

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

Fortieth Monthly Environmental Monitoring & Audit (EM&A) Report

13 March 2017

#### **Environmental Resources Management**

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14 March 2017

By Fax (2293 6300) and By Post

AECOM Supervising Officer Representative's Office No.8 Mong Fat Street, Tuen Mun, New Territories, Hong Kong

Attention: Messrs. Andy Westmoreland / Roger Man

Dear Sirs,

#### Re: Agreement No. CE 48/2011 (EP) Environmental Project Office for the HZMB Hong Kong Link Road, HZMB Hong Kong Boundary Crossing Facilities, and Tuen Mun-Chek Lap Kok Link – Investigation

#### Contract No. HY/2012/08 TM-CLKL Northern Connection Sub-sea Tunnel Section 40<sup>th</sup> Monthly EM&A Report for February 2017 (EP-354/2009/D)

Reference is made to the Monthly Environmental Monitoring and Audit (EM&A) Report (Feb. 2017) (ET's ref.: "0212330\_40th Monthly EM&A\_20170313.doc" dated 13 Mar. 2017) certified by the ET Leader and provided to us via e-mail on 14 Mar. 2017.

Please be informed that we have no adverse comments on the captioned Report. We write to verify the captioned submission in accordance with Condition 4.4 of EP-354/2009/D.

Thank you for your attention. Please do not hesitate to contact the undersigned or the ENPO Leader Mr. Y. H. Hui should you have any queries.

Yours sincerely,

Hanffandbary

F. C. Tsang Independent Environmental Checker Tuen Mun – Chek Lap Kok Link

c.c.

HyD – Mr. Stephen Chan (By Fax: 3188 6614) HyD – Mr. Vico Cheung (By Fax: 3188 6614) AECOM – Mr. Conrad Ng (By Fax: 3922 9797) ERM – Mr. Jovy Tam (By Fax: 2723 5660) Dragages – Bouygues JV - Mr. C. F. Kwong (By Fax: 2293 7499)

Internal: DY, YH, ENPO Site

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

Fortieth Monthly Environmental Monitoring & Audit (EM&A) Report

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#### Client: Project No: DBJV 0212330 Summary: Date: 13 March 2017 Approved by: This document presents the Fortieth Monthly EM&A Report for Tuen Mun – Chek Lap Kok Link Northern Connection Sub-sea Tunnel Section. Mr Craig Reid Partner Certified by: Mr Jovy Tam ET Leader 40<sup>th</sup> Monthly EM&A Report VAR JT CAR 13/03/17 Revision By Checked Approved Date Description Distribution 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 Internal 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 Public the scope of the above. Confidential ISO 9001 : 2008 Certificate No. FS 32515



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	EXECUTIVE SUMMARY	1
1	INTRODUCTION	4
1.1	BACKGROUND	4
1.2	SCOPE OF REPORT	5
1.3	ORGANIZATION STRUCTURE	5
1.4	SUMMARY OF CONSTRUCTION WORKS	6
2	EM&A RESULTS	8
2.1	AIR QUALITY	8
2.2	WATER QUALITY MONITORING	10
2.3	<b>DOLPHIN MONITORING</b>	11
2.4	EM&A SITE INSPECTION	16
2.5	WASTE MANAGEMENT STATUS	17
2.6	ENVIRONMENTAL LICENSES AND PERMITS	18
2.7	IMPLEMENTATION STATUS OF ENVIRONMENTAL MITIGATION MEASURES	21
2.8	SUMMARY OF EXCEEDANCES OF THE ENVIRONMENTAL QUALITY PERFORMAN	ICE
	LIMIT	21
2.9	SUMMARY OF COMPLAINTS, NOTIFICATION OF SUMMONS AND SUCCESSFUL	
	PROSECUTIONS	21
3	FUTURE KEY ISSUES	22
3.1	<b>CONSTRUCTION ACTIVITIES FOR THE COMING MONTH</b>	22
3.2	Key Issues for the Coming Month	22
3.3	MONITORING SCHEDULE FOR THE COMING MONTH	22
4	CONCLUSIONS AND RECOMMENDATIONS	23
4.1	Conclusions	23

Appendix A	<b>PROJECT ORGANIZATION FOR ENVIRONMENTAL</b> Works
Appendix B	CONSTRUCTION PROGRAMME
Appendix C	ENVIRONMENTAL MITIGATION AND Enhancement Measure Implementation Schedules (EMIS)
Appendix D	SUMMARY OF ACTION AND LIMIT LEVELS
Appendix E	COPIES OF CALIBRATION CERTIFICATE FOR AIR QUALITY MONITORING
Appendix F	EM&A MONITORING SCHEDULES
Appendix G	IMPACT AIR QUALITY MONITORING RESULTS
Appendix H	METEOROLOGICAL DATA
Appendix I	WQM DATA
Appendix J	IMPACT DOLPHIN MONITORING SURVEY
Appendix K	EVENT AND ACTION PLAN
Appendix L	CUMULATIVE STATISTICS ON EXCEEDANCE, COMPLAINTS, NOTIFICATIONS OF SUMMONS AND SUCCESSFUL PROSECUTIONS
APPENDIX M	WASTE FLOW TABLE

#### EXECUTIVE SUMMARY

Under *Contract No. HY/2012/08*, Dragages – Bouygues Joint Venture (DBJV) is commissioned by the Highways Department (HyD) to undertake the design and construction of the Northern Connection Sub-sea Tunnel Section of the Tuen Mun – Chek Lap Kok Link Project (TM-CLK Link Project) while AECOM Asia Company Limited was appointed by HyD as the Supervising Officer. For implementation of the environmental monitoring and audit (EM&A) programme under the Contract, ERM-Hong Kong, Limited (ERM) has been appointed as the Environmental Team (ET) in accordance with *Environmental Permit No. EP-354/2009/A*. Ramboll Environ Hong Kong Ltd. was employed by HyD as the Independent Environmental Checker (IEC) and Environmental Project Office (ENPO). Subsequent applications for variation of environmental permits (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 construction phase of the Project commenced on 1 November 2013 and will tentatively be completed by the end of 2018. The impact monitoring of the EM&A programme, including air quality, water quality, marine ecological monitoring and environmental site inspections, were commenced on 1 November 2013.

This is the Fortieth Monthly EM&A report presenting the EM&A works carried out during the period from 1 to 28 February 2017 for the *Contract No. HY/2012/08 Northern Connection Sub-sea Tunnel Section* (the "Project") in accordance with the Updated EM&A Manual of the TM-CLK Link Project. As informed by the Contractor, major activities in the reporting period included:

#### Land-based Works

- Box Culvert Extension at Works Area Portion N-A;
- Construction of North Ventilation Building Portion N-C;
- Construction of Cross Passage Tympanum TBM tunnel;
- Cross Passage Lining Installation TBM Tunnel;
- Excavation of Sub-sea Tunnel TBM tunnel;
- Corbel Construction TBM Tunnel;
- Sub-sea Tunnel Gallery Installation TBM tunnel;
- Jet Grouting, CSM Ground Treatment and Diaphragm Wall Construction Portion S-A.

## Marine-based Works

- Construction of Vertical Seawall at Portion N-A; and
- Band drain and Filling works at Portion N-A

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

24-hour TSP Monitoring	9 sessions
1-hour TSP Monitoring	9 sessions
Water Quality Monitoring	12 sessions
Impact Dolphin Monitoring	2 sessions
Joint Environmental Site Inspection	4 sessions

Implementation of Marine Mammal Exclusion Zone

Daily marine mammal exclusion zone was in effect during the period of dredging, reclamation or marine sheet piling works in open waters under this Contract. Passive Acoustic Monitoring (PAM) was also implemented for the detection of marine mammal when dredging, reclamation or marine sheet piling works were carried out outside the daylight hours under this Contract. No sighting of the Indo-Pacific humpback dolphin *Sousa chinensis* (i.e. Chinese White Dolphin) was recorded in February 2017 during the exclusion zone monitoring.

## Summary of Breaches of Action/Limit Levels

## Breaches of Action and Limit Levels for Air Quality

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

## Breaches of Action and Limit Levels for Dolphin Monitoring

Whilst one (1) Limit Level exceedance was observed for the quarterly dolphin monitoring data between December 2016 and February 2017, no unacceptable impact from the construction activities of the TM-CLKL Northern Connection Sub-sea Tunnel Section on Chinese White Dolphins was noticeable from general observations. Due to monthly variation in dolphin occurrence within the study area, it would be more appropriate to draw conclusion on whether any impacts on dolphins have been detected related to the construction activities of the TM-CLKL Northern Connection Sub-sea Tunnel Section in the quarterly EM&A reports, where comparison on distribution, group size and encounter rates of dolphins between the quarterly impact monitoring period and baseline monitoring period will be made.

## Breaches of Action and Limit Levels for Water Quality

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

Environmental Complaints, Non-compliance & Summons

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

One (1) environmental complaint case regarding sewage discharge at the east of the artificial island of the Hong Kong – Zhuhai–Macao Bridge was referred by IEC on 16 January 2017. The complaint investigation report is provided in Appendix L.

One (1) environmental complaint case regarding muddy water discharge at the site area near Ho Yeung Street was referred by EPD on 14 February 2017. The environmental complaint case on 14 February 2017 is under investigation. The complete investigation findings will be provided in the *Forty-first Monthly EM&A Report*.

No environmental summons was received in this reporting period.

## Summary of Marine Travel Route record

The marine travel route records of January and February are still under preparation. Reporting of any non-compliance of marine travel route during January, February and March will be provided in the *Forty-first Monthly EM&A Report*.

## Reporting Change

There was no reporting change required in the reporting period.

## Upcoming Works for the Next Reporting Month

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

## Marine-based Works

- Construction of Vertical Seawall at Portion N-A; and
- Band drain and Filling works at Portion N-A

## Land-based Works

- Box Culvert Extension at Works Area Portion N-A;
- Construction of North Ventilation Building Portion N-C;
- Construction of Cross Passage Tympanum TBM tunnel;
- Cross Passage Lining Installation TBM Tunnel;
- Excavation of Sub-sea Tunnel TBM tunnel;
- Corbel Construction TBM Tunnel;
- Sub-sea Tunnel Gallery Installation TBM tunnel;
- Jet Grouting, CSM Ground Treatment and Diaphragm Wall Construction Portion S-A.

## Future Key Issues

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

#### 1.1 BACKGROUND

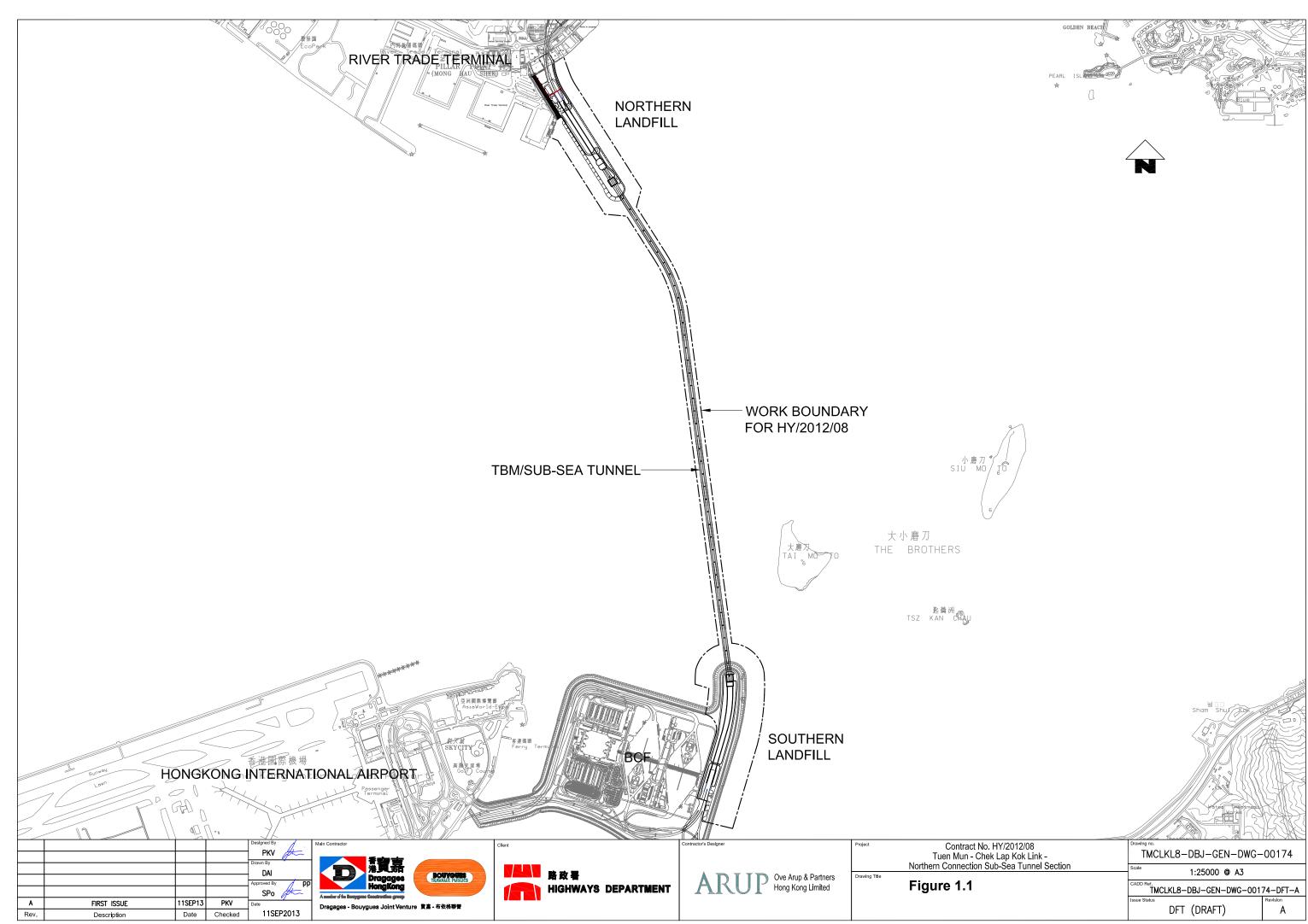
According to the findings of the Northwest New Territories (NWNT) Traffic and Infrastructure Review conducted by the Transport Department, Tuen Mun Road, Ting Kau Bridge, Lantau Link and North Lantau Highway would be operating beyond capacity after 2016. This forecast has been based on the estimated 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 (VEP) (EP-354/2009/A) was issued on 8 December 2010. Subsequent applications for variation of environmental permits (VEPs), *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.

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

Layout of the Contract components is presented in Figure 1.1.

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



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#### 1.2 SCOPE OF REPORT

This is the Fortieth Monthly EM&A Report under the *Contract No. HY/2012/08 Tuen Mun – Chek Lap Kok Link – Northern Connection Sub-sea Tunnel Section.* This report presents a summary of the environmental monitoring and audit works in February 2017.

#### 1.3 ORGANIZATION STRUCTURE

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

## Table 1.1Contact Information of Key Personnel

Party	Position	Name	Telephone	Fax
Highways Department	Engr 16/HZMB	Kenneth Lee	2762 4996	3188 6614
SOR (AECOM Asia Company	Chief Resident Engineer	Edwin Ching	2293 6388	2293 6300
Limited)	Engineer	Andrew Westmoreland	2293 6360	2293 6300
ENPO / IEC (Barrhall Engineer Hang	ENPO Leader	Y.H. Hui	3465 2850	3465 2899
(Ramboll Environ Hong Kong Ltd.)	IEC	Dr. F.C. Tsang	3465 2851	3465 2899
Contractor (Dragages - Bouygues Joint Venture)	Environmental Manager	C.F. Kwong	2293 7322	2293 7499
John Venturej	Environmental Officer	Bryan Lee	2293 7323	2293 7499
	Environmental Officer	David Ho	6628 8684	2293 7499
	24-hour complaint hotline	Rachel Lam	2293 7330	
ET (ERM-HK)	ET Leader	Jovy Tam	2271 3113	2723 5660

#### 1.4 SUMMARY OF CONSTRUCTION WORKS

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

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

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

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

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

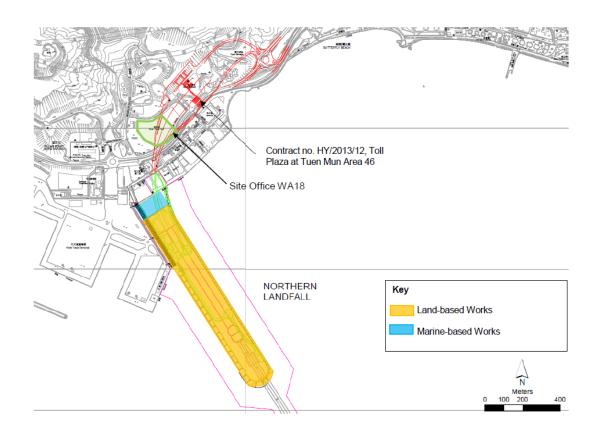
## Construction Activities Undertaken

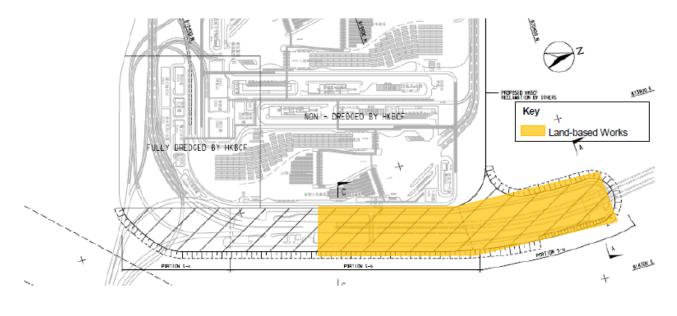
#### Land-based Works

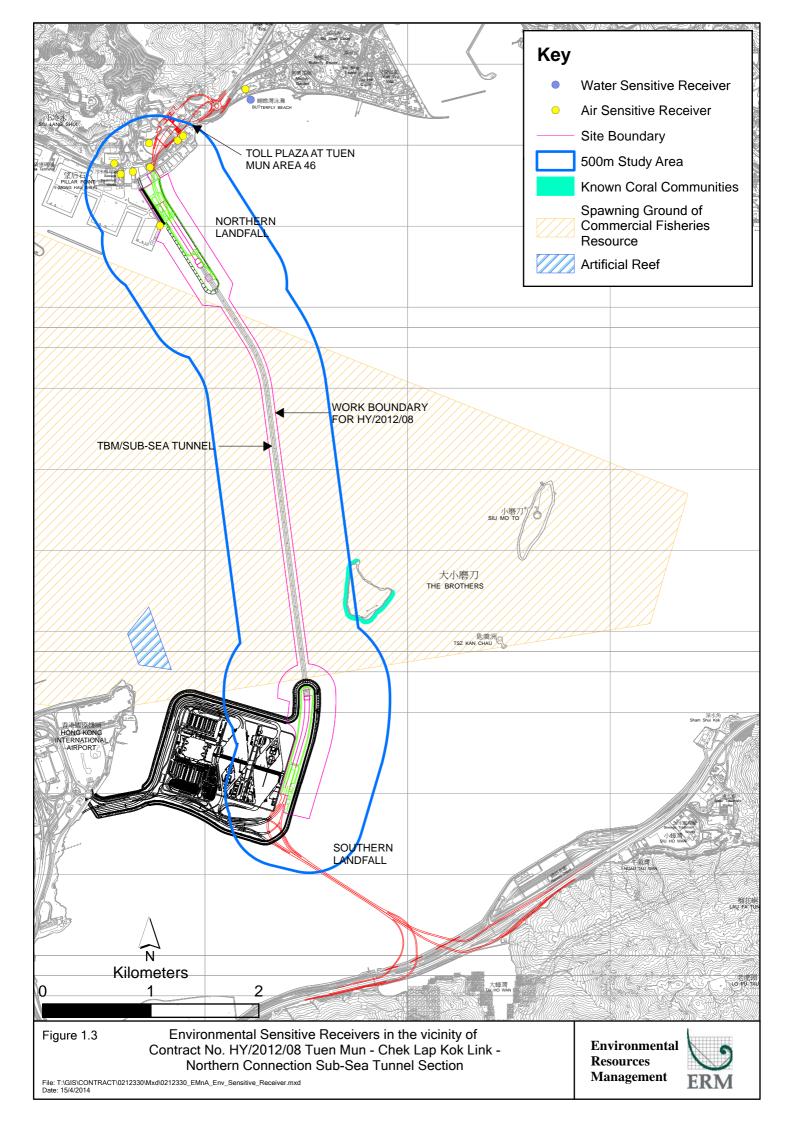
- Box Culvert Extension at Works Area Portion N-A;
- Construction of North Ventilation Building Portion N-C;
- Construction of Cross Passage Tympanum TBM tunnel;
- Cross Passage Lining Installation TBM Tunnel;
- Excavation of Sub-sea Tunnel TBM tunnel;
- Corbel Construction TBM Tunnel;
- Sub-sea Tunnel Gallery Installation TBM tunnel;
- Jet Grouting, CSM Ground Treatment and Diaphragm Wall Construction Portion S-A.

Marine-based Works

- Construction of Vertical Seawall at Portion N-A; and
- Band drain and Filling works at Portion N-A







2

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

## 2.1 AIR QUALITY

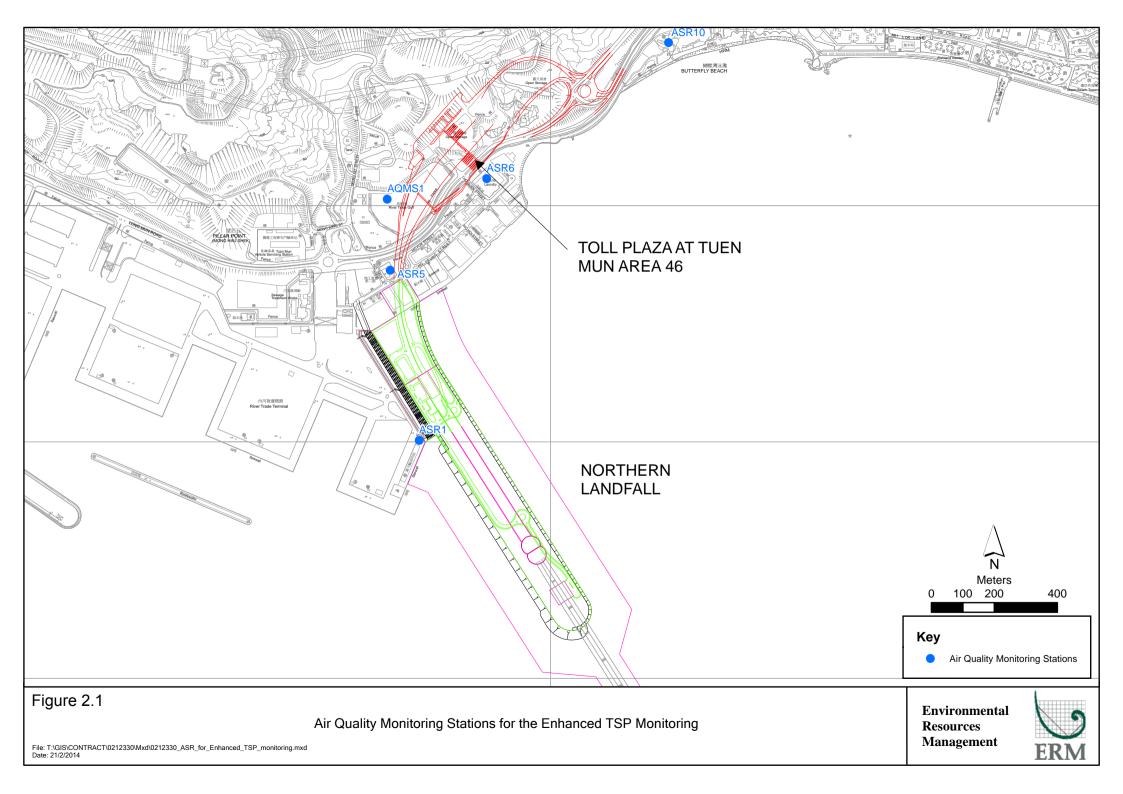
## 2.1.1 Monitoring Requirements and Equipment

In accordance with the Updated EM&A Manual and the Enhanced TSP Monitoring Plan, impact 1-hour TSP monitoring was conducted three (3) times every six (6) days and impact 24-hour TSP monitoring was carried out once every six (6) days when the highest dust impact was expected. 1-hr and 24hr TSP monitoring frequency was increased to three times per day every three days and daily every three days, respectively, as excavation works for launching shaft commenced on 24 October 2014.

High volume samplers (HVSs) were used to carry out the 1-hour and 24-hour TSP monitoring on 2, 5, 8, 11, 14, 17, 20, 23 and 26 February 2017 at the five (5) air quality monitoring stations in accordance with the requirements stipulated in the Updated EM&A Manual (*Figure 2.1; Table 2.1*). Wind meter was installed at the rooftop of ASR5 for logging wind speed and wind direction. Details of the equipment deployed are provided in *Table 2.2*. Copies of the calibration certificates for the equipment are presented in *Appendix E*.

<b>Monitoring Station</b>	Monitoring Dates	Location	Description	Parameters & Frequency
ASR1	2, 5, 8, 11, 14, 17, 20,	Tuen Mun	Office	TSP monitoring
	23 and 26 February	Fireboat Station		• 1-hour Total Suspended
	2017			Particulates (1-hour TSP,
ASR5		Pillar Point Fire	Office	$\mu$ g/m <sup>3</sup> ), 3 times in every 6 day
		Station		• 24-hour Total Suspended
				Particulates (24-hour TSP,
AQMS1		Previous River	Bare ground	$\mu$ g/m <sup>3</sup> ), daily for 24-hour in
		Trade Golf		every 6 days
				Enhanced TSP monitoring
ASR6		Butterfly Beach	Office	(commenced on 24 October 2014)
		Laundry		• 1-hour Total Suspended
				Particulates (1-hour TSP,
ASR10		Butterfly Beach	Recreational	$\mu$ g/m <sup>3</sup> ), 3 times in every 3 day
		Park	uses	• 24-hour Total Suspended
				Particulates (24-hour TSP,
				$\mu$ g/m <sup>3</sup> ), daily for 24-hour in
				every 3 days

# Table 2.1Locations of Impact Air Quality Monitoring Stations and Monitoring Dates<br/>in this Reporting Period



Equipment	Brand and Model
High Volume Sampler (1-hour TSP and 24-hour TSP)	Tisch Environmental Mass Flow Controlled Total Suspended Particulate (TSP) High Volume Sampler (Model No. TE-5170)
Wind Meter	Davis (Model: Vantage Pro 2 (S/N: AS160104014)
Wind Anemometer for calibration	Lutron (Model No. AM-4201)

## 2.1.2 Action & Limit Levels

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

#### 2.1.3 Monitoring Schedule for the Reporting Month

The schedule for air quality monitoring in February 2017 is provided in *Appendix F*.

#### 2.1.4 *Results and Observations*

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

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

Station	Average (µg/m³)	Range (µg/m <sup>3</sup> )	Action Level (µg/m³)	Limit Level (µg/m³)
ASR1	124	63 - 179	331	500
ASR5	149	56 - 202	340	500
AQMS1	94	49 - 161	335	500
ASR6	136	61 - 205	338	500
ASR10	85	42 - 142	337	500

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

Station	Average (µg/m³)	Range (µg/m³)	Action Level (µg/m³)	Limit Level (µg/m³)
ASR1	70	44 - 93	213	260
ASR5	79	48 - 100	238	260
AQMS1	69	50 - 88	213	260
ASR6	72	42 - 104	238	260
ASR10	57	44 - 76	214	260

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

A total of 9 monitoring events were undertaken in which no Action or Limit Level exceedances of 1-hr TSP were recorded in this reporting month. No Action or Limit Level exceedances for 24-hr TSP were record. Meteorological information collected at the ASR5, including wind speed and wind direction, is provided in *Appendix H*.

#### 2.2 WATER QUALITY MONITORING

#### 2.2.1 Monitoring Requirements & Equipment

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

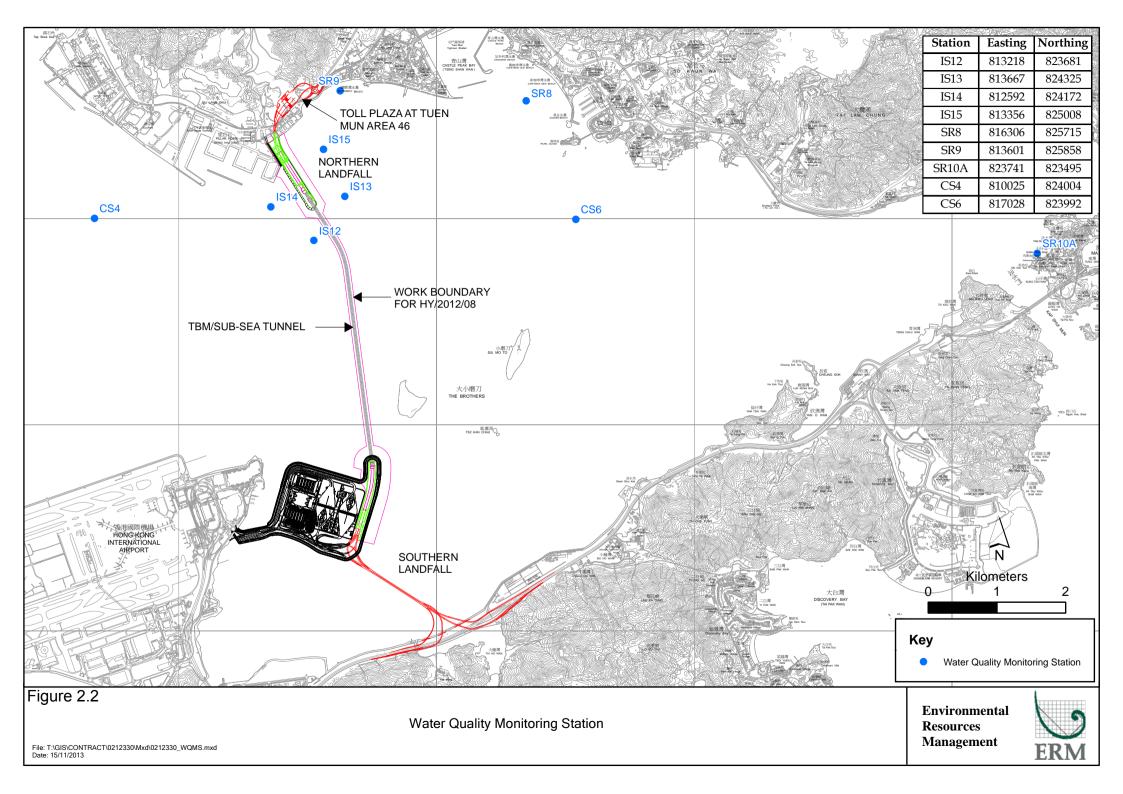
# Table 2.5Locations of Water Quality Monitoring Stations and the Corresponding<br/>Monitoring Requirements

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

\*Notes:

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

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



## Table 2.6Water Quality Monitoring Equipment

Equipment	Model
Water Sampler	Kahlsico Water-Bottle Model 135DW 150
Dissolved Oxygen Meter	YSI Pro 2030
pH Meter	HANNA HI 9125
Turbidity Meter	HACH 2100Q
Monitoring Position	"Magellan" Handheld GPS Model explorist GC
Equipment	DGPS Koden KGP913MK2 <sup>(1)</sup>

#### 2.2.2 Action & Limit Levels

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

#### 2.2.3 Monitoring Schedule for the Reporting Month

The schedule for water quality monitoring in February 2017 is provided in *Appendix F.* 

#### 2.2.4 Results and Observations

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

Since marine works for Phase 2 reclamation commenced on 27 December 2016, impact water quality monitoring resumed on 27 December 2016. In this reporting period, a total of twelve (12) monitoring events were undertaken in which no Action Level or Limit Levels of exceedances for impact water quality monitoring was recorded.

#### 2.3 DOLPHIN MONITORING

#### 2.3.1 Monitoring Requirements

Impact dolphin monitoring is required to be conducted by a qualified dolphin specialist team to evaluate whether there have been any effects on the dolphins. In order to fulfil the EM&A requirements and make good use of available resources, the on-going impact line transect dolphin monitoring data collected by HyD's *Contract No. HY/2011/03 Hong Kong-Zhuhai-Macao Bridge. Hong Kong Link Road - Section between Scenic Hill and Hong Kong Boundary Crossing Facilities* on the monthly basis is adopted to avoid duplicates of survey effort.

## 2.3.2 Monitoring Equipment

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

## Table 2.7Dolphin Monitoring Equipment

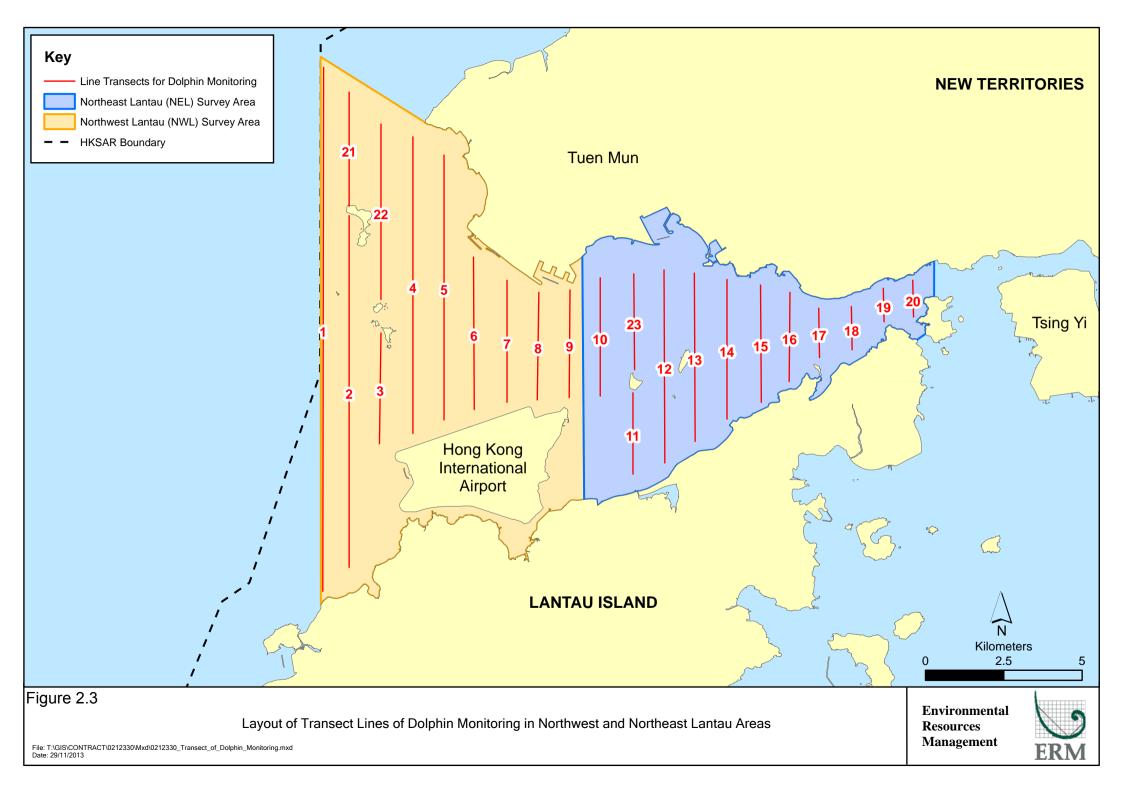
Equipment	Model
Global Positioning System (GPS)	Garmin 18X-PC
	Geo One Phottix
Camera	Nikon D90 300m 2.8D fixed focus
	Nikon D90 20-300m zoom lens
Laser Binocular	Infinitor LRF 1000
Marine Binocular	Bushell 7 x 50 marine binocular with compass and reticules
Vessel for Monitoring	65 foot single engine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

#### 2.3.3 Monitoring Parameter, Frequencies & Duration

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

#### 2.3.4 Monitoring Location

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



	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				

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

#### 2.3.5 Action & Limit Levels

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

#### 2.3.6 Monitoring Schedule for the Reporting Month

Dolphin monitoring was carried out on 7, 9, 16 and 21 of February 2017. The dolphin monitoring schedule for the reporting month is shown in *Appendix F*.

#### 2.3.7 Results & Observations

A total of 288.25 km of survey effort was collected, with 65.0% of the total survey effort being conducted under favourable weather conditions (i.e. Beaufort Sea State 3 or below with good visibility) in February 2017. Among the two areas, 111.41 km and 176.84 km of survey effort were collected from NEL and NWL survey areas, respectively. The total survey effort conducted on primary and secondary lines were 207.74 km and 80.51 km respectively. The survey efforts are summarized in *Appendix J*.

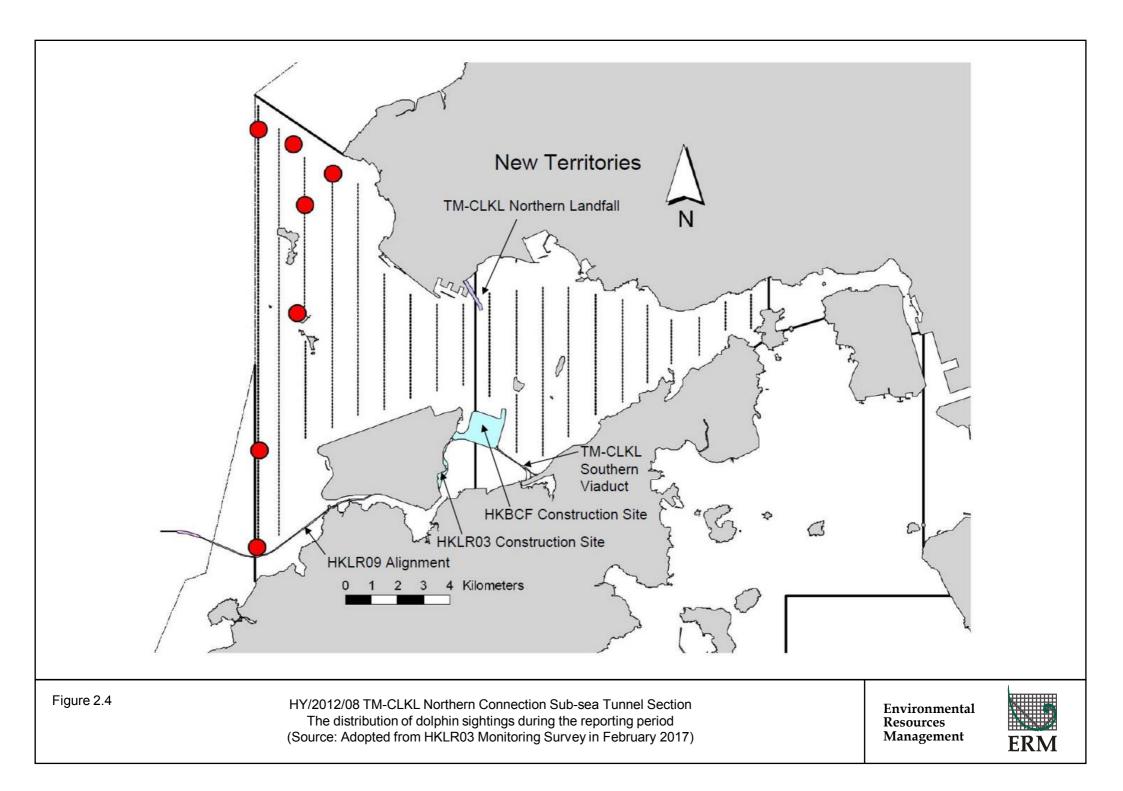
A total of seven groups of 25 Chinese White Dolphins sightings were recorded on one survey in January 2017. All seven dolphin sightings were made in NWL, while none was sighted in NEL. Five of the seven dolphin sightings were made during on-effort search, while four of the five on-effort sightings were made on primary lines. None of these dolphin groups was associated with any operating fishing vessel.

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

Encounter rates of Chinese White Dolphins are deduced from the survey effort and on-effort sighting data made under favourable conditions (Beaufort 3 or below) in February 2017 with the results present in *Tables 2.9* and *2.10*.

		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: February 7th / 9th	0.0	0.0
	Set 2: February 16th / 21st	0.0	0.0
NWL	Set 1: February 7th / 9th	0.0	0.0
	Set 2: February 16th / 21st	9.0	42.7

Note: Dolphin Encounter Rates are deduced from the Two Sets of Surveys (Two Surveys in Each Set) in February 2017 in Northeast (NEL) and Northwest Lantau (NWL)



## Table 2.10Monthly Average Encounter Rates

	Encounter rate (STG) (no. of on-effort dolphin sightings per 100 km of survey effort)		Encounter rate (ANI) (no. of dolphins from all on- effort sightings per 100 km of survey effort)		
	Primary Both Primary Lines Only and Secondary Lines		Primary Lines Only	Both Primary and Secondary Lines	
Northeast Lantau	0.0	0.0	0.0	0.0	
Northwest Lantau	5.4	3.9	25.7	18.8	

Note: Overall dolphin encounter rates (sightings per 100 km of survey effort) from all four surveys are conducted in February 2017 on primary lines only as well as both primary lines and secondary lines in Northeast and Northwest Lantau.

Whilst one (1) Limit Level exceedance was observed for the quarterly dolphin monitoring data between December 2016 and February 2017, no unacceptable impact from the construction activities of the TM-CLKL Northern Connection Sub-sea Tunnel Section on Chinese White Dolphins was noticeable from general observations. Due to monthly variation in dolphin occurrence within the survey area, it would be more appropriate to draw conclusion on whether any unacceptable impacts on dolphins have been detected in relation to the construction activities of this Project in the quarterly EM&A reports, where comparison on distribution, group size and encounter rates of dolphins between the quarterly impact monitoring period and baseline monitoring period will be made.

## 2.3.8 Implementation of Marine Mammal Exclusion Zone

Daily marine mammal exclusion zone was in effect during the period of dredging, reclamation or marine sheet piling works in open waters under this Contract. Passive Acoustic Monitoring (PAM) was also implemented for the detection of marine mammal when dredging, reclamation or marine sheet piling works were carried out outside the daylight hours under this Contract. No sighting of the Indo-Pacific humpback dolphin *Sousa chinensis* (i.e. Chinese White Dolphin) was recorded in January 2017 during the exclusion zone monitoring

## 2.4 EM&A SITE INSPECTION

Site inspections were carried out on a weekly basis to monitor the implementation of proper environmental pollution control and mitigation measures under the Contract. In the reporting month, four (4) site inspections were carried out on 1, 8, 15 and 22 February 2017.

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

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

Inspection Date	Observations	<b>Recommendations/ Remarks</b>
1 February 2017	<ul> <li>Works Area - TBM Tunnel</li> <li>Housekeeping should be maintained.</li> <li>Works Area - Portion S-C</li> <li>Chemical waste should be cleared.</li> <li>The breaker head should be covered with tarpaulin sheet.</li> </ul>	<ul> <li>Works Area - TBM Tunnel</li> <li>The Contractor was reminded to cover the cement bag properly.</li> <li>Works Area - Portion S-C</li> <li>The Contractor was reminded to clear the chemical waste.</li> <li>The Contractor was reminded to cover the breaker head with tarpaulin sheet.</li> </ul>
8 February 2017	<ul> <li>Works Area - Portion N-B</li> <li>Water spraying should be applied during dry conditions.</li> <li>Drip tray and chemical labels should be provided to the chemicals</li> <li>Works Area - Portion S-B</li> <li>Drip tray should be provided to the chemical drum.</li> </ul>	<ul> <li>Works Area - Portion N-B</li> <li>The Contractor was reminded to apply water spraying during dry conditions.</li> <li>The Contractor was reminded to provide drip tray and chemical labels to the chemicals.</li> <li>Works Area - Portion S-B</li> <li>The Contractor was reminded to provide drip tray to the chemical drum.</li> </ul>
15 February 2017	<ul> <li>Works Area -Portion N-C</li> <li>Muddy substance trapped in the surface channel should be removed.</li> <li>Drip tray and chemical labels should be provided to the chemicals.</li> <li>Works Area - Portion N-A</li> <li>Muddy substances and rubbish should be removed. Sandbags should be provided to prevent leakage of wasteater to the sea.</li> <li>Works Area - Portion S-A</li> <li>Drip tray and chemical labels should be provided to the chemicals</li> <li>Accumulated rubbish bags should be removed.</li> </ul>	<ul> <li>Works Area -Portion N-C</li> <li>The Contractor was reminded to remove the muddy substance trapped in the surface channel.</li> <li>The Contractor was reminded to provide drip tray and chemical labels to the chemicals.</li> <li>Works Area - Portion N-A</li> <li>The Contractor was reminded to remove the muddy substances and rubbish and provide sandbags to prevent leakage of wastewater to the sea.</li> <li>Works Area - Portion S-A</li> <li>The Contractor was reminded to provide drip tray and chemical labels to the chemicals.</li> <li>The Contractor was reminded to provide drip tray and chemical labels to the chemicals.</li> <li>The Contractor was reminded to remove the accumulated rubbish bags.</li> </ul>

Observations	<b>Recommendations/ Remarks</b>
<ul> <li>Works Area - Portion N-A</li> <li>Drip tray and chemical labels should be provided to the chemicals.</li> <li>Works Area - Portion N-B</li> <li>Muddy substance and water should be removed.</li> <li>Works Area - Portion S-A</li> <li>Chemical labels should be provided to the chemicals.</li> <li>Cement surface runoff should be avoided.</li> </ul>	<ul> <li>Works Area - Portion N-A</li> <li>The Contractor was reminded to provide drip tray and chemical labels to the chemicals.</li> <li>Works Area - Portion N-B</li> <li>The Contractor was reminded to remove the muddy substance and water.</li> <li>Works Area - Portion S-A</li> <li>The Contractor was reminded to provide chemical labels to the chemicals.</li> <li>The Contractor was reminded to avoid</li> </ul>
	<ul> <li>Works Area - Portion N-A</li> <li>Drip tray and chemical labels should be provided to the chemicals.</li> <li>Works Area - Portion N-B</li> <li>Muddy substance and water should be removed.</li> <li>Works Area - Portion S-A</li> <li>Chemical labels should be provided to the chemicals.</li> </ul>

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

#### 2.5 WASTE MANAGEMENT STATUS

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

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

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

Month/Year	Inert Construction Waste <sup>(a)</sup> (tonnes)	Imported Fill (tonnes)	Inert Construction Waste Re- used (tonnes)	Non-inert Construction Waste <sup>(b)</sup> (tonnes)	Recyclable Materials <sup>(c)</sup> (kg)	Chemical Wastes (kg)	Marine Sediment (m <sup>3</sup> )	
							Category L	Category M (M <sub>p</sub> & M <sub>f</sub> )
February 2017	17,367	0	0	340	200	0	0	0

Notes:

(a) Inert construction wastes include hard rock and large broken concrete, and materials disposed as public fill.

(b) Non-inert construction wastes include general refuse disposed at landfill.

(c) Recyclable materials include metals, paper, cardboard, plastics, timber and others.

