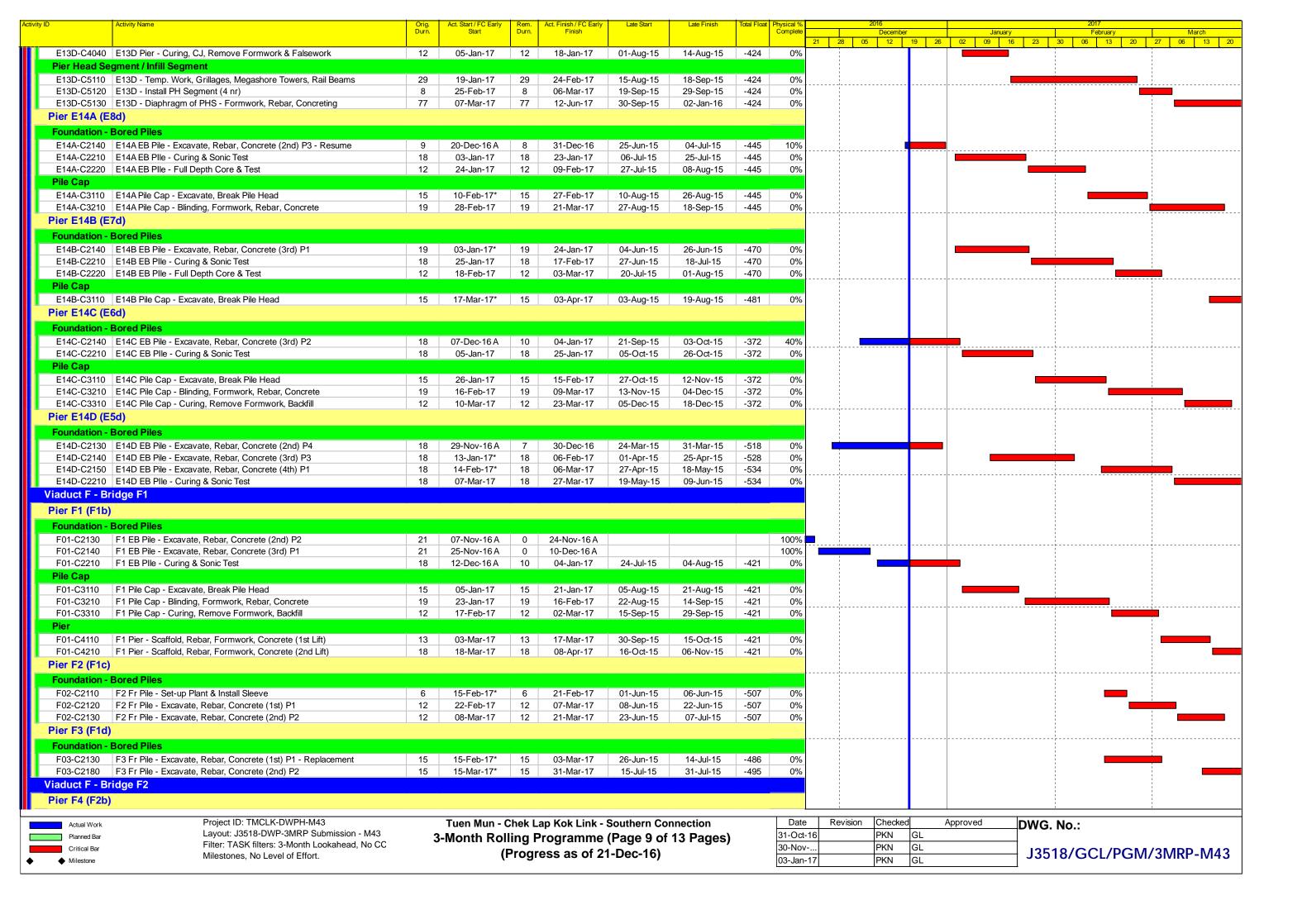


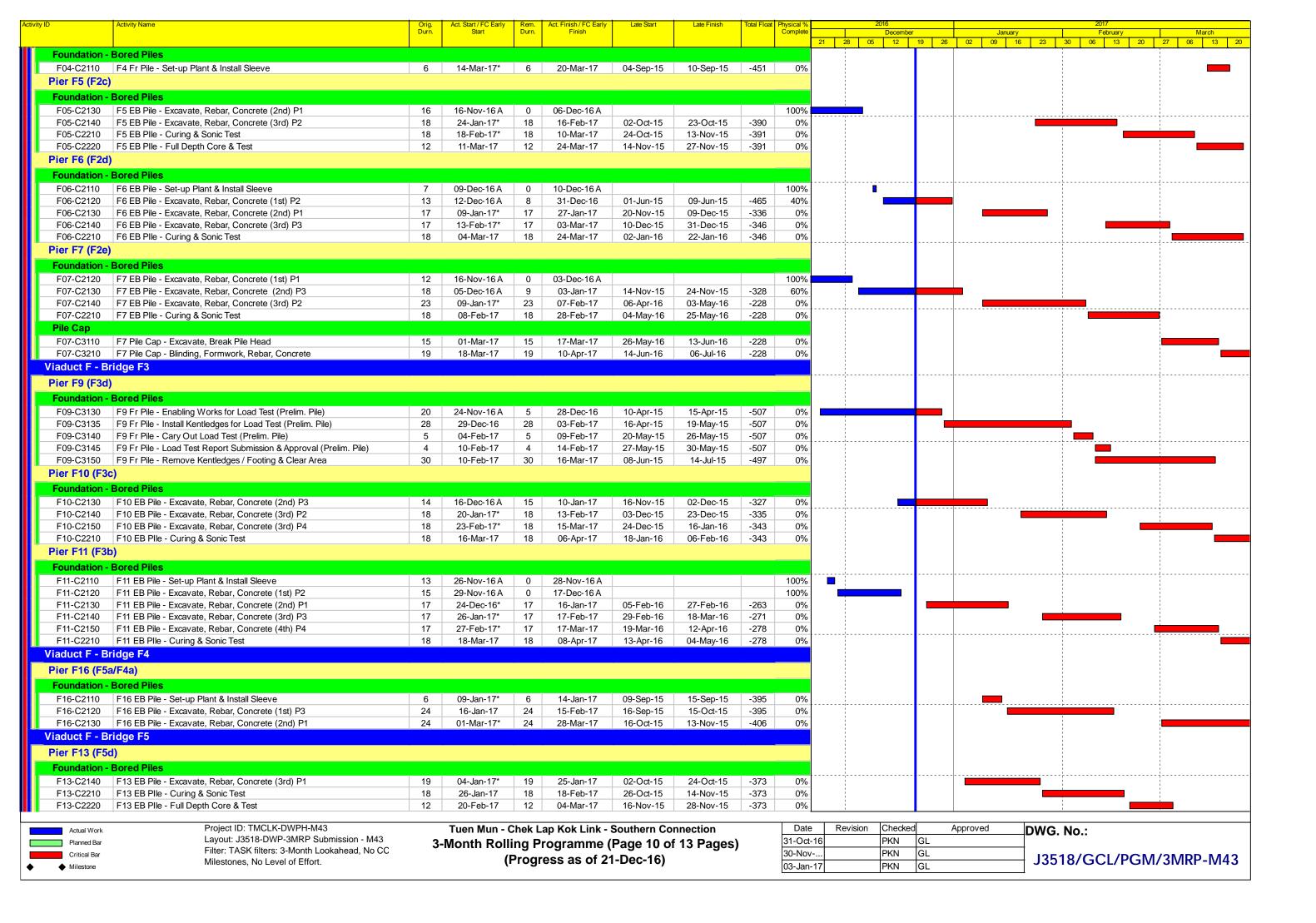


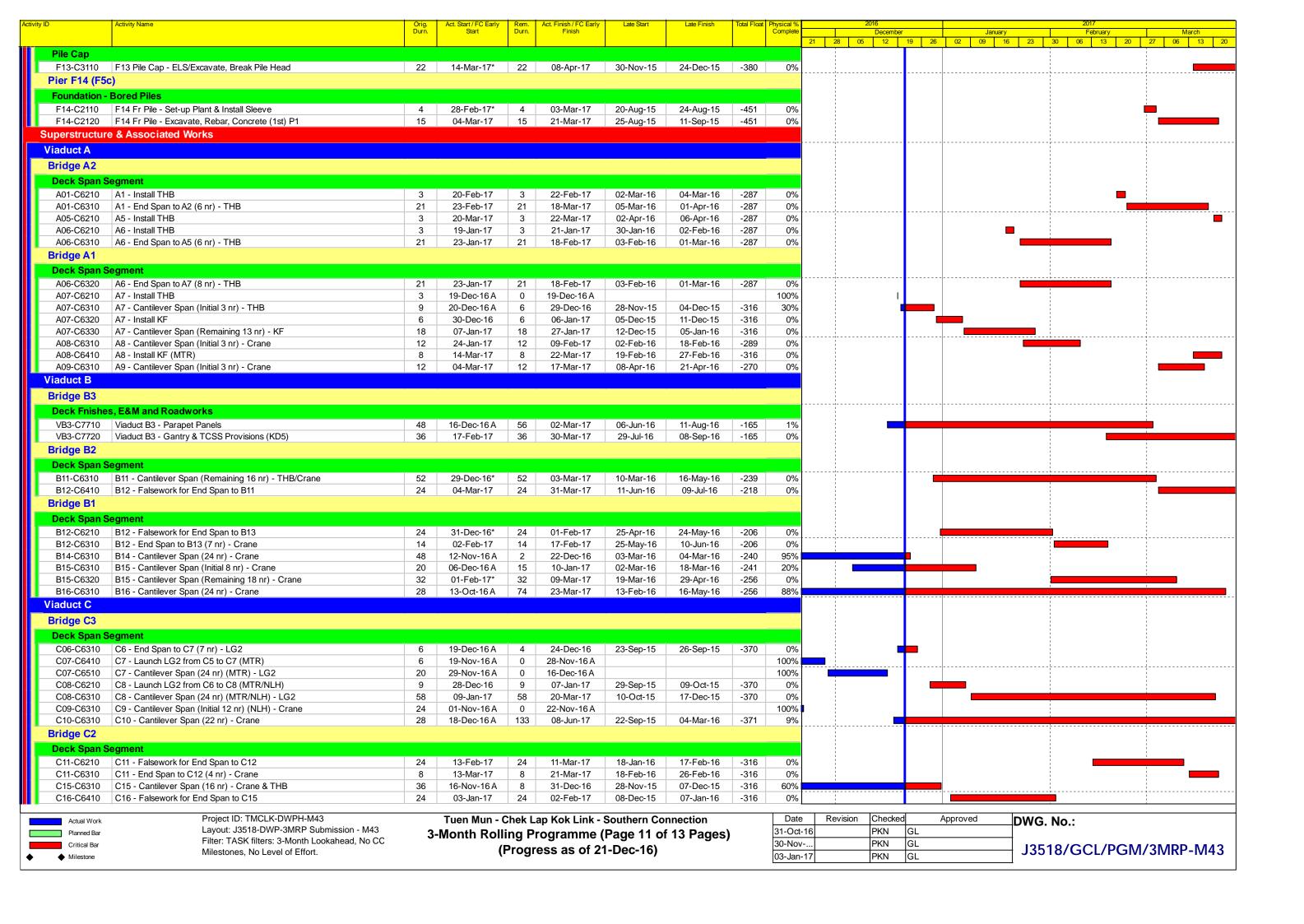


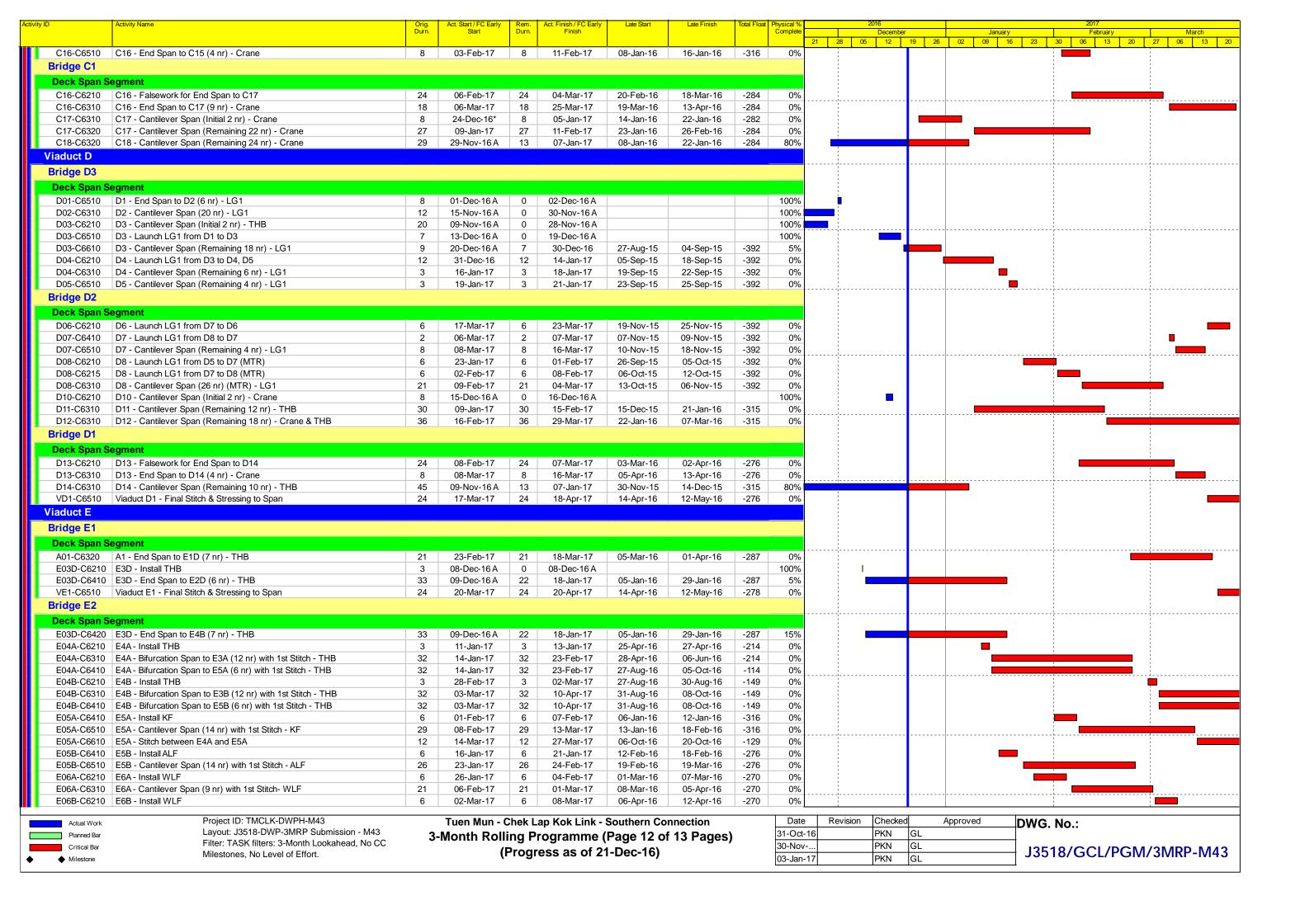


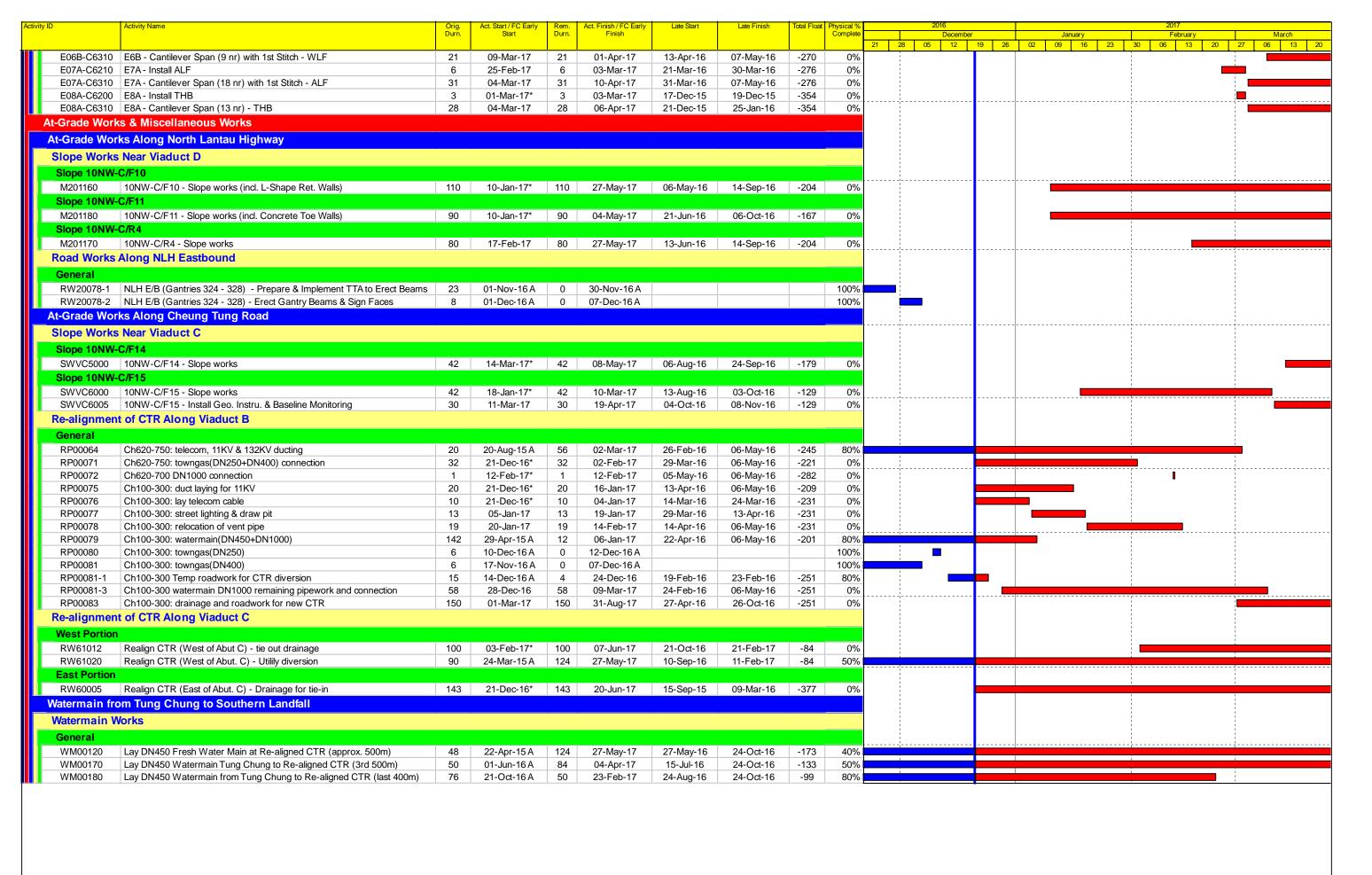












Actual Work
Planned Bar
Critical Bar

Milestone

Project ID: TMCLK-DWPH-M43 Layout: J3518-DWP-3MRP Submission - M43 Filter: TASK filters: 3-Month Lookahead, No CC Milestones, No Level of Effort. Tuen Mun - Chek Lap Kok Link - Southern Connection
3-Month Rolling Programme (Page 13 of 13 Pages)
(Progress as of 21-Dec-16)

Date	Revision	Checked	Approved	DWG. No.:
31-Oct-16		PKN	GL	
30-Nov		PKN	GL	J3518/G
03-Jan-17		PKN	GL	13010/G

J3518/GCL/PGM/3MRP-M43

## Appendix C

# Environmental Mitigation and Enhancement Measure Implementation Schedules

(In reference to CINOTECH (2011) Agreement No. CE35/2011 EP Baseline Environmental Monitoring for Hong Kong-Zhuhai-Macao Bridge Tuen Mun-Chep Lap Kok Link – Investigation. Updated EM&A Manual for Tuen Mun-Chek Lap Kok Link)

### Contract No. HY/2012/07

## Tuen Mun – Chek Lap Kok Link Southern Connection Viaduct Section

### Environmental Mitigation and Enhancement Measure Implementation Schedule

EIA Reference	EM&A Manual	<b>Environmental Protection Measures</b>	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status	
	Reference					D	С	О		
Air Qualit	Y									
4.8.1	3.8	An effective watering programme of eight 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		<b>&lt;&gt;</b>	
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		<b>*</b>	
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		<b>✓</b>	
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		<b>✓</b>	

EIA Reference	EM&A Manual		2 0	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status
	Reference					D	C	О	
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		<b>✓</b>
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		<b>✓</b>
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		<b>✓</b>
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>✓</b>
Noise		i	<u>.i.</u>	.i	<u>.i.</u>		.1		i
5.11	Section 4	Noise monitoring	All existing representative sensitive receivers / during North Lantau Viaduct construction	Contractor	EM&A Manual		Y		<b>✓</b>
Water Qua	LITY	i.	.i.	.i.	.i.				.i
General Mai	rine Works								
6.10	-	Bored piling to be undertaken within a metal casing.	Marine viaducts of TM- CLKL and HKLR/ bored piling	Contractor	TM-EIAO		Y		<b>~</b>
6.10	-	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		<b>✓</b>

EIA Reference	EM&A Manual	<b>Environmental Protection Measures</b>	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status
	Reference					D	С	О	
6.10	-	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		<b>✓</b>
6.10	-	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		<b>✓</b>
6.10	-	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		<b>✓</b>
6.10	-	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		<b>✓</b>
6.10	-	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		<b>✓</b>
6.10	-	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		<b>✓</b>
Temporary S	Staging work	å.	ık		.d.	ā			i
	5.2	Regular inspection for the accumulation of floating refuse and collection of floating refuse if required	During temporary staging works	Contractor			Y		✓
	5.2	Provision of temporary drainage system on the temporary staging for collection of construction site runoff to allow appropriate treatment before discharge into the sea	During temporary staging works	Contractor			Y		<>
	5.2	Wastewater generated from construction works such as bored / drilling water will be collected, treated, neutralized and de-silted through silt trap or sedimentation tank before disposal	During temporary staging works	Contractor			Y		<b>✓</b>
	5.2	One additional water quality monitoring station is	During temporary	Contractor			Y		✓

EIA Reference	EM&A Manual Reference		Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status
						D	C	О	
		proposed at station SR4a In case elevated SS or turbidity is identified during the water quality monitoring, the source of pollution will be tracked down and be removed as soon as possible. In case depletion of dissolved oxygen is identified, artificial aeration will be arranged at the monitoring station SR4a,	staging works						
Land Works									
6.10	-	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		Υ		✓
6.10	-	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		✓
6.10	-	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		✓
6.10	-	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		✓
6.10	-	Temporary access roads should be surfaced with crushed stone or gravel.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓
6.10	-	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		✓
6.10	-	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		✓

EIA Reference	EM&A Manual	<b>Environmental Protection Measures</b>	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Imp	lement Stages		Status
	Reference					D	С	О	
6.10	-	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		<>
6.10	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		<b>✓</b>
6.10	-	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		✓
6.10	-	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		Υ		✓
6.10	-	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		✓
6.10	-	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		✓
6.10	-	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		✓
6.10	-	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 offsite disposal.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		<b>✓</b>
6.10	-	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		<b>✓</b>
6.10	-	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		✓

EIA Reference	EM&A Manual		Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Imp	lemen Stage		Status
	Reference					D	C	О	
6.10	-	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		<b>✓</b>
6.10	-	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		✓
6.10	-	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		Υ	<b>✓</b>
6.10	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		<b>✓</b>
Water Qual	ity Monitoring	3	···		····			-	-
6.10	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>✓</b>
ECOLOGY									
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	Υ	✓
8.14	6.3	Specification for bored piling monitoring	Detailed Design	Design Consultant	TMEIA	Y			n/a
8.14	6.3	Implement any recommendations of the bored piling monitoring	Southern marine viaduct/Throughout	Contractor	TMEIA		Y		<b>✓</b>

EIA Reference	EM&A Manual	nnual	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Imp	lemen Stage		Status
	Reference					D	С	О	
			construction during bored piling						
8.14	6.3,6.5	Avoidance of peak CWD calving season in May and June for driving of metal caissons during bored piling works	Southern marine viaduct/ May and June during bored piling	Contractor	TMEIA		Υ		n/a
8.14	6.3,6.5	Specification and implementation of 250m dolphin exclusion zone.	All marine bored piling and temporary staging works areas/Detailed Design/during all marine bored piling and temporary staging works	Design Consultant/ Contractor	TMEIA	Y	Υ		<b>*</b>
8.15	6.3, 6.5	Specification and deployment of an artificial reef of an area of $3,600 \text{ m}^2$ 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 enforced 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 marine bored piling and the whole lifespan of temporary staging works.	All areas/ Detailed Design/during marine bored piling and temporary staging works	Design Consultant/ Contractor	TMEIA	Y	Y		<b>✓</b>
8.15	6.3, 6.4	Pre-construction phase survey and coral translocation	Tai Ho Wan (donar site) and Yam Tsui Wan (receptor site) / Detailed Design/Prior to construction	Design Consultant/ Contractor	TMEIA	Y	Υ		n/a
8.15	6.5	Audit coral translocation success	Yam Tsui Wan (receptor site)/Post translocation	Contractor	TMEIA		Y		Completed in October 2014
7.13	6.5	Undertaken gabion wall works in Stream NL1 in the dry season	North Lantau slope works/dry	Contractor	TMEIA		Y		n/a

EIA Reference	EM&A Manual	<b>Environmental Protection Measures</b>	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Imp	lemen Stage		Status
	Reference					D	С	О	•
			season/construction phase						<u> </u>
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. To be approved by AFCD/LCSD
7.13	6.5	Spoil heaps shall be covered at all times.	All areas / Throughout construction period	Contractor	TMEIA		Y		<b>✓</b>
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>✓</b>
LANDSCAPE	AND VISUAL		.i.		.i.			<u>L</u>	i.
10.9	7.6	Round angle, patterned finishes, and oval shaped pier were considered in the viaduct design, and further details will be developed under ACABAS submission (DM3)	All areas/detailed design	Design Consultant	TMEIA	Y			n/a
10.9	7.6	Details of the street furniture will be developed in the detailed design stage (DM4)	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	Existing trees on boundary of the Project Area shall be carefully protected during construction. Detailed Tree Protection Specification shall be provided in the Contract Specification. Under this specification, the Contractor shall be required to submit, for approval, a detailed working method statement for the protection of trees	All areas/detailed design/ during construction	Design Consultant/ Contractor	TMEIA	Y	Y		<b>*</b>

EIA Reference	EM&A Manual	Environmental Protection Measures	Location/ Timing	Implementation Agent	n Relevant Standard or Requirement	Imp	lemen Stage		Status
	Reference					D	С	О	
		prior to undertaking any works adjacent to all retained trees, including trees in contractor's works areas. (Tree protection measures will be detailed at Tree Removal Application stage) (CM1)							
10.9	7.6	Trees unavoidably affected by the works shall be transplanted where practical. Trees will be transplanted straight to their final receptor site and not held in a temporary nursery. A detailed Tree Transplanting Specification shall be provided in the Contract Specification. Sufficient time for necessary tree root and crown preparation periods shall be allowed in the project programme (CM2)	All areas/detailed design/during construction	Design Consultant/ Contractor	TMEIA	Y	Υ		✓ Tree transplanted as Contract Specification
10.9	7.6	Hillside and roadside screen planting to proposed roads, associated structures and slope works (CM3).	All areas/detailed design/during construction/post construction	Design Consultant/	TMEIA	Y	Y		<b>✓</b>
10.9	7.6	Hydroseeding or sheeting of soil stockpiles with visually unobtrusive material (in earth tone) (CM4)	All areas/detailed design/during construction/post construction	Design Consultant/ Contractor	TMEIA	Y	Y		<b>⇔</b>
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		<b>✓</b>
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		<b>✓</b>
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		<b>✓</b>
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		<b>✓</b>

EIA Reference	EM&A Manual	<b>Environmental Protection Measures</b>	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status
	Reference					D	С	О	
10.9	7.6	Recycle/Reuse all felled trees and vegetation, e.g. mulching (CM9)	All areas/detailed design/ during construction	Design Consultant/ Contractor	TMEIA	Y	Y		n/a No felled trees or vegetation suitable for recycle
10.9	7.6	Compensatory tree planting shall be provided to the satisfaction of relevant Government departments. Required numbers and locations of compensatory trees shall be determined and agreed separately with Government during the Tree Felling Application process under ETWBTC 3/2006 (CM10).	All areas/detailed design/ during construction	Design Consultant/ Contractor	TMEIA	Y	Y		<b>~</b>
10.9	7.6	Re-vegetation of affected woodland/shrubland with native species (OM1)	All areas/detailed design/ during construction/ during operation	Design Consultant/ Contractor	TMEIA	Y	Υ	Υ	n/a. To be implemented by AFCD/HyD/ L CSD
10.9	7.6	Tall buffer screen tree / shrub / climber planting should be incorporated to soften hard engineering structures and facilities (OM2)	All areas/detailed design/ during construction/ during operation	Design Consultant/ Contractor	TMEIA	Y	Y	Υ	n/a To be implemented by HyD/LCSD
10.9	7.6	Streetscape elements (e.g. paving, signage, street furniture, lighting etc.) shall be sensitively designed in a manner that responds to the local context, and minimises potential negative landscape and visual impacts.  Lighting units should be directional and minimise unnecessary light spill (OM3)	All areas/detailed design/ during construction / during operation	Design Consultant/ Contractor	TMEIA	Y	Y	Y	n/a. To be implemented by HyD/LCSD
10.9	7.6	Structure, ornamental tree / shrub / climber planting should be provided along roadside amenity strips, central dividers and newly formed slopes to enhance the townscape quality and further greenery enhancement	All areas/detailed design/ during construction / during operation	Design Consultant/ Contractor	TMEIA	Y	Y	Y	n/a. To be implemented by

EIA Reference	EM&A Manual	ual	Location/ Timing Implementation Agent	Implementation Relevant Standard or Requirement	Implementation Stages			Status	
	Reference					D	С	О	-
		(OM4)							HyD/LCSD
10.9	7.6	Aesthetically pleasing design (visually unobtrusive and non-reflective) as regard to the form, material and finishes	All areas/detailed design/ during construction / during operation	Design Consultant/ Contractor	TMEIA	Y	Y	Υ	n/a. To be implemented by HyD
Waste									
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		
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		<b>✓</b>
12.6	8.1	The extent of cutting operation should be optimised	All areas / throughout	Contractor	TMEIA		Y		✓
			.4		.4		4		4

EIA Reference	EM&A Manual	<b>Environmental Protection Measures</b>	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Imp	lement Stages		Status
	Reference					D	С	О	
		where possible. Earth retaining structures and bored pile walls should be proposed to minimise the extent of cutting.	construction period						
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		<b>✓</b>
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			n/a
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		<>
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		<b>~</b>
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		<b>✓</b>
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	All areas / throughout construction period	Contractor	TMEIA		Y		<b>✓</b>

EIA Reference	EM&A Manual	nual	Location/ Timing	Implementation Agent	Implementation Relevant Standard or Requirement	Imp	lemen Stage		Status
	Reference					D	С	О	
		materials should avoid over-ordering and wastage.							
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:  - suitable for the substance to be held, resistant to corrosion, maintained in good conditions and securely closed;  - Having a capacity of <450L unless the specifications have been approved by the EPD; and  - Displaying a label in English and Chinese according to the instructions prescribed in Schedule 2 of the Regulations. Clearly labelled and used solely for the storage of chemical wastes;  - Enclosed with at least 3 sides;  - 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;	All areas / throughout construction period	Contractor	TMEIA		Y		<>

EIA Reference	EM&A Manual	<b>Environmental Protection Measures</b>	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Imp	lement Stages		Status
	Reference					D	С	О	
		<ul> <li>Adequate ventilation;</li> <li>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>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		Υ		<b>~</b>
12.6	8.1	Night soil should be regularly collected by licensed collectors.	All areas / throughout construction period	Contractor	TMEIA		Y		✓
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 Bylaws. 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		Υ		
12.6	8.1	All waste containers shall be in a secure area on hard standing;	All areas / throughout construction period	Contractor	TMEIA		Y		<b>✓</b>
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		<b>~</b>
12.6	8.1	Office wastes can be reduced by recycling of	Site Offices/	Contractor	TMEIA		Υ		✓

EIA Reference	EM&A Manual	ıal	, ,	1	Relevant Standard or Requirement	Implementation Stages			Status
	Reference					D	С	О	
		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.	throughout construction period						
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		Υ		<b>✓</b>
CULTURAL H	ERITAGE								
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

#### Notes:

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

Note: Funding Agent for all mitigation measures will be the Highways Department of the Hong Kong SAR Government

#### Status:

- ✓ 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

### Appendix D

### Summary of Action and Limit Levels

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

Parameters	Action	Limit
24 Hour TSP Level in μg/m³	ASR9A/ASR8A = 178 ASR9C/ASR8/ASR9 = 178	260
1 Hour TSP Level in $\mu g / m^3$	ASR9A/ASR8A = 394 ASR9C/ASR8/ ASR9 = 393	500

## Table D2 Action and Limit Levels for Construction Noise (0700-1900 hrs of normal weekdays)

Time Period	Action	Limit
0700-1900 hrs on normal weekdays	When one documented complaint is received	75* dB(A)

### Table D3 Action and Limit Levels for Water Quality

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

#### 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

Para	meter	Action Level#	Limit Level#
(e)	The 1%-ile of baseline dat	a for surface and mide	lle DO is 4.2 mg/L, whilst for bottom DO
	is 3.6 mg/L.		-

### Table D4 Action and Limit Levels for Impact Dolphin Monitoring

	North Lantau Social Cluster			
	NEL	NWL		
Action Level	STG < 70% of baseline &	STG < 70% of baseline &		
	ANI < 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 D5 Derived Value of Action Level (AL) and Limit Level (LL)

	North Lanta	u Social Cluster		
	NEL	NWL		
Action Level	STG < 4.2 & ANI< 15.5	STG < 6.9 & ANI < 31.3		
Limit Level	[STG < 2.4	4 & ANI <8.9]		
	and			
	[STG < 3.9 & ANI <17.9]			

### Appendix E

### Calibration Certificates of Monitoring Equipments

### <u>High-Volume TSP Sampler</u> <u>5-Point Calibration Record</u>

Location : ASR8(A)
Calibrated by : P.F.Yeung
Date : 28/11/2016

Sampler

Model : TE-5170 Serial Number : S/N 3956

Calibration Orfice and Standard Calibration Relationship

Serial Number : 2454

 Service Date
 : 24 Mar 2015

 Slope (m)
 : 2.09532

 Intercept (b)
 : -0.03812

 Correlation Coefficient(r)
 : 0.99994

**Standard Condition** 

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

Calibration Condition

Pa (hpa) : 1017 Ta(K) : 292

Resistance Plate dH [green liquid]		Z	X=Qstd	IC	Y	
(inch water)			(cubic meter/min)	(chart)	(corrected)	
1	18 holes	11.4	3.418	1.657	56	56.68
2	13 holes	9.3	3.087	1.499	50	50.61
3	10 holes	6.6	2.600	1.268	43	43.53
4	7 holes	4.5	2.147	1.053	36	36.44
5	5 holes	2.5	1.600	0.793	26	26.32

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

### Sampler Calibration Relationship (Linear Regression)

Slope(m): 34.464 Intercept(b): -0.502 Correlation Coefficient(r): 0.9990

Checked by: Magnum Fan Date: 02/12/2016

### <u>High-Volume TSP Sampler</u> <u>5-Point Calibration Record</u>

Location : ASR9
Calibrated by : P.F.Yeung
Date : 28/11/2016

Sampler

Model : TE-5170 Serial Number : S/N 3958

Calibration Orfice and Standard Calibration Relationship

Serial Number : 2454

 Service Date
 : 24 Mar 2015

 Slope (m)
 : 2.09532

 Intercept (b)
 : -0.03812

 Correlation Coefficient(r)
 : 0.99994

**Standard Condition** 

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

Calibration Condition

Pa (hpa) : 1017 Ta(K) : 292

Resi	Resistance Plate dH [green liquid]		Z	X=Qstd	IC	Y
(inch water)			(cubic meter/min)	(chart)	(corrected)	
1	18 holes	11.6	3.447	1.671	56	56.68
2	13 holes	9.5	3.120	1.515	50	50.61
3	10 holes	7.0	2.678	1.305	44	44.54
4	7 holes	4.8	2.218	1.086	35	35.48
5	5 holes	2.7	1.663	0.823	26	26.32

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

### Sampler Calibration Relationship (Linear Regression)

Slope(m):35.730 Intercept(b):-3.020 Correlation Coefficient(r): 0.9989

Checked by: Magnum Fan Date: 02/12/2016



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

### ORIFICE TRANSFER STANDARD CERTIFICATION WORKSHEET TE-5025A

Date - M Operator ======	ar 14, 201 Tisch	6 Rootsmeter Orifice I.1	_	438320 2454 =======	Ta (K) - Pa (mm) -	295 - 745.49
PLATE OR Run # 1 2 3 4 5	VOLUME START (m3)  NA NA NA NA NA	VOLUME STOP (m3)  NA NA NA NA NA	DIFF VOLUME (m3)  1.00 1.00 1.00 1.00	DIFF TIME (min)  1.4020 1.0060 0.9010 0.8590 0.7090	METER DIFF Hg (mm) 3.2 6.4 7.9 8.8 12.8	ORFICE DIFF H2O (in.) 2.00 4.00 5.00 5.50 8.00

### DATA TABULATION

Vstd	(x axis) Qstd	(y axis)	×	Va	(x axis) Qa	(y axis)
0.9866 0.9824 0.9803 0.9792 0.9738	0.7037 0.9765 1.0880 1.1399 1.3735	1.4078 1.9909 2.2259 2.3345 2.8155		0.9957 0.9914 0.9893 0.9882 0.9828	0.7102 0.9855 1.0980 1.1504 1.3862	0.8896 1.2581 1.4066 1.4753 1.7792
Qstd slop intercept coefficie	(b) = nt (r) =	2.10326 -0.06696 0.99989		Qa slope intercept coefficie	(b) =	1.31703 -0.04232 0.99989
y axis =	SQRT [H2O (P	a/760)(298/1	[a)]	y axis =	SQRT [H2O (T	 a/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 =  $1/m\{[SQRT(H2O(Pa/760)(298/Ta))] - b\}$ Qa =  $1/m\{[SQRT H2O(Ta/Pa)] - b\}$ 



### Sun Creation Engineering Limited

Calibration and Testing Laboratory

### Certificate of Calibration 校正證書

Certificate No.:

C163248

證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號: IC16-1307)

Date of Receipt / 收件日期: 10 June 2016

Description / 儀器名稱

Sound Level Calibrator

Manufacturer / 製造商

Rion

Model No. / 型號 Serial No./編號

NC-73 10997142

Supplied By / 委託者

Envirotech Services Co.

Room 113, 1/F, My Loft, 9 Hoi Wing Road, Tuen Mun,

New Territories, Hong Kong

TEST CONDITIONS / 測試條件

Temperature / 溫度 :  $(23 \pm 2)^{\circ}$ C Relative Humidity / 相對濕度 :

 $(55 \pm 20)\%$ 

Line Voltage / 電壓 :

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期

15 June 2016

TEST RESULTS / 測試結果

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

The results do not exceed manufacturer's specification.

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

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

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

Tested By

測試

HT Wong

Technical Officer

Certified By

核證

Lee Project/Engineer Date of Issue 簽發日期

17 June 2016

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

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Sun Creation Engineering Limited - Calibration & Testing Laboratory

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

輝創工程有限公司 - 校正及檢測實驗所 c/o 香港新界屯門興安里一號青山灣機樓四樓

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

Website/網址: www.suncreation.com



### Sun Creation Engineering Limited

**Calibration and Testing Laboratory** 

### Certificate of Calibration 校正證書

Certificate No.: C163248

證書編號

1. The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 hours before the commencement of the test.

2. The results presented are the mean of 3 measurements at each calibration point.

3. Test equipment:

Equipment ID CL130 CL281 TST150A <u>Description</u>
Universal Counter
Multifunction Acoustic Calibrator
Measuring Amplifier

Certificate No. C153519 PA160023 C161175

4. Test procedure: MA100N.

5. Results:

5.1 Sound Level Accuracy

UUT Nominal Value	Measured Value (dB)	Mfr's Spec.	Uncertainty of Measured Value (dB)
94 dB, 1 kHz	93.7	± 0.5	± 0.2

5.2 Frequency Accuracy

UUT Nominal Value	Measured Value	Mfr's	Uncertainty of Measured Value	
(kHz)	(kHz)	Spec.	(Hz)	
1	0.985	1 kHz ± 2 %	± 1	

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

#### Note:

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

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

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Sun Creation Engineering Limited

Calibration and Testing Laboratory

### Certificate of Calibration 校正證書

Certificate No.:

C163758

證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號: IC16-1465)

Date of Receipt / 收件日期: 29 June 2016

Description / 儀器名稱

Sound Level Meter

Manufacturer / 製造商

Rion

Model No. / 型號 Serial No. / 編號

NL-31 00603867

Supplied By / 委託者

Envirotech Services Co.

Room 113, 1/F, My Loft, 9 Hoi Wing Road, Tuen Mun,

New Territories, Hong Kong

TEST CONDITIONS/測試條件

Temperature / 溫度  $(23 \pm 2)^{\circ}$ C Relative Humidity / 相對濕度 :

 $(55 \pm 20)\%$ 

Line Voltage / 電壓 :

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期

11 July 2016

TEST RESULTS / 測試結果

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

The results do not exceed manufacturer's specification.

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

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

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

Tested By

測試

H T Wong

Technical Officer

Certified By

核證

Date of Issue

12 July 2016

簽發日期

Lee Project Engineer

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

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Page 1 of 3



### Sun Creation Engineering Limited

Calibration and Testing Laboratory

### Certificate of Calibration 校正證書

Certificate No.:

C163758

證書編號

The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 hours, and switched on to warm up for over 10 minutes before the commencement of the test.

2. Self-calibration was performed before the test.

3. The results presented are the mean of 3 measurements at each calibration point.

4. Test equipment:

> Equipment ID CL280 CL281

Description 40 MHz Arbitrary Waveform Generator Multifunction Acoustic Calibrator

Certificate No. C160077 PA160023

5. Test procedure: MA101N.

6. Results:

6.1 Sound Pressure Level

6.1.1 Reference Sound Pressure Level

UUT Setting			Applied	l Value	UUT	IEC 61672 Class 1	
Range (dB)	Mode	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)	Reading (dB)	Spec. (dB)
30 - 120	$L_{A}$	A	Fast	94.00	1	93.4	± 1.1

6.1.2 Linearity

UUT Setting			Applied	Value	UUT	
Range (dB)	Mode	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)	Reading (dB)
30 - 120	L <sub>A</sub>	A	Fast	94.00 104.00	1	93.4 (Ref.) 103.4
				114.00		113.4

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

6.2 Time Weighting

UUT Setting			Applied Value		UUT	IEC 61672 Class 1	
Range (dB)	Mode	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)	Reading (dB)	Spec. (dB)
30 - 120	$L_A$	A	Fast	94.00	1	93.4	Ref.
			Slow			93.4	± 0.3

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

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E-mail/電郵: callab@suncreation.com

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Sun Creation Engineering Limited

Calibration and Testing Laboratory

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Certificate No.: C163758

證書編號

#### 6.3 Frequency Weighting

6.3.1 A-Weighting

A- weighting	UUT Setting			Applied Value		UUT	IEC 61672 Class 1
Range (dB)	Mode	Frequency Weighting	Time Weighting	Level (dB)	Freq.	Reading (dB)	Spec.
30 - 120	$L_{A}$	A	Fast	94.00	63 Hz	67.1	$-26.2 \pm 1.5$
					125 Hz	77.1	$-16.1 \pm 1.5$
					250 Hz	84.7	$-8.6 \pm 1.4$
					500 Hz	90.1	$-3.2 \pm 1.4$
					1 kHz	93.4	Ref.
					2 kHz	94.7	$+1.2 \pm 1.6$
					4 kHz	94.5	$+1.0 \pm 1.6$
					8 kHz	92.4	-1.1 (+2.1; -3.1)
					12.5 kHz	89.5	-4.3 (+3.0; <b>-</b> 6.0)

6.3.2 C-Weighting

	UUT Setting			Applied Value		UUT	IEC 61672 Class 1
Range (dB)	Mode	Frequency Weighting	Time Weighting	Level (dB)	Freq.	Reading (dB)	Spec. (dB)
30 - 120	$L_{\rm C}$	C	Fast	94.00	63 Hz	92.5	$-0.8 \pm 1.5$
					125 Hz	93.2	$-0.2 \pm 1.5$
					250 Hz	93.4	$0.0 \pm 1.4$
					500 Hz	93.4	$0.0 \pm 1.4$
					1 kHz	93.4	Ref.
					2 kHz	93.3	$-0.2 \pm 1.6$
					4 kHz	92.7	$-0.8 \pm 1.6$
					8 kHz	90.5	-3.0 (+2.1; -3.1)
					12.5 kHz	87.6	-6.2 (+3.0; -6.0)

Remarks: - UUT Microphone Model No.: UC-53A & S/N: 316987

- Mfr's Spec. : IEC 61672 Class 1

: 63 Hz - 125 Hz :  $\pm$  0.35 dB 250 Hz - 500 Hz :  $\pm$  0.30 dB - Uncertainties of Applied Value: 94 dB

1 kHz  $\pm 0.20 \text{ dB}$ 2 kHz - 4 kHz :  $\pm 0.35 \text{ dB}$ 8 kHz  $\pm 0.45 \text{ dB}$ 12.5 kHz  $\pm 0.70 \text{ dB}$ 

104 dB : 1 kHz  $\pm 0.10 \text{ dB (Ref. 94 dB)}$ 114 dB : 1 kHz  $\pm 0.10 \text{ dB (Ref. 94 dB)}$ 

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

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

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

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E-mail/電郵: callab@suncreation.com

Website/網址: www.suncreation.com



Performance	Check	of Tui	cbidity	Meter
-------------	-------	--------	---------	-------

Equipment Ref. No. : ET/0505/012

Manufacturer : HACH

Model No.

: 2100Q

Serial No.

: 12060 C 018447

Date of Calibration

: 26/09/2016

Due Date

25/12/2016

Ref. No. of Turbidity Standard used (4000NTU)

005/6.1/001/9

Theoretical Value of Turbidity Standard (NTU)	Measured Value (NTU)	Difference % *
20	20.0	0.00
100	97.8	-2.20
800	775	-3.13

(\*) 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:\_\_\_



### Performance Check of Turbidity Meter

Equipment Ref. No. : ET/0505/012

Manufacturer

: HACH

Model No.

: 2100Q

Serial No.

: 12060 C 018447

Date of Calibration

: 24/12/2016

Due Date

: 23/03/2017

Ref. No. of Turbidity Standard used (4000NTU)

005/6.1/001/9

Theoretical Value of Turbidity Standard (NTU)	Measured Value (NTU)	Difference % *
20	20.2	1.0
100	98.5	-1.5
800	780	-2.5

(\*) 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.



Internal Calibration & Perforn	Form E/CE/L/15/Issue 2 (1/1) [04/15
Equipment Ref. No. : ET/EW007/007 Manumondel No. : HI 8314 Serial	facturer : <u>HANNA</u>
Liquid Junction Error         Primary Standard Solution Used : Phosphate Repair Temperature of Solution : 25.0 / 20.0 pH value of diluted buffer : 6.96 / 6.98 $\Delta$ pH = pH(S) - pH of diluted buffer = 0.095 / 0.098 $\Delta$ Liquid Junction Error ( $\Delta$ pH <sub>j</sub> ) = $\Delta$ pH - $\Delta$ pH <sub>½</sub> = 0.015         Shift on Stirring         pH of buffer solution (with stirring), pH <sub>s</sub> = 6.89 $\Delta$ Shift on stirring, $\Delta$ pH <sub>s</sub> = pH <sub>s</sub> - pH(S) - $\Delta$ pH <sub>j</sub> = 0.010         Noise	pH (S) = 6.865 / 6.881
Noise, ΔpH <sub>n</sub> = difference between max and min reading  Verification of ATC	: 0.01 / 0.01
Ref. No. of reference thermometer used: Temperature record from the reference thermometer (T <sub>R</sub> ) Temperature record from the ATC (T <sub>ATC</sub> ): Temperature Difference,  T <sub>R</sub> - T <sub>ATC</sub>   Correction	ET/0521/019  25.0 / 20.0 ° C  24.8 / 19.8 ° C  0.2 / 0.2 ° C  +0.2 / +0.2 ° C
Acceptance Criteria	
Performance Characteristic  Liquid Junction Error ΔpHj  Shift on Stirring ΔpHs	Acceptable Range ≤0.05 ≤0.02
Noise ΔpHn  Verifcation of ATC Temperature Difference	≤0.02 ≤0.5°C
The pH meter complies * / does not comply * with the speacceptable * / unacceptable * for use. Measurements are * Delete as appropriate	·
Calibrated by:	Checked by:



'Form E/CE/L/15/Issue 2 (1/1) [04/15]

Internal Calibration & Performance Check of pH Meter							
Equipment Ref. No. :  Model No. :	ET/EW007/007 HI 8314	Manufactu Serial No.	rer	: <u>HANNA</u> : <u>08500489</u>			
Date of Calibration :	07/12/2016	Calibration	Due Date	: 06/01/2017			
Liquid Junction Error			ng ang ang ang ang ang ang ang ang ang a	003/5 3/003/07 /20% \			
Primary Standard Solution Temperature of Solution pH value of diluted buffer ΔpH = pH(S) - pH of dilut Liquid Junction Error (Δp	25.0 6.97 ed buffer = 0.105	nate Ref No. / 20.0 / 6.98 / 0.099 0.025 /	· ·				
Shift on Stirring							
pH of buffer solution (with Shift on stirring, $\Delta pH_s = p$		6.90 / 0.010 /	6.90 0.000				
Noise	kongoningganning at dasseksimining at solidak og delapho (Hebbert og delaphoning at solidak og d	100 mars 100	AND COMMENTAL OF THE PROPERTY				
Noise, $\Delta pH_n = difference$	between max and m	nin reading :	0.01 / 0.	01			
Verification of ATC	goggagagagagagagagagagagagagagagagagaga	geografie were geografie in de state de la communication de la com	ess egy a Agressa essa su				
Temperature record from Temperature record from	Ref. No. of reference thermometer used:						
Acceptance Criteria		ана на применения на приме					
Performa	nce Characteristic ΔpHj		Acceptable Ra ≤0.05	nge			
Shift on Stirring	ΔpHs		≤0.02				
Noise	ΔpHn		≤0.02	and the production of the state			
Verifcation of ATC	Temperature Differ	rence	≤0.5°C	www.coccoccocc			
The pH meter complies * acceptable * / <del>unaccepta</del> * Delete as appropriate							
Calibrated by:	À	C	hecked by :	12/1			



Form E/CE/R/12 Issue 8 (1/2) [05/13]

### **Internal Calibration Report of Dissolved Oxygen Meter**

Equipment Ref. No. :

ET/EW/008/005

Manufacturer

: YSI

Model No.

Pro 2030

Serial No.