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

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

#### 2.6 Environmental Licenses and Permits

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

License/ Permit	License or Permit No.	Date of Issue	Date of Expiry	License/ Permit Holder	
Environmental Permit	EP-354/2009/D	13 March 2015	Throughout the Contract	HyD	Application for VEP on 3 March 2015 to supersede EP-354/2009/C
Construction Dust	363510	19 August 2013	Throughout the Contract	DBJV	Northern Landfall
Notification					
Construction Dust	403620	10 June 2016	Throughout the Contract	DBJV	Southern Landfall
Notification					
Chemical Waste	5213-422-D2516-01	10 September 2013	Throughout the Contract	DBJV	Northern Landfall
Registration					
Chemical Waste	5213-422-D2516-02	18 January 2017	Throughout the Contract	DBJV	Northern Landfall
Registration Chemical Waste	5213-951-D2591-01	25 May 2016	Throughout the Contract	DBJV	Southern Landfall
Registration		2	Ũ	·	
Construction Waste	7018108	28 August 2013	Throughout the Contract	DBJV	Waste disposal in Contract No. HY/2012/08
Disposal Account					
Construction Waste	7021715	12 January 2017	12 April 2017	DBJV	Vessel disposal
Disposal Account					
Waste Water Discharge	WT00017707-2013	18 November 2013	30 November 2018	DBJV	For site WA18
License					
Waste Water Discharge	WT00019248-2014	5 June 2014	30 June 2019	DBJV	For site Portion N6 and Reclamation Area E
License					
Waste Water Discharge	WT00025944-2016	15 December 2016	31 December 2021	DBJV	Southern Landfall
License					
Marine Dumping Permit	EP/MD/17-103	16 December 2016	13 June 2017	DBJV	Northern Landfall
Marine Dumping Permit	EP/MD/17-164	16 January 2017	15 February 2017	DBJV	Northern Landfall
Construction Noise Permit	GW-RW0644-16	30 November 2016	29 May 2017	DBJV	For Urmston Road in front of Pillar Point
Construction Noise Permit	GW-RW0666-16	13 December 2016	12 June 2017	DBJV	For site WA23A+B

## Table 2.13Summary of Environmental Licensing and Permit Status

ENVIRONMENTAL RESOURCES MANAGEMENT

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License/ Permit	License or Permit No.	Date of Issue	Date of Expiry	License/ Permit Holder	Remarks	
Construction Noise Permit	GW-RW0533-16	29 September 2016	28 March 2017	DBJV	For Portion N6	
Construction Noise Permit	GW-RS0860-16	25 August 2016	24 February 2017	DBJV	For Southern Landfall	
Notes:						
HyD = Highways Departmer	nt					
DBJV = Dragages - Bouygues	s Joint Venture					
VEP = Variation of Environm	ental Permit					

#### 2.7 IMPLEMENTATION STATUS OF ENVIRONMENTAL MITIGATION MEASURES

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

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

# 2.8 SUMMARY OF EXCEEDANCES OF THE ENVIRONMENTAL QUALITY PERFORMANCE LIMIT

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

Cumulative statistics are provided in *Appendix L*.

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

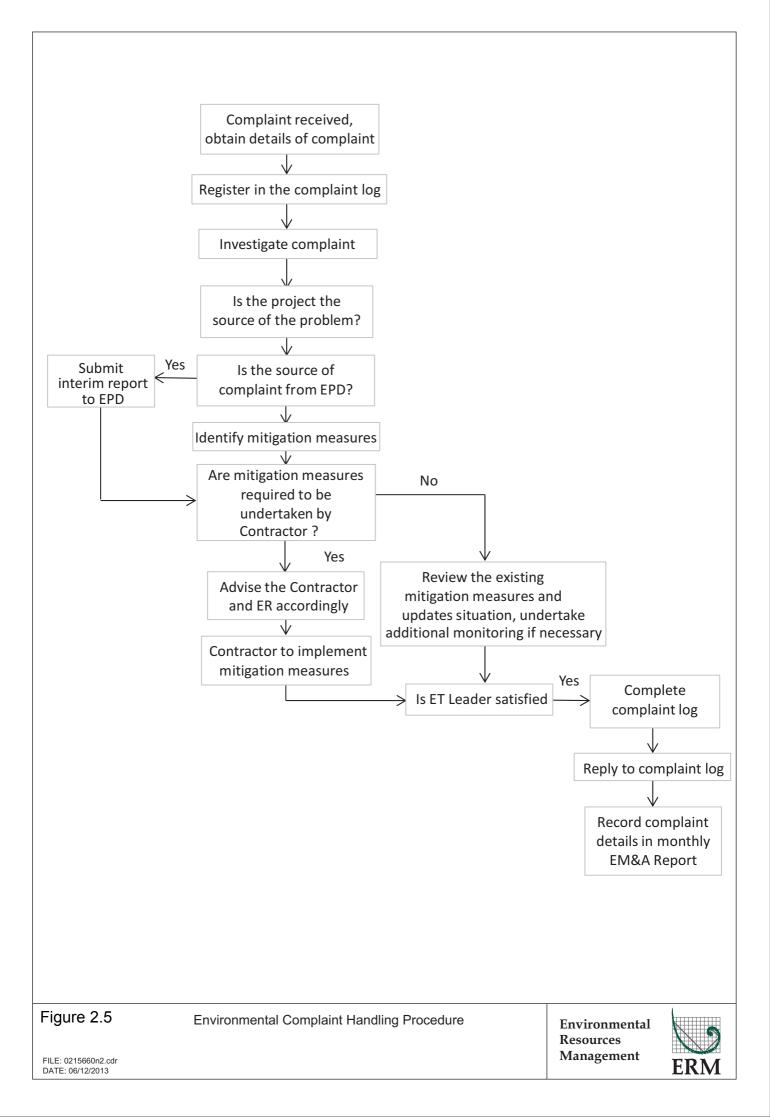
The Environmental Complaint Handling Procedure is provided in Figure 2.5.

One (1) environmental complaint case regarding sewage discharge at the east of the artificial island of the Hong Kong – Zhuhai–Macao Bridge was referred by IEC on 16 January 2017. The complaint investigation report is provided in Appendix L.

One (1) environmental complaint case regarding muddy water discharge at the site area near Ho Yeung Street was referred by EPD on 14 February 2017. The environmental complaint case on 14 February 2017 is under investigation. The complete investigation findings will be provided in the *Forty-first Monthly EM&A Report*.

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

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



#### 3.1 CONSTRUCTION ACTIVITIES FOR THE COMING MONTH

As informed by the Contractor, the major works for the Project in March 2017 are summarized in *Table 3.1*.

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

#### Works to be undertaken

Marine-based Works

- Construction of Vertical Seawall at Portion N-A; and
- Band drain and Filling works at Portion N-A

#### Land-based Works

- Box Culvert Extension at Works Area Portion N-A;
- Construction of North Ventilation Building Portion N-C;
- Construction of Cross Passage Tympanum TBM tunnel;
- Cross Passage Lining Installation TBM Tunnel;
- Excavation of Sub-sea Tunnel TBM tunnel;
- Corbel Construction TBM Tunnel;
- Sub-sea Tunnel Gallery Installation TBM tunnel;
- Jet Grouting, CSM Ground Treatment and Diaphragm Wall Construction Portion S-A

#### 3.2 KEY ISSUES FOR THE COMING MONTH

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

#### 3.3 MONITORING SCHEDULE FOR THE COMING MONTH

The tentative schedule for environmental monitoring in March 2017 is provided in *Appendix F*.

#### CONCLUSIONS AND RECOMMENDATIONS

#### 4.1 CONCLUSIONS

4

This Fortieth Monthly EM&A Report presents the findings of the EM&A activities undertaken during the period from 1 to 28 February 2017, in accordance with the Updated EM&A Manual and the requirements of EP-354/2009/D.

Air quality (including 1-hour TSP and 24-hour TSP), marine water quality and dolphin monitoring were carried out in this reporting month. No Action Level or Limit Level exceedances were recorded in the air quality monitoring of this reporting month.

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

A total of seven groups of 25 Chinese White Dolphins sightings were recorded on one survey in January 2017. All seven dolphin sightings were made in NWL, while none was sighted in NEL. Five of the seven dolphin sightings were made during on-effort search, while four of the five on-effort sightings were made on primary lines. None of these dolphin groups was associated with any operating fishing vessel.

Environmental site inspection was carried out four (4) times in February 2017. Remedial actions recommended for the deficiencies identified during the site audits were properly implemented by the Contractor.

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

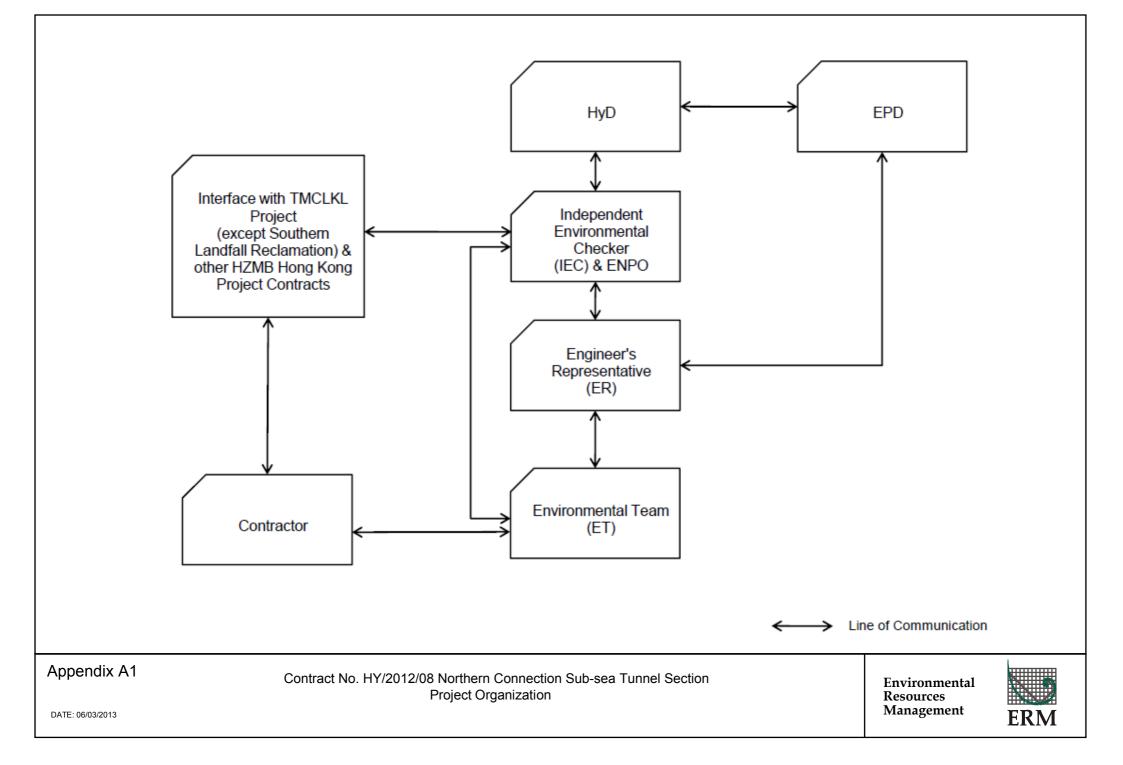
One (1) environmental complaint case regarding muddy water discharge at the site area near Ho Yeung Street was referred by EPD on 14 February 2017. The environmental complaint case on 14 February 2017 is under investigation. The complete investigation findings will be provided in the *Forty-first Monthly EM&A Report*.

No summons/ prosecution was received during the reporting period.

The marine travel route records of January and February are still under preparation. Reporting of any non-compliance of marine travel route during January, February and March will be provided in the *Forty-first Monthly EM&A Report*.

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 B

Construction Programme

ctivity Name				·				
	2016		E.L	Max	2017	Maria	h ar	
TMCLK - Northern Connection Sub-Sea Tunnel Section	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul
Contract Dates						1		
Commencement and Completion Dates								1
KD01 - Achievement of Stage 1 - Nth TBM & C&C for E&MS/TCSS		KD01 - A	chievement of Sta	ge 1 - Nth TBM & C&C	for E&MS/TCSS	1		1
Site Possession Date						1 1 1		
Portions: X1,(N10,11,13 & 14) - Sth Landfall				1	   	, , ,		
Portions: N1 to N4 & N12	Portions: N1 to N	4 & N12						
General Submissions								
Environmental								
Environmental Permit Submissions						1		
Supplementary WMP of C&C Tunnel at Sth.Landfall								
Supplementary WMP of C&C Tunnel at Sth.Landfall								1
Sediment Quality Report/Dumping Permit						1		
Southern Landfall						1		l
Southern landfall - Commencement of Shaft & C&C Tunnel Dwall								
Southern Landfall - Commencement of Retrieval Shaft Excavation				· · · · · · · · · · · · · · · · · · ·				
Sediment Sampling & Testing Plan (SSTP) - if required					1	1		J
Complete SSTP and Obtain EPD's approval								
Sediment Quality Report (SQR) - if required								
Advance Ground Investigation works for Sediment sampling						: 		
Sediment Sample Testing & Report preparation					ı 			
Dumping Permit for Load Dumping (Loading Permit) - if required								
Finalize the applivation document and submit to EPD - for Dwall								
Notify the results and issue Loading Permit for Local & Cross Boundary Crossing - for Dwall								
PAYMENT MILESTONE				 				
Design and Design Checking of the Works								
MS 2.5 SubmitAIP for seawall modification works at Southern Landfall			VIS 2.5 Submit	AIP for seawall modific	ation works at South	ern Landfall		
MS 2.6 Approve AIP for seawall modification works at Southern Landfall by the Supervising Officer					<b>♦</b>	MS 2.6 Approve AIF	for seawall modifica	tion works at Sou
MS 2.44 Approve DDA for South Ventilation Building by the Supervising Officer								J
MS 2.52 Approve DDA for Facilities Provision for TCSS by the Supervising Officer								
MS 2.60 Approve DDA for Drainage, Sewerage, Waterworks and Utilities at Northern Landfall by the Supervi:					,	1 1 1		
MS 2.69 Submit draft Operation and Maintenance Manual for all Tunnels and Cross Passgaes								
MS 2.70 Accept Operation and Maintenance Manual for all Tunnels and Cross Passgaes by the Supervising	pervising Officer							
MS 2.71 Submit draft Operation and Maintenance Manual for all works except Tunnels and Cross Passgaes								i •
MS 2.72 Accept Operation and Maintenance Manual for all works except Tunnels and Cross Passgaes by the	es by the Supervising (	Offic						1
Tunnel Boring Machine (TBM) and Back-up Equipment for TBM Tunnel	icoby the cuper tioning c				¦			
MS 3.1.6 Removal of TBM for Southbound Tunnel from Site after the completion of TBM Tunnel			MS 3 1 6 Berry	¦ val of TBM for Southb	und Tunnel from Sit	after the completion	of TBM Tuppel	
MS 3.1.12 Removal of TBM for Northbound Tunnel from Site after the completion of TBM Tunnel			NIS S.T.O Herric	1.1		und Tunnel from Site		of TPM Tuppel
MS 3.1.25 Demolition of Slurry Treatment Plant on completion								
				MS 3.1.25 Demolit	ion of Siurry Treatme	nt Plant on completio	n	1
MS 3.1.26 Complete the whole of the activities under this Cost Centre Part to the satisfaction of the Supervisin								
TBM Tunnel								
MS 3.3.4 Complete walls of retrieval shaft								
MS 3.3.5 Complete excavation to formation level for retrieval shaft and complete casting of base slab	MS 3.3.5 Complete	excavation to formati	on level for retrie	al shaft and complete	casting of base slab			
MS 3.3.6 Complete all necessary works of retrieval shaft to facilitate retrieval of TBM	<ul> <li>MS 3.3.6 Complete</li> </ul>	-	of retrieval shaft to	facilitate retrieval of T	βM			1
MS 3.3.40 Completion of excavation, support and permanent lining for 47.5% of the total length (measured or				1				
MS 3.3.41 Completion of excavation, support and permanent lining for 50% of the total length (measured on I	hent lining for 50% of the	total length (measur	ed on plan) of the	Ņ				
MS 3.3.42 Completion of excavation, support and permanent lining for 52.5% of the total length (measured or	nent lining for 52.5% of t	he total length (meas	ured on plan) of th	e				
MS 3.3.43 Completion of excavation, support and permanent lining for 55% of the total length (measured on I	ent lining for 55% of the	total length (measur	ed on plan) of the	Ň				
MS 3.3.44 Completion of excavation, support and permanent lining for 57.5% of the total length (measured or	hent lining for 57.5% of t	he total length (meas	ured on plan) of th	e				J
MS 3.3.45 Completion of excavation, support and permanent lining for 60% of the total length (measured on I		<b>.</b> .	. ,					
MS 3.3.46 Completion of excavation, support and permanent lining for 62.5% of the total length (measured or				••••••••••••••••				
MS 3.3.47 Completion of excavation, support and permanent lining for 65% of the total length (measured on I		-						
MS 3.3.48 Completion of excavation, support and permanent lining for 67.5% of the total length (measured or		-						
MS 3.3.49 Completion of excavation, support and permanent lining for 07.0% of the total length (measured on J		÷						
MS 3.3.49 Completion of excavation, support and permanent lining for 70% of the total length (measured on MS 3.3.50 Completion of excavation, support and permanent lining for 72.5% of the total length (measured on		-				-		
	pletion of excavation, su					{		
MS 3.3.51 Completion of excavation, support and permanent lining for 75% of the total length (measured on	-							
MS 3.3.52 Completion of excavation, support and permanent lining for 77.5% of the total length (measured or				1	1	1		
MS 3.3.53 Completion of excavation, support and permanent lining for 80% of the total length (measured on								
MS 3.3.54 Completion of excavation, support and permanent lining for 82.5% of the total length (measured or	MS 3.3.54 Comple			1		i i	i i	
MS 3.3.55 Completion of excavation, support and permanent lining for 85% of the total length (measured on	MS 3.3.55 Comple	tion of excavation, sup	port and perman	eht lining for 85% of th	e total length (measu	ired on plan) of the N		
MS 3.3.56 Completion of excavation, support and permanent lining for 87.5% of the total length (measured or	MS 3.3.56 Comple	tion of excavation, sup	port and perman	ent lining for 87.5% of	the total length (mea	sured on plan) of the		1
MS 3.3.57 Completion of excavation, support and permanent lining for 90% of the total length (measured on	<ul> <li>MS 3.3.57 Comple</li> </ul>	tion of excavation, sup	port and perman	eht lining for 90% of th	e total length (measu	red on plan) of the N		J.
MS 3.3.58 Completion of excavation, support and permanent lining for 92.5% of the total length (measured or	<ul> <li>MS 3.3.58 Comple</li> </ul>	tion of excavation, su	pport and permar	ent lining for 92.5% of	the total length (mea	sured on plan) of the		1
MS 3.3.59 Completion of excavation, support and permanent lining for 95% of the total length (measured on I	•	MS 3.3.59 Comple	tion of excavation	support and permane	nt lining for 95% of t	he total length (measu	red on plan) of the N	Ņ
MS 3.3.60 Completion of excavation, support and permanent lining for 97.5% of the total length (measured or	1	MS 3.3.60 Comple	tion of excavation	support and permane	nt lining for 97.5% o	the total length (mea	sured on plan) of the	è
MS 3.3.61 Completion of excavation, support and permanent lining for 100% of the total length (measured or	•	MS 3.3.61 Comple	tion of excavation	support and permane	nt lining for 100% of	the total length (meas	sured on plan) of the	
MS 3.3.104 Completion of excavation, support and permanent lining for 70% of the total length (measured or		-		asured on plan) of the	-		. /	1
MS 3.3.105 Completion of excavation, support and permanent lining for 72.5% of the total length (measured i		Ũ	Ŭ	easured on plan) of th				
MS 3.3.106 Completion of excavation, support and permanent lining for 75% of the total length (measured or		U U	U U	asured on plan) of the		1		
MS 3.3.107 Completion of excavation, support and permanent lining for 75.5% of the total length (measured of MS 3.3.107 Completion of excavation, support and permanent lining for 77.5% of the total length (measured of the total length) (measured of total length) (measur		Ū.		easured on plan) of th	i	1		
MS 3.3.108 Completion of excavation, support and permanent lining for 77.3% of the total length (measured or MS 3.3.108 Completion of excavation, support and permanent lining for 80% of the total length (measured or				• <u>-</u>		, !		
wis 5.5. Too completion of excavation, support and permanent ining for 80% of the total length (measured or	mpletion of excavation, s	support and permane	in ining for 80% (	ine lotal length (mea	sured on plan) of the	1		;

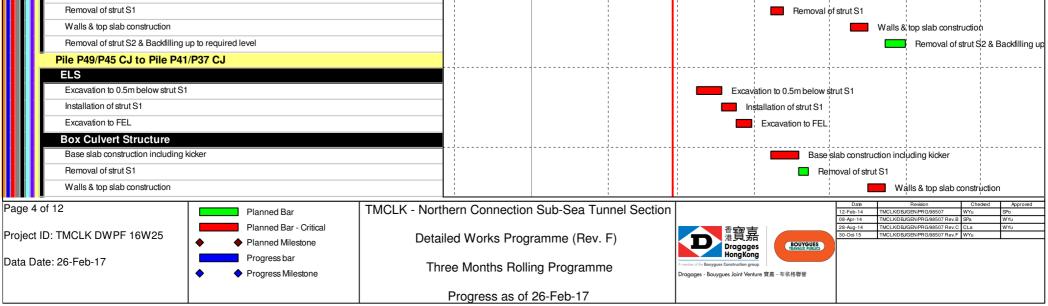
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Page 1 of 12	Planned Bar	TMCLK - Northern Connection Sub-Sea Tunnel Section		Date 12-Feb-14	Revision TMCLK/DBJ/GEN/PRG/98507	Checked WYu	Approved SPo
Project ID: TMCLK DWPF 16W25	Planned Bar - Critical Planned Milestone	Detailed Works Programme (Rev. F)	た 推 費 嘉 Dragages	08-Apr-14 28-Aug-14 30-Oct-15	TMCLK/DBJGEN/PRG/98507 Rev.B TMCLK/DBJGEN/PRG/98507 Rev.C TMCLK/DBJGEN/PRG/98507 Rev.F	CLa	WYu WYu
Data Date: 26-Feb-17	<ul><li>Progress bar</li><li>Progress Milestone</li></ul>	Three Months Rolling Programme	HongKong A methor of the Bouygues Construction group Drogages - Bouygues Joint Venture 寶嘉 - 布依格聯營				
		Progress as of 26-Feb-17					

Activity Name								
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MS 3.3.3 Complete 50% of ground treatment for excavation of all Type 2 Cross Passages(Percentage to be	MS 3.3.3 Complete	e 50% of ground trea	tment for excavation	n of all Type 2 Cross F	assages(Percentage	e to be certified for 50	%	
MS 3.3.5 Complete 50% of excavation and support for all Type 1 Cross Passages(Percentage to be certified	f	MS 3.3.5 Complet	e 50% of excavation	n and support for all	ype 1 Cross Passage	es(Percentage to be o	ertified for 50% com	plet
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MS 4.1.2 Complete 20% of total length (measured on plan) of temporary retaining walls for excavation of Cu							1 i	
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MS 4.1.5 Complete 50% of total length (measured on plan) of temporary retaining walls for excavation of Co	t-		]				, , ,	
MS 4.1.6 Complete 60% of total length (measured on plan) of temporary retaining walls for excavation of Co	t-							
MS 4.1.7 Complete 70% of total length (measured on plan) of temporary retaining walls for excavation of Co	t-						1	
MS 4.1.8 Complete 80% of total length (measured on plan) of temporary retaining walls for excavation of Cu	t-						1	
MS 4.1.9 Complete 90% of total length (measured on plan) of temporary retaining walls for excavation of Co	t-						, i	
MS 4.1.10 Complete 100% of total length (measured on plan) of temporary retaining walls for excavation of	с						1 i	
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MS 4.1.13 Complete 60% of excavation for Cut-and-cover tunnel	plete 60% of excavation		-				1 1 1	
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MS 4.1.15 Complete 100% of excavation for Cut-and-cover tunnel			}	MS 4.1.15 Compl	ete 100% of excavati	on for Cut-and-cover	unnel	
MS 4.1.16 Complete permanent tunnel structure for 10% of the total length (measured on plan) of Cut-and-	x asured on plan) of Cut-	and-cover Tunnel						
MS 4.1.17 Complete permanent tunnel structure for 20% of the total length (measured on plan) of Cut-and-	$\propto$ of the total length (measure	sured on plan) of Cut	and-cover Tunne				í.	
MS 4.1.18 Complete permanent tunnel structure for 30% of the total length (measured on plan) of Cut-and-	× hel structure for 30% of	the total length (meas	ured on plan) of C	ut-and-cover Tunnel				
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MS 4.1.20 Complete permanent tunnel structure for 50% of the total length (measured on plan) of Cut-and-			1	1	t-and-cover Tunnel			
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MS 4.1.24 Complete permanent tunnel structure for 90% of the total length (measured on plan) of Cut-and-	x				MS 4.1.24 Comple	ete permanent tunnel	structure for 90% of	the total length (m
MS 4.1.26 Complete excavation for 50% of total length (measured on plan) of all Cross Passages				1	   	   		
MS 4.1.27 Complete excavation for 100% of total length (measured on plan) of all Cross Passages								
MS 4.1.29 Complete pavement for 50% of the total length (measured on plan) of Cut-and-cover Tunnel		MS 4.1.29 Comple	te pavement for 5	% of the total length	(measured on plan) o	d Cut-and-cover Tunr	tel	
Cut-and-cover Tunnel at Northern Landfall								
MS 4.2.22 Complete tunnel internal structure for 50% of NB Northern Landfall TBM Tunnel	B Northern Landfall TE	3M Tunnel						
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MS 4.2.29 Complete 100% of permanent lining and internal structures for all Northern Landfall Cross Passa		-	structures for all N	orthern Landfall Cros	sPassages		i i	
MS 4.2.30 Complete Permanent tunnel structure for 25% of Cut and Cover Tunnel	of Cut and Cover Tunn	el					)   	
MS 4.2.31 Complete Permanent tunnel structure for 50% of Cut and Cover Tunnel	nel structure for 50% of							
MS 4.2.32 Complete Permanent tunnel structure for 75% of Cut and Cover Tunnel	MS 4.2.32 Comple	ete Permanent tunnel	structure for 75%	of Cut and Cover Tunr	hel			
MS 4.2.34 Complete Permanent junction structure at interface between Cut-and-cover and TBM Tunnel	d-cover and TBM Tunne	e						
Approach Ramp Structures to Cut-and-cover Tunnel at Southern Landfall								
MS 5.1.2 Complete 40% of excavation for approach ramp structures								
MS 5.1.3 Complete 60% of excavation for approach ramp structures							1	
MS 5.1.4 Complete 80% of excavation for approach ramp structures			·			·	;i 	
MS 5.1.5 Complete 100% of excavation for approach ramp structures	_						1 I	
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MS 5.1.7 Complete retaining wall foundation for 20% of the total length (measured on plan) of approach rai								
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MS 5.1.15 Complete retaining wall foundation for 100% of the total length (measured on plan) of approach							1	
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MS 6.2.13 Complete drainage installation of 20% length of total length (measured on plan) of drainage pip	s				MS 6 2 13 Come	¦ ete drainage installati	on of 20% length of t	otal length (moose
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MS 9.1.2 Complete 25% of plinth, hoisting facilities and accessories, etc.	pisting facilities and acce	essories, etc.					:	
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MS 9.1.6 Complete 75% of plinth, hoisting facilities and accessories, etc.			1			MS 9.1.6 Complete	-	
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Pile A59/A37 CJ to Pile A37/A35 CJ         Box Culvert Structure         Pile action including kider         Base site construction         Base site construction         Base site construction         Pile A37/A35 CJ to Pile A37/A35 CJ         Base site construction         Base site construction         Pile A37/A35 CJ to Pile A37/A35 CJ         ELS         Base site construction         Pile A37/A35 CJ to Pile A37/A35 CJ         ELS         Base site construction         Pile A37/A35 CJ to Pile A37/A35 CJ         ELS         Base site construction         Pile A37/A35 CJ to Pile A37/A35 CJ         Base site construction         Pile A37/A35 CJ to Pile A37/A35 CJ         Base site construction         Planced Bar         Planced Bar         Planced Bar         Planced Bar         Planced Bar <t< td=""><td></td><td></td><td></td><td></td><td></td><td>1 1 1</td><td></td><td></td></t<>						1 1 1		
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Perroval of strut S2 & Backilling up to required level         Pile AS7/AS5 CJ to Pile A35/A33 CJ         ELS         Exacutation to FEL         Box Culvert Structure         Pile day construction         Base stab construction induding kidler         Removal of strut S2 & Backilling up to required level         Pile A33/A33 CJ         Exacutation to FEL         Base stab construction         Removal of strut S2 & Backilling up to required level         Pile Cap construction         Base stab construction         Removal of strut S2 & Backilling up to required level         Pile cap construction         Base stab construction         Removal of strut S2 & Backilling up to required level         Pile cap construction         Base stab construction         Planed Bar	Removal of strut S1							
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Box Culvert Structure       Plic cap construction         Base slab construction induding kidker         Removal of strut S1         Walls & top slab construction         Removal of strut S2 & Baddilling up to required level         Plic A35/A33 CJ to Plie A33/P117 CJ         ELS         Excavation to FLL         Box Culvert Structure         Plic ap construction         Removal of strut S2         Base slab construction         Detailed Works Programme (Rev. F)         Planned Miestone         Progress bar         <								
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ELS       Excavation to FEL         Box Culvert Structure       Pile cap construction         Pile cap construction       Base slab construction including kicker         Page 3 of 12       Planned Bar         Project ID: TMCLK DWPF 16W25       Planned Bar - Critical         Project ID: TMCLK DWPF 16W25       Planned Milestone         Progress bar       Progress bar         Progress Milestone       Progress Milestone						1 1 1		
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age 3 of 12       Planned Bar         roject ID: TMCLK DWPF 16W25       Planned Milestone         ata Date: 26-Feb-17       Progress Milestone    Three Months Rolling Programme          Three Months Rolling Programme       Detailed Works Programme	· · ·	1			1 1 1			
roject ID: TMCLK DWPF 16W25 ata Date: 26-Feb-17 Planned Milestone Progress Milestone Pr		hern Connection Sub-	Sea Tunnel Sectio	on l	1			
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Ander 2 Ser 2	Progress bar	-	. ,	HongKo	ng			
	ala Dale. 201 eb 17	ree Months Rolling Pro	ogramme					
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ame	2016				2017			
	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul
Removal of strut S1						1		
Walls & top slab construction					     	1	     	1
Removal of strut S2 & Backfilling up to required level			1		-     	1	1 1	1
Ch150-250 Marine Section					1		1 1 1	1
ELS & Structure							1	
Pile A33/P117 CJ to Pile P113/P109 CJ								
Box Culvert Structure					'     			
Base slab construction including kicker					, 1 1		, 1 1	
Removal of strut S1					1	1	1	
Walls & top slab construction					1		1 1 1	-
Removal of strut S2 & Backfilling up to required level							1 1	
Pile P113/P109 CJ to Pile P105/P101 CJ					· 		· ·	
Box Culvert Structure								
Base slab construction including kicker					- - - - -			
Removal of strut S1							1 1 1	
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Walls & top slab construction					, ,		, , ,	
Removal of strut S2 & Backfilling up to required level							1	
Pile P105/P101 CJ to Pile P97/P93 CJ								
Box Culvert Structure					 		 	
Base slab construction including kicker					 		 	1
Removal of strut S1							i   	
Walls & top slab construction			1			   		
Pile P97/P93 CJ to Pile P89/P85 CJ					1		1 1 1	
Box Culvert Structure							   	-
Base slab construction including kicker							1	
Removal of strut S1							,   	
Walls & top slab construction								
Pile P89/P85 CJ to Pile P81/P77 CJ								
Box Culvert Structure							1	-
Base slab construction including kicker							   	-
Removal of strut S1							1 1 1	-
Walls & top slab construction								
Pile P81/P77 CJ to Pile P73/P69 CJ								
Box Culvert Structure								
Base slab construction including kicker					-     		1	
Removal of strut S1					   	! ! d	   	
Walls & top slab construction							1	
h250-380 Marine Section								
New Activity					-     		1	1
ELS & Structure								
Geotextile - Phase 2 Reclamation - along combi wall system		Phase 2 Reclamation			, ,		, ,	
Sand Blanket - Phase 2 Reclamation - along combi wall system	Sand E	llanket - Phase 2 Red	1	1			1 1 1	-
Band Drain - Phase 2 Reclamation - along combi wall system		Ba	and Drain - Phase	Reclamation - along	combi wall system		1 1 1	-
Public Fill - Phase 2 Reclamation - along combi wall system			Public F	il - Phase 2 Reclamat	on - along combi wa	all system	1	
Pile P73/P69 CJ to Pile P65/P61 CJ								
ELS								
Excavation to 0.5m below strut S1		]		Excavation to 0.5m b	elow strut S1		   	
Installation of strut S1				Installation of stru	ut S1		1	
Excavation to FEL				Excavation to	FEL		1	
Box Culvert Structure							1	
Base slab construction including kicker				Ba	se slab construction	includina kicker	 	
Removal of strut S1					Removal of strut S1		J	
System Formwork Assmebly & Setup						stem Formwork Assm	ebly & Setun	
Walls & top slab construction				-	1	Walls & top slab co	1	
Removal of strut S2 & Backfilling up to required level								- 
						Kemov	al of strut S2 & Backfi	hing up to
Pile P65/P61 CJ to Pile P57/P53 CJ			<b>/</b>	i 			 	
ELS			: L				1	
Excavation to 0.5m below strut S1					5m below strut S1		1	
Installation of strut S1				Installation			1	1
Excavation to FEL				Excavat	ion to FEL		1	
Box Culvert Structure								ļ
Base slab construction including kicker						ction including kicker		
Removal of strut S1					Removal of str	ut S1	1 1	1
Walls & top slab construction						Walls & top	slab construction	1
Removal of strut S2 & Backfilling up to required level						Re	; moval of strut S2 & B	ackfilling
Pile P57/P53 CJ to Pile P49/P45 CJ					1			
ELS								
Excavation to 0.5m below strut S1				Excavation	to 0.5m below strut	\$1	1	
Installation of strut S1					tion of strut S1		 	
Excavation to FEL					cavation to FEL		1 1	1 1
Box Culvert Structure							1	1
Base slab construction including kicker					Race clob co	hstruction including k		
			1		Base siab co			1



Activity Na	me	-	2016				2017			
			Dec	Jan	Feb	Mar	Apr	May	Jun	Jul
	Pile P41/P37 CJ to Pile P33/P29 CJ ELS								, , , ,	
	Excavation to 0.5m below strut S1					E	xcavation to 0.5m be	low strut S1	     	
	Installation of strut S1						Installation of stru	t¦S1		
	Excavation to FEL						Excavation to	FEL		
	Box Culvert Structure Base slab construction including kicker							Base slab construction	i i i a alcalia a bialea a	
	Removal of strut S1							Removal of strut S1		
	Walls & top slab construction						_	_	Walls & top slab c	onstruction
	Pile P33/P29 CJ to Pile P25/P21 CJ									
	ELS									
	Excavation to 0.5m below strut S1 Installation of strut S1						Excavation to 0.5	4	, , , ,	
	Excavation to FEL							vation to FEL		
	Box Culvert Structure									
	Base slab construction including kicker							Base slab const	ruction including kick	er
	Removal of strut S1						, , , ,	Removal of s	strut S1	
	Pile P25/P21 CJ to Pile P17/P13 CJ ELS									
	Excavation to 0.5m below strut S1						Excavation	; ito 0.5m below strut S	1	
	Removal of Ch365 Sheet Pile Wall Anchor Wall (Stage 1)					-		noval of Ch365 Sheet	i	all (Stage 1)
	Removal of Ch365 Sheet Pile Wall Anchor Wall (Stage 2)							Removal of Ch365 S	heet Pile Wall Anch	or Wall (Stage 2)
	Installation of strut S1							llation of strut S1		
	Excavation to FEL Removal of Ch365 Sheet Pile Wall Anchor Wall (Stage 3)							Excavation to FEL	265 Sheet Dile Well	Apphar Mall (Sta
	Box Culvert Structure								365 Sheet Pile Wall	Androi Wall (Sta
	Base slab construction including kicker							Base s	ab construction inclu	iding kicker
	Removal of strut S1								emoval of strut S1	
	Pile P17/P13 CJ to Pile P09/P05 CJ						   		   	
	ELS Excavation to 0.5m below strut S1								m holow strut C1	
	Installation of strut S1							Excavation to 0.5	on of strut S1	
	Excavation to FEL							4	xcavation to FEL	
	Box Culvert Structure								   	
	Base slab construction including kicker								Base slab c	onstruction includ
	Pile P09/P05 CJ to End Wall CJ ELS									
	Excavation to 0.5m below strut S1							Excavation to (	).5m below strut S1	
	Installation of strut S1								Installation of strut \$	51
N	liscellaneous works								1 1 1	
	nspection Manhole (IM)								1 1 1	
	Inspection Manhole IM-01 to IM-04 & backfilling to +6.0mPD					   	   		   	
	Stop Log Opening (SLO) SLO-01 to SLO-05 & backfilling to +6.0mPD									
	Balance Hole (BH)									
	BH-01 to BH-03 & backfilling to +6.0mPD									
	BH-07 to BH-09 & backfilling to +6.0mPD		BH-07 to BH-09 &	backfilling to +6.0mP	Þ		   		, , ,	
	rth Launching Shaft esign Submission								1 1 1	
	C1) DDA for North C&C Tunnel Permanent Structure									
	SO's Review									
	SO Approval with Condition Received					- - 	! ! !		     	
	rth Ventilation Shaft								1 1 1	
	onstruction									
	NVS - ML03 Tunnel Structure									
	NVS - ML02 Tunnel Structure						, , , ,		, , ,	
	CLK VO-008 - Construction of Viaduct Foundations at Portion N6A							1	1	
	aduct Pile Cap								1 1 1	
	Pier G1b								1     	
	Pile Cap G1b - ELS Foundation	-		Pile Cap G1b - I	ELS Foundation		   		1 1 1	
	Pile Cap G1b - Removal of Existing ground slab			Pile Cap G	1b - Removal of E	kisting ground slab			1	
	Pile Cap G1b - Excavation & ELS Installation					Excavation & ELS Ins			1 1 1	
	Pile Cap G1b - Blinding Concrete Pile Cap G1b - Rebar & Concreting				Pile Cap C	http://www.alinding.concre	1		1 1 1	
	Pile Cap G1b - Rebar & Concreting Pile Cap G1b - Backfilling & Temp Reinstatement					Pile Cap G1b - Re	bar & Concreting - Backfilling & Tem	Reinstatement	1 1 1	
	Pier H1b							1		
	Pile Cap H1b - ELS Foundation						Pile Cap H1b	- ELS Foundation	1 1 1	
	Pile Cap H1b - Removal of Existing ground slab						Pile Cap	H1b - Removal of Exi		
	Pile Cap H1b - Excavation & ELS Installation								Excavation & ELS I	
	Pile Cap H1b - Blinding Concrete Pile Cap H1b - Rebar & Concreting							Pile Cap H1	b - Blinding Concret	
	Pile Cap H1b - Hebar & Concreting Pier G1c						   		Pile Cap H1b - Re	Juar & Concreting
	Pile Cap G1c - Preparation for ELS								1 1 1	
	Pile Cap G1c - Removal of Existing ground slab						   		1 1 1	
	Pile Cap G1c - Excavation & ELS Installation									
	Pile Cap G1c - Blinding Concrete					   	   	   	   	
	Pile Cap G1c - Rebar & Concreting Pile Cap G1c - Backfilling & Temp Reinstatement								1 1 1	
	Pile Cap G1c - Backhilling & Temp Reinstatement Pier H1c						1 1 1		1     	
	Pile Cap H1c - Preparation for ELS								   	
	Pile Cap H1c - Removal of Existing ground slab						L     	J	J     	
	Pile Cap H1c - Excavation & ELS Installation									
Page 5 of	12 Planned Bar TMC	LK - North	nern Connectior	ו Sub-Sea Tur	nel Section			Date 12-Feb-14 TMCLK/DBJ	Revision Che IGEN/PRG/98507 WYu	cked Approved SPo
	Planned Bar - Critical					│ ┃	T	08-Apr-14 TMCLK/DBJ 28-Aug-14 TMCLK/DBJ	IGEN/PRG/98507 Rev.B SPa IGEN/PRG/98507 Rev.C CLa	SPo WYu WYu
Project ID:	TMCLK DWPF 16W25	Detail	led Works Prog	ramme (Rev. I	=)	下	BOUYGUES		IGEN/PRG/98507 Rev. F WYu	
Data Date	26-Feb-17 Progress bar	Thr	ee Months Rolli	ng Programm	9	A member of the Bouygues Construction gro	up l			
	<ul> <li>Progress Milestone</li> </ul>					Dragages - Bouygues Joint Vent	ure 寶嘉 · 布依格聯營			
			Progress as of	26-Feb-17						

vity Name								
	2016			Mar	2017	Maria	l hue	
North Approach TBM Tunnelling & Cross Passage	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul
Construction					1		1	
Northern Landfall Surface Setup for TBM operation				1	1		1	
								di - 0
Gantry Removal at North TBM Launching Shaft				1:		Gantry Removal at No	-	
Slurry Treatment Plant Decommissioning & Removal					i	S	lµrry Treatment Plar	nt¦De commissio
Gantry Removal at North Ventilation Shaft					1		1	
North Approach Tunnel Internal Structure - NB					1			
CP51 - Excavation & Lining completion	xcavation & Lining co	mpletion			1		1	
NB - North TBM Tunnel - Corbel & Cable Trough installation	el - Corbel & Cable Ti	rough installation			   	1	 ! !	1
NB - North TBM Tunnel - OHVD Slab installation	Tunnel - OHVD Slab i	nstallation						
NB - North TBM Tunnel - Fire proofing and Provision to E&MS and TCSS Contract for KD1	BM Tunnel - Fire prod	ofing and Provision to	E&MS and TCSS	Contract for KD1				
North Approach Tunnel Internal Structure - SB		3						
SB - North TBM Tunnel - Corbel & Cable Trough installation	SP Nort	the TRM Tuppel Corbo		retallation				
-		h TBM Tunnel - Corbe						
SB - North TBM Tunnel - OHVD Slab installation		North TBM Tunnel - O	1	1				
SB - North TBM Tunnel - Fire proofing & Provision to E&MS and TCSS Contract for KD1		SB - North TBM Tunne	el - Fire proofing &	Provision to E&MS and	d TCSS Contract for	KD1		
North Approach Cross Passage								
CP51 - Traditional Method								
CP Finishing & Demobilization	ning & Demobilization			-				
North Ventilation Building							1	
Design Submission								
(A11) Submissons to Design Advisory Panel of ArchSD								
ArchSD's comment					1			
(I1) DDA for North Vent.Bldgs. GBP & Arch.Submission								
IPs Review								
IP's No Objection Received								
				1			1	
SO's Review							1	
SO Approval with Condition Received				•				
(I1) DDA for North & South Vent.Bldg. ABWF works								
Designer to Reply RtC + Update Submission								-
Submit Updated DDA to SO/ ICE/ IPs				-				
ICE Approval & Issue Check Cert								
Submit ICE Check Cert to SO								
IPs Review								
IP's No Objection Received			1					
SO's Review								-
SO Approval with Condition Received			1	-				
(I2) DDA for North Vent.Bldgs.Structural Design incl.Vent.Connections								
IPs Review								
IP's No Objection Received					!		 !	
SO's Review								
SO Approval with Condition Received								
(I3) DDA for North & South Vent.Bldgs. Service and E&M Provision								
IPs Review								
IP's No Objection Received				•				
SO's Review								
SO Approval with Condition Received				-				
Construction								
Substructure	Substructure							
Superstructure						Superstructure		
Finishing Works								1
North Reclamation (Phase 2)					1			
								-
Construction Dredging - Phase 2 (Zone G)		Drodalaa Dhaaraa "	Zana C)					
		Dredging - Phase 2 (2						
VS - Rock Grade 400 - Zone G		VS - Rock G	rade 400 - Zone G				1	
VS - Levelling Stone & Seawall Block - Zone G			VS - Le	evelling Stone & Seawa	II Block - Zone G		1	
VS - Rock Type A - Zone G				VS - Rock Type A -	Zone G			
Vertical Seawall - Bermstone - (Zone G)				Verti	çal Seawall - Berm	stone - (Zone G)	1	
Vertical Seawall - Seawall Coping - (Zone G)							Vertical Seav	wall - Seawall
Geotextile (Zone G)		Geotextile	(Zone G)	<b>1</b>				
Sand Blanket (Zone G)			Sand Blanket (Zor	ne G)				
Band Drain (Zone G)			1				1	
				Band Drain (Zone G)				
Reclamation - Phase 2				Reclamatio	n - Phase 2			
Backfilling to +10mPD - Phase 2			<u> </u>			Backfilling to +10mF	PD - Phase 2	ļ
Surcharge - Phase 2								1
North Surface Roadworks, Utility & Drainage works								
Construction							1	
North Landfall - Underground Sewerage & Drainage - Summary					<u> </u>			!
North Landfall - Underground Sewerage & Drainage - Portion N5		<b>_</b>						
Portion N7 - Removal of Barging Point & Surcharge Removal to +6mPD							vol of Baraira Bai	d C
				<b> </b>		- Fortion N7 - Remo	val of Barging Point	a surcharge
North Landfall - Underground Sewerage & Drainage - Portion N7								
North Landfall - Watermain & Undergournd Utilities - Summary					. –		1	
North Landfall - Watermain & Undergournd Utilities - Zone E								North
Sub-sea Tunnel								1

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Approved SPo

Checked

7 WYu 7 Rev.B SPa

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Sub-sea TBM Tunnelling

#### Major Procurement

## Precast Semgnet ID12.40 - Production for Sub-sea TBM Tunnel

ID12.40 TBM Segment Ring Fabrication - 12 rings per day

#### **Design Submission**

#### (G1) DDA for TBM Tunnel Lining Structural Design - Sub-sea tunnel

Sub-sea TBM Tunnel Segment - Fabrication

#### (G3) DDA for TBM Tunnel Internal Structures (Sub-sea)

Sub-sea Tunnel - Precast Gallery Fabrication

#### Construction

## Sub-sea TBM Tunnel - NB

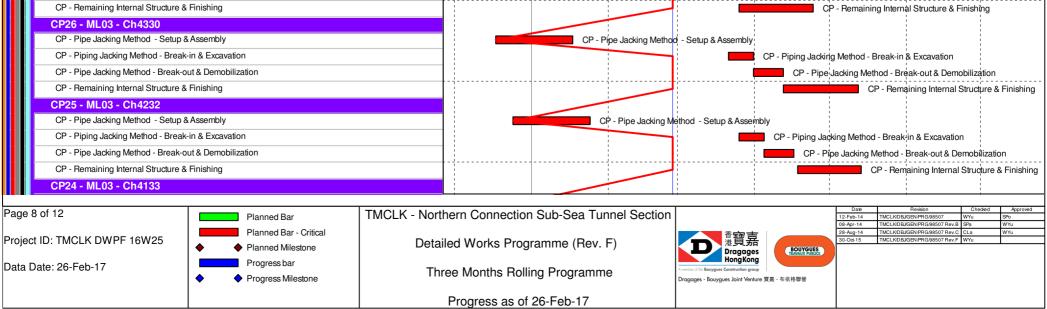
Project ID: TMCLK DWPF 16W25

Data Date: 26-Feb-17

IB ID12.2m - S881						
<ul> <li>Planned Bar</li> <li>Planned Bar - Critical</li> <li>Planned Milestone</li> <li>Progress bar</li> <li>Progress Milestone</li> </ul>	TMCLK - Northern Connection Detailed Works Progr Three Months Rollin Progress as of	ramme (Rev. F) ng Programme	たmeter of the Bacyrooms Joint Venture 別	BOUYCUES TRAMAR PARKS g蓋 - 布依格攀登	Date 12-Feb-14 08-Apr-14 28-Aug-14 30-Oct-15	
	riogiess as or					_

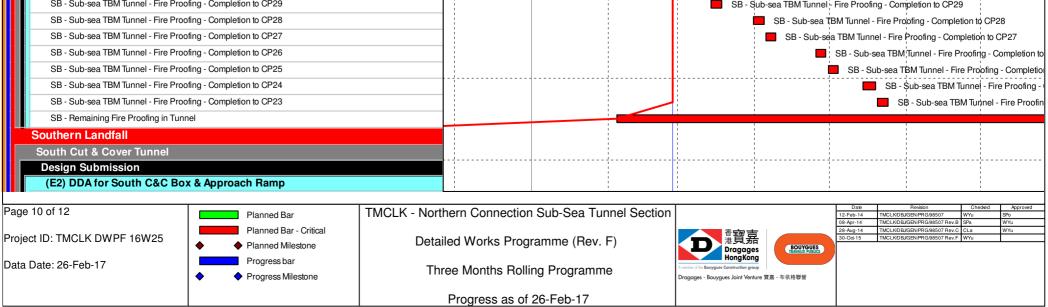
tivity Name										
			2016 Dec	Jan	Feb	Mar	2017 Apr	May	Jun	Jul
NB - Sub-sea TBM Tunnel - ALLUVI	JMS sandy with Trimix (Ch4600 to 4400 - 200m	ו)		ALLUVIUMS sandy with T				way		
	JMS sandy with Trimix (Ch4400 to 4300 - 100m			el - ALLUVIUMS sandy wi		· · · · · · · · · · · · · · · · · · ·	1 1 1			
	JMS sandy with Trimix (Ch4300 to 4200 - 100m			unnel - ALLUVIUMS sand			(m)		1	
	JMS sality with Trimix (Ch4200 to 3830 - 370m)	,		- Sub-sea TBM Tunnel -		i	i'		1	
	JMS sandy with Trimix (Ch3830 to 3710 - 120m	n)		NB - Sub-sea TBM Turnel -				20m)		
		7								
	JMS silty with Trimix (Ch3710 to 3590 - 120m)			NB - Sub-sea TBI		1	1	1		
	JMS sandy with Trimix (Ch3590 to 3460 - 130m	1)				- ALLUVIUMS sandy		· · · · · · · · · · · · · · · · · · ·		
	JMS silty with Trimix (Ch3460 to 3360 - 100m)			NB - Su	ub-sea TBM Tur	nnel - ALLUVIUMS sil	ty with Trimix (Ch346	0 to 3360 - 100m)	1	1
NB - Sub-sea TBM Tunnel - ALLUVI	JMS sandy with Trimix (Ch3360 to 3160 - 200m	1)			NB - Sub-se	ea TBM Tunnel - ALLU	UVIUMS sandy with 1	iimix (Ch3360 to 316	0 - 200m)	
NB - Sub-sea TBM Tunnel - ALLUVI	JMS silty with Trimix (Ch3160 to 3060 - 100m)				NB-S	ub-sea TBM Tunnel -	ALLUVIUMS silty wit	rrimix (Ch3160 to 3	060 - 100m)	
NB - Sub-sea TBM Tunnel - ALLUVI	JMS silty with Trimix (Ch3060 to 2920 - 140m)					NB - Sub-sea TBM Tu	nnel - ALLUVIUMS	ailty with Trimix (Ch30	60 to 2920 - 140m)	1
NB - Sub-sea TBM Tunnel - ALLUVI	JMS silty with Trimix (Ch2920 to 2820 - 100m)					NB - Sub-sea TE	M Tunnel - ALLUVIL	MS silty with Trimix (C	h2920 to 2820 - 10	dm)
NB - Sub-sea TBM Tunnel - ALLUVI	JMS sandy with Trimix (Ch2820 to 2720 - 100m	1)				NB - Sub-se	a TBM Tunnel - ALLI	VIUMS sandy with Ti	mix (Ch2820 to 272	20 - 100m)
NB - Sub-sea TBM Tunnel - ALLUVI	JMS silty with Trimix (Ch2720 to 2673 - 47m)					NB - Sub-	; sea TBM Tunnel - AL	LUVIUMS silty with Tr	imix (Ch2720 to 267	'3 - 47m)
NB - Sub-sea TBM Tunnel - ALLUVI	JMS silty with Trimix (Ch2673 to 2574 - 99m)							- ALLUVIUMS silty w	·	
NB - Sub-sea TBM Tunnel - ALLUVI	JMS silty with Trimix (Ch2574 to 2512 - 62m)							el - ALLUVIUMS silt		
S881 - TBM Removal at Southern La	· · · ·								S881 - TBM F	i -
								1	3001 - I BIVI F	
Sub-sea TBM Tunnel - SB II		A								-
	JMS sandy with Trimix (Ch3611 to 3481 - 130m	1)	<u> </u>	unnel - ALLUVIUMS san	·					
	JMS silty with Trimix (Ch3481 to 3381 - 100m)		SB - Sub-sea T	BM Tunnel - ALLUVIUMS	S silty with Trimi	(Ch3481 to 3381 - 1	00m)			
SB - Sub-sea TBM Tunnel - ALLUVI	JMS sandy with Trimix (Ch3381 to 3181 - 200m	1)	SB - Su	ub-sea TBM Tunnel - ÁLI	LUVIUMS sand	with Trimix (Ch3381	to 3181 - 200m)			-
SB - Sub-sea TBM Tunnel - ALLUVI	JMS silty with Trimix (Ch3181 to 3081 - 100m)		SE SE	B - Sub-sea TBM Tunnel	- ALLUVIUMS	silty with Trimix (Ch318	81 to 3081 - 100m)			-
SB - Sub-sea TBM Tunnel - ALLUVI	JMS silty with Trimix (Ch3081 to 2941 - 140m)			SB - Sub-sea TBM	Tunnel - ALLU	UMS silty with Trimix	(Ch3081 to 2941 - 1	40m)		1
SB - Sub-sea TBM Tunnel - ALLUVI	JMS silty with Trimix (Ch2941 to 2841 - 100m)		1	SB - Sub-sea T	BM Tunnel - Al	LUVIUMS silty with Tr	rimix (Ch2941 to 284	1 - 100m)		-
SB - Sub-sea TBM Tunnel - ALLUVI	JMS sandy with Trimix (Ch2841 to 2741 - 100m	n)				- ALLUVIUMS sandy				
	JMS silty with Trimix (Ch2741 to 2694 - 47m)					el - ALLUVIUMS silty				-
	JMS silty with Trimix (Ch2694 to 2595 - 99m)					Tunnel - ALLUVIUMS				-
	JMS silty with Trimix (Ch2595 to 2533 - 62m)					BM Tunnel - ALLUVI			m)	i
	,				sea-סט - סט sea	ALLUVI				-
SB - TBM Removal at Southern Land							SB-IBM Remo	γal at Southern Land	(all	
Sub-sea TBM Tunnel - NB -	•									l
NB - Sub-sea TBM Tunnel - Precast				Gallery - Completion to C						1
NB - Sub-sea TBM Tunnel - Precast			BM Tunnel - Precast In	vert Gallery - Completion	n to CP32					1
NB - Sub-sea TBM Tunnel - Precast	nvert Gallery - Completion to CP31		sea TBM Tunnel - Prec	ast Invert Gallery - Comp	pletion to CP31					-
NB - Sub-sea TBM Tunnel - Precast	nvert Gallery - Completion to CP30		Sub-sea TBM Tunnel - F	Precast Invert Gallery	ompletion to Cl	?\$0				}
NB - Sub-sea TBM Tunnel - Precast	nvert Gallery - Completion to CP29		B - Sub-sea TBM Tunn	el - Precast Invert Gallery	y - Completion	o¦CP29			η ¦	-,
NB - Sub-sea TBM Tunnel - Precast	nvert Gallery - Completion to CP28		NB - Sub-sea TBM T	unnel - Precast Invert Ga	allery - Complet	on to CP28				-
NB - Sub-sea TBM Tunnel - Precast	Invert Gallery - Completion to CP27		NB - Sub-sea TE	BM Tunnel - Precast Inve	rt Gallery - Cor	bletion to CP27				-
NB - Sub-sea TBM Tunnel - Precast				ea TBM Tunnel - Precas		1				-
NB - Sub-sea TBM Tunnel - Precast	,			Sub-sea TBM Tunnel - Precasi						
NB - Sub-sea TBM Tunnel - Precast				IB - Sub-sea TBM Tunhel			1			
NB - Sub-sea TBM Tunnel - Precast			, i 📜 🗡	NB - Sub-sea TBM Tu						
NB - Sub-sea TBM Tunnel - Precast	nvert Gallery - Completion to CP22			NB - Sub-sea TBI	M Tunnel - Prec	ast Invert Gallery - Co	ompletion to CP22			i.
NB - Sub-sea TBM Tunnel - Precast	nvert Gallery - Completion to CP21			NB - Sub-sea	TBM Tunnel - F	recast Invert Gallery	Completion to CP2			
NB - Sub-sea TBM Tunnel - Precast	nvert Gallery - Completion to CP20			NB - Şut	b-sea TBM Tun	nel - Precast Invert Ga	allery - Completion to	CP20		
NB - Sub-sea TBM Tunnel - Precast	nvert Gallery - Completion to CP19			NB-	Sub-sea TBM	Tunnel - Precast Inver	rt Gallery - Completic	h to CP19		-j
NB - Sub-sea TBM Tunnel - Precast	nvert Gallery - Completion to CP18					TBM Tunnel - Precas		1		1
NB - Sub-sea TBM Tunnel - Precast						-sea TBM Tunnel - Pi				
						i	1		i	-
NB - Sub-sea TBM Tunnel - Precast						- Sub-sea TBM Tunne	1		1	-
NB - Sub-sea TBM Tunnel - Precast						NB - Sub-sea TBM T	unnel - Precast Inver	t Gallery - Completion	n to CP15	
NB - Sub-sea TBM Tunnel - Precast	nvert Gallery - Completion to CP14				l l	NB - Sub-sea TI	BM Tunnel - Precast	hvert Gallery - Comp	letion to CP14	-
NB - Sub-sea TBM Tunnel - Precast	nvert Gallery - Completion to CP13					NB - Sub-se	ea TBM Tunnel - Preo	ast Invert Gallery - Co	ompletion to CP13	-
NB - Sub-sea TBM Tunnel - Precast	nvert Gallery - Completion to CP12					NB - St	ub-sea TBM Tunnel -	Precast Invert Galler	y - Completion to CP	12
NB - Sub-sea TBM Tunnel - Precast	nvert Gallery - Completion to CP11					NB	Sub-sea TBM Tun	el - Precast Invert Ga	allery - Completion to	CP11
NB - Sub-sea TBM Tunnel - Precast	nvert Gallery - Completion to CP10						NB - Sub-sea TBM	unnel - Precast Inve	rt Gallery - Completi	on to CP10
Sub-sea TBM Tunnel - SB -	Precast Invert Gallerv									
SB - Sub-sea TBM Tunnel - Precast	-		SB - Sub-sea	a TBM Tunnel - Precast li	nvert Gallery -	Completion to CP23				1
SB - Sub-sea TBM Tunnel - Precast				ub-sea TBM Tunnel - Pre			P22			-
SB - Sub-sea TBM Tunnel - Precast				SB - Sub-sea TBM Turine						-
SB - Sub-sea TBM Tunnel - Precast				SB - Sub-sea TBM T						<u> </u>
SB - Sub-sea TBM Tunnel - Precast				SB - Sub-sea TE		1	1.1			1
SB - Sub-sea TBM Tunnel - Precast	, ,					nel - Precast Invert Ga	1	1		
SB - Sub-sea TBM Tunnel - Precast				SB	- Sub-sea TBN	Tunnel - Precast Inve	ert Gallery - Completi	on to CP17		
SB - Sub-sea TBM Tunnel - Precast	nvert Gallery - Completion to CP16				SB - Sub	sea TBM Tunnel - Pre	ecast Invert Gallery -	Completion to CP16		
SB - Sub-sea TBM Tunnel - Precast	nvert Gallery - Completion to CP15				SB -	Sub-sea TBM Tunnel	Precast Invert Galle	ry - Completion to Cl	15	
SB - Sub-sea TBM Tunnel - Precast	nvert Gallery - Completion to CP14		[ ]			B - Sub-sea TBM Tu	nnel - Precast Invert	Gallery - Completion	to CP14	·····
SB - Sub-sea TBM Tunnel - Precast	nvert Gallery - Completion to CP13		1		_		i i	st Invert Gallery - Co	i	-
SB - Sub-sea TBM Tunnel - Precast							1	Precast Invert Gallery	1	12
SB - Sub-sea TBM Tunnel - Precast								innel - Precast Invert		1
	, ,						1	1	1	1
SB - Sub-sea TBM Tunnel - Precast								M Tunnel - Precast Ir		
SB - Sub-sea TBM Tunnel - Precast	, ,						·	a TBM Tunnel - Preca	1	1
SB - Sub-sea TBM Tunnel - Precast							SB - Sut	-sea TBM Tunnel - P	recast Invert Gallery	Completion
Sub-sea Tunnel Cross Passag	je & Internal Structure									
Construction										1
Sub-sea Tunnel Cross Pass	age								 	
CP47 - ML03 - Ch6390							1			;
			]							}
CP - Remaining Internal Structure &	k Finishing									-
	k Finishing					1	1	1		1
CP - Remaining Internal Structure 8			shing							1
CP - Remaining Internal Structure & CP46 - ML03 - Ch6292			shing							
CP - Remaining Internal Structure & CP46 - ML03 - Ch6292 CP - Remaining Internal Structure &	k Finishing						- - -	, , , ,	1 1 1 1 1 1 1 1	           
CP - Remaining Internal Structure & CP46 - ML03 - Ch6292 CP - Remaining Internal Structure & CP45 - ML03 - Ch6193 CP - Remaining Internal Structure &	k Finishing		shing Finishing						· · · · · · · · · · · · · · · · · · ·	
CP - Remaining Internal Structure & CP46 - ML03 - Ch6292 CP - Remaining Internal Structure & CP45 - ML03 - Ch6193 CP - Remaining Internal Structure & CP44 - ML03 - Ch6095	k Finishing		Finishing							
CP - Remaining Internal Structure & CP46 - ML03 - Ch6292 CP - Remaining Internal Structure & CP45 - ML03 - Ch6193 CP - Remaining Internal Structure & CP44 - ML03 - Ch6095 CP - Pipe Jacking Method - Break-	k Finishing k Finishing out & Demobilization		Finishing Demobilization							-
CP - Remaining Internal Structure & CP46 - ML03 - Ch6292 CP - Remaining Internal Structure & CP45 - ML03 - Ch6193 CP - Remaining Internal Structure & CP44 - ML03 - Ch6095	k Finishing k Finishing out & Demobilization		Finishing Demobilization Ial Structure & Finishing							
CP - Remaining Internal Structure & CP46 - ML03 - Ch6292 CP - Remaining Internal Structure & CP45 - ML03 - Ch6193 CP - Remaining Internal Structure & CP44 - ML03 - Ch6095 CP - Pipe Jacking Method - Break-	k Finishing k Finishing out & Demobilization	TMCLK - Nort	Finishing Demobilization Ial Structure & Finishing	n Sub-Sea Tunno	el Section				JGEN/PRG/98507 WYu	eded Appro
CP - Remaining Internal Structure & CP46 - ML03 - Ch6292 CP - Remaining Internal Structure & CP45 - ML03 - Ch6193 CP - Remaining Internal Structure & CP44 - ML03 - Ch6095 CP - Pipe Jacking Method - Break- CP - Remaining Internal Structure & ge 7 of 12	k Finishing k Finishing but & Demobilization k Finishing		Finishing Demobilization al Structure & Finishing hern Connection	n Sub-Sea Tunno		<u>چ جامع</u>	<b>H</b>	12-Feb-14 TMCLKDB 08-Apr-14 TMCLKDB 28-Aug-14 TMCLKDB	JGEN/PRG/98507 WYu JGEN/PRG/98507 Rev.B SPa JGEN/PRG/98507 Rev.C CLa	
CP - Remaining Internal Structure & CP46 - ML03 - Ch6292 CP - Remaining Internal Structure & CP45 - ML03 - Ch6193 CP - Remaining Internal Structure & CP44 - ML03 - Ch6095 CP - Pipe Jacking Method - Break-C CP - Remaining Internal Structure &	k Finishing k Finishing but & Demobilization k Finishing Planned Bar		Finishing Demobilization al Structure & Finishing hern Connection			ででである		12-Feb-14 TMCLKDB 08-Apr-14 TMCLKDB 28-Aug-14 TMCLKDB	JGEN/PRG/98507 WYu JGEN/PRG/98507 Rev.B SPa	SPo WYu
CP - Remaining Internal Structure & CP46 - ML03 - Ch6292 CP - Remaining Internal Structure & CP45 - ML03 - Ch6193 CP - Remaining Internal Structure & CP44 - ML03 - Ch6095 CP - Pipe Jacking Method - Break- CP - Remaining Internal Structure & ge 7 of 12 Dject ID: TMCLK DWPF 16W25	k Finishing k Finishing but & Demobilization k Finishing Planned Bar Planned Bar - Critical	Deta	Finishing Demobilization al Structure & Finishing hern Connection iled Works Prog	n Sub-Sea Tunno gramme (Rev. F)		下	es BOUYGUES	12-Feb-14 TMCLKDB 08-Apr-14 TMCLKDB 28-Aug-14 TMCLKDB	JGEN/PRG/98507 WYu JGEN/PRG/98507 Rev.B SPa JGEN/PRG/98507 Rev.C CLa	SPo WYu
CP - Remaining Internal Structure & CP46 - ML03 - Ch6292 CP - Remaining Internal Structure & CP45 - ML03 - Ch6193 CP - Remaining Internal Structure & CP44 - ML03 - Ch6095 CP - Pipe Jacking Method - Break- CP - Remaining Internal Structure & ge 7 of 12	& Finishing but & Demobilization & Finishing Planned Bar Planned Bar - Critical Planned Milestone	Deta	Finishing Demobilization al Structure & Finishing hern Connection	n Sub-Sea Tunno gramme (Rev. F)		Dragag	BOUYGUES ng	12-Feb-14 TMCLKDB 08-Apr-14 TMCLKDB 28-Aug-14 TMCLKDB	JGEN/PRG/98507 WYu JGEN/PRG/98507 Rev.B SPa JGEN/PRG/98507 Rev.C CLa	SPo WYu

y Name	2016 2017
	Dec Jan Feb Mar Apr May Jun Jul
CP43 - ML03 - Ch5996 CP - Pipe Jacking Method - Break-out & Demobilization	t & Demobilization
CP - Remaining Internal Structure & Finishing	ternal Structure & Finishing
CP42 - ML03 - Ch5898	
CP - Remaining Internal Structure & Finishing	maining Internal Structure & Finishing
CP40 - ML03 - Ch5703	
CP - Pipe Jacking Method - Setup & Assembly	Setup & Assembly
CP - Piping Jacking Method - Break-in & Excavation	ng;Method - Break-in & Excavation
CP - Pipe Jacking Method - Break-out & Demobilization	Jacking Method - Break-out & Demobilization
CP - Remaining Internal Structure & Finishing CP39 - ML03 - Ch5607	CP - Remaining Internal Structure & Pinishing
CP - Piping Jacking Method - Break-in & Excavation	cking Method - Break-in & Excavation
CP - Pipe Jacking Method - Break-out & Demobilization	ipe Jacking Method - Break-out & Demobilization
CP - Remaining Internal Structure & Finishing	CP - Remaining Internal Structure & Finishing
CP38 - ML03 - Ch5510	
CP - Pipe Jacking Method - Setup & Assembly	Method - Setup & Assembly
CP - Piping Jacking Method - Break-in & Excavation	P - Piping Jacking Method - Break-in & Excavation
CP - Pipe Jacking Method - Break-out & Demobilization CP - Remaining Internal Structure & Finishing	CP - Pipe Jacking Method - Break-out & Demobilization
CP37 - ML03 - Ch5413	CP - Remaining Internal Structure & Finishing
CP-7 Pipe Jacking Method - Break-out & Demobilization	CP - Pipe Jacking Method - Break-out & Demobilization
CP - Remaining Internal Structure & Finishing	CP - Remaining Internal Structure & Finishing
CP36 - ML03 - Ch5315	
CP - Pipe Jacking Method - Setup & Assembly	Jacking Method - Setup & Assembly
CP - Piping Jacking Method - Break-in & Excavation	CP - Piping Jacking Method - Break-in & Excavation
CP - Pipe Jacking Method - Break-out & Demobilization	CP - Pipe Jacking Method - Break-out & Demobilization
CP - Remaining Internal Structure & Finishing	CP - Remaining Internal Structure & Finishing
CP35 - ML03 - Ch5217 CP - Pipe Jacking Method - Setup & Assembly	- Pipe Jacking Method - Setup & Assembly
CP - Piping Jacking Method - Break-in & Excavation	CP - Piping Jacking Method - Break-in & Excavation
CP - Pipe Jacking Method - Break-out & Demobilization	CP - Pipe Jacking Method - Break-out C Demobilization
CP - Remaining Internal Structure & Finishing	CP Remaining Internal Structure & Finishing
CP34 - ML03 - Ch5118	
CP - Pipe Jacking Method - Setup & Assembly	P - Pipe Jacking Method - Setup & Assembly
CP - Piping Jacking Method - Break-in & Excavation	CP - Piping Jacking Method - Break in & Excavation
CP - Pipe Jacking Method - Break-out & Demobilization	CP - Pipe Jacking Method - Break-out & Demobilization
CP - Remaining Internal Structure & Finishing CP33 - ML03 - Ch5020	CP - Remaining Internal Structure & Finishing
CP - Pipe Jacking Method - Setup & Assembly	CP - Pipe Jacking Method - Setup & Assembly
CP - Piping Jacking Method - Break-in & Excavation	CP - Piping Jacking Method - Break-in & Excavation
CP - Pipe Jacking Method - Break-out & Demobilization	CP - Pipe Jacking Method - Break-out & Demobilization
CP - Remaining Internal Structure & Finishing	CP - Remaining Internal Structure & Finishing
CP32 - ML03 - Ch4921	
CP - Pipe Jacking Method - Setup & Assembly	CP - Pipe Jacking Method - Setup & Assembly
CP - Piping Jacking Method - Break-in & Excavation	CP - Piping Jacking Method - Break-in & Excavation
CP - Pipe Jacking Method - Break-out & Demobilization CP - Remaining Internal Structure & Finishing	CP - Pipe Jacking Method - Break-out & Demobilization CP - Remaining Internal Structure & Finishing
CP31 - ML03 - Ch4823	
CP - Pipe Jacking Method - Setup & Assembly	CP - Pipe Jacking Method - Setup & Assembly
CP - Piping Jacking Method - Break-in & Excavation	CP - Piping Jacking Method - Break-in & Excavation
CP - Pipe Jacking Method - Break-out & Demobilization	CP - Pipe Jacking Method - Break-out & Demobilization
CP - Remaining Internal Structure & Finishing	CP - Remaining Internal Structure & Finishing
CP30 - ML03 - Ch4724	
CP - Pipe Jacking Method - Setup & Assembly	CP - Pipe Jacking Method - Setup & Assembly
CP - Piping Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-out & Demobilization	CP - Piping Jacking Method - Break-in & Excavation
CP - Remaining Internal Structure & Finishing	CP - Pipe Jacking Method - Break-out & Demobilization
CP29 - ML03 - Ch4626	
CP - Pipe Jacking Method - Setup & Assembly	CP - Pipe Jacking Method - Setup & Assembly
CP - Piping Jacking Method - Break-in & Excavation	CP - Piping Jacking Method - Break-in & Excavation
CP - Pipe Jacking Method - Break-out & Demobilization	CP - Pipe Jacking Method - Break-out & Demobilization
CP - Remaining Internal Structure & Finishing	CP - Remaining Internal Structure & Finishing
CP28 - ML03 - Ch4527	
CP - Pipe Jacking Method - Setup & Assembly	CP - Pipe Jacking Method - Setup & Assembly
CP - Piping Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-out & Demobilization	CP - Piping Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-out & Demobilization
CP - Remaining Internal Structure & Finishing	CP - Pripe Jacking Methop - Break-out & Demopilization
CP27 - ML03 - Ch4429	
CP - Pipe Jacking Method - Setup & Assembly	CP - Pipe Jacking Method - Setup & Assembly
CP - Piping Jacking Method - Break-in & Excavation	CP - Piping Jacking Method - Break-in & Excavation
CP - Pipe Jacking Method - Break-out & Demobilization	CP - Pipe Jacking Method - Break-out & Demobilization
CP - Remaining Internal Structure & Finishing	CP - Remaining Internal Structure & Finishing



Activity Name	
	2016 2017 Dec Jan Feb Mar Apr May Jun Jul
CP - Pipe Jacking Method - Setup & Assembly	CP - Pipe Jacking Method - Setup & Assembly
CP - Piping Jacking Method - Break-in & Excavation	CP - Piping Jacking Method - Break-in & Excavation
CP - Pipe Jacking Method - Break-out & Demobilization	CP - Pipe Jacking Method - Break-out & Demobilizatic
CP - Remaining Internal Structure & Finishing CP23 - ML03 - Ch4035	CP - Remaining Internal Structure &
CP-25 - ME05 - CH4055 CP - Pipe Jacking Method - Setup & Assembly	CP - Pipe Jacking Method - Setup & Assembly
CP - Piping Jacking Method - Break-in & Excavation	CP - Piping Jacking Method - Break-in & Excavation
CP - Pipe Jacking Method - Break-out & Demobilization	CP - Pipe Jacking Method - Break-out & Demobiliza
CP - Remaining Internal Structure & Finishing	CP - Remaining Internal Structure
CP22 - ML03 - Ch3936	
CP - Pipe Jacking Method - Setup & Assembly	CP - Pipe Jacking Method - Setup & Assembly
CP - Piping Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-out & Demobilization	CP - Piping Jacking Method -Break-in & Excav
CP21 - ML03 - Ch3838	CP - Pipe Jacking Method - Break-out
CP - Pipe Jacking Method - Setup & Assembly	OP - Pipe Jacking Method - Setup & Assembly
CP - Piping Jacking Method - Break-in & Excavation	CP - Piping Jacking Method - Break-in & Exc
CP - Pipe Jacking Method - Break-out & Demobilization	CP - Pipe Jacking Method - Break-o
CP20 - ML03 - Ch3739	
CP - Pipe Jacking Method - Setup & Assembly	CP - Pipe Jacking Method - Setup & Assembly
CP19 - ML03 - Ch3641 CP - Pipe Jacking Method - Setup & Assembly	CP - Pipe Jacking Method - Setup & Assembly
CP18 - ML03 - Ch3542	
CP - Pipe Jacking Method - Setup & Assembly	CP - Pipe Jacking Method - Setup & Assembly
CP17 - ML03 - Ch3444	
CP - Pipe Jacking Method - Setup & Assembly	CP - Pipe Jacking Method - Setup & Assembly
CP16 - ML03 - Ch3345 CP - Pipe Jacking Method - Setup & Assembly	
CP - Pipe Jacking Method - Setup & Assembly CP15 - ML03 - Ch3247	CP - Pipe Jacking Method - Setup & Assembly
CP - Pipe Jacking Method - Setup & Assembly	CP - Pipe Jacking Method - Setup & Assembly
CP14 - ML03 - Ch3148	
CP - Pipe Jacking Method - Setup & Assembly	CP - Pipe Jacking Method - Setup & Assembly
CP13 - ML03 - Ch3050	
CP - Pipe Jacking Method - Setup & Assembly CP12 - ML03 - Ch2951	CP - Pipe Jacking Method - Setup & Assembly
CP12 - ML03 - CN2951 CP - Pipe Jacking Method - Setup & Assembly	CP, - Pipe Jacking Method - Setup & Assembly
CP11 - ML03 - Ch2853	
CP - Pipe Jacking Method - Setup & Assembly	CP - Pipe Jacking Method - Setup & Assembly
Sub-sea TBM Tunnel - NB - Remaining Internal Structure	
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP48	P48
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP47	to/CP47
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP46 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP45	Completion to CP46
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP44	Cable Trough - Completion to CP44
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP43	el & Cable Trough - Completion to CP43
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP42	Innel - Corbel & Cable Trough - Completion to CP42
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP41	I Tunnel - Corbel & Cable Trough - Completion to CP41
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP40	Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP40
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP39	B - Sub-sea TBM Tunnel - Corbel & Cable Trqugh - Completion to CP39
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP38	NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP38
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP37           NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP36	NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP37
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP35	NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP35
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP34	NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP34
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP33	NB - Sub-sea TBM Tunhel - Corbel & Cable Trough - Completion to CP33
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP32	NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP32
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP31	NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP31
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP30	NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP30
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP29 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP28	NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP29
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP28 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP27	NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP28
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP26	NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP27
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP25	NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Comp
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP24	NB - Sub-sea TBM Tunnel - Corbel & Cable Troug
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23	NB - Sub-sea TBM Tunnel - Corbel & Cable Tro
NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP48	o ¢P48
NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP47	onito CP47
NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP46 NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP41	- Completion to CP46
NB - Sub-sea TBM Tunnel - OHVD Slab Installation - Completion to CP38	Big Tunnel - OHVD Stap Installation - Completion to CP41 NB - Sub-sea TBM Tunnel - OHVD Stab installation - Completion to CP38
NB         Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP37	NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP37
NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP36	NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP36
NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP35	NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP35
NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP34	NB- Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP34
NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP33	NB - Sub-sea TBM Tunnel - OHVD Slabinstallation - Completion to CP33
NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP32 NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP31	NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP32
NB - Sub-sea TBM Tunnel - OHVD Slab Installation - Completion to CP31 NB - Sub-sea TBM Tunnel - OHVD Slab Installation - Completion to CP30	NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP31
NB - Sub-sea TBM Tunnel - OHVD Slab Installation - Completion to CP29	NB - Sub-sea TBM fullifier - OHVD stab installation - Completion to CP30
NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP28	NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP28
NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP27	NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP27
NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP26	NB - Sub-sea TBM Turinel - OHVD Slab installation - Comple
NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP25	NB - Sub-sea TBM Tunnel - OHVD Slab installation - Con
NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP24	NB - Sub-sea TBM Tunnel - OHVD Slab installa
Page 9 of 12 Planned Bar TMCLK - No	rthern Connection Sub-Sea Tunnel Section
Planned Bar - Critical	08-Apr-14         TMCLKDBJGENFRG98507 Rev.B         SPa         WYu           各完全         28-Aug-14         TMCLKDBJGENFRG98507 Rev.C         CLa         WYu
Data Date: 26-Feb-17 Progress bar	hree Months Rolling Programme
Progress Milestone	レrogoges - bouygues Joint venture 其後 - 小K伯母室
	Progress as of 26-Feb-17

ivity Name	
	2016 2017
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NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP23	NB - Şub-sea TBM Tunnej - OHVD Slab
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP39	INB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP39
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP38	NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP38
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP37	NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP37
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP36	NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP36
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP35	NB - Subi-sea TBM Tunnel - Fire Proofing - Completion to CP35
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP34	NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP34
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP33	NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP33
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP32	NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP32
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP31	B - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP31
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP30	■ NB - Sub-sea TBM Tunnel - Firę Proofing - Completion to CP30
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP29	NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP29
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP28	NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP28
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP27	
	NB - Sub-seq TBM Tunnel - Fire Proofing - Completion to CP27
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP26	NB - Sub-sea TBM Tunnel - Fire Proofing - Completion 1
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP25	NB - Sub-sea TBM Tunnel - Fire Proofing - Completi
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP24	NB - Sub-sea TBM Tunnel - Fire Proofing
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP23	NB - Sub-sea TBM Tunnel - Fire Proof
NB - Sub-sea TBM Tunnel - Road Level Fire Proofing	
Sub-sea TBM Tunnel - SB - Remaining Internal Structure	
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP48	∑P48
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP47	to'CP47
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP46	Completion to CP46
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP45	th - Completion to CP45
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP44	Cable Trough - Completion to CP44
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP43	el & Cable Trough - Completion to CP43
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP42	Inriel - Corbel & Cable Trough - Completion to CP42
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP41	
	/ Tunnel - Corbel & Cable Trough - Completion to CP41
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP38	SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP38
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP37	SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP37
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP36	SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP36
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP35	SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP35
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP34	SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP34
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP33	SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP33
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP32	
	SB - Sup-isea TBM Tunnel - Corbel & Cable Trough - Completion to CP32
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP31	SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP31
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP30	SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP30
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP29	SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP29
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP28	SB - Sub-sea TBM Tynnel - Corbel & Cable Trough - Completion to CP28
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP27	SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP27
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP26	SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Compl
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP25	SB - Sub-sea TBM Tuhnel - Corbel & Cable Trough - Cor
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP24	SB - Sub-sea TBM Tunnel - Corbel & Cable Tro
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23	SB - Sub-sea TBM Tunnel - Corbel & Cable
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP38	SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP38
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP37	SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to OP37
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP36	SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP36
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP35	SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP35
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SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP34	SB - Sub-sea TBM Tuhnel - OHVD Slab installation - Completion to CP34
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP33	SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP33
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP32	SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP32
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP31	SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP31
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP30	SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP30
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP29	SB - Sub-sea TBM Tunnel - QHVD Slab installation - Completion to CP29
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP28	
	SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP28
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP27	SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP26	SB - Sub-sea TBM Tuhnel - OHVD Slab installation - Cor
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP25	SB - Sub-sea TBM Tunnel - OHVD Slab installation -
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP24	SB - Sub-sea TBM Tunnel - OHVD Slab inst
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP23	SB - Sub-sea TBM Tunnel - OHVD Slab
SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP39	SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP39
SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP38	
	SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP38
SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP37	SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP37
SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP36	SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP36
SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP35	SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP35
SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP34	SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP34
SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP33	SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP33
SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP32	SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP32
SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP31	SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP31
SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP30	SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP30
SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP29	SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP29



ivity Name									
Mity Name		2016				2017			
		Dec	Jan	Feb	Mar	Apr	May	Jun	Jul
Review & Comment by JV									
Designer prepare DDA	-							1	1
								1 1 1	1
Formal Submission of DDA to ICE/ IPs								, , ,	
Advanced Submission to SO									
IPs/SO'sAdvance Comments/ ICE Comments								1	1
Comments Received	— <u> </u>							1	
								1	1
Designer to Reply RtC + Update Submission								1	1
Submit Updated DDA to SO/ ICE/ IPs	=							1	1
ICE Approval & Issue Check Cert								; !	;
IPs Review	— i							1	
								1 1 1	1
SO's Review								1	
Method Statement Submission								1	
Method Statement of Construction Methodology of C&C Tunnels									
Preparation Method Statement for C&C Tunnels								¦	
Submit Method Statement to SO								1 1	1
								1	
SO Reviews & Comments								1	1
Re-submission								1	
SO's Review								1	
Construction									L
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C&C Tunnel - 4th 85m - Tunnel Structure		C&C Tunr	nel - 4th 85m - Tunne	i				1 1 1	
C&C Tunnel - 4th 85m - B ackfilling			C&C Tunnel - 4th 8	35m - Backfilling				1	
C&C Tunnel - 5th 85m - Tunnel Structure				ç&C Tunnel - 5th 8	5m - Tunnel Structure			1	
C&C Tunnel - 5th 85m - B ackfilling					&C Tunnel - 5th 85m -				
C&C Tunnel - 6th 85m - Tunnel Structure	<u> </u>				-!		Structure		
	_  =				G&C lunne	el - 6th 85m - Tunnel		1 1 1	
C&C Tunnel - 6th 85m - B ackfilling						C&C Tunnel	- 6th 85m - Backfillin	ġ '	
C&C Tunnel - 7th 67m - E xcavation by vertical mean			C&C Tunn	el - 7th 67m - Exca	vation by vertical mea	h			
C&C Tunnel - 7th 67m - Tunnel Structure						C&0	; Tunnel - 7th 67m - T	unnel Structure	
C&C Tunnel - 7th 67m - B ackfilling	_							C&C Tunnel - 7th	F7m Rodefillin
-							da		
C&C Tunnel - 8th 85m - E xcavation by vertical mean	_				C&C Tunnel - 8th 85n	n - Excavation by ver	ntical mean	1	
C&C Tunnel - 8th 85m - Tunnel Structure								C&C	Tunnel - 8th 85
Intermediate Slab							•	,	Inte
South Retrieval Shaft								1	
Design Submission								1	
	<b>-</b>								
(F4) Gantry Crane Support/Foundations in Southern Landfall								1	
Designer to Reply RtC + Update Submission								1	
Submit Updated IFA to SO/ ICE/ IPs								1	1
ICE Approval & Issue Check Cert	_							1	
	_							1	
IPs Review									
IP's No Objection Received	-								
SO's Review								1	
SO Approval with Condition Received								1	
								1	
Method Statement Submission									
Method Statement of Construction Methodology of Retrieval Shaft	<b></b>							, , ,	
Preparation Method Statement for Retrieval Shaft								1	1
Submit Method Statement to SO								1	
SO Reviews & Comments								1	
Re-submission								1	
								1 1 1	1
SO's Review								   	
Construction					1		1		
South Retrieval Shaft - Diaphragm Wall								1	
Retrieval Shaft - Temp. Slab/Prepare for TBM Breakthrough	F	Retrieval Shaft - Ten	np. Slab/Prepare for	TBM Breakthroug	n.				
South Approach Ramp		isanova onait- ien		, s.n. sroannoug				, , ,	
								1	
Construction								, {	
Appoach Ramp (CH1580-1850) - Pipe Pile/Sheet Piles Wall								1	
Appoach Ramp (CH1580-1850) - Tension Piles								1	1
Appoach Ramp (CH1580-1800) - Excavation,						Appoach	, Ramp (CH1580-1800	) - Excavation	
Remaining Approach Tunnel Structure	_							,,,,	
								1	
South Ventilation Building	<b>_</b>								
Design Submission								1	
(I1) DDA for South Vent.Bldg. GBP & Arch.Submission								1 1 1	
IPs Review								1 1 1	1
IP's No Objection Received								1	
								1	
SO's Review								; ;	, , ,
SO Approval with Condition Received								1	1
(I2) DDA for South Vent.Bldg. Foundation Design								1	
Review & Comment by JV								1	
							1	1	1
Designer prepare DDA								1	
Formal Submission of DDA to ICE/ IPs								, , ,	
Advanced Submission to SO								,	   
IPs/SO'sAdvance Comments/ ICE Comments	-							1 1	
								1	1 1
Comments Received								1	
Designer to Reply RtC + Update Submission				1			1	1	

S					
		Date	Revision	Checked	Approved
LK - Northern Connection Sub-Sea Tunnel Section				VYu	SPo
					WYu WYu
Detailed Works Programme (Rev. F)		30-Od-15 TMCLK/D	BJGEN/PRG/98507 Rev. F W	VYu	
	Dragages BOUYGUES				
Three Months Rolling Programme					
	areagages according round areas in pringing at				
Progress as of 26-Feb-17					
	K - Northern Connection Sub-Sea Tunnel Section Detailed Works Programme (Rev. F)	K - Northern Connection Sub-Sea Tunnel Section Detailed Works Programme (Rev. F) Three Months Rolling Programme	K - Northern Connection Sub-Sea Tunnel Section Detailed Works Programme (Rev. F) Three Months Rolling Programme	K - Northern Connection Sub-Sea Tunnel Section         Detailed Works Programme (Rev. F)         Three Months Rolling Programme	K - Northern Connection Sub-Sea Tunnel Section         Detailed Works Programme (Rev. F)         Three Months Rolling Programme

		Dec	Jan	Feb	Mar	Apr	May	Jun	
Designer to Reply RtC + Update Submission	-								
Submit Updated DDA to SO/ICE/IPs									
ICE Approval & Issue Check Cert	-	I							
IPs Review SO's Review	-	I							
(J1) DDA Temp.works for Construction of Sth.Vent.Bldg.					 	 			
Designer to Reply RtC + Update Submission	4	I							1
Submit Updated DDA to SO/ ICE/ IPs									
ICE Approval & Issue Check Cert									
Submit ICE Check Cert to SO	1	I							
IPs Review								4	
IP's No Objection Received									
SO's Review		I							
SO Approval with Condition Received	L <u>i</u>								
Construction									
Mobilization & Setting Up Piling Rigs							     		1. 1. 1.
S -Sheet Piling	1	I			li -				
Substructure			Substructure						
Superstructure					Sur	perstructure			
Finishing Works						- I		·	
buth Surface Roadworks, Utility & Drainage works									1
Design Submission		I							
(E1) AIP - Southern Landfall Seawall Modification									
Designer Prepare AIP - Southern Landfall Seawall Modification		Desig	ner Prepare AIP - Sc	i	eawall Modification				
Review & Comment by JV			Review & Com						
Designer prepare AIP	-	I	Designer					1	
Formal Submission of AIP to ICE/IPs	-	I		bmission of AIP to	1				
Advanced Submission of AIP to SO	-	I	Advanceu	Submission of A	i i				
Review & Comment by SO/ ICE/ IPs Advance Commants from SO/ Comments from ICE/ IPs Received	-	I			Comment by SO/ ICE	1	- Decolumn		
Advance Commants from SO/ Comments from ICE/ IP's Received Designer to Prepare RtC & Updated AIP					Commants from SO/ (	pare RtC & Updated A			÷
Submisson of AIP to SO/ ICE together with Reply To Comment (RTC)	-	I				1	AIP r with Reply To Comm		
Reply to IPs Comments in RTC	-	I			<ul> <li>Submisson of All</li> <li>Reply to IPs Corr</li> </ul>	-	with Reply to Comm	lent (RTC)	
ICE Approval & Issue of Design Check Cert.	-	I					t Design Check Cert.		
Check Cert to SO	-	I			1	heck Cert to SO	Design Oneon Cont.		
No Objection or Further Minor Comments from IPs Received		J					Minor Comments fro	om IPs Received	
SO Review (35 Days)	-	I			· · ·	SO Review (	i		
SOApproval with Condition Received	-	I				1	with Condition Receiv	ved	
(E1) DDA - Southern Landfall Seawall Modification		I				• •••••			
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Review & Comment by JV								eview & Comment by	
Designer prepare DDA	1	I						Designer pre	
IPs Review	1	I			l l				1
IP's No Objection Received	1	I							
SO's Review		I							
SO Approval with Condition Received									
(E3) DDA for Sewerage, Drainage, Waterworks & Utility works for South Landf		I							
IPs Review		I							
IP's No Objection Received		I							
SO's Review									
SOApproval with Condition Received									
lethod Statement Submission		-							
Method Statement of Ground Treatment for TBMs Passing under Southern La		I							
Preparation Method Statement for Ground Improvement in South Landfall		I			l l				
Submit Method Statement to SO	<u>H</u>								
SO Reviews & Comments									1
Re-submission		I			H				
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SO's Approval	<u> </u>				ti in the second se				
Construction	<b>I</b>								
Temporary Platform for Ground Treatment for TBM passing under Southern Seawall		I							
Grouting Treatment for TBM passing under Southern Seawall	Groutin	ng Treatment fo	r TBM passing under	Southern Seawa	P.				
sting & Commissioning/Inspection & Handover		I							
nal Inspection & Handover		I							
Design Submission	<b>I</b>								ļ
(A12) Maintenance Matrix		I							
Prepare Re-submission									
2nd Submission	-				tl.				
SO's Condition Approval		I			1				
(A13) Operation & Maintenance Manual									
Preparation of Operation and Maintenance Manual									
1st Submission	<b>—</b>				t				
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SO's Comments for 1st Submission		I							
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Prepare Re-submission (A14) As-built & As-fabricated Drawings Preparation of As-built and As-fabricated Drawings 1st Submission SO's Comments for 1st Submission (A15) Health & Safety File incl.As-built Dwgs & Records,Maintenance Schedul Preparation of Health and Safety File including as-built drawings and records, maintenance schedules, or									

Project ID: TMCLK DWPF 16W25

Data Date: 26-Feb-17

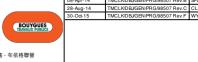


Detailed Works Programme (Rev. F)

Three Months Rolling Programme

Progress as of 26-Feb-17





Appendix C

Environmental Mitigation and Enhancement Measure Implementation Schedules

EIA Reference	EM&A Manual	nual	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Imp	olementa Stages	tion	Status *
	Reference					D	С	0	
Air Quality 4.8.1	3.8	An effective watering programme of twice daily watering with complete coverage, is estimated to reduce by 50%. This is recommended for all areas in order to reduce dust levels to a minimum;	construction period	Contractor	TMEIA Avoid smoke impacts and disturbance		Y		~
4.8.1	3.8	Watering of the construction sites in Lantau for 8 times/day and in Tuen Mun for 12 times/day to reduce dust emissions by 87.5% and 91.7% respectively and shall be undertaken.		Contractor	TMEIA Avoid dust generation		Y		V
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.	construction period	Contractor	TMEIA Avoid dust generation		Y		~
4.8.1	3.8	The Contractor shall not burn debris or other materials on the works areas.	All areas / throughout construction period	Contractor	TMEIA Avoid dust generation		Y		~
4.8.1	3.8	In hot, dry or windy weather, the watering programme shall maintain all exposed road surfaces and dust sources wet.	All unpaved haul roads / throughout construction period in hot, dry or windy weather	Contractor	TMEIA Avoid smoke impacts and disturbance		Y		~
4.8.1	3.8	Where breaking of oversize rock/concrete is required, watering shall be implemented to control dust. Water spray shall be used during the handling of fill material at the site and at active cuts, excavation and fill sites where dust is likely to be created.	construction period	Contractor	TMEIA Avoid dust generation		Y		~
4.8.1	3.8	Open dropping heights for excavated materials shall be controlled to a maximum height of 2m to minimise the fugitive dust arising from unloading.		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.		Contractor	TMEIA Avoid dust generation		Y		~

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

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Imj	plementa Stages	tion	Status *
	Kererence					D	С	0	
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.	, 0	Contractor	TMEIA Avoid dust generation		Y		<>
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.		Contractor	TMEIA Avoid dust		Y		1
4.8.1	3.8	Areas of exposed soil shall be minimised to areas in which works have been completed shall be restored as soon as is practicable.	All exposed surfaces / throughout construction period	Contractor	TMEIA Avoid dust generation		Y		✓
4.8.1	3.8	All stockpiles of aggregate or spoil shall be enclosed or covered and water applied in dry or windy condition.	All areas / throughout construction period	Contractor	TMEIA Avoid dust generation		Y		<>
4.11	Section 3	EM&A in the form of 1 hour and 24 hour dust monitoring and site audit.	All representative existing ASRs / throughout construction period	Contractor	EM&A Manual		Y		√
WATER QUAL	ITY								l
Marine Works (Seq	uence A)								
6.1	Annex A	Construction of seawalls to be advanced by at least 200m before the main reclamation dredging and filling can commence. The protection by advanced seawall is a dynamic process depending on the progress of the construction activities and the stage when such protection could be realised is illustrated in Figure 6.2a and detailed in Appendix D6a. The part of the works where such measures can be undertaken for the majority of the time includes the following locations:	backfilling works	Contractor	TM-EIAO		Y		~
Figure 6.2a Appendix D6a		- TM-CLKL northern reclamation;							
6.1	-	a maximum of 50% public fill to be used for all seawall filling below +2.5mPD for TM-CLKL southern and northern landfalls.	TM-CLKL seawall filling	Contractor	TM-EIAO		Y		√