12A 100353

Date of Calibration

22/10/2016

Calibration Due Date

21/01/2017

#### Temperature Verification

Ref. No. of Reference Thermometer:

ET/0521/017

Ref. No. of Water Bath:

Temperature (°C)

		Temperature (°C)				
Reference Thermometer reading	Measured	20.0	Corrected	20.1		
DO Meter reading	Measured	19.9	Difference	0.2		

### Standardization of sodium thiosulphate (Na $_2$ S $_2$ O $_3$ ) solution

Reagent No. of Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> titrant	CPE/012/4.5/001/14	Reagent No. of 0.025N K <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub>	CPE/012/4.4/002/14
		Trial 1	Trial 2
Initial Vol. of Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (ml)		0.00	10.35
Final Vol. of Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (ml)		10.35	20.75
Vol. of Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> used (ml)		10.35	10.40
Normality of Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> solution (N)		0.02415	0.02404
Average Normality (N) of Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> s	solution (N) 0.02410		
Acceptance criteria, Deviation		Less than $\pm 0$ .	.001N

Calculation:

Normality of  $Na_2S_2O_3$ , N = 0.25 / ml  $Na_2S_2O_3$  used

### Lineality Checking

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

Purging Time (min)	2		5		10	
Trial	1	2	1	2	1	2
Initial Vol. of Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (ml)	0.00	11.70	23.40	0.00	6.50	10.50
Final Vol. of Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (ml)	11.70	23.40	30.00	6.50	10.50	14.60
Vol. (V) of Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> used (ml)	11.70	11.70	6.60	6.50	4.00	4.10
Dissolved Oxygen (DO), mg/L	7.57	7.57	4.27	4.21	2.59	2.65
Acceptance criteria, Deviation	Less than	n + 0.3mg/L	Less than + 0.3mg/L Less		Less than	+ 0.3mg/L

Calculation:

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

Purging time, min	DO meter reading, mg/L			Winkler Titration result *, mg/L			Difference (%) of DO
r diging time, min	1	2	Average	1	2	Average	Content
2	7.44	7.51	7.48	7.57	7.57	7.57	1.20
5	4.19	4.19	4.19	4.27	4.21	4.24	1.19
10	2.52	2.54	2.53	2.59	2.65	2.62	3.50
Linea	r regression	coefficient		7		0.9999	



Form E/CE/R/12 Issue 8 (2/2) [05/13]

### **Internal Calibration Report of Dissolved Oxygen Meter**

DO meter reading, mg/L	0.00

#### Salinity Checking

	1	T TO THE TOTAL TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL THE TOTAL TO THE TOTAL TOTAL TO THE TOTAL TOTAL TO THE TOTAL TOTAL TO THE TOTAL TH	<u> </u>
Reagent No. of NaCl (10ppt)	CPE/012/4.7/003/29	Reagent No. of NaCl (30ppt)	CPE/012/4.8/003/29

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

Salinity (ppt)	10	0		30
Trial	1	2	1	2
Initial Vol. of Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (ml)	0.00	10.90	21.90	31.30
Final Vol. of Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (ml)	10.90	21.90	31.30	40.80
Vol. (V) of Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> used (ml)	10.90	11.00	9.40	9.50
Dissolved Oxygen (DO), mg/L	7.05	7.12	6.08	6.15
Acceptance criteria, Deviation	Less than + 0.3mg/L		Less than	ı + 0.3mg/L

Calculation:

DO (mg/L) =  $\mathbf{V} \times \mathbf{N} \times 8000/298$ 

Salinity (ppt)	DO 1	neter reading	g, mg/L	Winkler	Titration resu	ılt**, mg/L	Difference (%) of DO
Summy (ppv)	1	22	Average	1	2	Average	Content
10	7.11	7.15	7.13	7.05	7.12	7.09	0.56
30	6.08	6.04	6.06	6.08	6.15	6.12	0.99

#### Acceptance Criteria

- (1) Differenc between temperature readings from temperature sensor of DO probe and reference thermometer :  $< 0.5 \, ^{\circ}\mathrm{C}$
- (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  $\pm\,5\%$

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

" Delete as appropriate

Calibrated by	:	Approved by:	1
---------------	---	--------------	---

Performance Check of Salinity Meter					
	W/008/005	Manufacturer : YSI			
Model No. : Pro 20		Serial No. : <u>12A 100353</u>			
Date of Calibration : 22/10	/2016	Due Date : <u>21/01/2017</u>			
Ref. No. of Salinity Star	ndard used (30ppt)	S/001/5			
Salinity Standard (ppt)	Measured Salinit	Difference * (%)			
30.0	30.6	2.00			
(*) Difference (%) = (Measured	Salinity – Salinity Sta	andard value) / Salinity Standard value x 100			
Acceptance Criteria	Difference : -10 %	o to 10 %			
		ly * with the specified requirements or use. Measurements are traceable to			
Checked by:	App	proved by :			



Sun Creation Engineering Limited

Calibration and Testing Laboratory

### Certificate of Calibration 校正證書

Certificate No.:

C165934

證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號: IC16-2438)

Date of Receipt / 收件日期: 26 October 2016

Description / 儀器名稱

Anemometer

Manufacturer / 製造商

Lutron

Model No. / 型號 Serial No. / 編號

AM-4201 AF.27513

Supplied By / 委託者

Envirotech Services Co.

Room 113, 1/F, My Loft, 9 Hoi Wing Road, Tuen Mun,

New Territories, Hong Kong

TEST CONDITIONS / 測試條件

Temperature / 溫度 :

 $(23 \pm 2)^{\circ}$ C

Relative Humidity / 相對濕度 :

 $(55 \pm 20)\%$ 

Line Voltage / 電壓 :

TEST SPECIFICATIONS / 測試規節

Calibration check

27 October 2016

TEST RESULTS / 測試結果

DATE OF TEST / 測試日期

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

T L Shek Assistant Engineer

Certified By

核證

H C Chan

Engineer

Date of Issue 簽發日期

28 October 2016

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。

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

Website/網址: www.suncreation.com



#### Sun Creation Engineering Limited

Calibration and Testing Laboratory

## Certificate of Calibration

Certificate No.:

C165934

證書編號

校正證書

1. The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 hours before the commencement of the test.

2. The results presented are the mean of 10 measurements at each calibration point.

3. Test equipment:

CL386

Equipment ID

Description

Multi-function Measuring Instrument

Certificate No. S12109

4. Test procedure: MA130N.

5. Results:

Air Velocity

Applied	UUT		Measured Correction	
Applied Value	Reading	Value	Measurement Unc	ertainty
(m/s)	(m/s)	(m/s)	Expanded Uncertainty (m/s)	Coverage Factor
2.0	1.8	+0.2	0.2	2.0
4.0	3.8	+0.2	0.2	2.0
6.0	5.8	+0.2	0.3	2.0
8.1	8.0	+0.1	0.3	2.0
10.0	10.0	0.0	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:

Only the original copy or the laboratory's certified true copy is valid.

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所書面批准。

### ENVIROTECH SERVICES CO.

### **Calibration Report of Wind Meter**

Date of Calibration:

1 November 2016

Brand of Test Meter:

Global Water

Model:

Speed Sensor: WE550 (S/N:E1337005099)

Direction Senor: WE570 (S/N:153500564)

Location:

Pak Mong, Siu Ho Wan

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)
l	0.00

### Wind Speed Test

Global Wate (m/s)	Anemomete (m/s)
1.18	1.3
0.99	1.1
0.67	0.7

### Wind Direction Test

Global Wate (o)	Marine Compass (o)
270.46	270
0.07	0
90.25	90
181.13	180

Calibrated by:

Yeung Ping Fai

(Technical Officer)

Checked by:

Ho Kam Fat

(Senior Technical Officer)

### Appendix F

# EM&A Monitoring Schedules

## HY/2012/07 Tuen Mun - Chek Lap Kok Link - Southern Connection Viaduct Section Impact Noise Monitoring Schedule (1 to 31 December 2016)

Alternative Noise Monitoring at Pak Mong Village Entrance

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				1-Dec	2-Dec	3-Dec
				Noise Impact		
				Monitoring		
				-		
4-Dec	5-Dec	6-Dec	7-Dec	8-Dec	9-Dec	10-Dec
4-Dec	5-Dec				9-Dec	10-De
			Noise Impact Monitoring			
11-Dec	12-Dec	13-Dec	14-Dec	15-Dec	16-Dec	17-De
11-060	12-060	Noise Impact	14-060	13-060	10-Dec	17-06
		Monitoring				
		Worldoning				
18-Dec	19-Dec	20-Dec	21-Dec	22-Dec	23-Dec	24-De
	Noise Impact			Noise Impact		
	Monitoring			Monitoring		
	ŭ			G		
25-Dec	26-Dec	27-Dec	28-Dec	29-Dec	30-Dec	31-De
			Noise Impact Monitoring			
			, , ,			

## HY/2012/07 Tuen Mun - Chek Lap Kok Link - Southern Connection Viaduct Section Impact Air Quality Monitoring Schedule (1 to 31 December 2016)

Alternative Air Quality Monitoring at WA4 and MTRC Depot Entrance

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				1-Dec	2-Dec	3-Dec
				1-hr TSP Monitoring		
				24-hr TSP Monitoring		
				_		
4.5		0.5	7.0	0.5	0.5	10.5
4-Dec	5-Dec	6-Dec		8-Dec	9-Dec	10-Dec
			1-hr TSP Monitoring			
			24-hr TSP Monitoring			
11-Dec	12-Dec	13-Dec	14-Dec	15-Dec	16-Dec	17-Dec
11 200	12 000	1-hr TSP Monitoring	11 200	10 200	10 000	11 200
		24-hr TSP Monitoring				
		24 III TOI WOIMOING				
18-Dec		20-Dec	21-Dec		23-Dec	24-Dec
	1-hr TSP Monitoring			1-hr TSP Monitoring		
	24-hr TSP Monitoring			24-hr TSP Monitoring		
0.F.D	00.5	07.0	00.5	00 D	00.0	04.5
25-Dec	26-Dec	27-Dec		29-Dec	30-Dec	31-Dec
			1-hr TSP Monitoring			
			24-hr TSP Monitoring			

## HY/2012/07 Tuen Mun - Chek Lap Kok Link - Southern Connection Viaduct Section Impact Noise Monitoring Schedule (1 to 31 January 2017)

Alternative Noise Monitoring at Pak Mong Village Entrance

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1-Jan	2-Jan		4-Jan	5-Jan	6-Jan	7-Jan
		Noise Impact				
		Monitoring				
8-Jan		10-Jan	11-Jan		13-Jan	14-Jan
	Noise Impact			Noise Impact		
	Monitoring			Monitoring		
15-Jan	16-Jan				20-Jan	21-Jan
			Noise Impact Monitoring			
22-Jan	23-Jan		25-Jan			28-Jan
		Noise Impact			Noise Impact	
		Monitoring			Monitoring	
29-Jan	30-Jan	31-Jan				

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/2012/07 Tuen Mun - Chek Lap Kok Link - Southern Connection Viaduct Section Impact Air Quality Monitoring Schedule (1 to 31 January 2017)

Alternative Air Quality Monitoring at WA4 and MTRC Depot Entrance

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1-Jan						7-Jar
		1-hr TSP Monitoring				
		24-hr TSP Monitoring				
8-Jan	9-Jan	10-Jan	11-Jan	12-Jan	13-Jan	14-Jan
	1-hr TSP Monitoring			1-hr TSP Monitoring		
	24-hr TSP Monitoring			24-hr TSP Monitoring		
15-Jan	16-Jan	17-Jan	18-Jan	19-Jan	20-Jan	21-Jan
			1-hr TSP Monitoring			
			24-hr TSP Monitoring			
22-Jan	23-Jan		25-Jan	26-Jan		28-Jan
		1-hr TSP Monitoring			1-hr TSP Monitoring	
		24-hr TSP Monitoring			24-hr TSP Monitoring	
29-Jan	30-Jan	31-Jan				
20 0011	00 0011	O i dan				

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/2012/07 - Tuen Mun - Chek Lap Kok Link - Southern Connection Viaduct Section Impact Marine Water Quality Monitoring (WQM) Schedule (December 2016)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturda	
27-Nov	28-Nov	29-Nov	30-Nov		02-Dec		03-Dec
				WQM		WQM	
				Mid-Flood		Mid-Flood	
				8:46		10:02	
				(07:01 - 10:31)		(08:17 - 11:47)	
				Mid-Ebb		Mid-Ebb	
				14:11		15:25	
	05.0		07.5	(12:26 - 15:56)		(13:40 - 17:10)	40 D
04-Dec		06-Dec	07-Dec	08-Dec	09-Dec	WOM	10-Dec
		WQM		WQM		WQM	
		Mid-Flood		Mid-Flood		Mid-Ebb	
		12:41		14:30		9:18	
		(10:56 - 14:26)		(12:45 - 16:15)		(07:33 - 11:03)	
		Mid-Ebb		Mid-Ebb		Mid-Flood	
		18:12		20:53		15:50	
		(16:35 - 19:50)		(19:08 - 22:38)		(14:05 - 17:35)	
11-Dec		13-Dec	14-Dec		16-Dec		17-Dec
		WQM		WQM		WQM	
		Mid-Ebb		Mid-Flood		Mid-Flood	
		12:18		8:35		10:13	
		(10:33 - 14:03)		(06:50 - 10:20)		(08:28 - 11:58)	
		Mid-Flood		Mid-Ebb		Mid-Ebb	
		17:49		14:00		15:32	
10.0		(16:04 - 19:34)	04 D	(12:15 - 15:45)	00 D	(13:47 - 17:17)	04 D
18-Dec		20-Dec	21-Dec		23-Dec		24-Dec
		WQM Mid-Flood		<b>WQM</b> Mid-Ebb		WQM	
		12:45		6:58		Mid-Ebb 9:44	
						(07:59 - 11:29)	
		(11:00 - 14:30)		(05:13 - 08:43)			
		Mid-Ebb 18:24		Mid-Flood 14:28		Mid-Flood 15:47	
25-Dec		(16:39 - 20:09) 27-Dec	28-Dec	(12:43 - 16:13) 29-Dec	30-Dec	(14:02 - 17:32)	31-Dec
25-Dec		WQM		WQM	30-Dec	WQM	31-Dec
		Mid-Ebb		Mid-Flood		Mid-Flood	
		12:06		8:02		9:09	
		(10:21 - 13:51)		(06:17 - 09:47)		(07:24 - 10:54)	
		(10.21 - 13.51) Mid-Flood		(06.17 - 09.47) Mid-Ebb		(07.24 - 10.54) Mid-Ebb	
		17:20		13:18		14:29	
		(15:35 - 19:05)		(11:33 - 15:03)		(12:44 - 16:14)	
		(10.00 - 19.00)		(11.33 - 13.03)		(12.44 - 10.14)	

### HY/2012/07 - Tuen Mun - Chek Lap Kok Link - Southern Connection Viaduct Section Impact Marine Water Quality Monitoring (WQM) Schedule (January 2017)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	
01-Jan	02-Jan	03-Jan	04-Jan				'-Jan
		WQM		WQM		WQM	
		Mid-Flood		Mid-Flood		Mid-Ebb	
		11:02		12:35		7:23	
		(09:17 - 12:47)		(10:50 - 14:20)		(05:38 - 09:08)	
		Mid-Ebb		Mid-Ebb		Mid-Flood	
		16:39		18:49		14:16	
		(14:54 - 18:24)		(17:04 - 20:34)		(12:31 - 16:01)	
08-Jan	09-Jan	10-Jan	11-Jan		13-Jan	14	I-Jan
		WQM		WQM		WQM	
		Mid-Ebb		Mid-Ebb		Mid-Flood	
		11:18		13:02		9:07	
		(09:33 - 13:03)		(11:17 - 14:47)		(07:22 - 10:52)	
		Mid-Flood		Mid-Flood		Mid-Ebb	
		16:43		18:16		14:29	
		(14:58 - 18:28)		(16:31 - 20:01)		(12:44 - 16:14)	
15-Jan	16-Jan	17-Jan	18-Jan		20-Jan	21	-Jan
		WQM		WQM		WQM	
		Mid-Flood		Mid-Flood		Mid-Ebb	
		11:02		12:16		6:47	
		(09:17 - 12:47)		(10:31 - 14:01)		(05:02 - 08:32)	
		Mid-Ebb		Mid-Ebb		Mid-Flood	
		16:34		18:23		13:47	
22-Jan		(14:49 - 18:19) 24-Jan	25-Jan	(16:38 - 20:08) 26-Jan	27-Jan	(12:02 - 15:32)	1   1   1
22-Jan	23-Jan	WQM	25-Jan	WQM		WQM	3-Jan
		Mid-Ebb		Mid-Ebb		Mid-Flood	
		11:04		12:24		8:13	
		(09:19 - 12:49)		(10:39 - 14:09)		(06:28 - 09:58)	
		(09.19 - 12.49) Mid-Flood		Mid-Flood		(06.26 - 09.56) Mid-Ebb	
		16:07		17:30		13:35	
		(14:22 - 17:52)		(15:45 - 19:15)		(11:50 - 15:20)	
29-Jan	30-Jan	(14.22 - 17.32) 31-Jan	01-Feb		03-Feb	(11.50 - 15.20)	-Feb
25-0411		WQM	01-1 65	WQM		WQM	1 60
		Mid-Flood		Mid-Flood		Mid-Flood	
		9:41		10:50		12:22	
		(07:56 - 11:26)		(09:05 - 12:35)		(10:37 - 14:07)	
		Mid-Ebb		Mid-Ebb		Mid-Ebb	
		15:25		16:56		19:11	
		(13:40 - 17:10)		(15:11 - 18:41)		(17:26 - 20:56)	
		(10. <del>1</del> 0 - 17.10)		(10.11 - 10. <del>4</del> 1)		(17.20 - 20.00)	

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/2012/07 Tuen Mun - Chek Lap Kok Link - Southern Connection Viaduct Section Impact Dolphin Monitoring Survey Schedule (1 to 31 December 2016)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				1-Dec	2-Dec	3-Dec
				Impact Dolphin		
				Monitoring		
4-Dec	5-Dec	6-Dec	7-Dec	8-Dec	9-Dec	10-Dec
		Impact Dolphin				
		Monitoring				
11-Dec	12-Dec	13-Dec	14-Dec	15-Dec	16-Dec	17-Dec
11 DCC	12 DCC	10 000	14 000	10 DCC	Impact Dolphin	17 000
					Monitoring	
					i viorintorinig	
40 D.s.	40 D	00 D	04 Dan	00 D	00 Day	04 D
18-Dec		20-Dec	21-Dec	22-Dec	23-Dec	24-Dec
	Impact Dolphin					
	Monitoring					
25-Dec	26-Dec	27-Dec	28-Dec	29-Dec	30-Dec	31-Dec

## HY/2012/07 Tuen Mun - Chek Lap Kok Link - Southern Connection Viaduct Section Impact Dolphin Monitoring Survey Schedule (1 to 31 January 2017)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1-Jan	2-Jan				6-Jan	7-Jan
8-Jan	9-Jan	10-Jan	11-Jan	12-Jan	13-Jan	14-Jan
		Impact Dolphin		Impact Dolphin		
		Monitoring		Monitoring		
15-Jan	16-Jan	17-Jan	18-Jan	19-Jan	20-Jan	21-Jan
10-0411	10-3411	17-Jail	10-3411	Impact Dolphin	20-Jaii	21-Jaii
				Monitoring		
				3		
22-Jan		24-Jan	25-Jan	26-Jan	27-Jan	28-Jan
	Impact Dolphin					
	Monitoring					
29-Jan	30-Jan	31-Jan				

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 and
Graphical Presentation

1-hour TSP Monitoring Results at Air Quality Monitoring Station ASR8A

Project	Works	Date(yyyy-mm-dd)	Station	Time (hh:mm, 24hour)	Parameter	Results (ug/m3)	Action Level (ug/m3)	Limit Level (ug/m3)
TMCLKL	HY/2012/07	2016-12-01	ASR8A	8:34	1-hr TSP	93		
TMCLKL	HY/2012/07	2016-12-01	ASR8A	9:36	1-hr TSP	104		
TMCLKL	HY/2012/07	2016-12-01	ASR8A	10:38	1-hr TSP	87		
TMCLKL	HY/2012/07	2016-12-07	ASR8A	13:20	1-hr TSP	115		
TMCLKL	HY/2012/07	2016-12-07	ASR8A	14:22	1-hr TSP	82		
TMCLKL	HY/2012/07	2016-12-07	ASR8A	15:24	1-hr TSP	115		
TMCLKL	HY/2012/07	2016-12-13	ASR8A	8:12	1-hr TSP	88		
TMCLKL	HY/2012/07	2016-12-13	ASR8A	9:14	1-hr TSP	79		
TMCLKL	HY/2012/07	2016-12-13	ASR8A	10:16	1-hr TSP	84	394	500
TMCLKL	HY/2012/07	2016-12-19	ASR8A	8:33	1-hr TSP	73	334	300
TMCLKL	HY/2012/07	2016-12-19	ASR8A	9:35	1-hr TSP	60		
TMCLKL	HY/2012/07	2016-12-19	ASR8A	10:37	1-hr TSP	47		
TMCLKL	HY/2012/07	2016-12-22	ASR8A	8:00	1hr TSP	125		
TMCLKL	HY/2012/07	2016-12-22	ASR8A	9:02	1-hr TSP	66		
TMCLKL	HY/2012/07	2016-12-22	ASR8A	10:04	1-hr TSP	65		
TMCLKL	HY/2012/07	2016-12-28	ASR8A	9:20	1-hr TSP	99		
TMCLKL	HY/2012/07	2016-12-28	ASR8A	10:22	1-hr TSP	88		
TMCLKL	HY/2012/07	2016-12-28	ASR8A	11:24	1-hr TSP	95		
					Average	87		
					Min.	47		

Max.

125

62

180

1-hour TSP Monitoring Results at Air Quality Monitoring Station ASR9

1-110ul 13	1-hour 15P Monitoring Results at Air Quality Monitoring Station ASR9							
Project	Works	Date(yyyy-mm-dd)	Station	Time (hh:mm, 24hour)	Parameter	Results (ug/m3)	Action Level (ug/m3)	Limit Level (ug/m3)
TMCLKL	HY/2012/07	2016-12-01	ASR9	8:44	1-hr TSP	135		
TMCLKL	HY/2012/07	2016-12-01	ASR9	9:46	1-hr TSP	148	1	
TMCLKL	HY/2012/07	2016-12-01	ASR9	10:48	1-hr TSP	106		
TMCLKL	HY/2012/07	2016-12-07	ASR9	13:30	1-hr TSP	159		
TMCLKL	HY/2012/07	2016-12-07	ASR9	14:32	1-hr TSP	175		
TMCLKL	HY/2012/07	2016-12-07	ASR9	15:34	1-hr TSP	180		
TMCLKL	HY/2012/07	2016-12-13	ASR9	8:23	1-hr TSP	131		500
TMCLKL	HY/2012/07	2016-12-13	ASR9	9:25	1-hr TSP	77		
TMCLKL	HY/2012/07	2016-12-13	ASR9	10:27	1-hr TSP	128	393	
TMCLKL	HY/2012/07	2016-12-19	ASR9	8:43	1-hr TSP	147	393	
TMCLKL	HY/2012/07	2016-12-19	ASR9	9:45	1-hr TSP	84		
TMCLKL	HY/2012/07	2016-12-19	ASR9	10:47	1-hr TSP	147		
TMCLKL	HY/2012/07	2016-12-22	ASR9	8:10	1-hr TSP	62		
TMCLKL	HY/2012/07	2016-12-22	ASR9	9:12	1-hr TSP	114		
TMCLKL	HY/2012/07	2016-12-22	ASR9	10:14	1-hr TSP	98		
TMCLKL	HY/2012/07	2016-12-28	ASR9	9:30	1-hr TSP	119		
TMCLKL	HY/2012/07	2016-12-28	ASR9	10:32	1-hr TSP	126		
TMCLKL	HY/2012/07	2016-12-28	ASR9	11:34	1-hr TSP	118		
			_		Average	125		

Min. Max. 24-hour TSP Monitoring Results at Air Quality Monitoring Station ASR8A

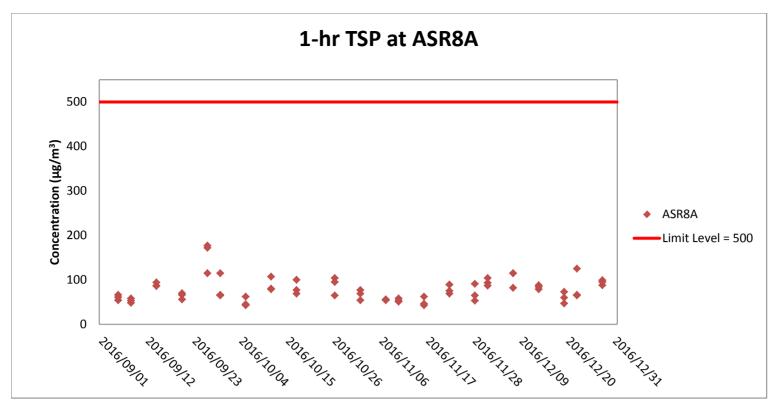
Project	Works	Date(yyyy-mm-dd)	Station	Time (hh:mm, 24hour)	Parameter	Results (ug/m3)	Action Level (ug/m3)	Limit Level (ug/m3)
TMCLKL	HY/2012/07	2016-12-01	ASR8A	11:40	24-hr TSP	69		260
TMCLKL	HY/2012/07	2016-12-07	ASR8A	16:26	24-hr TSP	76		
TMCLKL	HY/2012/07	2016-12-13	ASR8A	11:18	24-hr TSP	68	178	
TMCLKL	HY/2012/07	2016-12-19	ASR8A	11:39	24-hr TSP	46	170	
TMCLKL	HY/2012/07	2016-12-22	ASR8A	11:06	24-hr TSP	54		
TMCLKL	HY/2012/07	2016-12-28	ASR8A	12:26	24-hr TSP	78		
					Average	65		_
					Min.	46		
					Max.	78		

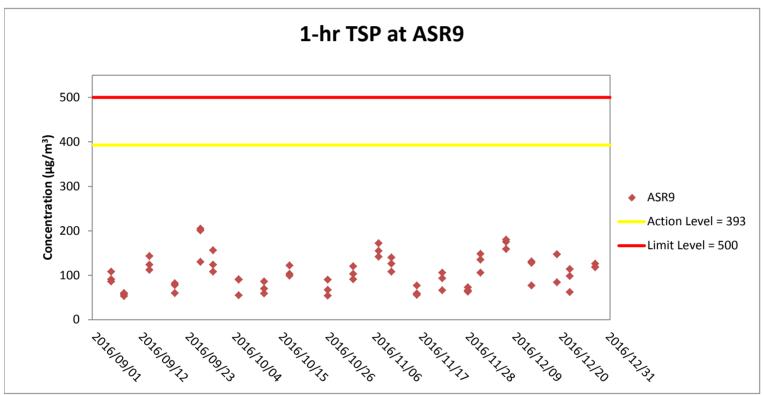
24-hour TSP Monitoring Results at Air Quality Monitoring Station ASR9

<u> </u>	101 1110111101111	g recounts at 7th Quality i	vioi iitoi ii ig	Oldilon / tor to				
Project	Works	Date(yyyy-mm-dd)	Station	Time (hh:mm, 24hour)	Parameter	Results (ug/m3)	Action Level (ug/m3)	Limit Level (ug/m3)
TMCLKL	HY/2012/07	2016-12-01	ASR9	11:50	24-hr TSP	82		
TMCLKL	HY/2012/07	2016-12-07	ASR9	16:36	24-hr TSP	94		
TMCLKL	HY/2012/07	2016-12-13	ASR9	11:29	24-hr TSP	79	178	260
TMCLKL	HY/2012/07	2016-12-19	ASR9	11:49	24-hr TSP	75	170	200
TMCLKL	HY/2012/07	2016-12-22	ASR9	11:16	24-hr TSP	71		
TMCLKL	HY/2012/07	2016-12-28	ASR9	12:36	24-hr TSP	80		
					Average	80		
					Min	71		

Max.

94

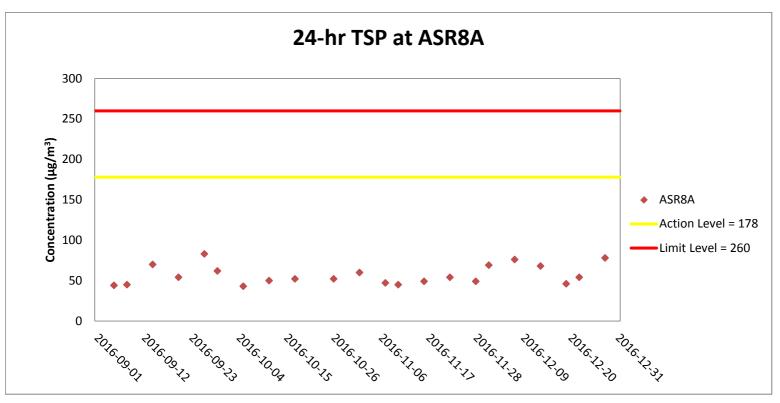


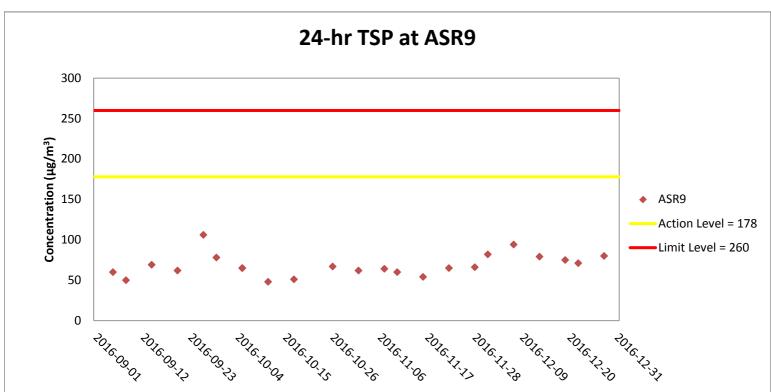


Weather condition within the reporting period varied between sunny to rainy.

Major construction works undertaken within the reporting period include Pier construction; Re-alignment of Cheung Tung Road; Road works along North Lantau Highway;; Installation of pier head and deck segments; and Slope work of Viaducts A, B & C.

Marine works within the reporting period include Construction and installation of pile caps; Uninstallation of marine piling platform; Pier construction; Launching gantry operation; and Installation of deck segment and pier head segment.





Weather condition within the reporting period varied between sunny to rainy.

Major construction works undertaken within the reporting period include Pier construction; Re-alignment of Cheung Tung Road; Road works along North Lantau Highway;; Installation of pier head and deck segments; and Slope work of Viaducts A, B & C.

Marine works within the reporting period include Construction and installation of pile caps; Uninstallation of marine piling platform; Pier construction; Launching gantry operation; and Installation of deck segment and pier head segment.

#### Appendix H

# Meteorological Data for the Reporting Month

Date   Time (Hrt)		(1111)	TT 1 1 ( /)	TTT' 1 1' (1 )
2016-12-01   1	Date	Time (HH)	Wind speed (m/s)	Wind direction (deg)
2016-12-01   2				-
2016-12-01   3				-
2015-12-01	2016-12-01		0.0	-
2016-12-01   5   0.0	2016-12-01		0.0	-
2016-12-01   6   0.0	2016-12-01	4	0.2	128
2016-12-01	2016-12-01	5	0.0	-
2016-12-01		6	0.0	-
2016-12-01   8				187
2016-12-01   9				
2016-12-01   10   0.0   -				
2016-12-01				214
2016-12-01   12   0.1   223   2016-12-01   13   0.1   168   2016-12-01   14   0.0   -     -     2016-12-01   15   0.1   103   2016-12-01   15   0.1   103   2016-12-01   16   0.1   265   2016-12-01   18   0.1   202   2016-12-01   18   0.1   202   2016-12-01   19   0.2   194   2016-12-01   20   0.1   194   202   2016-12-01   20   0.1   194   202   2016-12-01   20   0.1   194   2016-12-01   21   0.1   182   2016-12-01   22   0.2   178   2016-12-01   23   0.0   -     2016-12-02   20   0.0   -     2016-12-02   20   0.0   -     2016-12-02   20   0.0   -     2016-12-02   20   0.0   -     2016-12-02   20   0.0   -     2016-12-02   20   0.0   -     2016-12-02   20   0.0   -     2016-12-02   20   0.0   -     2016-12-02   20   0.0   -     2016-12-02   20   0.0   -     2016-12-02   20   0.0   -     2016-12-02   20   0.0   -       2016-12-02   20   0.0   -       2016-12-02   20   0.0   -       2016-12-02   20   0.0   -       2016-12-02   20   0.0   -       2016-12-02   20   0.0   -       2016-12-02   20   0.0   -       2016-12-02   20   0.0   -       2016-12-02   20   0.0   -				-
2016-12-01   13   0.1   168				
2016-12-01				
2016-12-01   15   0.1   103   2016-12-01   16   0.1   265   2016-12-01   17   0.0     2016-12-01   18   0.1   202   2016-12-01   19   0.2   194   2016-12-01   21   0.1   194   2016-12-01   21   0.1   182   2016-12-01   22   0.2   178   2016-12-01   23   0.0   -   2016-12-02   23   0.0   -   2016-12-02   2   0.0   0.1   108   2016-12-02   2   0.0   0.0   -   2016-12-02   2   0.0   0.0   -   2016-12-02   2   0.0   0.0   -   2016-12-02   2   0.0   0.0   -   2016-12-02   2   0.0   0.0   -   2016-12-02   2   0.0   0.0   -   2016-12-02   2   0.0   0.0   -   2016-12-02   2   0.0   0.0   -   2016-12-02   2   0.0   0.0   -   2016-12-02   3   0.0   0.0   -   2016-12-02   5   0.2   167   2016-12-02   5   0.2   167   2016-12-02   5   0.2   167   2016-12-02   5   0.2   167   2016-12-02   8   0.0   -   2016-12-02   8   0.0   -   2016-12-02   8   0.0   -   2016-12-02   10   0.0   -   2016-12-02   10   0.0   -   2016-12-02   10   0.0   -   2016-12-02   10   0.0   -   2016-12-02   12   0.0   0.0   -   2016-12-02   13   0.0   -   2016-12-02   14   0.0   -   2016-12-02   15   0.0   -   2016-12-02   16   0.0   -     2016-12-02   17   0.4   191   2016-12-02   18   0.3   166   0.0   -     2016-12-02   18   0.3   166   0.0   -     2016-12-02   18   0.3   166   0.0   -     2016-12-02   20   0.0   -     2016-12-02   20   0.0   -     2016-12-02   20   0.0   -     2016-12-02   20   0.0   -     2016-12-02   20   0.0   -     2016-12-02   20   0.0   -     2016-12-02   20   0.0   -     2016-12-02   20   0.0   -     2016-12-02   20   0.0   -     2016-12-02   20   0.0   -     2016-12-02   20   0.0   -     2016-12-02   20   0.0   -     2016-12-02   20   0.0   -     2016-12-02   20   0.0   -     2016-12-02   20   0.0   -       2016-12-02   20   0.0   -         2016-12-02   20   0.0   -				168
2016-12-01   16	2016-12-01	14	0.0	-
2016-12-01   17	2016-12-01	15	0.1	103
2016-12-01   18	2016-12-01	16	0.1	265
2016-12-01   18	2016-12-01	17	0.0	-
2016-12-01   19   0.2   194				202
2016-12-01   20				
2016-12-01   21   0.1   182   2016-12-01   22   0.2   178   2016-12-01   23   0.0   -   2016-12-02   0   0.0   -   2016-12-02   1   0.1   108   2016-12-02   1   0.1   108   2016-12-02   2   0.0   -     2016-12-02   3   0.0   -     2016-12-02   3   0.0   -     2016-12-02   4   0.0   -				
2016-12-01   22   0.2   178				
2016-12-01   23				
2016-12-02				
2016-12-02				-
2016-12-02   2   0.0   -				
2016-12-02   3			0.1	108
2016-12-02   3	2016-12-02		0.0	<u>-</u>
2016-12-02	2016-12-02		0.0	-
2016-12-02   5			<del></del>	-
2016-12-02				167
2016-12-02		i		
2016-12-02   8   0.0   -				
2016-12-02   9				
2016-12-02   10				
2016-12-02				-
2016-12-02   12   0.0   -				-
2016-12-02				-
2016-12-02         14         0.0         -           2016-12-02         15         0.0         -           2016-12-02         16         0.0         -           2016-12-02         17         0.4         191           2016-12-02         18         0.3         166           2016-12-02         19         0.1         120           2016-12-02         20         0.0         -           2016-12-02         21         0.0         -           2016-12-02         22         0.1         168           2016-12-02         23         0.0         -           2016-12-07         0         0.0         -           2016-12-07         1         0.0         -           2016-12-07         2         0.0         -           2016-12-07         3         0.0         -           2016-12-07         4         0.0         -           2016-12-07         4         0.0         -           2016-12-07         5         0.1         87           2016-12-07         6         0.0         -           2016-12-07         7         0.2         62	2016-12-02	12	0.0	-
2016-12-02         15         0.0         -           2016-12-02         16         0.0         -           2016-12-02         17         0.4         191           2016-12-02         18         0.3         166           2016-12-02         19         0.1         120           2016-12-02         20         0.0         -           2016-12-02         21         0.0         -           2016-12-02         23         0.0         -           2016-12-07         0         0.0         -           2016-12-07         1         0.0         -           2016-12-07         1         0.0         -           2016-12-07         2         0.0         -           2016-12-07         3         0.0         -           2016-12-07         3         0.0         -           2016-12-07         4         0.0         -           2016-12-07         5         0.1         87           2016-12-07         6         0.0         -           2016-12-07         7         0.2         62           2016-12-07         8         0.1         117	2016-12-02	13	0.0	-
2016-12-02         16         0.0         -           2016-12-02         17         0.4         191           2016-12-02         18         0.3         166           2016-12-02         19         0.1         120           2016-12-02         20         0.0         -           2016-12-02         21         0.0         -           2016-12-02         23         0.0         -           2016-12-07         0         0.0         -           2016-12-07         1         0.0         -           2016-12-07         2         0.0         -           2016-12-07         3         0.0         -           2016-12-07         3         0.0         -           2016-12-07         3         0.0         -           2016-12-07         4         0.0         -           2016-12-07         5         0.1         87           2016-12-07         6         0.0         -           2016-12-07         7         0.2         62           2016-12-07         8         0.1         117           2016-12-07         10         0.0         -	2016-12-02	14	0.0	-
2016-12-02         16         0.0         -           2016-12-02         17         0.4         191           2016-12-02         18         0.3         166           2016-12-02         19         0.1         120           2016-12-02         20         0.0         -           2016-12-02         21         0.0         -           2016-12-02         23         0.0         -           2016-12-07         0         0.0         -           2016-12-07         1         0.0         -           2016-12-07         2         0.0         -           2016-12-07         3         0.0         -           2016-12-07         3         0.0         -           2016-12-07         3         0.0         -           2016-12-07         4         0.0         -           2016-12-07         5         0.1         87           2016-12-07         6         0.0         -           2016-12-07         7         0.2         62           2016-12-07         8         0.1         117           2016-12-07         10         0.0         -	2016-12-02	15	0.0	-
2016-12-02         17         0.4         191           2016-12-02         18         0.3         166           2016-12-02         19         0.1         120           2016-12-02         20         0.0         -           2016-12-02         21         0.0         -           2016-12-02         23         0.0         -           2016-12-07         0         0.0         -           2016-12-07         1         0.0         -           2016-12-07         1         0.0         -           2016-12-07         2         0.0         -           2016-12-07         3         0.0         -           2016-12-07         3         0.0         -           2016-12-07         4         0.0         -           2016-12-07         4         0.0         -           2016-12-07         5         0.1         87           2016-12-07         6         0.0         -           2016-12-07         7         0.2         62           2016-12-07         8         0.1         117           2016-12-07         10         0.0         -				_
2016-12-02         18         0.3         166           2016-12-02         19         0.1         120           2016-12-02         20         0.0         -           2016-12-02         21         0.0         -           2016-12-02         22         0.1         168           2016-12-02         23         0.0         -           2016-12-07         0         0.0         -           2016-12-07         1         0.0         -           2016-12-07         2         0.0         -           2016-12-07         3         0.0         -           2016-12-07         4         0.0         -           2016-12-07         5         0.1         87           2016-12-07         6         0.0         -           2016-12-07         7         0.2         62           2016-12-07         8         0.1         117           2016-12-07         10         0.0         -           2016-12-07         11         0.1         177           2016-12-07         12         0.0         -           2016-12-07         13         0.0         -				
2016-12-02         19         0.1         120           2016-12-02         20         0.0         -           2016-12-02         21         0.0         -           2016-12-02         22         0.1         168           2016-12-07         0         0.0         -           2016-12-07         1         0.0         -           2016-12-07         2         0.0         -           2016-12-07         3         0.0         -           2016-12-07         4         0.0         -           2016-12-07         5         0.1         87           2016-12-07         6         0.0         -           2016-12-07         7         0.2         62           2016-12-07         8         0.1         117           2016-12-07         10         0.0         -           2016-12-07         10         0.0         -           2016-12-07         11         0.1         177           2016-12-07         12         0.0         -           2016-12-07         13         0.0         -           2016-12-07         14         0.0         -				
2016-12-02         20         0.0         -           2016-12-02         21         0.0         -           2016-12-02         22         0.1         168           2016-12-02         23         0.0         -           2016-12-07         0         0.0         -           2016-12-07         1         0.0         -           2016-12-07         2         0.0         -           2016-12-07         3         0.0         -           2016-12-07         4         0.0         -           2016-12-07         5         0.1         87           2016-12-07         6         0.0         -           2016-12-07         8         0.1         117           2016-12-07         9         0.0         -           2016-12-07         10         0.0         -           2016-12-07         11         0.1         177           2016-12-07         12         0.0         -           2016-12-07         13         0.0         -           2016-12-07         14         0.0         -           2016-12-07         14         0.0         -				
2016-12-02         21         0.0         -           2016-12-02         22         0.1         168           2016-12-07         0         0.0         -           2016-12-07         1         0.0         -           2016-12-07         2         0.0         -           2016-12-07         3         0.0         -           2016-12-07         4         0.0         -           2016-12-07         5         0.1         87           2016-12-07         6         0.0         -           2016-12-07         7         0.2         62           2016-12-07         8         0.1         117           2016-12-07         9         0.0         -           2016-12-07         10         0.0         -           2016-12-07         11         0.1         177           2016-12-07         12         0.0         -           2016-12-07         13         0.0         -           2016-12-07         14         0.0         -           2016-12-07         15         0.0         -           2016-12-07         16         0.0         -				
2016-12-02         22         0.1         168           2016-12-02         23         0.0         -           2016-12-07         0         0.0         -           2016-12-07         1         0.0         -           2016-12-07         2         0.0         -           2016-12-07         3         0.0         -           2016-12-07         4         0.0         -           2016-12-07         5         0.1         87           2016-12-07         6         0.0         -           2016-12-07         7         0.2         62           2016-12-07         8         0.1         117           2016-12-07         9         0.0         -           2016-12-07         10         0.0         -           2016-12-07         11         0.1         177           2016-12-07         12         0.0         -           2016-12-07         13         0.0         -           2016-12-07         14         0.0         -           2016-12-07         14         0.0         -           2016-12-07         15         0.0         -				
2016-12-02         23         0.0         -           2016-12-07         0         0.0         -           2016-12-07         1         0.0         -           2016-12-07         2         0.0         -           2016-12-07         3         0.0         -           2016-12-07         4         0.0         -           2016-12-07         5         0.1         87           2016-12-07         6         0.0         -           2016-12-07         7         0.2         62           2016-12-07         8         0.1         117           2016-12-07         9         0.0         -           2016-12-07         10         0.0         -           2016-12-07         11         0.1         177           2016-12-07         12         0.0         -           2016-12-07         13         0.0         -           2016-12-07         14         0.0         -           2016-12-07         15         0.0         -           2016-12-07         16         0.0         -           2016-12-07         18         0.0         -				
2016-12-07         0         0.0         -           2016-12-07         1         0.0         -           2016-12-07         2         0.0         -           2016-12-07         3         0.0         -           2016-12-07         4         0.0         -           2016-12-07         5         0.1         87           2016-12-07         6         0.0         -           2016-12-07         7         0.2         62           2016-12-07         8         0.1         117           2016-12-07         9         0.0         -           2016-12-07         10         0.0         -           2016-12-07         11         0.1         177           2016-12-07         12         0.0         -           2016-12-07         13         0.0         -           2016-12-07         14         0.0         -           2016-12-07         15         0.0         -           2016-12-07         16         0.0         -           2016-12-07         18         0.0         -           2016-12-07         18         0.0         -		i		
2016-12-07         1         0.0         -           2016-12-07         2         0.0         -           2016-12-07         3         0.0         -           2016-12-07         4         0.0         -           2016-12-07         5         0.1         87           2016-12-07         6         0.0         -           2016-12-07         7         0.2         62           2016-12-07         8         0.1         117           2016-12-07         9         0.0         -           2016-12-07         10         0.0         -           2016-12-07         11         0.1         177           2016-12-07         12         0.0         -           2016-12-07         13         0.0         -           2016-12-07         14         0.0         -           2016-12-07         15         0.0         -           2016-12-07         16         0.0         -           2016-12-07         18         0.0         -           2016-12-07         19         0.0         -           2016-12-07         19         0.0         -				-
2016-12-07         2         0.0         -           2016-12-07         3         0.0         -           2016-12-07         4         0.0         -           2016-12-07         5         0.1         87           2016-12-07         6         0.0         -           2016-12-07         7         0.2         62           2016-12-07         8         0.1         117           2016-12-07         9         0.0         -           2016-12-07         10         0.0         -           2016-12-07         11         0.1         177           2016-12-07         12         0.0         -           2016-12-07         13         0.0         -           2016-12-07         14         0.0         -           2016-12-07         15         0.0         -           2016-12-07         16         0.0         -           2016-12-07         18         0.0         -           2016-12-07         19         0.0         -           2016-12-07         19         0.0         -           2016-12-07         20         0.2         192				-
2016-12-07       3       0.0       -         2016-12-07       4       0.0       -         2016-12-07       5       0.1       87         2016-12-07       6       0.0       -         2016-12-07       7       0.2       62         2016-12-07       8       0.1       117         2016-12-07       9       0.0       -         2016-12-07       10       0.0       -         2016-12-07       11       0.1       177         2016-12-07       12       0.0       -         2016-12-07       13       0.0       -         2016-12-07       14       0.0       -         2016-12-07       15       0.0       -         2016-12-07       16       0.0       -         2016-12-07       18       0.0       -         2016-12-07       18       0.0       -         2016-12-07       19       0.0       -         2016-12-07       19       0.0       -         2016-12-07       20       0.2       192         2016-12-07       21       0.4       190	2016-12-07			-
2016-12-07       4       0.0       -         2016-12-07       5       0.1       87         2016-12-07       6       0.0       -         2016-12-07       7       0.2       62         2016-12-07       8       0.1       117         2016-12-07       9       0.0       -         2016-12-07       10       0.0       -         2016-12-07       11       0.1       177         2016-12-07       12       0.0       -         2016-12-07       13       0.0       -         2016-12-07       14       0.0       -         2016-12-07       15       0.0       -         2016-12-07       16       0.0       -         2016-12-07       18       0.0       -         2016-12-07       18       0.0       -         2016-12-07       19       0.0       -         2016-12-07       19       0.0       -         2016-12-07       19       0.0       -         2016-12-07       20       0.2       192         2016-12-07       21       0.4       190	2016-12-07		0.0	-
2016-12-07       4       0.0       -         2016-12-07       5       0.1       87         2016-12-07       6       0.0       -         2016-12-07       7       0.2       62         2016-12-07       8       0.1       117         2016-12-07       9       0.0       -         2016-12-07       10       0.0       -         2016-12-07       11       0.1       177         2016-12-07       12       0.0       -         2016-12-07       13       0.0       -         2016-12-07       14       0.0       -         2016-12-07       15       0.0       -         2016-12-07       16       0.0       -         2016-12-07       18       0.0       -         2016-12-07       18       0.0       -         2016-12-07       19       0.0       -         2016-12-07       19       0.0       -         2016-12-07       19       0.0       -         2016-12-07       20       0.2       192         2016-12-07       21       0.4       190	2016-12-07	3	0.0	
2016-12-07         5         0.1         87           2016-12-07         6         0.0         -           2016-12-07         7         0.2         62           2016-12-07         8         0.1         117           2016-12-07         9         0.0         -           2016-12-07         10         0.0         -           2016-12-07         11         0.1         177           2016-12-07         12         0.0         -           2016-12-07         13         0.0         -           2016-12-07         14         0.0         -           2016-12-07         15         0.0         -           2016-12-07         16         0.0         -           2016-12-07         17         0.3         190           2016-12-07         18         0.0         -           2016-12-07         19         0.0         -           2016-12-07         20         0.2         192           2016-12-07         21         0.4         190			0.0	-
2016-12-07       6       0.0       -         2016-12-07       7       0.2       62         2016-12-07       8       0.1       117         2016-12-07       9       0.0       -         2016-12-07       10       0.0       -         2016-12-07       11       0.1       177         2016-12-07       12       0.0       -         2016-12-07       13       0.0       -         2016-12-07       14       0.0       -         2016-12-07       15       0.0       -         2016-12-07       16       0.0       -         2016-12-07       17       0.3       190         2016-12-07       18       0.0       -         2016-12-07       19       0.0       -         2016-12-07       20       0.2       192         2016-12-07       21       0.4       190			<del></del>	87
2016-12-07       7       0.2       62         2016-12-07       8       0.1       117         2016-12-07       9       0.0       -         2016-12-07       10       0.0       -         2016-12-07       11       0.1       177         2016-12-07       12       0.0       -         2016-12-07       13       0.0       -         2016-12-07       14       0.0       -         2016-12-07       15       0.0       -         2016-12-07       16       0.0       -         2016-12-07       17       0.3       190         2016-12-07       18       0.0       -         2016-12-07       19       0.0       -         2016-12-07       20       0.2       192         2016-12-07       21       0.4       190				
2016-12-07       8       0.1       117         2016-12-07       9       0.0       -         2016-12-07       10       0.0       -         2016-12-07       11       0.1       177         2016-12-07       12       0.0       -         2016-12-07       13       0.0       -         2016-12-07       14       0.0       -         2016-12-07       15       0.0       -         2016-12-07       16       0.0       -         2016-12-07       17       0.3       190         2016-12-07       18       0.0       -         2016-12-07       19       0.0       -         2016-12-07       20       0.2       192         2016-12-07       21       0.4       190				
2016-12-07       9       0.0       -         2016-12-07       10       0.0       -         2016-12-07       11       0.1       177         2016-12-07       12       0.0       -         2016-12-07       13       0.0       -         2016-12-07       14       0.0       -         2016-12-07       15       0.0       -         2016-12-07       16       0.0       -         2016-12-07       17       0.3       190         2016-12-07       18       0.0       -         2016-12-07       19       0.0       -         2016-12-07       20       0.2       192         2016-12-07       21       0.4       190				
2016-12-07       10       0.0       -         2016-12-07       11       0.1       177         2016-12-07       12       0.0       -         2016-12-07       13       0.0       -         2016-12-07       14       0.0       -         2016-12-07       15       0.0       -         2016-12-07       16       0.0       -         2016-12-07       17       0.3       190         2016-12-07       18       0.0       -         2016-12-07       19       0.0       -         2016-12-07       20       0.2       192         2016-12-07       21       0.4       190				
2016-12-07       11       0.1       177         2016-12-07       12       0.0       -         2016-12-07       13       0.0       -         2016-12-07       14       0.0       -         2016-12-07       15       0.0       -         2016-12-07       16       0.0       -         2016-12-07       17       0.3       190         2016-12-07       18       0.0       -         2016-12-07       19       0.0       -         2016-12-07       20       0.2       192         2016-12-07       21       0.4       190				
2016-12-07       12       0.0       -         2016-12-07       13       0.0       -         2016-12-07       14       0.0       -         2016-12-07       15       0.0       -         2016-12-07       16       0.0       -         2016-12-07       17       0.3       190         2016-12-07       18       0.0       -         2016-12-07       19       0.0       -         2016-12-07       20       0.2       192         2016-12-07       21       0.4       190		i		
2016-12-07       13       0.0       -         2016-12-07       14       0.0       -         2016-12-07       15       0.0       -         2016-12-07       16       0.0       -         2016-12-07       17       0.3       190         2016-12-07       18       0.0       -         2016-12-07       19       0.0       -         2016-12-07       20       0.2       192         2016-12-07       21       0.4       190			<del></del>	177
2016-12-07       14       0.0       -         2016-12-07       15       0.0       -         2016-12-07       16       0.0       -         2016-12-07       17       0.3       190         2016-12-07       18       0.0       -         2016-12-07       19       0.0       -         2016-12-07       20       0.2       192         2016-12-07       21       0.4       190				-
2016-12-07       15       0.0       -         2016-12-07       16       0.0       -         2016-12-07       17       0.3       190         2016-12-07       18       0.0       -         2016-12-07       19       0.0       -         2016-12-07       20       0.2       192         2016-12-07       21       0.4       190				-
2016-12-07       16       0.0       -         2016-12-07       17       0.3       190         2016-12-07       18       0.0       -         2016-12-07       19       0.0       -         2016-12-07       20       0.2       192         2016-12-07       21       0.4       190	2016-12-07	14	0.0	
2016-12-07       16       0.0       -         2016-12-07       17       0.3       190         2016-12-07       18       0.0       -         2016-12-07       19       0.0       -         2016-12-07       20       0.2       192         2016-12-07       21       0.4       190	2016-12-07	15	0.0	<u> </u>
2016-12-07     17     0.3     190       2016-12-07     18     0.0     -       2016-12-07     19     0.0     -       2016-12-07     20     0.2     192       2016-12-07     21     0.4     190			<del></del>	-
2016-12-07     18     0.0     -       2016-12-07     19     0.0     -       2016-12-07     20     0.2     192       2016-12-07     21     0.4     190				
2016-12-07     19     0.0     -       2016-12-07     20     0.2     192       2016-12-07     21     0.4     190				
2016-12-07     20     0.2     192       2016-12-07     21     0.4     190				
2016-12-07 21 0.4 190			1	
2016-12-07 22 0.2 188			<del></del>	
	2016-12-07	22	0.2	188