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

EIA Reference	Manual		Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Imp	tion	Status *	
	Reference					D	C	0	
6.1	-	a maximum of 30% public fill to be used for reclamation filling below +2.5mPD for TM-CLKL southern landfall	TM-CLKL southern landfall reclamation filling	Contractor	TM-EIAO		Y		N/A
6.1	-	a maximum of 100% public fill to be used for reclamation filling below +2.5mPD for TM-CLKL northern landfall	TM-CLKL northern landfall reclamation filling	Contractor	TM-EIAO		Y		✓
6.1	-	Use of cage type silt curtains round allgrab dredgers during the HKBCF, HKLR and TM-CLKL southern reclamation works.	All areas dredging works	Contractor	TM-EIAO		Y		✓
	Figure 1.1 of Annex C	A layer of floating type silt curtain will be applied when dredging and reclamation works are being undertaken at Portion N-a as shown in Figure 1.1 of Annex C of the EM&A Manual.		Contractor	TM-EIAO		Y		~
6.1	-	Trailer suction hopper dredgers shall not allow mud to overflow.	All areas/ throughout construction period	Contractor	Marine Fill Committee Guidelines. DASO permit conditions.		Y		1
6.1	-	The use of Lean Material Overboard (LMOB) systems shall be prohibited.	All areas/ throughout construction period	Contractor	Marine Fill Committee Guidelines. DASO permit conditions.		Y		<b>~</b>

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

EIA Reference	EM&A Manual	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Imp	Implementation Stages				
	Reference					D	C	0			
6.1	Annex A	For other parts of the reclamation works construction of seawalls to be advanced by at least 200m before the main reclamation dredging and filling can commence. It should be noted that the protection by advanced seawall is a dynamic process depending on the progress of the construction activities and the stage when such protection could be realised is illustrated in Figure 6.2b and detailed in Appendices D6b. The part of the works where such measures can be undertaken for the majority of the time includes the following locations:	Portion D of HKBCF and HKLR	Contractor	TM-EIAO		Y		~		
Figure 6.2b Appendix D6b		<ul> <li>TM-CLKL northern reclamation;</li> <li>Reclamation filling for Portion D of HKBCF; Reclamation filling for FSD berth of HKBCF; and</li> </ul>									
		- Reclamation dredging and filling for Portion 1 of HKLR;									
6.1	-	The filling material for the other parts of the works are the same as Sequence A;	All other areas/backfilling works	Contractor	TM-EIAO		Y		N/A		
6.1	5.7	Cage type silt curtain (with steel enclosure) shall be used for grab dredgers working in the site of HKBCF and TM- CLKL southern reclamation. Cage type silt curtains will be applied round all grab dredgers at other works area.	grab dredging	Contractor	TM-EIAO		Y		~		
6.1	Annex A	A layer of floating type silt curtain will be applied around all works as defined in Appendix D6b.	All areas/ through out marine works	Contractor	TM-EIAO		Y		~		
6.1	-	TM-CLKL northern landfall: - Reclamation filling shall not proceed until at least 200m section of leading seawall at both the east and west sides of the reclamation are formed above +2.5 mPD, except for 100m gaps for marine access;	L	Contractor	TM-EIAO		Y		~		

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

EIA Reference	EM&A Manual		Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Imj	olementa Stages	tion	Status *
	Reference					D	С	0	
General Marine W	orks								
6.1	-	Use of TBM for the construction of the submarine tunnel.	Tunnel works / Construction phase	Contractor	TM-EIAO		Y		N/A
6.1	-	Export dredged spoils from NWWCZ.	All areas as much as possible / dredging activities	Contractor	DASO Permit conditions		Y		<b>✓</b>
6.1	-	Where public fill is proposed for filling below +2.5mPD, the fine content in the public fill will be controlled to 25%	All areas/ backfilling works	Contractor	TM-EIAO		Y		N/A
6.1	-	Where sand fill is proposed for filling below +2.5mPD, the fine content in the sand fill will be controlled to 5%.	All areas/ backfilling works	Contractor	TM-EIAO		Y		N/A
6.1	-	Mechanical grabs shall be designed and maintained to avoid spillage and should seal tightly while being lifted.	All areas/ throughout construction period	Contractor	Marine Fill Committee Guidelines. DASO permit conditions.		Y		~
6.1	-	Barges and hopper dredgers shall have tight fitting seals to their bottom openings to prevent leakage of material.	All areas/ throughout construction period	Contractor	Marine Fill Committee Guidelines. DASO permit conditions.		Y		~
6.1	-	Any pipe leakages shall be repaired quickly. Plant should not be operated with leaking pipes.	All areas/ throughout construction period	Contractor	Marine Fill Committee Guidelines. DASO permit conditions.		Y		
6.1	-	Loading of barges and hoppers shall be controlled to prevent splashing of dredged material to the surrounding water. Barges or hoppers shall not be filled to a level which will cause overflow of materials or pollution of water during loading or transportation.	construction period	Contractor	Marine Fill Committee Guidelines. DASO permit conditions.		Y		~

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

EIA Reference	EM&A Manual		Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Imp	olementa Stages	tion	Status *
	Keference					D	С	0	
6.1	-	Excess material shall be cleaned from the decks and exposed fittings of barges and hopper dredgers before the vessel is moved.	All areas/ throughout construction period	Contractor	Marine Fill Committee Guidelines. DASO permit conditions.		Y		~
6.1	-	Adequate freeboard shall be maintained on barges to reduce the likelihood of decks being washed by wave action;	All areas/ throughout construction period	Contractor	Marine Fill Committee Guidelines. DASO permit conditions.		Y		N/A
6.1	-	All vessels shall be sized such that adequate clearance is maintained between vessels and the sea bed at all states of the tide to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash.	construction period	Contractor	Marine Fill Committee Guidelines. DASO permit conditions.		Y		N/A
6.1	-	The works shall not cause foam, oil, grease, litter or other objectionable matter to be present in the water within and adjacent to the works site.		Contractor	Marine Fill Committee Guidelines. DASO permit conditions.		Y		~
6.1	5.2	Silt curtain shall have proved effectiveness from the producer and shall be fully maintained throughout the works by the contractor.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		1
6.1	-	The daily maximum production rates shall not exceed those assumed in the water quality assessment.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		~
6.1	-	The dredging and filling works shall be scheduled to spread the works evenly over a working day.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		~

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

EIA Reference	EM&A Manual	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Imp	lementa Stages	tion	Status *
	Reference					D	С	0	
Land Works									
6.1	-	Wastewater from temporary site facilities should be controlled to prevent direct discharge to surface or marine waters.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		<b>√</b>
6.1	-	Sewage effluent and discharges from on-site kitchen facilities shall be directed to Government sewer in accordance with the requirements of the WPCO or collected for disposal offsite. The use of soakaways shall be avoided.	construction period	Contractor	TM-EIAO		Y		×
6.1	-	Storm drainage shall be directed to storm drains via adequately designed sand/silt removal facilities such as sand traps, silt traps and sediment basins. Channels, earth bunds or sand bag barriers should be provided on site to properly direct stormwater to such silt removal facilities. Catchpits and perimeter channels should be constructed in advance of site formation works and earthworks.	*	Contractor	TM-EIAO		Y		<>
6.1	-	Silt removal facilities, channels and manholes shall be maintained and any deposited silt and grit shall be removed regularly, including specifically at the onset of and after each rainstorm.		Contractor	TM-EIAO		Y		1
6.1	-	Temporary access roads should be surfaced with crushed stone or gravel.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		~
6.1	-	Rainwater pumped out from trenches or foundation excavations should be discharged into storm drains via silt removal facilities.		Contractor	TM-EIAO		Y		1
6.1	-	Measures should be taken to prevent the washout of construction materials, soil, silt or debris into any drainage system.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		~
6.1	-	Open stockpiles of construction materials (e.g. aggregates and sand) on site should be covered with tarpaulin or similar fabric during rainstorms.		Contractor	TM-EIAO		Y		~

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

EIA Reference	EM&A Manual	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Imj	plementa Stages	tion	Status *
	Reference					D	С	0	
6.1	5.8	Manholes (including any newly constructed ones) should always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris from getting into the drainage system, and to prevent storm run-off from getting into foul sewers.	construction period	Contractor	TM-EIAO		Y		~
6.1	-	Discharges of surface run-off into foul sewers must always be prevented in order not to unduly overload the foul sewerage system.		Contractor	TM-EIAO		Y		<b>v</b>
6.1	-	All vehicles and plant should be cleaned before they leave the construction site to ensure that no earth, mud or debris is deposited by them on roads. A wheel washing bay should be provided at every site exit.	construction period	Contractor	TM-EIAO		Y		~
6.1	-	Wheel wash overflow shall be directed to silt removal facilities before being discharged to the storm drain.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓
6.1	-	Section of construction road between the wheel washing bay and the public road should be surfaced with crushed stone or coarse gravel.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓
6.1	-	Wastewater generated from concreting, plastering, internal decoration, cleaning work and other similar activities, shall be screened to remove large objects.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		~
6.1	-	Vehicle and plant servicing areas, vehicle wash bays and lubrication facilities shall be located under roofed areas. The drainage in these covered areas shall be connected to foul sewers via a petrol interceptor in accordance with the requirements of the WPCO or collected for off site disposal.	construction period	Contractor	TM-EIAO		Ŷ		N/A
6.1	-	The Contractor shall prepare an oil / chemical cleanup plan and ensure that leakages or spillages are contained and cleaned up immediately.		Contractor	TM-EIAO		Y		<b>√</b>
6.1	-	Waste oil should be collected and stored for recycling or disposal, in accordance with the Waste Disposal Ordinance.	All areas/ throughout construction period	Contractor	TM-EIAO Waste Disposal Ordinance		Y		~

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

EIA Reference	Manual	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Imp	lementa Stages	tion	Status *
	Reference					D	С	0	
6.1		All fuel tanks and chemical storage areas should be provided with locks and be sited on sealed areas. The storage areas should be surrounded by bunds with a capacity equal to 110% of the storage capacity of the largest tank.	construction period	Contractor	TM-EIAO		Y		<b>~</b>
6.1		Surface run-off from bunded areas should pass through oil/grease traps prior to discharge to the stormwater system.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓

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

EIA Reference	EM&A Manual	Environmental Protection Measures	Location/TimingImplementation AgentRelevant Standard or RequirementImplement Stag		plementa Stages	28			
	Reference					D	C	0	1
6.1	-	Roadside gullies to trap silt and grit shall be provided prior to discharging the stormwater into the marine environment. The sumps will be maintained and cleaned at regular intervals.		Design Consultant/ Contractor	TM-EIAO	Y		Y	
6.1	Section 5	All construction works shall be subject to routine audit to ensure implementation of all EIA recommendations and good working practice.	All areas/ throughout l construction period	Contractor	EM&A Manual		Y		<b>*</b>
Water Quality Mor	nitoring								
6.1	Section 5	Water quality monitoring shall be undertaken for suspended solids, turbidity, and dissolved oxygen. Nutrients and metal parameters shall also be measured for Mf sediment operations (only HKBCF and HKLR required handling of Mf sediment) during baseline, backfilling and post construction period. One year operation phase water quality monitoring at designated stations.	s as defined in EM&A Manual, Section 5/ Before, through-out marine construction period, post construction and monthly	Contractor	EM&A Manual		Y	Y	~
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	Y	~
8.14	6.3,6.5	Specification and implementation of 250m dolphin exclusion zone.	All dredging and reclamation areas/Detailed Design/during all reclamation and dredging works	Design Consultant/ Contractor	TMEIA	Y	Y		*
8.15	6.3, 6.5	Specification and deployment of an artificial reef of an area of 3,600m2 in an area where fishing activities are prohibited.	f 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 implemente d 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		✓

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EIA Reference	EM&A Manual	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Imj	plementa Stages	tion	Status *
	Reference					D	C	0	1
8.14	6.3, 6.5	Design and implementation of acoustic decoupling methods for dredging and reclamation works	All areas/ Detailed Design/during dredging and reclamation works	Design Consultant/ Contractor	TMEIA	Y	Y		<b>√</b>
8.15	6.3, 6.4	Pre-construction phase survey and coral translocation	Detailed Design/Prior to construction	Design Consultant/ Contractor	TMEIA	Y	Y		✓
8.15	6.5	Audit coral translocation success	Post translocation	Contractor	TMEIA		Y		✓
7.13	6.5	The loss of habitat shall be supplemented by enhancement planting in accordance with the landscape mitigation schedule.	All areas / As soon as accessible	Contractor	TMEIA		Y		N/A
7.13	6.5	Spoil heaps shall be covered at all times.	All areas / Throughout construction period	Contractor	TMEIA		Y		✓
7.13	6.5	Avoid damage and disturbance to the remaining and surrounding natural habitat	All areas / Throughout construction period	Contractor	TMEIA		Y		✓
7.13	6.5	Placement of equipment in designated areas within the existing disturbed land	All areas / Throughout construction period	Contractor	TMEIA		Y		✓
7.13	6.5	Disturbed areas to be reinstated immediately after completion of the works.	All areas / Throughout construction period	Contractor	TMEIA		Y		✓
7.13	6.5	Construction activities should be restricted to the proposed works boundary.	All areas / Throughout construction period	Contractor	TMEIA		Y		✓
LANDSCAPE	AND VISUAI								
10.9	7.6	The colour and shape of the toll control buildings, ventilation building and administration building shall adopt a design which could blend it into the vicinity elements, and the details will be developed in detailed design stage (DM2)	All areas/detailed design	Design Consultant	TMEIA	Y			N/A
10.9	7.6	Aesthetic design of the viaduct, retaining wall and other structures will be developed under ACABAS submission (DM5)	All areas/detailed design	Design Consultant	TMEIA	Y			N/A
10.9	7.6	Screening of construction works by hoardings around works area in visually unobtrusive colours, to screen works (CM5)	All areas/detailed design/ during construction/post construction	Design Consultant/ Contractor	TMEIA	Y	Y		~
10.9	7.6	Control night-time lighting and glare by hooding all lights (CM6)	All areas/detailed design/ during construction	Design Consultant/ Contractor	TMEIA	Y	Y		N/A

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

EIA Reference	EM&A Manual	nual	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Imj	plementa Stages	tion	Status *
	Reference					D	C	0	1
10.9	7.6	Ensure no run-off into water body adjacent to the Project Area (CM7)	All areas/detailed design/ during construction	Design Consultant/ Contractor	TMEIA	Y	Y		✓
10.9	7.6	Avoidance of excessive height and bulk of buildings and structures (CM8)	All areas/detailed design/ during construction	Design Consultant/ Contractor	TMEIA	Y	Y		<b>√</b>
10.9	7.6	Aesthetically pleasing design (visually unobtrusive and non- reflective) as regard to the form, material and finishes shall be incorporated to all buildings, engineering structures and associated infrastructure facilities (OM5)	All areas/detailed design/ during construction / during operation	Design Consultant/ Contractor	TMEIA	Y	Y	Y	N/A
10.9	7.6	Avoidance of excessive height and bulk of buildings and structures (OM6)	All areas/detailed design/ during construction / during operation	Design Consultant/ Contractor	TMEIA	Y	Y	Y	N/A
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 Waster 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.		Contractor	TMEIA, Works Branch Technical Circular No. 5/99 for the Trip-ticket System for Disposal of Construction and Demolition Material		Y		

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

EIA Reference	EM&A Manual	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Imj	plementa Stages	tion	Status *
	Reference					D	C	0	
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.		Contractor	TMEIA		Y		✓
12.6	8.1	The extent of cutting operation should be optimised where possible. Earth retaining structures and bored pile walls should be proposed to minimise the extent of cutting.	0	Contractor	TMEIA		Y		~
12.6	8.1	The surplus surcharge should be transferred to a fill bank	Reclamation areas / after surcharge works	Contractor	TMEIA		Y		N/A
12.6	8.1	Rock armour from the existing seawall should be reused on the new sloping seawall as far as possible	All areas / throughout construction period	Contractor	TMEIA		Y		~
12.6	8.1	The site and surroundings shall be kept tidy and litter free.	All areas / throughout construction period	Contractor	TMEIA		Y		~
12.6	8.1	No waste shall be burnt on site.	All areas / throughout construction period	Contractor	TMEIA		Y		✓
12.6	8.1	Provisions to be made in contract documents to allow and promote the use of recycled aggregates where appropriate.	Detailed Design	Design Consultant	TMEIA	Y			<b></b>
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.	construction period	Contractor	TMEIA		Y		

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

EIA Reference	EM&A Manual	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Imj	plementa Stages	tion	Status *
	Reference					D	C	0	
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		~
12.6	8.1	Wheel washing facilities shall be used by all trucks leaving the site to prevent transfer of mud onto public roads.	All areas / throughout construction period	Contractor	TMEIA		Y		~
12.6	8.1	Dredged marine mud shall be disposed of in a gazetted marine disposal ground under the requirements of the Dumping at Seas Ordinance.		Contractor	TMEIA		Y		~
12.6	8.1	Standard formwork or pre-fabrication should be used as far as practicable so as to minimise the C&D materials arising. The use of more durable formwork/plastic facing for construction works should be considered. The use of wooden hoardings should be avoided and metal hoarding should be used to facilitate recycling. Purchasing of construction materials should avoid over-ordering and wastage.	construction period	Contractor	TMEIA		Y		V
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.	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		~

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

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Imj	plementa Stages	tion	Status *
	Kelefence					D	C	0	
12.6	8.1	Chemical waste producers should register with the EPD. Chemical waste should be handled in accordance with the Code of Practice on the Packaging, Handling and Storage of Chemical Wastes as follows: <i>f</i> suitable for the substance to be held, resistant to corrosion, maintained in good conditions and securely closed; <i>f</i> Having a capacity of <450L unless the specifications have been approved by the EPD; and w Chinese according to the instructions prescribed in Schedule 2 of the Regulations. <i>f</i> Clearly labelled and used solely for the storage of chemical wastes; <i>f</i> Enclosed with at least 3 sides; <i>f</i> 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; <i>f</i> Adequate ventilation; <i>f</i> Sufficiently covered to prevent rainfall	construction period	Contractor	TMEIA		Y		\$
		entering (water collected within the bund must be tested and disposed of as chemical waste, if necessary); and							
		<i>f</i> Incompatible materials are adequately separated.							
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.		Contractor	TMEIA		Y		~
12.6	8.1	Night soil should be regularly collected by licensed collectors.	All areas / throughout construction period	Contractor	TMEIA		Y		N/A

EIA Reference	EM&A Manual	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Imp	olementa Stages	tion	Status *
	Reference					D	С	0	1
12.6	8.1	General refuse arising on-site should be stored in enclosed bins or compaction units separately from C&D and chemical wastes. Sufficient dustbins shall be provided for storage of waste as required under the Public Cleansing and Prevention of Nuisances By- laws. In addition, general refuse shall be cleared daily and shall be disposed of to the nearest licensed landfill or refuse transfer station. Burning of refuse on construction sites is prohibited.	construction period	Contractor	TMEIA		Y		<>
12.6	8.1	All waste containers shall be in a secure area on hardstanding;	All areas / throughout construction period	Contractor	TMEIA		Y		~
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.		Contractor	TMEIA		Y		~
12.6	8.1	Office wastes can be reduced by recycling of paper if such volume is sufficiently large to warrant collection. Participation in a local collection scheme by the Contractor should be advocated. Waste separation facilities for paper, aluminium cans, plastic bottles, etc should be provided on-site.	construction period	Contractor	TMEIA		Y		~
12.6	Section 8	EM&A of waste handling, storage, transportation, disposal procedures and documentation through the site audit programme shall be undertaken.	0	Contractor	EM&A Manual		Y		~
CULTURAL HI	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

\* Remarks:

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

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

Appendix D

Summary of Action and Limit Levels

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

#### Table D1Action and Limit Levels for 1-hour and 24-hour TSP

#### Table D2Action 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
	Bottom	Bottom
	4.7 mg/L	3.6 mg/L
Turbidity in NTU (Depth- averaged <sup>(b), (c)</sup> )	120% of upstream control station at the same tide of the same day and 95%-ile of baseline data, i.e.,	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 <sup>(b), (c)</sup> )	120% of upstream control station at the same tide of the same day and 95%-ile of baseline data, i.e., 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
- (e) The 1%-ile of baseline data for surface and middle DO is 4.2 mg/L, whilst for bottom DO is 3.6 mg/L.

# Table D3Action and Limit Levels for Impact Dolphin Monitoring

Table D4

		North Lan	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 baseli	[STG < 40% of baseline & ANI < 40% of baseline]	
			and	
		STG < 40% of baseli	STG < $40\%$ of baseline & ANI < $40\%$ of baseline	
Not	tes:			
1.	STG means quarterly encounter rate of number of dolphin sightings, which is <b>6.00 in</b>			
	-	WL during the baseline monitoring	0 0	
2.	NEL and 9.85 in N	5	period	
2.	<b>NEL</b> and <b>9.85 in N</b> ANI means quarte	WL during the baseline monitoring	period f dolphins, which is <b>22.19 in NEL</b>	
2. 3.	NEL and <b>9.85 in N</b> ANI means quarte and <b>44.66 in NWL</b>	WL during the baseline monitoring rly encounter rate of total number o	period f dolphins, which is <b>22.19 in NEL</b> iod	

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

Appendix E

Copies of Calibration Certificates for Air Quality Monitoring

Location Calibrated by Date	: : :	ASR 5 P.F.Yeung 11/12/2016
Sampler Model Serial Number	:	TE-5170 S/N 0816
Calibration Orfice and Standard Serial Number Service Date Slope (m) Intercept (b) Correlation Coefficient(r)	<u>Calibrat</u> : : : :	<u>ion Relationship</u> 2454 14 Mar 2016 2.10326 -0.06696 0.99989
<u>Standard Condition</u> Pstd (hpa) Tstd (K) <u>Calibration Condition</u> Pa (hpa)	:	1013 298.18 1016
Ta(K)	:	295

Resi	stance Plate	dH [green liquid]	Ζ	X=Qstd	IC	Y
		(inch water)		(cubic meter/min)	(chart)	(corrected)
1	18 holes	11.5	3.413	1.655	55	55.36
2	13 holes	9.4	3.086	1.499	49	49.32
3	10 holes	6.6	2.586	1.261	42	42.28
4	7 holes	4.2	2.063	1.013	34	34.22
5	5 holes	2.6	1.623	0.804	26	26.17

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

Sampler Calibration Relationship (Linear Regression)

Slope(m):<u>33.508</u> Intercept(b):<u>-0.289</u>

Correlation Coefficient(r): 0.9989

Checked by: <u>Magnum Fan</u> Date: <u>15/12/2016</u>

Location Calibrated by Date	:	ASR10 P.F.Yeung 11/12/2016
Sampler		
Model	:	TE-5170
Serial Number	:	S/N 8162
Calibration Orfice and Standar Serial Number Service Date Slope (m) Intercept (b) Correlation Coefficient(r)	r <u>d Calibrat</u> : : : : :	ion Relationship 2454 14 Mar 2016 2.10326 -0.06696 0.99989
<u>Standard Condition</u> Pstd (hpa) Tstd (K)	:	1013 298.18
<u>Calibration Condition</u> Pa (hpa) Ta(K)	:	1016 295

Resi	stance Plate	dH [green liquid]	Z	X=Qstd	IC	Y
		(inch water)		(cubic meter/min)	(chart)	(corrected)
1	18 holes	11.8	3.458	1.676	59	59.39
2	13 holes	9.5	3.102	1.507	52	52.34
3	10 holes	6.8	2.625	1.280	45	45.30
4	7 holes	4.4	2.111	1.036	36	36.24
5	5 holes	2.7	1.654	0.818	28	28.18

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):<u>35.873</u> Intercept(b):<u>-1.029</u>

Correlation Coefficient(r): 0.9994

Checked by: <u>Magnum Fan</u>

Location Calibrated by Date	: : :	AQMS1 P.F.Yeung 11/12/2016
<u>Sampler</u> Model Serial Number	:	TE-5170 S/N 1253
Calibration Orfice and Standard C Serial Number Service Date Slope (m) Intercept (b) Correlation Coefficient(r)	alibration : : :	n Relationship 2454 14 Mar 2016 2.10326 -0.06696 0.99989
<u>Standard Condition</u> Pstd (hpa) Tstd (K) <u>Calibration Condition</u> Pa (hpa) Ta(K)	: : : : : : : : : : : : : : : : : : : :	1013 298.18 1016 295

Resi	stance Plate	dH [green liquid]	Ζ	X=Qstd	IC	Y
		(inch water)		(cubic meter/min)	(chart)	(corrected)
1	18 holes	12.4	3.544	1.717	60	60.39
2	13 holes	9.8	3.151	1.530	53	53.35
3	10 holes	7.2	2.701	1.316	45	45.30
4	7 holes	4.6	2.159	1.058	37	37.24
5	5 holes	2.9	1.714	0.847	28	28.18

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):36.351 Intercept(b):-2.131

Correlation Coefficient(r): 0.9990

Checked by: <u>Magnum Fan</u>

Location	:	ASR 1
Calibrated by	:	P.F.Yeung
Date	:	11/12/2016
Sampler Model Serial Number	:	TE-5170 S/N 0146

# Calibration Orfice and Standard Calibration RelationshipSerial Number:2454Service Date:Slope (m):2.10326

Slope (III)	•	2.10520
Intercept (b)	:	-0.06696
Correlation Coefficient(r)	:	0.99989

Standard Condition		
Pstd (hpa)	:	1013
Tstd (K)	:	298.18
Calibration Condition		
Pa (hpa)	:	1016
Ta(K)	:	295

Resi	stance Plate	dH [green liquid]	Ζ	X=Qstd	IC	Y
		(inch water)		(cubic meter/min)	(chart)	(corrected)
1	18 holes	11.6	3.428	1.662	54	54.35
2	13 holes	9.1	3.036	1.476	47	47.31
3	10 holes	6.5	2.566	1.252	40	40.27
4	7 holes	4.6	2.159	1.058	34	34.22
5	5 holes	2.4	1.559	0.773	23	23.15

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):<u>34.473</u> Intercept(b):<u>-3.030</u>

correlation Coefficient(r): 0.9993

Checked by: <u>Magnum Fan</u>

Location Calibrated by Date	:	ASR 6 P.F.Yeung 11/12/2016
Sampler		
Model	:	TE-5170
Serial Number	:	S/N 3957
Calibration Orfice and Standar	d Calibrat	ion Relationship
Serial Number	:	2454
Service Date	:	14 Mar 2016
Slope (m)	:	2.10326
Intercept (b)	:	-0.06696
Correlation Coefficient(r)	:	0.99989

Standard Condition		
Pstd (hpa)	:	1013
Tstd (K)	:	298.18
Calibration Condition		
Pa (hpa)	:	1016

Resi	stance Plate	dH [green liquid]	Ζ	X=Qstd	IC	Y
		(inch water)		(cubic meter/min)	(chart)	(corrected)
1	18 holes	12.0	3.487	1.690	53	53.35
2	13 holes	9.7	3.135	1.522	48	48.31
3	10 holes	7.0	2.663	1.298	42	42.28
4	7 holes	4.5	2.135	1.047	35	35.23
5	5 holes	2.8	1.684	0.833	28	28.18

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):28.959

Intercept(b): 4.462

Correlation Coefficient(r): 0.9993

Checked by: <u>Magnum Fan</u>

Location Calibrated by Date	: : :	ASR 5 P.F.Yeung 11/02/2017
Sampler Model Serial Number	:	TE-5170 S/N 0816
Calibration Orfice and Standard O	Calibration	n Relationship
Serial Number	:	2454
Service Date	:	14 Mar 2016
Slope (m)	:	2.10326
Intercept (b)	:	-0.06696
Correlation Coefficient(r)	:	0.99989
<u>Standard Condition</u> Pstd (hpa) Tstd (K)	:	1013 298.18
<u>Calibration Condition</u> Pa (hpa) Ta(K)	:	1023 287

Resi	stance Plate	dH [green liquid]	Ζ	X=Qstd	IC	Y
		(inch water)		(cubic meter/min)	(chart)	(corrected)
1	18 holes	11.2	3.427	1.661	55	56.32
2	13 holes	9	3.072	1.492	50	51.20
3	10 holes	6.7	2.651	1.292	43	44.03
4	7 holes	4.3	2.123	1.041	36	36.86
5	5 holes	2.7	1.683	0.832	29	29.70

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

Sampler Calibration Relationship (Linear Regression)

Slope(m):<u>32.008</u> Intercept(b):<u>3.172</u> Correlation Coefficient(r):<u>0.9995</u>

Checked by: <u>Magnum Fan</u> Date: <u>15/02/2017</u>

Location Calibrated by Date	:	ASR10 P.F.Yeung 11/02/2017
Sampler		
Model	:	TE-5170
Serial Number	:	S/N 8162
Calibration Orfice and Standar Serial Number	<u>d Calibrat</u>	ion Relationship 2454
Service Date	•	14 Mar 2016
	•	11111112010
Slope (m)	:	2.10326
Intercept (b)	:	-0.06696
Correlation Coefficient(r)	:	0.99989
Standard Condition		
Pstd (hpa)	:	1013
Tstd (K)	:	298.18
Calibration Condition Pa (hpa)		1023
	•	
Ta(K)	•	287

Resi	stance Plate	dH [green liquid]	Ζ	X=Qstd	IC	Y
		(inch water)		(cubic meter/min)	(chart)	(corrected)
1	18 holes	12.2	3.577	1.732	54	55.30
2	13 holes	9.8	3.206	1.556	48	49.15
3	10 holes	7.2	2.748	1.338	42	43.01
4	7 holes	4.6	2.196	1.076	34	34.82
5	5 holes	2.5	1.619	0.802	25	25.60

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):<u>31.500</u> Intercept(b): <u>0.598</u>

Correlation Coefficient(r): 0.9996

Checked by: <u>Magnum Fan</u>

Location Calibrated by Date	: : :	AQMS1 P.F.Yeung 11/02/2017
<u>Sampler</u> Model Serial Number	:	TE-5170 S/N 1253
Calibration Orfice and Standard C Serial Number Service Date Slope (m) Intercept (b) Correlation Coefficient(r)	<u>alibratior</u> : : :	n Relationship 2454 14 Mar 2016 2.10326 -0.06696 0.99989
<u>Standard Condition</u> Pstd (hpa) Tstd (K) <u>Calibration Condition</u> Pa (hpa) Ta(K)	:	1013 298.18 1023 287

Resi	stance Plate	dH [green liquid]	Z	X=Qstd	IC	Y
		(inch water)		(cubic meter/min)	(chart)	(corrected)
1	18 holes	11.6	3.488	1.690	57	58.37
2	13 holes	9.4	3.140	1.525	51	52.22
3	10 holes	6.7	2.651	1.292	44	45.06
4	7 holes	4.5	2.172	1.065	37	37.89
5	5 holes	2.8	1.713	0.847	29	29.70

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

Sampler Calibration Relationship (Linear Regression)

Slope(m):33.356 Intercept(b):1.832

Correlation Coefficient(r): 0.9993

Checked by: <u>Magnum Fan</u> D

Location	:	ASR 1
Calibrated by	:	P.F.Yeung
Date	:	11/02/2017
<u>Sampler</u> Model Serial Number	:	TE-5170 S/N 0146

# Calibration Orfice and Standard Calibration RelationshipSerial Number:2454Service Date:Slope (m):2.10326

Stope (III)	•	2.10520
Intercept (b)	:	-0.06696
Correlation Coefficient(r)	:	0.99989

Standard Condition		
Pstd (hpa)	:	1013
Tstd (K)	:	298.18
Calibration Condition		
Pa (hpa)		1023
I a (lipa)	•	1025

Resi	stance Plate	dH [green liquid]	Ζ	X=Qstd	IC	Y
		(inch water)		(cubic meter/min)	(chart)	(corrected)
1	18 holes	11.5	3.473	1.683	56	57.34
2	13 holes	9.0	3.072	1.492	50	51.20
3	10 holes	7.0	2.709	1.320	44	45.06
4	7 holes	4.6	2.196	1.076	35	35.84
5	5 holes	2.8	1.713	0.847	28	28.67

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):<u>34.810</u> Intercept(b): <u>-1.058</u>

correlation Coefficient(r): 0.9995

Checked by: <u>Magnum Fan</u>

Location	:	ASR 6
Calibrated by	:	P.F.Yeung
Date	:	11/02/2017
Sampler		
Model	:	TE-5170
Serial Number	:	S/N 3957
Calibration Orfice and Standard	Calibra	ation Relationship
Calibration Orfice and Standard Serial Number	Calibra :	ation Relationship 2454
	Calibra : :	
Serial Number	Calibra : : :	2454
Serial Number Service Date	<u>Calibra</u> : : :	2454 14 Mar 2016
Service Date Slope (m)	<u>Calibra</u> : : :	2454 14 Mar 2016 2.10326
Serial Number Service Date Slope (m) Intercept (b)	<u>Calibra</u> : : : :	2454 14 Mar 2016 2.10326 -0.06696

Standard Condition		
Pstd (hpa)	:	1013
Tstd (K)	:	298.18
Calibration Condition		
Pa (hpa)	:	1023
Ta(K)	:	287

Resi	stance Plate	dH [green liquid]	Z	X=Qstd	IC	Y
		(inch water)		(cubic meter/min)	(chart)	(corrected)
1	18 holes	12.0	3.547	1.718	54	55.30
2	13 holes	9.4	3.140	1.525	49	50.18
3	10 holes	6.8	2.670	1.301	43	44.03
4	7 holes	4.5	2.172	1.065	36	36.86
5	5 holes	2.6	1.651	0.817	30	30.72

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):27.603

Intercept(b): <u>7.943</u>

Correlation Coefficient(r): 0.9996

Checked by: <u>Magnum Fan</u>

# **ENVIROTECH SERVICES CO.**

Date of Calibration :	1 November 2016
Brand of Test Meter:	Davis
Model:	Vantage Pro 2 (s/n: AS160104014)
Location :	ASR5
Procedures :	
1. Wind Still Test:	The wind speed sensor was hold by hand until it keep still
2.Wind Speed Test:	The wind meter was on-site calibrated against the Anemometer
3. Wind Direction Test :	The wind meter was on-site calibrated against the marine compass at four directions
Results:	

# **Calibration Report of Wind Meter**

Wind Still Test

W	/ind Speed (m/s)	
	0.00	

Wind Speed Test

Davis (m/s)	Anemomete (m/s)
1.2	1.3
2.5	2.8
3.3	3.6

Wind Direction Test

Davis (o)	Marine Compass (o)
271	270
1	0
91	90
179	180

Calibrated by:

Fai

Checked by : Fat

Yeung Ping Fai (Technical Officer)

Ho Kam Fat (Senior Technical Officer)



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 - Ma Operator ========	r 14, 2016 Tisch ==========	Ta (K) - Pa (mm) -	295 - 745.49			
PLATE OR Run # 1 2 3 4 5	VOLUME START (m3) NA NA NA NA NA NA	VOLUME STOP (m3) NA NA NA NA NA NA	DIFF VOLUME (m3) 1.00 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 [H20 (T	a/Pa)]

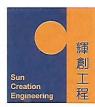
## CALCULATIONS

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



輝創工程有限公司

Sun Creation Engineering Limited

Calibration and Testing Laboratory

# Certificate of Calibration 校正證書

Certificate No.: C165934 證書編號

	/ 送檢項目	] ( Job No. / 序引編號: IC1	.6-2438) Date of Receipt / 收件	+日期:26 October 2010
TIEM TESTED				
Description / 儀器		Anemometer		
Manufacturer / 製		Lutron		
Model No. / 型號	:	AM-4201		
Serial No. / 編號	:	AF.27513		
Supplied By / 委言	七省:	Envirotech Services Co.	Hoi Wing Road, Tuen Mun,	
		New Territories, Hong Kon		
TEST CONDITI	ONS / 测	試條件	•	
Temperature / 溫/	度: (2	23 ± 2)°C	Relative Humidity / 相	對濕度 : (55±20)%
Line Voltage / 電)	壓:	- 11.00000000000000000000000000000000000		
TEST SPECIFIC	CATIONS	5/測試規範		
Calibration check				
			and the second	*
DATE OF TEST	/ 測試日	期 : 27 October 2016		
DATE OF TEST TEST RESULTS				
TEST RESULTS	5/測試結			
TEST RESULTS The results apply	5 / 測試結 to the part	果		
TEST RESULTS The results apply The results are de	5 / 測試結 to the part tailed in th nt used for	果 cicular unit-under-test only. ne subsequent page(s). calibration are traceable to N	ational Standards via :	-
TEST RESULTS The results apply The results are de The test equipmen	5 / 測試結 to the part tailed in th nt used for	果 cicular unit-under-test only. ne subsequent page(s). calibration are traceable to N	ational Standards via :	
TEST RESULTS The results apply The results are de The test equipmen	5 / 測試結 to the part tailed in th nt used for	果 cicular unit-under-test only. ne subsequent page(s). calibration are traceable to N	ational Standards via :	
TEST RESULTS The results apply The results are de The test equipmen	5 / 測試結 to the part tailed in th nt used for	果 iccular unit-under-test only. ne subsequent page(s). calibration are traceable to N GmbH, Germany	ational Standards via :	
TEST RESULTS The results apply The results are de The test equipmen - Testo Industrial	5 / 測試結 to the part tailed in th nt used for	果 cicular unit-under-test only. ne subsequent page(s). calibration are traceable to N	ational Standards via :	
TEST RESULTS The results apply The results are de The test equipmen	5 / 測試結 to the part tailed in th nt used for	果 iccular unit-under-test only. ne subsequent page(s). calibration are traceable to N GmbH, Germany	ational Standards via :	
TEST RESULTS The results apply The results are de The test equipmen - Testo Industrial	5 / 測試結 to the part tailed in th nt used for	果 icular unit-under-test only. ne subsequent page(s). calibration are traceable to N GmbH, Germany	ational Standards via :	
TEST RESULTS The results apply The results are de The test equipmen - Testo Industrial Tested By 測試	5 / 測試結 to the part tailed in th nt used for	果 ticular unit-under-test only. he subsequent page(s). calibration are traceable to N GmbH, Germany MMM T L Shek		
TEST RESULTS The results apply The results are de The test equipmen - Testo Industrial Tested By 測試	5 / 測試結 to the part tailed in th nt used for	果 ficular unit-under-test only. he subsequent page(s). calibration are traceable to N GmbH, Germany T L Shek Assistant Engineer	Date of Issue :	28 October 2016
TEST RESULTS The results apply The results are de The test equipmen - Testo Industrial Tested By 測試	5 / 測試結 to the part tailed in th nt used for	果 ticular unit-under-test only. he subsequent page(s). calibration are traceable to N GmbH, Germany MMM T L Shek		28 October 2016

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



輝創工程有限公司

Sun Creation Engineering Limited

Calibration and Testing Laboratory

# Certificate of Calibration 校正證書

Certificate No.: C165934 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 10 measurements at each calibration point.
- 3. Test equipment :

Equipment ID	Description	Certificate No.
CL386	Multi-function Measuring Instrument	S12109

- 4. Test procedure : MA130N.
- 5. Results :

Air Velocity

Applied	UUT	Measured Correction		
Applied Value	Reading	Value Measurement Uncertainty		
(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。



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

Internal Calibration & Performa	nce Check of pH Meter
Equipment Ref. No. : <u>ET/EW007/008</u> Manufact	
Model No. : <u>HI9125</u> Serial No	
Date of Calibration : <u>27/01/2017</u> Calibratio	n Due Date : <u>26/02/2017</u>
Liquid Junction Error	003/5.2/002/07 (20℃)
Primary Standard Solution Used : Phosphate Ref No	o. of Primary Solution: <u>003/5.2/002/08 (25℃)</u>
Temperature of Solution :25.0 / 20.0	$\Delta pH_{\frac{1}{2}} = 0.080 / 0.080$
pH value of diluted buffer : 6.98 / 6.98	pH (S) = <u>6.865</u> / 6.881
$\Delta pH = pH(S) - pH of diluted buffer = 0.115 / 0.099$	_(Observed Deviation)
Liquid Junction Error $(\Delta pH_j) = \Delta pH - \Delta pH_{\frac{1}{2}} = 0.04$	/ 0.02
Shift on Stirring	
pH of buffer solution (with stirring), $pH_s = 6.91$	/ 6.91
Shift on stirring, $\Delta pH_s = pH_s - pH(S) - \Delta pH_j = 0.01$	/ 0.01
Noise	
Noise, $\Delta pH_n$ = difference between max and min reading :	0.01 / 0.01
Verification of ATC	
Ref. No. of reference thermometer used:	ET/0521/018 / ET/0521/019
Temperature record from the reference thermometer $(T_R)$ :	<u>25.0 / 20.0 °</u> C
Temperature record from the ATC (T <sub>ATC</sub> ):	<u>24.9 / 19.9 <sup>o</sup>C</u>
Temperature Difference,  T <sub>R</sub> - T <sub>ATC</sub>	$\frac{0.1 / 0.1 ^{\circ} C}{+0.1 / +0.1 ^{\circ} C}$
Correction	<u>+0.1 / +0.1</u> °C
Acceptance Criteria	
Performance Characteristic	Acceptable Range
Liquid Junction Error ∆pHj	≤0.05
Shift on Stirring ∆pHs	≤0.02
Noise <u>ApHn</u>	
Verifcation of ATC Temperature Difference	≤0.5°C
The pH meter complies * / <del>does not comply</del> * with the specif acceptable * / <del>unacceptable</del> * for use. Measurements are tra * Delete as appropriate	
Calibrated by:	Checked by :



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

Internal Calibration & Performan	ce Check of pH Meter
Equipment Ref. No. : ET/EW007/008 Manufactur	rer : <u>HANNA</u>
Model No. : HI9125 Serial No.	: H0040409
Date of Calibration : 27/02/2017 Calibration	Due Date : 26/03/2017
Liquid Junction Error	003/5.2/002/09 (20℃)
Discourse of the line of the Discourse in the Discourse i	
	of Primary Solution: <u>003/5.2/002/08 (25℃)</u> ΔpH ½ = 0.080 / 0.080
Meta-competitional and a second se	SUBJECT/COMPACT/COMP
pH value of diluted buffer : <u>6.97 / 6.97</u>	
	(Observed Deviation)
Liquid Junction Error $(\Delta pH_j) = \Delta pH - \Delta pH_{\frac{1}{2}} = 0.02$ /	0.01
Shift on Stirring	
pH of buffer solution (with stirring), $pH_s = 6.90$ /	6.90
Shift on stirring, $\Delta pH_s = pH_s - pH(S) - \Delta pH_j = 0.01 /$	0.01
Noise	
NOISE	
Noise, $\Delta pH_n = difference between max and min reading :$	0.01 / 0.01
Verification of ATC	
Ref. No. of reference thermometer used: ET	T/0521/018 / ET/0521/019
Temperature record from the reference thermometer $(T_R)$ :	<u>25.0 / 20.0 <sup>o</sup>C</u>
Temperature record from the ATC (T <sub>ATC</sub> ):	<u>24.9 / 19.9 <sup>o</sup>C</u>
Temperature Difference,  T <sub>R</sub> - T <sub>ATC</sub>	0.1 / 0.1 °C
Correction	+0.1 / +0.1 <sup>O</sup> C
Acceptance Criteria	
Performance Characteristic	Acceptable Range
Liquid Junction Error ∆pHj	≤0.05
Shift on Stirring ΔpHs	≤0.02
Noise <u>A</u> pHn	≤0.02
Verifcation of ATC Temperature Difference	≤0.5°C
The pH meter complies * / <del>does not comply</del> * with the specifie acceptable * / <del>unacceptable</del> * for use. Measurements are trac * Delete as appropriate	
Calibrated by: <u>Bunn</u> Ch	necked by :



Performance Check of Turbidity Meter									
Equipment Ref. No. : <u>ET/0505/016</u> Manufacturer : <u>HACH</u>									
Model No.         : <u>2100Q</u> Serial No.         : <u>16030C0484</u>									
Date of Calibration : $26/01/17$ Due Date : $25/04/2017$									
	r								
Theoretical Value of Turbidity Standard (NTU)	Measured Value (NTU)	Difference % *							
20	20.8	4.0							
100	99.1	-0.9							
800	779	-2.6							
(*) Difference = (Measured Value	e – Theoretical Value) / The	oretical Value x 100							
Acceptance Criteria Diffe	erence : -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 : <u>Biams</u>	Checked by :	(LL							



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

	NTOONNAMOODUPUT/DAVIDGADA.com/aa.aa.aa.aa.					Dissolved		*********	an a
quipment Ref. No.	: <u>ET/EW/008/008</u>				Manufactur	er	: <u>YSI</u>		
lodel No.	: <u>Pro 20</u>	)30				Serial No.		: <u>14M1014</u>	189
ate of Calibration	: 19/01/	/2017		www.condenseta		Calibration	Due Date	: 18/04/20	17
Temperature Verifi	cation			******	******	######################################		iyan ku unun kun yi ku unu ku di dan dan ang ang ang ang ang ang ang ang ang a	****
Ref. No. of Reference	ce Thermom	eter :	ET/05	21/017	*****			1994 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1	
Ref. No. of Water B	ath :		10 10 m		an Talantan San Salahan ng manado				
			Francisco			1111/1111/1111/1111/1111/1111/1111/1111/1111	******		
D.C. 701							erature (°C)	1	
Reference Th			Measu			20.3	Corrected		19.8
	1eter reading	5	Measu	red		19.8	Difference		0.0
Standardization of s	sodium thios	sulphate	(Na 2 S 2 O 3)	solution					**********
Reagent No. of Na <sub>2</sub> S	$S_2O_3$ titrant		CPE/012/4.5	/001/15	Reag	ent No. of 0.02	25N K <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub>	CPE/012/	4.4/002/16
P	• 2000 MILATEORNAL AND ALL ON PORTUGATION OF					Trial	1	Tri	al 2
Initial Vol. of Na <sub>2</sub> S <sub>2</sub>						0.00		10.	35
Final Vol. of Na <sub>2</sub> S <sub>2</sub> C						10.35	20.70		
Vol. of $Na_2S_2O_3$ use			al-An-denimination and the contract of the states	-		10.35	10.35		
Normality of Na <sub>2</sub> S <sub>2</sub> C	and the second se	-	Guicent aguara declaration and Chaptana an			0.02415 0.02415			415
Average Normality (		O <sub>3</sub> solutio	on (N)	****		0.02415			
Acceptance criteria,			014mmmorf40.0140.0100000000000000000000000000000				Less than ±	0.001N	
Calculation:	Normality	of $Na_2S_2$	$D_3, \mathbb{N} = 0.25$	mi Na <sub>2</sub>	$S_2O_3$ used	1		MATERIA COMPANY OF THE OTHER OF T	
Lineality Checking Determination of dis	ssolved oxyg	en conte	nt by Winkle	r Titrati	on *				
Purging Time (min)			*****	2	******		5	1	0
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	1	1.40	23.00	0.00	6.10	9.90
Final Vol. of Na <sub>2</sub> S <sub>2</sub> C		]	11.40	2	3.00	29.60	6.10	9.90	13.80
Vol. (V) of $Na_2S_2O_3$			11.40	1	1.60	6.60	6.10	3.80	3.90
Dissolved Oxygen (I	<b>DO</b> ), mg/L		7.39	7	.52	4.28	3.95	2.46	2.53
Acceptance criteria,				un + 0.3r	ng/L	Less than	+ 0.3mg/L	Less than -	+ 0.3mg/L
Calculation:	DO (mg/L)	= V x N	x 8000/298						
Purging time, min	DO	meter rea	ding, mg/L		Winkle	r Titration resu	ılt *, mg/L	Difference	(%) of DO
1 urging time, tim	1	2	Aver	age	1	2	Average	Con	tent
2	7.39	7.48	7.4	4	7.39	7.52	7.46	0.2	.7
5	4.19	4.14	4.1	7	4.28	3.95	4.12	1.2	21
J									
	2.39	2.42	2.4		2.46	1 2.53	2.30	3.0	)/