Date	Time (HH)	Wind speed (m/s)	Wind direction (deg)
2016-12-07	23	0.4	192
2016-12-08	0	0.1	183
2016-12-08	1	0.2	193
2016-12-08	2	0.1	181
2016-12-08	3	0.0	-
2016-12-08	4	0.0	-
2016-12-08	5	0.1	166
2016-12-08	6	0.0	-
2016-12-08	7	0.0	-
2016-12-08	8	0.0	-
2016-12-08	9	0.0	-
2016-12-08	10	0.0	-
2016-12-08	11	0.0	-
2016-12-08	12	0.0	-
2016-12-08	13	0.0	-
2016-12-08	14	0.1	266
2016-12-08	15	0.0	-
2016-12-08	16	0.3	190
2016-12-08	17	0.4	182
2016-12-08	18	0.5	190
2016-12-08	19	0.4	194
2016-12-08	20	0.3	195
2016-12-08	21	0.3	183
2016-12-08	22	0.2	192
2016-12-08	23	0.3	187
2016-12-13	0	1.2	174
2016-12-13	1	0.5	119

			****
Date	Time (HH)	Wind speed (m/s)	Wind direction (deg)
2016-12-13	2	0.1	120
2016-12-13	3	0.1	133
2016-12-13	4	0.1	132
2016-12-13	<u> </u>	3.0	165
2016-12-13		3.6	164
2016-12-13	7	0.1	111
2016-12-13	8	0.1	72
2016-12-13	9	0.1	156
2016-12-13	10	0.2	298
2016-12-13	11	0.0	-
2016-12-13	12	0.0	-
2016-12-13	13	0.0	-
2016-12-13	14	0.0	-
2016-12-13	15	0.1	172
2016-12-13	16	0.1	198
2016-12-13	17	0.1	192
2016-12-13	18	0.0	-
2016-12-13	19	0.0	-
2016-12-13	20	0.0	-
2016-12-13	21	0.0	-
2016-12-13	22	0.0	-
2016-12-13	23	0.0	-
2016-12-14	0	0.0	-
2016-12-14	1	0.2	297
2016-12-14	2	0.3	292
2016-12-14	3	0.1	314
2016-12-14	4	0.1	189
2016-12-14	5	0.1	182
2016-12-14	6	0.2	67
2016-12-14	7	0.3	44
2016-12-14	8	0.2	79
2016-12-14	9	0.4	202
2016-12-14	10	0.0	-
2016-12-14	11	0.0	-
2016-12-14	12	0.0	-
2016-12-14	13	0.0	-
2016-12-14	14	0.0	-
2016-12-14	15	0.0	-
2016-12-14	16	0.1	89
2016-12-14	17	0.0	-
2016-12-14	18	0.0	-
2016-12-14	19	0.1	202
2016-12-14	20	0.3	216
2016-12-14	21	0.2	221
2016-12-14	22	0.4	308
2016-12-14	23	0.3	290
2016-12-19	0	1.6	156
2016-12-19	1	1.2	166
2016-12-19	2	1.7	182
2016-12-19	3	2.9	167
2016-12-19	4	2.0	211
2016-12-19	5	3.8	163
2016-12-19	6	0.1	125
2016-12-19	7	0.2	188
2016-12-19	8	0.4	195
2016-12-19	9	0.7	174
2016-12-19	10	1.1	183
2016-12-19	11	1.0	140
2016-12-19	12	0.6	125
2016-12-19	13	1.8	168
2016-12-19	14	1.4	156
2016-12-19	15	2.1	171
2016-12-19	16	1.9	174
2016-12-19	17	0.1	194
2016-12-19	18	0.9	183
2016-12-19	19	0.9	172
2016-12-19	20	0.5	190
2016-12-19	21	1.5	182
2016-12-19	22	0.2	91
2016-12-19	23	0.1	86
2016-12-20	0	0.1	107

Date   Time (HI)   Wind speed (m/s)   Wind direction (c. 2016-12-20)   1   0.0   - 1   2016-12-20   2   0.2   133   3   0.2   142   2016-12-20   3   0.2   142   2016-12-20   5   0.6   215   2016-12-20   5   0.6   215   2016-12-20   6   1.0   202   2016-12-20   7   1.0   171   202   2016-12-20   9   0.8   1.3   188   2016-12-20   10   0.5   199   2016-12-20   10   0.5   199   2016-12-20   10   0.5   199   2016-12-20   11   1.0   181   2016-12-20   12   1.5   155   155   2016-12-20   13   0.8   115   2016-12-20   14   1.2   122   122   2016-12-20   15   1.0   82   2016-12-20   15   1.0   82   2016-12-20   16   0.3   139   2016-12-20   17   0.2   139   2016-12-20   17   0.2   139   2016-12-20   18   0.0   - 2016-12-20   19   0.8   160   2016-12-20   19   0.8   160   2016-12-20   20   0.6   153   2016-12-20   20   0.6   153   2016-12-20   20   0.6   153   2016-12-20   20   0.6   153   2016-12-20   20   0.6   153   2016-12-20   20   0.6   153   2016-12-20   21   0.7   149   2016-12-20   22   0.1   124   2016-12-20   23   0.0   - 2016-12-22   20   0.0   - 2016-12-22   20   20   0.6   153   2016-12-22   20   0.0   - 2016-12-22   20   0.0   - 2016-12-22   20   0.0   - 2016-12-22   20   0.0   - 2016-12-22   20   0.0   - 2016-12-22   20   20   0.0   - 2016-12-22   20   20   0.0   - 2016-12-22   20   20   0.0   - 2016-12-22   20   20   20   20   20   20   20				
2016-12-20   2   0.2   133   2016-12-20   3   0.2   142   2016-12-20   5   0.6   215   2016-12-20   6   1.0   202   2016-12-20   7   1.0   171   2016-12-20   9   0.8   185   2016-12-20   9   0.8   185   2016-12-20   10   0.5   199   2016-12-20   11   1.0   181   2016-12-20   12   1.5   1.5   155   2016-12-20   14   1.2   122   2016-12-20   15   1.0   82   2016-12-20   16   0.3   139   2016-12-20   17   0.2   139   2016-12-20   18   0.0   - 2016-12-20   19   0.8   160   2016-12-20   19   0.8   10   2016-12-20   15   1.0   82   2016-12-20   16   0.3   139   2016-12-20   17   0.2   139   2016-12-20   18   0.0   - 2016-12-20   19   0.8   160   2016-12-20   20   0.6   153   2016-12-20   20   0.6   153   2016-12-20   20   0.6   153   2016-12-20   20   0.6   153   2016-12-20   20   20   0.6   153   2016-12-20   20   20   0.6   2016-12-20   20   20   0.6   2016-12-20   20   20   0.6   2016-12-20   20   20   0.6   2016-12-20   20   20   0.6   2016-12-20   20   20   0.6   2016-12-20   20   20   0.6   2016-12-20   20   20   20   2016-12-20   20   20   20   2016-12-20   20   20   2016-12-20   20   20   20   2016-12-20   20   20   2016-12-20   20   2016-12-20   20   2016-12-20   20   20   2016-12-20   20   2016-12-20   20   2016-12-20   20   2016-12-20   20   2016-12-20   20   2016-12-20   2016-	Date	Time (HH)	Wind speed (m/s)	Wind direction (deg)
2016-12-20   3				-
2016-12-20				
2016-12-20   5   0.6   215	2016-12-20			142
2016-12-20	2016-12-20		0.2	199
2016-12-20	2016-12-20	5	0.6	215
2016-12-20   8	2016-12-20	6	1.0	202
2016-12-20   8	2016-12-20	7	1.0	171
2016-12-20   9   0.8   185   2016-12-20   10   0.5   199   2016-12-20   11   1.0   181   2016-12-20   12   1.5   155   155   2016-12-20   13   0.8   115   2016-12-20   14   1.2   122   2016-12-20   15   1.0   82   2016-12-20   16   0.3   139   2016-12-20   17   0.2   139   2016-12-20   18   0.0   - 2016-12-20   19   0.8   160   2016-12-20   20   0.6   153   2016-12-20   20   0.6   153   2016-12-20   21   0.7   149   2016-12-20   22   0.0   - 2016-12-20   23   0.0   - 2016-12-20   23   0.0   - 2016-12-22   20   0.0   - 2016-12-23   20   0.0   - 2016-12-23   20   0.0   - 2016-12-23   20   0.0   - 2016-12-23   20   0.0   - 2016-12-23   20   0.0   - 2016-12-23   20   0.0   - 2016-12-23   20   0.0   - 2016-12-23   20   0.0   - 2016-12-23   20   0.0   - 2016-12-23   20   0.0   - 2016-12-23   20   0.0   - 2016-12-23   20   0.0   - 2016-12-23   20   0.0   - 2016-12-23   20   0.0   - 2016-12-23   20   0.0   - 2016-12-23   20   0.0   - 2016-12-23   20   0.0   - 2016-12-23				
2016-12-20				
2016-12-20				
2016-12-20				
2016-12-20				
2016-12-20				
2016-12-20				
2016-12-20				
2016-12-20				
2016-12-20				
2016-12-20	2016-12-20	17	0.2	139
2016-12-20   20	2016-12-20	18	0.0	-
2016-12-20	2016-12-20	19	0.8	160
2016-12-20				
2016-12-20   22   0.1   124				
2016-12-20				
2016-12-22				
2016-12-22				
2016-12-22   2				
2016-12-22   3				
2016-12-22				
2016-12-22         5         0.1         129           2016-12-22         6         0.0         -           2016-12-22         7         0.0         -           2016-12-22         8         0.0         -           2016-12-22         10         0.0         -           2016-12-22         11         0.1         189           2016-12-22         12         0.1         143           2016-12-22         13         0.1         166           2016-12-22         14         0.0         -           2016-12-22         15         0.0         -           2016-12-22         16         0.0         -           2016-12-22         17         0.0         -           2016-12-22         18         0.0         -           2016-12-22         18         0.0         -           2016-12-22         19         0.0         -           2016-12-22         19         0.0         -           2016-12-22         21         0.0         -           2016-12-22         21         0.0         -           2016-12-23         0         0.0         -				
2016-12-22         6         0.0         -           2016-12-22         7         0.0         -           2016-12-22         9         0.0         -           2016-12-22         10         0.0         -           2016-12-22         11         0.1         189           2016-12-22         12         0.1         143           2016-12-22         13         0.1         166           2016-12-22         14         0.0         -           2016-12-22         15         0.0         -           2016-12-22         16         0.0         -           2016-12-22         17         0.0         -           2016-12-22         18         0.0         -           2016-12-22         19         0.0         -           2016-12-22         19         0.0         -           2016-12-22         20         0.0         -           2016-12-22         21         0.0         -           2016-12-22         21         0.0         -           2016-12-23         0         0.0         -           2016-12-23         1         0.0         -				
2016-12-22         7         0.0         -           2016-12-22         8         0.0         -           2016-12-22         9         0.0         -           2016-12-22         10         0.0         -           2016-12-22         11         0.1         189           2016-12-22         12         0.1         143           2016-12-22         13         0.1         166           2016-12-22         14         0.0         -           2016-12-22         15         0.0         -           2016-12-22         16         0.0         -           2016-12-22         18         0.0         -           2016-12-22         19         0.0         -           2016-12-22         19         0.0         -           2016-12-22         20         0.0         -           2016-12-22         20         0.0         -           2016-12-22         20         0.0         -           2016-12-22         20         0.0         -           2016-12-23         0         0.0         -           2016-12-23         1         0.0         -	2016-12-22	5	0.1	129
2016-12-22         7         0.0         -           2016-12-22         8         0.0         -           2016-12-22         9         0.0         -           2016-12-22         10         0.0         -           2016-12-22         11         0.1         189           2016-12-22         12         0.1         143           2016-12-22         13         0.1         166           2016-12-22         14         0.0         -           2016-12-22         15         0.0         -           2016-12-22         16         0.0         -           2016-12-22         18         0.0         -           2016-12-22         19         0.0         -           2016-12-22         19         0.0         -           2016-12-22         20         0.0         -           2016-12-22         20         0.0         -           2016-12-22         20         0.0         -           2016-12-22         20         0.0         -           2016-12-23         0         0.0         -           2016-12-23         1         0.0         -	2016-12-22	6	0.0	-
2016-12-22         8         0.0         -           2016-12-22         9         0.0         -           2016-12-22         10         0.0         -           2016-12-22         11         0.1         189           2016-12-22         12         0.1         143           2016-12-22         13         0.1         166           2016-12-22         14         0.0         -           2016-12-22         15         0.0         -           2016-12-22         16         0.0         -           2016-12-22         18         0.0         -           2016-12-22         18         0.0         -           2016-12-22         19         0.0         -           2016-12-22         20         0.0         -           2016-12-22         20         0.0         -           2016-12-22         20         0.0         -           2016-12-23         2         0.0         -           2016-12-23         3         0.1         55           2016-12-23         3         0.0         -           2016-12-23         3         0.0         -				_
2016-12-22         9         0.0         -           2016-12-22         10         0.0         -           2016-12-22         11         0.1         189           2016-12-22         12         0.1         143           2016-12-22         13         0.1         166           2016-12-22         14         0.0         -           2016-12-22         15         0.0         -           2016-12-22         16         0.0         -           2016-12-22         18         0.0         -           2016-12-22         19         0.0         -           2016-12-22         19         0.0         -           2016-12-22         20         0.0         -           2016-12-22         20         0.0         -           2016-12-22         21         0.0         -           2016-12-22         21         0.0         -           2016-12-22         23         0.1         55           2016-12-23         0         0.0         -           2016-12-23         1         0.0         -           2016-12-23         3         0.0         -				-
2016-12-22         10         0.0         -           2016-12-22         11         0.1         189           2016-12-22         12         0.1         143           2016-12-22         13         0.1         166           2016-12-22         14         0.0         -           2016-12-22         15         0.0         -           2016-12-22         16         0.0         -           2016-12-22         17         0.0         -           2016-12-22         18         0.0         -           2016-12-22         19         0.0         -           2016-12-22         20         0.0         -           2016-12-22         21         0.0         -           2016-12-22         21         0.0         -           2016-12-22         21         0.0         -           2016-12-23         0         0.0         -           2016-12-23         0         0.0         -           2016-12-23         1         0.0         -           2016-12-23         3         0.0         -           2016-12-23         3         0.0         -				
2016-12-22         11         0.1         189           2016-12-22         12         0.1         143           2016-12-22         13         0.1         166           2016-12-22         14         0.0         -           2016-12-22         15         0.0         -           2016-12-22         16         0.0         -           2016-12-22         17         0.0         -           2016-12-22         18         0.0         -           2016-12-22         19         0.0         -           2016-12-22         20         0.0         -           2016-12-22         20         0.0         -           2016-12-22         21         0.0         -           2016-12-22         22         0.0         -           2016-12-23         0         0.0         -           2016-12-23         1         0.0         -           2016-12-23         1         0.0         -           2016-12-23         2         0.0         -           2016-12-23         3         0.0         -           2016-12-23         4         0.0         -				
2016-12-22         12         0.1         143           2016-12-22         13         0.1         166           2016-12-22         14         0.0         -           2016-12-22         15         0.0         -           2016-12-22         16         0.0         -           2016-12-22         17         0.0         -           2016-12-22         18         0.0         -           2016-12-22         19         0.0         -           2016-12-22         20         0.0         -           2016-12-22         21         0.0         -           2016-12-22         22         0.0         -           2016-12-23         0         0.0         -           2016-12-23         1         0.0         -           2016-12-23         2         0.0         -           2016-12-23         3         0.0         -           2016-12-23         3         0.0         -           2016-12-23         4         0.0         -           2016-12-23         5         0.0         -           2016-12-23         7         0.0         -				
2016-12-22         13         0.1         166           2016-12-22         14         0.0         -           2016-12-22         15         0.0         -           2016-12-22         16         0.0         -           2016-12-22         17         0.0         -           2016-12-22         18         0.0         -           2016-12-22         19         0.0         -           2016-12-22         20         0.0         -           2016-12-22         21         0.0         -           2016-12-22         22         0.0         -           2016-12-23         0         0.0         -           2016-12-23         1         0.0         -           2016-12-23         2         0.0         -           2016-12-23         3         0.0         -           2016-12-23         4         0.0         -           2016-12-23         5         0.0         -           2016-12-23         5         0.0         -           2016-12-23         6         0.0         -           2016-12-23         7         0.0         -           <				
2016-12-22         14         0.0         -           2016-12-22         15         0.0         -           2016-12-22         16         0.0         -           2016-12-22         17         0.0         -           2016-12-22         18         0.0         -           2016-12-22         19         0.0         -           2016-12-22         20         0.0         -           2016-12-22         21         0.0         -           2016-12-22         22         0.0         -           2016-12-23         0         0.0         -           2016-12-23         1         0.0         -           2016-12-23         2         0.0         -           2016-12-23         3         0.0         -           2016-12-23         3         0.0         -           2016-12-23         4         0.0         -           2016-12-23         5         0.0         -           2016-12-23         6         0.0         -           2016-12-23         7         0.0         -           2016-12-23         9         0.1         74 <td< td=""><td></td><td></td><td></td><td></td></td<>				
2016-12-22         15         0.0         -           2016-12-22         16         0.0         -           2016-12-22         17         0.0         -           2016-12-22         18         0.0         -           2016-12-22         19         0.0         -           2016-12-22         20         0.0         -           2016-12-22         21         0.0         -           2016-12-22         22         0.0         -           2016-12-23         0         0.0         -           2016-12-23         1         0.0         -           2016-12-23         2         0.0         -           2016-12-23         3         0.0         -           2016-12-23         3         0.0         -           2016-12-23         4         0.0         -           2016-12-23         5         0.0         -           2016-12-23         5         0.0         -           2016-12-23         6         0.0         -           2016-12-23         7         0.0         -           2016-12-23         9         0.1         74				
2016-12-22         16         0.0         -           2016-12-22         17         0.0         -           2016-12-22         18         0.0         -           2016-12-22         19         0.0         -           2016-12-22         20         0.0         -           2016-12-22         21         0.0         -           2016-12-22         22         0.0         -           2016-12-23         0         0.0         -           2016-12-23         1         0.0         -           2016-12-23         2         0.0         -           2016-12-23         3         0.0         -           2016-12-23         4         0.0         -           2016-12-23         5         0.0         -           2016-12-23         5         0.0         -           2016-12-23         6         0.0         -           2016-12-23         7         0.0         -           2016-12-23         8         0.1         51           2016-12-23         9         0.1         74           2016-12-23         10         0.0         - <td< td=""><td></td><td></td><td></td><td>-</td></td<>				-
2016-12-22         17         0.0         -           2016-12-22         18         0.0         -           2016-12-22         19         0.0         -           2016-12-22         20         0.0         -           2016-12-22         21         0.0         -           2016-12-22         22         0.0         -           2016-12-23         0         0.0         -           2016-12-23         1         0.0         -           2016-12-23         2         0.0         -           2016-12-23         3         0.0         -           2016-12-23         3         0.0         -           2016-12-23         4         0.0         -           2016-12-23         5         0.0         -           2016-12-23         6         0.0         -           2016-12-23         7         0.0         -           2016-12-23         8         0.1         51           2016-12-23         9         0.1         74           2016-12-23         10         0.0         -           2016-12-23         11         0.0         - <td< td=""><td>2016-12-22</td><td>15</td><td>0.0</td><td>-</td></td<>	2016-12-22	15	0.0	-
2016-12-22         18         0.0         -           2016-12-22         19         0.0         -           2016-12-22         20         0.0         -           2016-12-22         21         0.0         -           2016-12-22         22         0.0         -           2016-12-23         0         0.0         -           2016-12-23         1         0.0         -           2016-12-23         2         0.0         -           2016-12-23         3         0.0         -           2016-12-23         4         0.0         -           2016-12-23         5         0.0         -           2016-12-23         6         0.0         -           2016-12-23         7         0.0         -           2016-12-23         8         0.1         51           2016-12-23         9         0.1         74           2016-12-23         10         0.0         -           2016-12-23         11         0.0         -           2016-12-23         12         0.0         -           2016-12-23         12         0.0         - <t< td=""><td>2016-12-22</td><td>16</td><td>0.0</td><td>-</td></t<>	2016-12-22	16	0.0	-
2016-12-22         19         0.0         -           2016-12-22         20         0.0         -           2016-12-22         21         0.0         -           2016-12-22         22         0.0         -           2016-12-23         0         0.0         -           2016-12-23         1         0.0         -           2016-12-23         2         0.0         -           2016-12-23         3         0.0         -           2016-12-23         4         0.0         -           2016-12-23         5         0.0         -           2016-12-23         6         0.0         -           2016-12-23         7         0.0         -           2016-12-23         8         0.1         51           2016-12-23         9         0.1         74           2016-12-23         10         0.0         -           2016-12-23         11         0.0         -           2016-12-23         12         0.0         -           2016-12-23         12         0.0         -           2016-12-23         13         0.1         277	2016-12-22	17	0.0	-
2016-12-22         20         0.0         -           2016-12-22         21         0.0         -           2016-12-22         22         0.0         -           2016-12-23         0         0.1         55           2016-12-23         1         0.0         -           2016-12-23         2         0.0         -           2016-12-23         3         0.0         -           2016-12-23         4         0.0         -           2016-12-23         5         0.0         -           2016-12-23         6         0.0         -           2016-12-23         7         0.0         -           2016-12-23         8         0.1         51           2016-12-23         9         0.1         74           2016-12-23         10         0.0         -           2016-12-23         11         0.0         -           2016-12-23         12         0.0         -           2016-12-23         13         0.1         277           2016-12-23         13         0.1         277           2016-12-23         14         0.0         -	2016-12-22	18	0.0	-
2016-12-22         20         0.0         -           2016-12-22         21         0.0         -           2016-12-22         22         0.0         -           2016-12-23         0         0.1         55           2016-12-23         1         0.0         -           2016-12-23         2         0.0         -           2016-12-23         3         0.0         -           2016-12-23         4         0.0         -           2016-12-23         5         0.0         -           2016-12-23         6         0.0         -           2016-12-23         7         0.0         -           2016-12-23         8         0.1         51           2016-12-23         9         0.1         74           2016-12-23         10         0.0         -           2016-12-23         11         0.0         -           2016-12-23         12         0.0         -           2016-12-23         13         0.1         277           2016-12-23         13         0.1         277           2016-12-23         14         0.0         -	2016-12-22	19	0.0	-
2016-12-22         21         0.0         -           2016-12-22         22         0.0         -           2016-12-23         0         0.1         55           2016-12-23         1         0.0         -           2016-12-23         2         0.0         -           2016-12-23         3         0.0         -           2016-12-23         4         0.0         -           2016-12-23         5         0.0         -           2016-12-23         6         0.0         -           2016-12-23         7         0.0         -           2016-12-23         8         0.1         51           2016-12-23         9         0.1         74           2016-12-23         10         0.0         -           2016-12-23         11         0.0         -           2016-12-23         12         0.0         -           2016-12-23         13         0.1         277           2016-12-23         14         0.0         -           2016-12-23         14         0.0         -           2016-12-23         15         0.1         154		20	0.0	-
2016-12-22         22         0.0         -           2016-12-23         0         0.1         55           2016-12-23         1         0.0         -           2016-12-23         2         0.0         -           2016-12-23         3         0.0         -           2016-12-23         4         0.0         -           2016-12-23         5         0.0         -           2016-12-23         6         0.0         -           2016-12-23         7         0.0         -           2016-12-23         8         0.1         51           2016-12-23         9         0.1         74           2016-12-23         10         0.0         -           2016-12-23         11         0.0         -           2016-12-23         12         0.0         -           2016-12-23         13         0.1         277           2016-12-23         14         0.0         -           2016-12-23         14         0.0         -           2016-12-23         15         0.1         154				
2016-12-22         23         0.1         55           2016-12-23         0         0.0         -           2016-12-23         1         0.0         -           2016-12-23         2         0.0         -           2016-12-23         3         0.0         -           2016-12-23         4         0.0         -           2016-12-23         5         0.0         -           2016-12-23         6         0.0         -           2016-12-23         7         0.0         -           2016-12-23         8         0.1         51           2016-12-23         9         0.1         74           2016-12-23         10         0.0         -           2016-12-23         11         0.0         -           2016-12-23         12         0.0         -           2016-12-23         13         0.1         277           2016-12-23         14         0.0         -           2016-12-23         15         0.1         154				
2016-12-23         0         0.0         -           2016-12-23         1         0.0         -           2016-12-23         2         0.0         -           2016-12-23         3         0.0         -           2016-12-23         4         0.0         -           2016-12-23         5         0.0         -           2016-12-23         6         0.0         -           2016-12-23         7         0.0         -           2016-12-23         8         0.1         51           2016-12-23         9         0.1         74           2016-12-23         10         0.0         -           2016-12-23         11         0.0         -           2016-12-23         12         0.0         -           2016-12-23         13         0.1         277           2016-12-23         14         0.0         -           2016-12-23         15         0.1         154				
2016-12-23       1       0.0       -         2016-12-23       2       0.0       -         2016-12-23       3       0.0       -         2016-12-23       4       0.0       -         2016-12-23       5       0.0       -         2016-12-23       6       0.0       -         2016-12-23       7       0.0       -         2016-12-23       8       0.1       51         2016-12-23       9       0.1       74         2016-12-23       10       0.0       -         2016-12-23       11       0.0       -         2016-12-23       12       0.0       -         2016-12-23       13       0.1       277         2016-12-23       14       0.0       -         2016-12-23       15       0.1       154				
2016-12-23       2       0.0       -         2016-12-23       3       0.0       -         2016-12-23       4       0.0       -         2016-12-23       5       0.0       -         2016-12-23       6       0.0       -         2016-12-23       7       0.0       -         2016-12-23       8       0.1       51         2016-12-23       9       0.1       74         2016-12-23       10       0.0       -         2016-12-23       11       0.0       -         2016-12-23       12       0.0       -         2016-12-23       13       0.1       277         2016-12-23       14       0.0       -         2016-12-23       15       0.1       154				
2016-12-23       3       0.0       -         2016-12-23       4       0.0       -         2016-12-23       5       0.0       -         2016-12-23       6       0.0       -         2016-12-23       7       0.0       -         2016-12-23       8       0.1       51         2016-12-23       9       0.1       74         2016-12-23       10       0.0       -         2016-12-23       11       0.0       -         2016-12-23       12       0.0       -         2016-12-23       13       0.1       277         2016-12-23       14       0.0       -         2016-12-23       15       0.1       154				
2016-12-23       4       0.0       -         2016-12-23       5       0.0       -         2016-12-23       6       0.0       -         2016-12-23       7       0.0       -         2016-12-23       8       0.1       51         2016-12-23       9       0.1       74         2016-12-23       10       0.0       -         2016-12-23       11       0.0       -         2016-12-23       12       0.0       -         2016-12-23       13       0.1       277         2016-12-23       14       0.0       -         2016-12-23       15       0.1       154				-
2016-12-23       5       0.0       -         2016-12-23       6       0.0       -         2016-12-23       7       0.0       -         2016-12-23       8       0.1       51         2016-12-23       9       0.1       74         2016-12-23       10       0.0       -         2016-12-23       11       0.0       -         2016-12-23       12       0.0       -         2016-12-23       13       0.1       277         2016-12-23       14       0.0       -         2016-12-23       15       0.1       154				-
2016-12-23       6       0.0       -         2016-12-23       7       0.0       -         2016-12-23       8       0.1       51         2016-12-23       9       0.1       74         2016-12-23       10       0.0       -         2016-12-23       11       0.0       -         2016-12-23       12       0.0       -         2016-12-23       13       0.1       277         2016-12-23       14       0.0       -         2016-12-23       15       0.1       154				-
2016-12-23       7       0.0       -         2016-12-23       8       0.1       51         2016-12-23       9       0.1       74         2016-12-23       10       0.0       -         2016-12-23       11       0.0       -         2016-12-23       12       0.0       -         2016-12-23       13       0.1       277         2016-12-23       14       0.0       -         2016-12-23       15       0.1       154				-
2016-12-23     8     0.1     51       2016-12-23     9     0.1     74       2016-12-23     10     0.0     -       2016-12-23     11     0.0     -       2016-12-23     12     0.0     -       2016-12-23     13     0.1     277       2016-12-23     14     0.0     -       2016-12-23     15     0.1     154	2016-12-23		0.0	-
2016-12-23     8     0.1     51       2016-12-23     9     0.1     74       2016-12-23     10     0.0     -       2016-12-23     11     0.0     -       2016-12-23     12     0.0     -       2016-12-23     13     0.1     277       2016-12-23     14     0.0     -       2016-12-23     15     0.1     154	2016-12-23	7	0.0	
2016-12-23     9     0.1     74       2016-12-23     10     0.0     -       2016-12-23     11     0.0     -       2016-12-23     12     0.0     -       2016-12-23     13     0.1     277       2016-12-23     14     0.0     -       2016-12-23     15     0.1     154				51
2016-12-23     10     0.0     -       2016-12-23     11     0.0     -       2016-12-23     12     0.0     -       2016-12-23     13     0.1     277       2016-12-23     14     0.0     -       2016-12-23     15     0.1     154				
2016-12-23     11     0.0     -       2016-12-23     12     0.0     -       2016-12-23     13     0.1     277       2016-12-23     14     0.0     -       2016-12-23     15     0.1     154				
2016-12-23     12     0.0     -       2016-12-23     13     0.1     277       2016-12-23     14     0.0     -       2016-12-23     15     0.1     154				
2016-12-23     13     0.1     277       2016-12-23     14     0.0     -       2016-12-23     15     0.1     154				
2016-12-23     14     0.0     -       2016-12-23     15     0.1     154				
2016-12-23 15 0.1 154				
2016-12-23				
2016-12-23 17 0.0 -				
2016-12-23 18 0.2 119	2016-12-23	18	0.2	119
2016-12-23 19 0.0 -	2016-12-23	19	0.0	
2016-12-23 20 0.0 -			0.0	
2016-12-23 21 0.2 127				
2016-12-23 22 0.7 178				
2016-12-23 23 0.8 189				
2010-12-23 23 0.0 109	2010 <sup>-</sup> 12 <sup>-</sup> 23	43	V.0	107

Date	Time (HH)	Wind speed (m/s)	Wind direction (deg)
2016-12-28	0	0.4	290
2016-12-28	1	0.1	320
2016-12-28	2	0.3	288
2016-12-28	3	0.1	266
2016-12-28	4	0.2	310
2016-12-28	5	0.0	-
2016-12-28	6	0.1	295
2016-12-28	7	0.1	254
2016-12-28	8	0.2	271
2016-12-28	9	0.1	272
2016-12-28	10	0.1	246
2016-12-28	11	0.0	-
2016-12-28	12	0.0	-
2016-12-28	13	0.1	198
2016-12-28	14	0.1	249
2016-12-28	15	0.1	318
2016-12-28	16	0.0	-
2016-12-28	17	0.0	-
2016-12-28	18	0.1	197
2016-12-28	19	0.1	219
2016-12-28	20	0.1	298
2016-12-28	21	0.0	-
2016-12-28	22	0.0	-
2016-12-28	23	0.0	-
2016-12-29	0	0.1	238
2016-12-29	1	0.2	266
2016-12-29	2	0.0	-
2016-12-29	3	0.1	277
2016-12-29	4	0.1	318
2016-12-29	5	0.2	282
2016-12-29	6	0.4	308
2016-12-29	7	0.3	286
2016-12-29	8	0.1	248
2016-12-29	9	0.1	287
2016-12-29	10	0.4	319
2016-12-29	11	0.1	248
2016-12-29	12	0.2	248
2016-12-29	13	0.0	-
2016-12-29	14	0.0	-
2016-12-29	15	0.1	181
2016-12-29	16	0.0	-
2016-12-29	17	0.0	-
2016-12-29	18	0.1	67
2016-12-29	19	0.0	-
2016-12-29	20	0.1	95
2016-12-29	21	0.0	-
2016-12-29	22	0.0	-
2016-12-29	23	0.1	76

#### Appendix I

Impact Noise Monitoring Results and Graphical Presentation

Drainet	\A/awka	Data (1999) mm dd)	Ctation	Mosther Condition	Time (blumm 24berry)	Noise L	evel for 30-	min, dB(A)	Limit Level	Wind Speed	Noise Meter	Calibrator
Project	Works	Date (yyyy-mm-dd)	Station	Weather Condition	Time (hh:mm, 24hour)	Leq	L10	L90	dB(A)	(m/s)	Model/ID	Model/ID
TMCLKL	HY/2012/07	2016-12-01	NSR1A	Sunny	9:57	60	60	54	75	0.8	RION NL31 (S/N	RION NC73 (S/N
TWOLKE	111/2012/01	2010-12-01	NONA	Suring	9.51	00	00	54	75	0.0	00603867)	10997142)
TMCLKL	HY/2012/07	2016-12-07	NSR1A	Sunny	14:42	59	61	53	75	0.3	RION NL31 (S/N	RION NC73 (S/N
TWICERE	111/2012/07	2010-12-07	NONIA	Suring	14.42	39	O I	55	75	0.5	00603867)	10997142)
TMCLKL	HY/2012/07	2016-12-13	NSR1A	Sunny	9:35	61	63	57	75	0.2	RION NL31 (S/N	RION NC73 (S/N
TWCLKL	111/2012/07	2010-12-13	NONIA	Suring	9.33	01	03	37	75	0.2	00603867)	10997142)
TMCLKL	HY/2012/07	2016-12-19	NSR1A	Sunny	9:56	61	63	56	75	0.3	RION NL31 (S/N	RION NC73 (S/N
TIVICENE	H1/2012/07	2010-12-19	NORTA	Suring	9.50	01	03	50	75	0.5	00603867)	10997142)
TMCLKL	HY/2012/07	2016-12-22	NSR1A	Sunny	9:22	61	63	56	75	0.3	RION NL31 (S/N	RION NC73 (S/N
TIVICENE	H1/2012/07	2010-12-22	NORTA	Suring	9.22	01	03	50	75	0.5	00603867)	10997142)
TMCLKL	HY/2012/07	2016-12-28	NSR1A	Cloudy	10:43	60	62	55	75	0.2	RION NL31 (S/N	RION NC73 (S/N
TIVICENE	111/2012/07	2010-12-20	NORTA	Cloudy	10.43	00	02	55	75	0.2	00603867)	10997142)
					Min.	59						

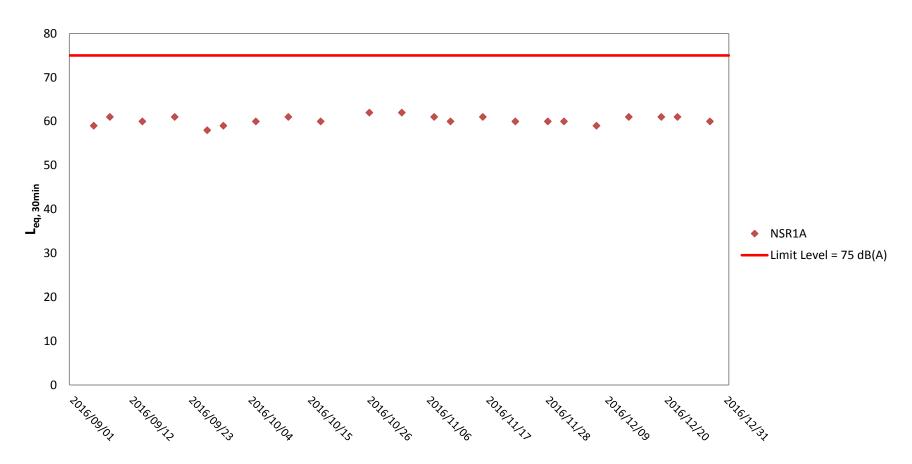
Max.

Average

61

60

#### Noise Monitoring Results at NSR 1A ( $L_{eq, 30min}$ )



Weather condition within the reporting period varied between sunny to rainy.

Major construction works undertaken within the reporting period include Pier construction; Re-alignment of Cheung Tung Road; Road works along North Lantau Highway; Installation of pier head and deck segments; and Slope work of Viaducts A, B & C.

Marine works within the reporting period include Construction and installation of pile caps; Uninstallation of marine piling platform; Pier construction; Launching gantry operation; and Installation of deck segment and pier head segment.

#### Appendix J

Impact Water Quality Monitoring Results and Graphical Presentation

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2016-12-01	Mid-Flood	CS(Mf)5	08:15	Surface	1	1	22.9	7.77	28.4	7.86	8.13	11.2
TMCLKL	HY/2012/07	2016-12-01	Mid-Flood	CS(Mf)5	08:15	Surface	1	2	22.8	7.8	28.5	7.82	8.04	11.1
TMCLKL	HY/2012/07	2016-12-01	Mid-Flood	CS(Mf)5	08:15	Middle	2	1	23.1	7.85	28.6	7.73	8.81	12.2
TMCLKL	HY/2012/07	2016-12-01	Mid-Flood	CS(Mf)5	08:15	Middle	2	2	23.2	7.84	28.5	7.76	8.85	12.2
TMCLKL	HY/2012/07	2016-12-01	Mid-Flood	CS(Mf)5	08:15	Bottom	3	1	23.2	7.78	28.7	7.66	8.57	12
TMCLKL	HY/2012/07	2016-12-01	Mid-Flood	CS(Mf)5	08:15	Bottom	3	2	23.3	7.82	28.8	7.7	8.5	11.9
TMCLKL	HY/2012/07	2016-12-01	Mid-Flood	SR4a	08:35	Surface	1	1	22.9	7.94	28.3	8.2	8.02	11.1
TMCLKL	HY/2012/07	2016-12-01	Mid-Flood	SR4a	08:35	Surface	1	2	23	7.9	28.4	8.18	8	11
TMCLKL	HY/2012/07	2016-12-01	Mid-Flood	SR4a	08:35	Middle	2	1						
TMCLKL	HY/2012/07	2016-12-01	Mid-Flood	SR4a	08:35	Middle	2	2						
TMCLKL	HY/2012/07	2016-12-01	Mid-Flood	SR4a	08:35	Bottom	3	1	23.1	7.88	28.4	8.03	8.09	11.2
TMCLKL	HY/2012/07	2016-12-01	Mid-Flood	SR4a	08:35	Bottom	3	2	23.1	7.86	28.5	7.98	8.05	11.3
TMCLKL	HY/2012/07	2016-12-01	Mid-Flood	SR4	08:55	Surface	1	1	23.1	7.77	28.2		7.68	10.6
TMCLKL	HY/2012/07	2016-12-01	Mid-Flood	SR4	08:55	Surface	1	2	23.1	7.75	28.3	7.69	7.74	10.7
TMCLKL	HY/2012/07	2016-12-01	Mid-Flood	SR4	08:55	Middle	2	1						
TMCLKL	HY/2012/07	2016-12-01	Mid-Flood	SR4	08:55	Middle	2	2						
<b>TMCLKL</b>	HY/2012/07	2016-12-01	Mid-Flood	SR4	08:55	Bottom	3	1	23.2	7.8	28.4	7.35	7.81	11
TMCLKL	HY/2012/07	2016-12-01	Mid-Flood	SR4	08:55	Bottom	3	2	23.1	7.84	28.3	7.32	7.76	11
TMCLKL	HY/2012/07	2016-12-01	Mid-Flood	IS8	09:15	Surface	1	1	23.1	7.8	28.4	7.85	7.6	10.5
TMCLKL	HY/2012/07	2016-12-01	Mid-Flood	IS8	09:15	Surface	1	2	23.2	7.84	28.3	7.81	7.63	10.5
TMCLKL	HY/2012/07	2016-12-01	Mid-Flood	IS8	09:15	Middle	2	1						
TMCLKL	HY/2012/07	2016-12-01	Mid-Flood	IS8		Middle	2	2						
	HY/2012/07	2016-12-01	Mid-Flood	IS8	09:15	Bottom	3	1	23.2	7.87	28.4	7.77	7.75	11
TMCLKL	HY/2012/07	2016-12-01	Mid-Flood	IS8	09:15	Bottom	3	2	23.3	7.83	28.5	7.74	7.78	11
TMCLKL	HY/2012/07	2016-12-01	Mid-Flood	IS(Mf)16	09:35	Surface	1	1	23	7.75	28.2	7.74	7.92	10.9
TMCLKL	HY/2012/07	2016-12-01	Mid-Flood	IS(Mf)16	09:35	Surface	1	2	23.1	7.79	28.3	7.79	7.85	10.8
TMCLKL	HY/2012/07	2016-12-01	Mid-Flood	IS(Mf)16		Middle	2	1	23.2	7.8	28.4	7.87	8.08	10.9
TMCLKL	HY/2012/07	2016-12-01	Mid-Flood	IS(Mf)16	09:35	Middle	2	2	23.1	7.85	28.5		8.15	11.1
TMCLKL	HY/2012/07	2016-12-01	Mid-Flood	IS(Mf)16	09:35	Bottom	3	1	23.3	7.86	28.6	7.65	8.2	11.2
<b>TMCLKL</b>	HY/2012/07	2016-12-01	Mid-Flood	IS(Mf)16		Bottom	3	2	23.4	7.85	28.5	7.62	8.14	11.2
	HY/2012/07	2016-12-01				Surface	1	1	23.1	7.8	28.5		8.17	10.9
TMCLKL	HY/2012/07	2016-12-01	Mid-Flood	IS(Mf)9	09:55	Surface	1	2	23.2	7.77	28.6	7.82	8.08	10.7

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2016-12-01	Mid-Flood	IS(Mf)9	09:55	Middle	2	1						
TMCLKL	HY/2012/07	2016-12-01	Mid-Flood	IS(Mf)9	09:55	Middle	2	2						
TMCLKL	HY/2012/07	2016-12-01	Mid-Flood	IS(Mf)9	09:55	Bottom	3	1	23.3	7.74	28.7	7.62	8.02	10.9
TMCLKL	HY/2012/07	2016-12-01	Mid-Flood	IS(Mf)9	09:55	Bottom	3	2	23.2	7.85	28.8	7.59	7.95	10.8
TMCLKL	HY/2012/07	2016-12-01	Mid-Flood	CS(Mf)3	10:17	Surface	1	1	22.9	7.86	28.4	7.94	8.23	10.9
TMCLKL	HY/2012/07	2016-12-01	Mid-Flood	CS(Mf)3	10:17	Surface	1	2	23	7.89	28.3	7.92	8.14	10.8
TMCLKL	HY/2012/07	2016-12-01	Mid-Flood	CS(Mf)3	10:17	Middle	2	1	23.2	7.78	28.5	8.08	7.97	10.7
TMCLKL	HY/2012/07	2016-12-01	Mid-Flood	CS(Mf)3	10:17	Middle	2	2	23.3	7.82	28.6	8.06	8.01	10.8
<b>TMCLKL</b>	HY/2012/07	2016-12-01	Mid-Flood	CS(Mf)3	10:17	Bottom	3	1	23.5	7.77	28.6	7.83	8.29	11.5
TMCLKL	HY/2012/07	2016-12-01	Mid-Flood	CS(Mf)3	10:17	Bottom	3	2	23.4	7.73	28.7	7.81	8.35	11.5
TMCLKL	HY/2012/07	2016-12-01	Mid-Ebb	CS(Mf)5	14:38	Surface	1	1	23.2	7.81	28.6	7.93	8.24	11.2
TMCLKL	HY/2012/07	2016-12-01	Mid-Ebb	CS(Mf)5	14:38	Surface	1	2	23.3	7.83	28.7	7.95	8.25	11.2
TMCLKL	HY/2012/07	2016-12-01	Mid-Ebb	CS(Mf)5	14:38	Middle	2	1	23.3	7.85	28.7	7.73	8.45	11.5
TMCLKL	HY/2012/07	2016-12-01	Mid-Ebb	CS(Mf)5	14:38	Middle	2	2	23.4	7.86	28.7	7.72	8.47	11.5
<b>TMCLKL</b>	HY/2012/07	2016-12-01	Mid-Ebb	CS(Mf)5	14:38	Bottom	3	1	23.4	7.86	28.8	7.82	8.85	12.2
TMCLKL	HY/2012/07	2016-12-01	Mid-Ebb	CS(Mf)5	14:38	Bottom	3	2	23.5	7.84	28.9	7.84	8.87	12.2
TMCLKL	HY/2012/07	2016-12-01	Mid-Ebb	SR4a	14:17	Surface	1	1	23.5	7.95	28.7	8.21	8.15	10.8
TMCLKL	HY/2012/07	2016-12-01	Mid-Ebb	SR4a	14:17	Surface	1	2	23.4	7.96	28.6	8.22	8.16	10.9
<b>TMCLKL</b>	HY/2012/07	2016-12-01	Mid-Ebb	SR4a	14:17	Middle	2	1						
<b>TMCLKL</b>	HY/2012/07	2016-12-01	Mid-Ebb	SR4a	14:17	Middle	2	2						İ
<b>TMCLKL</b>	HY/2012/07	2016-12-01	Mid-Ebb	SR4a	14:17	Bottom	3	1	23.6	8.01	28.8	7.99	8.23	11.1
<b>TMCLKL</b>	HY/2012/07	2016-12-01	Mid-Ebb	SR4a	14:17	Bottom	3	2	23.6	8.02	28.8	8.01	8.25	11.1
TMCLKL	HY/2012/07	2016-12-01	Mid-Ebb	SR4	13:45	Surface	1	1	23.9	7.83	29	7.83	8.12	10.8
<b>TMCLKL</b>	HY/2012/07	2016-12-01	Mid-Ebb	SR4	13:45	Surface	1	2	23.7	7.86	29.1	7.84	8.13	10.8
<b>TMCLKL</b>	HY/2012/07	2016-12-01	Mid-Ebb	SR4	13:45	Middle	2	1						İ
<b>TMCLKL</b>	HY/2012/07	2016-12-01	Mid-Ebb	SR4	13:45	Middle	2	2						İ
TMCLKL	HY/2012/07	2016-12-01	Mid-Ebb	SR4	13:45	Bottom	3	1	23.6	7.92	29.3	7.65	8.14	10.8
TMCLKL	HY/2012/07	2016-12-01	Mid-Ebb	SR4	13:45	Bottom	3	2	23.7	7.95	29.2	7.63	8.17	10.9
TMCLKL	HY/2012/07	2016-12-01	Mid-Ebb	IS8	13:26	Surface	1	1	23.7	7.76	28.6	7.71	7.77	10.3
TMCLKL	HY/2012/07	2016-12-01	Mid-Ebb	IS8	13:26	Surface	1	2	23.6	7.73	28.7	7.7	7.8	10.4
TMCLKL	HY/2012/07	2016-12-01	Mid-Ebb	IS8	13:26	Middle	2	1						
TMCLKL	HY/2012/07	2016-12-01	Mid-Ebb	IS8	13:26	Middle	2	2						

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2016-12-01	Mid-Ebb	IS8	13:26	Bottom	3	1	23.6	7.72	28.9	7.92	7.92	10.7
TMCLKL	HY/2012/07	2016-12-01	Mid-Ebb	IS8	13:26	Bottom	3	2	23.6	7.69	29.1	7.9	7.95	10.7
TMCLKL	HY/2012/07	2016-12-01	Mid-Ebb	IS(Mf)16	13:06	Surface	1	1	23.6	7.72	28.4	7.81	8.23	10.9
TMCLKL	HY/2012/07	2016-12-01	Mid-Ebb	IS(Mf)16	13:06	Surface	1	2	23.7	7.75	28.3	7.8	8.24	11
TMCLKL	HY/2012/07	2016-12-01	Mid-Ebb	IS(Mf)16	13:06	Middle	2	1	23.6	7.77	28.3	7.92	8.3	11
TMCLKL	HY/2012/07	2016-12-01	Mid-Ebb	IS(Mf)16	13:06	Middle	2	2	23.6	7.79	28.4	7.94	8.32	11.1
TMCLKL	HY/2012/07	2016-12-01	Mid-Ebb	IS(Mf)16	13:06	Bottom	3	1	23.7	7.81	28.5	7.62	8.34	11.3
TMCLKL	HY/2012/07	2016-12-01	Mid-Ebb	IS(Mf)16	13:06	Bottom	3	2	23.8	7.82	28.6	7.65	8.35	11.2
TMCLKL	HY/2012/07	2016-12-01	Mid-Ebb	IS(Mf)9	12:46	Surface	1	1	23.5	7.88	28.9	7.91	8.29	11
TMCLKL	HY/2012/07	2016-12-01	Mid-Ebb	IS(Mf)9	12:46	Surface	1	2	23.6	7.84	28.8	7.87	8.26	11
TMCLKL	HY/2012/07	2016-12-01	Mid-Ebb	IS(Mf)9	12:46	Middle	2	1						
TMCLKL	HY/2012/07	2016-12-01	Mid-Ebb	IS(Mf)9	12:46	Middle	2	2						
TMCLKL	HY/2012/07	2016-12-01	Mid-Ebb	IS(Mf)9	12:46	Bottom	3	1	23.6	7.81	29.2	8.02	8.16	11.1
TMCLKL	HY/2012/07	2016-12-01	Mid-Ebb	IS(Mf)9	12:46	Bottom	3	2	23.5	7.83	29.1	8.04	8.14	11.1
TMCLKL	HY/2012/07	2016-12-01	Mid-Ebb	CS(Mf)3	12:26	Surface	1	1	23.4	7.93	29.1	8.02	8.37	11.1
TMCLKL	HY/2012/07	2016-12-01	Mid-Ebb	CS(Mf)3	12:26	Surface	1	2	23.6	7.96	29.2	8.05	8.38	11.1
TMCLKL	HY/2012/07	2016-12-01	Mid-Ebb	CS(Mf)3	12:26	Middle	2	1	23.6	7.82	29.3	8.15	8.16	10.9
TMCLKL	HY/2012/07	2016-12-01	Mid-Ebb	CS(Mf)3	12:26	Middle	2	2	23.3	7.84	29.4	8.17	8.14	10.8
<b>TMCLKL</b>	HY/2012/07	2016-12-01	Mid-Ebb	CS(Mf)3	12:26	Bottom	3	1	23.3	7.9	29.4	7.89	8.4	11.3
TMCLKL	HY/2012/07	2016-12-01	Mid-Ebb	CS(Mf)3	12:26	Bottom	3	2	23.4	7.91	29.6	7.84	8.44	11.5
TMCLKL	HY/2012/07	2016-12-03	Mid-Flood	CS(Mf)5	09:17	Surface	1	1	23.2	7.76	27.9	7.46	7.46	10.3
TMCLKL	HY/2012/07	2016-12-03	Mid-Flood	CS(Mf)5	09:17	Surface	1	2	23.2	7.8	28	7.41	7.39	10.2
<b>TMCLKL</b>	HY/2012/07	2016-12-03	Mid-Flood	CS(Mf)5	09:17	Middle	2	1	23.2	7.71	28	7.29	7.78	10.7
<b>TMCLKL</b>	HY/2012/07	2016-12-03	Mid-Flood	CS(Mf)5	09:17	Middle	2	2	23.3	7.75	28.1	7.33	7.69	10.6
TMCLKL	HY/2012/07	2016-12-03	Mid-Flood	CS(Mf)5	09:17	Bottom	3	1	23.3	7.84	28.3	•	7.5	10.5
TMCLKL	HY/2012/07	2016-12-03	Mid-Flood	CS(Mf)5		Bottom	3	2	23.3	7.87	28.3	7.17	7.59	10.6
TMCLKL	HY/2012/07	2016-12-03	Mid-Flood	SR4a	09:43	Surface	1	1	23.2	7.84	28		7.38	10.2
TMCLKL	HY/2012/07	2016-12-03	Mid-Flood	SR4a	09:43	Surface	1	2	23.3	7.79	28	7.35	7.3	10.1
TMCLKL	HY/2012/07	2016-12-03	Mid-Flood	SR4a	09:43	Middle	2	1	-	-	-	-	-	-
TMCLKL	HY/2012/07	2016-12-03	Mid-Flood	SR4a	09:43	Middle	2	2						
TMCLKL	HY/2012/07	2016-12-03	Mid-Flood	SR4a	09:43	Bottom	3	1	23.3	7.73	28	7.43	7.52	10.5
TMCLKL	HY/2012/07	2016-12-03	Mid-Flood	SR4a	09:43	Bottom	3	2	23.3	7.77	28.1	7.47	7.48	10.5