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

	ıg							
	DO meter re	ading, mg/L	, ,			0.00		
		9993199392030103041234144049			51.005-2-20581-05050-007-007-007-007-007-007-007-007-0			
Salinity Checking						10-21-000-000-000-000-000-000-000-000-00	าที่สายสารและเป็นสารสารสารสารสารสารสารสารสารสารสารสารสารส	
Reagent No. of NaC	Cl (10ppt)	СР	E/012/4.7/003/.	33 Reag	ent No. of Na	Cl (30ppt)	CPE/012/4.8/003/33	
Determination of d	issolved oxyg	en content l	by Winkler Titr	ation **				
Salinity (ppt)				10	inn ndoo oʻzhan na ndoochan dan tid exita no acaanan		30	
Trial	******		1		2	1	2	
Initial Vol. of $Na_2S_2$	2O3 (ml)		0.00		10.90	21.80	31.20	
Final Vol. of $Na_2S_2$	O <sub>3</sub> (ml)		10.90		21.80	31.20	40.60	
Vol. (V) of $Na_2S_2O_3$			10.90		10.90	9.40	9.40	
Dissolved Oxygen (	<b>DO</b> ), mg/L		7.07		7.07	6.09	6.09	
Acceptance criteria,				han + 0.3mg	/L	Les	s than + 0.3mg/L	
Calculation:	DO (mg/L)	= V x N x 8	000/298					
Q = 11 = 14 = ( = = = 1)	DO r	neter readin	g, mg/L	Winkler	· Titration res	ult**, mg/L	_ Difference (%) of DC	
Salinity (ppt)	1	2	Average	1	2	Average	Content	
10	7.12	7.07	7.1	7.07	7.07	7.07	0.42	
30	6.14	6.17	6.16	6.09	6.09	6.09	1.14	
<ul> <li>Acceptance Criteria</li> <li>(1) Differenc betwee</li> <li>(2) Linear regression</li> <li>(3) Zero checking: 0</li> <li>(4) Difference (%) o</li> </ul>	en temperature n coefficient : .0mg/L	>0.99			-		nometer : < 0.5 °C	
Γhe equipment comp <del>unacceptable</del> <sup>#</sup> for τ Delete as appropria	use.	<del>rot comply</del> <sup>f</sup>	with the specif	fied requirer	nents and is d	eemed accepta	ble <sup>#</sup>	



Performance Check of Salinity Meter									
Equipment Ref. No. : <u>ET/EW/008/008</u> Manufacturer : <u>YSI</u>									
Model No. : <u>Pro 2030</u> Serial No. : <u>14M101</u>									
Date of Calibration : <u>19/01/</u>	2017	Due Date	: <u>18/04/2017</u>						
Ref. No. of Salinity Stand	dard used (30ppt)		S/001/9						
Salinity Standard Value (ppt)	litterence * (%)								
30.0	30.3		1.00						
(*) Difference (%) = (Measured S	Salinity – Salinity Sta	ndard value) /	Salinity Standard value x 1	00					
Acceptance Criteria	Difference : -10 %	to 10 %							
The salinity meter complies * / does not comply * with the specified requirements and is deemed acceptable * / unacceptable * for use. Measurements are traceable to national standards.									
Checked by :	App:	oved by :	124						

Appendix F

EM&A Monitoring Schedules

## HY/2012/08 - Tuen Mun - Chek Lap Kok Link Northern Connection Sub-sea Tunnel Section Air Quality Impact Monitoring Schedule - February 2017

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

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1-Feb		3-Feb	4-Feb
				1-hour TSP - 3 times		
				24-hour TSP - 1 time		
		7 5		Impact AQM		
5-Feb 1-hour TSP - 3 times	6-Feb	7-Feb	8-Feb 1-hour TSP - 3 times	9-Feb	10-Feb	11-Feb 1-hour TSP - 3 times
24-hour TSP - 3 times			24-hour TSP - 3 times			24-hour TSP - 3 times
24-nour ISP - Tume			24-nour ISP - Tume			24-nour ISP - Tume
Impact AQM			Impact AQM			Impact AQM
12-Feb	13-Feb		15-Feb	16-Feb		
		1-hour TSP - 3 times	10100		1-hour TSP - 3 times	
		24-hour TSP - 1 time			24-hour TSP - 1 time	
		Impact AQM			Impact AQM	
19-Feb			22-Feb			25-Feb
	1-hour TSP - 3 times			1-hour TSP - 3 times		
	24-hour TSP - 1 time			24-hour TSP - 1 time		
	Impact AQM			Impact AQM		
26-Feb	27-Feb	28-Feb				
1-hour TSP - 3 times						
24-hour TSP - 1 time						
Impact AQM						

## HY/2012/08 - Tuen Mun - Chek Lap Kok Link Northern Connection Sub-sea Tunnel Section Tentative Air Quality Impact Monitoring Schedule - March 2017

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

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1-Mar	2-Mar	3-Mar	4-Mar
			1-hour TSP - 3 times			1-hour TSP - 3 times
			24-hour TSP - 1 time			24-hour TSP - 1 time
5-Mar	6-Mar	7-Mar	Impact AQM 8-Mar	9-Mar	10-Mar	Impact AQM 11-Ma
0-1110	0-11101	1-hour TSP - 3 times	U-IVIAI	5-11101	1-hour TSP - 3 times	I I-IVICI
		24-hour TSP - 1 time			24-hour TSP - 1 time	
		Impact AQM			Impact AQM	
12-Mar		14-Mar	15-Mar		17-Mar	18-Mai
	1-hour TSP - 3 times			1-hour TSP - 3 times		
	24-hour TSP - 1 time			24-hour TSP - 1 time		
19-Mar	Impact AQM 20-Mar	21-Mar	22-Mar	Impact AQM	24-Mar	25-Mar
1-hour TSP - 3 times	20-10121	21-10181	1-hour TSP - 3 times	23-10141	24-10181	1-hour TSP - 3 times
24-hour TSP - 1 time			24-hour TSP - 1 time			24-hour TSP - 1 time
Impact AQM			Impact AQM			Impact AQM
26-Mar	27-Mar	28-Mar		30-Mar		
		1-hour TSP - 3 times			1-hour TSP - 3 times	
		24-hour TSP - 1 time			24-hour TSP - 1 time	
		Impact AQM			Impact AQM	

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

# HY/2012/08 - Tuen Mun - Chek Lap Kok Link - Northern Connection Sub-sea Tunnel Section Impact Marine Water Quality Monitoring (WQM) Schedule (February 2017)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	у
			01-Feb		eb 03-Feb		04-Feb
				WQM		WQM	
				Mid-Flood		Mid-Flood	
				10:42		12:15	
				(08:57 - 12:27)		(10:30 - 14:00)	
				Mid-Ebb		Mid-Ebb	
				16:46		19:08	
				(15:01 - 18:31)		(17:23 - 20:53)	
05-Feb	06-Feb	07-Feb	08-Feb	09-F	eb 10-Feb		11-Feb
		WQM		WQM		WQM	
		Mid-Ebb		Mid-Ebb		Mid-Flood	
		10:00		12:00		7:58	
		(08:15 - 11:45)		(10:15 - 13:45)		(06:13 - 09:43)	
		Mid-Flood		Mid-Flood		Mid-Ebb	
		15:21		17:19		13:25	
		(13:36 - 17:06)		(15:34 - 19:04)		(11:40 - 15:10)	
12-Feb	13-Feb		15-Feb	16-F	eb 17-Feb		18-Feb
		WQM		WQM		WQM	
		Mid-Flood		Mid-Flood		Mid-Flood	
		9:27		10:17		11:21	
		(07:42 - 11:12) Mid-Ebb		(08:32 - 12:02) Mid-Ebb		(09:36 - 13:06) Mid-Ebb	
		15:05		16:17		18:04	
		(13:20 - 16:50)					
19-Feb	20-Feb		22-Feb	(14:32 - 18:02) 23-F	eb 24-Feb	(16:19 - 19:49)	25-Feb
19-1 60	20-1 60	WQM		WQM		WQM	20-1 60
		Mid-Ebb		Mid-Ebb		Mid-Ebb	
		9:37		11:19		12:34	
		(08:50 - 10:20)		(09:34 - 13:04)		(10:49 - 14:19)	
		Mid-Flood		Mid-Flood		Mid-Flood	
		14:02		16:21		17:57	
		(12:17 - 15:47)		(14:36 - 18:06)		(16:12 - 19:42)	
26-Feb	27-Feb	28-Feb		(11.00 10.00)		(10.12 10.12)	
		WQM					
		Mid-Flood					
		8:22					
		(06:37 - 10:07)					
		Mid-Ebb					
		14:13					
		(12:28 - 15:58)					

# HY/2012/08 - Tuen Mun - Chek Lap Kok Link - Northern Connection Sub-sea Tunnel Section Impact Marine Water Quality Monitoring (WQM) Schedule (March 2017)

Sunday	Monday	Tuesday	Wednesday	Thursda		Friday	Saturda	
			01-Mar		02-Mar	03-Mar		04-Mar
				WQM			WQM	
				Mid-Flood			Mid-Flood	
				9:22			10:33	
				(07:37 - 11:07)			(08:48 - 12:18)	
				Mid-Ebb			Mid-Ebb	
				15:31			17:16	
				(13:46 - 17:16)			(15:31 - 19:01)	
05-Mar	06-Mar		08-Mar		09-Mar	10-Mar		11-Mar
		WQM		WQM			WQM	
		Mid-Ebb		Mid-Ebb			Mid-Ebb	
		8:29		11:08			12:31	
		(07:10 - 09:45)		(09:23 - 12:53)			(10:46 - 14:16)	
		Mid-Flood		Mid-Flood			Mid-Flood	
		13:36		16:24			18:11	
		(11:51 - 15:21)		(14:39 - 18:09)			(16:26 - 19:56)	
12-Mar	13-Mar		15-Mar		16-Mar	17-Mar		18-Mar
		WQM		WQM			WQM	
		Mid-Flood		Mid-Flood			Mid-Flood	
		8:13		9:00			9:52	
		(06:28 - 09:58)		(07:15 - 10:45)			(08:07 - 11:37)	
		Mid-Ebb		Mid-Ebb			Mid-Ebb	
		14:04		15:07			16:22	
10 Mar	00 14-	(12:19 - 15:49)		(13:22 - 16:52)	00 14-1		(14:37 - 18:07)	05 Ман
19-Mar	20-Mar		22-Mar	WOM	23-Mar	24-Mar		25-Mar
		WQM Mid-Flood		<b>WQM</b> Mid-Ebb				
		6:44		10:12			Mid-Ebb	
							11:37	
		(04:59 - 08:29) Mid-Ebb		(08:45 - 11:40) Mid-Flood			(09:52 - 13:22)	
		19:42		14:50			Mid-Flood 16:57	
		(17:57 - 21:27)		(13:05 - 16:35)			(15:12 - 18:42)	
26-Mar	27-Mar	(17.57 - 21.27) 28-Mar	29-Mar	(13.05 - 16.35)	30-Mar	31-Mar	(15.12 - 16.42)	
20-11/181	27-10181	WQM		WQM	SU-IVIAI	31-141		
		Mid-Ebb		Mid-Flood				
		13:15		8:14				
		(11:30 - 15:00)		(06:29 - 09:59)				
		Mid-Flood		(00.29 - 09.59) Mid-Ebb				
		19:18		14:31				
		(17:33 - 21:03)		(12:46 - 16:16)				
		(17.33 - 21.03)		(12.40 - 10.10)				

## HY/2012/08 - Tuen Mun - Chek Lap Kok Link Northern Connection Sub-sea Tunnel Section Impact Dolphin Monitoring Survey Monitoring Schedule - February 2017

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1-Feb	2-Feb	3-Feb	4-Feb
5-Feb		7-Feb Impact Dolphin Monitoring	8-Feb	9-Feb Impact Dolphin Monitoring	10-Feb	11-Feb
12-Feb	13-Feb	14-Feb	15-Feb	16-Feb Impact Dolphin Monitoring	17-Feb	18-Feb
19-Feb		21-Feb Impact Dolphin Monitoring	22-Feb	23-Feb	24-Feb	25-Feb
26-Feb	27-Feb	28-Feb				

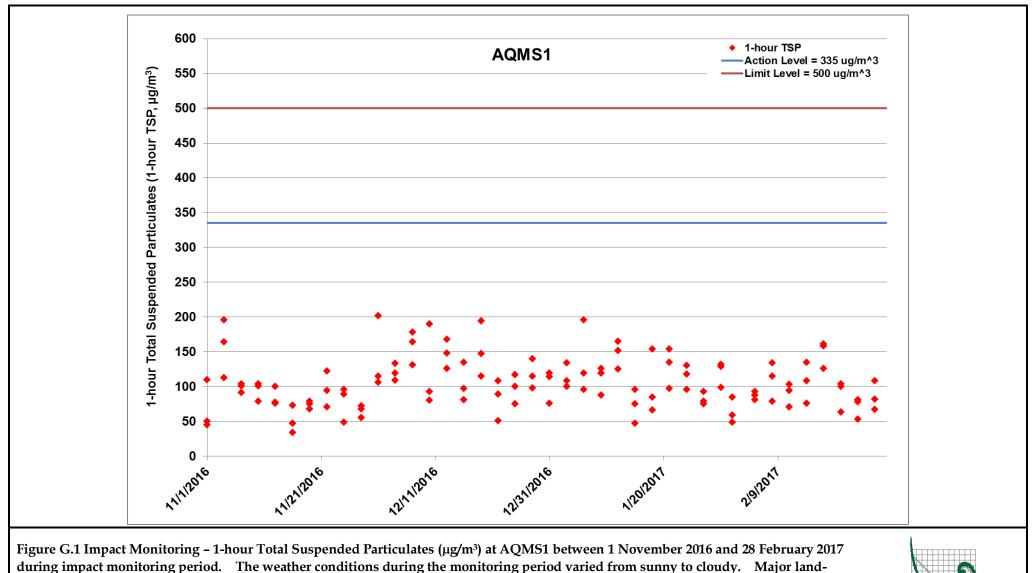
## HY/2012/08 - Tuen Mun - Chek Lap Kok Link Northern Connection Sub-sea Tunnel Section Tentative Impact Dolphin Monitoring Survey Monitoring Schedule - March 2017

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1-Mar			4-Mar
5-Mar	6-Mar	7-Mar Impact Dolphin Monitoring	8-Mar	9-Mar	10-Mar	11-Ma
12-Mar	13-Mar		15-Mar Impact Dolphin Monitoring	16-Mar	17-Mar	18-Ma
	20-Mar Impact Dolphin Monitoring	21-Mar	22-Mar	23-Mar	24-Mar	25-Ma
26-Mar	27-Mar	28-Mar	29-Mar	30-Mar	31-Mar	

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.

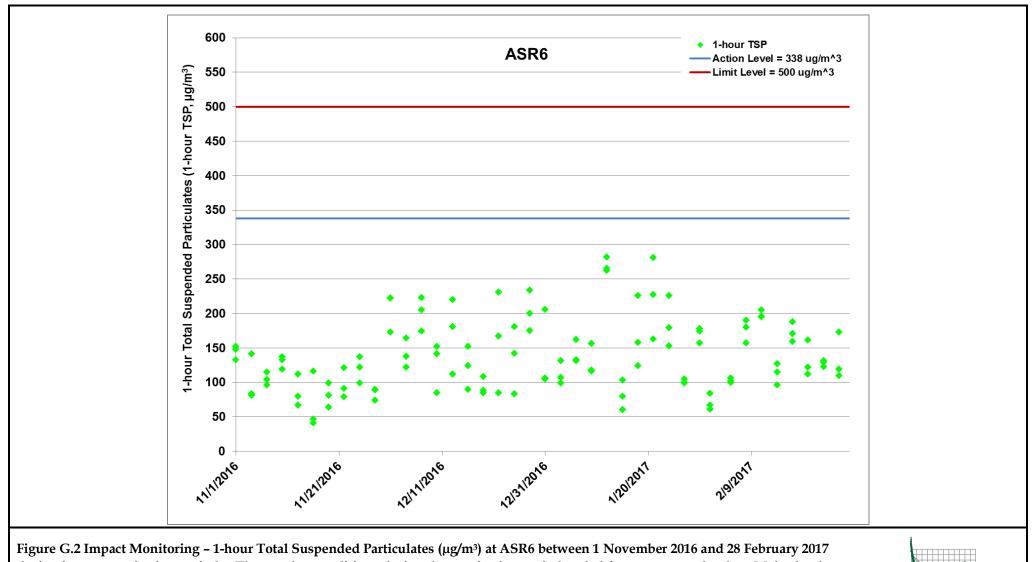
Appendix G

Impact Air Quality Monitoring Results



based construction activities included: Jet Grouting, CSM Ground Treatment and Diaphragm Wall Construction (1/11/2016 – 28/2/2017) and Box Culvert Extension (1/11/2016 – 28/2/2017). *Ref:* 0212330\_Impact AQM graphs\_ February 2017\_REV a.xlsx





during impact monitoring period. The weather conditions during the monitoring period varied from sunny to cloudy. Major landbased construction activities included: Jet Grouting, CSM Ground Treatment and Diaphragm Wall Construction (1/11/2016 – 28/2/2017) and Box Culvert Extension (1/11/2016 – 28/2/2017). Ref: 0212330\_Impact AQM graphs\_February 2017\_REV a.xlsx



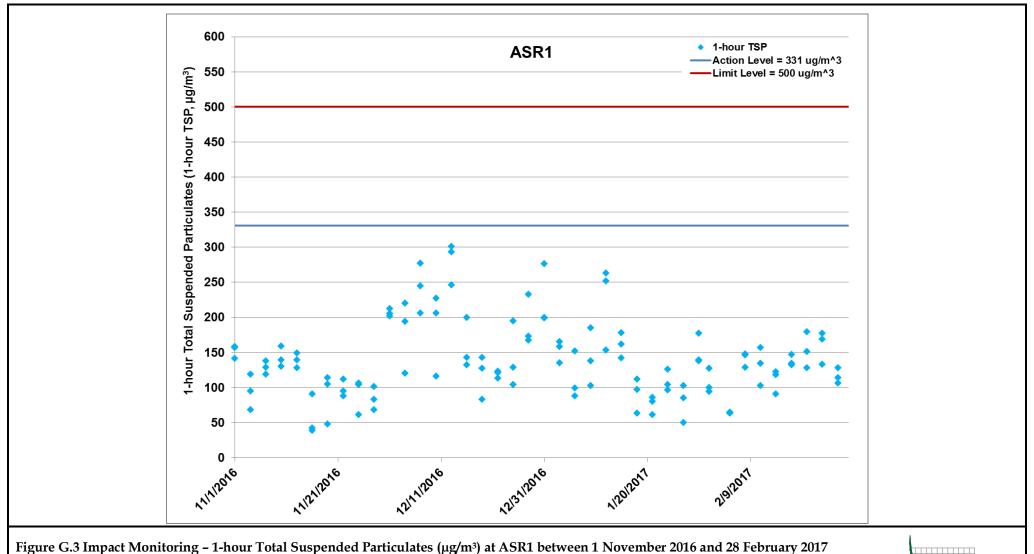


Figure G.3 Impact Monitoring – 1-hour Total Suspended Particulates (µg/m<sup>3</sup>) at ASR1 between 1 November 2016 and 28 February 2017 during impact monitoring period. The weather conditions during the monitoring period varied from sunny to cloudy. Major land-based construction activities included: Jet Grouting, CSM Ground Treatment and Diaphragm Wall Construction (1/11/2016 – 28/2/2017) and Box Culvert Extension (1/11/2016 – 28/2/2017). *Ref:* 0212330\_Impact AQM graphs\_February 2017\_REV a.xlsx



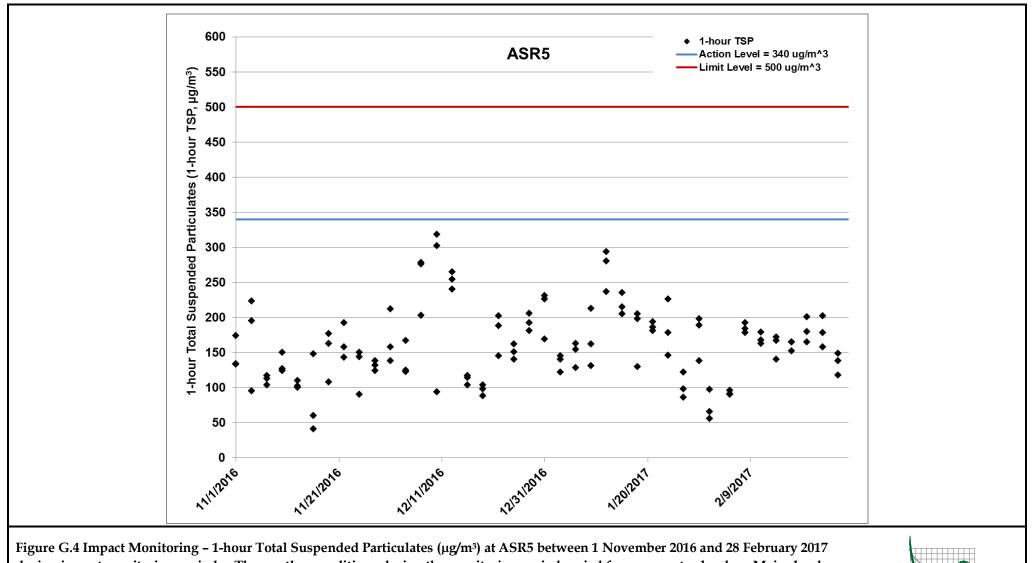


Figure G.4 Impact Monitoring – 1-hour Total Suspended Particulates ( $\mu$ g/m<sup>3</sup>) at ASR5 between 1 November 2016 and 28 February 2017 during impact monitoring period. The weather conditions during the monitoring period varied from sunny to cloudy. Major land-based construction activities included: Jet Grouting, CSM Ground Treatment and Diaphragm Wall Construction (1/11/2016 – 28/2/2017) and Box Culvert Extension (1/11/2016 – 28/2/2017). *Ref:* 0212330\_Impact AQM graphs\_February 2017\_REV a.xlsx



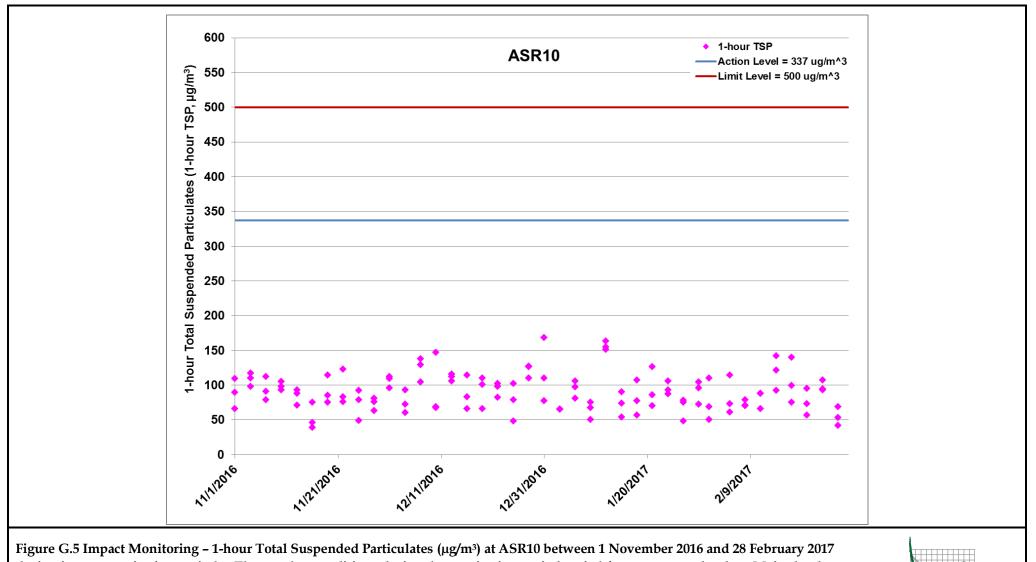


Figure G.5 Impact Monitoring – 1-hour Total Suspended Particulates ( $\mu$ g/m<sup>3</sup>) at ASR10 between 1 November 2016 and 28 February 2017 during impact monitoring period. The weather conditions during the monitoring period varied from sunny to cloudy. Major land-based construction activities included: Jet Grouting, CSM Ground Treatment and Diaphragm Wall Construction (1/11/2016 – 28/2/2017) and Box Culvert Extension (1/11/2016 – 28/2/2017). *Ref:* 0212330\_Impact AQM graphs\_February 2017\_REV a.xlsx



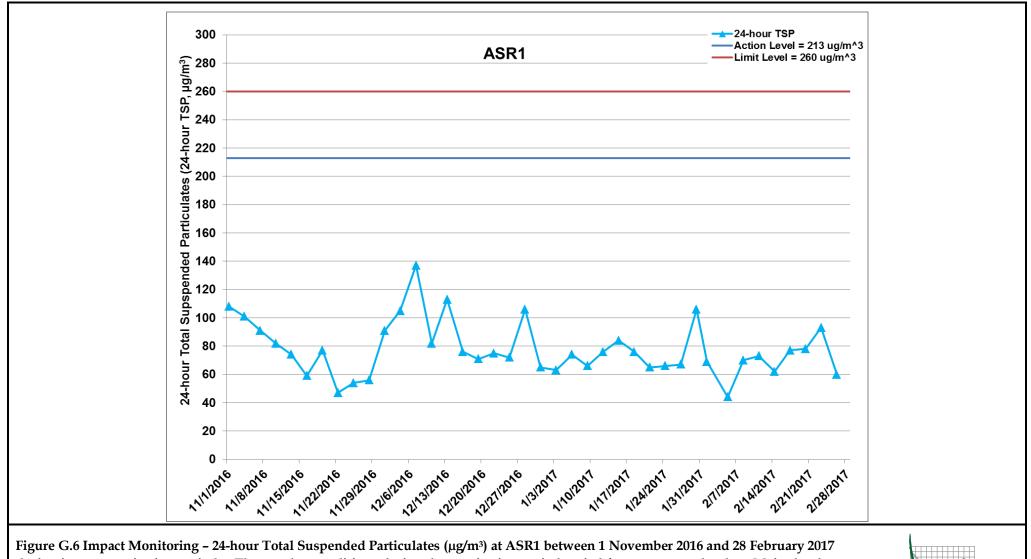
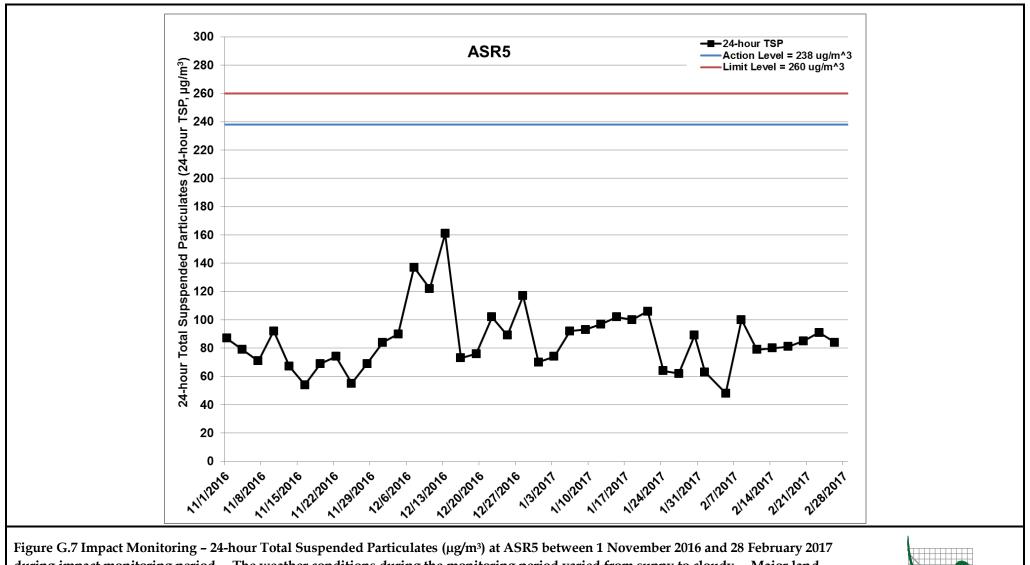


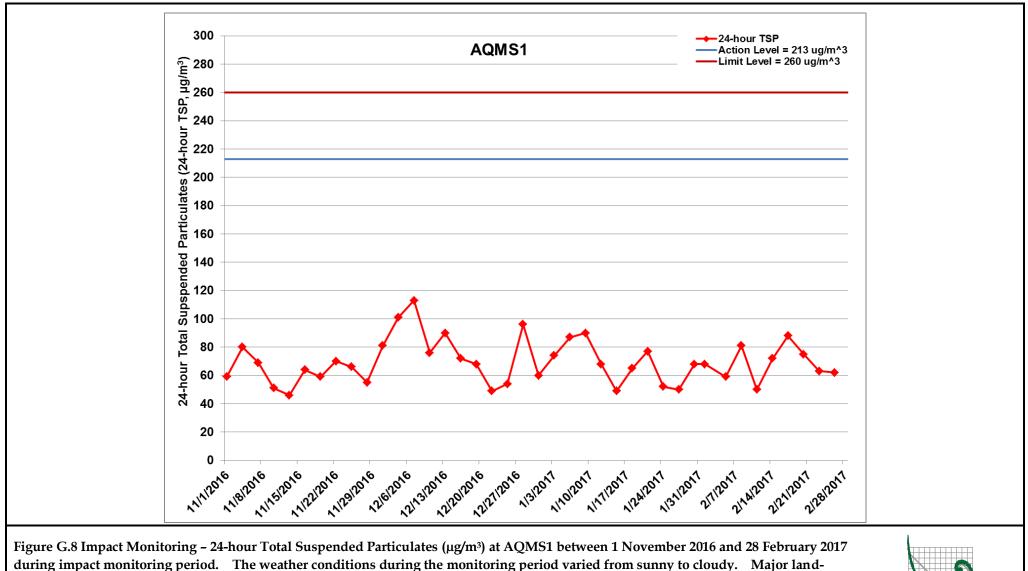
Figure G.6 Impact Monitoring – 24-hour Total Suspended Particulates (µg/m<sup>3</sup>) at ASR1 between 1 November 2016 and 28 February 2017 during impact monitoring period. The weather conditions during the monitoring period varied from sunny to cloudy. Major land-based construction activities included: Jet Grouting, CSM Ground Treatment and Diaphragm Wall Construction (1/11/2016 – 28/2/2017) and Box Culvert Extension (1/11/2016 – 28/2/2017). *Ref:* 0212330\_Impact AQM graphs\_ February 2017\_REV a.xlsx





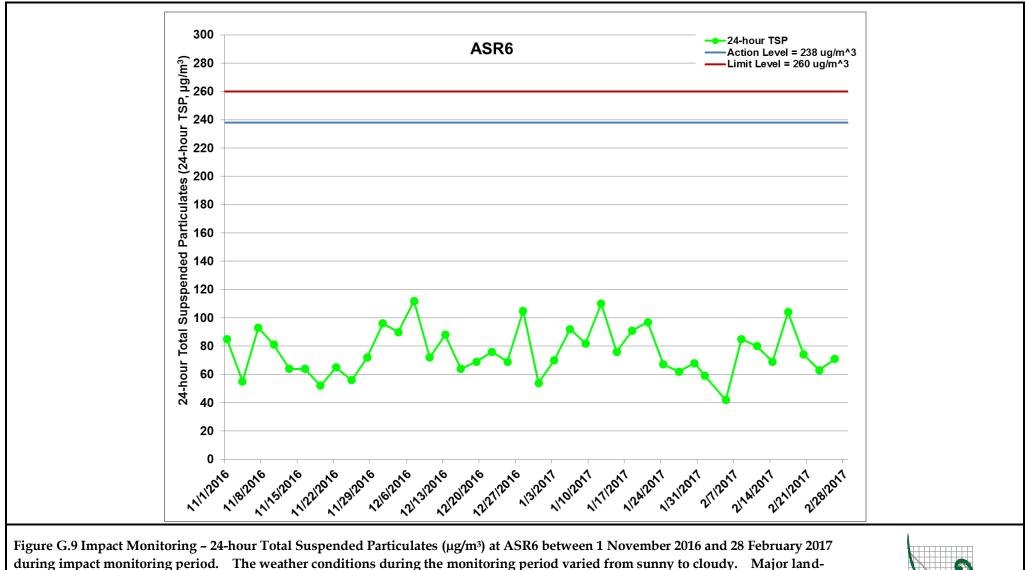
during impact monitoring period. The weather conditions during the monitoring period varied from sunny to cloudy. Major landbased construction activities included: Jet Grouting, CSM Ground Treatment and Diaphragm Wall Construction (1/11/2016 – 28/2/2017) and Box Culvert Extension (1/11/2016 – 28/2/2017). *Ref:* 0212330\_Impact AQM graphs\_February 2017\_REV a.xlsx





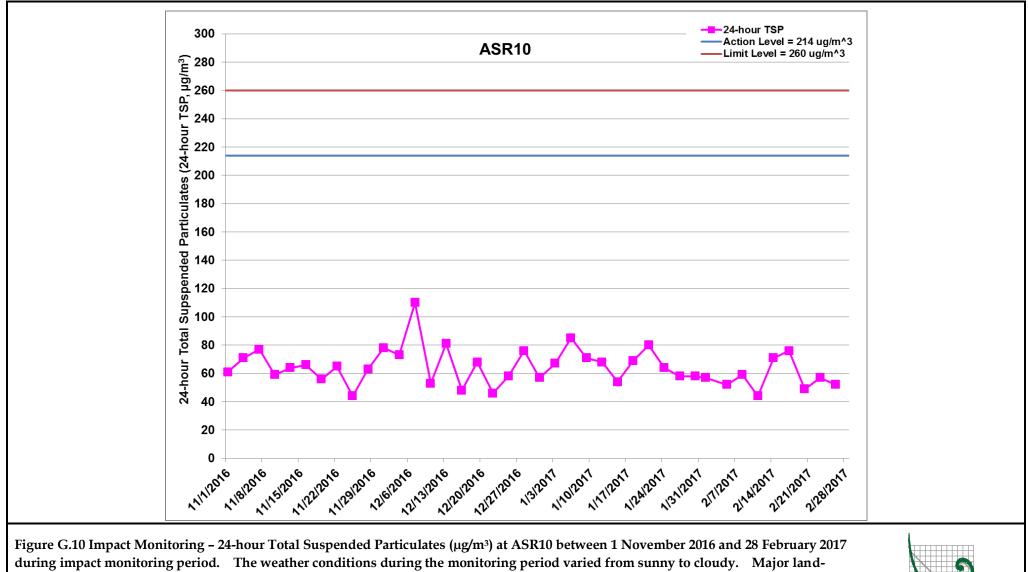
based construction activities included: Jet Grouting, CSM Ground Treatment and Diaphragm Wall Construction (1/11/2016 – 28/2/2017) and Box Culvert Extension (1/11/2016 – 28/2/2017). Ref: 0212330\_Impact AQM graphs\_February 2017\_REV a.xlsx





based construction activities included: Jet Grouting, CSM Ground Treatment and Diaphragm Wall Construction (1/11/2016 – 28/2/2017) and Box Culvert Extension (1/11/2016 – 28/2/2017). *Ref:* 0212330\_Impact AQM graphs\_February 2017\_REV a.xlsx





based construction activities included: Jet Grouting, CSM Ground Treatment and Diaphragm Wall Construction (1/11/2016 – 28/2/2017) and Box Culvert Extension (1/11/2016 – 28/2/2017). Ref: 0212330\_Impact AQM graphs\_ February 2017\_REV a.xlsx



Project	Works	Date	Station	Weather	Start time	Parameters	Results	units
TMCLKL	HY/2012/08	2017-02-02	AQMS1	Sunny	14:22	1-hour TSP	85	ug/m3
TMCLKL	HY/2012/08	2017-02-02	AQMS1	Sunny	15:24	1-hour TSP	49	ug/m3
TMCLKL	HY/2012/08	2017-02-02	AQMS1	Sunny	16:26	1-hour TSP	59	ug/m3
TMCLKL	HY/2012/08	2017-02-02	ASR1	Sunny	14:12	1-hour TSP	100	ug/m3
TMCLKL	HY/2012/08	2017-02-02	ASR1	Sunny	15:14	1-hour TSP	127	ug/m3
TMCLKL	HY/2012/08	2017-02-02	ASR1	Sunny	16:16	1-hour TSP	94	ug/m3
TMCLKL	HY/2012/08	2017-02-02	ASR10	Sunny	13:40	1-hour TSP	110	ug/m3
TMCLKL	HY/2012/08	2017-02-02	ASR10	Sunny	14:42	1-hour TSP	50	ug/m3
TMCLKL	HY/2012/08	2017-02-02	ASR10	Sunny	15:44	1-hour TSP	69	ug/m3
TMCLKL	HY/2012/08	2017-02-02	ASR5	Sunny	14:01	1-hour TSP	97	ug/m3
TMCLKL	HY/2012/08	2017-02-02	ASR5	Sunny	15:03	1-hour TSP	66	ug/m3
TMCLKL	HY/2012/08	2017-02-02	ASR5	Sunny	16:05	1-hour TSP	56	ug/m3
TMCLKL	HY/2012/08	2017-02-02	ASR6	Sunny	13:51	1-hour TSP	84	ug/m3
TMCLKL	HY/2012/08	2017-02-02	ASR6	Sunny	14:53	1-hour TSP	67	ug/m3
TMCLKL	HY/2012/08	2017-02-02	ASR6	Sunny	15:55	1-hour TSP	61	ug/m3
TMCLKL	HY/2012/08	2017-02-05	AQMS1	Sunny	09:43	1-hour TSP	81	ug/m3
TMCLKL	HY/2012/08	2017-02-05	AQMS1	Sunny	10:45	1-hour TSP	93	ug/m3
TMCLKL	HY/2012/08	2017-02-05	AQMS1	Sunny	11:47	1-hour TSP	88	ug/m3
TMCLKL	HY/2012/08	2017-02-05	ASR1	Sunny	09:32	1-hour TSP	63	ug/m3
TMCLKL	HY/2012/08	2017-02-05	ASR1	Sunny	10:34	1-hour TSP	64	ug/m3
TMCLKL	HY/2012/08	2017-02-05	ASR1	Sunny	11:36	1-hour TSP	65	ug/m3
TMCLKL	HY/2012/08	2017-02-05	ASR10	Sunny	09:00	1-hour TSP	61	ug/m3
TMCLKL	HY/2012/08	2017-02-05	ASR10	Sunny	10:02	1-hour TSP	73	ug/m3
TMCLKL	HY/2012/08	2017-02-05	ASR10	Sunny	11:04	1-hour TSP	114	ug/m3
TMCLKL	HY/2012/08	2017-02-05	ASR5	Sunny	09:20	1-hour TSP	90	ug/m3
TMCLKL	HY/2012/08	2017-02-05	ASR5	Sunny	10:22	1-hour TSP	96	ug/m3
TMCLKL	HY/2012/08	2017-02-05	ASR5	Sunny	11:24	1-hour TSP	91	ug/m3
TMCLKL	HY/2012/08	2017-02-05	ASR6	Sunny	09:10	1-hour TSP	100	ug/m3
TMCLKL	HY/2012/08	2017-02-05	ASR6	Sunny	10:12	1-hour TSP	102	ug/m3
TMCLKL	HY/2012/08	2017-02-05	ASR6	Sunny	11:14	1-hour TSP	106	ug/m3

Project	Works	Date	Station	Weather	Start time	Parameters	Results	units
TMCLKL	HY/2012/08	2017-02-08	AQMS1	Sunny	14:07	1-hour TSP	79	ug/m3
TMCLKL	HY/2012/08	2017-02-08	AQMS1	Sunny	15:09	1-hour TSP	134	ug/m3
TMCLKL	HY/2012/08	2017-02-08	AQMS1	Sunny	16:11	1-hour TSP	115	ug/m3
TMCLKL	HY/2012/08	2017-02-08	ASR1	Sunny	13:56	1-hour TSP	129	ug/m3
TMCLKL	HY/2012/08	2017-02-08	ASR1	Sunny	14:58	1-hour TSP	146	ug/m3
TMCLKL	HY/2012/08	2017-02-08	ASR1	Sunny	16:00	1-hour TSP	148	ug/m3
TMCLKL	HY/2012/08	2017-02-08	ASR10	Sunny	13:24	1-hour TSP	79	ug/m3
TMCLKL	HY/2012/08	2017-02-08	ASR10	Sunny	14:26	1-hour TSP	70	ug/m3
TMCLKL	HY/2012/08	2017-02-08	ASR10	Sunny	15:28	1-hour TSP	71	ug/m3
TMCLKL	HY/2012/08	2017-02-08	ASR5	Sunny	13:46	1-hour TSP	178	ug/m3
TMCLKL	HY/2012/08	2017-02-08	ASR5	Sunny	14:48	1-hour TSP	184	ug/m3
TMCLKL	HY/2012/08	2017-02-08	ASR5	Sunny	15:50	1-hour TSP	192	ug/m3
TMCLKL	HY/2012/08	2017-02-08	ASR6	Sunny	13:35	1-hour TSP	190	ug/m3
TMCLKL	HY/2012/08	2017-02-08	ASR6	Sunny	14:37	1-hour TSP	180	ug/m3
TMCLKL	HY/2012/08	2017-02-08	ASR6	Sunny	15:39	1-hour TSP	157	ug/m3
TMCLKL	HY/2012/08	2017-02-11	AQMS1	Sunny	09:33	1-hour TSP	71	ug/m3
TMCLKL	HY/2012/08	2017-02-11	AQMS1	Sunny	10:35	1-hour TSP	94	ug/m3
TMCLKL	HY/2012/08	2017-02-11	AQMS1	Sunny	11:37	1-hour TSP	103	ug/m3
TMCLKL	HY/2012/08	2017-02-11	ASR1	Sunny	09:22	1-hour TSP	103	ug/m3
TMCLKL	HY/2012/08	2017-02-11	ASR1	Sunny	10:24	1-hour TSP	157	ug/m3
TMCLKL	HY/2012/08	2017-02-11	ASR1	Sunny	11:26	1-hour TSP	134	ug/m3
TMCLKL	HY/2012/08	2017-02-11	ASR10	Sunny	08:50	1-hour TSP	88	ug/m3
TMCLKL	HY/2012/08	2017-02-11	ASR10	Sunny	09:52	1-hour TSP	66	ug/m3
TMCLKL	HY/2012/08	2017-02-11	ASR10	Sunny	10:54	1-hour TSP	88	ug/m3
TMCLKL	HY/2012/08	2017-02-11	ASR5	Sunny	09:11	1-hour TSP	179	ug/m3
TMCLKL	HY/2012/08	2017-02-11	ASR5	Sunny	10:13	1-hour TSP	163	ug/m3
TMCLKL	HY/2012/08	2017-02-11	ASR5	Sunny	11:15	1-hour TSP	168	ug/m3
TMCLKL	HY/2012/08	2017-02-11	ASR6	Sunny	09:00	1-hour TSP	196	ug/m3
TMCLKL	HY/2012/08	2017-02-11	ASR6	Sunny	10:02	1-hour TSP	205	ug/m3
TMCLKL	HY/2012/08	2017-02-11	ASR6	Sunny	11:04	1-hour TSP	195	ug/m3

Project	Works	Date	Station	Weather	Start time	Parameters	Results	units
TMCLKL	HY/2012/08	2017-02-14	AQMS1	Sunny	13:28	1-hour TSP	108	ug/m3
TMCLKL	HY/2012/08	2017-02-14	AQMS1	Sunny	14:30	1-hour TSP	135	ug/m3
TMCLKL	HY/2012/08	2017-02-14	AQMS1	Sunny	15:32	1-hour TSP	76	ug/m3
TMCLKL	HY/2012/08	2017-02-14	ASR1	Sunny	13:17	1-hour TSP	118	ug/m3
TMCLKL	HY/2012/08	2017-02-14	ASR1	Sunny	14:19	1-hour TSP	122	ug/m3
TMCLKL	HY/2012/08	2017-02-14	ASR1	Sunny	15:21	1-hour TSP	91	ug/m3
TMCLKL	HY/2012/08	2017-02-14	ASR10	Sunny	12:44	1-hour TSP	142	ug/m3
TMCLKL	HY/2012/08	2017-02-14	ASR10	Sunny	13:46	1-hour TSP	121	ug/m3
TMCLKL	HY/2012/08	2017-02-14	ASR10	Sunny	14:48	1-hour TSP	92	ug/m3
TMCLKL	HY/2012/08	2017-02-14	ASR5	Sunny	13:07	1-hour TSP	172	ug/m3
TMCLKL	HY/2012/08	2017-02-14	ASR5	Sunny	14:09	1-hour TSP	167	ug/m3
TMCLKL	HY/2012/08	2017-02-14	ASR5	Sunny	15:11	1-hour TSP	140	ug/m3
TMCLKL	HY/2012/08	2017-02-14	ASR6	Sunny	12:55	1-hour TSP	96	ug/m3
TMCLKL	HY/2012/08	2017-02-14	ASR6	Sunny	13:57	1-hour TSP	115	ug/m3
TMCLKL	HY/2012/08	2017-02-14	ASR6	Sunny	14:59	1-hour TSP	127	ug/m3
TMCLKL	HY/2012/08	2017-02-17	AQMS1	Sunny	10:23	1-hour TSP	161	ug/m3
TMCLKL	HY/2012/08	2017-02-17	AQMS1	Sunny	11:25	1-hour TSP	126	ug/m3
TMCLKL	HY/2012/08	2017-02-17	AQMS1	Sunny	12:27	1-hour TSP	158	ug/m3
TMCLKL	HY/2012/08	2017-02-17	ASR1	Sunny	10:13	1-hour TSP	147	ug/m3
TMCLKL	HY/2012/08	2017-02-17	ASR1	Sunny	11:15	1-hour TSP	132	ug/m3
TMCLKL	HY/2012/08	2017-02-17	ASR1	Sunny	12:17	1-hour TSP	134	ug/m3
TMCLKL	HY/2012/08	2017-02-17	ASR10	Sunny	09:40	1-hour TSP	75	ug/m3
TMCLKL	HY/2012/08	2017-02-17	ASR10	Sunny	10:42	1-hour TSP	99	ug/m3
TMCLKL	HY/2012/08	2017-02-17	ASR10	Sunny	11:44	1-hour TSP	140	ug/m3
TMCLKL	HY/2012/08	2017-02-17	ASR5	Sunny	10:02	1-hour TSP	165	ug/m3
TMCLKL	HY/2012/08	2017-02-17	ASR5	Sunny	11:04	1-hour TSP	165	ug/m3
TMCLKL	HY/2012/08	2017-02-17	ASR5	Sunny	12:06	1-hour TSP	152	ug/m3
TMCLKL	HY/2012/08	2017-02-17	ASR6	Sunny	09:50	1-hour TSP	159	ug/m3
TMCLKL	HY/2012/08	2017-02-17	ASR6	Sunny	10:52	1-hour TSP	188	ug/m3
TMCLKL	HY/2012/08	2017-02-17	ASR6	Sunny	11:54	1-hour TSP	171	ug/m3