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2016-12-03	Mid-Flood	SR4	10:00	Surface	1	1	23.2	7.87	27.9	7.33	7.29	10.1
TMCLKL	HY/2012/07	2016-12-03	Mid-Flood	SR4	10:00	Surface	1	2	23.2	7.82	27.9	7.27	7.33	10.1
TMCLKL	HY/2012/07	2016-12-03	Mid-Flood	SR4	10:00	Middle	2	1	-	-	-	-	-	-
TMCLKL	HY/2012/07	2016-12-03	Mid-Flood	SR4		Middle	2	2						
TMCLKL	HY/2012/07	2016-12-03	Mid-Flood	SR4	10:00	Bottom	3	1	23.2	7.87	28		7.4	10.4
TMCLKL	HY/2012/07	2016-12-03	Mid-Flood	SR4	10:00	Bottom	3	2	23.2	7.83	28.1	7.14	7.49	10.6
TMCLKL	HY/2012/07	2016-12-03	Mid-Flood	IS8	10:17	Surface	1	1	23.3	7.85	27.9		7.34	10.1
TMCLKL	HY/2012/07	2016-12-03	Mid-Flood	IS8	10:17	Surface	1	2	23.2	7.89	28	7.59	7.41	10.2
TMCLKL	HY/2012/07	2016-12-03	Mid-Flood	IS8		Middle	2	1	-	-	-	-	-	-
TMCLKL	HY/2012/07	2016-12-03	Mid-Flood	IS8	10:17	Middle	2	2						
	HY/2012/07	2016-12-03	Mid-Flood	IS8	10:17	Bottom	3	1	23.3	7.9	28.2	7.89	7.2	10.2
TMCLKL	HY/2012/07	2016-12-03	Mid-Flood	IS8	10:17	Bottom	3	2	23.3	7.86	28.1	7.84	7.26	10.3
	HY/2012/07	2016-12-03	Mid-Flood	IS(Mf)16	10:36	Surface	1	1	23.3	8.07	27.7	7.66		10.6
TMCLKL	HY/2012/07		Mid-Flood	/	10:36	Surface	1	2	23.4	8.04	27.8	7.64	7.58	10.5
	HY/2012/07		Mid-Flood			Middle	2		23.3	7.87	28		7.37	9.9
TMCLKL	HY/2012/07	2016-12-03	Mid-Flood	IS(Mf)16	10:36	Middle	2	2	23.3	7.9	28.1	7.79	7.3	9.9
TMCLKL	HY/2012/07	2016-12-03	Mid-Flood	IS(Mf)16	10:36	Bottom	3	1	23.4	7.79	28.2	8.07	7.66	10.5
	HY/2012/07	2016-12-03	Mid-Flood	IS(Mf)16		Bottom	3	2	23.4	7.81	28.3		7.71	10.6
TMCLKL	HY/2012/07	2016-12-03	Mid-Flood	IS(Mf)9		Surface	1	1	23.3	7.88	28.1	7.58	7.89	10.5
TMCLKL	HY/2012/07	2016-12-03	Mid-Flood	IS(Mf)9	10:57	Surface	1	2	23.3	7.84	28.1	7.55	7.94	10.6
TMCLKL	HY/2012/07	2016-12-03	Mid-Flood	IS(Mf)9	10:57	Middle	2	1	-	-	-	-	-	_
	HY/2012/07		Mid-Flood	` ′		Middle	2	2						
	HY/2012/07	2016-12-03	Mid-Flood	IS(Mf)9		Bottom	3		23.5		28.3		1	10.5
	HY/2012/07	2016-12-03	Mid-Flood	IS(Mf)9	10:57	Bottom	3	2	23.5	8.04	28.3		7.66	10.4
TMCLKL	HY/2012/07	2016-12-03	Mid-Flood	CS(Mf)3	11:17	Surface	1	1	23.2	8.07	28		7.84	10.4
TMCLKL	HY/2012/07	2016-12-03	Mid-Flood	CS(Mf)3		Surface	1	2	23.3	8.04	28		7.76	10.3
	HY/2012/07	2016-12-03		CS(Mf)3	11:17	Middle	2		23.3	7.89	28.1	7.68	7.73	10.4
	HY/2012/07	2016-12-03		CS(Mf)3	11:17	Middle	2	2	23.3	7.92	28.1	7.72	7.69	10.4
	HY/2012/07	2016-12-03		CS(Mf)3		Bottom	3	1	23.4	8.07	28.2	7.94	7.58	10.5
	HY/2012/07	2016-12-03		<u> </u>		Bottom	3	2	23.4	8.12	28.3		7.62	10.5
	HY/2012/07	2016-12-03		CS(Mf)5		Surface	1	1	23.5	7.74	28.1	7.42	6.95	9.5
TMCLKL	HY/2012/07	2016-12-03	Mid-Ebb	CS(Mf)5	15:32	Surface	1	2	23.4	7.76	28.1	7.44	6.97	9.5

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2016-12-03	Mid-Ebb	CS(Mf)5	15:32	Middle	2	1	23.4	7.83	28.2	7.58	7.14	9.7
TMCLKL	HY/2012/07	2016-12-03	Mid-Ebb	CS(Mf)5	15:32	Middle	2	2	23.4	7.81	28.3		7.15	9.7
TMCLKL	HY/2012/07	2016-12-03	Mid-Ebb	CS(Mf)5	15:32	Bottom	3	1	23.5	8.15	28.4	7.77	7.28	10
TMCLKL	HY/2012/07	2016-12-03	Mid-Ebb	CS(Mf)5	15:32	Bottom	3	2	23.6	8.17	28.3	7.79	7.3	10.1
TMCLKL	HY/2012/07	2016-12-03	Mid-Ebb	SR4a	15:15	Surface	1	1	23.4	8.17	27.9	7.29	7.23	9.6
TMCLKL	HY/2012/07	2016-12-03	Mid-Ebb	SR4a	15:15	Surface	1	2	23.4	8.19	28	7.31	7.26	9.7
TMCLKL	HY/2012/07	2016-12-03	Mid-Ebb	SR4a		Middle	2	1	-	-	-	-	-	-
TMCLKL	HY/2012/07	2016-12-03	Mid-Ebb	SR4a	15:15	Middle	2	2						
TMCLKL	HY/2012/07	2016-12-03	Mid-Ebb	SR4a	15:15	Bottom	3	1	23.3	7.65	28.1	7.44	7.61	10.3
TMCLKL	HY/2012/07	2016-12-03	Mid-Ebb	SR4a	15:15	Bottom	3	2	23.2	7.68	28.2	7.46	7.63	10.3
TMCLKL	HY/2012/07	2016-12-03	Mid-Ebb	SR4	15:04	Surface	1	1	23.5	8.13	28.1	7.68	6.91	9.2
TMCLKL	HY/2012/07	2016-12-03	Mid-Ebb	SR4	15:04	Surface	1	2	23.4	8.15	28.2	7.7	6.93	9.2
TMCLKL	HY/2012/07	2016-12-03	Mid-Ebb	SR4	15:04	Middle	2	1	-	-	-	-	-	-
TMCLKL	HY/2012/07	2016-12-03	Mid-Ebb	SR4	15:04	Middle	2	2						
TMCLKL	HY/2012/07	2016-12-03	Mid-Ebb	SR4	15:04	Bottom	3	1	23.6	7.92	28.3	7.88	7.18	9.5
TMCLKL	HY/2012/07	2016-12-03	Mid-Ebb	SR4	15:04	Bottom	3	2	23.6	7.94	28.4	7.9	7.2	9.6
TMCLKL	HY/2012/07	2016-12-03	Mid-Ebb	IS8	14:43	Surface	1	1	23.4	7.74	28	7.74	7.13	9.5
TMCLKL	HY/2012/07	2016-12-03	Mid-Ebb	IS8	14:43	Surface	1	2	23.3	7.76	28.1	7.72	7.15	9.5
TMCLKL	HY/2012/07	2016-12-03	Mid-Ebb	IS8	14:43	Middle	2	1	-	-	-	-	-	-
TMCLKL	HY/2012/07	2016-12-03	Mid-Ebb	IS8	14:43	Middle	2	2						
TMCLKL	HY/2012/07	2016-12-03	Mid-Ebb	IS8	14:43	Bottom	3	1	23.5	8.12	28.2	8.04	7.3	9.9
TMCLKL	HY/2012/07	2016-12-03	Mid-Ebb	IS8	14:43	Bottom	3	2	23.5	8.14	28.3	8.06	7.33	9.9
TMCLKL	HY/2012/07	2016-12-03	Mid-Ebb	IS(Mf)16	14:22	Surface	1	1	23.6	8.13	27.9	7.84	7.06	9.4
TMCLKL	HY/2012/07	2016-12-03	Mid-Ebb	IS(Mf)16	14:22	Surface	1	2	23.5	8.11	28	7.86	7.08	9.4
TMCLKL	HY/2012/07	2016-12-03	Mid-Ebb	IS(Mf)16	14:22	Middle	2	1	23.4	7.94	28.1	7.94	7.13	9.5
TMCLKL	HY/2012/07	2016-12-03	Mid-Ebb	IS(Mf)16	14:22	Middle	2	2	23.5	7.96	28.2	7.96	7.15	9.5
TMCLKL	HY/2012/07	2016-12-03	Mid-Ebb	IS(Mf)16	14:22	Bottom	3	1	23.5	7.88	28.3	8.23	7.29	9.9
TMCLKL	HY/2012/07	2016-12-03	Mid-Ebb	IS(Mf)16	14:22	Bottom	3	2	23.6	7.86	28.4	8.25	7.31	9.8
TMCLKL	HY/2012/07	2016-12-03	Mid-Ebb	IS(Mf)9	14:02	Surface	1	1	23.5	7.947	28.1	7.64	7.74	10.4
TMCLKL	HY/2012/07	2016-12-03	Mid-Ebb	IS(Mf)9	14:02	Surface	1	2	23.4	7.96	28.2	7.66	7.76	10.5
TMCLKL	HY/2012/07	2016-12-03	Mid-Ebb	IS(Mf)9	14:02	Middle	2	1	-	-	-	_	-	-
TMCLKL	HY/2012/07	2016-12-03	Mid-Ebb	IS(Mf)9	14:02	Middle	2	2						

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v S	SS_v
<b>TMCLKL</b>	HY/2012/07	2016-12-03	Mid-Ebb	IS(Mf)9	14:02	Bottom	3	1	23.6	8.14	28.3	7.74	7.92	10.8
TMCLKL	HY/2012/07	2016-12-03	Mid-Ebb	IS(Mf)9	14:02	Bottom	3	2	23.6	8.17	28.4	7.76	7.95	10.9
TMCLKL	HY/2012/07	2016-12-03	Mid-Ebb	CS(Mf)3	13:40	Surface	1	1	23.4	8.14	28	7.74	7.42	10
TMCLKL	HY/2012/07	2016-12-03	Mid-Ebb	CS(Mf)3	13:40	Surface	1	2	23.4	8.16	28.1	7.76	7.39	10.2
TMCLKL	HY/2012/07	2016-12-03	Mid-Ebb	CS(Mf)3	13:40	Middle	2	1	23.3	7.92	28.2	7.83	7.55	10.2
TMCLKL	HY/2012/07	2016-12-03	Mid-Ebb	CS(Mf)3	13:40	Middle	2	2	23.2	7.94	28.3	7.81	7.57	10.2
TMCLKL	HY/2012/07	2016-12-03	Mid-Ebb	CS(Mf)3	13:40	Bottom	3	1	23.4	8.12	28.4	8.02	7.64	10.4
TMCLKL	HY/2012/07	2016-12-03	Mid-Ebb	CS(Mf)3	13:40	Bottom	3	2	23.5	8.14	28.5	8.04	7.66	10.5
TMCLKL	HY/2012/07	2016-12-06	Mid-Flood	CS(Mf)5	11:56	Surface	1	1	23.2	7.82	28	7.52	7.37	10.2
TMCLKL	HY/2012/07	2016-12-06	Mid-Flood	CS(Mf)5	11:56	Surface	1	2	23.3	7.86	28.1	7.47	7.3	10.1
TMCLKL	HY/2012/07	2016-12-06	Mid-Flood	CS(Mf)5	11:56	Middle	2	1	23.4	7.77	28.2	7.35	7.69	10.6
TMCLKL	HY/2012/07	2016-12-06	Mid-Flood	CS(Mf)5	11:56	Middle	2	2	23.3	7.81	28.3	7.39	7.6	10.5
TMCLKL	HY/2012/07	2016-12-06	Mid-Flood	CS(Mf)5	11:56	Bottom	3	1	23.4	7.9	28.4	7.26	7.41	10.4
TMCLKL	HY/2012/07	2016-12-06	Mid-Flood	CS(Mf)5	11:56	Bottom	3	2	23.5	7.93	28.3	7.23	7.5	10.5
TMCLKL	HY/2012/07	2016-12-06	Mid-Flood	SR4a	12:18	Surface	1	1	23.4	7.9	28	7.45	7.29	10.1
TMCLKL	HY/2012/07	2016-12-06	Mid-Flood	SR4a	12:18	Surface	1	2	23.3	7.85	28.1	7.41	7.21	9.9
TMCLKL	HY/2012/07	2016-12-06	Mid-Flood	SR4a	12:18	Middle	2	1						
TMCLKL	HY/2012/07	2016-12-06	Mid-Flood	SR4a	12:18	Middle	2	2						
TMCLKL	HY/2012/07	2016-12-06	Mid-Flood	SR4a	12:18	Bottom	3	1	23.4	7.79	28.1	7.49	7.43	10.3
TMCLKL	HY/2012/07	2016-12-06	Mid-Flood	SR4a	12:18	Bottom	3	2	23.5	7.83	28.2	7.53	7.39	10.3
TMCLKL	HY/2012/07	2016-12-06	Mid-Flood	SR4	12:40	Surface	1	1	23.3	7.93	27.9	7.24	7.2	9.9
TMCLKL	HY/2012/07	2016-12-06	Mid-Flood	SR4	12:40	Surface	1	2	23.2	7.88	28	7.18	7.24	10
TMCLKL	HY/2012/07	2016-12-06	Mid-Flood	SR4	12:40	Middle	2	1						
TMCLKL	HY/2012/07	2016-12-06	Mid-Flood	SR4	12:40	Middle	2	2						
TMCLKL	HY/2012/07	2016-12-06	Mid-Flood	SR4	12:40	Bottom	3	1	23.3	7.93	28.1	7.09	7.31	10.3
TMCLKL	HY/2012/07	2016-12-06	Mid-Flood	SR4	12:40	Bottom	3	2	23.4	7.89	28.2	7.05	7.4	10.5
TMCLKL	HY/2012/07	2016-12-06	Mid-Flood	IS8	13:02	Surface	1	1	23.3	7.91	28	7.6	7.25	10
TMCLKL	HY/2012/07	2016-12-06	Mid-Flood	IS8	13:02	Surface	1	2	23.4	7.95	28.1	7.65	7.32	10.1
TMCLKL	HY/2012/07	2016-12-06	Mid-Flood	IS8	13:02	Middle	2	1						
TMCLKL	HY/2012/07	2016-12-06	Mid-Flood	IS8	13:02	Middle	2	2						
TMCLKL	HY/2012/07	2016-12-06	Mid-Flood	IS8	13:02	Bottom	3	1	23.2	7.96	28.3	7.95	7.11	10.1
TMCLKL	HY/2012/07	2016-12-06	Mid-Flood	IS8	13:02	Bottom	3	2	23.3	7.92	28.2	7.9	7.17	10.2

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2016-12-06	Mid-Flood	IS(Mf)16	13:24	Surface	1	1	23.5	8.13	27.8	7.72	7.58	10.5
TMCLKL	HY/2012/07	2016-12-06	Mid-Flood	IS(Mf)16	13:24	Surface	1	2	23.4	8.1	27.9	7.7	7.49	10.3
TMCLKL	HY/2012/07	2016-12-06	Mid-Flood	IS(Mf)16	13:24	Middle	2	1	23.5	7.93	28.1	7.81	7.28	9.8
TMCLKL	HY/2012/07	2016-12-06	Mid-Flood	IS(Mf)16	13:24	Middle	2	2	23.6	7.96	28.2	7.85	7.21	9.8
TMCLKL	HY/2012/07	2016-12-06	Mid-Flood	IS(Mf)16	13:24	Bottom	3	1	23.6	7.85	28.4	8.13	7.57	10.4
TMCLKL	HY/2012/07	2016-12-06	Mid-Flood	IS(Mf)16	13:24	Bottom	3	2	23.5	7.87	28.3	8.17	7.62	10.4
TMCLKL	HY/2012/07	2016-12-06	Mid-Flood	IS(Mf)9	13:46	Surface	1	1	23.3	7.94	28.2	7.64	7.8	10.4
TMCLKL	HY/2012/07	2016-12-06	Mid-Flood	IS(Mf)9	13:46	Surface	1	2	23.4	7.9	28.1	7.61	7.85	10.4
TMCLKL	HY/2012/07	2016-12-06	Mid-Flood	IS(Mf)9	13:46	Middle	2	1						
TMCLKL	HY/2012/07	2016-12-06	Mid-Flood	IS(Mf)9	13:46	Middle	2	2						
TMCLKL	HY/2012/07	2016-12-06	Mid-Flood	IS(Mf)9	13:46	Bottom	3	1	23.5	8.13	28.3	7.66	7.61	10.3
TMCLKL	HY/2012/07	2016-12-06	Mid-Flood	IS(Mf)9	13:46	Bottom	3	2	23.6	8.1	28.4	7.69	7.57	10.3
TMCLKL	HY/2012/07	2016-12-06	Mid-Flood	CS(Mf)3	14:10	Surface	1	1	23.3	8.13	28.1	7.65	7.75	10.3
TMCLKL	HY/2012/07	2016-12-06	Mid-Flood	CS(Mf)3	14:10	Surface	1	2	23.4	8.1	28	7.67	7.67	10.2
TMCLKL	HY/2012/07	2016-12-06	Mid-Flood	CS(Mf)3	14:10	Middle	2	1	23.5	7.95	28.1	7.74	7.64	10.2
TMCLKL	HY/2012/07	2016-12-06	Mid-Flood	CS(Mf)3	14:10	Middle	2	2	23.4	7.98	28.2	7.78	7.6	10.3
TMCLKL	HY/2012/07	2016-12-06	Mid-Flood	CS(Mf)3	14:10	Bottom	3	1	23.5	8.14	28.3	8	7.49	10.4
TMCLKL	HY/2012/07	2016-12-06	Mid-Flood	CS(Mf)3	14:10	Bottom	3	2	23.4	8.18	28.4	8.03	7.53	10.4
TMCLKL	HY/2012/07	2016-12-06	Mid-Ebb	CS(Mf)5	17:53	Surface	1	1	23.5	7.85	28.5	7.47	7.22	9.8
TMCLKL	HY/2012/07	2016-12-06	Mid-Ebb	CS(Mf)5	17:53	Surface	1	2	23.4	7.82	28.6	7.49	7.26	9.9
TMCLKL	HY/2012/07	2016-12-06	Mid-Ebb	CS(Mf)5	17:53	Middle	2	1	23.2	7.83	28.5	7.46	7.38	10
TMCLKL	HY/2012/07	2016-12-06	Mid-Ebb	CS(Mf)5	17:53	Middle	2	2	23.2	7.84	28.5	7.48	7.43	10.1
TMCLKL	HY/2012/07	2016-12-06	Mid-Ebb	CS(Mf)5	17:53	Bottom	3	1	23.2	7.82	28.5	7.37	7.52	10.4
TMCLKL	HY/2012/07	2016-12-06	Mid-Ebb	CS(Mf)5	17:53	Bottom	3	2	23	7.83	28.5	7.39	7.55	10.4
TMCLKL	HY/2012/07	2016-12-06	Mid-Ebb	SR4a	17:40	Surface	1	1	23.1	7.82	28.6	7.44	7.37	9.8
TMCLKL	HY/2012/07	2016-12-06	Mid-Ebb	SR4a	17:40	Surface	1	2	23.2	7.83	28.5	7.48	7.32	9.7
TMCLKL	HY/2012/07	2016-12-06	Mid-Ebb	SR4a	17:40	Middle	2	1						
TMCLKL	HY/2012/07	2016-12-06	Mid-Ebb	SR4a	17:40	Middle	2	2						
TMCLKL	HY/2012/07	2016-12-06	Mid-Ebb	SR4a	17:40	Bottom	3	1	23	7.83	28.5	7.42	7.67	10.4
TMCLKL	HY/2012/07	2016-12-06	Mid-Ebb	SR4a	17:40	Bottom	3	2	23.1	7.83	28.5	7.38	7.62	10.3
TMCLKL	HY/2012/07	2016-12-06	Mid-Ebb	SR4	17:29	Surface	1	1	23.7	7.92	28.4	7.3	7.28	9.7
TMCLKL	HY/2012/07	2016-12-06	Mid-Ebb	SR4	17:29	Surface	1	2	23.6	7.94	28.3	7.27	7.25	9.6
TMCLKL	HY/2012/07	2016-12-06	Mid-Ebb	SR4	17:29	Middle	2	1						

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2016-12-06	Mid-Ebb	SR4	17:29	Middle	2	2						
TMCLKL	HY/2012/07	2016-12-06	Mid-Ebb	SR4	17:29	Bottom	3	1	23.5	7.91	28.3	7.14	7.44	9.9
TMCLKL	HY/2012/07	2016-12-06	Mid-Ebb	SR4	17:29	Bottom	3	2	23.2	7.92	28.3	7.17	7.43	9.9
TMCLKL	HY/2012/07	2016-12-06	Mid-Ebb	IS8	17:18	Surface	1	1	23.4	7.91	28.3	7.56	7.36	9.8
TMCLKL	HY/2012/07	2016-12-06	Mid-Ebb	IS8	17:18	Surface	1	2	23.5	7.94	28.4	7.59	7.39	9.8
TMCLKL	HY/2012/07	2016-12-06	Mid-Ebb	IS8	17:18	Middle	2	1						
TMCLKL	HY/2012/07	2016-12-06	Mid-Ebb	IS8	17:18	Middle	2	2						
TMCLKL	HY/2012/07	2016-12-06	Mid-Ebb	IS8	17:18	Bottom	3	1	23.3	7.92	28.4	7.42	7.5	10.1
TMCLKL	HY/2012/07	2016-12-06	Mid-Ebb	IS8	17:18	Bottom	3	2	23.3	7.92	28.4	7.39	7.55	10.2
TMCLKL	HY/2012/07	2016-12-06	Mid-Ebb	IS(Mf)16	17:04	Surface	1	1	23.5	7.93	28.4	7.68	7.36	9.8
TMCLKL	HY/2012/07	2016-12-06	Mid-Ebb	IS(Mf)16	17:04	Surface	1	2	23.4	7.94	28.3	7.62	7.42	9.9
TMCLKL	HY/2012/07	2016-12-06	Mid-Ebb	IS(Mf)16	17:04	Middle	2	1	23.5	7.92	28.4	7.63	7.39	9.8
TMCLKL	HY/2012/07	2016-12-06	Mid-Ebb	IS(Mf)16	17:04	Middle	2	2	23.3	7.93	28.4	7.6	7.43	9.9
TMCLKL	HY/2012/07	2016-12-06	Mid-Ebb	IS(Mf)16	17:04	Bottom	3	1	23.2	7.92	28.4	7.56	7.52	10.2
TMCLKL	HY/2012/07	2016-12-06	Mid-Ebb	IS(Mf)16	17:04	Bottom	3	2	23.2	7.93	28.3	7.53	7.56	10.1
TMCLKL	HY/2012/07	2016-12-06	Mid-Ebb	IS(Mf)9	16:53	Surface	1	1	23.5	7.87	28.6	7.67	7.76	10.5
TMCLKL	HY/2012/07	2016-12-06	Mid-Ebb	IS(Mf)9	16:53	Surface	1	2	23.6	7.92	28.7	7.69	7.79	10.5
TMCLKL	HY/2012/07	2016-12-06	Mid-Ebb	IS(Mf)9	16:53	Middle	2	1						
TMCLKL	HY/2012/07	2016-12-06	Mid-Ebb	IS(Mf)9	16:53	Middle	2	2						
TMCLKL	HY/2012/07	2016-12-06	Mid-Ebb	IS(Mf)9	16:53	Bottom	3	1	23.2	7.94	28.5	7.56	7.68	10.4
TMCLKL	HY/2012/07	2016-12-06	Mid-Ebb	IS(Mf)9	16:53	Bottom	3	2	23.5	7.97	28.2	7.5	7.72	10.6
TMCLKL	HY/2012/07	2016-12-06	Mid-Ebb	CS(Mf)3	16:35	Surface	1	1	23.6	7.86	28.3	7.62	7.79	10.5
TMCLKL	HY/2012/07	2016-12-06	Mid-Ebb	CS(Mf)3	16:35	Surface	1	2	23.5	7.89	28.4	7.63	7.81	10.5
TMCLKL	HY/2012/07	2016-12-06	Mid-Ebb	CS(Mf)3	16:35	Middle	2	1	23.3	7.93	28.3	7.56	7.74	10.4
TMCLKL	HY/2012/07	2016-12-06	Mid-Ebb	CS(Mf)3	16:35	Middle	2	2	23.3	7.97	28.2	7.59	7.76	10.5
TMCLKL	HY/2012/07	2016-12-06	Mid-Ebb	CS(Mf)3	16:35	Bottom	3	1	23.2	7.91	28.4	7.48	7.56	10.3
TMCLKL	HY/2012/07	2016-12-06	Mid-Ebb	CS(Mf)3	16:35	Bottom	3	2	23.2	7.94	28.4	7.52	7.59	10.4
TMCLKL	HY/2012/07	2016-12-08	Mid-Flood	CS(Mf)5	13:45	Surface	1	1	24.3	7.88	28.2	7.58	7.28	10
TMCLKL	HY/2012/07	2016-12-08	Mid-Flood	CS(Mf)5	13:45	Surface	1	2	24.2	7.92	28.3	7.53	7.36	10.2
TMCLKL	HY/2012/07	2016-12-08	Mid-Flood	CS(Mf)5	13:45	Middle	2	1	24.4	7.83	28.5	7.41	7.75	10.7
TMCLKL	HY/2012/07	2016-12-08	Mid-Flood	CS(Mf)5	13:45	Middle	2	2	24.5	7.87	28.4	7.45	7.66	10.6
TMCLKL	HY/2012/07	2016-12-08	Mid-Flood	CS(Mf)5	13:45	Bottom	3	1	24.5	7.96	28.7	7.32	7.47	10.5
TMCLKL	HY/2012/07	2016-12-08	Mid-Flood	CS(Mf)5	13:45	Bottom	3	2	24.6	7.99	28.8	7.29	7.56	10.6

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2016-12-08	Mid-Flood	SR4a	14:07	Surface	1	1	24.4	7.96	28.4	7.51	7.2	9.9
TMCLKL	HY/2012/07	2016-12-08	Mid-Flood	SR4a	14:07	Surface	1	2	24.5	7.91	28.5	7.47	7.12	9.8
TMCLKL	HY/2012/07	2016-12-08	Mid-Flood	SR4a	14:07	Middle	2	1						
TMCLKL	HY/2012/07	2016-12-08	Mid-Flood	SR4a	14:07	Middle	2	2						
TMCLKL	HY/2012/07	2016-12-08	Mid-Flood	SR4a	14:07	Bottom	3	1	24.5	7.85	28.6	7.55	7.34	10.2
TMCLKL	HY/2012/07	2016-12-08	Mid-Flood	SR4a	14:07	Bottom	3	2	24.6	7.89	28.5	7.59	7.3	10.2
TMCLKL	HY/2012/07	2016-12-08	Mid-Flood	SR4	14:29	Surface	1	1	24.5	7.99	28.5	7.3	7.11	9.8
TMCLKL	HY/2012/07	2016-12-08	Mid-Flood	SR4	14:29	Surface	1	2	24.6	7.94	28.6	7.24	7.15	9.9
TMCLKL	HY/2012/07	2016-12-08	Mid-Flood	SR4	14:29	Middle	2	1						
TMCLKL	HY/2012/07	2016-12-08	Mid-Flood	SR4	14:29	Middle	2	2						
TMCLKL	HY/2012/07	2016-12-08	Mid-Flood	SR4	14:29	Bottom	3	1	24.7	7.99	28.8	7.15	7.22	10.2
TMCLKL	HY/2012/07	2016-12-08	Mid-Flood	SR4	14:29	Bottom	3	2	24.6	7.95	28.7	7.11	7.31	10.4
TMCLKL	HY/2012/07	2016-12-08	Mid-Flood	IS8	14:51	Surface	1	1	24.6	7.97	28.6	7.66	7.16	9.9
TMCLKL	HY/2012/07	2016-12-08	Mid-Flood	IS8	14:51	Surface	1	2	24.7	8.01	28.7	7.71	7.23	10
TMCLKL	HY/2012/07	2016-12-08	Mid-Flood	IS8	14:51	Middle	2	1						
TMCLKL	HY/2012/07	2016-12-08	Mid-Flood	IS8	14:51	Middle	2	2						
TMCLKL	HY/2012/07	2016-12-08	Mid-Flood	IS8	14:51	Bottom	3	1	24.7	8.02	28.7	8.01	7.02	10
TMCLKL	HY/2012/07	2016-12-08	Mid-Flood	IS8	14:51	Bottom	3	2	24.8	7.98	28.8	7.96	7.08	10.1
TMCLKL	HY/2012/07	2016-12-08	Mid-Flood	IS(Mf)16	15:13	Surface	1	1	24.5	8.19	28.4	7.78	7.49	10.3
TMCLKL	HY/2012/07	2016-12-08	Mid-Flood	IS(Mf)16	15:13	Surface	1	2	24.4	8.16	28.5	7.76	7.4	10.2
TMCLKL	HY/2012/07	2016-12-08	Mid-Flood	IS(Mf)16	15:13	Middle	2	1	24.6	7.99	28.6	7.87	7.19	9.7
TMCLKL	HY/2012/07	2016-12-08	Mid-Flood	IS(Mf)16	15:13	Middle	2	2	24.7	8.02	28.5	7.91	7.12	9.7
TMCLKL	HY/2012/07	2016-12-08	Mid-Flood	IS(Mf)16	15:13	Bottom	3	1	24.8	7.91	28.6	8.19	7.48	10.2
TMCLKL	HY/2012/07	2016-12-08	Mid-Flood	IS(Mf)16	15:13	Bottom	3	2	24.9	7.93	28.7	8.23	7.53	10.3
TMCLKL	HY/2012/07	2016-12-08	Mid-Flood	IS(Mf)9	15:35	Surface	1	1	24.5	8	28.5	7.7	7.71	10.3
TMCLKL	HY/2012/07	2016-12-08	Mid-Flood	IS(Mf)9	15:35	Surface	1	2	24.5	7.96	28.6	7.67	7.76	10.3
TMCLKL	HY/2012/07	2016-12-08	Mid-Flood	IS(Mf)9	15:35	Middle	2	1						
TMCLKL	HY/2012/07	2016-12-08	Mid-Flood	IS(Mf)9	15:35	Middle	2	2						
TMCLKL	HY/2012/07	2016-12-08	Mid-Flood	IS(Mf)9	15:35	Bottom	3	1	24.6	8.19	28.8	7.72	7.52	10.2
TMCLKL	HY/2012/07	2016-12-08	Mid-Flood	IS(Mf)9	15:35	Bottom	3	2	24.7	8.16	28.7	7.75	7.48	10.2
TMCLKL	HY/2012/07	2016-12-08	Mid-Flood	CS(Mf)3	15:59	Surface	1	1	24.5	8.19	28.4	7.61	7.66	10.2
TMCLKL	HY/2012/07	2016-12-08	Mid-Flood	CS(Mf)3	15:59	Surface	1	2	24.6	8.16	28.5	7.73	7.58	10.1
TMCLKL	HY/2012/07	2016-12-08	Mid-Flood	CS(Mf)3	15:59	Middle	2	1	24.6	8.01	28.6	7.8	7.55	10.1

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2016-12-08	Mid-Flood	CS(Mf)3	15:59	Middle	2	2	24.7	8.04	28.7	7.84	7.51	10.1
TMCLKL	HY/2012/07	2016-12-08	Mid-Flood	CS(Mf)3	15:59	Bottom	3	1	24.8	8.2	28.8	8.06	7.4	10.3
TMCLKL	HY/2012/07	2016-12-08	Mid-Flood	CS(Mf)3	15:59	Bottom	3	2	24.7	8.24	28.9	8.09	7.44	10.3
TMCLKL	HY/2012/07	2016-12-08	Mid-Ebb	CS(Mf)5	20:43	Surface	1	1	24.2	7.89	28.1	7.43	7.36	10
TMCLKL	HY/2012/07	2016-12-08	Mid-Ebb	CS(Mf)5	20:43	Surface	1	2	24.1	7.84	28	7.4	7.41	10.1
TMCLKL	HY/2012/07	2016-12-08	Mid-Ebb	CS(Mf)5	20:43	Middle	2	1	24.3	7.92	28.2	7.39	7.52	10.2
TMCLKL	HY/2012/07	2016-12-08	Mid-Ebb	CS(Mf)5	20:43	Middle	2	2	24.2	7.91	28.2	7.36	7.58	10.3
TMCLKL	HY/2012/07	2016-12-08	Mid-Ebb	CS(Mf)5	20:43	Bottom	3	1	24.4	7.83	28.4	7.3	7.67	10.6
TMCLKL	HY/2012/07	2016-12-08	Mid-Ebb	CS(Mf)5	20:43	Bottom	3	2	24.4	7.8	28.5	7.34	7.62	10.5
TMCLKL	HY/2012/07	2016-12-08	Mid-Ebb	SR4a	20:24	Surface	1	1	24.3	7.92	28.2	7.23	7.48	9.9
TMCLKL	HY/2012/07	2016-12-08	Mid-Ebb	SR4a	20:24	Surface	1	2	24.2	7.94	28.1	7.26	7.41	9.9
TMCLKL	HY/2012/07	2016-12-08	Mid-Ebb	SR4a	20:24	Middle	2	1						
TMCLKL	HY/2012/07	2016-12-08	Mid-Ebb	SR4a	20:24	Middle	2	2						
TMCLKL	HY/2012/07	2016-12-08	Mid-Ebb	SR4a	20:24	Bottom	3	1	24.3	7.87	28.2	7.38	7.52	10.2
TMCLKL	HY/2012/07	2016-12-08	Mid-Ebb	SR4a	20:24	Bottom	3	2	24.3	7.85	28.3	7.36	7.59	10.2
TMCLKL	HY/2012/07	2016-12-08	Mid-Ebb	SR4	20:10	Surface	1	1	24.3	7.86	28.3	7.35	7.39	9.8
TMCLKL	HY/2012/07	2016-12-08	Mid-Ebb	SR4	20:10	Surface	1	2	24.4	7.81	28.3	7.31	7.46	9.9
TMCLKL	HY/2012/07	2016-12-08	Mid-Ebb	SR4	20:10	Middle	2	1						
TMCLKL	HY/2012/07	2016-12-08	Mid-Ebb	SR4	20:10	Middle	2	2						
TMCLKL	HY/2012/07	2016-12-08	Mid-Ebb	SR4	20:10	Bottom	3	1	24.3	7.88	28.4	7.24	7.58	10.1
TMCLKL	HY/2012/07	2016-12-08	Mid-Ebb	SR4	20:10	Bottom	3	2	24.2	7.85	28.3	7.21	7.54	10
TMCLKL	HY/2012/07	2016-12-08	Mid-Ebb	IS8	19:58	Surface	1	1	24.3	7.92	28.3	7.48	7.25	9.6
TMCLKL	HY/2012/07	2016-12-08	Mid-Ebb	IS8	19:58	Surface	1	2	24.2	7.96	28.2	7.51	7.31	9.7
TMCLKL	HY/2012/07	2016-12-08	Mid-Ebb	IS8	19:58	Middle	2	1						
TMCLKL	HY/2012/07	2016-12-08	Mid-Ebb	IS8	19:58	Middle	2	2						
TMCLKL	HY/2012/07	2016-12-08	Mid-Ebb	IS8	19:58	Bottom	3	1	24.5	7.99	28.4	7.71	7.47	10.1
TMCLKL	HY/2012/07	2016-12-08	Mid-Ebb	IS8	19:58	Bottom	3	2	24.4	7.97	28.5	7.67	7.4	10
TMCLKL	HY/2012/07	2016-12-08	Mid-Ebb	IS(Mf)16	19:40	Surface	1	1	24.2	7.96	28.3	7.59	7.28	9.7
TMCLKL	HY/2012/07	2016-12-08	Mid-Ebb	IS(Mf)16	19:40	Surface	1	2	24.1	7.98	28.4	7.56	7.37	9.8
TMCLKL	HY/2012/07	2016-12-08	Mid-Ebb	IS(Mf)16	19:40	Middle	2	1	24.4	8.07	28.6	7.63	7.56	10.1
TMCLKL	HY/2012/07	2016-12-08	Mid-Ebb	IS(Mf)16	19:40	Middle	2	2	24.3	8.01	28.5	7.66	7.62	10.1
TMCLKL	HY/2012/07	2016-12-08	Mid-Ebb	IS(Mf)16	19:40	Bottom	3	1	24.5	7.96	28.7	7.84	7.48	10.2
TMCLKL	HY/2012/07	2016-12-08	Mid-Ebb	IS(Mf)16	19:40	Bottom	3	2	24.4	7.92	28.7	7.8	7.42	9.9

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2016-12-08	Mid-Ebb	IS(Mf)9	19:28	Surface	1	1	24.3	7.91	28.4	7.46	7.89	10.7
TMCLKL	HY/2012/07	2016-12-08	Mid-Ebb	IS(Mf)9	19:28	Surface	1	2	24.2	7.93	28.3	7.5	7.82	10.6
TMCLKL	HY/2012/07	2016-12-08	Mid-Ebb	IS(Mf)9	19:28	Middle	2	1						
TMCLKL	HY/2012/07	2016-12-08	Mid-Ebb	IS(Mf)9	19:28	Middle	2	2						
TMCLKL	HY/2012/07	2016-12-08	Mid-Ebb	IS(Mf)9	19:28	Bottom	3	1	24.3	7.87	28.5	7.32	7.74	10.5
TMCLKL	HY/2012/07	2016-12-08	Mid-Ebb	IS(Mf)9	19:28	Bottom	3	2	24.4	7.84	28.6	7.35	7.67	10.5
TMCLKL	HY/2012/07	2016-12-08	Mid-Ebb	CS(Mf)3	19:08	Surface	1	1	24.3	7.97	28.2	7.34	7.79	10.5
TMCLKL	HY/2012/07	2016-12-08	Mid-Ebb	CS(Mf)3	19:08	Surface	1	2	24.2	7.92	28.3	7.38	7.74	10.4
TMCLKL	HY/2012/07	2016-12-08	Mid-Ebb	CS(Mf)3	19:08	Middle	2	. 1	24.4	7.84	28.4	7.42	8.03	10.8
TMCLKL	HY/2012/07	2016-12-08	Mid-Ebb	CS(Mf)3	19:08	Middle	2	2	24.5	7.91	28.3	7.44	8.07	10.9
TMCLKL	HY/2012/07	2016-12-08	Mid-Ebb	CS(Mf)3	19:08	Bottom	3	1	24.5	7.82	28.7	7.61	7.86	10.7
TMCLKL	HY/2012/07	2016-12-08	Mid-Ebb	CS(Mf)3	19:08	Bottom	3	2	24.4	7.84	28.6	7.64	7.91	10.8
TMCLKL	HY/2012/07	2016-12-10	Mid-Flood	CS(Mf)5	14:20	Surface	1	1	24.7	7.66	28.4	7.24	7.62	10.5
TMCLKL	HY/2012/07	2016-12-10	Mid-Flood	CS(Mf)5	14:20	Surface	1	2	24.8	7.69	28.4	7.21	7.55	10.4
TMCLKL	HY/2012/07	2016-12-10	Mid-Flood	CS(Mf)5	14:20	Middle	2	1	24.7	7.7	28.5	7.16	7.94	11
TMCLKL	HY/2012/07	2016-12-10	Mid-Flood	CS(Mf)5	14:20	Middle	2	2	24.7	7.76	28.5	7.13	7.89	10.9
TMCLKL	HY/2012/07	2016-12-10	Mid-Flood	CS(Mf)5	14:20	Bottom	3	1	24.6	7.77	28.7	7.05	7.72	10.8
TMCLKL	HY/2012/07	2016-12-10	Mid-Flood	CS(Mf)5	14:20	Bottom	3	2	24.5	7.69	28.7	7.05	7.67	10.7
TMCLKL	HY/2012/07	2016-12-10	Mid-Flood	SR4a	14:30	Surface	1	1	24.7	7.8	28.4	7.3	7.49	10.3
TMCLKL	HY/2012/07	2016-12-10	Mid-Flood	SR4a	14:30	Surface	1	2	24.7	7.76	28.5	7.26	7.56	10.4
TMCLKL	HY/2012/07	2016-12-10	Mid-Flood	SR4a	14:30	Middle	2	1						
TMCLKL	HY/2012/07	2016-12-10	Mid-Flood	SR4a	14:30	Middle	2	2						
TMCLKL	HY/2012/07	2016-12-10	Mid-Flood	SR4a	14:30	Bottom	3	1	24.6	7.65	28.5	7.18	7.67	10.7
TMCLKL	HY/2012/07	2016-12-10	Mid-Flood	SR4a	14:30	Bottom	3	2	24.6	7.69	28.5	7.15	7.75	10.9
TMCLKL	HY/2012/07	2016-12-10	Mid-Flood	SR4	14:44	Surface	1	1	24.7	7.83	28.4	7.18	7.34	10.1
TMCLKL	HY/2012/07	2016-12-10	Mid-Flood	SR4	14:44	Surface	1	2	24.7	7.79	28.4	7.14	7.42	10.2
TMCLKL	HY/2012/07	2016-12-10	Mid-Flood	SR4	14:44	Middle	2	. 1						
TMCLKL	HY/2012/07	2016-12-10	Mid-Flood	SR4	14:44	Middle	2	2						
TMCLKL	HY/2012/07	2016-12-10	Mid-Flood	SR4	14:44	Bottom	3	1	24.6	7.86	28.5	7.03	7.6	10.7
TMCLKL	HY/2012/07	2016-12-10	Mid-Flood	SR4	14:44	Bottom	3	2	24.6	7.81	28.5	7	7.53	10.7
TMCLKL	HY/2012/07	2016-12-10	Mid-Flood	IS8	14:59	Surface	1	1	24.7	7.79	28.4	7.36	7.58	10.5
TMCLKL	HY/2012/07	2016-12-10	Mid-Flood	IS8	14:59	Surface	1	2	24.8	7.73	28.5	7.32	7.5	10.4
TMCLKL	HY/2012/07	2016-12-10	Mid-Flood	IS8	14:59	Middle	2	1						

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2016-12-10	Mid-Flood	IS8	14:59	Middle	2	2						
TMCLKL	HY/2012/07	2016-12-10	Mid-Flood	IS8	14:59	Bottom	3	1	24.7	7.78	28.5	7.5	7.68	10.9
TMCLKL	HY/2012/07	2016-12-10	Mid-Flood	IS8	14:59	Bottom	3	2	24.7	7.82	28.6	7.57	7.74	11
TMCLKL	HY/2012/07	2016-12-10	Mid-Flood	IS(Mf)16	15:14	Surface	1	1	24.8	7.94	28.3	7.4	7.67	10.6
TMCLKL	HY/2012/07	2016-12-10	Mid-Flood	IS(Mf)16	15:14	Surface	1	2	24.8	7.99	28.3	7.36	7.6	10.5
TMCLKL	HY/2012/07	2016-12-10	Mid-Flood	IS(Mf)16	15:14	Middle	2	1	24.7	7.89	28.4	7.43	7.73	10.4
TMCLKL	HY/2012/07	2016-12-10	Mid-Flood	IS(Mf)16	15:14	Middle	2	2	24.7	7.86	28.4	7.46	7.68	10.4
TMCLKL	HY/2012/07	2016-12-10	Mid-Flood	IS(Mf)16	15:14	Bottom	3	1	24.7	7.74	28.7	7.63	7.8	10.7
TMCLKL	HY/2012/07	2016-12-10	Mid-Flood	IS(Mf)16	15:14	Bottom	3	2	24.7	7.76	28.7	7.6	7.73	10.6
TMCLKL	HY/2012/07	2016-12-10	Mid-Flood	IS(Mf)9	15:31	Surface	1	1	24.7	7.83	28.4	7.37	7.49	10
TMCLKL	HY/2012/07	2016-12-10	Mid-Flood	IS(Mf)9	15:31	Surface	1	2	24.6	7.88	28.5	7.42	7.56	10.1
TMCLKL	HY/2012/07	2016-12-10	Mid-Flood	IS(Mf)9	15:31	Middle	2	1						
TMCLKL	HY/2012/07	2016-12-10	Mid-Flood	IS(Mf)9	15:31	Middle	2	2						
TMCLKL	HY/2012/07	2016-12-10	Mid-Flood	IS(Mf)9	15:31	Bottom	3	1	24.7	7.88	28.6	7.28	7.8	10.6
TMCLKL	HY/2012/07	2016-12-10	Mid-Flood	IS(Mf)9	15:31	Bottom	3	2	24.7	7.93	28.6	7.25	7.74	10.5
TMCLKL	HY/2012/07	2016-12-10	Mid-Flood	CS(Mf)3	15:48	Surface	1	1	24.8	7.89	28.4	7.25	7.38	9.8
TMCLKL	HY/2012/07	2016-12-10	Mid-Flood	CS(Mf)3	15:48	Surface	1	2	24.8	7.93	28.4	7.28	7.44	9.9
TMCLKL	HY/2012/07	2016-12-10	Mid-Flood	CS(Mf)3	15:48	Middle	2	1	24.7	7.8	28.5	7.4	7.53	10.1
TMCLKL	HY/2012/07	2016-12-10	Mid-Flood	CS(Mf)3	15:48	Middle	2	2	24.7	7.84	28.6	7.36	7.61	10.3
TMCLKL	HY/2012/07	2016-12-10	Mid-Flood	CS(Mf)3	15:48	Bottom	3	1	24.7	7.99	28.8	7.61	7.3	10.1
TMCLKL	HY/2012/07	2016-12-10	Mid-Flood	CS(Mf)3	15:48	Bottom	3	2	24.6	8.02	28.8	7.66	7.26	10
TMCLKL	HY/2012/07	2016-12-10	Mid-Ebb	CS(Mf)5	10:47	Surface	1	1	24.4	7.79	28.3	7.49	7.34	10
TMCLKL	HY/2012/07	2016-12-10	Mid-Ebb	CS(Mf)5	10:47	Surface	1	2	24.5	7.83	28.2	7.44	7.42	10.1
TMCLKL	HY/2012/07	2016-12-10	Mid-Ebb	CS(Mf)5	10:47	Middle	2	1	24.6	7.74	28.3	7.32	7.81	10.6
TMCLKL	HY/2012/07	2016-12-10	Mid-Ebb	CS(Mf)5	10:47	Middle	2	2	24.5	7.78	28.4	7.36	7.72	10.5
TMCLKL	HY/2012/07	2016-12-10	Mid-Ebb	CS(Mf)5	10:47	Bottom	3	1	24.6	7.87	28.5	7.23	7.53	10.4
TMCLKL	HY/2012/07	2016-12-10	Mid-Ebb	CS(Mf)5	10:47	Bottom	3	2	24.6	7.9	28.6	7.2	7.62	10.5
TMCLKL	HY/2012/07	2016-12-10	Mid-Ebb	SR4a	10:23	Surface	1	1	24.4	7.87	28.3	7.42	7.26	9.7
TMCLKL	HY/2012/07	2016-12-10	Mid-Ebb	SR4a	10:23	Surface	1	2	24.3	7.82	28.4	7.38	7.18	9.5
TMCLKL	HY/2012/07	2016-12-10	Mid-Ebb	SR4a	10:23	Middle	2	1						
TMCLKL	HY/2012/07	2016-12-10	Mid-Ebb	SR4a	10:23	Middle	2	2						
TMCLKL	HY/2012/07	2016-12-10	Mid-Ebb	SR4a	10:23	Bottom	3	1	24.5	7.76	28.4	7.46	7.4	10
TMCLKL	HY/2012/07	2016-12-10	Mid-Ebb	SR4a	10:23	Bottom	3	2	24.4	7.8	28.5	7.5	7.36	9.9

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2016-12-10	Mid-Ebb	SR4	10:01	Surface	1	1	24.4	7.9	28.2	7.21	7.17	9.5
TMCLKL	HY/2012/07	2016-12-10	Mid-Ebb	SR4	10:01	Surface	1	. 2	24.5	7.85	28.3	7.15	7.21	9.6
TMCLKL	HY/2012/07	2016-12-10	Mid-Ebb	SR4	10:01	Middle	2	1						
TMCLKL	HY/2012/07	2016-12-10	Mid-Ebb	SR4	10:01	Middle	2	2						
TMCLKL	HY/2012/07	2016-12-10	Mid-Ebb	SR4	10:01	Bottom	3	1	24.5	7.92	28.4	7.06	7.28	9.7
TMCLKL	HY/2012/07	2016-12-10	Mid-Ebb	SR4	10:01	Bottom	3	2	24.6	7.88	28.5	7.02	7.37	9.8
TMCLKL	HY/2012/07	2016-12-10	Mid-Ebb	IS8	09:39	Surface	1	1	24.3	7.88	28.1	7.57	7.22	9.6
TMCLKL	HY/2012/07	2016-12-10	Mid-Ebb	IS8	09:39	Surface	1	. 2	24.4	7.92	28.2	7.62	7.29	9.7
TMCLKL	HY/2012/07	2016-12-10	Mid-Ebb	IS8	09:39	Middle	2	1						
TMCLKL	HY/2012/07	2016-12-10	Mid-Ebb	IS8	09:39	Middle	2	2						
TMCLKL	HY/2012/07	2016-12-10	Mid-Ebb	IS8	09:39	Bottom	3	1	24.4	7.93	28.3	7.92	7.08	9.6
TMCLKL	HY/2012/07	2016-12-10	Mid-Ebb	IS8	09:39	Bottom	3	2	24.5	7.89	28.2	7.87	7.14	9.6
TMCLKL	HY/2012/07	2016-12-10	Mid-Ebb	IS(Mf)16	09:17	Surface	1	1	24.3	8.1	28.1	7.69	7.55	10
TMCLKL	HY/2012/07	2016-12-10	Mid-Ebb	IS(Mf)16	09:17	Surface	1	. 2	24.2	8.07	28	7.67	7.46	9.9
TMCLKL	HY/2012/07	2016-12-10	Mid-Ebb	IS(Mf)16	09:17	Middle	2	1	24.3	7.9	28.2	7.78	7.25	9.6
TMCLKL	HY/2012/07	2016-12-10	Mid-Ebb	IS(Mf)16	09:17	Middle	2	2	24.4	7.93	28.3	7.82	7.18	9.5
TMCLKL	HY/2012/07	2016-12-10	Mid-Ebb	IS(Mf)16	09:17	Bottom	3	1	24.4	7.82	28.4	8.1	7.54	10.3
TMCLKL	HY/2012/07	2016-12-10	Mid-Ebb	IS(Mf)16	09:17	Bottom	3	2	24.5	7.84	28.3	8.14	7.59	10.2
TMCLKL	HY/2012/07	2016-12-10	Mid-Ebb	IS(Mf)9	08:55	Surface	1	1	24.2	7.91	28.3	7.61	7.77	10.5
TMCLKL	HY/2012/07	2016-12-10	Mid-Ebb	IS(Mf)9	08:55	Surface	1	. 2	24.1	7.87	28.4	7.58	7.82	10.6
TMCLKL	HY/2012/07	2016-12-10	Mid-Ebb	IS(Mf)9	08:55	Middle	2	1						
TMCLKL	HY/2012/07	2016-12-10	Mid-Ebb	IS(Mf)9	08:55	Middle	2	2						
TMCLKL	HY/2012/07	2016-12-10	Mid-Ebb	IS(Mf)9	08:55	Bottom	3	1	24.2	8.1	28.5	7.63	7.58	10.3
TMCLKL	HY/2012/07	2016-12-10	Mid-Ebb	IS(Mf)9	08:55	Bottom	3	2	24.3	8.07	28.4	7.66	7.54	10.3
TMCLKL	HY/2012/07	2016-12-10	Mid-Ebb	CS(Mf)3	08:33	Surface	1	1	24	8.1	28.2	7.52	7.72	10.4
TMCLKL	HY/2012/07	2016-12-10	Mid-Ebb	CS(Mf)3	08:33	Surface	1	. 2	24.1	8.07	28.3	7.64	7.64	10.3
TMCLKL	HY/2012/07	2016-12-10	Mid-Ebb	CS(Mf)3	08:33	Middle	2	1	24.2	7.92	28.4	7.71	7.61	10.3
TMCLKL	HY/2012/07	2016-12-10	Mid-Ebb	CS(Mf)3	08:33	Middle	2	2	24.3	7.95	28.3	7.75	7.57	10.2
TMCLKL	HY/2012/07	2016-12-10	Mid-Ebb	CS(Mf)3	08:33	Bottom	3	1	24.3	8.11	28.4	7.97	7.46	10.1
TMCLKL	HY/2012/07	2016-12-10	Mid-Ebb	CS(Mf)3	08:33	Bottom	3	2	24.4	8.15	28.5	8	7.5	10.3
TMCLKL	HY/2012/07	2016-12-13	Mid-Flood	CS(Mf)5	16:04	Surface	1	1	22.4	7.81	28.2	7.51	6.88	9.5
TMCLKL	HY/2012/07	2016-12-13	Mid-Flood	CS(Mf)5	16:04	Surface	1	. 2	22.3	7.84	28.1	7.56	6.84	9.4
TMCLKL	HY/2012/07	2016-12-13	Mid-Flood	CS(Mf)5	16:04	Middle	2	1	22.4	7.83	28.2	7.64	6.81	9.4

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2016-12-13	Mid-Flood	CS(Mf)5	16:04	Middle	2	2	22.5	7.87	28.2	7.67	6.77	9.3
TMCLKL	HY/2012/07	2016-12-13	Mid-Flood	CS(Mf)5	16:04	Bottom	3	1	22.5	7.75	28.3	7.82	6.89	9.6
TMCLKL	HY/2012/07	2016-12-13	Mid-Flood	CS(Mf)5	16:04	Bottom	3	2	22.6	7.79	28.3	7.78	6.92	9.7
TMCLKL	HY/2012/07	2016-12-13	Mid-Flood	SR4a	16:27	Surface	1	1	22.3	7.78	28.3	7.18	6.25	8.6
TMCLKL	HY/2012/07	2016-12-13	Mid-Flood	SR4a	16:27	Surface	1	2	22.4	7.75	28.3	7.21	6.27	8.7
TMCLKL	HY/2012/07	2016-12-13	Mid-Flood	SR4a	16:27	Middle	2	1						
TMCLKL	HY/2012/07	2016-12-13	Mid-Flood	SR4a	16:27	Middle	2	2						
TMCLKL	HY/2012/07	2016-12-13	Mid-Flood	SR4a	16:27	Bottom	3	1	22.7	7.8	28.4	7.27	6.36	8.8
TMCLKL	HY/2012/07	2016-12-13	Mid-Flood	SR4a	16:27	Bottom	3	2	22.6	7.83	28.5	7.32	6.34	8.9
TMCLKL	HY/2012/07	2016-12-13	Mid-Flood	SR4	16:48	Surface	1	1	22.5	7.88	28.1	7.16	6.07	8.4
TMCLKL	HY/2012/07	2016-12-13	Mid-Flood	SR4	16:48	Surface	1	2	22.6	7.92	28.2	7.19	6.08	8.4
TMCLKL	HY/2012/07	2016-12-13	Mid-Flood	SR4	16:48	Middle	2	1						
TMCLKL	HY/2012/07	2016-12-13	Mid-Flood	SR4	16:48	Middle	2	2						
TMCLKL	HY/2012/07	2016-12-13	Mid-Flood	SR4	16:48	Bottom	3	1	22.8	7.96	28.3	7.14	6.15	8.7
TMCLKL	HY/2012/07	2016-12-13	Mid-Flood	SR4	16:48	Bottom	3	2	22.7	7.93	28.3	7.08	6.17	8.8
TMCLKL	HY/2012/07	2016-12-13	Mid-Flood	IS8	17:09	Surface	1	1	22.5	7.91	28.2	7.57	6.23	8.6
TMCLKL	HY/2012/07	2016-12-13	Mid-Flood	IS8	17:09	Surface	1	2	22.5	7.87	28.3	7.59	6.25	8.6
TMCLKL	HY/2012/07	2016-12-13	Mid-Flood	IS8	17:09	Middle	2	1						
TMCLKL	HY/2012/07	2016-12-13	Mid-Flood	IS8	17:09	Middle	2	2						
TMCLKL	HY/2012/07	2016-12-13	Mid-Flood	IS8	17:09	Bottom	3	1	22.6	7.93	28.4	7.63	6.07	8.6
TMCLKL	HY/2012/07	2016-12-13	Mid-Flood	IS8	17:09	Bottom	3	2	22.7	7.95	28.3	7.66	6.1	8.7
TMCLKL	HY/2012/07	2016-12-13	Mid-Flood	IS(Mf)16	17:25	Surface	1	1	22.5	8.01	28.2	7.63	6.55	9
TMCLKL	HY/2012/07	2016-12-13	Mid-Flood	IS(Mf)16	17:25	Surface	1	2	22.6	7.98	28.3	7.7	6.52	9
TMCLKL	HY/2012/07	2016-12-13	Mid-Flood	IS(Mf)16	17:25	Middle	2	1	22.6	8.07	28	7.66	6.47	8.7
TMCLKL	HY/2012/07	2016-12-13	Mid-Flood	IS(Mf)16	17:25	Middle	2	2	22.7	8.12	28.1	7.72	6.53	8.9
TMCLKL	HY/2012/07	2016-12-13	Mid-Flood	IS(Mf)16	17:25	Bottom	3	1	22.7	7.93	28.4	7.84	6.72	9.2
TMCLKL	HY/2012/07	2016-12-13	Mid-Flood	IS(Mf)16	17:25	Bottom	3	2	22.9	7.95	28.5	7.82	6.74	9.2
TMCLKL	HY/2012/07	2016-12-13	Mid-Flood	IS(Mf)9	17:40	Surface	1	1	22.4	7.87	28.1	7.52	6.74	9
TMCLKL	HY/2012/07	2016-12-13	Mid-Flood	IS(Mf)9	17:40	Surface	1	2	22.4	7.9	28.2	7.55	6.76	9
TMCLKL	HY/2012/07	2016-12-13	Mid-Flood	IS(Mf)9	17:40	Middle	2	1						
TMCLKL	HY/2012/07	2016-12-13	Mid-Flood	IS(Mf)9	17:40	Middle	2	2						
TMCLKL	HY/2012/07	2016-12-13	Mid-Flood	IS(Mf)9	17:40	Bottom	3	1	22.7	7.98	28.4	7.46	6.58	8.9
TMCLKL	HY/2012/07	2016-12-13	Mid-Flood	IS(Mf)9	17:40	Bottom	3	2	22.6	8.03	28.3	7.43	6.61	9

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2016-12-13	Mid-Flood	CS(Mf)3	17:53	Surface	1	1	22.4	8.01	28.1	7.31	6.27	8.3
TMCLKL	HY/2012/07	2016-12-13	Mid-Flood	CS(Mf)3	17:53	Surface	1	. 2	22.5	7.95	28.1	7.35	6.3	8.4
TMCLKL	HY/2012/07	2016-12-13	Mid-Flood	CS(Mf)3	17:53	Middle	2	1	22.6	7.84	28.3	7.44	6.36	8.5
TMCLKL	HY/2012/07	2016-12-13	Mid-Flood	CS(Mf)3	17:53	Middle	2	2	22.6	7.86	28.4	7.46	6.39	8.6
TMCLKL	HY/2012/07	2016-12-13	Mid-Flood	CS(Mf)3	17:53	Bottom	3	1	22.8	7.63	28.2	7.38	6.52	9.1
TMCLKL	HY/2012/07	2016-12-13	Mid-Flood	CS(Mf)3	17:53	Bottom	3	2	22.7	7.67	28.3	7.4	6.56	9.1
TMCLKL	HY/2012/07	2016-12-13	Mid-Ebb	CS(Mf)5	13:47	Surface	1	1	22.3	7.85	28.1	7.34	6.4	8.7
TMCLKL	HY/2012/07	2016-12-13	Mid-Ebb	CS(Mf)5	13:47	Surface	1	. 2	22.4	7.89	28.2	7.29	6.48	8.8
TMCLKL	HY/2012/07	2016-12-13	Mid-Ebb	CS(Mf)5	13:47	Middle	2	1	22.5	7.8	28.3	7.17	6.87	9.3
TMCLKL	HY/2012/07	2016-12-13	Mid-Ebb	CS(Mf)5	13:47	Middle	2	2	22.6	7.84	28.4	7.21	6.78	9.2
TMCLKL	HY/2012/07	2016-12-13	Mid-Ebb	CS(Mf)5	13:47	Bottom	3	1	22.7	7.93	28.6	7.06	6.59	9.1
TMCLKL	HY/2012/07	2016-12-13	Mid-Ebb	CS(Mf)5	13:47	Bottom	3	2	22.6	7.96	28.5		6.68	9.2
TMCLKL	HY/2012/07	2016-12-13	Mid-Ebb	SR4a	13:23	Surface	1	1	22.4	7.93	28.2	7.27	6.32	8.4
TMCLKL	HY/2012/07	2016-12-13	Mid-Ebb	SR4a	13:23	Surface	1	. 2	22.5	7.88	28.3	7.23	6.24	8.3
TMCLKL	HY/2012/07	2016-12-13	Mid-Ebb	SR4a	13:23	Middle	2	1						<u> </u>
TMCLKL	HY/2012/07	2016-12-13	Mid-Ebb	SR4a	13:23	Middle	2	2						<u> </u>
TMCLKL	HY/2012/07	2016-12-13	Mid-Ebb	SR4a	13:23	Bottom	3	1	22.6	7.82	28.4	7.31	6.46	8.7
TMCLKL	HY/2012/07	2016-12-13	Mid-Ebb	SR4a	13:23	Bottom	3	2	22.5	7.86	28.3	7.35	6.42	8.7
TMCLKL	HY/2012/07	2016-12-13	Mid-Ebb	SR4	13:01	Surface	1	. 1	22.7	7.96	28	7.06	6.23	8.3
TMCLKL	HY/2012/07	2016-12-13	Mid-Ebb	SR4	13:01	Surface	1	. 2	22.6	7.91	28.1	7	6.27	8.3
TMCLKL	HY/2012/07	2016-12-13	Mid-Ebb	SR4	13:01	Middle	2	1						<u>i</u>
TMCLKL	HY/2012/07	2016-12-13	Mid-Ebb	SR4	13:01	Middle	2	2						<u> </u>
TMCLKL	HY/2012/07	2016-12-13	Mid-Ebb	SR4	13:01	Bottom	3	1	22.8	7.98	28.2	6.81	6.34	8.4
TMCLKL	HY/2012/07	2016-12-13	Mid-Ebb	SR4	13:01	Bottom	3	2	22.9	7.94	28.3	6.9	6.43	8.6
TMCLKL	HY/2012/07	2016-12-13	Mid-Ebb	IS8	12:39	Surface	1	. 1	22.4	7.94	28.1	7.42	6.28	8.4
	HY/2012/07	2016-12-13	Mid-Ebb	IS8	12:39	Surface	1	. 2	22.5	7.98	28.2	7.47	6.35	8.4
	HY/2012/07	2016-12-13	Mid-Ebb	IS8		Middle	2	1						
TMCLKL	HY/2012/07	2016-12-13	Mid-Ebb	IS8	12:39	Middle	2	2						
TMCLKL	HY/2012/07	2016-12-13	Mid-Ebb	IS8		Bottom	3		22.7	7.99	28.3		6.14	8.3
TMCLKL	HY/2012/07	2016-12-13	Mid-Ebb	IS8	12:39	Bottom	3	2	22.8	7.95	28.4			8.4
TMCLKL	HY/2012/07	2016-12-13	Mid-Ebb	IS(Mf)16	12:17	Surface	1	1	22.6	8.16	28		6.61	8.8
	HY/2012/07	2016-12-13	Mid-Ebb	IS(Mf)16		Surface	1	. 2	22.5	8.13	27.9		6.52	8.7
TMCLKL	HY/2012/07	2016-12-13	Mid-Ebb	IS(Mf)16	12:17	Middle	2	2 1	22.7	7.96	28.2	7.63	6.31	8.4

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2016-12-13	Mid-Ebb	IS(Mf)16	12:17	Middle	2	2	22.8	7.99	28.3	7.67	6.24	8.3
TMCLKL	HY/2012/07	2016-12-13	Mid-Ebb	IS(Mf)16	12:17	Bottom	3	1	23.1	7.88	28.5	7.95	6.6	9
TMCLKL	HY/2012/07	2016-12-13	Mid-Ebb	IS(Mf)16	12:17	Bottom	3	2	23		28.4	7.99	6.65	8.9
TMCLKL	HY/2012/07	2016-12-13	Mid-Ebb	IS(Mf)9	11:55	Surface	1	1	22.4	7.97	28	7.46	6.83	9.2
TMCLKL	HY/2012/07	2016-12-13	Mid-Ebb	IS(Mf)9	11:55	Surface	1	2	22.5	7.93	28.1	7.43	6.88	9.3
TMCLKL	HY/2012/07	2016-12-13	Mid-Ebb	IS(Mf)9	11:55	Middle	2	1						
TMCLKL	HY/2012/07	2016-12-13	Mid-Ebb	IS(Mf)9	11:55	Middle	2	2						
TMCLKL	HY/2012/07	2016-12-13	Mid-Ebb	IS(Mf)9	11:55	Bottom	3	1	22.6	8.16	28.3	7.48	6.64	9
TMCLKL	HY/2012/07	2016-12-13	Mid-Ebb	IS(Mf)9	11:55	Bottom	3	2	22.5	8.13	28.4	7.39	6.6	9
TMCLKL	HY/2012/07	2016-12-13	Mid-Ebb	CS(Mf)3	11:33	Surface	1	1	22.3	8.16	27.8	7.37	6.78	9.2
TMCLKL	HY/2012/07	2016-12-13	Mid-Ebb	CS(Mf)3	11:33	Surface	1	2	22.4	8.13	27.9	7.42	6.7	9
TMCLKL	HY/2012/07	2016-12-13	Mid-Ebb	CS(Mf)3	11:33	Middle	2	1	22.5	7.98	28.2	7.56	6.61	8.9
TMCLKL	HY/2012/07	2016-12-13	Mid-Ebb	CS(Mf)3	11:33	Middle	2	2	22.6	8.01	28.3			9
TMCLKL	HY/2012/07	2016-12-13	Mid-Ebb	CS(Mf)3	11:33	Bottom	3	1	22.9	8.17	28.5	7.82	6.52	8.9
TMCLKL	HY/2012/07	2016-12-13	Mid-Ebb	CS(Mf)3	11:33	Bottom	3	2	22.8	8.21	28.6	7.85	6.56	9
TMCLKL	HY/2012/07	2016-12-15	Mid-Flood	CS(Mf)5	08:05	Surface	1	1	22	7.84	27.3	7.21	7.27	10
TMCLKL	HY/2012/07	2016-12-15	Mid-Flood	CS(Mf)5	08:05	Surface	1	2	22	7.85	27.3	7.25	7.33	10.1
TMCLKL	HY/2012/07	2016-12-15	Mid-Flood	CS(Mf)5	08:05	Middle	2	1	21.8	7.86	27.5	7.08	7.84	10.8
TMCLKL	HY/2012/07	2016-12-15	Mid-Flood	CS(Mf)5	08:05	Middle	2	2	21.8	7.86	27.5	7.05	7.79	10.8
TMCLKL	HY/2012/07	2016-12-15	Mid-Flood	CS(Mf)5	08:05	Bottom	3	1	21.7	7.86	27.7	7.14	7.98	11.2
TMCLKL	HY/2012/07	2016-12-15	Mid-Flood	CS(Mf)5	08:05	Bottom	3	2	21.6	7.87	27.7	7.18	7.95	11.1
TMCLKL	HY/2012/07	2016-12-15	Mid-Flood	SR4a	08:25	Surface	1	1	22	7.88	27.1	7.08	7.49	10.3
TMCLKL	HY/2012/07	2016-12-15	Mid-Flood	SR4a	08:25	Surface	1	2	22	7.88	27.2	7.05	7.44	10.3
TMCLKL	HY/2012/07	2016-12-15	Mid-Flood	SR4a	08:25	Middle	2	1						
TMCLKL	HY/2012/07	2016-12-15	Mid-Flood	SR4a	08:25	Middle	2	2						
	HY/2012/07	2016-12-15			08:25	Bottom	3	1	21.9		27.4			10.8
TMCLKL	HY/2012/07	2016-12-15	Mid-Flood	SR4a	08:25	Bottom	3	2	21.9	7.88	27.4			10.8
TMCLKL	HY/2012/07	2016-12-15	Mid-Flood	SR4	08:40	Surface	1	1	22.1	7.9	27.1	7.1	6.92	9.5
TMCLKL	HY/2012/07	2016-12-15	Mid-Flood	SR4	08:40	Surface	1	2	22.1	7.91	27.1	7.14	6.96	9.6
TMCLKL	HY/2012/07	2016-12-15	Mid-Flood	SR4	08:40	Middle	2	1						
TMCLKL	HY/2012/07	2016-12-15	Mid-Flood	SR4	08:40	Middle	2	2						
TMCLKL	HY/2012/07	2016-12-15	Mid-Flood	SR4	08:40	Bottom	3	1	22	7.91	27.4	7.08	7.58	10.7
TMCLKL	HY/2012/07	2016-12-15	Mid-Flood	SR4	08:40	Bottom	3	2	22	7.93	27.4	7.14	7.5	10.7

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2016-12-15	Mid-Flood	IS8	08:58	Surface	]	1	22.1	7.92	27.2	7.22	7.37	10.2
TMCLKL	HY/2012/07	2016-12-15	Mid-Flood	IS8	08:58	Surface	]	2	22.1	7.92	27.2	7.18	7.34	10.1
TMCLKL	HY/2012/07	2016-12-15	Mid-Flood	IS8	08:58	Middle	2	2 1						
TMCLKL	HY/2012/07	2016-12-15	Mid-Flood	IS8	08:58	Middle	2	2 2						
TMCLKL	HY/2012/07	2016-12-15	Mid-Flood	IS8	08:58	Bottom		3	21.9	7.93	27.5	7.07	7.49	10.6
TMCLKL	HY/2012/07	2016-12-15	Mid-Flood	IS8	08:58	Bottom	3	3 2	21.9	7.94	27.5	7.04	7.52	10.7
TMCLKL	HY/2012/07	2016-12-15	Mid-Flood	IS(Mf)16	09:20	Surface	]	1	22	7.93	27.4	7.45	6.98	9.6
TMCLKL	HY/2012/07	2016-12-15	Mid-Flood	IS(Mf)16	09:20	Surface	]	1 2	22	7.93	27.3	7.48	6.95	9.6
TMCLKL	HY/2012/07	2016-12-15	Mid-Flood	IS(Mf)16	09:20	Middle	2	2 1	21.8	7.95	27.8	7.42	7.74	10.4
TMCLKL	HY/2012/07	2016-12-15	Mid-Flood	IS(Mf)16	09:20	Middle		2 2	21.9	7.95	27.8	7.45	7.7	10.5
TMCLKL	HY/2012/07	2016-12-15	Mid-Flood	IS(Mf)16	09:20	Bottom	3	3 1	21.8	7.95	27.9	7.48	8.02	11
TMCLKL	HY/2012/07	2016-12-15	Mid-Flood	IS(Mf)16	09:20	Bottom	3	3 2	21.8	7.95	27.9	7.45	8.06	11
TMCLKL	HY/2012/07	2016-12-15	Mid-Flood	IS(Mf)9	09:45	Surface	]	1	22.1	7.97	27.4	7.29	6.77	9
TMCLKL	HY/2012/07	2016-12-15	Mid-Flood	IS(Mf)9	09:45	Surface	]	1 2	22.1	7.96	27.4	7.33	6.7	8.9
TMCLKL	HY/2012/07	2016-12-15	Mid-Flood	IS(Mf)9	09:45	Middle	2	2 1						
TMCLKL	HY/2012/07	2016-12-15	Mid-Flood	IS(Mf)9	09:45	Middle	2	2 2						
TMCLKL	HY/2012/07	2016-12-15	Mid-Flood	IS(Mf)9	09:45	Bottom	Ć.	3 1	21.8	7.98	27.7	7.34	7.44	10.1
TMCLKL	HY/2012/07	2016-12-15	Mid-Flood	IS(Mf)9	09:45	Bottom	Ć.	3 2	21.8	7.97	27.8	7.38	7.4	10.1
TMCLKL	HY/2012/07	2016-12-15	Mid-Flood	CS(Mf)3	10:05	Surface	]	1	22.1	7.98	27.5	7.57	7.11	9.5
TMCLKL	HY/2012/07	2016-12-15	Mid-Flood	CS(Mf)3	10:05	Surface	]	2	22.2	7.98	27.5	7.59	7.15	9.5
TMCLKL	HY/2012/07	2016-12-15	Mid-Flood	CS(Mf)3	10:05	Middle		2 1	22	7.99	27.8	7.44	7.49	10
TMCLKL	HY/2012/07	2016-12-15	Mid-Flood	CS(Mf)3	10:05	Middle	2	2 2	22	7.99	27.8		7.46	10.1
TMCLKL	HY/2012/07	2016-12-15	Mid-Flood	CS(Mf)3	10:05	Bottom	Ć.	3 1	21.9	8.01	27.9	7.39	7.81	10.9
TMCLKL	HY/2012/07	2016-12-15	Mid-Flood	CS(Mf)3		Bottom	3	3 2	21.9	8.02	28	7.42	7.76	10.7
TMCLKL	HY/2012/07	2016-12-15	Mid-Ebb	CS(Mf)5	14:30	Surface		1	22.3	7.9	27.5	7.07	7.41	10.1
	HY/2012/07	2016-12-15	Mid-Ebb	CS(Mf)5		Surface	]	2	22.3	7.89	27.5	7.04	7.38	10
	HY/2012/07	2016-12-15	Mid-Ebb	CS(Mf)5	14:30	Middle	2	2 1	22.1	7.88	27.6		7.77	10.6
TMCLKL	HY/2012/07	2016-12-15	Mid-Ebb	CS(Mf)5	14:30	Middle	2	2 2	22.2	7.86	27.6	7.21	7.8	10.6
	HY/2012/07	2016-12-15	Mid-Ebb	CS(Mf)5		Bottom	3	3 1	22.1	7.93	27.8		8.02	11.1
TMCLKL	HY/2012/07	2016-12-15		CS(Mf)5	14:30	Bottom	Ġ	3 2	22.1	7.95	27.7	7.25	8.06	11.1
TMCLKL	HY/2012/07	2016-12-15	Mid-Ebb	SR4a	14:10	Surface	]	1	22.3	7.86	27.4	7.22	7.74	10.3
	HY/2012/07	2016-12-15		SR4a		Surface		2	22.3	7.83	27.4	7.25	7.71	10.3
TMCLKL	HY/2012/07	2016-12-15	Mid-Ebb	SR4a	14:10	Middle	2	2 1						

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2016-12-15	Mid-Ebb	SR4a	14:10	Middle	2	2						1
TMCLKL	HY/2012/07	2016-12-15	Mid-Ebb	SR4a	14:10	Bottom	3	1	22.3	7.9	27.5	7.34	7.93	10.7
TMCLKL	HY/2012/07	2016-12-15	Mid-Ebb	SR4a	14:10	Bottom	3	2	22.2	7.88	27.5	7.3	7.96	10.7
TMCLKL	HY/2012/07	2016-12-15	Mid-Ebb	SR4	13:45	Surface	1	1	22.3	7.86	27.3	6.92	7.14	10.7
TMCLKL	HY/2012/07	2016-12-15	Mid-Ebb	SR4	13:45	Surface	1	2	22.4	7.84	27.3	6.97	7.17	10.7
TMCLKL	HY/2012/07	2016-12-15	Mid-Ebb	SR4	13:45	Middle	2	1						
TMCLKL	HY/2012/07	2016-12-15	Mid-Ebb	SR4	13:45	Middle	2	2						
TMCLKL	HY/2012/07	2016-12-15	Mid-Ebb	SR4	13:45	Bottom	3	1	22.2	7.91	27.5	7.15	7.49	9.5
TMCLKL	HY/2012/07	2016-12-15	Mid-Ebb	SR4	13:45	Bottom	3	2	22.3	7.93	27.5	7.11	7.44	9.5
TMCLKL	HY/2012/07	2016-12-15	Mid-Ebb	IS8	13:24	Surface	1	1	22.3	7.9	27.4	7.08	7.46	9.9
TMCLKL	HY/2012/07	2016-12-15	Mid-Ebb	IS8	13:24	Surface	1	2	22.3	7.87	27.4	7.05	7.49	10
TMCLKL	HY/2012/07	2016-12-15	Mid-Ebb	IS8	13:24	Middle	2	1						
TMCLKL	HY/2012/07	2016-12-15	Mid-Ebb	IS8	13:24	Middle	2	2						
TMCLKL	HY/2012/07	2016-12-15	Mid-Ebb	IS8	13:24	Bottom	3	1	22.4	7.93	27.6	7.17	7.61	10.3
TMCLKL	HY/2012/07	2016-12-15	Mid-Ebb	IS8	13:24	Bottom	3	2	22.3	7.96	27.5	7.14	7.64	10.3
TMCLKL	HY/2012/07	2016-12-15	Mid-Ebb	IS(Mf)16	13:00	Surface	1	1	22.3	7.69	27.6	7.56	7.11	9.5
TMCLKL	HY/2012/07	2016-12-15	Mid-Ebb	IS(Mf)16	13:00	Surface	1	2	22.4	7.71	27.6	7.52	7.14	9.5
TMCLKL	HY/2012/07	2016-12-15	Mid-Ebb	IS(Mf)16	13:00	Middle	2	1	22.1	7.76	27.9	7.73	7.43	9.9
TMCLKL	HY/2012/07	2016-12-15	Mid-Ebb	IS(Mf)16	13:00	Middle	2	2	22.2	7.79	27.9	7.77	7.47	9.9
TMCLKL	HY/2012/07	2016-12-15	Mid-Ebb	IS(Mf)16	13:00	Bottom	3	1	22.1	7.74	28	7.82	7.79	10.6
TMCLKL	HY/2012/07	2016-12-15	Mid-Ebb	IS(Mf)16	13:00	Bottom	3	2	22.1	7.71	28.1	7.85	7.74	10.4
TMCLKL	HY/2012/07	2016-12-15	Mid-Ebb	IS(Mf)9	12:39	Surface	1	1	22.3	7.93	27.6	7.04	6.86	9.3
TMCLKL	HY/2012/07	2016-12-15	Mid-Ebb	IS(Mf)9	12:39	Surface	1	2	22.3	7.91	27.6	7.07	6.82	9.2
TMCLKL	HY/2012/07	2016-12-15	Mid-Ebb	IS(Mf)9	12:39	Middle	2	1						
TMCLKL	HY/2012/07	2016-12-15	Mid-Ebb	IS(Mf)9	12:39	Middle	2	2						
TMCLKL	HY/2012/07	2016-12-15	Mid-Ebb	IS(Mf)9	12:39	Bottom	3	1	22.3	7.88	27.7	7.23	7.15	9.7
TMCLKL	HY/2012/07	2016-12-15	Mid-Ebb	IS(Mf)9	12:39	Bottom	3	2	22.2	7.87	27.8	7.26	7.18	9.8
TMCLKL	HY/2012/07	2016-12-15	Mid-Ebb	CS(Mf)3	12:15	Surface	1	1	22.3	7.86	27.7	7.23	7.28	9.8
TMCLKL	HY/2012/07	2016-12-15	Mid-Ebb	CS(Mf)3	12:15	Surface	1	2	22.3	7.84	27.7	7.19	7.23	9.8
TMCLKL	HY/2012/07	2016-12-15	Mid-Ebb	CS(Mf)3	12:15	Middle	2	1	22.3	7.91	27.9	7.34	7.4	10
TMCLKL	HY/2012/07	2016-12-15	Mid-Ebb	CS(Mf)3	12:15	Middle	2	2	22.2	7.93	27.9	7.39	7.43	10
TMCLKL	HY/2012/07	2016-12-15	Mid-Ebb	CS(Mf)3	12:15	Bottom	3	1	22.2	7.81	27.9		7.53	10.2
TMCLKL	HY/2012/07	2016-12-15	Mid-Ebb	CS(Mf)3	12:15	Bottom	3	2	22.3	7.79	28	7.54	7.5	10.3

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2016-12-17	Mid-Flood	CS(Mf)5	09:53	Surface	1	1	21.4	7.69	27.7	6.86	9.24	12.8
TMCLKL	HY/2012/07	2016-12-17	Mid-Flood	CS(Mf)5	09:53	Surface	1	2	21.5	7.64	27.8	6.83	9.33	12.9
TMCLKL	HY/2012/07	2016-12-17	Mid-Flood	CS(Mf)5	09:53	Middle	2	1	21.5	7.73	27.8	6.74	9.56	13.2
TMCLKL	HY/2012/07	2016-12-17	Mid-Flood	CS(Mf)5	09:53	Middle	2	2	21.6	7.68	27.8	6.69	9.64	13.3
TMCLKL	HY/2012/07	2016-12-17	Mid-Flood	CS(Mf)5	09:53	Bottom	3	1	21.8	7.6	27.9	6.89	8.94	12.5
TMCLKL	HY/2012/07	2016-12-17	Mid-Flood	CS(Mf)5	09:53	Bottom	3	2	21.8	7.63	28	6.91	9.03	12.6
TMCLKL	HY/2012/07	2016-12-17	Mid-Flood	SR4a	10:18	Surface	1	1	21.4	7.63	27.8	6.79	9.13	12.6
TMCLKL	HY/2012/07	2016-12-17	Mid-Flood	SR4a	10:18	Surface	1	2	21.4	7.66	27.8	6.81	9.06	12.5
TMCLKL	HY/2012/07	2016-12-17	Mid-Flood	SR4a	10:18	Middle	2	1						
TMCLKL	HY/2012/07	2016-12-17	Mid-Flood	SR4a	10:18	Middle	2	2						
TMCLKL	HY/2012/07	2016-12-17	Mid-Flood	SR4a	10:18	Bottom	3	1	21.4	7.67	27.8	6.85	9.34	13
TMCLKL	HY/2012/07	2016-12-17	Mid-Flood	SR4a	10:18	Bottom	3	2	21.4	7.64	27.8	6.87	9.4	13.2
TMCLKL	HY/2012/07	2016-12-17	Mid-Flood	SR4	10:33	Surface	1	1	21.4	7.6	27.8	6.73	9.16	12.6
TMCLKL	HY/2012/07	2016-12-17	Mid-Flood	SR4	10:33	Surface	1	2	21.4	7.63	27.9	6.76	9.1	12.6
TMCLKL	HY/2012/07	2016-12-17	Mid-Flood	SR4	10:33	Middle	2	1						
TMCLKL	HY/2012/07	2016-12-17	Mid-Flood	SR4	10:33	Middle	2	2						
TMCLKL	HY/2012/07	2016-12-17	Mid-Flood	SR4	10:33	Bottom	3	1	21.4	7.66	27.9	6.65	9.07	12.8
TMCLKL	HY/2012/07	2016-12-17	Mid-Flood	SR4	10:33	Bottom	3	2	21.5	7.62	27.9	6.68	9.01	12.8
TMCLKL	HY/2012/07	2016-12-17	Mid-Flood	IS8	10:47	Surface	1	1	21.4	7.64	27.8	6.81	9.04	12.5
TMCLKL	HY/2012/07	2016-12-17	Mid-Flood	IS8	10:47	Surface	1	2	21.5	7.67	27.8	6.78	8.97	12.4
TMCLKL	HY/2012/07	2016-12-17	Mid-Flood	IS8	10:47	Middle	2	1						
TMCLKL	HY/2012/07	2016-12-17	Mid-Flood	IS8	10:47	Middle	2	2						
TMCLKL	HY/2012/07	2016-12-17	Mid-Flood	IS8	10:47	Bottom	3	1	21.5	7.68	27.7	6.7	9.16	13
TMCLKL	HY/2012/07	2016-12-17	Mid-Flood	IS8	10:47	Bottom	3	2	21.5	7.65	27.8	6.66	9.1	12.9
TMCLKL	HY/2012/07	2016-12-17	Mid-Flood	IS(Mf)16	11:03	Surface	1	1	21.5	7.74	27.8	6.73	9.24	12.8
TMCLKL	HY/2012/07	2016-12-17	Mid-Flood	IS(Mf)16	11:03	Surface	1	2	21.5	7.7	27.9	6.7	9.31	12.8
TMCLKL	HY/2012/07	2016-12-17	Mid-Flood	IS(Mf)16	11:03	Middle	2	1	21.5	7.66	27.9	6.64	9.05	12.2
TMCLKL	HY/2012/07	2016-12-17	Mid-Flood	IS(Mf)16	11:03	Middle	2	2	21.5	7.68	27.9	6.61	9	12.2
TMCLKL	HY/2012/07	2016-12-17	Mid-Flood	IS(Mf)16	11:03	Bottom	3	1	21.6	7.74	28.1	6.79	8.76	12
TMCLKL	HY/2012/07	2016-12-17	Mid-Flood	IS(Mf)16	11:03	Bottom	3	2	21.7	7.77	28	6.82	8.84	12.1
TMCLKL	HY/2012/07	2016-12-17	Mid-Flood	IS(Mf)9	11:25	Surface	1	1	21.5	7.68	27.9	6.87	9.18	12.2
TMCLKL	HY/2012/07	2016-12-17	Mid-Flood	IS(Mf)9	11:25	Surface	1	2	21.6	7.64	27.8	6.84	9.09	12.1
TMCLKL	HY/2012/07	2016-12-17	Mid-Flood	IS(Mf)9	11:25	Middle	2	1						

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2016-12-17	Mid-Flood	IS(Mf)9	11:25	Middle	2	2						
TMCLKL	HY/2012/07	2016-12-17	Mid-Flood	IS(Mf)9	11:25	Bottom	3	1	21.5	7.6	27.9	6.96	9.34	12.7
TMCLKL	HY/2012/07	2016-12-17	Mid-Flood	IS(Mf)9	11:25	Bottom	3	2	21.5	7.64	27.9	6.93	9.25	12.6
TMCLKL	HY/2012/07	2016-12-17	Mid-Flood	CS(Mf)3	11:42	Surface	1	1	21.6	7.69	27.9	6.78	9.15	12.2
TMCLKL	HY/2012/07	2016-12-17	Mid-Flood	CS(Mf)3	11:42	Surface	1	2	21.6	7.73	27.9	6.75	9.24	12.3
TMCLKL	HY/2012/07	2016-12-17	Mid-Flood	CS(Mf)3	11:42	Middle	2	1	21.6	7.64	27.9	6.69	9.4	12.6
TMCLKL	HY/2012/07	2016-12-17	Mid-Flood	CS(Mf)3	11:42	Middle	2	2	21.5	7.68	27.9	6.64	9.32	12.6
TMCLKL	HY/2012/07	2016-12-17	Mid-Flood	CS(Mf)3	11:42	Bottom	3	1	21.7	7.7	28.1	6.77	8.93	12.4
TMCLKL	HY/2012/07	2016-12-17	Mid-Flood	CS(Mf)3	11:42	Bottom	3	2	21.7	7.73	28.1	6.8	9.02	12.4
TMCLKL	HY/2012/07	2016-12-17	Mid-Ebb	CS(Mf)5	15:30	Surface	1	1	21.5	7.85	27.8	6.6	9.4	12.8
TMCLKL	HY/2012/07	2016-12-17	Mid-Ebb	CS(Mf)5	15:30	Surface	1	2	21.4	7.83	27.9	6.63	9.43	12.8
TMCLKL	HY/2012/07	2016-12-17	Mid-Ebb	CS(Mf)5	15:30	Middle	2	1	21.6	8.14	28	6.73	10.2	13.9
TMCLKL	HY/2012/07	2016-12-17	Mid-Ebb	CS(Mf)5	15:30	Middle	2	2	21.6	8.16	28.1	6.76	10.4	14.1
TMCLKL	HY/2012/07	2016-12-17	Mid-Ebb	CS(Mf)5	15:30	Bottom	3	1	21.7	7.95	28.2	6.88	11	15.2
TMCLKL	HY/2012/07	2016-12-17	Mid-Ebb	CS(Mf)5	15:30	Bottom	3	2	21.8	7.97	28.2	6.9	11.2	15.5
TMCLKL	HY/2012/07	2016-12-17	Mid-Ebb	SR4a	15:10	Surface	1	1	21.4	8.24	27.9	6.77	9.33	12.4
TMCLKL	HY/2012/07	2016-12-17	Mid-Ebb	SR4a	15:10	Surface	1	2	21.5	8.22	28	6.75	9.35	12.4
TMCLKL	HY/2012/07	2016-12-17	Mid-Ebb	SR4a	15:10	Middle	2	1						
TMCLKL	HY/2012/07	2016-12-17	Mid-Ebb	SR4a	15:10	Middle	2	2						
TMCLKL	HY/2012/07	2016-12-17	Mid-Ebb	SR4a	15:10	Bottom	3	1	21.6	7.96	28.1	6.99	9.72	13.1
TMCLKL	HY/2012/07	2016-12-17	Mid-Ebb	SR4a	15:10	Bottom	3	2	21.6	7.98	28.2	7.01	9.7	13.1
TMCLKL	HY/2012/07	2016-12-17	Mid-Ebb	SR4	14:53	Surface	1	1	21.5	8.24	27.9	6.41	9.38	12.5
TMCLKL	HY/2012/07	2016-12-17	Mid-Ebb	SR4	14:53	Surface	1	2	21.5	8.22	27.8	6.38	9.41	12.5
TMCLKL	HY/2012/07	2016-12-17	Mid-Ebb	SR4	14:53	Middle	2	1						
TMCLKL	HY/2012/07	2016-12-17	Mid-Ebb	SR4	14:53	Middle	2	2						
TMCLKL	HY/2012/07	2016-12-17	Mid-Ebb	SR4	14:53	Bottom	3	1	21.6	7.96		6.57	9.68	12.9
TMCLKL	HY/2012/07	2016-12-17	Mid-Ebb	SR4	14:53	Bottom	3	2	21.7	7.99	28.1	6.59	9.71	12.9
TMCLKL	HY/2012/07	2016-12-17	Mid-Ebb	IS8	14:41	Surface	1	1	21.4	7.86	27.9	6.65	9.13	12.1
TMCLKL	HY/2012/07	2016-12-17	Mid-Ebb	IS8	14:41	Surface	1	2	21.5	7.89	28	6.68	9.16	12.2
TMCLKL	HY/2012/07	2016-12-17		IS8	14:41	Middle	2	1						
<b>TMCLKL</b>	HY/2012/07	2016-12-17	Mid-Ebb	IS8	14:41	Middle	2	2						
	HY/2012/07	2016-12-17	Mid-Ebb	IS8	14:41	Bottom	3	1	21.6	8.14	28.1	6.94	9.38	12.7
TMCLKL	HY/2012/07	2016-12-17	Mid-Ebb	IS8	14:41	Bottom	3	2	21.6	8.16	28.2	6.97	9.41	12.7

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2016-12-17	Mid-Ebb	IS(Mf)16	14:22	Surface	1	1	21.4	8.14	28	6.85	9.34	12.4
TMCLKL	HY/2012/07	2016-12-17	Mid-Ebb	IS(Mf)16	14:22	Surface	1	2	21.5	8.16	27.9	6.88	9.37	12.5
TMCLKL	HY/2012/07	2016-12-17	Mid-Ebb	IS(Mf)16	14:22	Middle	2	1	21.6	7.93	28.1	7.03	9.45	12.6
TMCLKL	HY/2012/07	2016-12-17	Mid-Ebb	IS(Mf)16	14:22	Middle	2	2	21.7	7.96	28.1	7.06	9.48	12.6
TMCLKL	HY/2012/07	2016-12-17	Mid-Ebb	IS(Mf)16	14:22	Bottom	3	1	21.8	7.88	28.2	7.14	9.68	13.2
TMCLKL	HY/2012/07	2016-12-17	Mid-Ebb	IS(Mf)16	14:22	Bottom	3	2	21.7	7.9	28.3	7.16	9.71	13
TMCLKL	HY/2012/07	2016-12-17	Mid-Ebb	IS(Mf)9	14:04	Surface	1	1	21.5	7.86	28	6.52	10.4	14
TMCLKL	HY/2012/07	2016-12-17	Mid-Ebb	IS(Mf)9	14:04	Surface	1	2	21.5	7.88	27.9	6.5	10.1	13.6
TMCLKL	HY/2012/07	2016-12-17	Mid-Ebb	IS(Mf)9	14:04	Middle	2	1						
TMCLKL	HY/2012/07	2016-12-17	Mid-Ebb	IS(Mf)9	14:04	Middle	2	2						
TMCLKL	HY/2012/07	2016-12-17	Mid-Ebb	IS(Mf)9	14:04	Bottom	3	1	21.6	8.14	28.1	6.67	10.7	14.6
TMCLKL	HY/2012/07	2016-12-17	Mid-Ebb	IS(Mf)9	14:04	Bottom	3	2	21.7	8.16	28.2	6.7	10.7	14.7
TMCLKL	HY/2012/07	2016-12-17	Mid-Ebb	CS(Mf)3	13:47	Surface	1	1	21.4	8.13	27.9	6.48	10	13.5
TMCLKL	HY/2012/07	2016-12-17	Mid-Ebb	CS(Mf)3	13:47	Surface	1	2	21.5	8.15	28	6.51	10.2	13.8
TMCLKL	HY/2012/07	2016-12-17	Mid-Ebb	CS(Mf)3	13:47	Middle	2	1	21.6	7.92	28.1	6.67	10.9	14.7
TMCLKL	HY/2012/07	2016-12-17	Mid-Ebb	CS(Mf)3	13:47	Middle	2	2	21.6	7.94	28.1	6.69	11.1	15
TMCLKL	HY/2012/07	2016-12-17	Mid-Ebb	CS(Mf)3	13:47	Bottom	3	1	21.7	7.86	28.2	6.77	11.4	15.5
TMCLKL	HY/2012/07	2016-12-17	Mid-Ebb	CS(Mf)3	13:47	Bottom	3	2	21.6	7.88	28.3	6.79	11.6	15.9
TMCLKL	HY/2012/07	2016-12-20	Mid-Flood	CS(Mf)5	12:23	Surface	1	1	21.7	7.76	27.7	7.43	9.06	12.5
TMCLKL	HY/2012/07	2016-12-20	Mid-Flood	CS(Mf)5	12:23	Surface	1	2	21.7	7.73	27.6	7.39	9.03	12.5
TMCLKL	HY/2012/07	2016-12-20	Mid-Flood	CS(Mf)5	12:23	Middle	2	1	21.6	7.7	27.7	7.48	9.34	12.9
TMCLKL	HY/2012/07	2016-12-20	Mid-Flood	CS(Mf)5	12:23	Middle	2	2	21.6		27.8		9.26	12.8
TMCLKL	HY/2012/07	2016-12-20	Mid-Flood	CS(Mf)5	12:23	Bottom	3	1	21.4	7.71	27.9	7.73	8.74	12.2
TMCLKL	HY/2012/07	2016-12-20	Mid-Flood	CS(Mf)5	12:23	Bottom	3	2	21.4	7.68	27.9	7.68	8.81	12.3
TMCLKL	HY/2012/07	2016-12-20	Mid-Flood	SR4a	12:48	Surface	1	1	21.7	7.74	27.6		8.79	12.1
	HY/2012/07	2016-12-20			12:48	Surface	1	2	21.7	7.71	27.7	7.32	8.85	12.2
	HY/2012/07	2016-12-20			12:48	Middle	2							
TMCLKL	HY/2012/07	2016-12-20	Mid-Flood	SR4a	12:48	Middle	2	2						
TMCLKL	HY/2012/07	2016-12-20	Mid-Flood	SR4a	12:48	Bottom	3		21.7	7.68	27.7	7.26	9.04	12.6
TMCLKL	HY/2012/07	2016-12-20	Mid-Flood	SR4a	12:48	Bottom	3	2	21.6	7.72	27.7	7.22	9.11	12.8
TMCLKL	HY/2012/07	2016-12-20	Mid-Flood	SR4	13:05	Surface	1	1	21.7	7.64	27.6	7.48	8.94	12.3
	HY/2012/07	2016-12-20	Mid-Flood	SR4		Surface	1	2	21.7	7.61	27.7	7.51	9.01	12.4
TMCLKL	HY/2012/07	2016-12-20	Mid-Flood	SR4	13:05	Middle	2	1						

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2016-12-20	Mid-Flood	SR4	13:05	Middle	2	2						
TMCLKL	HY/2012/07	2016-12-20	Mid-Flood	SR4	13:05	Bottom	3	1	21.7	7.59	27.7	7.39	9.3	13.1
TMCLKL	HY/2012/07	2016-12-20	Mid-Flood	SR4	13:05	Bottom	3	2	21.6	7.63	27.7	7.34	9.39	13.3
TMCLKL	HY/2012/07	2016-12-20	Mid-Flood	IS8	13:18	Surface	1	1	21.6	7.67	27.7	7.56	8.74	12.1
TMCLKL	HY/2012/07	2016-12-20	Mid-Flood	IS8	13:18	Surface	1	2	21.7	7.64	27.8	7.53	8.81	12.2
TMCLKL	HY/2012/07	2016-12-20	Mid-Flood	IS8	13:18	Middle	2	1						
TMCLKL	HY/2012/07	2016-12-20	Mid-Flood	IS8	13:18	Middle	2	2						
TMCLKL	HY/2012/07	2016-12-20	Mid-Flood	IS8	13:18	Bottom	3	1	21.6	7.68	27.8	7.47	9.12	13
TMCLKL	HY/2012/07	2016-12-20	Mid-Flood	IS8	13:18	Bottom	3	2	21.6	7.63	27.9	7.43	9.2	13.1
TMCLKL	HY/2012/07	2016-12-20	Mid-Flood	IS(Mf)16	13:33	Surface	1	1	21.7	7.73	27.8	7.67	8.94	12.3
TMCLKL	HY/2012/07	2016-12-20	Mid-Flood	IS(Mf)16	13:33	Surface	1	2	21.7	7.68	27.7	7.64	9	12.4
TMCLKL	HY/2012/07	2016-12-20	Mid-Flood	IS(Mf)16	13:33	Middle	2	1	21.7	7.59	27.8	7.53	9.31	12.6
TMCLKL	HY/2012/07	2016-12-20	Mid-Flood	IS(Mf)16	13:33	Middle	2	2	21.6	7.63	27.9	7.5	9.26	12.6
TMCLKL	HY/2012/07	2016-12-20	Mid-Flood	IS(Mf)16	13:33	Bottom	3	1	21.5	7.62	28.1	7.76	8.69	11.9
TMCLKL	HY/2012/07	2016-12-20	Mid-Flood	IS(Mf)16	13:33	Bottom	3	2	21.4	7.67	28.1	7.78	8.75	12
TMCLKL	HY/2012/07	2016-12-20	Mid-Flood	IS(Mf)9	13:55	Surface	1	1	21.7	7.73	27.8	7.61	8.87	11.8
TMCLKL	HY/2012/07	2016-12-20	Mid-Flood	IS(Mf)9	13:55	Surface	1	2	21.7	7.69	27.8	7.58	8.94	11.9
TMCLKL	HY/2012/07	2016-12-20	Mid-Flood	IS(Mf)9	13:55	Middle	2	1						
TMCLKL	HY/2012/07	2016-12-20	Mid-Flood	IS(Mf)9	13:55	Middle	2	2						
TMCLKL	HY/2012/07	2016-12-20	Mid-Flood	IS(Mf)9	13:55	Bottom	3	1	21.7	7.64	27.8	7.46	9.16	12.5
TMCLKL	HY/2012/07	2016-12-20	Mid-Flood	IS(Mf)9	13:55	Bottom	3	2	21.6	7.67	27.8	7.43	9.23	12.6
TMCLKL	HY/2012/07	2016-12-20	Mid-Flood	CS(Mf)3	14:14	Surface	1	1	21.7	7.66	27.8	7.73	8.97	11.9
TMCLKL	HY/2012/07	2016-12-20	Mid-Flood	CS(Mf)3	14:14	Surface	1	2	21.8	7.7	27.8	7.7	9.05	12
TMCLKL	HY/2012/07	2016-12-20	Mid-Flood	CS(Mf)3	14:14	Middle	2	1	21.7	7.68	27.8	7.62	9.18	12.3
TMCLKL	HY/2012/07	2016-12-20	Mid-Flood	CS(Mf)3	14:14	Middle	2	2	21.6	7.63	27.9	7.59	9.24	12.5
TMCLKL	HY/2012/07	2016-12-20	Mid-Flood	CS(Mf)3	14:14	Bottom	3	1	21.5	7.61	28.1	7.66	8.67	12.1
TMCLKL	HY/2012/07	2016-12-20	Mid-Flood	CS(Mf)3	14:14	Bottom	3	2	21.4	7.65	28.1	7.68	8.74	12.1
TMCLKL	HY/2012/07	2016-12-20	Mid-Ebb	CS(Mf)5	18:06	Surface	1	1	21.9	7.72	28.1	7.44	9.02	12.3
TMCLKL	HY/2012/07	2016-12-20	Mid-Ebb	CS(Mf)5	18:06	Surface	1	2	22	7.74	28.1	7.48	9.08	12.3
TMCLKL	HY/2012/07	2016-12-20	Mid-Ebb	CS(Mf)5	18:06	Middle	2	1	21.8	7.73	28.2	7.47	9.22	12.5
TMCLKL	HY/2012/07	2016-12-20	Mid-Ebb	CS(Mf)5	18:06	Middle	2	2	21.9	7.74	28.1	7.44	9.26	12.6
TMCLKL	HY/2012/07	2016-12-20	Mid-Ebb	CS(Mf)5	18:06	Bottom	3	1	21.8	7.74	28.2	7.48	8.93	12.3
TMCLKL	HY/2012/07	2016-12-20	Mid-Ebb	CS(Mf)5	18:06	Bottom	3	2	21.8	7.74	28.1	7.52	8.96	12.4