Project	Works	Date	Station	Weather	Start time	Parameters	Results	units
TMCLKL	HY/2012/08	2017-02-20	AQMS1	Sunny	14:10	1-hour TSP	100	ug/m3
TMCLKL	HY/2012/08	2017-02-20	AQMS1	Sunny	15:12	1-hour TSP	104	ug/m3
TMCLKL	HY/2012/08	2017-02-20	AQMS1	Sunny	16:14	1-hour TSP	63	ug/m3
TMCLKL	HY/2012/08	2017-02-20	ASR1	Sunny	13:59	1-hour TSP	151	ug/m3
TMCLKL	HY/2012/08	2017-02-20	ASR1	Sunny	15:01	1-hour TSP	128	ug/m3
TMCLKL	HY/2012/08	2017-02-20	ASR1	Sunny	16:03	1-hour TSP	179	ug/m3
TMCLKL	HY/2012/08	2017-02-20	ASR10	Sunny	13:27	1-hour TSP	95	ug/m3
TMCLKL	HY/2012/08	2017-02-20	ASR10	Sunny	14:29	1-hour TSP	57	ug/m3
TMCLKL	HY/2012/08	2017-02-20	ASR10	Sunny	15:31	1-hour TSP	73	ug/m3
TMCLKL	HY/2012/08	2017-02-20	ASR5	Sunny	13:49	1-hour TSP	180	ug/m3
TMCLKL	HY/2012/08	2017-02-20	ASR5	Sunny	14:51	1-hour TSP	165	ug/m3
TMCLKL	HY/2012/08	2017-02-20	ASR5	Sunny	15:53	1-hour TSP	201	ug/m3
TMCLKL	HY/2012/08	2017-02-20	ASR6	Sunny	13:38	1-hour TSP	161	ug/m3
TMCLKL	HY/2012/08	2017-02-20	ASR6	Sunny	14:40	1-hour TSP	112	ug/m3
TMCLKL	HY/2012/08	2017-02-20	ASR6	Sunny	15:42	1-hour TSP	122	ug/m3
TMCLKL	HY/2012/08	2017-02-23	AQMS1	Cloudy	13:43	1-hour TSP	78	ug/m3
TMCLKL	HY/2012/08	2017-02-23	AQMS1	Cloudy	14:45	1-hour TSP	53	ug/m3
TMCLKL	HY/2012/08	2017-02-23	AQMS1	Cloudy	15:47	1-hour TSP	81	ug/m3
TMCLKL	HY/2012/08	2017-02-23	ASR1	Cloudy	13:32	1-hour TSP	133	ug/m3
TMCLKL	HY/2012/08	2017-02-23	ASR1	Cloudy	14:34	1-hour TSP	177	ug/m3
TMCLKL	HY/2012/08	2017-02-23	ASR1	Cloudy	15:36	1-hour TSP	169	ug/m3
TMCLKL	HY/2012/08	2017-02-23	ASR10	Cloudy	13:00	1-hour TSP	107	ug/m3
TMCLKL	HY/2012/08	2017-02-23	ASR10	Cloudy	14:02	1-hour TSP	94	ug/m3
TMCLKL	HY/2012/08	2017-02-23	ASR10	Cloudy	15:04	1-hour TSP	93	ug/m3
TMCLKL	HY/2012/08	2017-02-23	ASR5	Cloudy	13:22	1-hour TSP	178	ug/m3
TMCLKL	HY/2012/08	2017-02-23	ASR5	Cloudy	14:24	1-hour TSP	158	ug/m3
TMCLKL	HY/2012/08	2017-02-23	ASR5	Cloudy	15:26	1-hour TSP	202	ug/m3
TMCLKL	HY/2012/08	2017-02-23	ASR6	Cloudy	13:11	1-hour TSP	131	ug/m3
TMCLKL	HY/2012/08	2017-02-23	ASR6	Cloudy	14:13	1-hour TSP	123	ug/m3
TMCLKL	HY/2012/08	2017-02-23	ASR6	Cloudy	15:15	1-hour TSP	129	ug/m3

Project	Works	Date	Station	Weather	Start time	Parameters	Results	units
TMCLKL	HY/2012/08	2017-02-26	AQMS1	Cloudy	09:59	1-hour TSP	67	ug/m3
TMCLKL	HY/2012/08	2017-02-26	AQMS1	Cloudy	11:01	1-hour TSP	82	ug/m3
TMCLKL	HY/2012/08	2017-02-26	AQMS1	Cloudy	12:03	1-hour TSP	108	ug/m3
TMCLKL	HY/2012/08	2017-02-26	ASR1	Cloudy	09:48	1-hour TSP	114	ug/m3
TMCLKL	HY/2012/08	2017-02-26	ASR1	Cloudy	10:50	1-hour TSP	128	ug/m3
TMCLKL	HY/2012/08	2017-02-26	ASR1	Cloudy	11:52	1-hour TSP	106	ug/m3
TMCLKL	HY/2012/08	2017-02-26	ASR10	Cloudy	09:16	1-hour TSP	69	ug/m3
TMCLKL	HY/2012/08	2017-02-26	ASR10	Cloudy	10:18	1-hour TSP	42	ug/m3
TMCLKL	HY/2012/08	2017-02-26	ASR10	Cloudy	11:20	1-hour TSP	53	ug/m3
TMCLKL	HY/2012/08	2017-02-26	ASR5	Cloudy	09:37	1-hour TSP	138	ug/m3
TMCLKL	HY/2012/08	2017-02-26	ASR5	Cloudy	10:39	1-hour TSP	149	ug/m3
TMCLKL	HY/2012/08	2017-02-26	ASR5	Cloudy	11:41	1-hour TSP	118	ug/m3
TMCLKL	HY/2012/08	2017-02-26	ASR6	Cloudy	09:26	1-hour TSP	110	ug/m3
TMCLKL	HY/2012/08	2017-02-26	ASR6	Cloudy	10:28	1-hour TSP	173	ug/m3
TMCLKL	HY/2012/08	2017-02-26	ASR6	Cloudy	11:30	1-hour TSP	119	ug/m3
TMCLKL	HY/2012/08	2017-02-02	AQMS1	Sunny	17:28	24-hour TSP	68	ug/m3
TMCLKL	HY/2012/08	2017-02-02	ASR1	Sunny	17:18	24-hour TSP	69	ug/m3
TMCLKL	HY/2012/08	2017-02-02	ASR10	Sunny	16:46	24-hour TSP	57	ug/m3
TMCLKL	HY/2012/08	2017-02-02	ASR5	Sunny	17:07	24-hour TSP	63	ug/m3
TMCLKL	HY/2012/08	2017-02-02	ASR6	Sunny	16:57	24-hour TSP	59	ug/m3
TMCLKL	HY/2012/08	2017-02-05	AQMS1	Sunny	12:49	24-hour TSP	59	ug/m3
TMCLKL	HY/2012/08	2017-02-05	ASR1	Sunny	12:38	24-hour TSP	44	ug/m3
TMCLKL	HY/2012/08	2017-02-05	ASR10	Sunny	12:06	24-hour TSP	52	ug/m3
TMCLKL	HY/2012/08	2017-02-05	ASR5	Sunny	12:26	24-hour TSP	48	ug/m3
TMCLKL	HY/2012/08	2017-02-05	ASR6	Sunny	12:16	24-hour TSP	42	ug/m3
TMCLKL	HY/2012/08	2017-02-08	AQMS1	Sunny	17:13	24-hour TSP	81	ug/m3
TMCLKL	HY/2012/08	2017-02-08	ASR1	Sunny	17:02	24-hour TSP	70	ug/m3
TMCLKL	HY/2012/08	2017-02-08	ASR10	Sunny	16:30	24-hour TSP	59	ug/m3
TMCLKL	HY/2012/08	2017-02-08	ASR5	Sunny	16:52	24-hour TSP	100	ug/m3
TMCLKL	HY/2012/08	2017-02-08	ASR6	Sunny	16:41	24-hour TSP	85	ug/m3

Project	Works	Date	Station	Weather	Start time	Parameters	Results	units
TMCLKL	HY/2012/08	2017-02-11	AQMS1	Sunny	12:39	24-hour TSP	50	ug/m3
TMCLKL	HY/2012/08	2017-02-11	ASR1	Sunny	12:28	24-hour TSP	73	ug/m3
TMCLKL	HY/2012/08	2017-02-11	ASR10	Sunny	11:56	24-hour TSP	44	ug/m3
TMCLKL	HY/2012/08	2017-02-11	ASR5	Sunny	12:17	24-hour TSP	79	ug/m3
TMCLKL	HY/2012/08	2017-02-11	ASR6	Sunny	12:06	24-hour TSP	80	ug/m3
TMCLKL	HY/2012/08	2017-02-14	AQMS1	Sunny	11:34	24-hour TSP	72	ug/m3
TMCLKL	HY/2012/08	2017-02-14	ASR1	Sunny	16:23	24-hour TSP	62	ug/m3
TMCLKL	HY/2012/08	2017-02-14	ASR10	Sunny	15:50	24-hour TSP	71	ug/m3
TMCLKL	HY/2012/08	2017-02-14	ASR5	Sunny	16:13	24-hour TSP	80	ug/m3
TMCLKL	HY/2012/08	2017-02-14	ASR6	Sunny	16:01	24-hour TSP	69	ug/m3
TMCLKL	HY/2012/08	2017-02-17	AQMS1	Sunny	13:29	24-hour TSP	88	ug/m3
TMCLKL	HY/2012/08	2017-02-17	ASR1	Sunny	13:19	24-hour TSP	77	ug/m3
TMCLKL	HY/2012/08	2017-02-17	ASR10	Sunny	12:46	24-hour TSP	76	ug/m3
TMCLKL	HY/2012/08	2017-02-17	ASR5	Sunny	13:08	24-hour TSP	81	ug/m3
TMCLKL	HY/2012/08	2017-02-17	ASR6	Sunny	12:56	24-hour TSP	104	ug/m3
TMCLKL	HY/2012/08	2017-02-20	AQMS1	Sunny	17:16	24-hour TSP	75	ug/m3
TMCLKL	HY/2012/08	2017-02-20	ASR1	Sunny	17:05	24-hour TSP	78	ug/m3
TMCLKL	HY/2012/08	2017-02-20	ASR10	Sunny	16:33	24-hour TSP	49	ug/m3
TMCLKL	HY/2012/08	2017-02-20	ASR5	Sunny	16:55	24-hour TSP	85	ug/m3
TMCLKL	HY/2012/08	2017-02-20	ASR6	Sunny	16:44	24-hour TSP	74	ug/m3
TMCLKL	HY/2012/08	2017-02-23	AQMS1	Cloudy	16:49	24-hour TSP	63	ug/m3
TMCLKL	HY/2012/08	2017-02-23	ASR1	Cloudy	16:38	24-hour TSP	93	ug/m3
TMCLKL	HY/2012/08	2017-02-23	ASR10	Cloudy	16:06	24-hour TSP	57	ug/m3
TMCLKL	HY/2012/08	2017-02-23	ASR5	Cloudy	16:28	24-hour TSP	91	ug/m3
TMCLKL	HY/2012/08	2017-02-23	ASR6	Cloudy	16:17	24-hour TSP	63	ug/m3
TMCLKL	HY/2012/08	2017-02-26	AQMS1	Cloudy	13:05	24-hour TSP	62	ug/m3
TMCLKL	HY/2012/08	2017-02-26	ASR1	Cloudy	12:54	24-hour TSP	60	ug/m3
TMCLKL	HY/2012/08	2017-02-26	ASR10	Cloudy	12:22	24-hour TSP	52	ug/m3
TMCLKL	HY/2012/08	2017-02-26	ASR5	Cloudy	12:43	24-hour TSP	84	ug/m3
TMCLKL	HY/2012/08	2017-02-26	ASR6	Cloudy	12:32	24-hour TSP	71	ug/m3

Appendix H

## Meteorological Data

		ological Data for Impact Monitoring in	
Date (yy-mm-dd)	Time (24hrs)	Average of Wind Speed (m/s)	Average of Wind Direction(degree)
2/2/2017		4	46
2/2/2017		3.6	42
2/2/2017		4.5	92
2/2/2017		3.6	115
2/2/2017	Ĩ	3.6	123
2/2/2017		4	104
2/2/2017	6:00	4	106
2/2/2017		5.8	132
2/2/2017	8:00	5.4	141
2/2/2017	9:00	5.8	152
2/2/2017	10:00	6.3	113
2/2/2017	11:00	6.7	106
2/2/2017	12:00	6.3	95
2/2/2017	13:00	7.2	86
2/2/2017	14:00	8	102
2/2/2017	15:00	8	94
2/2/2017		8	82
2/2/2017	1	8	93
2/2/2017		8	97
2/2/2017		6.7	87
2/2/2017		5.8	88
2/2/2017		7.6	93
2/2/2017	1	6.3	84
2/2/2017	1	2.7	11
3/2/2017		4	95
3/2/2017		3.6	71
3/2/2017		4.5	13
3/2/2017			52
		3.6	
3/2/2017		4	164
3/2/2017		4.9	10
3/2/2017		4.9	63
3/2/2017		4.9	64
3/2/2017		3.1	227
3/2/2017		3.6	219
3/2/2017		3.1	93
3/2/2017		3.1	115
3/2/2017	1	2.7	116
3/2/2017	13:00	3.6	109
3/2/2017		4	84
3/2/2017		4.9	82
3/2/2017		3.1	88
3/2/2017		5.4	96
3/2/2017	18:00	5.4	97
3/2/2017	19:00	4.9	100
3/2/2017	20:00	4	94
3/2/2017	21:00	3.6	91
3/2/2017	22:00	3.6	81
3/2/2017	23:00	4	80
5/2/2017		4	79
5/2/2017		3.6	85
5/2/2017		4.9	287
5/2/2017		5.8	291
5/2/2017		5.8	274
5/2/2017		4.5	286
	6:00	4.5	288

		ological Data for Impact Monitoring in	
	Time (24hrs)	Average of Wind Speed (m/s)	Average of Wind Direction(degree)
5/2/2017		4	284
5/2/2017		3.6	225
5/2/2017		2.2	226
5/2/2017	10:00	1.3	346
5/2/2017	11:00	1.8	351
5/2/2017	12:00	1.8	339
5/2/2017	13:00	1.3	342
5/2/2017	14:00	3.6	50
5/2/2017	15:00	4	93
5/2/2017	16:00	7.2	105
5/2/2017	17:00	7.2	121
5/2/2017	18:00	5.8	96
5/2/2017	19:00	5.8	100
5/2/2017	20:00	4.9	84
5/2/2017	21:00	4.5	8
5/2/2017		3.6	83
5/2/2017		3.6	96
6/2/2017		3.6	99
6/2/2017		3.6	116
6/2/2017		3.6	121
6/2/2017		5.4	131
6/2/2017		6.7	119
6/2/2017		5.4	125
6/2/2017		6.7	116
6/2/2017		6.7	130
		8	
6/2/2017			134
6/2/2017		8.5	141
6/2/2017		8.5	107
6/2/2017		8.9	102
6/2/2017		8.9	95
6/2/2017		8.9	84
6/2/2017		8	83
6/2/2017		7.6	95
6/2/2017		8	88
6/2/2017		7.6	81
6/2/2017		7.6	86
6/2/2017	19:00	8.9	94
6/2/2017	20:00	8	96
6/2/2017	21:00	8.9	102
6/2/2017	22:00	8.5	104
6/2/2017	23:00	9.4	97
8/2/2017	0:00	4.9	127
8/2/2017	1:00	8.9	104
8/2/2017	2:00	6.3	95
8/2/2017	3:00	5.4	132
8/2/2017	4:00	5.4	111
8/2/2017	5:00	3.1	164
8/2/2017		4	221
8/2/2017		4	300
8/2/2017		4.5	305
8/2/2017		4.5	348
8/2/2017		6.3	341
8/2/2017		6.7	339
0/2/201/			
8/2/2017	12.00	8.9	346

		ological Data for Impact Monitoring in	
	Time (24hrs)	Average of Wind Speed (m/s)	Average of Wind Direction(degree)
8/2/2017		8	351
8/2/2017		6.3	356
8/2/2017		4.9	347
8/2/2017		4.9	352
8/2/2017	18:00	5.8	344
8/2/2017	19:00	6.3	352
8/2/2017	20:00	7.2	5
8/2/2017	21:00	6.7	347
8/2/2017	22:00	5.8	2
8/2/2017	23:00	7.2	52
9/2/2017	0:00	5.4	11
9/2/2017	1:00	4.5	284
9/2/2017	2:00	7.2	355
9/2/2017		6.7	356
9/2/2017		8.5	347
9/2/2017		9.4	350
9/2/2017		8.9	341
9/2/2017		8.5	295
9/2/2017		8.9	284
9/2/2017		8.9	351
9/2/2017		7.6	316
9/2/2017		7.2	322
		7.2	
9/2/2017			343
9/2/2017		4.9	5
9/2/2017		8	16
9/2/2017		9.8	46
9/2/2017		8.9	51
9/2/2017		8.9	50
9/2/2017		8.9	64
9/2/2017		8.9	58
9/2/2017		8	51
9/2/2017		7.2	64
9/2/2017	22:00	7.2	52
9/2/2017	23:00	8.5	67
11/2/2017	0:00	7.6	55
11/2/2017	1:00	7.6	37
11/2/2017	2:00	7.6	49
11/2/2017	3:00	7.2	51
11/2/2017	4:00	6.3	62
11/2/2017	5:00	5.4	55
11/2/2017	6:00	4	128
11/2/2017	7:00	5.4	254
11/2/2017		4	261
11/2/2017		4.9	331
11/2/2017		3.6	274
11/2/2017		3.1	225
11/2/2017		3.1	263
11/2/2017		2.7	304
11/2/2017		3.1	55
11/2/2017		3.6	93
11/2/2017		3.1	64
11/2/2017		2.7	62
11/2/2017		2.7	66
11/2/2017		2.7	51
11/2/2017	20:00	1.8	57

		ological Data for Impact Monitoring in	
Date (yy-mm-dd)	Time (24hrs)	Average of Wind Speed (m/s)	Average of Wind Direction(degree)
11/2/2017		1.8	46
11/2/2017		1.8	48
11/2/2017		1.8	50
12/2/2017		3.6	51
12/2/2017	1:00	3.6	58
12/2/2017	2:00	6.3	67
12/2/2017	3:00	5.8	61
12/2/2017	4:00	6.7	44
12/2/2017	5:00	6.7	13
12/2/2017	6:00	4.5	64
12/2/2017	7:00	6.3	254
12/2/2017	8:00	4.5	344
12/2/2017	1	4.9	351
12/2/2017	1	4.5	289
12/2/2017	1	6.3	225
12/2/2017		4	221
12/2/2017		4.9	133
12/2/2017	1	3.6	103
12/2/2017		2.7	77
12/2/2017		4	92
12/2/2017		3.6	49
12/2/2017		3.1	50
12/2/2017			
12/2/2017		4.5 4.5	44 38
12/2/2017		4	60
12/2/2017		3.6	59
12/2/2017		3.1	85
14/2/2017		2.7	51
14/2/2017	1	2.7	93
14/2/2017		2.7	61
14/2/2017	1	2.2	84
14/2/2017		3.6	110
14/2/2017	5:00	4.9	132
14/2/2017	6:00	4.9	128
14/2/2017	7:00	4.9	126
14/2/2017	8:00	4.9	137
14/2/2017	9:00	4.9	122
14/2/2017	10:00	6.3	222
14/2/2017	11:00	5.4	206
14/2/2017	12:00	4.5	231
14/2/2017	13:00	6.7	113
14/2/2017	1	7.6	124
14/2/2017	1	6.3	93
14/2/2017		4.9	71
14/2/2017	1	4.9	93
14/2/2017	1	6.3	100
14/2/2017	1	6.7	101
14/2/2017		7.2	84
14/2/2017	1	7.2	82
14/2/2017		6.3	79
14/2/2017		7.6	69
15/2/2017		7.2	81
15/2/2017		7.2	85
15/2/2017	Ī	7.2	115
15/2/2017	3:00	8	123

	Meteor	ological Data for Impact Monitoring in	n the reporting period
Date (yy-mm-dd)	Time (24hrs)	Average of Wind Speed (m/s)	Average of Wind Direction(degree)
15/2/2017	4:00	8.5	116
15/2/2017	5:00	6.7	131
15/2/2017	6:00	8	127
15/2/2017	7:00	5.4	115
15/2/2017	8:00	7.2	106
15/2/2017	9:00	5.4	109
15/2/2017	1	5.4	114
15/2/2017		5.8	112
15/2/2017		4.9	93
15/2/2017		4.9	87
15/2/2017		4.5	103
15/2/2017		4	84
15/2/2017		4	81
15/2/2017		3.6	86
15/2/2017		3.1	71
15/2/2017		3.6	65
15/2/2017		3.6	64
15/2/2017		3.1	68
15/2/2017	22:00	3.6	93
15/2/2017		3.1	100
17/2/2017	0:00	2.7	104
17/2/2017	1:00	1.3	112
17/2/2017	2:00	1.3	14
17/2/2017	3:00	0.5	13
17/2/2017	4:00	1.8	88
17/2/2017	5:00	4.5	93
17/2/2017	6:00	4	115
17/2/2017	7:00	3.1	221
17/2/2017		4.5	205
17/2/2017	9:00	4.5	254
17/2/2017	10:00	6.3	221
17/2/2017	11:00	5.4	203
17/2/2017	12:00	5.4	215
17/2/2017	13:00	4	220
17/2/2017		4	64
17/2/2017		4	75
17/2/2017	Ĩ	3.1	82
17/2/2017		2.7	91
17/2/2017		1.8	74
17/2/2017		1.3	65
17/2/2017		1.1	66
17/2/2017		1.8	64
17/2/2017	1	1.8	59
17/2/2017		0.9	63
18/2/2017		1.3	12
18/2/2017		1.3	5
18/2/2017		1.3	2
18/2/2017	1	2.2	354
18/2/2017		1.8	185
18/2/2017		2.2	179
18/2/2017		4	223
18/2/2017	1	4.9	223
<u> </u>	1	4	85
18/2/2017	9:00	4.5	93
18/2/2017	10.00	4.9	100

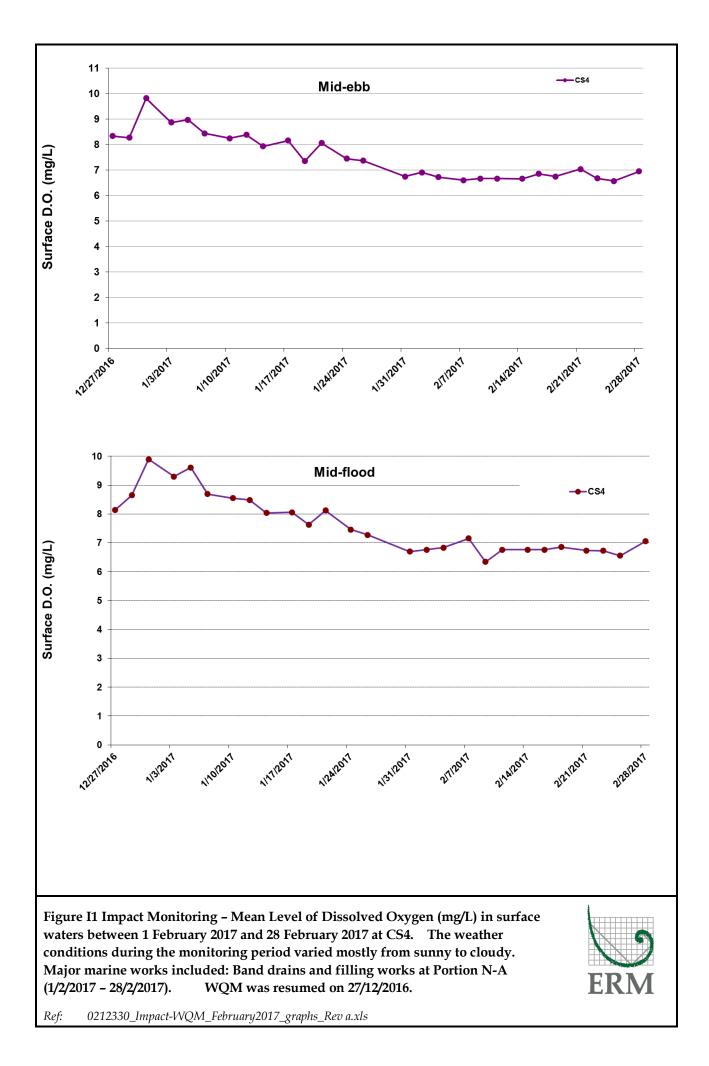
	Meteore	ological Data for Impact Monitoring in	n the reporting period
Date (yy-mm-dd)	Time (24hrs)	Average of Wind Speed (m/s)	Average of Wind Direction(degree)
18/2/2017	12:00	4.9	67
18/2/2017	13:00	4.5	94
18/2/2017	14:00	4.9	88
18/2/2017	15:00	4.9	102
18/2/2017	16:00	5.4	110
18/2/2017	17:00	4.9	92
18/2/2017	18:00	4	91
18/2/2017	19:00	5.4	105
18/2/2017	20:00	7.6	107
18/2/2017	21:00	7.6	111
18/2/2017	22:00	8.5	95
18/2/2017	23:00	5.8	97
20/2/2017	0:00	5.8	85
20/2/2017	1:00	7.2	88
20/2/2017	2:00	7.2	102
20/2/2017	3:00	7.6	94
20/2/2017	4:00	6.7	99
20/2/2017	5:00	3.1	107
20/2/2017	6:00	2.7	164
20/2/2017		3.6	225
20/2/2017		2.2	231
20/2/2017		3.6	124
20/2/2017		4.5	225
20/2/2017		5.4	231
20/2/2017		5.4	241
20/2/2017		4	236
20/2/2017		2.7	237
20/2/2017	1	1.8	95
20/2/2017		3.6	70
20/2/2017		4.9	92
20/2/2017		4.5	85
20/2/2017		3.6	87
20/2/2017		4	96
20/2/2017		4	98
20/2/2017		4	81
20/2/2017		4.9	102
21/2/2017		5.4	92
21/2/2017		5.4	84
21/2/2017		4.9	99
21/2/2017	1	5.8	94
21/2/2017	Ĩ	6.3	115
21/2/2017		7.6	113
21/2/2017	1	9.4	94
21/2/2017		8	85
21/2/2017		8	100
21/2/2017	1	8.5	114
21/2/2017 21/2/2017		8.5	92
21/2/2017 21/2/2017		8.5	115
		11.2	
21/2/2017		11.6	114
21/2/2017		8.9	121
21/2/2017		6.7	115
21/2/2017		7.6	95
21/2/2017		6.7	100
21/2/2017		7.2	84
21/2/2017		6.3	88
21/2/2017	20:00	6.3	104

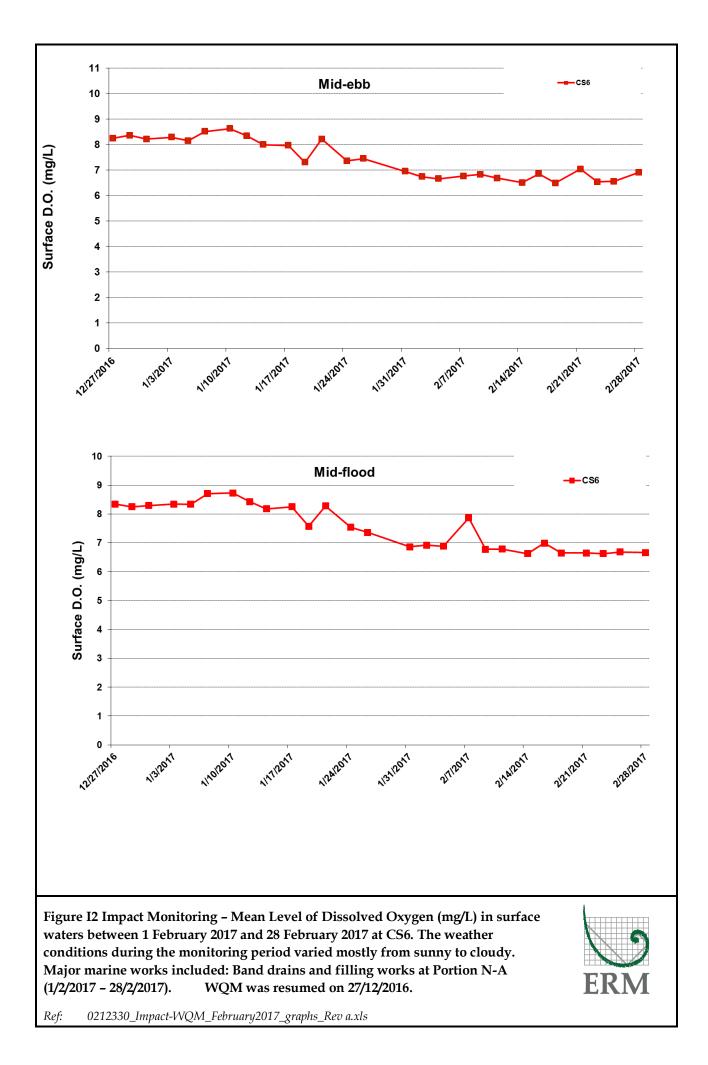
		ological Data for Impact Monitoring in	
Date (yy-mm-dd)	Time (24hrs)	Average of Wind Speed (m/s)	Average of Wind Direction(degree)
21/2/2017	21:00	3.6	87
21/2/2017	22:00	3.6	96
21/2/2017	23:00	3.6	82
23/2/2017	0:00	5.4	91
23/2/2017	1:00	5.8	174
23/2/2017	2:00	4.9	93
23/2/2017	3:00	5.8	100
23/2/2017		6.3	101
23/2/2017		4	87
23/2/2017		4	79
23/2/2017		6.3	301
23/2/2017		6.3	311
23/2/2017		6.7	298
23/2/2017		5.4	304
23/2/2017		5.8	285
		4.9	
23/2/2017			301
23/2/2017		6.3	311
23/2/2017		5.8	298
23/2/2017		6.3	299
23/2/2017		6.3	344
23/2/2017		4.9	351
23/2/2017		4.5	312
23/2/2017		6.7	305
23/2/2017	20:00	8	18
23/2/2017	21:00	7.6	354
23/2/2017	22:00	7.2	21
23/2/2017	23:00	7.2	25
24/2/2017	0:00	7.2	17
24/2/2017	1:00	8	5
24/2/2017		4.9	354
24/2/2017	3:00	4.5	2
24/2/2017		4.9	12
24/2/2017		6.3	46
24/2/2017		5.8	51
24/2/2017		6.7	42
24/2/2017		5.8	344
24/2/2017		5.8	15
24/2/2017		5.4	352
24/2/2017		6.7	344
24/2/2017		7.2	351
24/2/2017		6.3	302
24/2/2017		5.8	296
24/2/2017		8.5	355
24/2/2017		7.2	41
24/2/2017		6.3	43
24/2/2017		4.9	290
24/2/2017	19:00	4.5	261
24/2/2017	20:00	5.4	10
24/2/2017	21:00	4.5	357
24/2/2017	22:00	5.4	50
24/2/2017		5.8	44
26/2/2017		5.8	348
26/2/2017		5.8	350
26/2/2017		5.4	95
26/2/2017		5.8	47
26/2/2017		4.9	50
	4:00 5:00	5.4	12

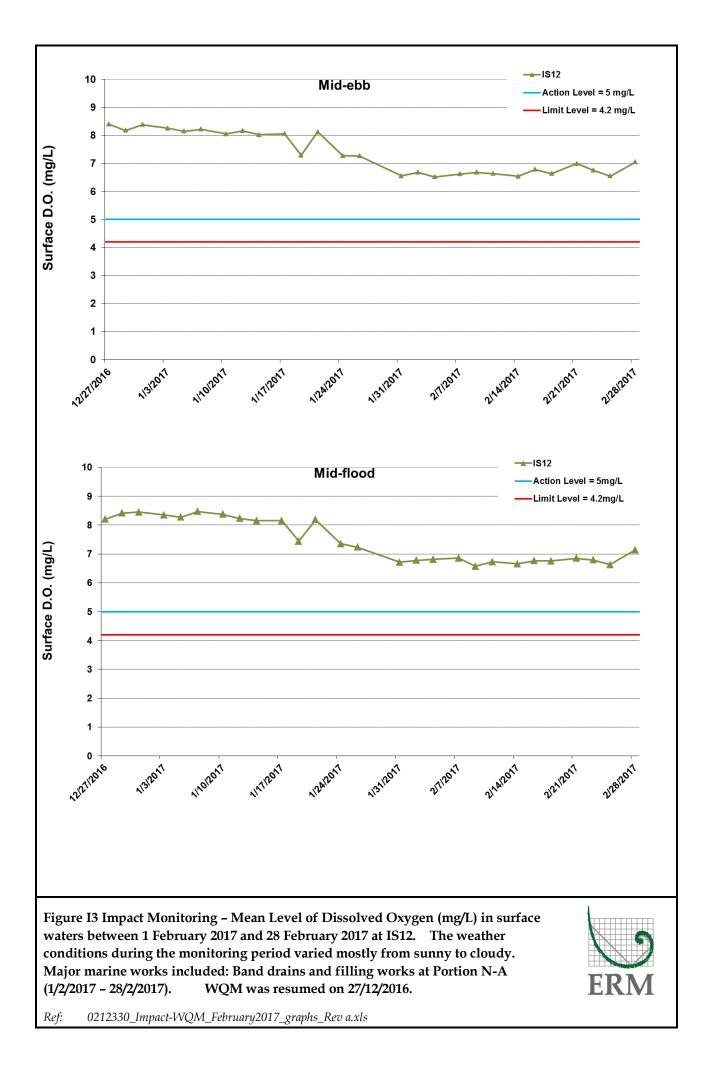
Meteorological Data for Impact Monitoring in the reporting period				
Date (yy-mm-dd)	Time (24hrs)	Average of Wind Speed (m/s)	Average of Wind Direction(degree)	
26/2/2017	6:00	6.7	63	
26/2/2017	7:00	5.4	48	
26/2/2017	8:00	4	57	
26/2/2017	9:00	4	321	
26/2/2017	10:00	3.6	316	
26/2/2017	11:00	6.3	44	
26/2/2017	12:00	5.4	10	
26/2/2017	13:00	4.9	48	
26/2/2017	14:00	4.5	49	
26/2/2017	15:00	4.9	50	
26/2/2017	16:00	4	225	
26/2/2017	17:00	2.7	238	
26/2/2017	18:00	1.8	273	
26/2/2017		1.3	281	
26/2/2017		0.4	269	
26/2/2017		0.9	204	
26/2/2017		0.9	171	
26/2/2017		1.8	169	
27/2/2017		0.9	274	
27/2/2017		1.3	265	
27/2/2017		1.3	281	
27/2/2017		2.7	93	
27/2/2017		1.3	87	
27/2/2017		0.9	349	
27/2/2017		2.7	70	
27/2/2017		1.8	52	
27/2/2017		4	2	
27/2/2017		3.6	51	
27/2/2017		2.7	48	
27/2/2017		3.6	42	
27/2/2017		7.6	117	
27/2/2017		7.6	125	
27/2/2017		7.2	109	
27/2/2017		7.6	135	
27/2/2017		8	141	
27/2/2017		6.7	136	
27/2/2017		7.2	128	
27/2/2017		4	116	
27/2/2017		5.4	114	
27/2/2017		4.5	95	
27/2/2017		4.5	84	
27/2/2017		6.7	87	

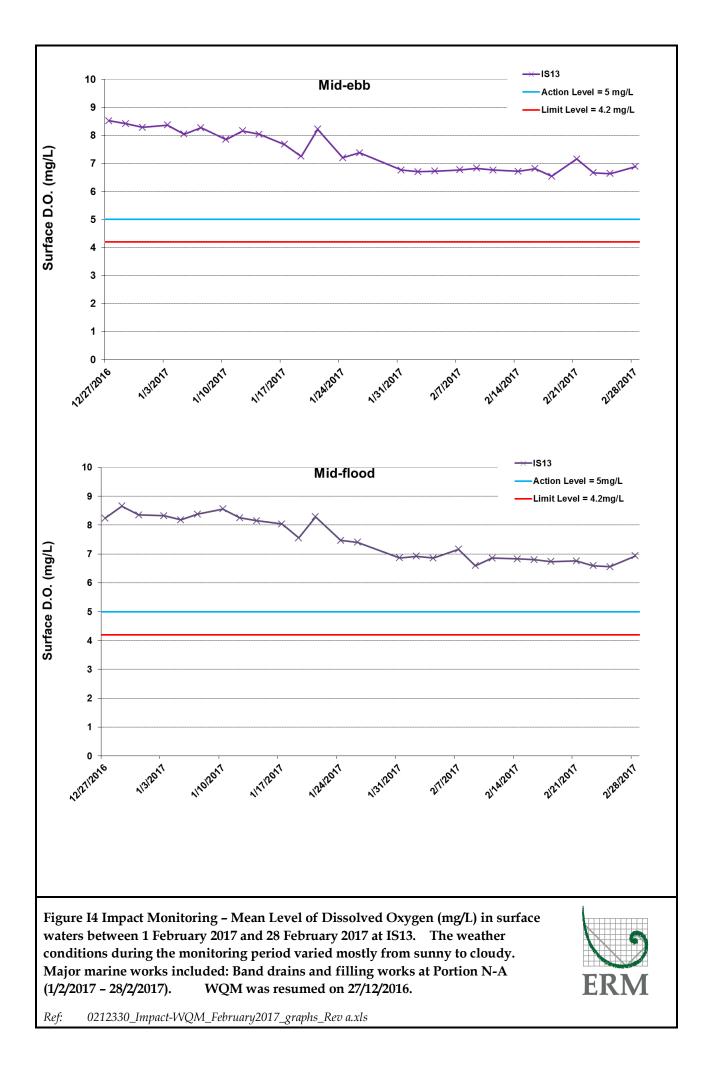
Appendix I

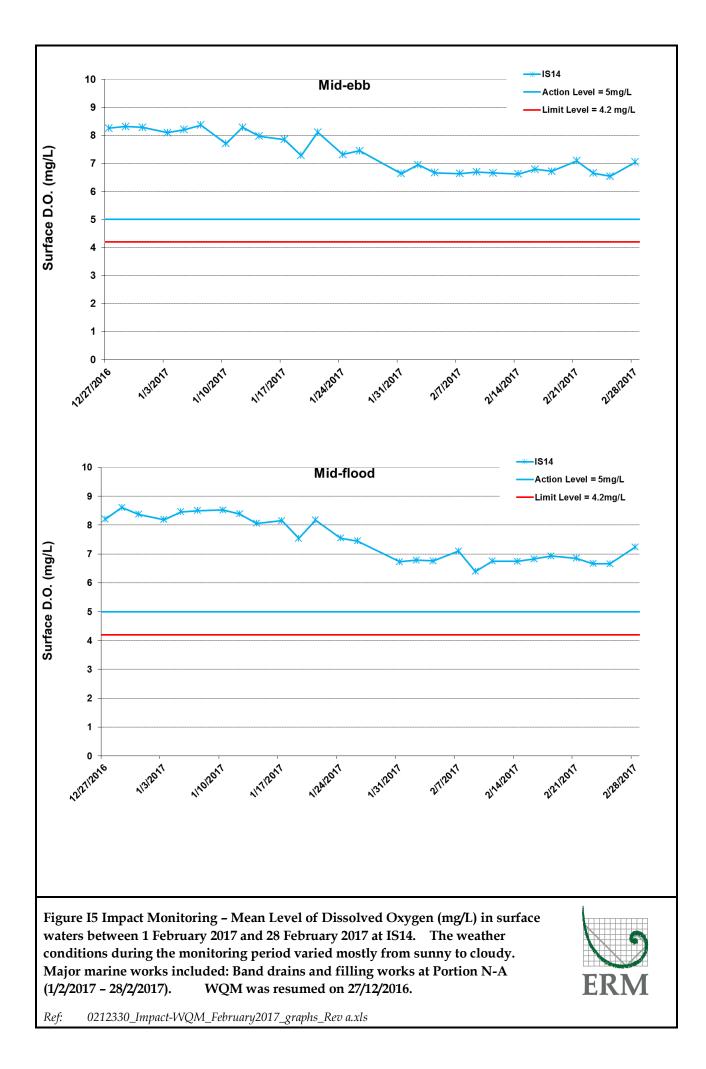
## Impact Water Quality Monitoring Results