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2016-12-20	Mid-Ebb	SR4a	17:52	Surface	1	1	21.7	7.72	28.2	7.38	8.83	11.7
TMCLKL	HY/2012/07	2016-12-20	Mid-Ebb	SR4a	17:52	Surface	1	. 2	21.8	7.72	28.2	7.34	8.86	11.8
TMCLKL	HY/2012/07	2016-12-20	Mid-Ebb	SR4a	17:52	Middle	2	1						
TMCLKL	HY/2012/07	2016-12-20	Mid-Ebb	SR4a	17:52	Middle	2	2						
TMCLKL	HY/2012/07	2016-12-20	Mid-Ebb	SR4a	17:52	Bottom	3	1	21.8	7.73	28.1	7.23	8.98	12.1
TMCLKL	HY/2012/07	2016-12-20	Mid-Ebb	SR4a	17:52	Bottom	3	2	21.8	7.73	28.1	7.25	8.94	12.1
TMCLKL	HY/2012/07	2016-12-20	Mid-Ebb	SR4	17:39	Surface	1	1	21.9	7.8	28	7.6	8.92	11.9
TMCLKL	HY/2012/07	2016-12-20	Mid-Ebb	SR4	17:39	Surface	1	. 2	21.8	7.83	28.1	7.64	7.95	11.9
TMCLKL	HY/2012/07	2016-12-20	Mid-Ebb	SR4	17:39	Middle	2	1						
TMCLKL	HY/2012/07	2016-12-20	Mid-Ebb	SR4	17:39	Middle	2	2						
TMCLKL	HY/2012/07	2016-12-20	Mid-Ebb	SR4	17:39	Bottom	3	1	21.9	7.8	28.1	7.51	9.22	12.3
TMCLKL	HY/2012/07	2016-12-20	Mid-Ebb	SR4	17:39	Bottom	3	2	21.9	7.76	28.1	7.5	9.26	12.3
TMCLKL	HY/2012/07	2016-12-20	Mid-Ebb	IS8	17:26	Surface	1	1	21.8	7.76	28.1	7.66	8.76	11.7
TMCLKL	HY/2012/07	2016-12-20	Mid-Ebb	IS8	17:26	Surface	1	. 2	21.8	7.72	28.2	7.63	8.72	11.6
TMCLKL	HY/2012/07	2016-12-20	Mid-Ebb	IS8	17:26	Middle	2	1						
TMCLKL	HY/2012/07	2016-12-20	Mid-Ebb	IS8	17:26	Middle	2	2						
TMCLKL	HY/2012/07	2016-12-20	Mid-Ebb	IS8	17:26	Bottom	3	1	21.8	7.71	28.1	7.38	8.97	12.1
TMCLKL	HY/2012/07	2016-12-20	Mid-Ebb	IS8	17:26	Bottom	3	2	21.8	7.67	28.1	7.42	9.02	12.2
TMCLKL	HY/2012/07	2016-12-20	Mid-Ebb	IS(Mf)16	17:10	Surface	1	1	21.8	7.72	28.2	7.62	8.98	11.9
TMCLKL	HY/2012/07	2016-12-20	Mid-Ebb	IS(Mf)16	17:10	Surface	1	2	21.8	7.75	28.1	7.65	8.92	11.9
TMCLKL	HY/2012/07	2016-12-20	Mid-Ebb	IS(Mf)16	17:10	Middle	2	1	21.9	7.68	28.1	7.59	9.26	12.3
TMCLKL	HY/2012/07	2016-12-20	Mid-Ebb	IS(Mf)16	17:10	Middle	2	2	21.8	7.71	28.1	7.61	9.3	12.4
TMCLKL	HY/2012/07	2016-12-20	Mid-Ebb	IS(Mf)16	17:10	Bottom	3	1	21.8	7.72	28.1	7.7	8.71	11.8
TMCLKL	HY/2012/07	2016-12-20	Mid-Ebb	IS(Mf)16	17:10	Bottom	3	2	21.8	7.75	28.2	7.66	8.74	11.7
TMCLKL	HY/2012/07	2016-12-20	Mid-Ebb	IS(Mf)9	16:57	Surface	1	1	22	7.74	28.2	7.65	8.9	12
TMCLKL	HY/2012/07	2016-12-20	Mid-Ebb	IS(Mf)9	16:57	Surface	1	. 2	22.1	7.78	28.1	7.64	8.93	12.1
TMCLKL	HY/2012/07	2016-12-20	Mid-Ebb	IS(Mf)9	16:57	Middle	2	1						
TMCLKL	HY/2012/07	2016-12-20	Mid-Ebb	IS(Mf)9	16:57	Middle	2	2						
TMCLKL	HY/2012/07	2016-12-20	Mid-Ebb	IS(Mf)9	16:57	Bottom	3	1	22	7.7	28.2	7.43	9.12	12.4
TMCLKL	HY/2012/07	2016-12-20	Mid-Ebb	IS(Mf)9		Bottom	3	2	21.9	7.66	28.2	7.46	9.1	12.5
TMCLKL	HY/2012/07	2016-12-20	Mid-Ebb	CS(Mf)3		Surface	1	1	22.1	7.64	28.1	7.76	8.89	12
TMCLKL	HY/2012/07	2016-12-20	Mid-Ebb	CS(Mf)3		Surface	1	. 2	22	7.68	28.2	7.74	8.94	12.1
TMCLKL	HY/2012/07	2016-12-20	Mid-Ebb	CS(Mf)3	16:39	Middle	2	1	22	7.69	28.2	7.66	9.08	12.3

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2016-12-20	Mid-Ebb	CS(Mf)3	16:39	Middle	2	2	21.9	7.72	28.1	7.62	9.11	12.3
TMCLKL	HY/2012/07	2016-12-20	Mid-Ebb	CS(Mf)3	16:39	Bottom	3	1	21.8	7.6	28.2	7.6	8.74	11.9
TMCLKL	HY/2012/07	2016-12-20	Mid-Ebb	CS(Mf)3	16:39	Bottom	3	2	21.8	7.62	28.2	7.62	8.79	12
TMCLKL	HY/2012/07	2016-12-22	Mid-Flood	CS(Mf)5	12:43	Surface	1	1	21.3	7.65	28.2	7.99	7.62	10.4
TMCLKL	HY/2012/07	2016-12-22	Mid-Flood	CS(Mf)5	12:43	Surface	1	2	21.4	7.69	28.2	8.04	7.59	10.3
TMCLKL	HY/2012/07	2016-12-22	Mid-Flood	CS(Mf)5	12:43	Middle	2	1	21.4	7.98	28.2	8.12	7.68	10.4
TMCLKL	HY/2012/07	2016-12-22	Mid-Flood	CS(Mf)5	12:43	Middle	2	2	21.4	7.94	28.3	8.16	7.71	10.5
TMCLKL	HY/2012/07	2016-12-22	Mid-Flood	CS(Mf)5	12:43	Bottom	3	1	21.4	7.83	28.4	8.23	7.51	10.5
TMCLKL	HY/2012/07	2016-12-22	Mid-Flood	CS(Mf)5	12:43	Bottom	3	2	21.5	7.87	28.5	8.27	7.54	10.6
TMCLKL	HY/2012/07	2016-12-22	Mid-Flood	SR4a	13:09	Surface	1	1	21.3	7.72	28.2	7.96	6.43	8.9
TMCLKL	HY/2012/07	2016-12-22	Mid-Flood	SR4a	13:09	Surface	1	2	21.3	7.76	28.3	8	6.47	8.9
TMCLKL	HY/2012/07	2016-12-22	Mid-Flood	SR4a	13:09	Middle	2	1						
TMCLKL	HY/2012/07	2016-12-22	Mid-Flood	SR4a	13:09	Middle	2	2						
TMCLKL	HY/2012/07	2016-12-22	Mid-Flood	SR4a	13:09	Bottom	3	1	21.4	7.58	28.4	8.18	6.75	9.4
TMCLKL	HY/2012/07	2016-12-22	Mid-Flood	SR4a	13:09	Bottom	3	2	21.4	7.62	28.3	8.15	6.77	9.5
TMCLKL	HY/2012/07	2016-12-22	Mid-Flood	SR4	13:31	Surface	1	1	21.3	7.76	28.2	7.81	6.44	8.9
TMCLKL	HY/2012/07	2016-12-22	Mid-Flood	SR4	13:31	Surface	1	2	21.3	7.79	28.1	7.84	6.47	8.9
TMCLKL	HY/2012/07	2016-12-22	Mid-Flood	SR4	13:31	Middle	2	1						
TMCLKL	HY/2012/07	2016-12-22	Mid-Flood	SR4	13:31	Middle	2	2						
TMCLKL	HY/2012/07	2016-12-22	Mid-Flood	SR4	13:31	Bottom	3	1	21.4	7.58	28.2	7.73	6.63	9.3
TMCLKL	HY/2012/07	2016-12-22	Mid-Flood	SR4	13:31	Bottom	3	2	21.4	7.55	28.3	7.75	6.67	9.5
TMCLKL	HY/2012/07	2016-12-22	Mid-Flood	IS8	13:51	Surface	1	1	21.3	7.81	28.1	7.74	6.58	9.1
TMCLKL	HY/2012/07	2016-12-22	Mid-Flood	IS8	13:51	Surface	1	2	21.3	7.84	28.1	7.76	6.61	9.1
TMCLKL	HY/2012/07	2016-12-22	Mid-Flood	IS8	13:51	Middle	2	1						
TMCLKL	HY/2012/07	2016-12-22	Mid-Flood	IS8	13:51	Middle	2	2						
TMCLKL	HY/2012/07	2016-12-22	Mid-Flood	IS8	13:51	Bottom	3	1	21.3	7.96	28.3	7.93	6.84	9.7
TMCLKL	HY/2012/07	2016-12-22	Mid-Flood	IS8	13:51	Bottom	3	2	21.4	7.92	28.2	7.96	6.86	9.7
TMCLKL	HY/2012/07	2016-12-22	Mid-Flood	IS(Mf)16	14:22	Surface	1	1	21.3	7.59	28	7.65	6.68	9.2
TMCLKL	HY/2012/07	2016-12-22	Mid-Flood	IS(Mf)16	14:22	Surface	1	2	21.2	7.64	28.1	7.67	6.64	9.2
TMCLKL	HY/2012/07	2016-12-22	Mid-Flood	IS(Mf)16	14:22	Middle	2	1	21.3	7.88	28.2	7.78	6.93	9.4
TMCLKL	HY/2012/07	2016-12-22	Mid-Flood	IS(Mf)16	14:22	Middle	2	2	21.4	7.85	28.2	7.74	6.97	9.5
TMCLKL	HY/2012/07	2016-12-22	Mid-Flood	IS(Mf)16	14:22	Bottom	3	1	21.4	7.72	28.3	7.91	6.87	9.4
TMCLKL	HY/2012/07	2016-12-22	Mid-Flood	IS(Mf)16	14:22	Bottom	3	2	21.5	7.77	28.3	7.95	6.9	9.5

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2016-12-22	Mid-Flood	IS(Mf)9	14:42	Surface	1	1	21.3	7.88	28	7.52	6.43	8.6
TMCLKL	HY/2012/07	2016-12-22	Mid-Flood	IS(Mf)9	14:42	Surface	1	2	21.2	7.9	28.1	7.55	6.47	8.6
TMCLKL	HY/2012/07	2016-12-22	Mid-Flood	IS(Mf)9	14:42	Middle	2	1						
TMCLKL	HY/2012/07	2016-12-22	Mid-Flood	IS(Mf)9	14:42	Middle	2	2						
TMCLKL	HY/2012/07	2016-12-22	Mid-Flood	IS(Mf)9	14:42	Bottom	3	1	21.3	7.64	28.2	7.68	6.81	9.3
TMCLKL	HY/2012/07	2016-12-22	Mid-Flood	IS(Mf)9	14:42	Bottom	3	2	21.3	7.69	28.3	7.72	6.84	9.3
TMCLKL	HY/2012/07	2016-12-22	Mid-Flood	CS(Mf)3	15:03	Surface	1	1	21.2	7.65	28.1	7.71	6.66	8.9
TMCLKL	HY/2012/07	2016-12-22	Mid-Flood	CS(Mf)3	15:03	Surface	1	2	21.3	7.67	28.1	7.74	6.68	8.9
TMCLKL	HY/2012/07	2016-12-22	Mid-Flood	CS(Mf)3	15:03	Middle	2	. 1	21.3	7.83	28.1	7.56	6.9	9.2
TMCLKL	HY/2012/07	2016-12-22	Mid-Flood	CS(Mf)3	15:03	Middle	2	2	21.3	7.85	28.2	7.58	6.93	9.4
TMCLKL	HY/2012/07	2016-12-22	Mid-Flood	CS(Mf)3	15:03	Bottom	3	1	21.3	7.97	28.3	7.92	6.74	9.4
TMCLKL	HY/2012/07	2016-12-22	Mid-Flood	CS(Mf)3	15:03	Bottom	3	2	21.4	8.01	28.4	7.95	6.76	9.3
TMCLKL	HY/2012/07	2016-12-22	Mid-Ebb	CS(Mf)5	08:35	Surface	1	1	21.3	7.82	28.2	7.93	7.5	10.2
TMCLKL	HY/2012/07	2016-12-22	Mid-Ebb	CS(Mf)5	08:35	Surface	1	2	21.3	7.85	28.1	7.89	7.53	10.2
TMCLKL	HY/2012/07	2016-12-22	Mid-Ebb	CS(Mf)5	08:35	Middle	2	. 1	21.4	7.91	28.2	8.09	7.68	10.4
TMCLKL	HY/2012/07	2016-12-22	Mid-Ebb	CS(Mf)5	08:35	Middle	2	2	21.3	7.89	28.2	8.14	7.64	10.4
TMCLKL	HY/2012/07	2016-12-22	Mid-Ebb	CS(Mf)5	08:35	Bottom	3	1	21.4	7.94	28.3	8.17	7.84	10.8
TMCLKL	HY/2012/07	2016-12-22	Mid-Ebb	CS(Mf)5	08:35	Bottom	3	2	21.4	7.97	28.4	8.23	7.81	10.8
TMCLKL	HY/2012/07	2016-12-22	Mid-Ebb	SR4a	08:26	Surface	1	1	21.3	7.84	28.2	8.04	7.69	10.2
TMCLKL	HY/2012/07	2016-12-22	Mid-Ebb	SR4a	08:26	Surface	1	2	21.3	7.87	28.2	8.08	7.64	10.2
TMCLKL	HY/2012/07	2016-12-22	Mid-Ebb	SR4a	08:26	Middle	2	1						
TMCLKL	HY/2012/07	2016-12-22	Mid-Ebb	SR4a	08:26	Middle	2	2						
TMCLKL	HY/2012/07	2016-12-22	Mid-Ebb	SR4a	08:26	Bottom	3	1	21.4	7.92	28.2	8.2	7.84	10.6
TMCLKL	HY/2012/07	2016-12-22	Mid-Ebb	SR4a	08:26	Bottom	3	2	21.3	7.89	28.3	8.17	7.89	10.7
TMCLKL	HY/2012/07	2016-12-22	Mid-Ebb	SR4	08:12	Surface	1	1	21.3	7.92	28.1	7.75	7.28	9.7
TMCLKL	HY/2012/07	2016-12-22	Mid-Ebb	SR4	08:12	Surface	1	2	21.3	7.94	28.2	7.71	7.24	9.6
TMCLKL	HY/2012/07	2016-12-22	Mid-Ebb	SR4	08:12	Middle	2	1						
TMCLKL	HY/2012/07	2016-12-22	Mid-Ebb	SR4	08:12	Middle	2	2						
TMCLKL	HY/2012/07	2016-12-22	Mid-Ebb	SR4	08:12	Bottom	3	1	21.3	7.88	28.2	7.91	7.39	9.8
TMCLKL	HY/2012/07	2016-12-22	Mid-Ebb	SR4	08:12	Bottom	3	2	21.4	7.85	28.3	7.94	7.43	9.9
TMCLKL	HY/2012/07	2016-12-22	Mid-Ebb	IS8	08:01	Surface	1	1	21.3	7.89	28.1	7.89	7.47	9.9
TMCLKL	HY/2012/07	2016-12-22	Mid-Ebb	IS8	08:01	Surface	1	2	21.3	7.91	28	7.86	7.42	9.9
TMCLKL	HY/2012/07	2016-12-22	Mid-Ebb	IS8	08:01	Middle	2	1						

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2016-12-22	Mid-Ebb	IS8	08:01	Middle	2	2						
TMCLKL	HY/2012/07	2016-12-22	Mid-Ebb	IS8	08:01	Bottom	3	1	21.4	7.86	28.2	8.07	7.59	10.2
TMCLKL	HY/2012/07	2016-12-22	Mid-Ebb	IS8	08:01	Bottom	3	2	21.3	7.89	28.1	8.04	7.62	10.3
TMCLKL	HY/2012/07	2016-12-22	Mid-Ebb	IS(Mf)16	07:49	Surface	1	1	21.3	7.96	28.1	8.02	7.23	9.6
TMCLKL	HY/2012/07	2016-12-22	Mid-Ebb	IS(Mf)16	07:49	Surface	1	2	21.2	7.93	28.1	8.05	7.2	9.6
TMCLKL	HY/2012/07	2016-12-22	Mid-Ebb	IS(Mf)16	07:49	Middle	2	1	21.3	7.9	28.1	8.13	7.09	9.4
TMCLKL	HY/2012/07	2016-12-22	Mid-Ebb	IS(Mf)16	07:49	Middle	2	2	21.3	7.88	28.2	8.17	7.12	9.5
TMCLKL	HY/2012/07	2016-12-22	Mid-Ebb	IS(Mf)16	07:49	Bottom	3	1	21.3	7.87	28.2	8.28	7.34	10
TMCLKL	HY/2012/07	2016-12-22	Mid-Ebb	IS(Mf)16	07:49	Bottom	3	2	21.4	7.9	28.2	8.25	7.37	9.9
TMCLKL	HY/2012/07	2016-12-22	Mid-Ebb	IS(Mf)9	07:38	Surface	1	1	21.2	7.9	28.1	7.95	7.35	9.9
TMCLKL	HY/2012/07	2016-12-22	Mid-Ebb	IS(Mf)9	07:38	Surface	1	2	21.1	7.91	28.1	7.91	7.39	10
TMCLKL	HY/2012/07	2016-12-22	Mid-Ebb	IS(Mf)9	07:38	Middle	2	1						
TMCLKL	HY/2012/07	2016-12-22	Mid-Ebb	IS(Mf)9	07:38	Middle	2	2						
TMCLKL	HY/2012/07	2016-12-22	Mid-Ebb	IS(Mf)9	07:38	Bottom	3	1	21.2	7.93	28.2	8.01	7.43	10.1
TMCLKL	HY/2012/07	2016-12-22	Mid-Ebb	IS(Mf)9	07:38	Bottom	3	2	21.2	7.9	28.1	8.04	7.41	10.2
TMCLKL	HY/2012/07	2016-12-22	Mid-Ebb	CS(Mf)3	07:25	Surface	1	1	21.2	7.82	28	7.86	7.31	9.9
TMCLKL	HY/2012/07	2016-12-22	Mid-Ebb	CS(Mf)3	07:25	Surface	1	2	21.2	7.8	28.1	7.9	7.37	9.9
TMCLKL	HY/2012/07	2016-12-22	Mid-Ebb	CS(Mf)3	07:25	Middle	2	1	21.3	7.86	28.1	8.02	7.44	10
TMCLKL	HY/2012/07	2016-12-22	Mid-Ebb	CS(Mf)3	07:25	Middle	2	2	21.2	7.84	28.2	8.07	7.41	10
TMCLKL	HY/2012/07	2016-12-22	Mid-Ebb	CS(Mf)3	07:25	Bottom	3	1	21.3	7.83	28.2	8.16	7.53	10.2
TMCLKL	HY/2012/07	2016-12-22	Mid-Ebb	CS(Mf)3	07:25	Bottom	3	2	21.4	7.84	28.2	8.13	7.56	10.4
TMCLKL	HY/2012/07	2016-12-24	Mid-Flood	CS(Mf)5	14:02	Surface	1	1	21.1	7.71	28.3	8.05	7.53	10.2
TMCLKL	HY/2012/07	2016-12-24	Mid-Flood	CS(Mf)5	14:02	Surface	1	2	21	7.75	28.2	8.1	7.5	10.2
TMCLKL	HY/2012/07	2016-12-24	Mid-Flood	CS(Mf)5	14:02	Middle	2	1	21.3	8.04	28.4	8.18	7.59	10.3
TMCLKL	HY/2012/07	2016-12-24	Mid-Flood	CS(Mf)5	14:02	Middle	2	2	21.2	8	28.5	8.22	7.62	10.4
TMCLKL	HY/2012/07	2016-12-24	Mid-Flood	CS(Mf)5	14:02	Bottom	3	1	21.3	7.89	28.6	8.29	7.42	10.4
TMCLKL	HY/2012/07	2016-12-24	Mid-Flood	CS(Mf)5	14:02	Bottom	3	2	21.4	7.93	28.5	8.33	7.45	10.4
TMCLKL	HY/2012/07	2016-12-24	Mid-Flood	SR4a	14:20	Surface	1	1	21.3	7.78	28.4	8.02	6.34	8.7
TMCLKL	HY/2012/07	2016-12-24	Mid-Flood	SR4a	14:20	Surface	1	2	21.4	7.82	28.3	8.06	6.38	8.8
TMCLKL	HY/2012/07	2016-12-24	Mid-Flood	SR4a	14:20	Middle	2	1						
TMCLKL	HY/2012/07	2016-12-24	Mid-Flood	SR4a	14:20	Middle	2	2						
TMCLKL	HY/2012/07	2016-12-24	Mid-Flood	SR4a	14:20	Bottom	3	1	21.5	7.64	28.4	8.24	6.66	9.3
TMCLKL	HY/2012/07	2016-12-24	Mid-Flood	SR4a	14:20	Bottom	3	2	21.4	7.68	28.5	8.21	6.68	9.4

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2016-12-24	Mid-Flood	SR4	14:38	Surface	1	1	21.2	7.82	28	7.87	6.5	9
TMCLKL	HY/2012/07	2016-12-24	Mid-Flood	SR4	14:38	Surface	1	. 2	21.3	7.85	28.1	7.9	6.53	9
TMCLKL	HY/2012/07	2016-12-24	Mid-Flood	SR4	14:38	Middle	2	1						
TMCLKL	HY/2012/07	2016-12-24	Mid-Flood	SR4	14:38	Middle	2	2						
TMCLKL	HY/2012/07	2016-12-24	Mid-Flood	SR4	14:38	Bottom	3	1	21.3	7.64	28.1	7.79	6.69	9.4
TMCLKL	HY/2012/07	2016-12-24	Mid-Flood	SR4	14:38	Bottom	3	2	21.2	7.61	28.2	7.81	6.73	9.6
TMCLKL	HY/2012/07	2016-12-24	Mid-Flood	IS8	14:56	Surface	1	1	21.4	7.87	28.1	7.8	6.49	9
TMCLKL	HY/2012/07	2016-12-24	Mid-Flood	IS8	14:56	Surface	1	. 2	21.3	7.9	28.2	7.82	6.52	9
TMCLKL	HY/2012/07	2016-12-24	Mid-Flood	IS8	14:56	Middle	2	1						
TMCLKL	HY/2012/07	2016-12-24	Mid-Flood	IS8	14:56	Middle	2	2						
TMCLKL	HY/2012/07	2016-12-24	Mid-Flood	IS8	14:56	Bottom	3	1	21.4	8.02	28.2	7.99	6.75	9.6
TMCLKL	HY/2012/07	2016-12-24	Mid-Flood	IS8	14:56	Bottom	3	2	21.5	7.98	28.3	8.02	6.77	9.6
TMCLKL	HY/2012/07	2016-12-24	Mid-Flood	IS(Mf)16	15:14	Surface	1	1	21.5	7.65	28.3	7.71	6.74	9.3
TMCLKL	HY/2012/07	2016-12-24	Mid-Flood	IS(Mf)16	15:14	Surface	1	. 2	21.4	7.7	28.4	7.73	6.7	9.2
TMCLKL	HY/2012/07	2016-12-24	Mid-Flood	IS(Mf)16	15:14	Middle	2	1	21.6	7.94	28.5	7.84	6.84	9.2
TMCLKL	HY/2012/07	2016-12-24	Mid-Flood	IS(Mf)16	15:14	Middle	2	2	21.7	7.91	28.4	7.8	6.88	9.4
TMCLKL	HY/2012/07	2016-12-24	Mid-Flood	IS(Mf)16	15:14	Bottom	3	1	21.8	7.78	28.5	7.97	6.78	9.3
TMCLKL	HY/2012/07	2016-12-24	Mid-Flood	IS(Mf)16	15:14	Bottom	3	2	21.7	7.83	28.6	8.01	6.81	9.3
TMCLKL	HY/2012/07	2016-12-24	Mid-Flood	IS(Mf)9	15:32	Surface	1	1	21.2	7.94	28.2	7.58	6.34	8.4
TMCLKL	HY/2012/07	2016-12-24	Mid-Flood	IS(Mf)9	15:32	Surface	1	2	21.3	7.96	28.3	7.61	6.38	8.5
TMCLKL	HY/2012/07	2016-12-24	Mid-Flood	IS(Mf)9	15:32	Middle	2	1						
TMCLKL	HY/2012/07	2016-12-24	Mid-Flood	IS(Mf)9	15:32	Middle	2	2						
TMCLKL	HY/2012/07	2016-12-24	Mid-Flood	IS(Mf)9	15:32	Bottom	3	1	21.3	7.7	28.4	7.74	6.72	9.1
TMCLKL	HY/2012/07	2016-12-24	Mid-Flood	IS(Mf)9	15:32	Bottom	3	2	21.4	7.75	28.3	7.78	6.75	9.2
TMCLKL	HY/2012/07	2016-12-24	Mid-Flood	CS(Mf)3	15:52	Surface	1	1	21.3	7.71	28.3	7.77	6.57	8.7
TMCLKL	HY/2012/07	2016-12-24	Mid-Flood	CS(Mf)3	15:52	Surface	1	. 2	21.4	7.73	28.4	7.8	6.59	8.8
TMCLKL	HY/2012/07	2016-12-24	Mid-Flood	CS(Mf)3	15:52	Middle	2	1	21.4	7.89	28.4	7.62	6.81	9.1
TMCLKL	HY/2012/07	2016-12-24	Mid-Flood	CS(Mf)3	15:52	Middle	2	2	21.5	7.91	28.5	7.64	6.84	9.2
TMCLKL	HY/2012/07	2016-12-24	Mid-Flood	CS(Mf)3	15:52	Bottom	3	1	21.5	8.03	28.6		6.65	9.2
TMCLKL	HY/2012/07	2016-12-24	Mid-Flood	CS(Mf)3		Bottom	3	2	21.4	8.07	28.5	8.01	6.67	9.2
TMCLKL	HY/2012/07	2016-12-24		CS(Mf)5		Surface	1	1	20.8	7.66	28	7.96	7.86	10.7
TMCLKL	HY/2012/07	2016-12-24	Mid-Ebb	CS(Mf)5	10:56	Surface	1	2	20.8	7.68	28.1	7.99	7.76	10.6
TMCLKL	HY/2012/07	2016-12-24	Mid-Ebb	CS(Mf)5	10:56	Middle	2	1	20.8	7.64	28.2	8.07	7.8	10.6

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2016-12-24	Mid-Ebb	CS(Mf)5	10:56	Middle	2	2	20.9	7.66	28.1	8.1	7.89	10.7
TMCLKL	HY/2012/07	2016-12-24	Mid-Ebb	CS(Mf)5	10:56	Bottom	3	1	21	7.73	28.4	8.21	7.56	10.4
TMCLKL	HY/2012/07	2016-12-24	Mid-Ebb	CS(Mf)5	10:56	Bottom	3	2	21.1	7.69	28.4	8.18	7.48	10.3
TMCLKL	HY/2012/07	2016-12-24	Mid-Ebb	SR4a	10:34	Surface	1	1	20.8	7.69	28.2	7.88	7.04	9.4
TMCLKL	HY/2012/07	2016-12-24	Mid-Ebb	SR4a	10:34	Surface	1	2	20.9	7.71	28.1	7.91	6.92	9.2
TMCLKL	HY/2012/07	2016-12-24	Mid-Ebb	SR4a	10:34	Middle	2	1						
TMCLKL	HY/2012/07	2016-12-24	Mid-Ebb	SR4a	10:34	Middle	2	2						
TMCLKL	HY/2012/07	2016-12-24	Mid-Ebb	SR4a	10:34	Bottom	3	1	20.9	7.64	28.2	8	7.33	9.9
TMCLKL	HY/2012/07	2016-12-24	Mid-Ebb	SR4a	10:34	Bottom	3	2	20.9	7.66	28.2	7.97	7.24	9.8
TMCLKL	HY/2012/07	2016-12-24	Mid-Ebb	SR4	10:18	Surface	1	1	20.9	7.73	28.1	7.77	6.73	9
TMCLKL	HY/2012/07	2016-12-24	Mid-Ebb	SR4	10:18	Surface	1	2	20.9	7.68	28	7.81	6.81	9.1
TMCLKL	HY/2012/07	2016-12-24	Mid-Ebb	SR4	10:18	Middle	2	1						
TMCLKL	HY/2012/07	2016-12-24	Mid-Ebb	SR4	10:18	Middle	2	2						
TMCLKL	HY/2012/07	2016-12-24	Mid-Ebb	SR4	10:18	Bottom	3	1	20.9	7.75	28.1	7.58	6.97	9.3
TMCLKL	HY/2012/07	2016-12-24	Mid-Ebb	SR4	10:18	Bottom	3	2	20.9	7.69	28.1	7.6	7.03	9.3
TMCLKL	HY/2012/07	2016-12-24	Mid-Ebb	IS8	10:03	Surface	1	1	20.9	7.73	28	7.68	6.75	9
TMCLKL	HY/2012/07	2016-12-24	Mid-Ebb	IS8	10:03	Surface	1	2	21	7.7	28	7.73	6.69	8.9
TMCLKL	HY/2012/07	2016-12-24	Mid-Ebb	IS8	10:03	Middle	2	1						
TMCLKL	HY/2012/07	2016-12-24	Mid-Ebb	IS8	10:03	Middle	2	2						
TMCLKL	HY/2012/07	2016-12-24	Mid-Ebb	IS8	10:03	Bottom	3	1	21.1	7.89	28.1	7.87	6.94	9.4
TMCLKL	HY/2012/07	2016-12-24	Mid-Ebb	IS8	10:03	Bottom	3	2	21.1	7.93	28	7.9	6.99	9.4
TMCLKL	HY/2012/07	2016-12-24	Mid-Ebb	IS(Mf)16	09:42	Surface	1	1	21	7.57	28.1	7.48	6.94	9.2
TMCLKL	HY/2012/07	2016-12-24	Mid-Ebb	IS(Mf)16	09:42	Surface	1	2	21	7.63	28	7.52	6.88	9.2
TMCLKL	HY/2012/07	2016-12-24	Mid-Ebb	IS(Mf)16	09:42	Middle	2	1	21.1	7.84	28.2	7.66	7.03	9.3
TMCLKL	HY/2012/07	2016-12-24	Mid-Ebb	IS(Mf)16	09:42	Middle	2	2	21.1	7.8	28.2	7.6	7	9.3
TMCLKL	HY/2012/07	2016-12-24	Mid-Ebb	IS(Mf)16	09:42	Bottom	3	1	21.3	7.7	28.3	7.81	6.85	9.3
TMCLKL	HY/2012/07	2016-12-24	Mid-Ebb	IS(Mf)16	09:42	Bottom	3	2	21.4	7.73	28.4	7.78	6.77	9.1
TMCLKL	HY/2012/07	2016-12-24	Mid-Ebb	IS(Mf)9	09:23	Surface	1	1	20.8	7.78	27.9	7.4	6.59	8.9
TMCLKL	HY/2012/07	2016-12-24	Mid-Ebb	IS(Mf)9	09:23	Surface	1	2	20.9	7.81	28	7.44	6.64	9
TMCLKL	HY/2012/07	2016-12-24	Mid-Ebb	IS(Mf)9	09:23	Middle	2	1						
TMCLKL	HY/2012/07	2016-12-24	Mid-Ebb	IS(Mf)9	09:23	Middle	2	2						
TMCLKL	HY/2012/07	2016-12-24	Mid-Ebb	IS(Mf)9	09:23	Bottom	3	1	20.9	7.66	28.2	7.52	6.93	9.4
TMCLKL	HY/2012/07	2016-12-24	Mid-Ebb	IS(Mf)9	09:23	Bottom	3	2	21	7.7	28.2	7.56	6.85	9.4

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2016-12-24	Mid-Ebb	CS(Mf)3	09:00	Surface	1	1	20.8	7.63	28.1	7.59	6.76	9.1
TMCLKL	HY/2012/07	2016-12-24	Mid-Ebb	CS(Mf)3	09:00	Surface	1	2	20.9	7.67	28.1	7.61	6.69	9
TMCLKL	HY/2012/07	2016-12-24	Mid-Ebb	CS(Mf)3	09:00	Middle	2	1	21.1	7.73	28.2	7.48	6.9	9.3
TMCLKL	HY/2012/07	2016-12-24	Mid-Ebb	CS(Mf)3	09:00	Middle	2	2	21.2	7.75	28.3	7.52	6.97	9.4
TMCLKL	HY/2012/07	2016-12-24	Mid-Ebb	CS(Mf)3	09:00	Bottom	3	1	21.3	7.84	28.4	7.73	6.49	8.8
TMCLKL	HY/2012/07	2016-12-24	Mid-Ebb	CS(Mf)3	09:00	Bottom	3	2	21.4	7.91	28.5	7.77	6.56	9
TMCLKL	HY/2012/07	2016-12-27	Mid-Flood	CS(Mf)5	15:35	Surface	1	1	21.2	7.92	28	8.26	7.04	9.6
TMCLKL	HY/2012/07	2016-12-27	Mid-Flood	CS(Mf)5	15:35	Surface	1	2	21.1	7.94	28.1	8.29	7.07	9.6
TMCLKL	HY/2012/07	2016-12-27	Mid-Flood	CS(Mf)5	15:35	Middle	2	1	21.3	8.05	28.2	8.34	7.13	9.7
TMCLKL	HY/2012/07	2016-12-27	Mid-Flood	CS(Mf)5	15:35	Middle	2	2	21.3	8.07	28.2	8.37	7.16	9.7
TMCLKL	HY/2012/07	2016-12-27	Mid-Flood	CS(Mf)5	15:35	Bottom	3	1	21.4	8.14	28.3	8.44	7.33	10.3
TMCLKL	HY/2012/07	2016-12-27	Mid-Flood	CS(Mf)5	15:35	Bottom	3	2	21.3	8.17	28.4	8.47	7.35	10.3
TMCLKL	HY/2012/07	2016-12-27	Mid-Flood	SR4a	15:57	Surface	1	1	21.2	8.05	28.1	8.14	6.4	8.8
TMCLKL	HY/2012/07	2016-12-27	Mid-Flood	SR4a	15:57	Surface	1	2	21.2	8.07	28.1	8.12	6.43	8.9
TMCLKL	HY/2012/07	2016-12-27	Mid-Flood	SR4a	15:57	Middle	2	1						
TMCLKL	HY/2012/07	2016-12-27	Mid-Flood	SR4a	15:57	Middle	2	2						
TMCLKL	HY/2012/07	2016-12-27	Mid-Flood	SR4a	15:57	Bottom	3	1	21.3	8.14	28.3	8.29	6.59	9.2
TMCLKL	HY/2012/07	2016-12-27	Mid-Flood	SR4a	15:57	Bottom	3	2	21.4	8.12	28.2	8.31	6.61	9.3
TMCLKL	HY/2012/07	2016-12-27	Mid-Flood	SR4	16:19	Surface	1	1	21.2	8.03	28.1	8.15	7.15	9.9
TMCLKL	HY/2012/07	2016-12-27	Mid-Flood	SR4	16:19	Surface	1	2	21.2	8.06	28	8.18	7.17	9.9
TMCLKL	HY/2012/07	2016-12-27	Mid-Flood	SR4	16:19	Middle	2	1						
TMCLKL	HY/2012/07	2016-12-27	Mid-Flood	SR4	16:19	Middle	2	2						
TMCLKL	HY/2012/07	2016-12-27	Mid-Flood	SR4	16:19	Bottom	3	1	21.4	8.14	28.2	8.36	7.34	10.3
TMCLKL	HY/2012/07	2016-12-27	Mid-Flood	SR4	16:19	Bottom	3	2	21.3	8.17	28.3	8.39	7.37	10.5
TMCLKL	HY/2012/07	2016-12-27	Mid-Flood	IS8	16:41	Surface	1	1	21.1	7.92	27.9	8.07	7.24	10
TMCLKL	HY/2012/07	2016-12-27	Mid-Flood	IS8	16:41	Surface	1	2	21.2	7.94	28	8.09	7.26	10
TMCLKL	HY/2012/07	2016-12-27	Mid-Flood	IS8	16:41	Middle	2	1						
TMCLKL	HY/2012/07	2016-12-27	Mid-Flood	IS8	16:41	Middle	2	2						
TMCLKL	HY/2012/07	2016-12-27	Mid-Flood	IS8	16:41	Bottom	3	1	21.3	8.1	28.1	8.2	7.4	10.5
TMCLKL	HY/2012/07	2016-12-27	Mid-Flood	IS8	16:41	Bottom	3	2	21.3	8.13	28.2	8.22	7.43	10.6
TMCLKL	HY/2012/07	2016-12-27	Mid-Flood	IS(Mf)16	17:04	Surface	1	1	21.2	7.83	28.1	7.99	7.04	9.7
TMCLKL	HY/2012/07	2016-12-27	Mid-Flood	IS(Mf)16	17:04	Surface	1	2	21.1	7.8	28.1	8.01	7.07	9.8
TMCLKL	HY/2012/07	2016-12-27	Mid-Flood	IS(Mf)16	17:04	Middle	2	1	21.3	8.14	28.2	8.09	7.14	9.6

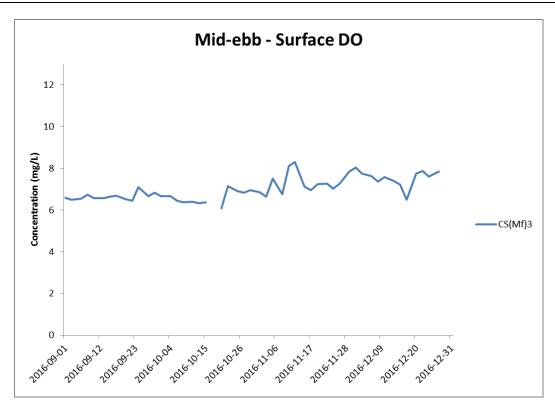
Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2016-12-27	Mid-Flood	IS(Mf)16	17:04	Middle	2	2	21.3	8.16	28.3	8.11	7.17	9.8
TMCLKL	HY/2012/07	2016-12-27	Mid-Flood	IS(Mf)16	17:04	Bottom	3	1	21.4	7.99	28.4	8.32	7.34	10.1
TMCLKL	HY/2012/07	2016-12-27	Mid-Flood	IS(Mf)16	17:04	Bottom	3	2	21.3	7.97	28.4	8.3	7.38	10.1
TMCLKL	HY/2012/07	2016-12-27	Mid-Flood	IS(Mf)9	17:26	Surface	1	1	21.1	7.93	28.1	7.95	7.3	9.7
TMCLKL	HY/2012/07	2016-12-27	Mid-Flood	IS(Mf)9	17:26	Surface	1	2	21.2	7.96	28.1	7.97	7.33	9.7
TMCLKL	HY/2012/07	2016-12-27	Mid-Flood	IS(Mf)9	17:26	Middle	2	. 1						
TMCLKL	HY/2012/07	2016-12-27	Mid-Flood	IS(Mf)9	17:26	Middle	2	2						
TMCLKL	HY/2012/07	2016-12-27	Mid-Flood	IS(Mf)9	17:26	Bottom	3	1	21.3	8.14	28.2	8.14	7.44	10.1
TMCLKL	HY/2012/07	2016-12-27	Mid-Flood	IS(Mf)9	17:26	Bottom	3	2	21.4	8.17	28.3	8.16	7.47	10.2
TMCLKL	HY/2012/07	2016-12-27	Mid-Flood	CS(Mf)3	17:45	Surface	1	1	21.2	8.14	27.9	8.24	6.97	9.3
TMCLKL	HY/2012/07	2016-12-27	Mid-Flood	CS(Mf)3	17:45	Surface	1	2	21.2	8.12	28	8.27	6.99	9.3
TMCLKL	HY/2012/07	2016-12-27	Mid-Flood	CS(Mf)3	17:45	Middle	2	1	21.3	7.92	28.1	8.39	7.15	9.6
TMCLKL	HY/2012/07	2016-12-27	Mid-Flood	CS(Mf)3	17:45	Middle	2	2	21.4	7.94	28.2	8.41	7.17	9.7
TMCLKL	HY/2012/07	2016-12-27	Mid-Flood	CS(Mf)3	17:45	Bottom	3	1	21.5	8.04	28.3	8.55	7.34	10.2
TMCLKL	HY/2012/07	2016-12-27	Mid-Flood	CS(Mf)3	17:45	Bottom	3	2	21.5	8.07	28.3	8.53	7.36	10.2
TMCLKL	HY/2012/07	2016-12-27	Mid-Ebb	CS(Mf)5	13:35	Surface	1	1	21.2	7.77	28.1	8.11	7.44	10.1
TMCLKL	HY/2012/07	2016-12-27	Mid-Ebb	CS(Mf)5	13:35	Surface	1	2	21.3	7.81	28.2	8.16	7.41	10.1
TMCLKL	HY/2012/07	2016-12-27	Mid-Ebb	CS(Mf)5	13:35	Middle	2	1	21.4	8.1	28.2	8.24	7.5	10.2
TMCLKL	HY/2012/07	2016-12-27	Mid-Ebb	CS(Mf)5	13:35	Middle	2	2	21.3	8.06	28.3	8.28	7.53	10.2
TMCLKL	HY/2012/07	2016-12-27	Mid-Ebb	CS(Mf)5	13:35	Bottom	3	1	21.5	7.95	28.3	8.35	7.33	10.1
TMCLKL	HY/2012/07	2016-12-27	Mid-Ebb	CS(Mf)5	13:35	Bottom	3	2	21.6	7.99	28.4	8.39	7.36	10.2
TMCLKL	HY/2012/07	2016-12-27	Mid-Ebb	SR4a	13:11	Surface	1	1	21.3	7.84	27.9	8.08	6.25	8.3
TMCLKL	HY/2012/07	2016-12-27		SR4a	13:11	Surface	1	2	21.4	7.88	28	8.12	6.29	8.4
TMCLKL	HY/2012/07	2016-12-27	Mid-Ebb	SR4a	13:11	Middle	2							
TMCLKL	HY/2012/07	2016-12-27	Mid-Ebb	SR4a	13:11	Middle	2	2						
	HY/2012/07	2016-12-27		SR4a		Bottom	3		21.5		28.1	8.3	6.57	8.9
	HY/2012/07	2016-12-27		SR4a		Bottom	3	2	21.4	7.74	28		6.59	8.9
TMCLKL	HY/2012/07	2016-12-27	Mid-Ebb	SR4	12:49	Surface	1	1	21.4	7.88	28		6.41	8.5
TMCLKL	HY/2012/07	2016-12-27	Mid-Ebb	SR4	12:49	Surface	1	2	21.4	7.91	27.9	7.96	6.44	8.6
TMCLKL	HY/2012/07	2016-12-27		SR4	12:49	Middle	2							
	HY/2012/07	2016-12-27	Mid-Ebb	SR4	12:49	Middle	2	2						
	HY/2012/07	2016-12-27		SR4		Bottom	3		21.4		28.1	7.85	6.6	8.8
TMCLKL	HY/2012/07	2016-12-27	Mid-Ebb	SR4	12:49	Bottom	3	2	21.5	7.67	28.2	7.87	6.64	8.8

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2016-12-27	Mid-Ebb	IS8	12:27	Surface	1	1	21.4	7.93	28.1	7.86	6.4	8.5
TMCLKL	HY/2012/07	2016-12-27	Mid-Ebb	IS8	12:27	Surface	1	2	21.5	7.96	28.2	7.88	6.43	8.6
TMCLKL	HY/2012/07	2016-12-27	Mid-Ebb	IS8	12:27	Middle	2	2 1						
TMCLKL	HY/2012/07	2016-12-27	Mid-Ebb	IS8	12:27	Middle	2	2 2						
TMCLKL	HY/2012/07	2016-12-27	Mid-Ebb	IS8	12:27	Bottom	9	3	21.5	8.08	28.3	8.05	6.66	9
TMCLKL	HY/2012/07	2016-12-27	Mid-Ebb	IS8	12:27	Bottom	3	3	21.6	8.04	28.2	8.08	6.68	9
TMCLKL	HY/2012/07	2016-12-27	Mid-Ebb	IS(Mf)16	12:05	Surface	1	1	21.5	7.71	28.1	7.77	6.65	8.8
TMCLKL	HY/2012/07	2016-12-27	Mid-Ebb	IS(Mf)16	12:05	Surface	1	2	21.4	7.76	28	7.79	6.61	8.8
TMCLKL	HY/2012/07	2016-12-27	Mid-Ebb	IS(Mf)16	12:05	Middle	2	2 1	21.6	8	28.2	7.9	6.75	9
TMCLKL	HY/2012/07	2016-12-27	Mid-Ebb	IS(Mf)16	12:05	Middle	2	2 2	21.7	7.97	28.3	7.86	6.79	9
TMCLKL	HY/2012/07	2016-12-27	Mid-Ebb	IS(Mf)16	12:05	Bottom	3	1	21.9	7.84	28.4	8.03	6.69	9.1
TMCLKL	HY/2012/07	2016-12-27	Mid-Ebb	IS(Mf)16	12:05	Bottom		3	21.9	7.89	28.5	8.07	6.72	9
TMCLKL	HY/2012/07	2016-12-27	Mid-Ebb	IS(Mf)9	11:43	Surface	1	1	21.5	8	28	7.64	6.25	8.4
TMCLKL	HY/2012/07	2016-12-27	Mid-Ebb	IS(Mf)9	11:43	Surface	1	2	21.6	8.02	28.1	7.67	6.29	8.5
TMCLKL	HY/2012/07	2016-12-27	Mid-Ebb	IS(Mf)9	11:43	Middle	2	2 1						
TMCLKL	HY/2012/07	2016-12-27	Mid-Ebb	IS(Mf)9	11:43	Middle	2	2 2						
TMCLKL	HY/2012/07	2016-12-27	Mid-Ebb	IS(Mf)9	11:43	Bottom	3	3	21.7	7.76	28.3	7.8	6.63	9
TMCLKL	HY/2012/07	2016-12-27	Mid-Ebb	IS(Mf)9	11:43	Bottom	3	3	21.6	7.81	28.2	7.84	6.66	9.1
TMCLKL	HY/2012/07	2016-12-27	Mid-Ebb	CS(Mf)3	11:21	Surface	1	1	21.4	7.77	28.1	7.83	6.48	8.7
TMCLKL	HY/2012/07	2016-12-27	Mid-Ebb	CS(Mf)3	11:21	Surface	1	2	21.5	7.79	28.2	7.86	6.5	8.8
TMCLKL	HY/2012/07	2016-12-27	Mid-Ebb	CS(Mf)3	11:21	Middle	2	2 1	21.6	7.95	28.3	7.68	6.72	9.1
TMCLKL	HY/2012/07	2016-12-27	Mid-Ebb	CS(Mf)3	11:21	Middle	2	2 2	21.5	7.97	28.4	7.7	6.75	9.1
TMCLKL	HY/2012/07	2016-12-27	Mid-Ebb	CS(Mf)3	11:21	Bottom	3	1	21.6	8.09	28.5	8.04	6.56	8.9
TMCLKL	HY/2012/07	2016-12-27	Mid-Ebb	CS(Mf)3	11:21	Bottom	3	3	21.7	8.13	28.6	8.07	6.58	9
TMCLKL	HY/2012/07	2016-12-29	Mid-Flood	CS(Mf)5	07:40	Surface		1	20.7	7.58	28.1	8.01	7.79	10.6
	HY/2012/07	2016-12-29	Mid-Flood	CS(Mf)5	07:40	Surface	1	2	20.7	7.61	28		7.83	10.6
TMCLKL	HY/2012/07	2016-12-29	Mid-Flood	CS(Mf)5	07:40	Middle	2	2 1	20.8	7.73	28.2	8.11	7.84	10.7
TMCLKL	HY/2012/07	2016-12-29	Mid-Flood	CS(Mf)5	07:40	Middle	2	2 2	20.7	7.71	28.2	8.09	7.91	10.8
TMCLKL	HY/2012/07	2016-12-29	Mid-Flood	CS(Mf)5	07:40	Bottom	3	1	20.8	7.65	28.2	8.19	7.67	10.7
TMCLKL	HY/2012/07	2016-12-29	Mid-Flood	CS(Mf)5	07:40	Bottom	3	3 2	20.9	7.69	28.3	8.22	7.61	10.7
TMCLKL	HY/2012/07	2016-12-29	Mid-Flood	SR4a	08:03	Surface		1	20.8	7.72	28.1	8.07	6.99	9.5
	HY/2012/07	2016-12-29	Mid-Flood	SR4a		Surface	1	2	20.7	7.76	28.1	8.05	6.91	9.6
TMCLKL	HY/2012/07	2016-12-29	Mid-Flood	SR4a	08:03	Middle	2	2 1						

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2016-12-29	Mid-Flood	SR4a	08:03	Middle	2	2						
TMCLKL	HY/2012/07	2016-12-29	Mid-Flood	SR4a	08:03	Bottom	3	1	20.8	7.68	28.1	8.13	7.23	10
TMCLKL	HY/2012/07	2016-12-29	Mid-Flood	SR4a	08:03	Bottom	3	2	20.8	7.74	28.2	8.09	7.29	10.2
TMCLKL	HY/2012/07	2016-12-29	Mid-Flood	SR4	08:17	Surface	1	1	20.8	7.78	28.1	8.1	6.91	9.5
TMCLKL	HY/2012/07	2016-12-29	Mid-Flood	SR4	08:17	Surface	1	2	20.9	7.82	28.1	7.97	6.99	9.6
TMCLKL	HY/2012/07	2016-12-29	Mid-Flood	SR4	08:17	Middle	2	1						
TMCLKL	HY/2012/07	2016-12-29	Mid-Flood	SR4	08:17	Middle	2	2						
TMCLKL	HY/2012/07	2016-12-29	Mid-Flood	SR4	08:17	Bottom	3	1	20.9	7.79	28.1	7.71	7.11	10
TMCLKL	HY/2012/07	2016-12-29	Mid-Flood	SR4	08:17	Bottom	3	2	20.9	7.71	28.2	7.8	7.16	10.2
TMCLKL	HY/2012/07	2016-12-29	Mid-Flood	IS8	08:31	Surface	1	1	20.9	7.78	28.1	7.89	6.81	9.4
TMCLKL	HY/2012/07	2016-12-29	Mid-Flood	IS8	08:31	Surface	1	2	20.8	7.74	28	7.85	6.77	9.3
TMCLKL	HY/2012/07	2016-12-29	Mid-Flood	IS8	08:31	Middle	2	1						
TMCLKL	HY/2012/07	2016-12-29	Mid-Flood	IS8	08:31	Middle	2	2						
TMCLKL	HY/2012/07	2016-12-29	Mid-Flood	IS8	08:31	Bottom	3	1	20.9	7.94	28	8.02	7.13	10.1
TMCLKL	HY/2012/07	2016-12-29	Mid-Flood	IS8	08:31	Bottom	3	2	20.9	7.99	28	8.06	7.1	10.1
TMCLKL	HY/2012/07	2016-12-29	Mid-Flood	IS(Mf)16	08:45	Surface	1	1	20.9	7.68	28.1	7.67	7.13	9.8
TMCLKL	HY/2012/07	2016-12-29	Mid-Flood	IS(Mf)16	08:45	Surface	1	2	21	7.61	28.1	7.7	7.09	9.8
TMCLKL	HY/2012/07	2016-12-29	Mid-Flood	IS(Mf)16	08:45	Middle	2	1	20.9	7.78	28.1	7.82	7.18	9.7
TMCLKL	HY/2012/07	2016-12-29	Mid-Flood	IS(Mf)16	08:45	Middle	2	2	20.9	7.82	28.2	7.77	7.11	9.7
TMCLKL	HY/2012/07	2016-12-29	Mid-Flood	IS(Mf)16	08:45	Bottom	3	1	21.1	7.71	28.3	7.88	7.09	9.7
TMCLKL	HY/2012/07	2016-12-29	Mid-Flood	IS(Mf)16	08:45	Bottom	3	2	21	7.69	28.2	7.91	7.03	9.6
TMCLKL	HY/2012/07	2016-12-29	Mid-Flood	IS(Mf)9	09:03	Surface	1	1	20.9	7.77	28	7.61	6.72	8.9
TMCLKL	HY/2012/07	2016-12-29	Mid-Flood	IS(Mf)9	09:03	Surface	1	2	20.9	7.83	28.1	7.57	6.67	8.9
TMCLKL	HY/2012/07	2016-12-29	Mid-Flood	IS(Mf)9	09:03	Middle	2	1						
TMCLKL	HY/2012/07	2016-12-29	Mid-Flood	IS(Mf)9	09:03	Middle	2	2						
TMCLKL	HY/2012/07	2016-12-29	Mid-Flood	IS(Mf)9	09:03	Bottom	3	1	20.9	7.59	28.1	7.77	7.01	9.5
TMCLKL	HY/2012/07	2016-12-29	Mid-Flood	IS(Mf)9	09:03	Bottom	3	2	21	7.66	28.1	7.8	6.93	9.4
TMCLKL	HY/2012/07	2016-12-29	Mid-Flood	CS(Mf)3	09:24	Surface	1	1	20.9	7.61	28.1	7.78	6.88	9.2
TMCLKL	HY/2012/07	2016-12-29	Mid-Flood	CS(Mf)3	09:24	Surface	1	2	21	7.66	28.2	7.81	6.85	9.1
TMCLKL	HY/2012/07	2016-12-29	Mid-Flood	CS(Mf)3	09:24	Middle	2	1	21	7.76	28.1	7.65	6.99	9.4
TMCLKL	HY/2012/07	2016-12-29	Mid-Flood	CS(Mf)3		Middle	2	2	21.1	7.81	28.1	7.67	7.03	9.5
TMCLKL	HY/2012/07	2016-12-29	Mid-Flood	CS(Mf)3	09:24	Bottom	3	1	21.2	7.93			6.66	9.3
TMCLKL	HY/2012/07	2016-12-29	Mid-Flood	CS(Mf)3	09:24	Bottom	3	2	21.1	7.97	28.1	7.92	6.72	9.3

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2016-12-29	Mid-Ebb	CS(Mf)5	13:34	Surface	1	. 1	20.9	7.69	28	7.95	7.41	10.1
TMCLKL	HY/2012/07	2016-12-29	Mid-Ebb	CS(Mf)5	13:34	Surface	1	. 2	20.8	7.72	27.9	7.96	7.47	10.2
TMCLKL	HY/2012/07	2016-12-29	Mid-Ebb	CS(Mf)5	13:34	Middle	2	2	21	7.88	28.2	8.17	7.23	9.8
TMCLKL	HY/2012/07	2016-12-29	Mid-Ebb	CS(Mf)5	13:34	Middle	2	2	21.1	7.86	28.1	8.15	7.18	9.8
TMCLKL	HY/2012/07	2016-12-29	Mid-Ebb	CS(Mf)5	13:34	Bottom	3	1	21.1	7.74	28.4	8.03	7.59	10.5
TMCLKL	HY/2012/07	2016-12-29	Mid-Ebb	CS(Mf)5	13:34	Bottom	3	3	21.2	7.76	28.3	8.07	7.63	10.5
TMCLKL	HY/2012/07	2016-12-29	Mid-Ebb	SR4a	13:11	Surface	1	. 1	20.8	7.87	27.9	8.11	7.03	9.3
TMCLKL	HY/2012/07	2016-12-29	Mid-Ebb	SR4a	13:11	Surface	1	. 2	20.7	7.85	27.8	8.13	7.11	9.5
TMCLKL	HY/2012/07	2016-12-29	Mid-Ebb	SR4a	13:11	Middle	2	2						
TMCLKL	HY/2012/07	2016-12-29	Mid-Ebb	SR4a	13:11	Middle	2	2						
TMCLKL	HY/2012/07	2016-12-29	Mid-Ebb	SR4a	13:11	Bottom	3	1	20.9	7.72	28	7.91	7.36	9.9
TMCLKL	HY/2012/07	2016-12-29	Mid-Ebb	SR4a	13:11	Bottom	3	3	20.8	7.76	28	7.87	7.24	9.8
TMCLKL	HY/2012/07	2016-12-29	Mid-Ebb	SR4	12:54	Surface	1	. 1	20.7	7.82	28	7.87	7.12	9.5
TMCLKL	HY/2012/07	2016-12-29	Mid-Ebb	SR4	12:54	Surface	1	. 2	20.8	7.84	27.9	7.89	7.18	9.5
TMCLKL	HY/2012/07	2016-12-29	Mid-Ebb	SR4	12:54	Middle	2	2						
TMCLKL	HY/2012/07	2016-12-29	Mid-Ebb	SR4	12:54	Middle	2	2						
TMCLKL	HY/2012/07	2016-12-29	Mid-Ebb	SR4	12:54	Bottom	3	1	20.8	7.72	28.1	7.71	7.23	9.6
TMCLKL	HY/2012/07	2016-12-29	Mid-Ebb	SR4	12:54	Bottom	3	3	20.8	7.73	28	7.69	7.29	9.7
TMCLKL	HY/2012/07	2016-12-29	Mid-Ebb	IS8	11:37	Surface	1	. 1	20.8	7.76	28	7.79	7.05	9.4
TMCLKL	HY/2012/07	2016-12-29	Mid-Ebb	IS8	11:37	Surface	1	. 2	20.8	7.72	28.1	7.81	7.09	9.4
TMCLKL	HY/2012/07	2016-12-29	Mid-Ebb	IS8	11:37	Middle	2	2						
TMCLKL	HY/2012/07	2016-12-29	Mid-Ebb	IS8	11:37	Middle	2	2						
TMCLKL	HY/2012/07	2016-12-29	Mid-Ebb	IS8	11:37	Bottom	3	1	20.9	7.83	28.2	8.12	7.34	9.9
TMCLKL	HY/2012/07	2016-12-29	Mid-Ebb	IS8	11:37	Bottom	3	3	20.8	7.87	28.1	8.09	7.25	9.8
TMCLKL	HY/2012/07	2016-12-29	Mid-Ebb	IS(Mf)16	12:18	Surface	1	. 1	20.9		28.1	7.64	7.24	9.6
TMCLKL	HY/2012/07	2016-12-29	Mid-Ebb	IS(Mf)16	12:18	Surface	1	. 2	20.8		28		7.19	9.6
TMCLKL	HY/2012/07	2016-12-29	Mid-Ebb	IS(Mf)16	12:18	Middle	2	2 1	21	7.71	28.3	7.81	7.15	9.5
TMCLKL	HY/2012/07	2016-12-29	Mid-Ebb	IS(Mf)16	12:18	Middle	2	2	20.9	7.72	28.2	7.83	7.11	9.5
TMCLKL	HY/2012/07	2016-12-29	Mid-Ebb	IS(Mf)16	12:18	Bottom	3	1	21	7.85	28.3	7.96	7.38	10
TMCLKL	HY/2012/07	2016-12-29	Mid-Ebb	IS(Mf)16	12:18	Bottom	3	3	21.1	7.81	28.4	7.93	7.31	9.8
TMCLKL	HY/2012/07	2016-12-29	Mid-Ebb	IS(Mf)9	11:59	Surface	1	. 1	20.8	7.79	27.9	7.74	6.89	9.3
	HY/2012/07	2016-12-29	Mid-Ebb	IS(Mf)9	11:59	Surface	1	. 2	20.7	7.81	28	7.71	6.81	9.2
TMCLKL	HY/2012/07	2016-12-29	Mid-Ebb	IS(Mf)9	11:59	Middle	2	1						

Project	Works	Date (yyyy-mm-dd)	Tide	Stat	Start Time	Level	Lev_Cod	Replicate	Temp_v	pH_v	Sal_v	DO_v	Turb_v	SS_v
TMCLKL	HY/2012/07	2016-12-29	Mid-Ebb	IS(Mf)9	11:59	Middle	2	2						
TMCLKL	HY/2012/07	2016-12-29	Mid-Ebb	IS(Mf)9	11:59	Bottom	3	1	20.9	7.71	28.1	7.67	7.07	9.6
TMCLKL	HY/2012/07	2016-12-29	Mid-Ebb	IS(Mf)9	11:59	Bottom	3	2	20.9	7.67	28.2	7.64	7.12	9.8
TMCLKL	HY/2012/07	2016-12-29	Mid-Ebb	CS(Mf)3	11:33	Surface	1	1	20.8	7.71	28.1	7.84	7.38	10
TMCLKL	HY/2012/07	2016-12-29	Mid-Ebb	CS(Mf)3	11:33	Surface	1	2	20.7	7.74	28	7.81	7.44	10
TMCLKL	HY/2012/07	2016-12-29	Mid-Ebb	CS(Mf)3	11:33	Middle	2	1	20.6	7.83	28.2	7.69	7.27	9.8
TMCLKL	HY/2012/07	2016-12-29	Mid-Ebb	CS(Mf)3	11:33	Middle	2	2	20.7	7.85	28.1	7.67	7.21	9.7
TMCLKL	HY/2012/07	2016-12-29	Mid-Ebb	CS(Mf)3	11:33	Bottom	3	1	20.8	7.76	28.4	7.74	7.68	10.4
TMCLKL	HY/2012/07	2016-12-29	Mid-Ebb	CS(Mf)3	11:33	Bottom	3	2	20.9	7.79	28.3	7.76	7.61	10.4



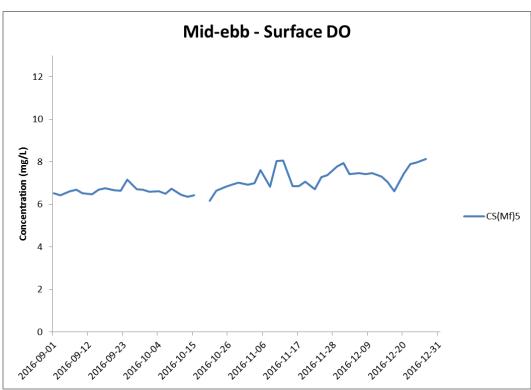
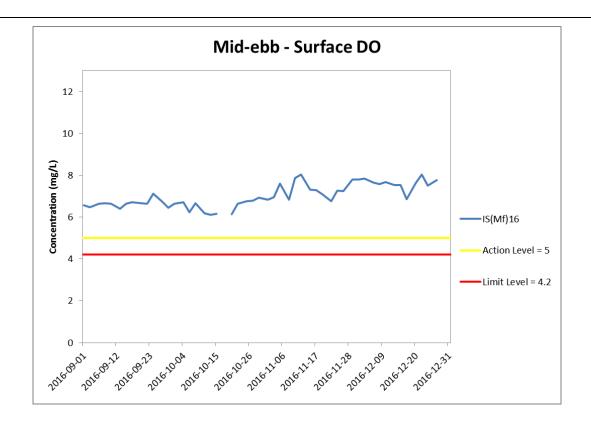


Figure J1 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in surface waters during mid-ebb tide between 1 September and 31 December 2016 at CS(Mf)3 and CS(Mf)5.





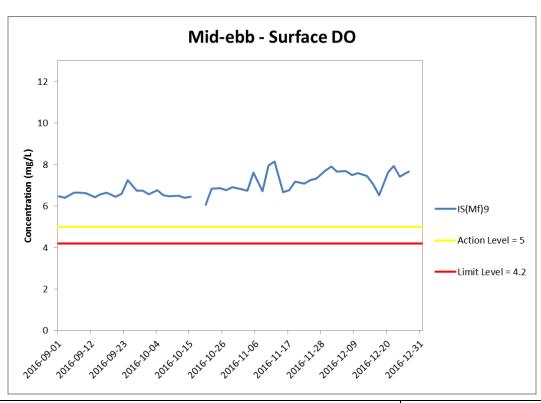
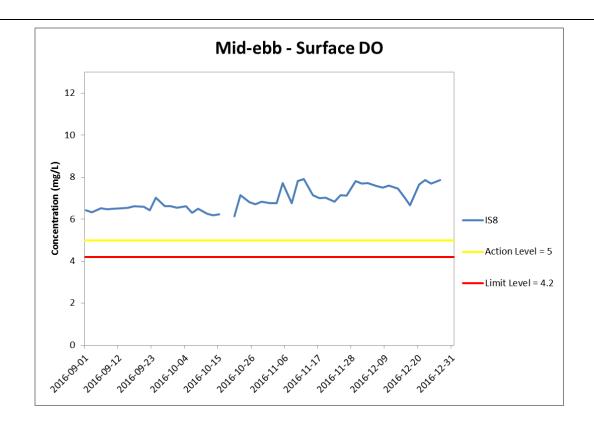


Figure J2 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in surface waters during mid-ebb tide between 1 September and 31 December 2016 at IS(Mf)16 and IS(Mf)9.





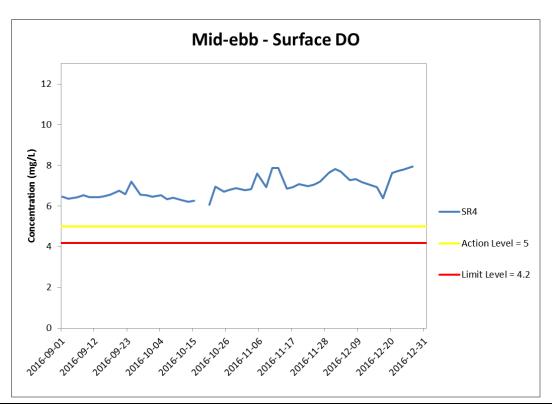


Figure J3 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in surface waters during mid-ebb tide between 1 September and 31 December 2016 at IS8 and SR4.



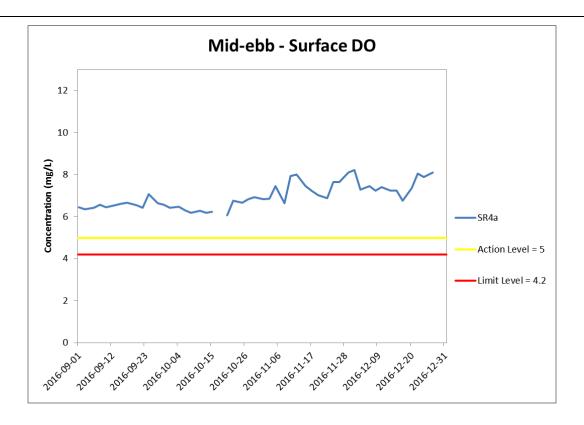
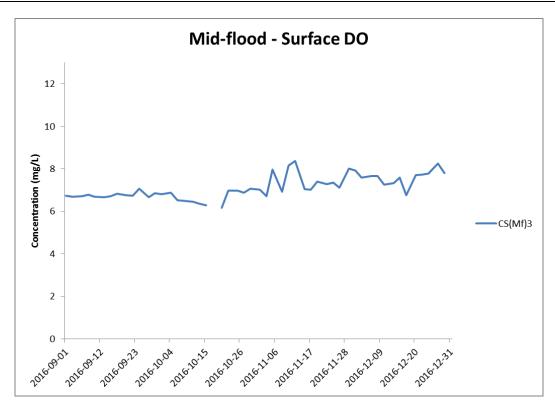


Figure J4 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in surface waters during mid-ebb tide between 1 September and 31 December 2016 at SR4a.





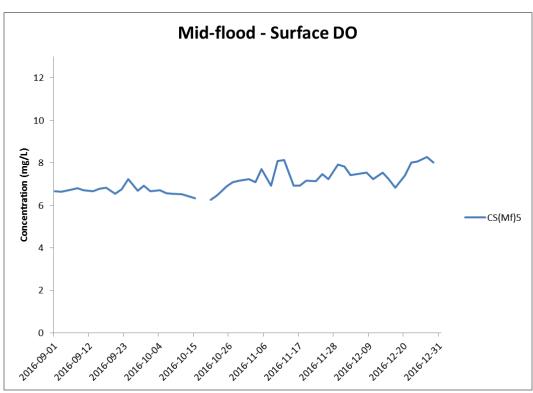
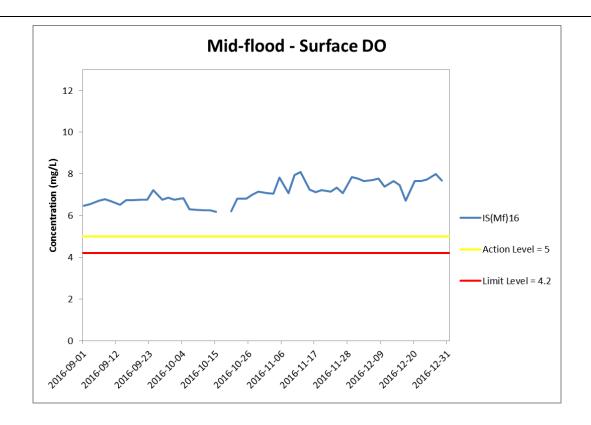


Figure J5 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in surface waters during mid-flood tide between 1 September and 31 December 2016 at CS(Mf)3 and CS(Mf)5.





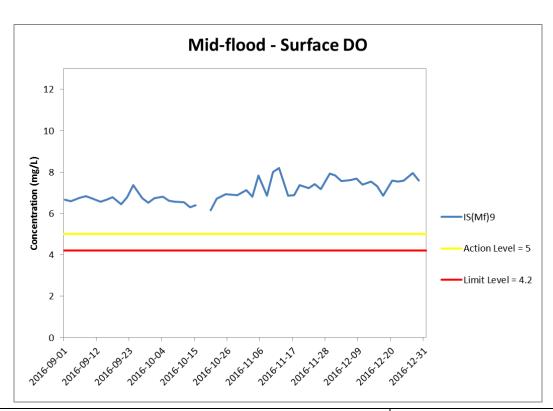
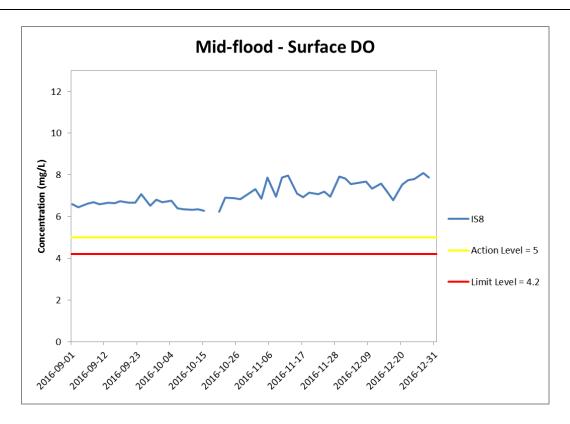


Figure J6 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in surface waters during mid-flood tide between 1 September and 31 December 2016 at IS(Mf)16 and IS(Mf)9.

(Weather condition varied between sunny to rainy within the reporting period.)

Marine works within the reporting period include Uninstallation of marine piling platform; Pier construction; Launching gantry operation; and Installation of deck segment and pier head segment.





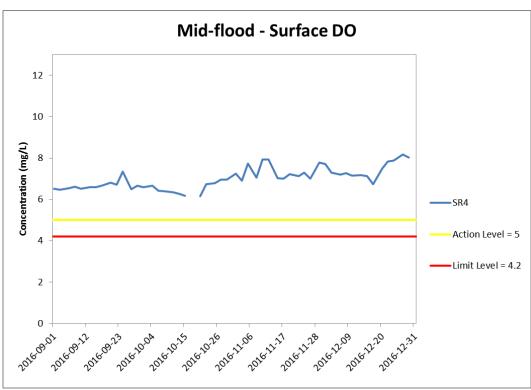


Figure J7 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in surface waters during mid-flood tide between 1 September and 31 December 2016 at IS8 and SR4.



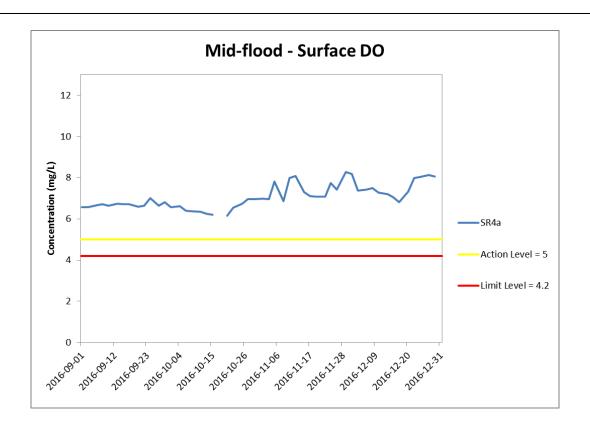
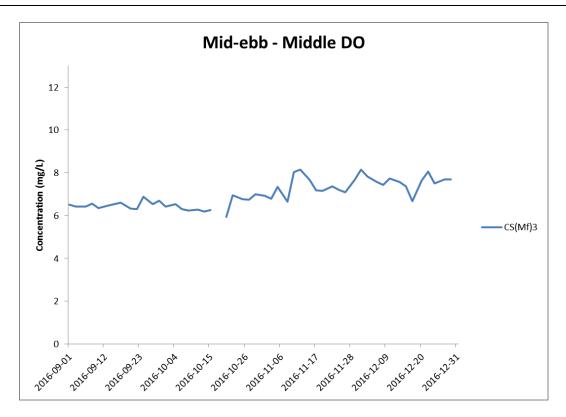


Figure J8 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in surface waters during mid-flood tide between 1 September and 31 December 2016 at SR4a.

(Weather condition varied between sunny to rainy within the reporting period.) Marine works within the reporting period include Uninstallation of marine piling platform; Pier construction; Launching gantry operation; and Installation of deck segment and pier head segment.





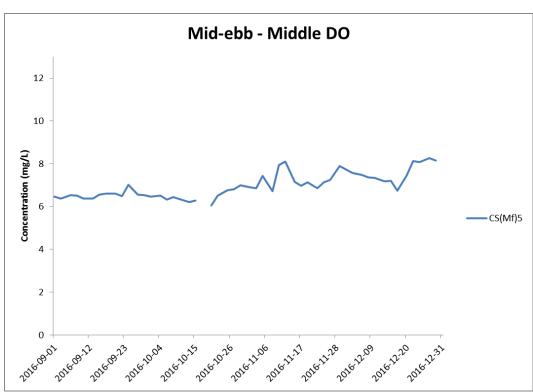


Figure J9 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in mid-depth waters during mid-ebb tide between 1 September and 31 December 2016 at CS(Mf)3 and CS(Mf)5.



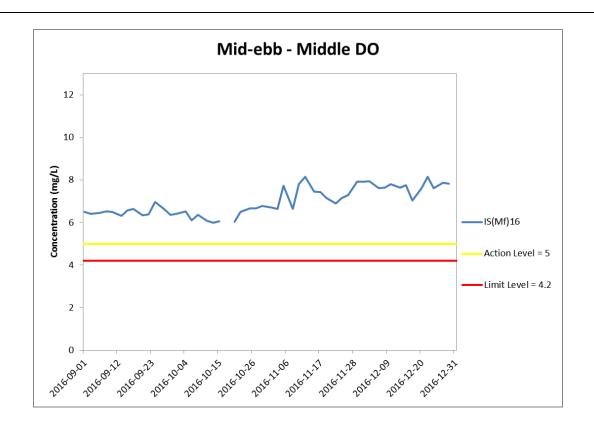
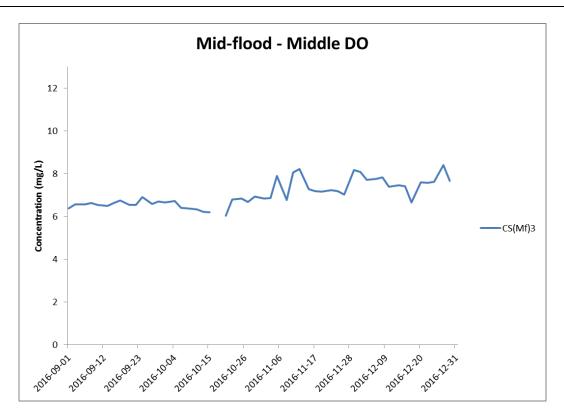


Figure J10 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in mid-depth waters during mid-ebb tide between 1 September and 31 December 2016 at IS(Mf)16.

(Weather condition varied between sunny to rainy within the reporting period.) Marine works within the reporting period include Uninstallation of marine piling platform; Pier construction; Launching gantry operation; and Installation of deck segment and pier head segment.





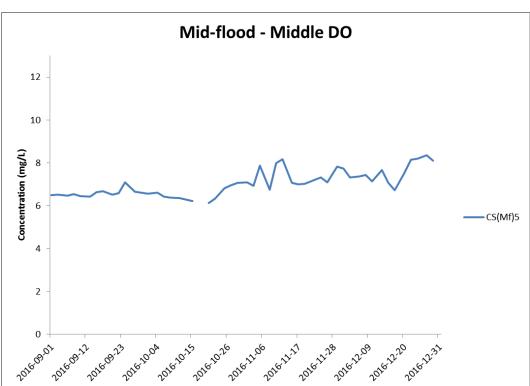


Figure J11 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in mid-depth waters during mid-flood tide between1 September and 31 December 2016 at CS(Mf)3 and CS(Mf)5.



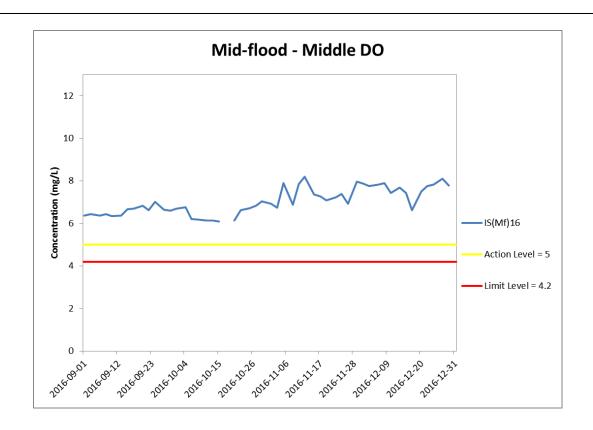
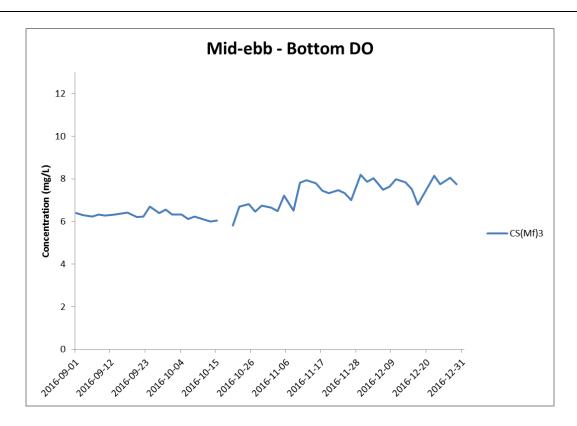


Figure J12 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in mid-depth waters during mid-flood tide between 1 September and 31 December 2016 at IS(Mf)16.

(Weather condition varied between sunny to rainy within the reporting period.) Marine works within the reporting period include Uninstallation of marine piling platform; Pier construction; Launching gantry operation; and Installation of deck segment and pier head segment.





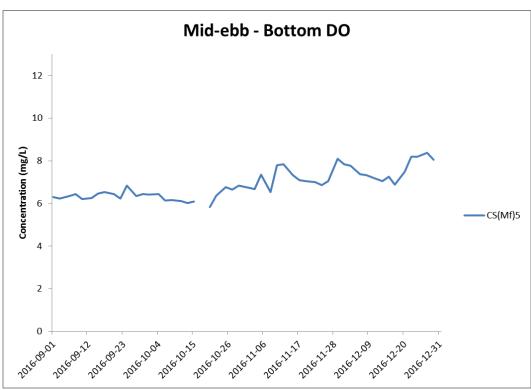
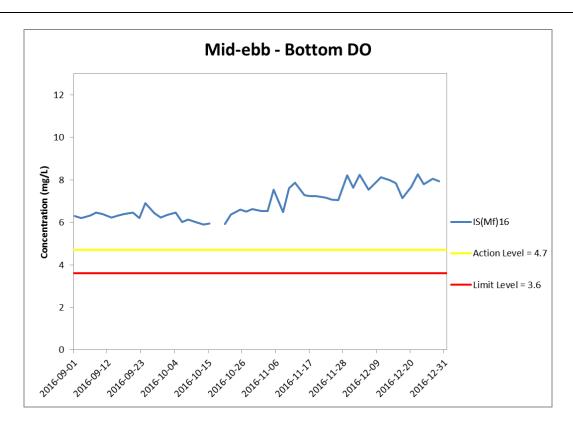


Figure J13 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in bottom waters during mid-ebb tide between 1 September and 31 December 2016 at CS(Mf)3 and CS(Mf)5.





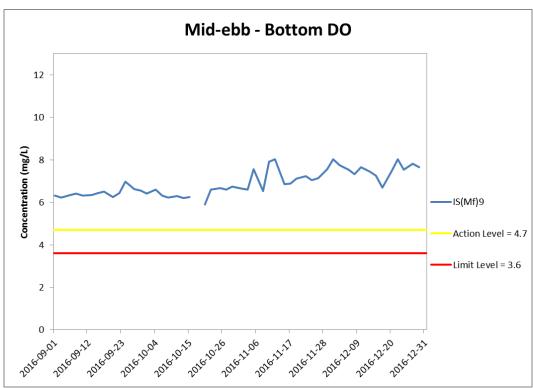
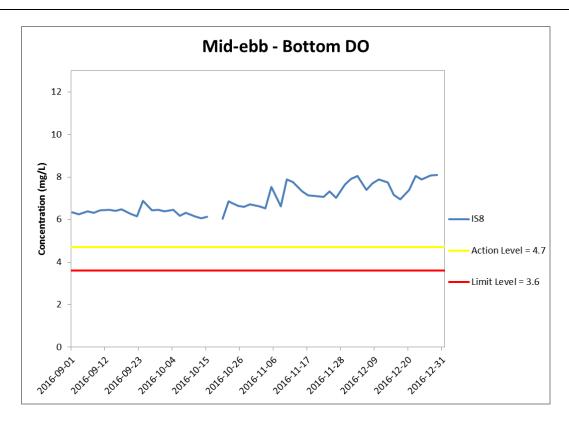


Figure J14 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in bottom waters during mid-ebb tide between 1 September and 31 December 2016 at IS(Mf)16 and IS(Mf)9.





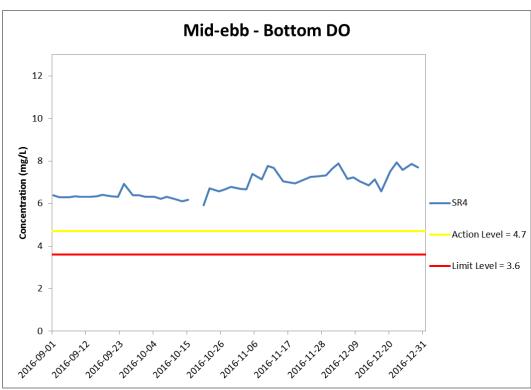


Figure J15 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in bottom waters during mid-ebb tide between 1 September and 31 December 2016 at IS8 and SR4.



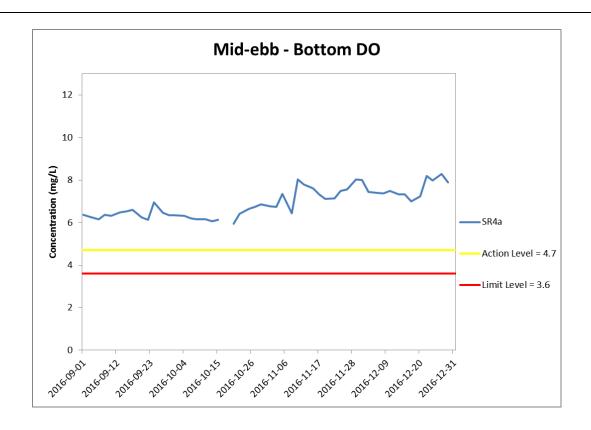
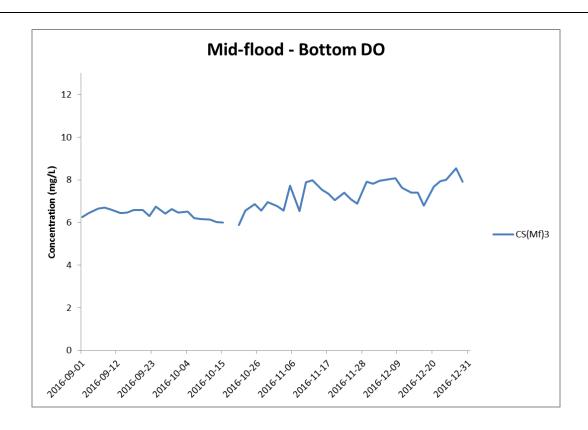


Figure J16 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in bottom waters during mid-ebb tide between 1 September and 31 December 2016 at SR4a.

(Weather condition varied between sunny to rainy within the reporting period.) Marine works within the reporting period include Uninstallation of marine piling platform; Pier construction; Launching gantry operation; and Installation of deck segment and pier head segment.





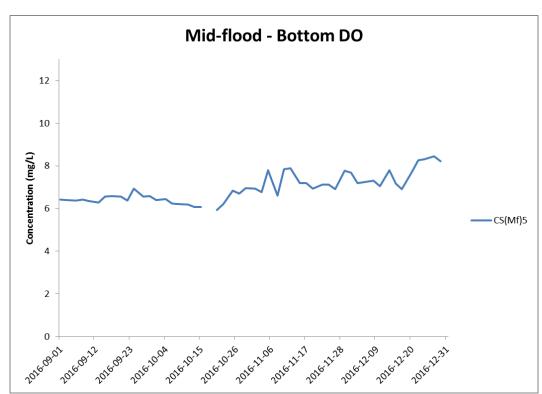
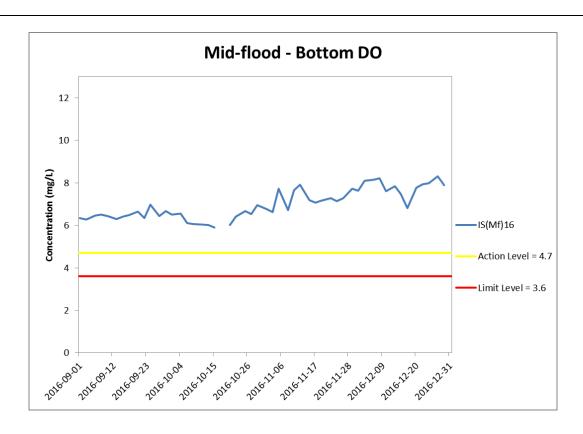


Figure J17 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in bottom waters during mid-flood tide between 1 September and 31 December 2016 at CS(Mf)3 and CS(Mf)5.





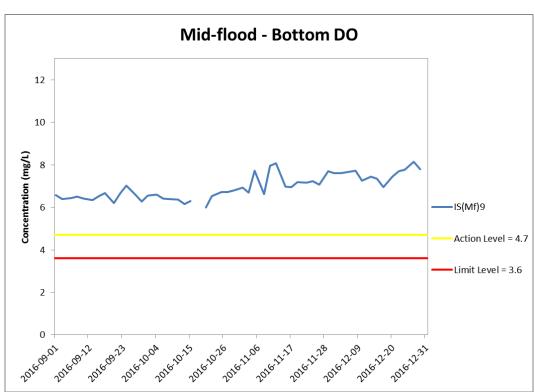
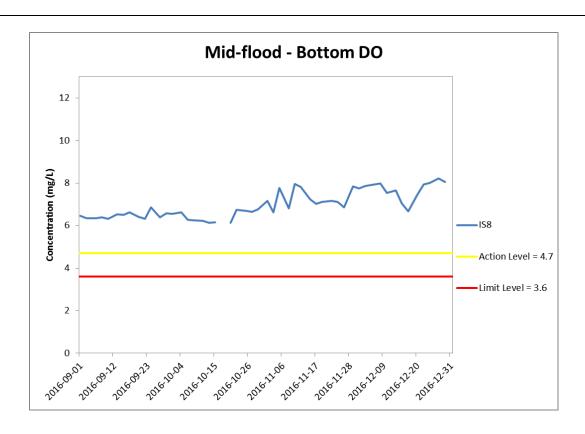


Figure J18 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in bottom waters during mid-flood tide between 1 September and 31 December 2016 at IS(Mf)16 and IS(Mf)9.





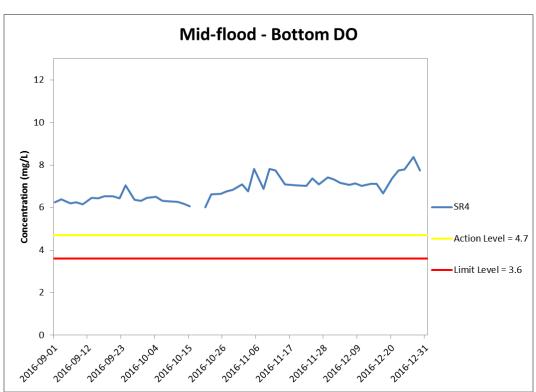


Figure J19 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in bottom waters during mid-flood tide between 1 September and 31 December 2016 at IS8 and SR4.



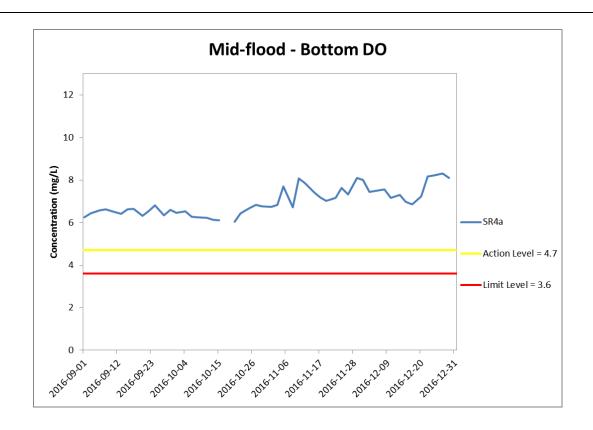
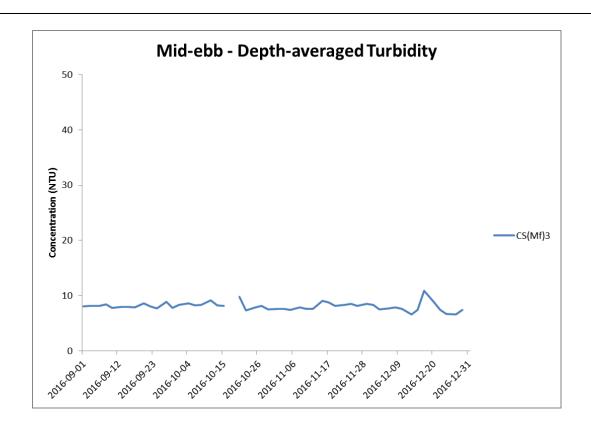


Figure J20 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in bottom waters during mid-flood tide between 1 September and 31 December 2016 at SR4a.

(Weather condition varied between sunny to rainy within the reporting period.) Marine works within the reporting period include Uninstallation of marine piling platform; Pier construction; Launching gantry operation; and Installation of deck segment and pier head segment.





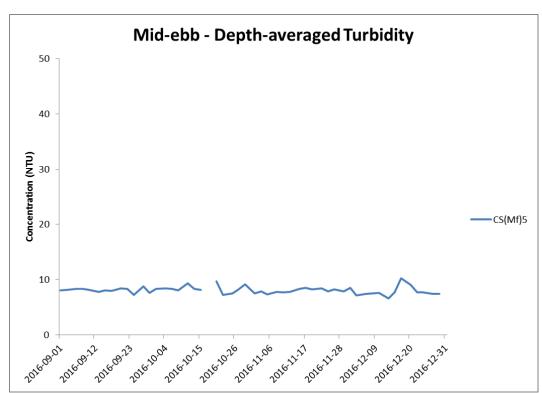
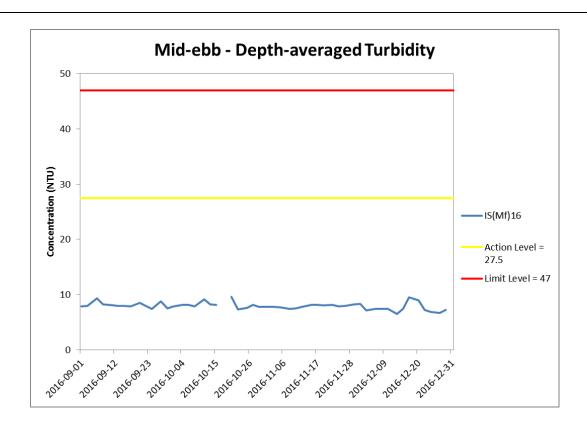


Figure J21 Impact Monitoring – Mean Level of depth-averaged Turbidity (NTU) during mid-ebb tide between 1 September and 31 December 2016 at CS(Mf)3 and CS(Mf)5.





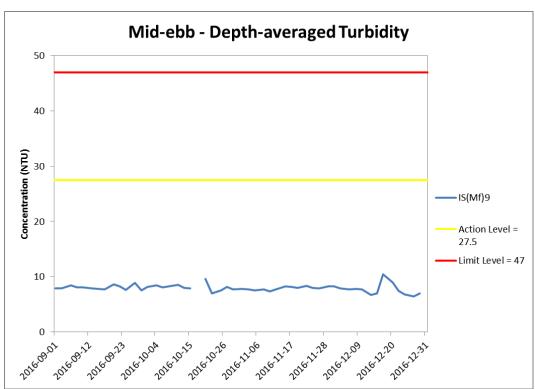
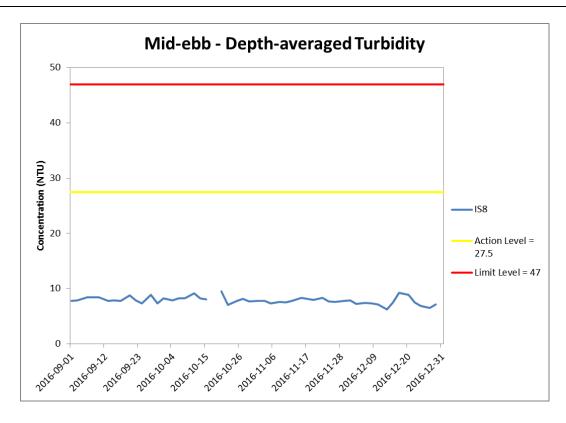


Figure J22 Impact Monitoring – Mean Level of depth-averaged Turbidity (NTU) during mid-ebb tide between September and 31 December 2016 at IS(Mf)16 and IS(Mf)9.





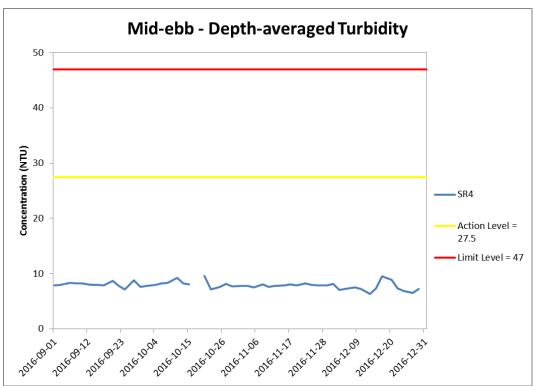


Figure J23 Impact Monitoring – Mean Level of depth-averaged Turbidity (NTU) during mid-ebb tide between 1 September and 31 December 2016 at IS8 and SR4.



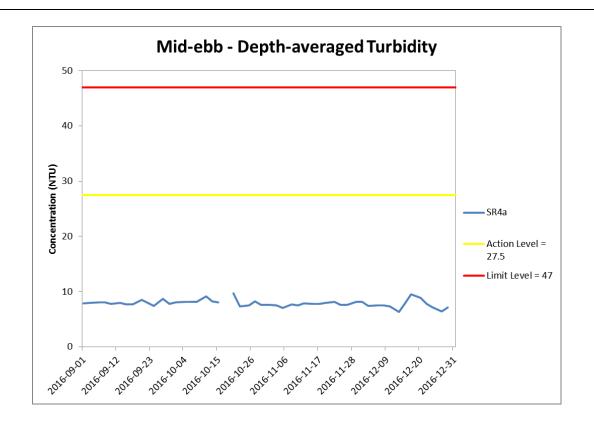
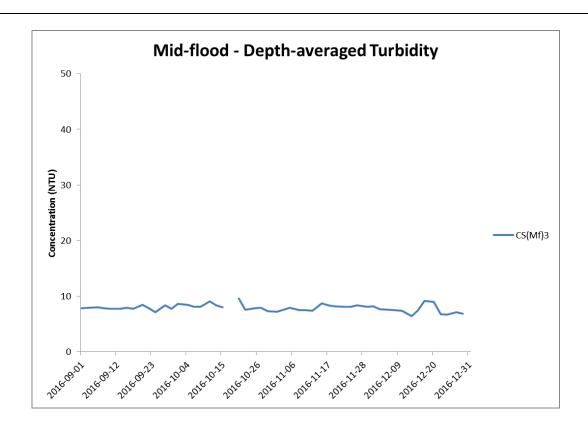


Figure J24 Impact Monitoring – Mean Level of depth-averaged Turbidity (NTU) during mid-ebb tide between September and 31 December 2016 at SR4a.

(Weather condition varied between sunny to rainy within the reporting period.) Marine works within the reporting period include Uninstallation of marine piling platform; Pier construction; Launching gantry operation; and Installation of deck segment and pier head segment.





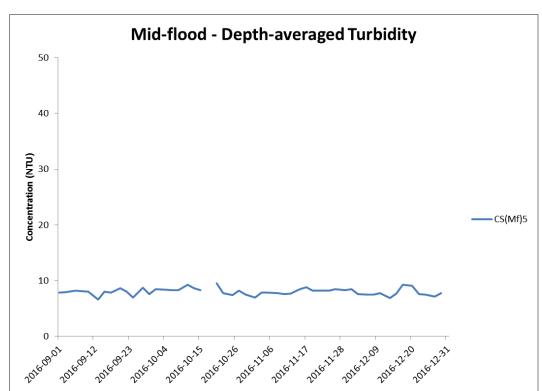
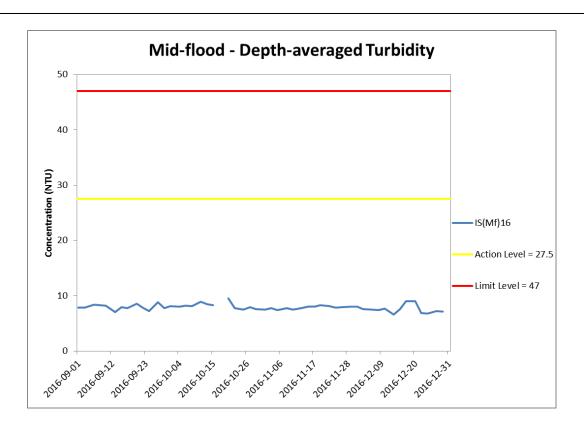


Figure J25 Impact Monitoring – Mean Level of depth-averaged Turbidity (NTU) during mid-flood tide between 1 September and 31 December 2016 at CS(Mf)3 and CS(MF)5.





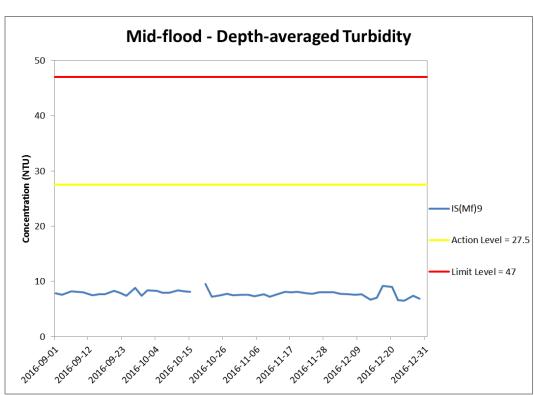
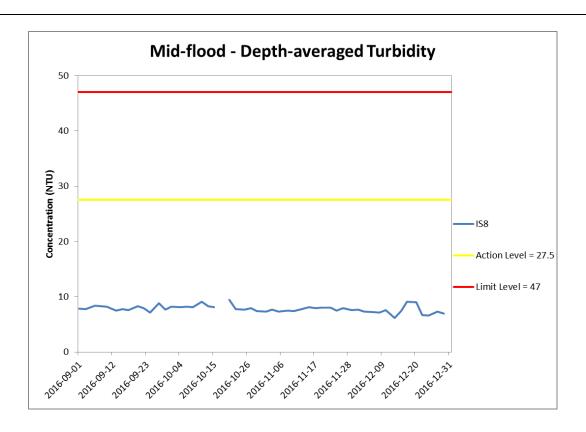
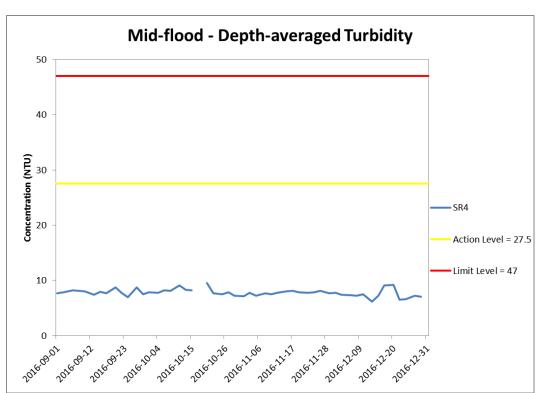


Figure J26 Impact Monitoring – Mean Level of depth-averaged Turbidity (NTU) during mid-flood tide between 1 September and 31 December 2016 at IS(Mf)16 and IS(Mf)9.







`Figure J27 Impact Monitoring - Mean Level of depth-averaged Turbidity (NTU) during mid-flood tide between 1 September and 31 December 2016 at IS8 and SR4.



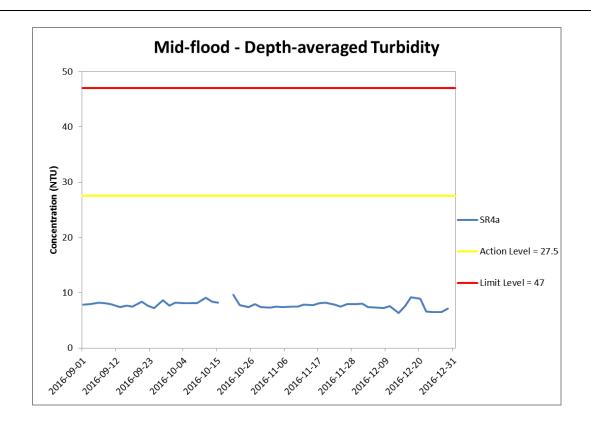
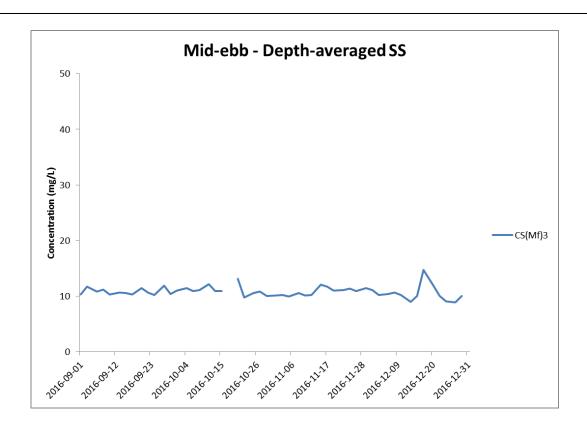


Figure J28 Impact Monitoring - Mean Level of depth-averaged Turbidity (NTU) during mid-flood tide between 1 September and 31 December 2016 at SR4a.

(Weather condition varied between sunny to rainy within the reporting period.) Marine works within the reporting period include Uninstallation of marine piling platform; Pier construction; Launching gantry operation; and Installation of deck segment and pier head segment.





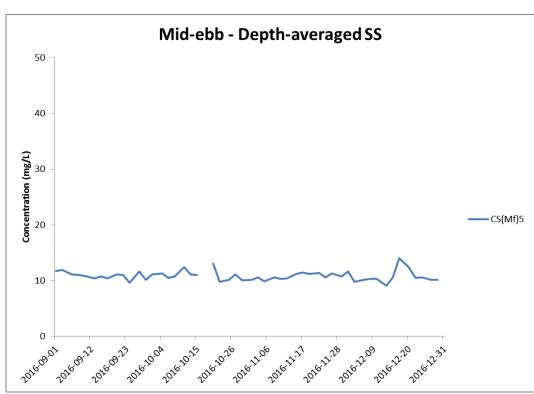
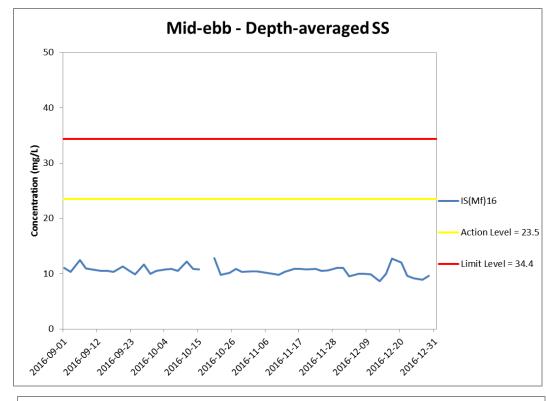


Figure J29 Impact Monitoring - Mean depth-averaged level of Suspended Solids (mg/L) during mid-ebb tide between 1 September and 31 December 2016 at CS(Mf)3 and CS(Mf)5.