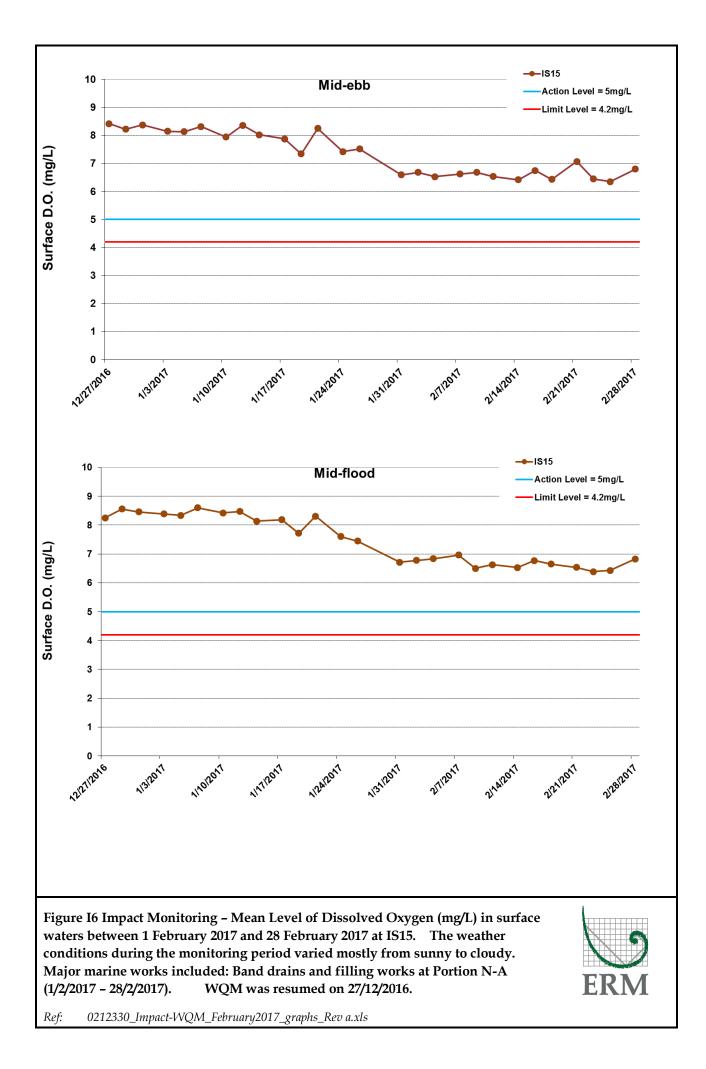


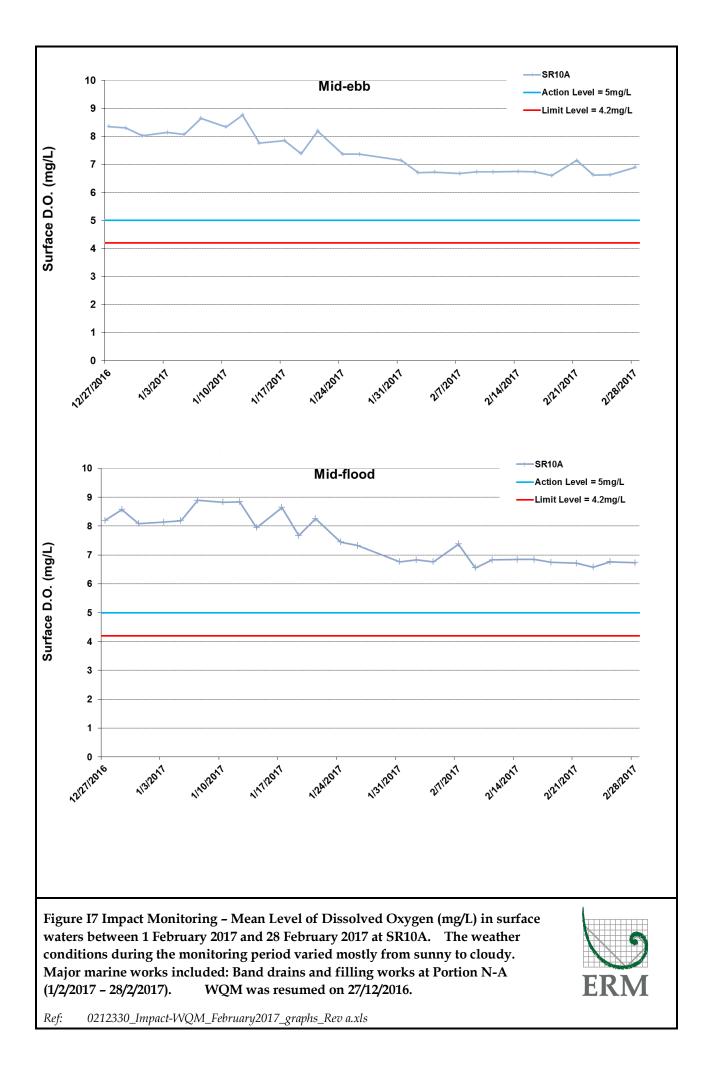


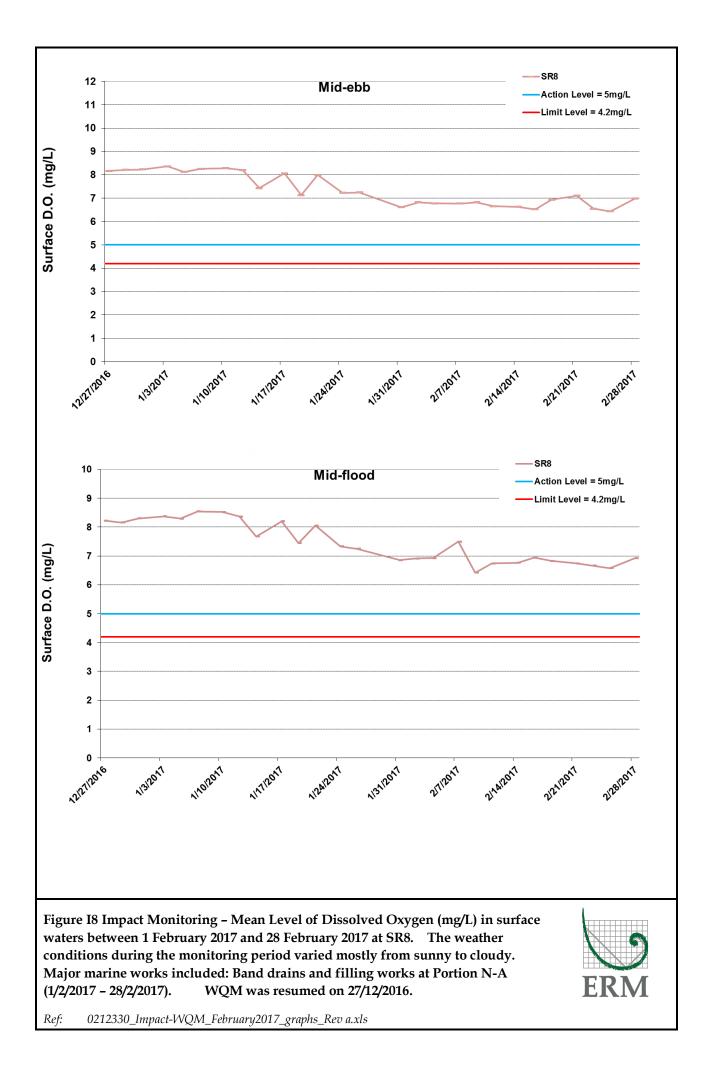


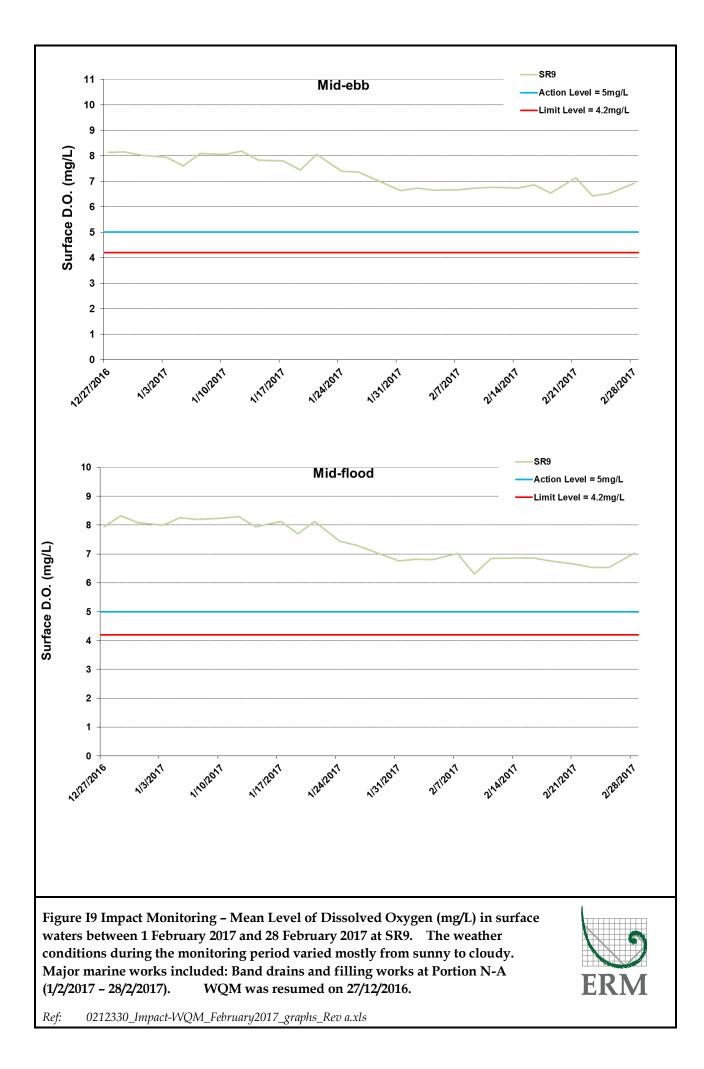


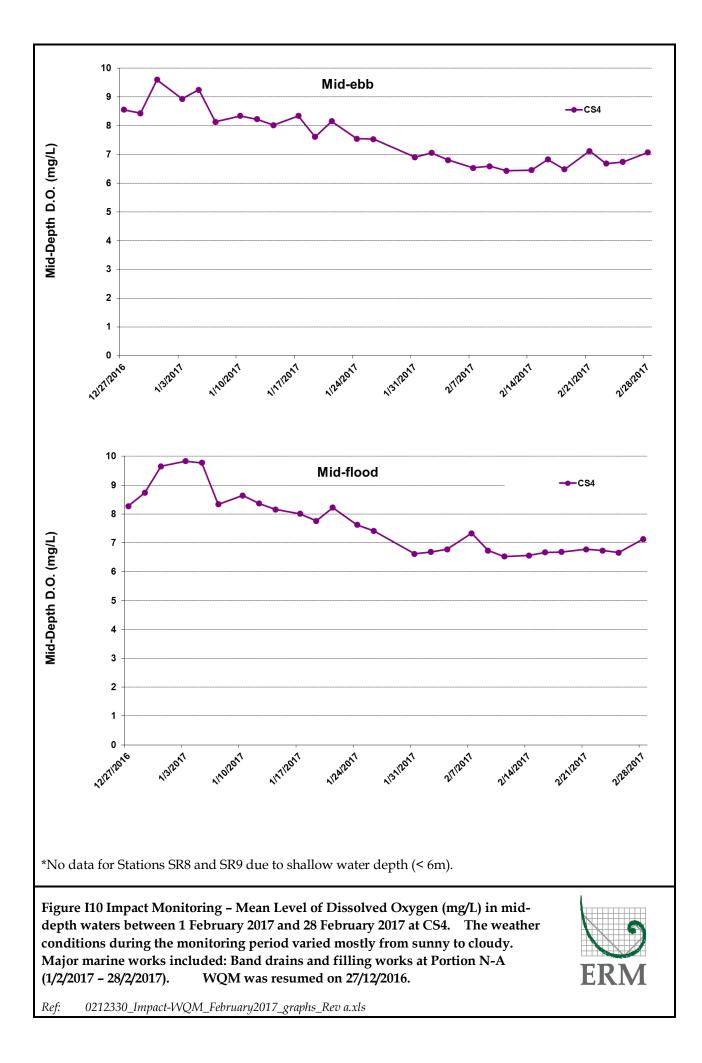


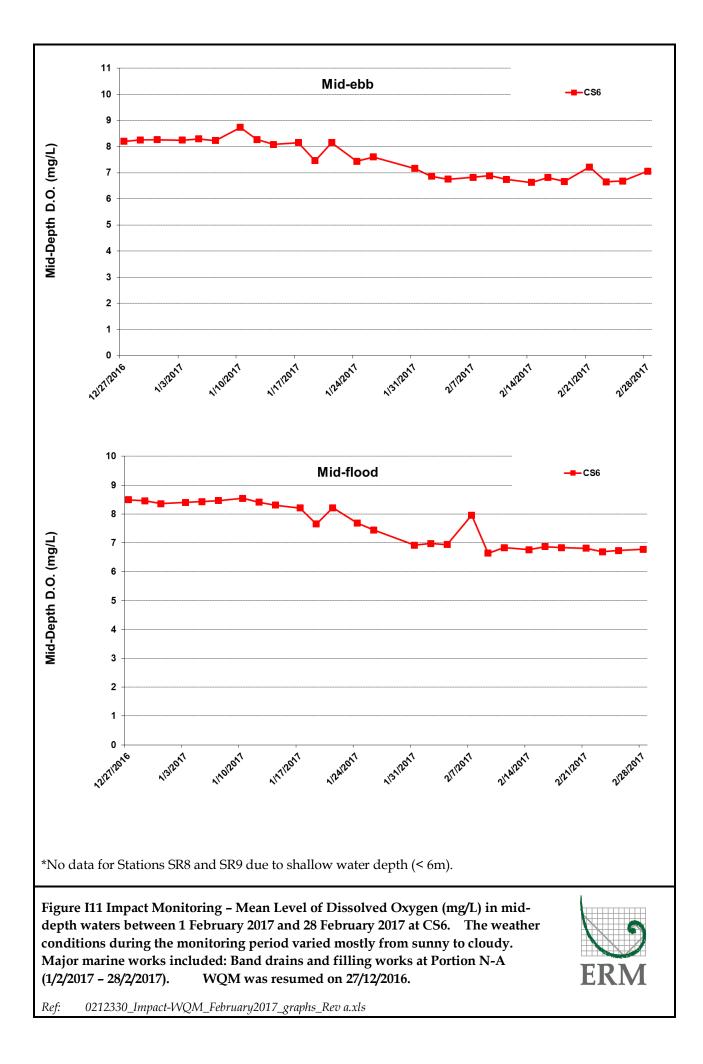


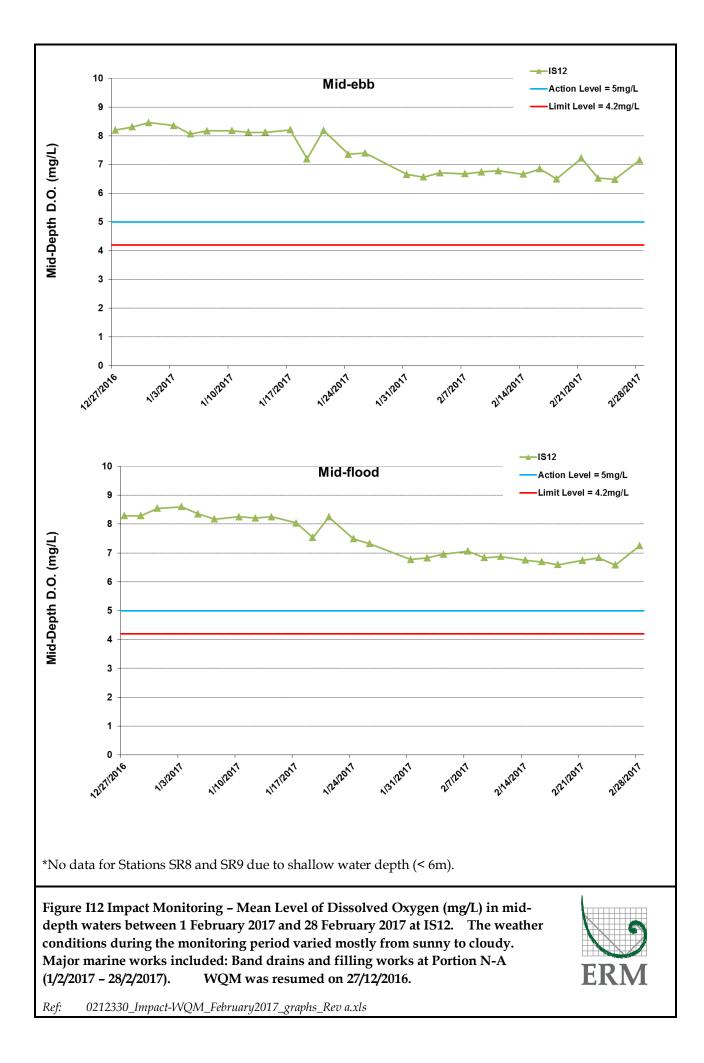


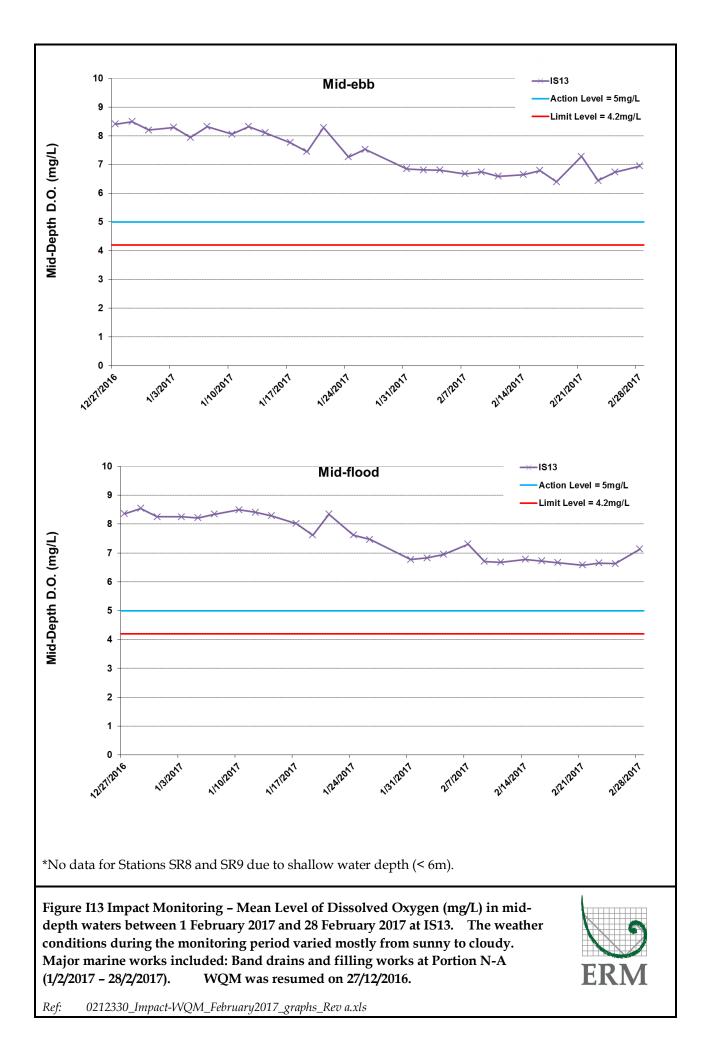


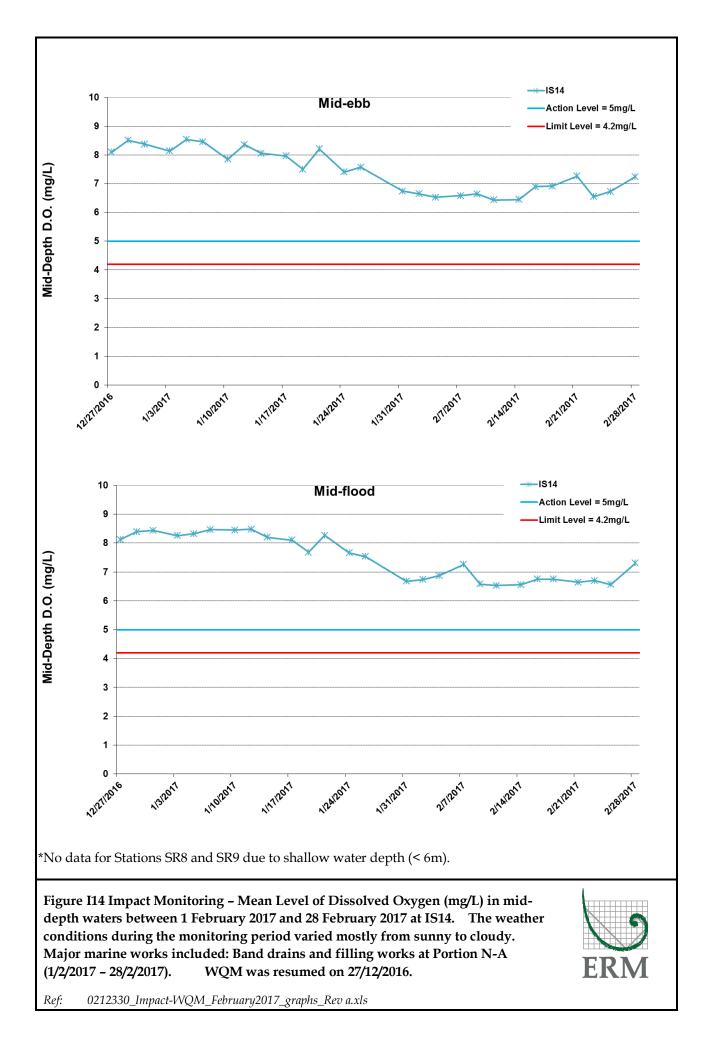


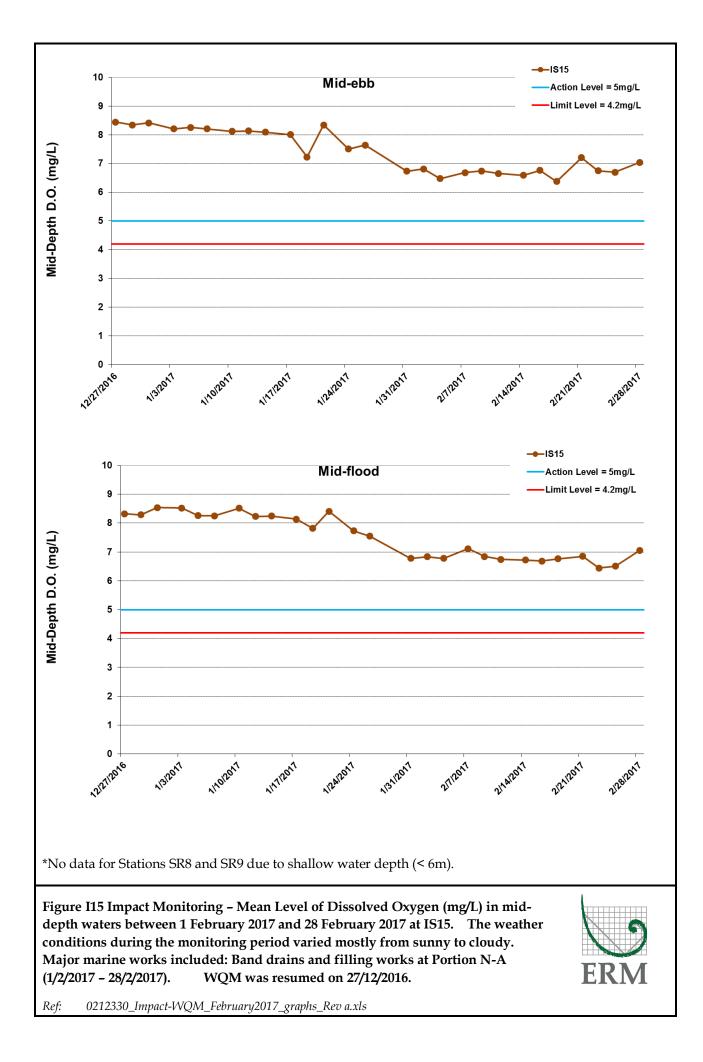


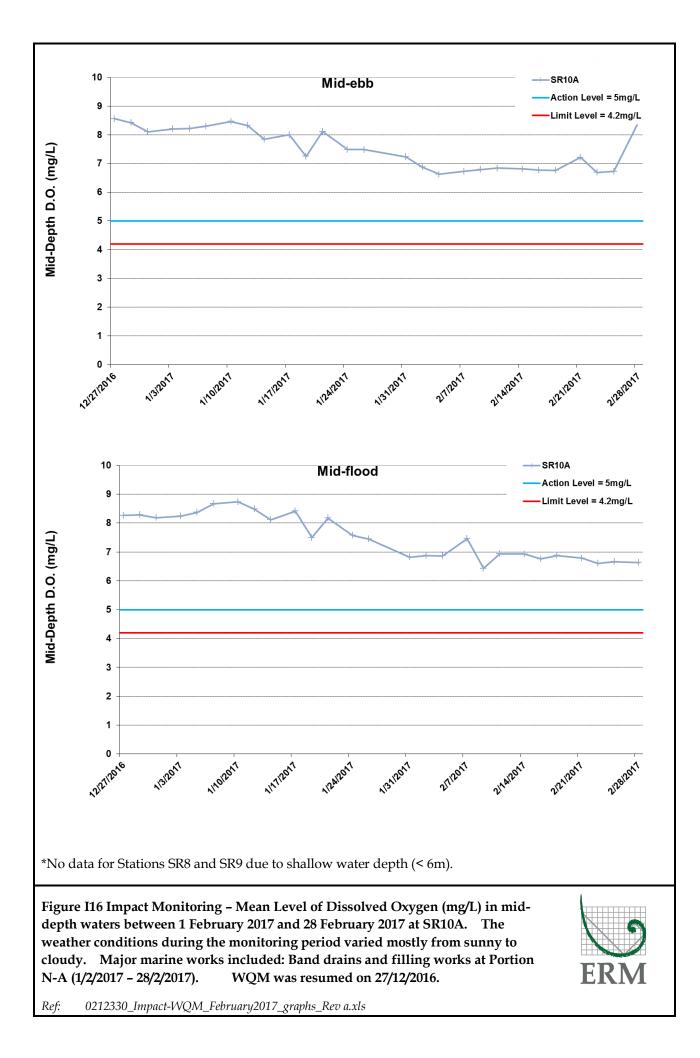


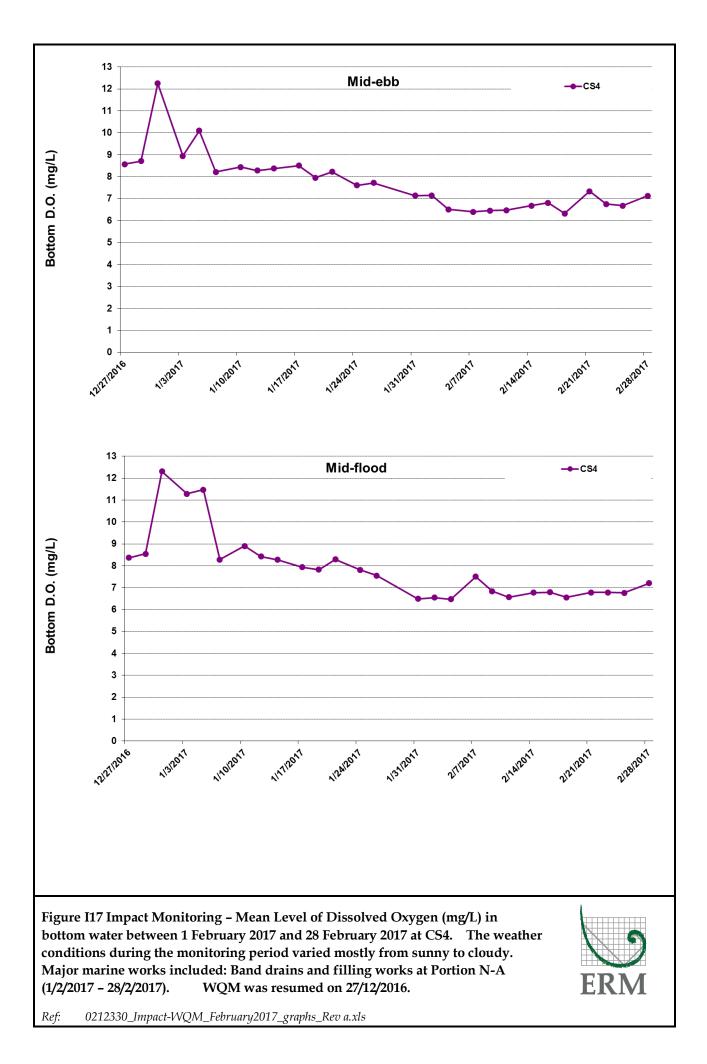


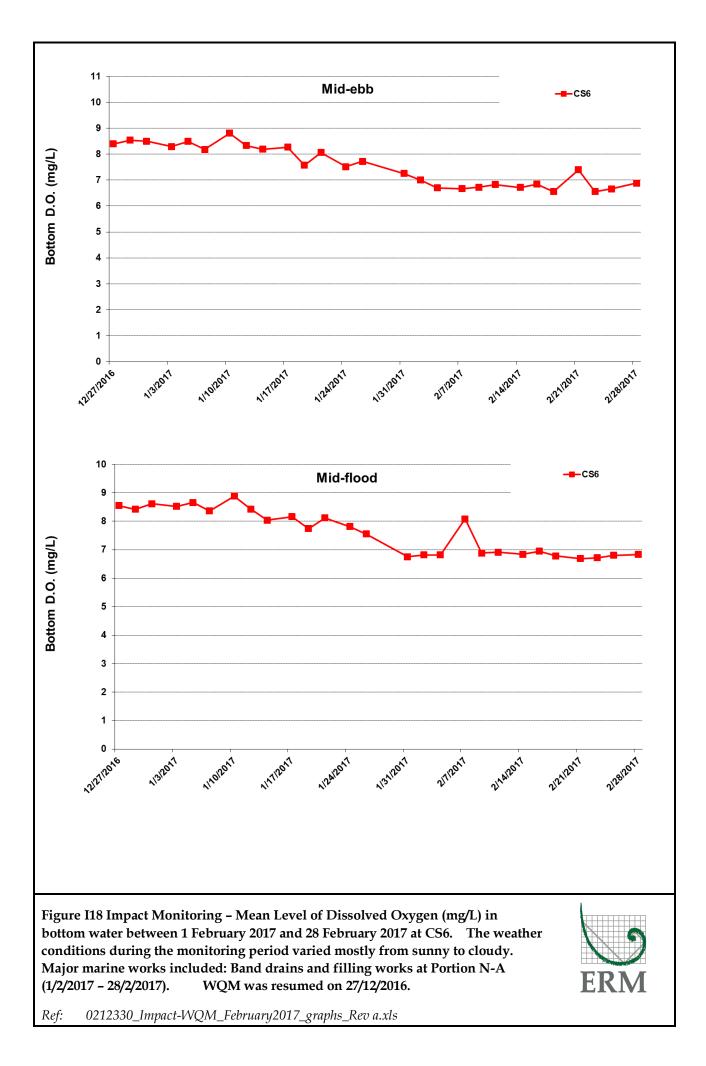


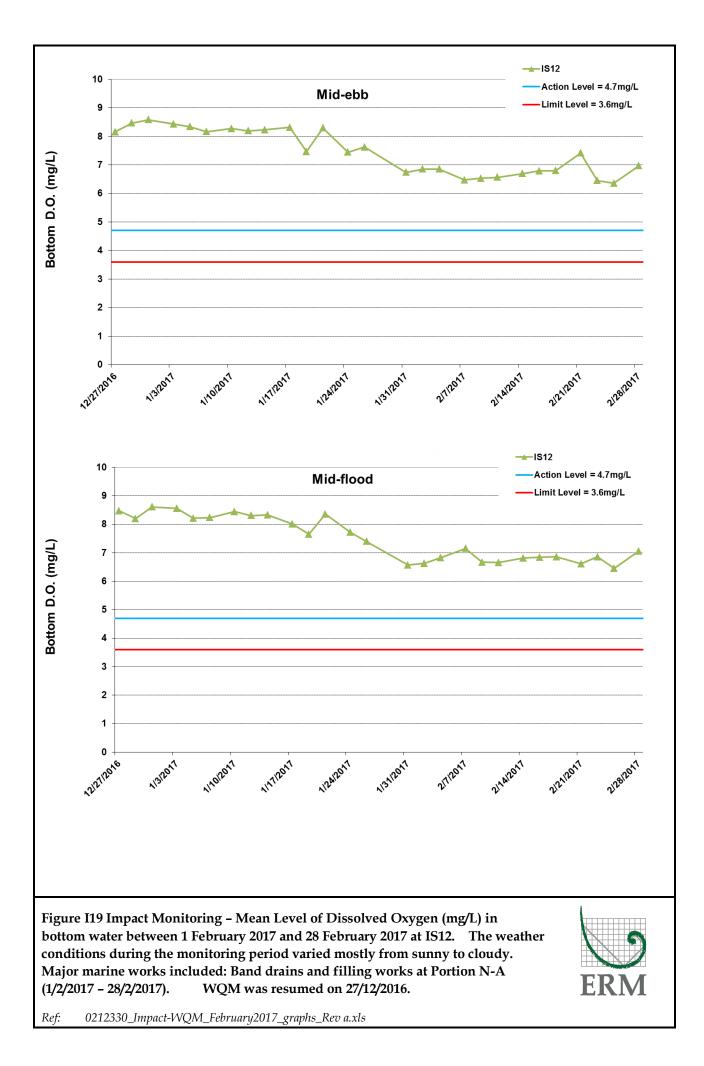


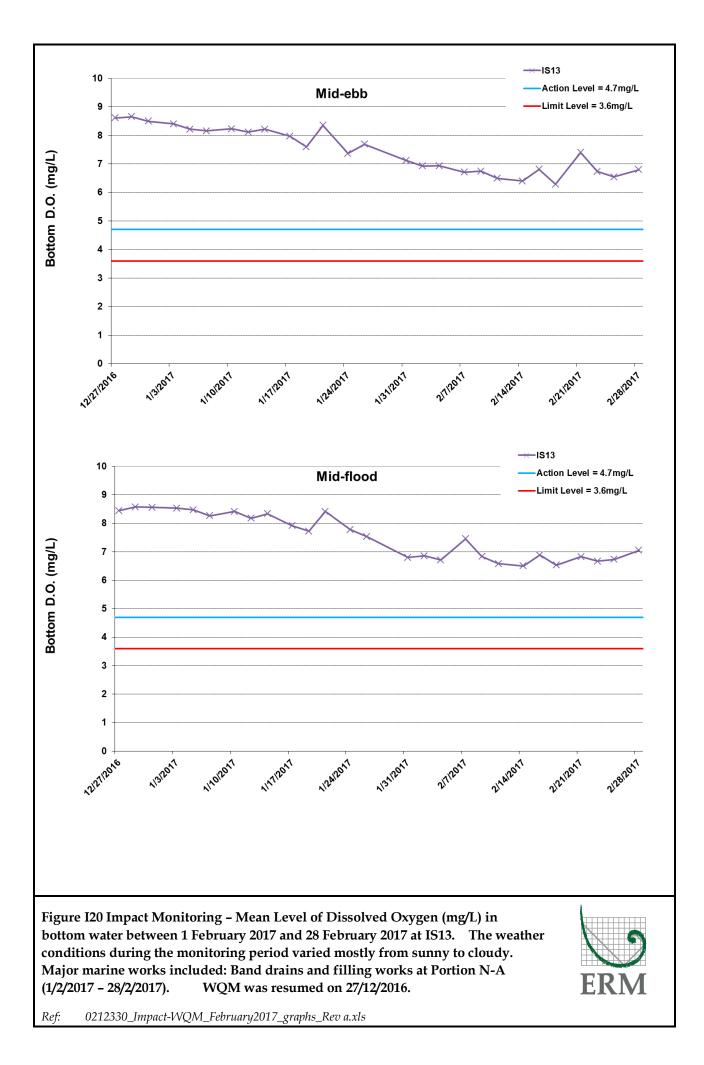


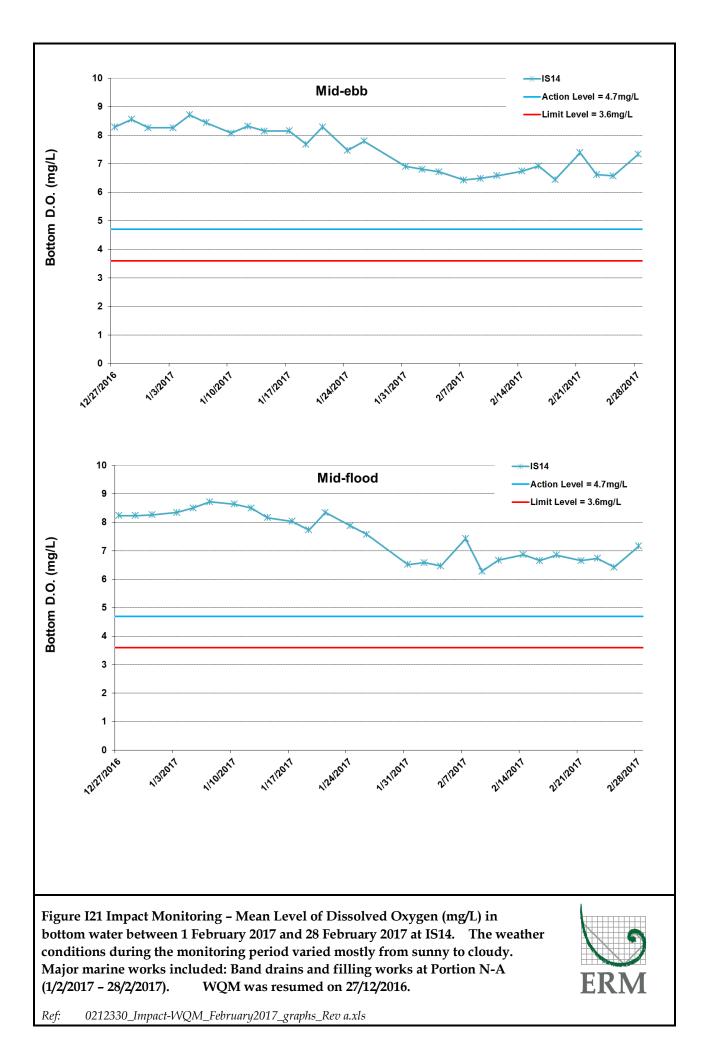


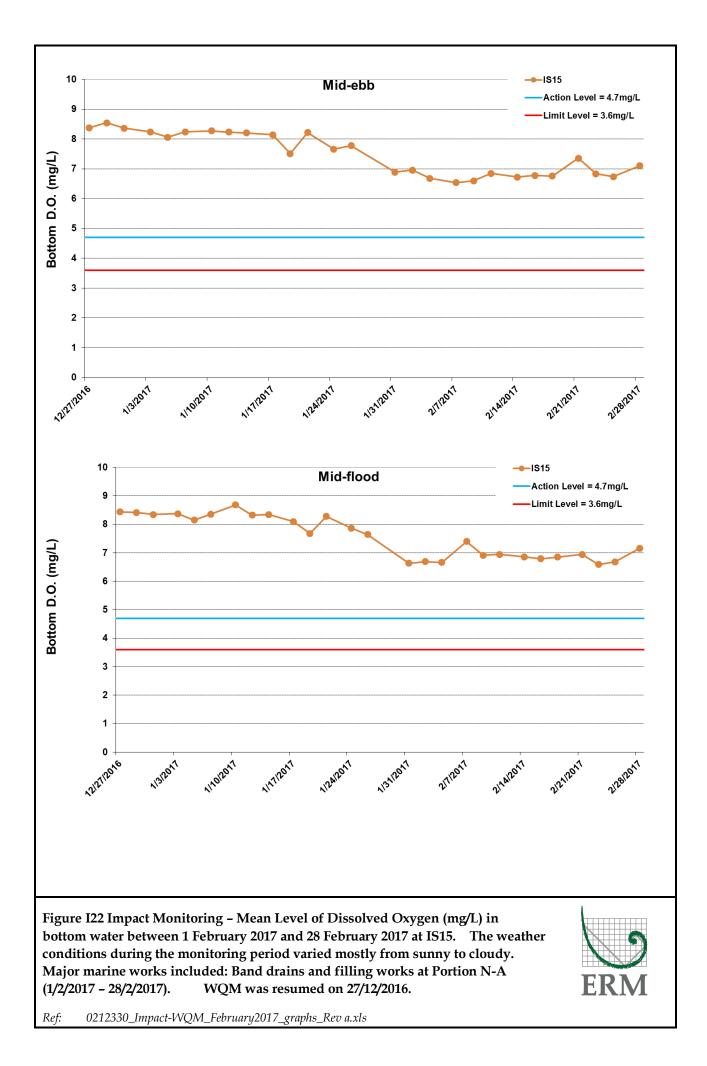


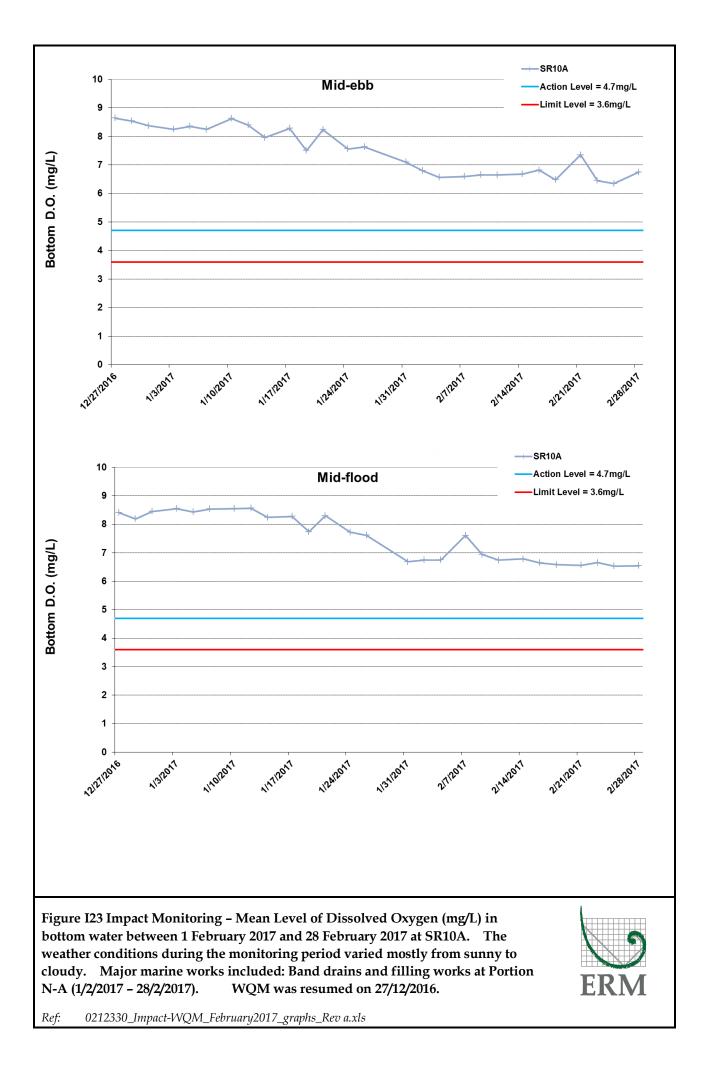


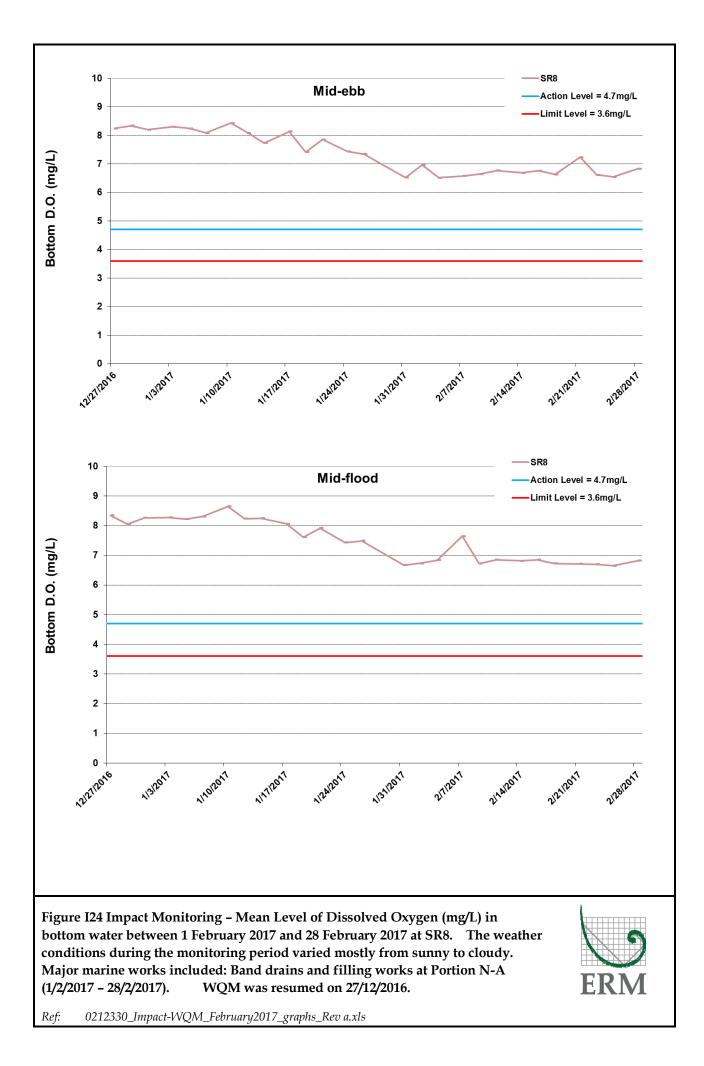


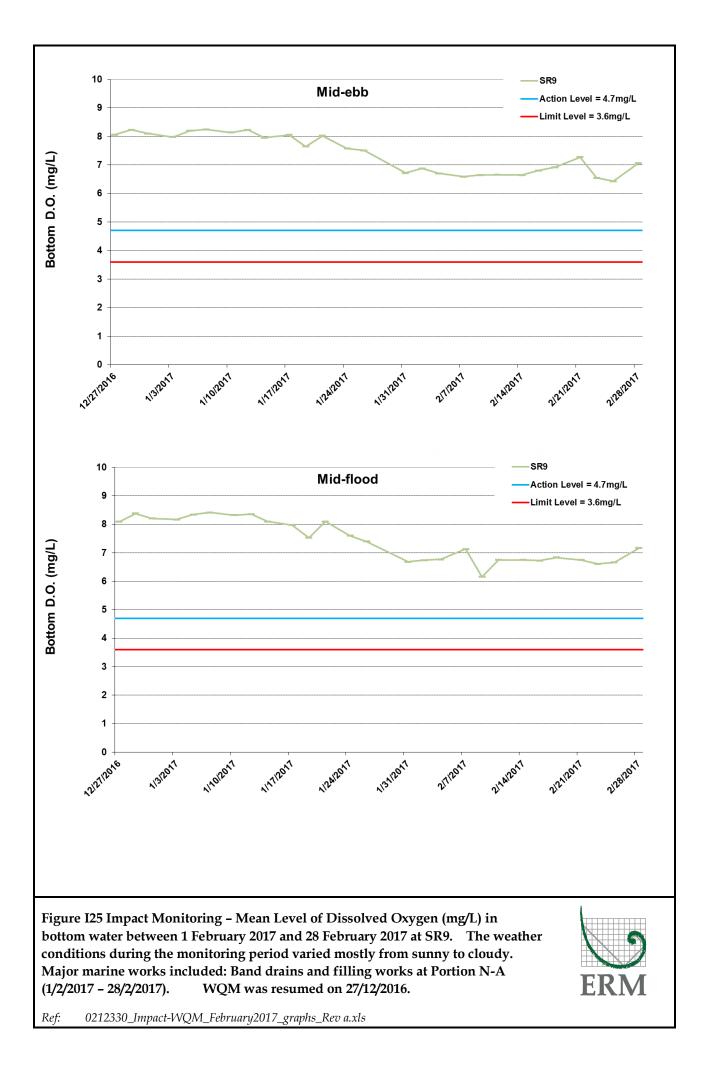


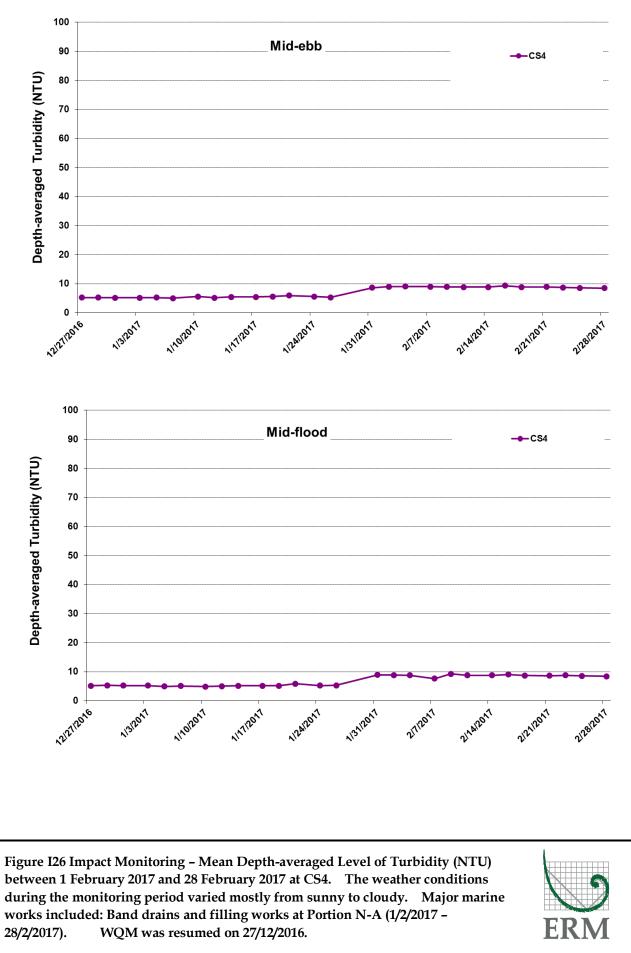


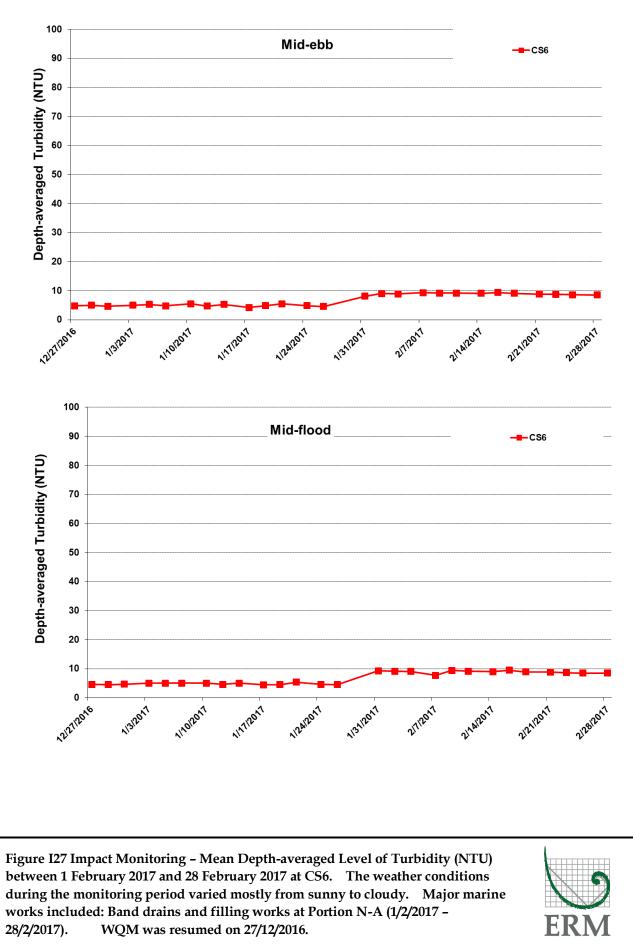


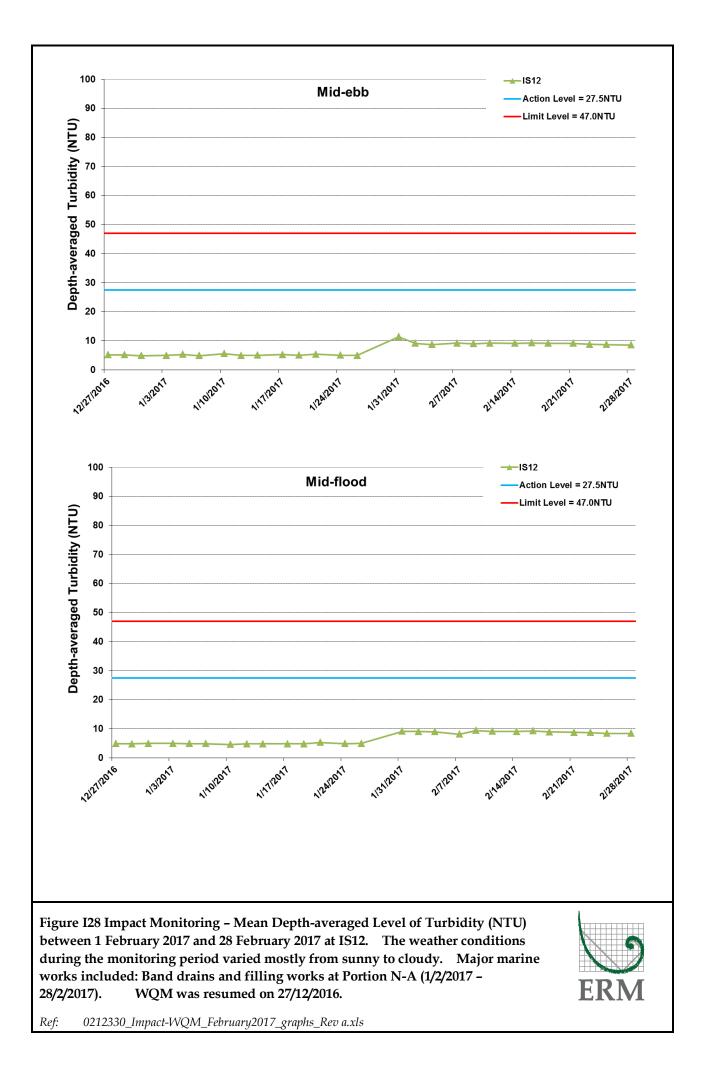


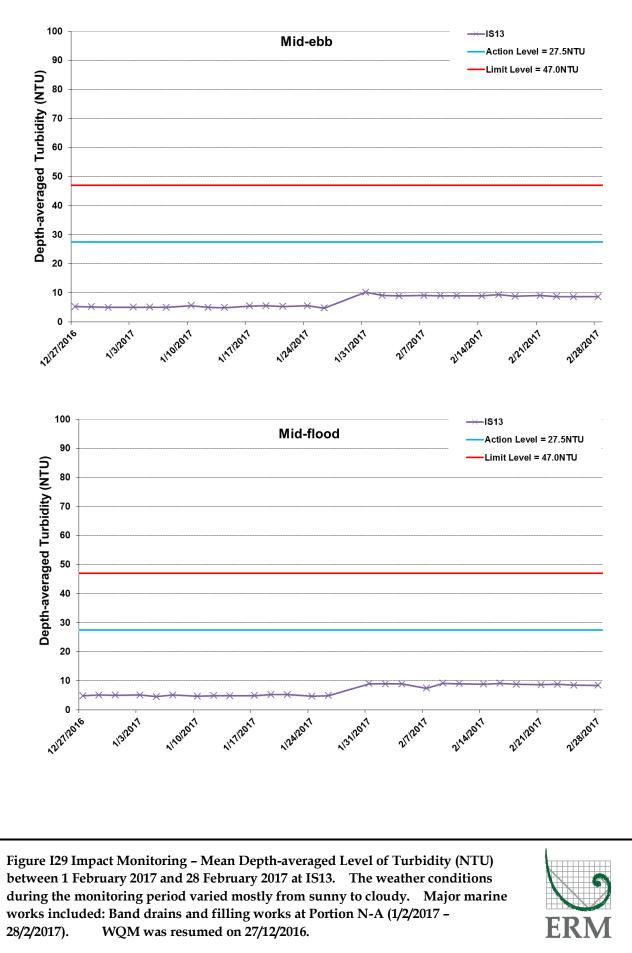


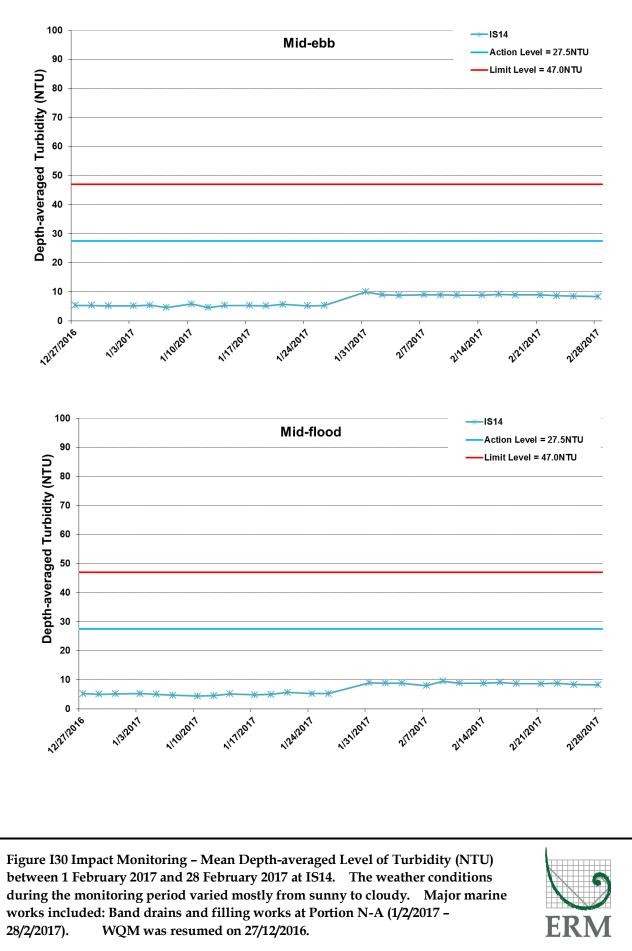


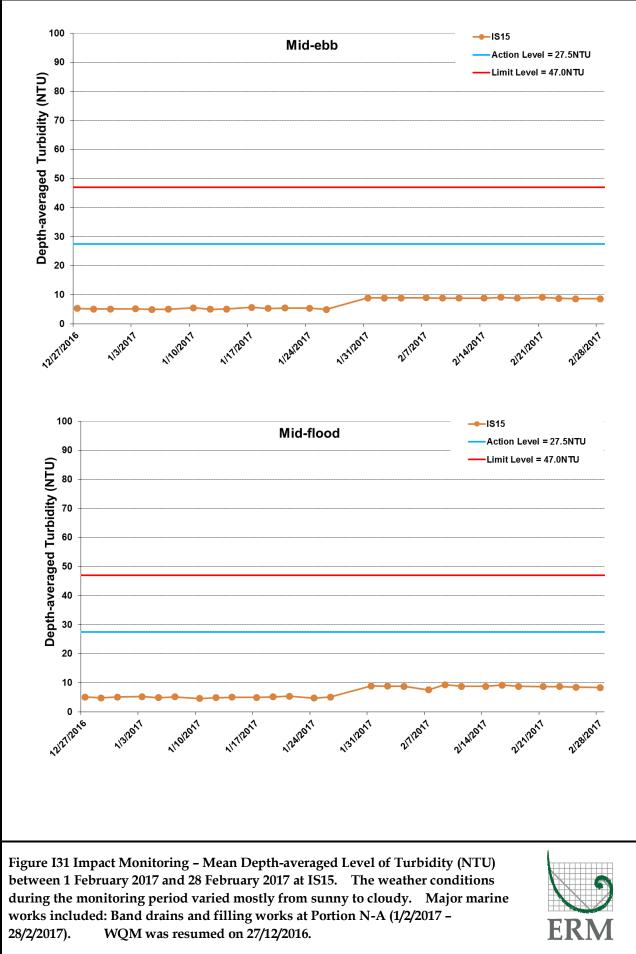


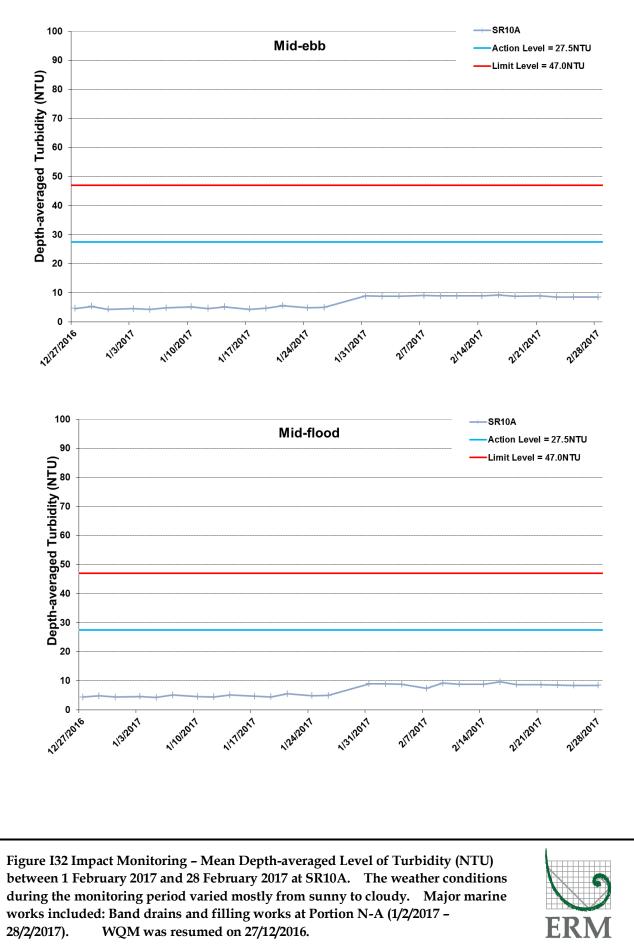


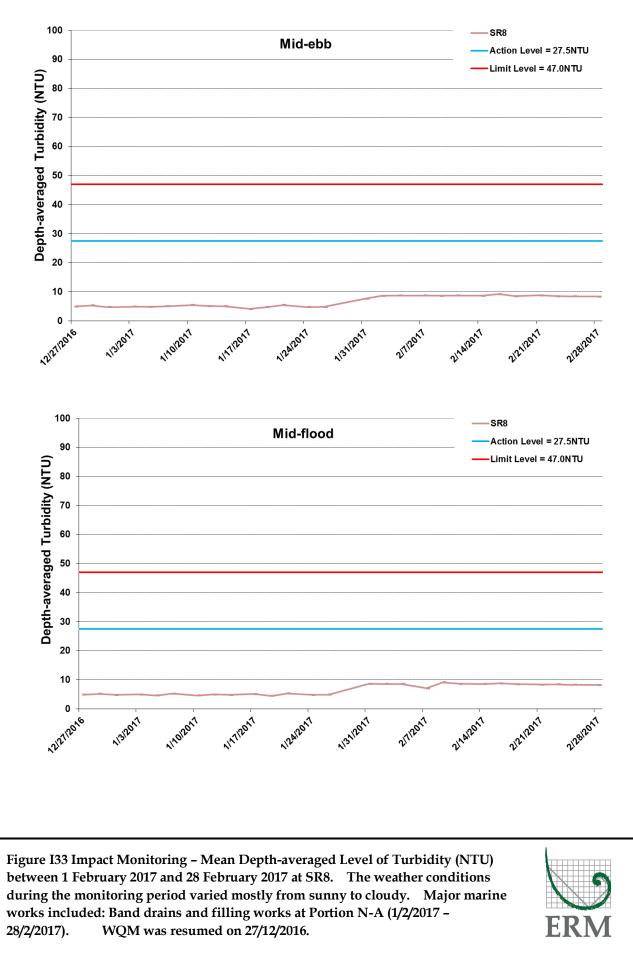


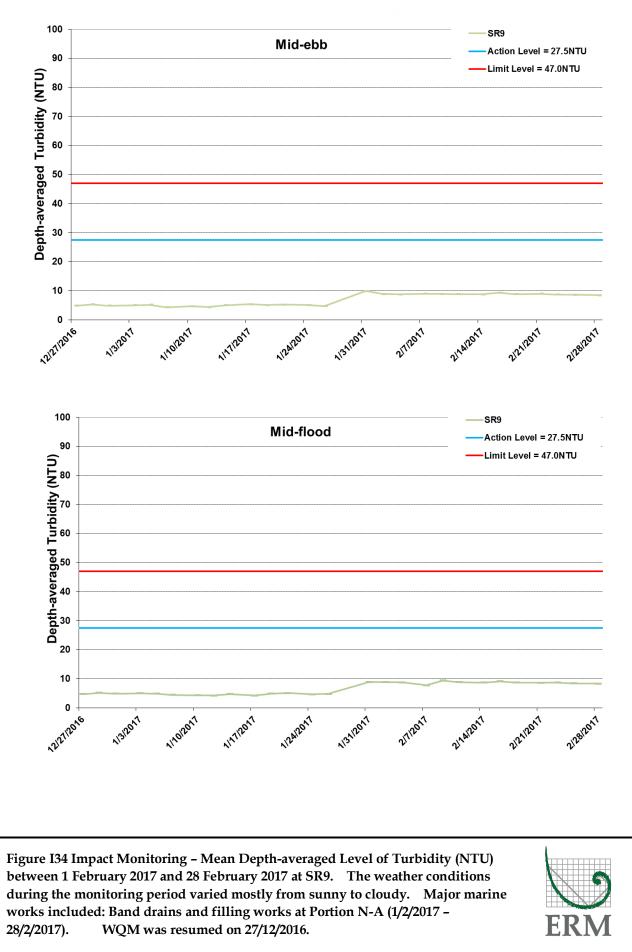


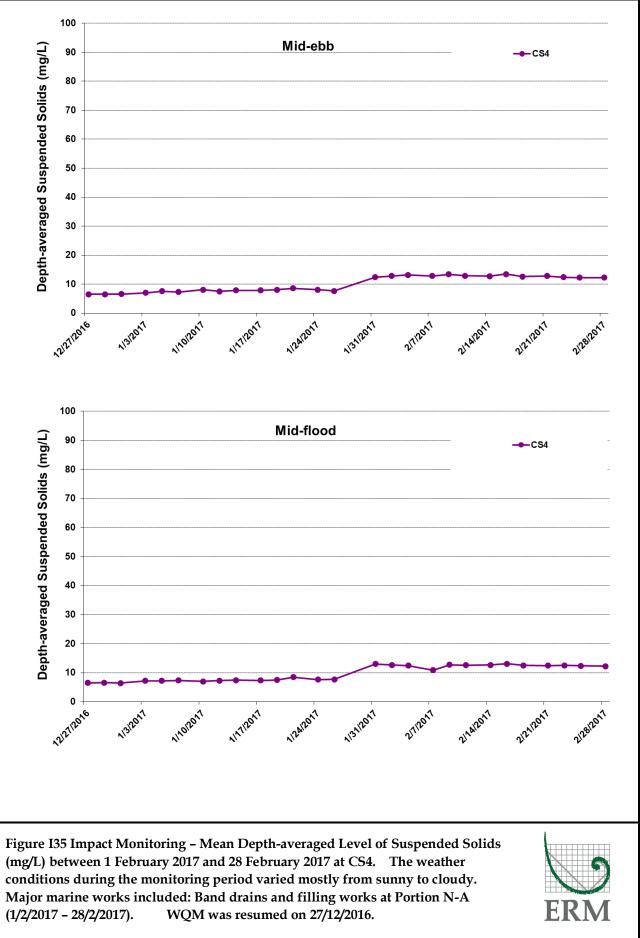


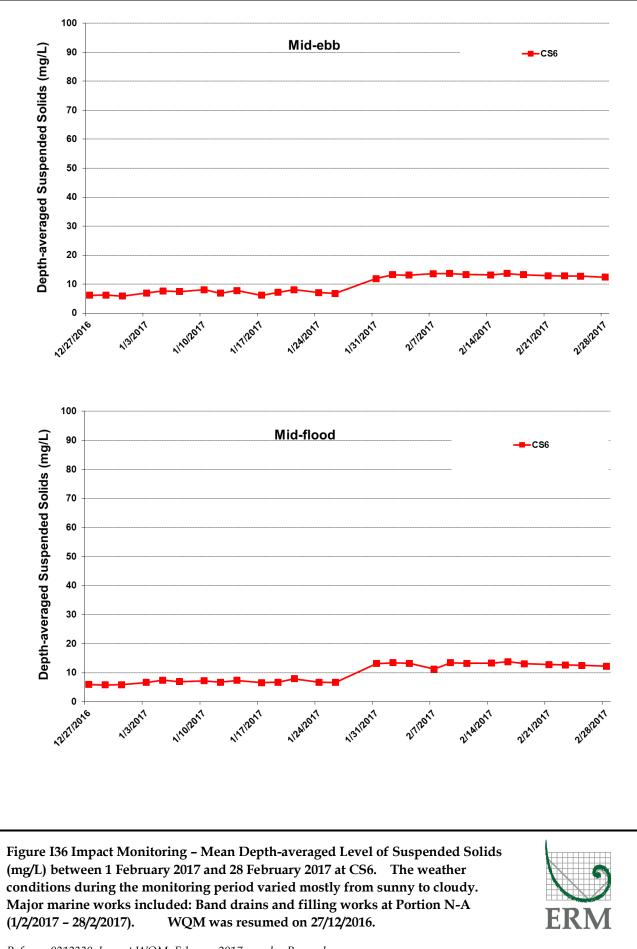


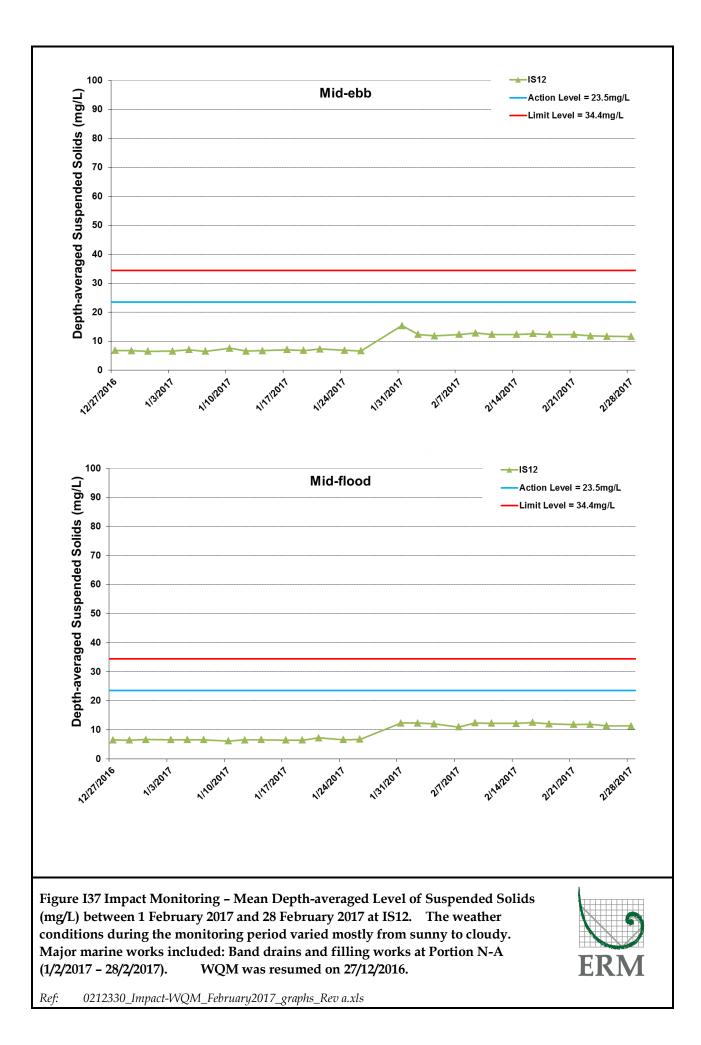


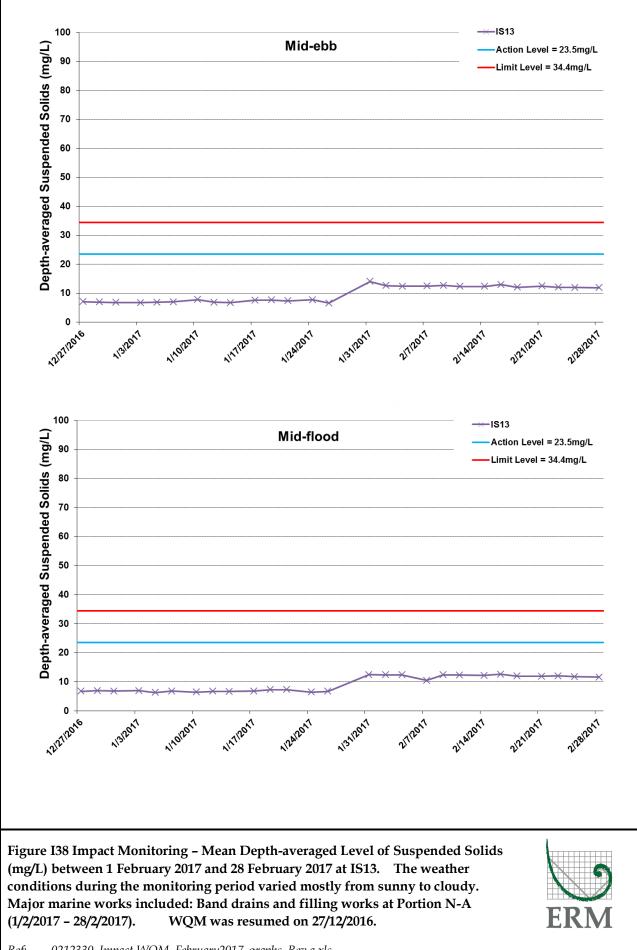




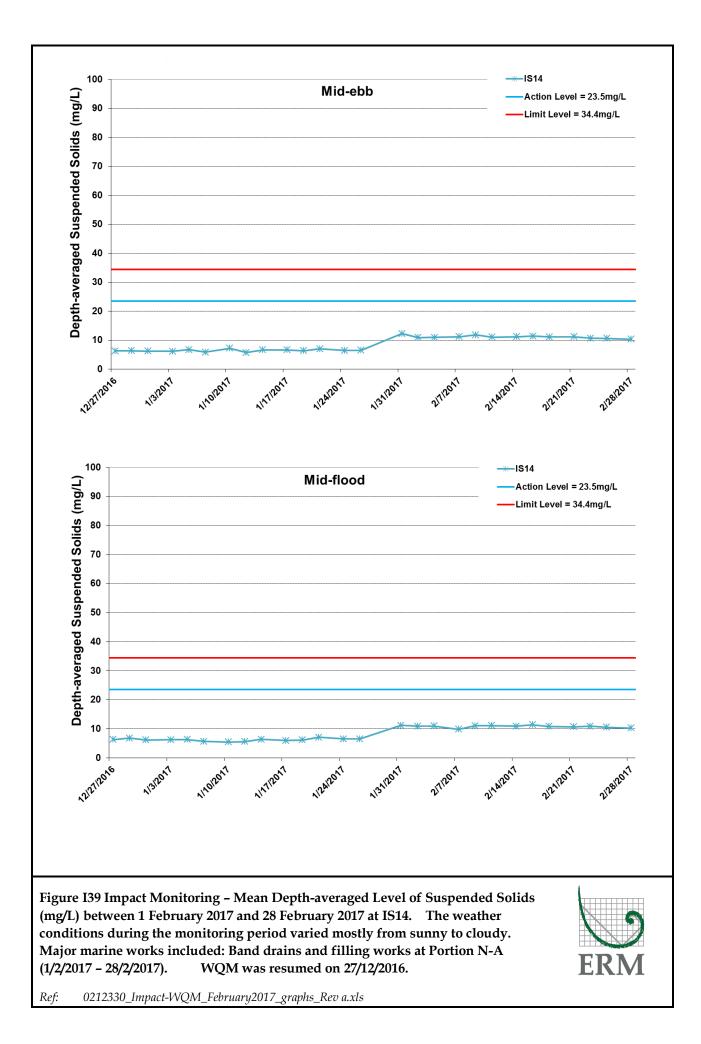


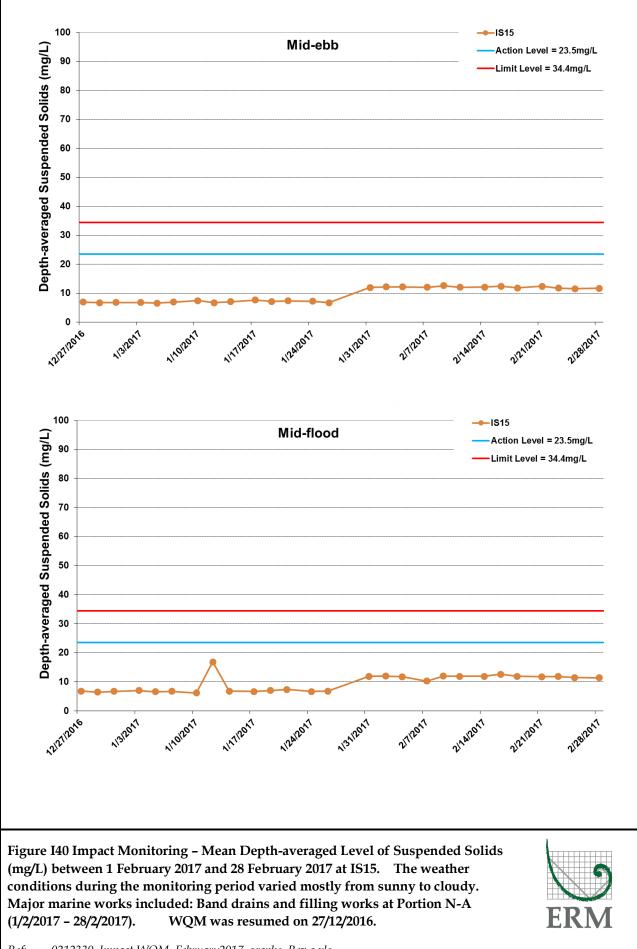


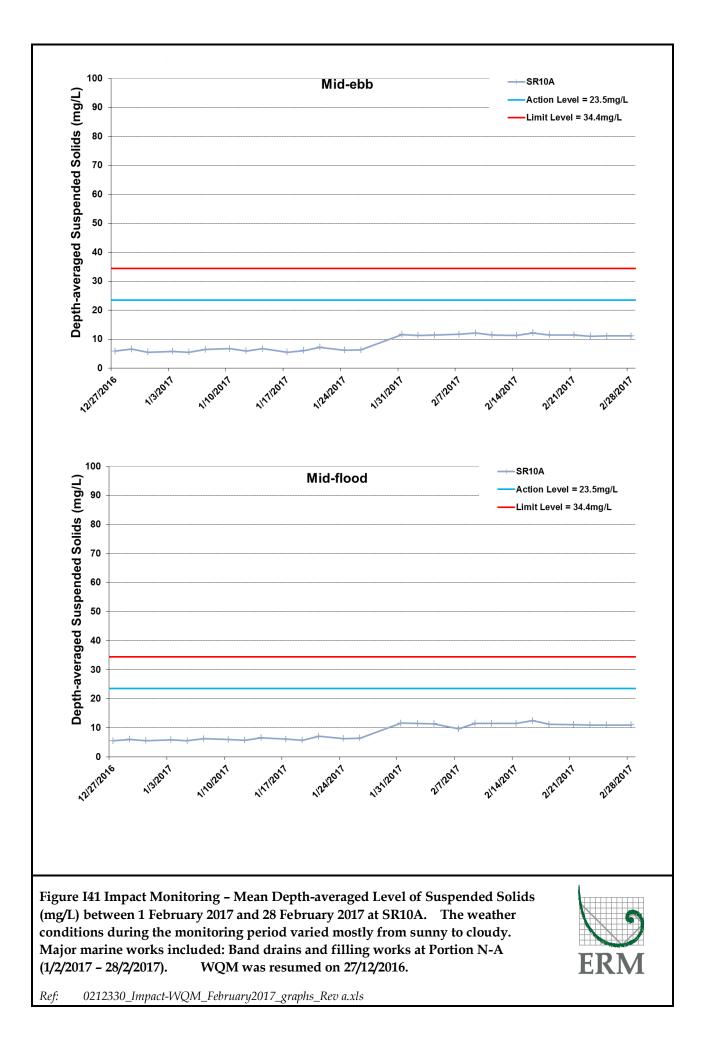


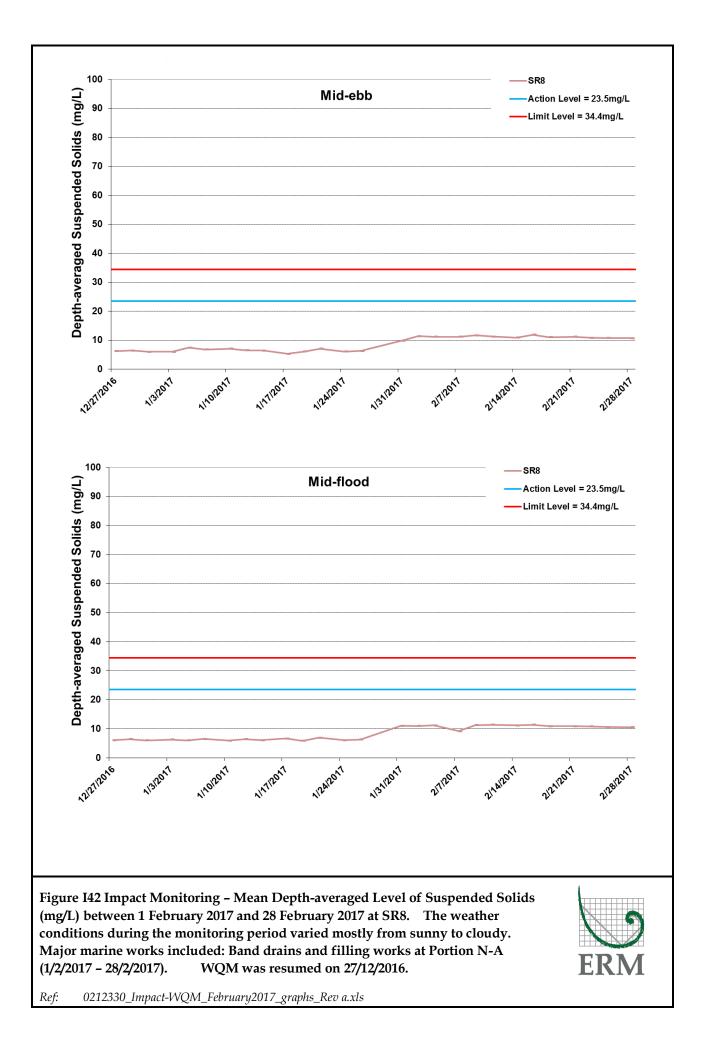


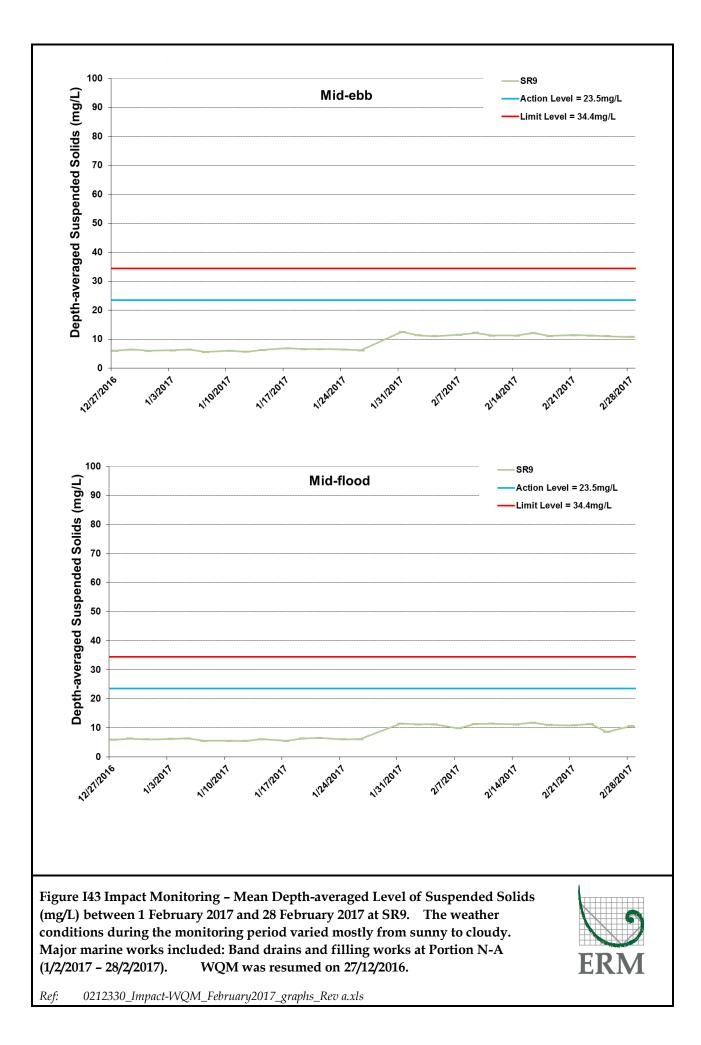
0212330\_Impact-WQM\_February2017\_graphs\_Rev a.xls Ref:











Project	Works	Date	Tide	Weather	Sea Condition	Stat	Level	Water Depth	Lev_Cod	Replicate	Time	Temp(°C)	рН	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)
TMCLKL	HY/2012/08	2017-02-02	Mid-Flood	Cloudy	Small wave	CS4	Surface	1	1	1	12:13	18.9	7.79	26.8	6.74	8.76	12.6
TMCLKL	HY/2012/08	2017-02-02	Mid-Flood	Cloudy	Small wave	CS4	Surface	1	1	2	15:01	19	7.83	26.9	6.78	8.83	12.5
TMCLKL	HY/2012/08	2017-02-02	Mid-Flood	Cloudy	Small wave	CS4	Middle	9.1	2	1	15:01	19	7.74	27.1	6.7	8.58	12.3
TMCLKL	HY/2012/08	2017-02-02	Mid-Flood	Cloudy	Small wave	CS4	Middle	9.1	2	2	15:01	18.9	7.8	27	6.66	8.65	12.5
TMCLKL	HY/2012/08	2017-02-02	Mid-Flood	Cloudy	Small wave	CS4	Bottom	17.2	3	1	15:01	19	7.83	27.1	6.54	9	13.1
TMCLKL	HY/2012/08	2017-02-02	Mid-Flood	Cloudy	Small wave	CS4	Bottom	17.2	3	2	15:01	19.1	7.76	27.2	6.56	9.07	13.1
TMCLKL	HY/2012/08	2017-02-02	Mid-Flood	Cloudy	Small wave	CS6	Surface	1	1	1	09:57	18.8	7.79	27.2	6.9	8.85	12.9
TMCLKL	HY/2012/08	2017-02-02	Mid-Flood	Cloudy	Small wave	CS6	Surface	1	1	2	09:57	18.9	7.83	27.3	6.94	8.8	13
TMCLKL	HY/2012/08	2017-02-02	Mid-Flood	Cloudy	Small wave	CS6	Middle	6.9	2	1	09:57	18.9	7.75	27.4	6.99	9.07	13.4
TMCLKL	HY/2012/08	2017-02-02	Mid-Flood	Cloudy	Small wave	CS6	Middle	6.9	2	2	09:57	19	7.8	27.3	6.96	9.14	13.6
TMCLKL	HY/2012/08	2017-02-02	Mid-Flood	Cloudy	Small wave	CS6	Bottom	12.8	3	1	09:57	19	7.76	27.4	6.83	9.45	13.7
TMCLKL	HY/2012/08	2017-02-02	Mid-Flood	Cloudy	Small wave	CS6	Bottom	12.8	3	2	09:57	19.1	7.81	27.5	6.8	9.57	13.9
TMCLKL	HY/2012/08	2017-02-02	Mid-Flood	Cloudy	Small wave	IS12	Surface	1	1	1	11:39	18.7	7.7	26.9	6.79	9.04	12.4
TMCLKL	HY/2012/08	2017-02-02	Mid-Flood	Cloudy	Small wave	IS12	Surface	1	1	2	15:33	18.8	7.73	27	6.76	8.98	12
TMCLKL	HY/2012/08	2017-02-02	Mid-Flood	Cloudy	Small wave	IS12	Middle	6.6	2	1	15:33	18.8	7.74	27.1	6.81	8.9	12.3
TMCLKL	HY/2012/08	2017-02-02	Mid-Flood	Cloudy	Small wave	IS12	Middle	6.6	2	2	15:33	18.9	7.7	27	6.85	8.94	12.2
TMCLKL	HY/2012/08	2017-02-02	Mid-Flood	Cloudy	Small wave	IS12	Bottom	12.2	3	1	15:33	19	7.73	27.1	6.64	9.25	12.7
TMCLKL	HY/2012/08	2017-02-02	Mid-Flood	Cloudy	Small wave	IS12	Bottom	12.2	3	2	15:33	19.1	7.76	27.2	6.61	9.31	12.4
TMCLKL	HY/2012/08	2017-02-02	Mid-Flood	Cloudy	Small wave	IS13	Surface	1	1	1	11:22	18.9	7.74	26.8	6.94	8.95	12.5
TMCLKL	HY/2012/08	2017-02-02	Mid-Flood	Cloudy	Small wave	IS13	Surface	1	1	2	15:51	19	7.79	26.7	6.9	8.86	12.3
TMCLKL	HY/2012/08	2017-02-02	Mid-Flood	Cloudy	Small wave	IS13	Middle	5.7	2	1	15:51	19	7.76	26.8	6.85	8.66	11.7
TMCLKL	HY/2012/08	2017-02-02	Mid-Flood	Cloudy	Small wave	IS13	Middle	5.7	2	2	15:51	19.1	7.8	26.9	6.81	8.72	12.1
TMCLKL	HY/2012/08	2017-02-02	Mid-Flood	Cloudy	Small wave	IS13	Bottom	10.4	3	1	15:51	19.1	7.72	27	6.85	9.16	13
TMCLKL	HY/2012/08	2017-02-02	Mid-Flood	Cloudy	Small wave	IS13	Bottom	10.4	3	2	15:51	19	7.76	26.9	6.87	9.22	12.8
TMCLKL	HY/2012/08	2017-02-02	Mid-Flood	Cloudy	Small wave	IS14	Surface	1	1	1	11:56	18.8	7.74	26.8	6.8	8.94	11
TMCLKL	HY/2012/08	2017-02-02	Mid-Flood	Cloudy	Small wave	IS14	Surface	1	1	2	15:17	18.9	7.7	26.9	6.77	8.86	10.8
TMCLKL	HY/2012/08	2017-02-02	Mid-Flood	Cloudy	Small wave	IS14	Middle	5.9	2	1	15:17	18.9	7.73	26.9	6.75	8.61	10.5
TMCLKL	HY/2012/08	2017-02-02	Mid-Flood	Cloudy	Small wave	IS14	Middle	5.9	2	2	15:17	19	7.78		6.72	8.67	10.6
TMCLKL	HY/2012/08	2017-02-02	Mid-Flood	Cloudy	Small wave	IS14	Bottom	10.8	3	1	15:17	19.2	7.76	27	6.59	9.04	11
TMCLKL	HY/2012/08	2017-02-02	Mid-Flood	Cloudy	Small wave	IS14	Bottom	10.8	3	2	15:17	19.1	7.73	27.1	6.57	9.12	11.6
TMCLKL	HY/2012/08	2017-02-02	Mid-Flood	Cloudy	Small wave	IS15	Surface	1	1	1	11:05	18.7	7.66	26.8	6.79	8.85	12.1
TMCLKL	HY/2012/08	2017-02-02	Mid-Flood	Cloudy	Small wave	IS15	Surface	1	1	2	16:07	18.8		26.9	6.76	8.78	12
TMCLKL	HY/2012/08	2017-02-02	Mid-Flood	Cloudy	Small wave	IS15	Middle	5.1	2	1	16:07	18.9	7.64	26.9	6.82	8.55	11.3
TMCLKL	HY/2012/08	2017-02-02	Mid-Flood	Cloudy	Small wave	IS15	Middle	5.1	2	2	16:07	19	7.7	27	6.85	8.61	11.7