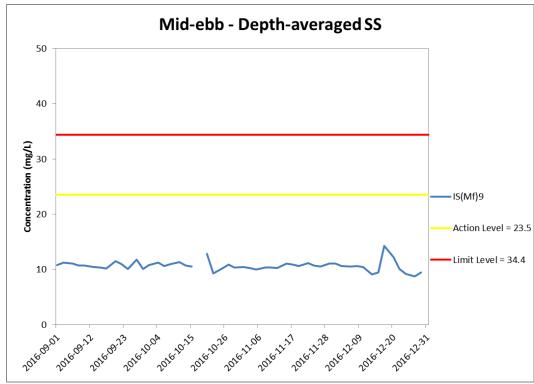
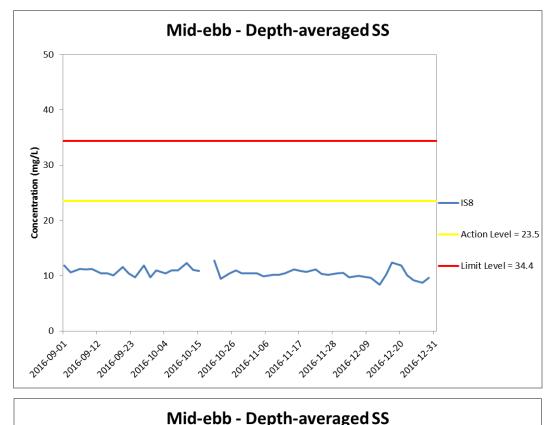


Figure J30 Impact Monitoring - Mean depth-averaged level of Suspended Solids (mg/L) during mid-ebb tide between 1 September and 31 December 2016 at IS(Mf)16 and IS(Mf)9.





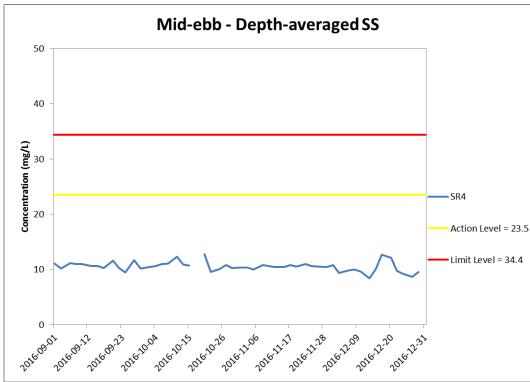


Figure J31 Impact Monitoring - Mean depth-averaged level of Suspended Solids (mg/L) during mid-ebb tide between 1 September and 31 December 2016 at IS8 and SR4.



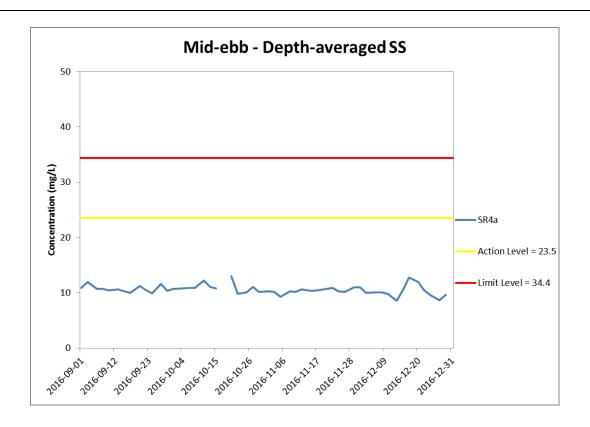
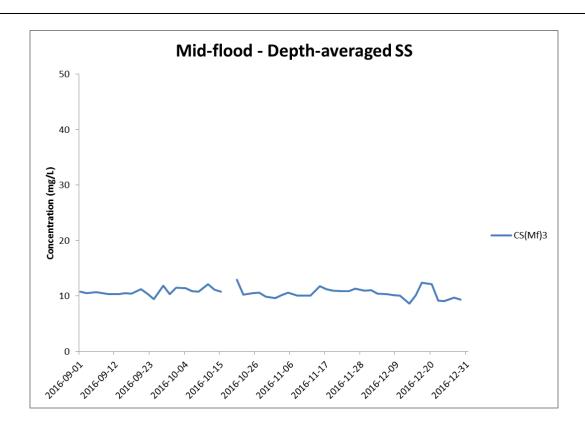


Figure J32 Impact Monitoring – Mean depth-averaged level of Suspended Solids (mg/L) during mid-ebb tide between 1 September and 31 December 2016 at SR4a.

(Weather condition varied between sunny to rainy within the reporting period.) Marine works within the reporting period include Uninstallation of marine piling platform; Pier construction; Launching gantry operation; and Installation of deck segment and pier head segment.





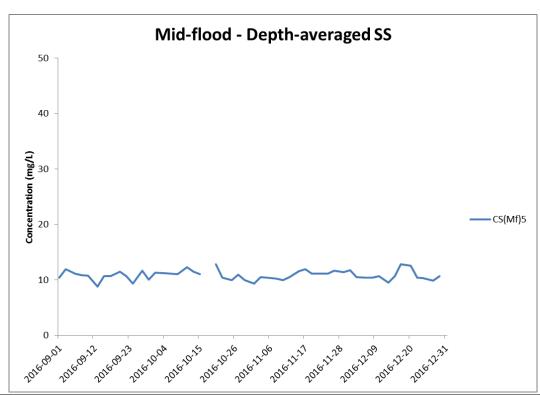
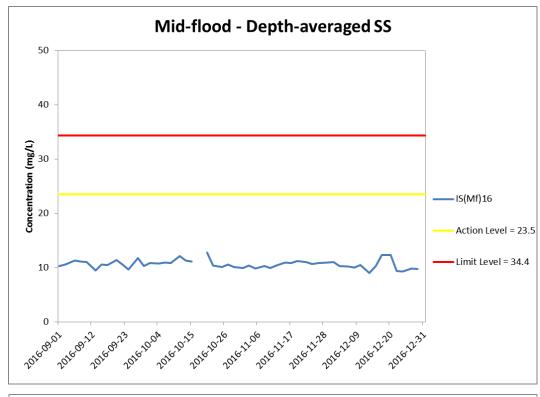


Figure J33 Impact Monitoring - Mean depth-averaged level of Suspended Solids (mg/L) during mid-flood tide between 1 September and 31 December 2016 at CS(Mf)3 and CS(Mf)5.





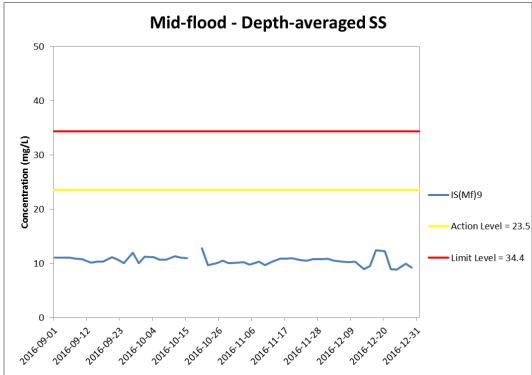
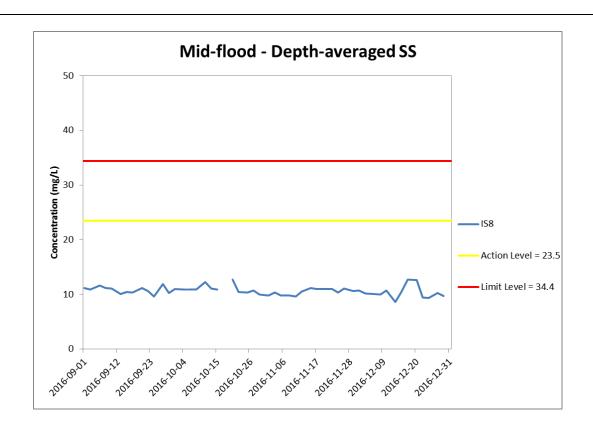


Figure J34 Impact Monitoring – Mean depth-averaged level of Suspended Solids (mg/L) during mid-flood tide between 1 September and 31 December 2016 at IS(Mf)16 and IS(Mf)9.





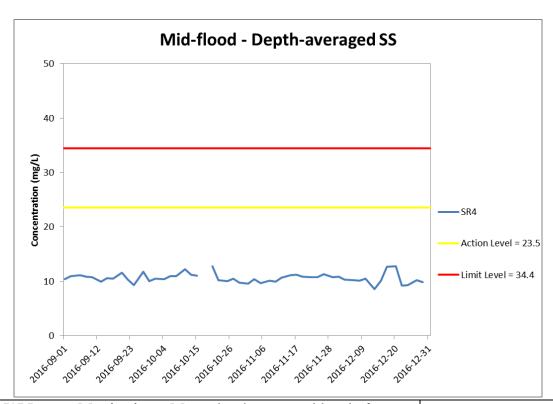


Figure J35 Impact Monitoring - Mean depth-averaged level of Suspended Solids (mg/L) during mid-flood tide between 1 September and 31 December 2016 at IS8 and SR4.



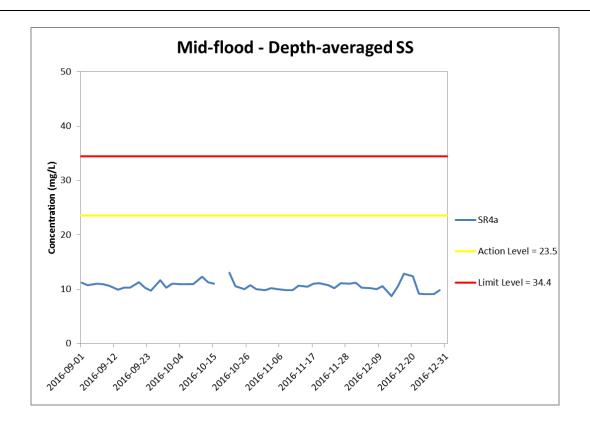


Figure J36 Impact Monitoring – Mean depth-averaged level of Suspended Solids (mg/L) during mid-flood tide between 1 September and 31 December 2016 at SR4a.

(Weather condition varied between sunny to rainy within the reporting period.) Marine works within the reporting period include Uninstallation of marine piling platform; Pier construction; Launching gantry operation; and Installation of deck segment and pier head segment.



## Appendix K

# Impact Dolphin Monitoring Survey Results

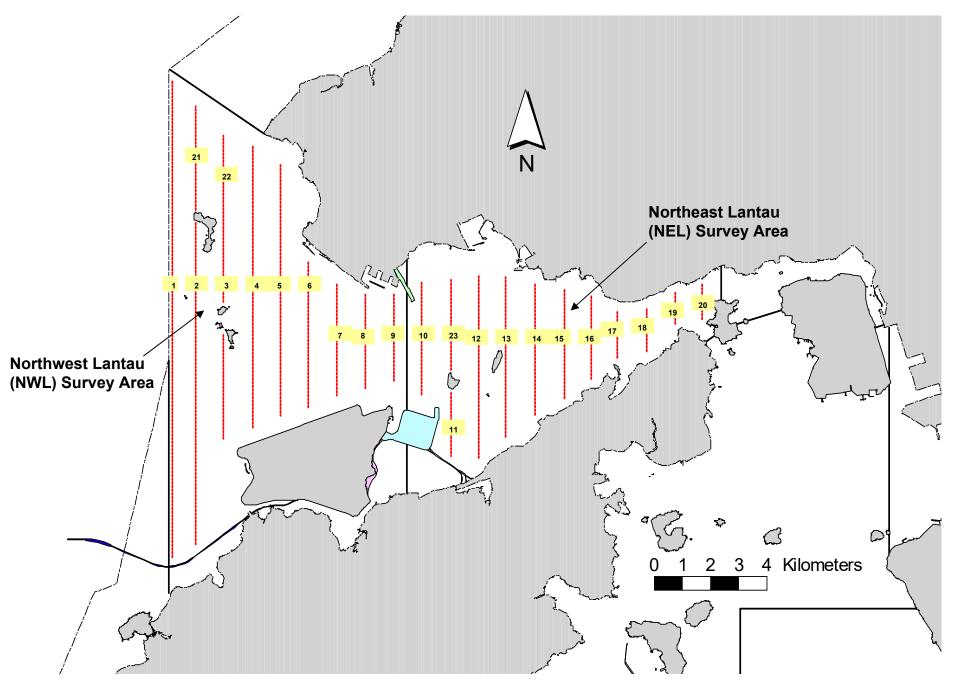


Figure 1. Transect Line Layout in Northwest and Northeast Lantau Survey Areas

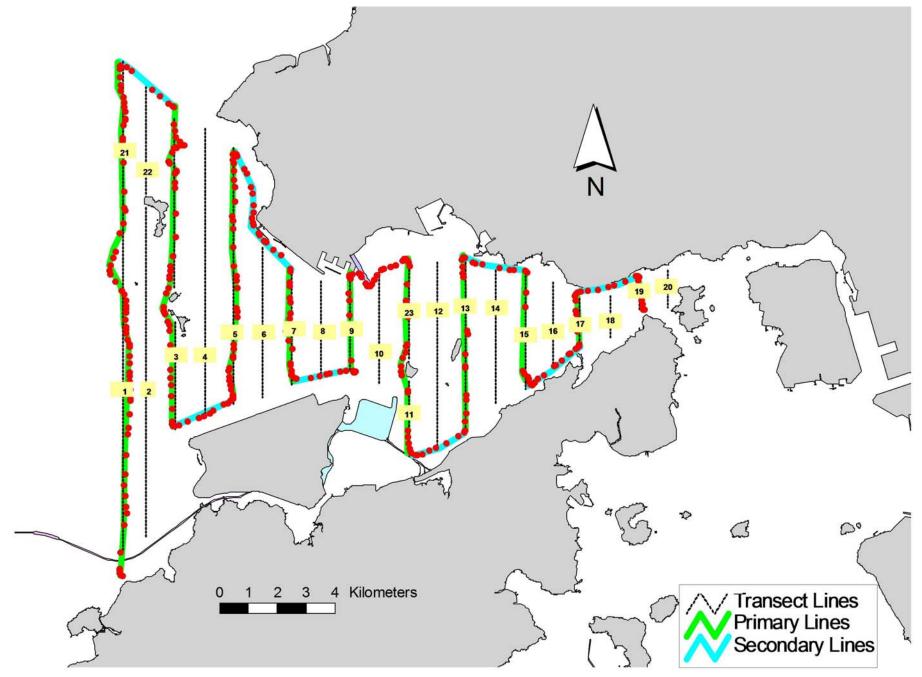


Figure 2. Survey Route on December 1st, 2016 (from HKLR03 project)

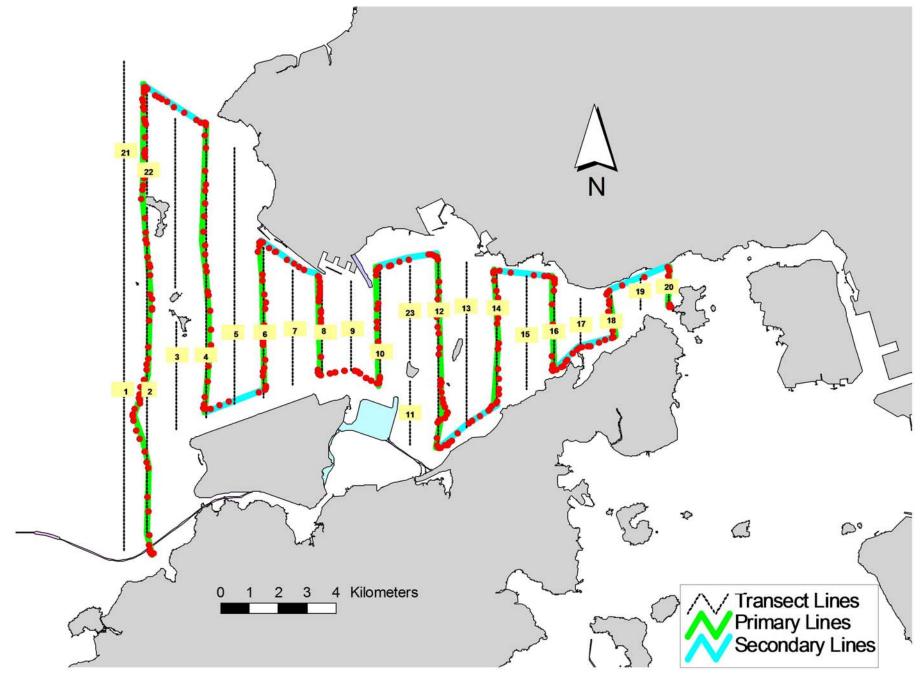


Figure 3. Survey Route on December 6th, 2016 (from HKLR03 project)

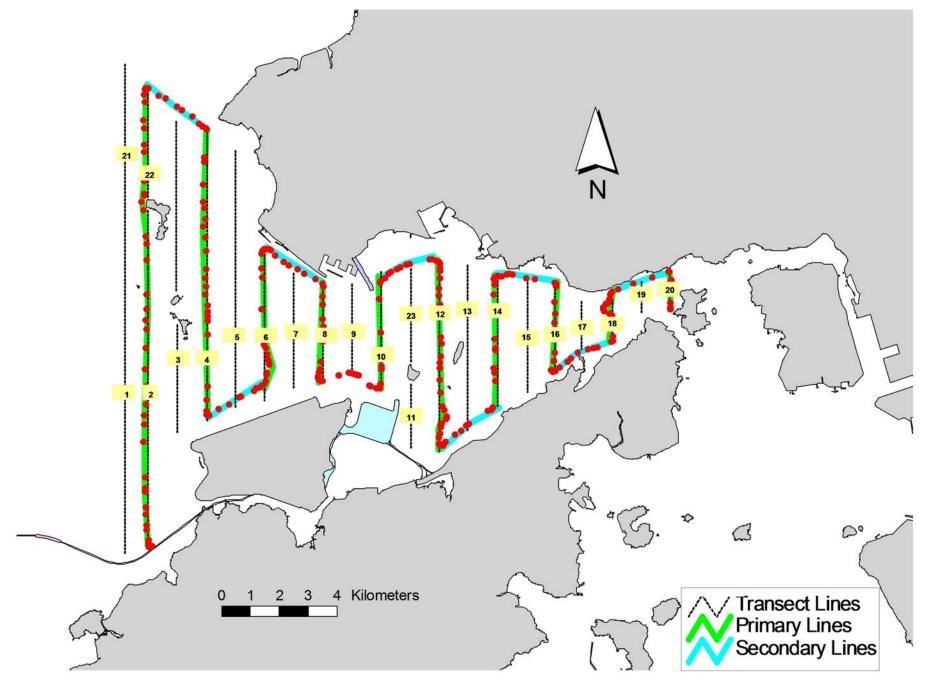


Figure 4. Survey Route on December 16th, 2016 (from HKLR03 project)

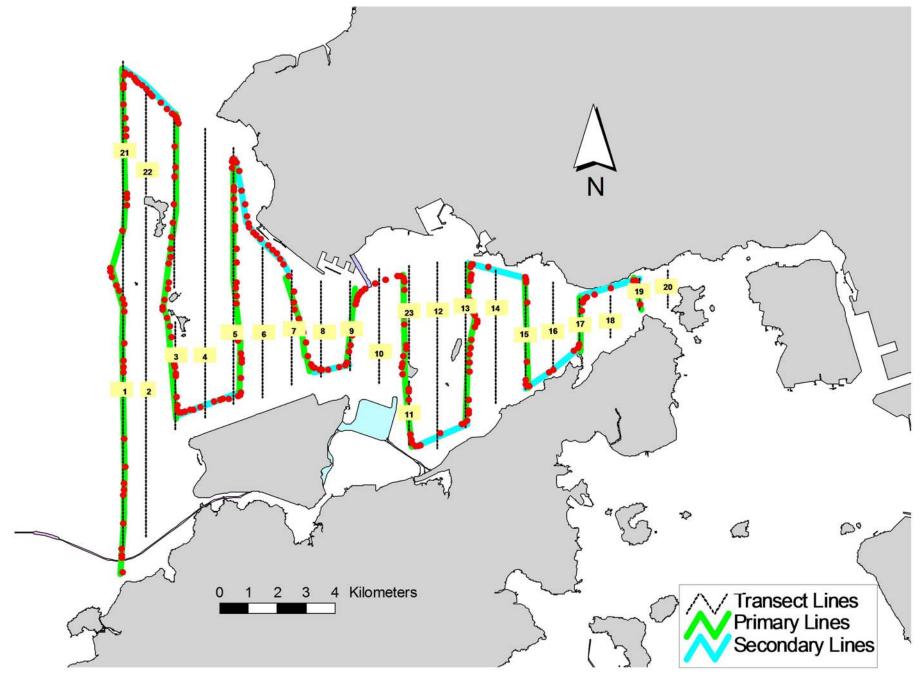


Figure 5. Survey Route on December 19th, 2016 (from HKLR03 project)

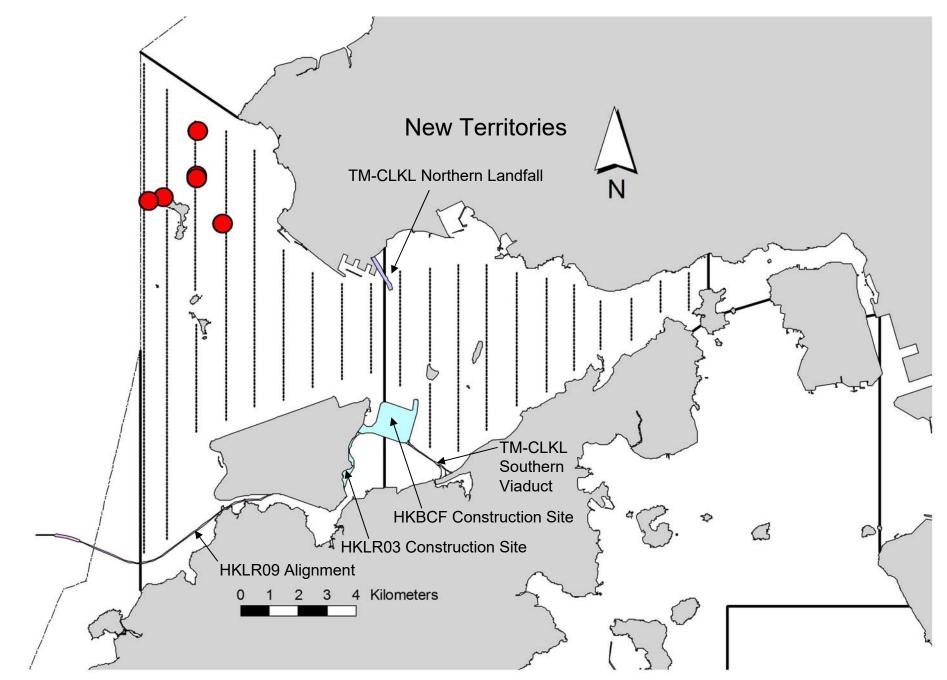


Figure 6. Distribution of Chinese White Dolphin Sightings during December 2016 HKLR03 Monitoring Surveys

## Appendix I. HKLR03 Survey Effort Database (December 2016)

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

DATE	AREA	BEAU	EFFORT	SEASON	VESSEL	TYPE	P/S
1-Dec-16	NE LANTAU	1	1.10	WINTER	STANDARD36826	HKLR	Р
1-Dec-16	NE LANTAU	2	14.04	WINTER	STANDARD36826	HKLR	Р
1-Dec-16	NE LANTAU	3	2.70	WINTER	STANDARD36826	HKLR	Р
1-Dec-16	NE LANTAU	2	6.99	WINTER	STANDARD36826	HKLR	S
1-Dec-16	NE LANTAU	3	2.87	WINTER	STANDARD36826	HKLR	S
1-Dec-16	<b>NW LANTAU</b>	2	7.78	WINTER	STANDARD36826	HKLR	Р
1-Dec-16	NW LANTAU	3	30.29	WINTER	STANDARD36826	HKLR	Р
1-Dec-16	NW LANTAU	4	2.10	WINTER	STANDARD36826	HKLR	Р
1-Dec-16	NW LANTAU	2	0.10	WINTER	STANDARD36826	HKLR	S
1-Dec-16	<b>NW LANTAU</b>	3	12.43	WINTER	STANDARD36826	HKLR	S
6-Dec-16	NE LANTAU	2	8.24	WINTER	STANDARD36826	HKLR	Р
6-Dec-16	NE LANTAU	3	12.45	WINTER	STANDARD36826	HKLR	Р
6-Dec-16	NE LANTAU	2	5.56	WINTER	STANDARD36826	HKLR	S
6-Dec-16	NE LANTAU	3	5.85	WINTER	STANDARD36826	HKLR	S
6-Dec-16	<b>NW LANTAU</b>	2	3.30	WINTER	STANDARD36826	HKLR	Р
6-Dec-16	<b>NW LANTAU</b>	3	21.96	WINTER	STANDARD36826	HKLR	Р
6-Dec-16	NW LANTAU	4	6.80	WINTER	STANDARD36826	HKLR	Р
6-Dec-16	NW LANTAU	2	2.34	WINTER	STANDARD36826	HKLR	S
6-Dec-16	NW LANTAU	3	5.60	WINTER	STANDARD36826	HKLR	S
16-Dec-16	NE LANTAU	2	1.84	WINTER	STANDARD36826	HKLR	Р
16-Dec-16	NE LANTAU	3	15.94	WINTER	STANDARD36826	HKLR	Р
16-Dec-16	NE LANTAU	4	2.10	WINTER	STANDARD36826	HKLR	Р
16-Dec-16	NE LANTAU	2	2.56	WINTER	STANDARD36826	HKLR	S
16-Dec-16	NE LANTAU	3	8.66	WINTER	STANDARD36826	HKLR	S
16-Dec-16	NW LANTAU	2	8.49	WINTER	STANDARD36826	HKLR	Р
16-Dec-16	NW LANTAU	3	22.63	WINTER	STANDARD36826	HKLR	Р
16-Dec-16	NW LANTAU	2	3.41	WINTER	STANDARD36826	HKLR	S
16-Dec-16	NW LANTAU	3	4.41	WINTER	STANDARD36826	HKLR	S
19-Dec-16	NW LANTAU	2	25.43	WINTER	STANDARD36826	HKLR	Р
19-Dec-16	NW LANTAU	3	10.26	WINTER	STANDARD36826	HKLR	Р
19-Dec-16	NW LANTAU	2	6.14	WINTER	STANDARD36826	HKLR	S
19-Dec-16	NW LANTAU	3	5.93	WINTER	STANDARD36826	HKLR	S
19-Dec-16	NE LANTAU	2	2.66	WINTER	STANDARD36826	HKLR	P P
19-Dec-16	NE LANTAU NE LANTAU	3 2	12.82 4.15	WINTER WINTER	STANDARD36826 STANDARD36826	HKLR HKLR	S
19-Dec-16 19-Dec-16	NE LANTAU NE LANTAU	3	4.15 5.57	WINTER	STANDARD36826 STANDARD36826	HKLR	S
19-060-10	INE LAINTAU	J	3.31	VVIIVIER	31ANDAND30020	TINLIX	٥

# Appendix II. HKLR03 Chinese White Dolphin Sighting Database (December 2016) (Abberviations: 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 Lines

DATE	STG#	TIME	HRD SZ	AREA	BEAU	PSD	EFFORT	TYPE	NORTHING	EASTING	SEASON	BOAT ASSOC.	P/S
1-Dec-16	1	1337	1	NW LANTAU	3	233	ON	HKLR	827758	806489	WINTER	NONE	Р
16-Dec-16	1	1308	3	NW LANTAU	3	74	ON	HKLR	826206	807351	WINTER	NONE	Р
16-Dec-16	2	1359	8	NW LANTAU	3	ND	OFF	HKLR	827051	805334	WINTER	NONE	
19-Dec-16	1	1105	6	NW LANTAU	2	17	ON	HKLR	826942	804829	WINTER	NONE	Р
19-Dec-16	2	1204	4	NW LANTAU	2	272	ON	HKLR	829219	806502	WINTER	NONE	Р
19-Dec-16	3	1222	2	NW LANTAU	2	26	ON	HKLR	827680	806489	WINTER	NONE	Р

# Appendix III. Individual dolphins identified during HKLR03 monitoring surveys in December 2016

ID#	DATE	STG#	AREA
CH34	19/12/16	1	NW LANTAU
NL46	16/12/16	2	NW LANTAU
NL98	16/12/16	2	NW LANTAU
NL104	19/12/16	1	NW LANTAU
NL120	16/12/16	1	NW LANTAU
NL136	16/12/16	2	NW LANTAU
NL182	01/12/16	1	NW LANTAU
	16/12/16	2	NW LANTAU
NL202	16/12/16	2	NW LANTAU
	19/12/16	1	NW LANTAU
	19/12/16	3	NW LANTAU
NL203	19/12/16	2	NW LANTAU
NL226	16/12/16	1	NW LANTAU
NL286	16/12/16	2	NW LANTAU
	19/12/16	1	NW LANTAU
	19/12/16	3	NW LANTAU
NL296	16/12/16	1	NW LANTAU
NL321	19/12/16	1	NW LANTAU
WL17	19/12/16	2	NW LANTAU



NL120\_20161216\_1

NL226\_20161216\_1

NL182 20161201 1

Appendix IV. Photographs of Identified Individual Dolphins in December 2016 (HKLR03)



Appendix IV. (cont'd)



Appendix IV. (cont'd)

Appendix L

Event Action Plan

Appendix L1 Event/Action Plan for Air Quality

		AC	ΓΙΟΝ	
EVENT	ET (1)	IEC (1)	SOR <sup>(1)</sup>	Contractor
Action Level				
1. Exceedance for one sample	<ol> <li>Identify the source.</li> <li>Inform the IEC and the SOR.</li> </ol>	1. Check monitoring data submitted by the ET.	1. Notify Contractor.	<ol> <li>Rectify any unacceptable practice</li> <li>Amend working methods if</li> </ol>
	<ol><li>Repeat measurement to confirm finding.</li></ol>	<ol><li>Check Contractor's working method.</li></ol>		appropriate
	<ol><li>Increase monitoring frequency to daily.</li></ol>			
2. Exceedance for two	1. Identify the source.	1. Check monitoring data	<ol> <li>Confirm receipt of notification of failure in writing.</li> </ol>	1. Submit proposals for remedial actions to IEC within 3 working
or more consecutive	2. Inform the IEC and the SOR.	submitted by the ET.		
samples	3. Repeat measurements to confirm	2. Check the Contractor's working	2. Notify the Contractor.	days of notification
	findings.	method.	3. Ensure remedial measures properly	2. Implement the agreed proposals
	<ol><li>Increase monitoring frequency to daily.</li></ol>	<ul><li>3. Discuss with the ET and the Contractor on possible remedial measures.</li><li>4. Advise the SOR on the effectiveness of the proposed</li></ul>	implemented.	3. Amend proposal if appropriate
	<ol><li>Discuss with the IEC and the Contractor on remedial actions required.</li></ol>			
	<ol><li>If exceedance continues, arrange meeting with the IEC and the SOR.</li></ol>	<ul><li>remedial measures.</li><li>5. Supervisor implementation of remedial measures.</li></ul>		
	<ol><li>If exceedance stops, cease additional monitoring.</li></ol>			

	ACTION								
EVENT	ET <sup>(1)</sup>	IEC (1)	SOR <sup>(1)</sup>	Contractor					
Limit Level									
1. Exceedance for one	1. Identify the source.	1. Check monitoring data submitted	1. Confirm receipt of notification of	Take immediate action to avoid further exceedance					
sample	2. Inform the SOR and the DEP.	by the ET.	failure in writing.						
	<ol><li>Repeat measurement to confirm finding.</li></ol>	<ol><li>Check Contractor's working method.</li></ol>	<ul><li>2. Notify the Contractor.</li><li>3. Ensure remedial measures are</li></ul>	<ol><li>Submit proposals for remedial actions to IEC within 3 working days of notification</li></ol>					
	<ol><li>Increase monitoring frequency to daily.</li></ol>	3. Discuss with the ET and the Contractor on possible remedial	properly implemented.	3. Implement the agreed proposals					
	<ol><li>Assess effectiveness of Contractor's remedial actions and keep the IEC, the DEP and the SOR informed of</li></ol>	<ul><li>measures.</li><li>4. Advise the SOR on the effectiveness of the proposed remedial measures.</li></ul>		4. Amend proposal if appropriate					
	the results.	<ol><li>Supervisor implementation of remedial measures.</li></ol>							
2. Exceedance for two or more consecutive	<ol> <li>Notify the IEC, the SOR, the DEP and the Contractor.</li> </ol>	1. Discuss amongst the SOR, ET and the Contractor on the	<ol> <li>Confirm receipt of notification of failure in writing.</li> </ol>	<ol> <li>Take immediate action to avoid further exceedance.</li> </ol>					
samples	2. Identify the source.	potential remedial actions.	2. Notify the Contractor.	2. Submit proposals for remedial					
	3. Repeat measurements to confirm findings.	2. Review the Contractor's remedial actions whenever	3. In consultation with the IEC, agree with the Contractor on the	actions to IEC within 3 working days of notification.					
	4. Increase monitoring frequency to	necessary to assure their effectiveness and advise the	remedial measures to be	3. Implement the agreed proposals.					
	daily.	SOR accordingly.	implemented.	4. Resubmit proposals if problem still					
	5. Carry out analysis of the	3. Supervise the implementation of	4. Ensure remedial measures are properly implemented.	not under control.					
	Contractor's working procedures to determine possible mitigation to be implemented.	remedial measures.	5. If exceedance continues, consider what activity of the work is responsible and instruct the	<ol><li>Stop the relevant activity of works as determined by the SOR until the exceedance is abated.</li></ol>					
	<ol><li>Arrange meeting with the IEC and the SOR to discuss the remedial actions to be taken.</li></ol>		Contractor to stop that activity of work until the exceedance is abated.						
	7. Assess effectiveness of the Contractor's remedial actions								

and keep the IEC, the DEP and the SOR informed of the results.

8. If the exceedance stops, cease additional monitoring.

Appendix L2 Event/Action Plan for Construction Noise

		ACTI	ION	
EVENT	ET	IEC	SOR	Contractor
Action Level	<ol> <li>Notify the IEC and the Contractor.</li> <li>Carry out investigation.</li> </ol>	Review the analysed results submitted by the ET.	Confirm receipt of notification of failure in writing.	Submit noise mitigation proposals to IEC
	<ol> <li>Report the results of investigation to the IEC and the Contractor.</li> <li>Discuss with the Contractor and formulate remedial measures.</li> <li>Increase monitoring frequency to check mitigation effectiveness.</li> </ol>	measures by the Contractor and advise the SOR accordingly.  3. Supervise the implementation of remedial measures.	<ol> <li>Notify the Contractor.</li> <li>Require the Contractor to propose remedial measures for the analysed noise problem.</li> <li>Ensure remedial measures are properly implemented.</li> </ol>	Implement noise mitigation proposals
2. 3. 4. 5.	1. Notify the IEC, the SOR, the DEP and the Contractor.	and the Contractor on the potential	Confirm receipt of notification of failure in writing.	Take immediate action to avoid further exceedance
	<ol> <li>Identify the source.</li> <li>Repeat measurement to confirm findings.</li> </ol>	2 Parriary the Contractor's remodial	<ol> <li>Notify the Contractor.</li> <li>Require the Contractor to propose remedial measures for the analysed</li> </ol>	<ol><li>Submit proposals for remedial actions to IEC within 3 working days of notification</li></ol>
	<ul><li>4. Increase monitoring frequency.</li><li>5. Carry out analysis of Contractor's working procedures to determine</li></ul>	<ul><li>assure their effectiveness and advise the SOR accordingly.</li><li>3. Supervise the implementation of remedial measures.</li></ul>	noise problem.  4. Ensure remedial measures are properly implemented.	<ul><li>3. Implement the agreed proposals</li><li>4. Resubmit proposals if problem still not under control</li></ul>
	<ul><li>possible mitigation to be implemented.</li><li>6. Inform the IEC, the SOR and the DEP the causes &amp; actions taken for the exceedances.</li></ul>	remediai measures.	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.	5. Stop the relevant activity of works as determined by the SOR until the exceedance is abated.
	<ol> <li>Assess effectiveness of the Contractor's remedial actions and keep the IEC, the DEP and the SOR informed of the results.</li> </ol>			
	<ol><li>If exceedance stops, cease additional monitoring.</li></ol>	1		

Appendix L3 Event/Action Plan for Water Quality

Event	ET	Leader		IEC	S	OR		Contractor
Action level being exceeded by one sampling day	1.	Repeat in situ measurement on next day of exceedance to confirm findings;	1.	Check monitoring data submitted by ET and Contractor's working methods.	1.	Confirm receipt of notification of non-compliance in writing;	1.	Inform the SOR and confirm notification of the non-compliance in writing;
	2.	Identify source(s) of impact;			2.	Notify Contractor.	2.	Rectify unacceptable practice;
	3.	Inform IEC, contractor and SOR;					3.	Amend working methods if appropriate.
	4.	Check monitoring data, all plant, equipment and Contractor's working methods.						··FI
Action level being exceeded by two or more consecutive sampling days	1.	Repeat measurement on next day of exceedance to confirm findings;	1.	Check monitoring data submitted by ET and Contractor's working method;	1.	Discuss with IEC on the proposed mitigation measures;	1.	Inform the Supervising Officer and confirm notification of the non-
	2.	Identify source(s) of impact;	2	D: :1 FE 1.0	•	T		compliance in writing;
	3.	Inform IEC, contractor, SOR and EPD;	2.	Discuss with ET and Contractor on possible remedial actions;	2.	Ensure mitigation measures are properly implemented;	2.	Rectify unacceptable practice;
	4.	Check monitoring data, all plant, equipment and Contractor's working methods;	3.	Review the proposed mitigation measures submitted by Contractor and advise the SOR accordingly;	3.	Assess the effectiveness of the implemented mitigation measures.	3.	Check all plant and equipment and consider changes of working methods;
	5.	Discuss mitigation measures with IEC,					4.	Submit proposal of additional
		SOR and Contractor;	4.	Supervise the implementation of mitigation measures.				mitigation measures to SOR within 3 working days of
	6.	Ensure mitigation measures are implemented;		mugutori measures.				notification and discuss with ET, IEC and SOR;
	7.	Increase the monitoring frequency to daily until no exceedance of Action level;					5.	Implement the agreed mitigation measures.
Limit level being exceeded by one sampling day	1.	Repeat measurement on next day of exceedance to confirm findings;	1.	Check monitoring data submitted by ET and Contractor's working method;	1.	Confirm receipt of notification of failure in writing;	1.	Inform the SOR and confirm notification of the non-compliance in writing;

Event	ΕT	Leader		IEC	SC	OR		Contractor
	2.	Identify source(s) of impact;		2	2.	Discuss with IEC, ET and		
	3.	Inform IEC, contractor, SOR and EPD;	2.	Discuss with ET and Contractor on possible remedial actions;		Contractor on the proposed mitigation measures;	2.	Rectify unacceptable practice;
	4.	Check monitoring data, all plant, equipment and Contractor's working methods;	3.	Review the proposed mitigation 3 measures submitted by Contractor and advise the SOR	3.	Request Contractor to review the working methods.	3.	Check all plant and equipment and consider changes of working methods;
	5.	Discuss mitigation measures with IEC, SOR and Contractor;		accordingly.			4.	Submit proposal of mitigation measures to SOR within 3 working days of notification and discuss with ET, IEC and SOR.
Limit level being exceeded by two or more consecutive	1.	Repeat measurement on next day of exceedance to confirm findings;	1.	Check monitoring data submitted by ET and Contractor's working method;		Discuss with IEC, ET and     Contractor on the     proposed mitigation	1.	Take immediate action to avoid further exceedance;
sampling days	2.	Identify source(s) of impact;				measures;	2.	Submit proposal of mitigation
	3.	Inform IEC, contractor, SOR and EPD;	2.	Discuss with ET and Contractor on possible remedial actions;		Request Contractor to critically review the working methods;		measures to SOR within 3 working days of notification and discuss with ET, IEC and
	4.	equipment and Contractor's working	3.	Review the Contractor's mitigation measures whenever		3. Make agreement on the mitigation measures to be		SOR;
		methods;		necessary to assure their effectiveness and advise the		implemented; 4.	3.	Implement the agreed mitigation measures;
	5.	Discuss mitigation measures with IEC, SOR and Contractor;		SOR accordingly;		<ul><li>5. Ensure mitigation measures are properly implemented;</li></ul>	4.	Resubmit proposals of
		,	4.	Supervise the implementation		6.		mitigation measures if
	6.	Ensure mitigation measures are implemented;		of mitigation measures.		7. Consider and instruct, if necessary, the Contractor to slow down or to stop all		problem still not under control;
	7.	Increase the monitoring frequency to daily until no exceedance of Limit level for two consecutive days;				or part of the construction activities until no exceedance of Limit level.	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.

Appendix L4 Implementation of Event-Action Plan for Dolphin Monitoring

Event	ET Leader	IEC	SOR	Contractor
Action Level	<ol> <li>Repeat statistical data analysis to confirm findings;</li> <li>Review all available and relevant data, including</li> </ol>	Check monitoring data submitted by ET and Contractor;	1. Discuss monitoring with the IEC and any other measures proposed by the ET;	Inform the SOR and confirm notification of the non-compliance in writing;
	raw data and statistical analysis results of other parameters covered in the EM&A, to ascertain if	2. Discuss monitoring results and findings with the ET and the	2. If SOR is satisfied with the	2. Discuss with the ET and the
	differences are as a result of natural variation or previously observed seasonal differences;	Contractor.	proposal of any other measures, SOR to signify the agreement in writing on the measures to be	IEC and propose measures to the IEC and the SOR;
	3. Identify source(s) of impact;		implemented.	3. Implement the agreed measures.
	4. Inform the IEC, SOR and Contractor;			
	5. Check monitoring data.			
	<ol><li>Review to ensure all the dolphin protective measures are fully and properly implemented and advise on additional measures if necessary.</li></ol>			

	EC	SOR	Contractor
parameters covered in the EM&A, to ascertain if differences are as a result of natural variation or previously observed seasonal differences; 3. Identify source(s) of impact; 4. Inform the IEC, ER/SOR and Contractor of findings; 5. Check monitoring data; 6. Repeat review to ensure all the dolphin protective measures are fully and properly implemented and advise on additional measures if necessary; 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	by ET and Contractor; Discuss monitoring results and findings with the ET and the Contractor; Attend the meeting to discuss with ET, ER/SOR and Contractor the necessity of additional dolphin monitoring and any other potential mitigation measures; Review proposals for additional monitoring and any other mitigation measures submitted by ET and Contractor and advise ER/SOR of the results and findings accordingly; Supervise / Audit the implementation of additional monitoring and/or any other mitigation measures and advise ER/SOR the results and findings accordingly.		<ol> <li>Inform the ER/SOR and confirm notification of the non- compliance in writing;</li> <li>Attend the meeting to discuss with ET, IEC and ER/SOR the necessity of additional dolphin monitoring and any other potential mitigation measures;</li> <li>Jointly submit with ET to IEC a proposal of additional dolphin monitoring and/or any other mitigation measures when necessary;</li> <li>Implement the agreed additional dolphin monitoring and/or any other mitigation measures.</li> </ol>

Appendix L5 Event and Action Plan on Dolphin Acoustic Behaviour

EVENT		ACTION		
	ET Leader	IEC	SO	Contractor
Action Level				
With the numerical values presented in <i>Table 5.7</i> of <i>Baseline Monitoring Report</i> , when any of the response variable for dolphin acoustic behaviour recorded in the construction phase monitoring is 20% lower or higher than that recorded in the baseline monitoring (see <i>Table 5.8</i> of <i>Baseline Monitoring Report</i> ), or when there is a difference of 20% in dolphin acoustic signal detection at nighttime period at Site C1 only, the action level should be triggered	<ol> <li>Repeat statistical data analysis to confirm findings;</li> <li>Review all available and relevant data to ascertain if differences are as a result of natural variation or seasonal differences;</li> <li>Identify source(s) of impact;</li> <li>Inform the IEC, SO and Contractor;</li> <li>Check monitoring data;</li> <li>Carry out audit to ensure all dolphin protective measures are implemented fully and additional measures be proposed if necessary</li> </ol>	<ol> <li>Check monitoring data submitted by ET and Contractor;</li> <li>Discuss monitoring with the ET and the Contractor;</li> </ol>	<ol> <li>Discuss with the IEC the repeat monitoring and any other measures proposed by the ET;</li> <li>Make agreement on measures to be implemented.</li> </ol>	<ol> <li>Inform the SO and confirm notification of the non- compliance in writing;</li> <li>Discuss with the ET and the IEC and propose measures to the IEC and the SO;</li> <li>Implement the agreed measures.</li> </ol>

EVENT		ACTION		
	ET Leader	IEC	SO	Contractor
Limit Level  With the numerical values presented in Table 5.7 of Baseline Monitoring Report, when any of the response variable for dolphin acoustic behaviour recorded in the construction phase monitoring is 40% lower	Repeat statistical data analysis to confirm findings;      Review all available and relevant data to ascertain if differences are as a result of natural variation or seasonal differences;	1. Check monitoring data submitted by ET and Contractor; 2. Discuss monitoring with the ET and the Contractor;	1. Discuss with the IEC the repeat monitoring and any other measures proposed by the ET;	1. Inform the SO and confirm notification of the non-compliance in writing; 2. Discuss with the ET and
or higher than that recorded in the baseline monitoring (see Table 5.8 of <i>Baseline Monitoring Report</i> ), or when there is a difference of 40% in dolphin acoustic signal detection at nighttime at Site C1 only, the limit level should be triggered	<ol> <li>Identify source(s) of impact;</li> <li>Inform the IEC, SO and Contractor;</li> <li>Check monitoring data;</li> <li>Carry out audit to ensure all dolphin protective measures are implemented fully and additional measures be proposed if necessary</li> <li>Discuss additional dolphin monitoring and any other potential mitigation measures (eg consider to temporarily stop relevant portion of construction activity) with the IEC and</li> </ol>	3. Review proposals for additional monitoring and any other measures submitted by the Contractor and advise ER accordingly.	2. Make agreement on measures to be implemented.	the IEC and propose measures to the IEC and the SO;  3. Implement the agreed measures.
	Contractor.			

Abbreviations: ET - Environmental Team, IEC - Independent Environmental Checker, SO - Supervising Office, DEP - Director of Environmental Protection

## Appendix M

Monthly Summary of Waste Flow Table

Contract No.: HY/2012/07

# Tuen Mun Chek Lap Kok Link – Southern Connection Viaduct Section Monthly Summary Waste Flow Table for 2016 (Year)

Month\Material	Actual Quantities of Inert C&D Materials Generation						Actual Quantities of C&D wastes Generation					Actual Quantities of Recyclables Generation				
	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fills	Imported Fill	Marine Sediment, Cat. L	Marine Sediment, Cat. Mp	Marine Sediment, Cat. Mf	Marine Sediment, Cat. H	Chemical Waste	General Refuse	Metals	Felled trees	Paper/ cardboard packaging	Plastics
Unit	('000m <sup>3</sup> )	('000m <sup>3</sup> )	('000m <sup>3</sup> )	('000m <sup>3</sup> )	('000m <sup>3</sup> )	('000m <sup>3</sup> )	('000m <sup>3</sup> )	('000m <sup>3</sup> )	('000m <sup>3</sup> )	('000m <sup>3</sup> )	('000Kg)	('000Kg)	('000Kg)	('000Kg)	('000Kg)	('000Kg)
Jan	1.941	0.263	0.606	-	1.334	-	-	-	-	-	-	69.400	-	-	0.105	-
Feb	0.783	0.185	0.092	-	0.692		-	-	-	-	-	85.890	-	-	0.112	-
Mar	1.502	0.429	0.537	-	0.965		-	-	-	-	2.000	88.360	-	-	-	-
Apr	1.354	0.402	0.789	-	0.565		-	-	-	-	3.000	79.580	-	8.640	0.084	-
May	1.057	0.192	0.617	-	0.440	-	-	-	-	-	3.000	75.620	-	-	-	-
Jun	0.499	0.277	0.116	-	0.383		-	-	-	-	-	103.270	-	-	0.105	-
SUB-TOTAL	7.136	1.747	2.757	-	4.379	0.000	-	-	-	-	8.000	502.120	-	8.640	0.406	-
Jul	0.507	0.211	0.230	-	0.277		-	-	-	-	2.200	94.760	-	1.540	0.350	-
Aug	1.294	0.144	0.684	-	0.610		-	-	-	-	-	116.990	-	9.790	0.098	-
Sep	2.584	0.155	0.270	-	2.314	-	-	-	-	-	-	130.060	-	-	0.105	-
Oct	2.338	0.180	0.156	-	2.183		-	-	-	-	-	141.300	-	-	0.028	-
Nov	3.873	0.328	0.536	-	3.337		0.473	-	-	-	1.567	138.270	-	-	0.063	-
Dec	4.129	0.322	0.732	-	3.397		0.990	-	-	-	-	130.900	-	-	0.063	-
TOTAL	21.860	3.087	5.364	-	16.496	-	1.463	-	-	-	11.767	1,254.400	-	19.970	1.113	-

#### Notes

- 1 The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.
- 2 Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material.
- 3 Broken concrete for recycling into aggregates.
- 4 Assumed 5 kg per damaged water-filled barrier.
- 5 Disposed as Public Fills includes Hard Rock and Large Broken Concrete.

## Appendix N

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

Appendix N1 Cumulative Statistics on Exceedances

		Total No. recorded in this reporting month	Total No. recorded since project commencement
1-Hr TSP	Action	0	0
	Limit	0	0
24-Hr TSP	Action	0	2
	Limit	0	0
Noise	Action	0	0
	Limit	0	0
Water Quality	Action	0	2
•	Limit	0	0
Impact Dolphin	Action	0	9
Monitoring	Limit	0	7

Appendix N2 Cumulative Statistics on Complaints, Notifications of Summons and Successful Prosecutions

Reporting Period	Cumulative Statistics						
	Complaints	Notifications of	Successful				
		Summons	Prosecutions				
This Reporting Month (December 2016)	1	0	0				
Total No. received since project commencement	7	0	0				

### ENVIRONMENTAL COMPLAINT/ ENQUIRY FORM



## Complaint/ Enquiry Received\*

Date: 13 December 2016 Time: Undisclosed

From: Environmental Protection Department (EPD)

Via: Email

Complainant/ Enquirer\*:

Name: Undisclosed
Tel: Undisclosed
Address: Undisclosed

Media: Dust Noise Water Quality Other

Description: On 13 December 2016, a complaint was received by the EPD from Seaview Crescent regarding the hammering noise nuisance generated during midnights over the past month. The complainant believed that the noise source was possibly from construction sites of the Hong Kong Zhuhai Macao Bridge Projects. The Environmental Team (ET) received the complaint notification from the Independent Environmental Checker (IEC) on 14 December 2016.

## Investigation Report & Response

The Construction Noise Permit (CNP) for night-time works (CNP no. GW-RS1159-16) and night-time working record were reviewed immediately upon receiving the complaint. Night-time works under this Contract in recent months were mainly segment erection works over the MTR tracks, North Lantau Highway and Cheung Tung Road. Under the Noise Control Ordinance, the works area of this Contract is located in non-designated area such that hammering would be allowed with reference to Technical Memorandum on Noise from Construction Work in Designated Areas. According to the Contractor, hammering was involved only occasionally during night-time between 14 November 2016 and 13 December 2016. In addition, works area under this Contract was located far from where the complainant lived i.e. distance between Seaview Crescent and the closest works area at night was approximate 2.7km (refer to the diagram below), therefore it is believed that noise generated at the sites is unlikely to be heard by the complainant.

Besides, the Contractor has been implementing the Restricted Hours Permit-to-Work System to monitor works at night or during holidays. Under the system, works that carried out during restricted hours would be reviewed to ensure works were in compliance with CNP requirement. Additionally, PMEs within the Contract works boundary were operated in accordance with the conditions stipulated in the CNP. Based on the above, the night-time works under this Contract are considered complying with the corresponding requirements stipulated in the CNP granted and the complaint is considered invalid for the Contract.



## Mitigation Measures and Follow-Up Actions Recommended to Contractor

The Contractor has been reminded to implement all relevant noise mitigation measures recommended or specified in the EIA Report, EM&A Manual, EMP, Method Statements, General and Particular Specifications of this Project to avoid causing noise nuisance to the Public.

The Contractor is also reminded to ensure that the construction plant deployed for the works during restricted hours is in strict compliance with the relevant CNP granted.

Date of File Closed: 16 December 2016

Approved and Filed by:

(Jovy Tam, ET Leader) Date: 16 December 2016