TMCLKL	HY/2012/08	2017-02-02	Mid-Flood	Cloudy	Small wave	IS15	Bottom	9.2	3	1	16:07	19	7.72	27.1	6.71	9.03	12.1
TMCLKL	HY/2012/08	2017-02-02	Mid-Flood	Cloudy	Small wave	IS15		9.2	3	2	16:07	19.1	7.75	27	6.67	9.14	12.5
TMCLKL	HY/2012/08	2017-02-02	Mid-Flood	Cloudy	Small wave	SR8	Surface	1	1	1	10:31	18.7	7.64	27.1	6.93	8.4	10.7
TMCLKL	HY/2012/08	2017-02-02	Mid-Flood	Cloudy	Small wave	SR8	Surface	1	1	2	10:31	18.8	7.69	27	6.9	8.46	11.1
TMCLKL	HY/2012/08	2017-02-02	Mid-Flood	Cloudy	Small wave	SR8	Middle		2	1	10:31						
TMCLKL	HY/2012/08	2017-02-02	Mid-Flood	Cloudy	Small wave	SR8	Middle		2	2	10:31						
TMCLKL	HY/2012/08	2017-02-02	Mid-Flood	Cloudy	Small wave	SR8		4.8	3	1	-	18.9	7.72	27.1	6.72	8.67	11.2
TMCLKL	HY/2012/08	2017-02-02	Mid-Flood	Cloudy	Small wave	SR8	Bottom	4.8	3	2	10:31	18.8	7.67	27.2	6.75	8.75	11
TMCLKL	HY/2012/08	2017-02-02	Mid-Flood	Cloudy	Small wave	SR9	Surface	1	1	1	10:48	18.8	7.6	26.9	6.83	8.65	10.8
TMCLKL	HY/2012/08	2017-02-02	Mid-Flood	Cloudy	Small wave	SR9	Surface	1	1	2	10:48	18.9	7.66	27	6.8	8.76	10.9
TMCLKL	HY/2012/08	2017-02-02	Mid-Flood	Cloudy	Small wave	SR9	Middle		2	1	10:48						T
TMCLKL	HY/2012/08	2017-02-02	Mid-Flood	Cloudy	Small wave	SR9	Middle		2	2	10:48	1		l	1	1	
TMCLKL	HY/2012/08	2017-02-02	Mid-Flood	Cloudy	Small wave	SR9		3.5	3	1	10:48	18.8	7.69	27	6.72	8.95	11.3
TMCLKL	HY/2012/08	2017-02-02	Mid-Flood	Cloudy	Small wave	SR9		3.5	3	2	10:48	18.7		27.1	6.76	9.03	11.6
TMCLKL	HY/2012/08	2017-02-02	Mid-Flood	Cloudy	Small wave	SR10A	Surface	1	1	1		18.6		26.9	6.81	8.59	11
TMCLKL	HY/2012/08	2017-02-02	Mid-Flood	Cloudy	Small wave	SR10A	Surface	1	1	2	-	18.7		27	6.84	8.65	11
TMCLKL	HY/2012/08	2017-02-02	Mid-Flood	Cloudy	Small wave	÷	Middle	7.1	2	1		18.8		27	6.87	8.83	11.6
TMCLKL	HY/2012/08	2017-02-02	Mid-Flood	Cloudy	Small wave	SR10A	Middle	7.1	2	2	-	18.9	7.8	27.1	6.89	8.9	11.3
TMCLKL	HY/2012/08	2017-02-02	Mid-Flood	Cloudy	Small wave	SR10A	Bottom	13.2	3	1		18.9	7.79	27.1	6.76	9.15	11.7
TMCLKL	HY/2012/08	2017-02-02	Mid-Flood	Cloudy	Small wave	SR10A	Bottom	13.2	3	2		19		27.2	6.73	9.22	12.2
	HY/2012/08	2017-02-02	Mid-Ebb	Cloudy			Surface	1	1	1	-	19.4		27.2	6.89	8.9	12.6
			Mid-Ebb	Cloudy	Small wave		Surface	· · · · · · · · · · · · · · · · · · ·	l	· ·	15:01				6.94	8.95	12.6

Project	Works	Date	Tide	Weather	Sea Condition	Stat	Level	Water Depth	Lev_Cod	Replicate	Time	Temp(°C)	рН	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)
TMCLKL	HY/2012/08	2017-02-02	Mid-Ebb	Cloudy		CS4	Middle	9	2	1	15:01	19.3	7.91	27.2	7.03	8.74	12.9
TMCLKL	HY/2012/08	2017-02-02	Mid-Ebb	Cloudy	Small wave	CS4	Middle	9	2	2	15:01	19.4	7.93	27.3	7.08	8.8	12.8
TMCLKL	HY/2012/08	2017-02-02	Mid-Ebb	Cloudy	Small wave	CS4	Bottom	16.9	3	1	15:01	19.4	7.88	27.3	7.18	9.12	13.1
TMCLKL	HY/2012/08	2017-02-02	Mid-Ebb	Cloudy	Small wave	CS4	Bottom	16.9	3	2	15:01	19.5	7.86	27.3	7.11	9.16	13
TMCLKL	HY/2012/08	2017-02-02	Mid-Ebb	Cloudy	Small wave	CS6	Surface	1	1	1	16:51	19.3	7.83	27.2	6.77	8.98	13
TMCLKL	HY/2012/08	2017-02-02	Mid-Ebb	Cloudy	Small wave	CS6	Surface	1	1	2	16:51	19.3	7.8	27.3	6.71	8.92	13.3
TMCLKL	HY/2012/08	2017-02-02	Mid-Ebb	Cloudy	Small wave	CS6	Middle	6.7	2	1	16:51	19.4	7.88	27.4	6.89	8.85	12.9
TMCLKL	HY/2012/08	2017-02-02	Mid-Ebb	Cloudy	Small wave	CS6	Middle	6.7	2	2	16:51	19.3	7.91	27.4	6.83	8.89	12.7
TMCLKL	HY/2012/08	2017-02-02	Mid-Ebb	Cloudy	Small wave	CS6	Bottom	12.4	3	1	16:51	19.4	7.82	27.5	7.02	9.34	14
TMCLKL	HY/2012/08	2017-02-02	Mid-Ebb	Cloudy	Small wave	CS6	Bottom	12.4	3	2	16:51	19.5	7.78	27.4	6.98	9.29	13.7
TMCLKL	HY/2012/08	2017-02-02	Mid-Ebb	Cloudy	Small wave	IS12	Surface	1	1	1	15:33	19.4	7.74	27.2	6.66	9.18	12.1
TMCLKL	HY/2012/08	2017-02-02	Mid-Ebb	Cloudy	Small wave	IS12	Surface	1	1	2	15:33	19.3	7.72	27.2	6.71	9.13	12.7
TMCLKL	HY/2012/08	2017-02-02	Mid-Ebb	Cloudy	Small wave	IS12	Middle	6.5	2	1	15:33	19.4	7.83	27.3	6.53	9.03	12.3
TMCLKL	HY/2012/08	2017-02-02	Mid-Ebb	Cloudy	Small wave	IS12	-	6.5	2	2	15:33	19.4	7.8	27.2	6.59	8.94	11.7
TMCLKL	HY/2012/08	2017-02-02	Mid-Ebb	Cloudy		IS12	Bottom	12	3	1	15:33	19.4	7.91		6.82	9.37	12.7
TMCLKL	HY/2012/08	2017-02-02	Mid-Ebb	Cloudy		IS12	Bottom	12	3	2	15:33	19.5	7.93		6.9	9.32	12.3
TMCLKL	HY/2012/08	2017-02-02	Mid-Ebb	Cloudy	Small wave	IS13	Surface	1	1	1	15:51	19.4	7.74		6.67	9.06	12.5
TMCLKL	HY/2012/08	2017-02-02	Mid-Ebb	Cloudy	Small wave	IS13	Surface	1	1	2	15:51	19.3	7.72		6.73	9.12	12.4
TMCLKL	HY/2012/08	2017-02-02	Mid-Ebb	Cloudy	Small wave	IS13		5.6	2	1	15:51	19.4	7.81		6.78	8.91	12.5
TMCLKL	HY/2012/08	2017-02-02	Mid-Ebb	Cloudy	Small wave	IS13		5.6	2	2	15:51	19.4	7.78		6.84	8.87	12.5
TMCLKL	HY/2012/08	2017-02-02	Mid-Ebb	Cloudy		IS13	-	10.1	3	1	15:51	19.5	7.86		6.9	9.28	13
TMCLKL	HY/2012/08	2017-02-02	Mid-Ebb	Cloudy		IS13	-	10.1	3	2	15:51	19.5	7.83		6.95	9.32	12.7
TMCLKL	HY/2012/08	2017-02-02	Mid-Ebb	Cloudy		IS14	Surface	1	1	1	15:17	19.3	7.81		6.93	9.06	11.2
TMCLKL	HY/2012/08	2017-02-02	Mid-Ebb	Cloudy	Small wave	IS14	Surface	1	1	2	15:17	19.4	7.79		6.98	9.01	10.8
TMCLKL	HY/2012/08	2017-02-02	Mid-Ebb	Cloudy	Small wave	IS14		5.8	2	1	15:17	19.4	7.87		6.69	8.81	10.6
TMCLKL	HY/2012/08	2017-02-02	Mid-Ebb	Cloudy		IS14		5.8	2	2	15:17	19.4			6.61	8.77	10.8
			Mid-Ebb	Cloudy			Bottom		3	1		19.5			6.78	9.15	11.1
TMCLKL	HY/2012/08	2017-02-02	Mid-Ebb	Cloudy		IS14		10.5	3	2		19.4	7.9		6.83	9.21	11.1
TMCLKL	HY/2012/08	2017-02-02	Mid-Ebb	Cloudy		IS15	Surface	1	1	1	16:07	19.4			6.66	8.88	12.3
TMCLKL	HY/2012/08	2017-02-02	Mid-Ebb	Cloudy		IS15	Surface	1	1	2	16:07	19.4			6.71	8.94	12.3
TMCLKL	HY/2012/08	2017-02-02	Mid-Ebb	Cloudy		IS15	Middle	5	2	1	16:07	19.4			6.79	8.63	11.4
TMCLKL	HY/2012/08	2017-02-02	Mid-Ebb	Cloudy		IS15	Middle	5	2	2	16:07	19.3			6.84	8.69	12
TMCLKL	HY/2012/08	2017-02-02	Mid-Ebb	Cloudy		IS15		9	3	1	16:07	19.4	-		6.93	9.21	12.5
TMOLKL	HY/2012/08	2017-02-02	Mid-Ebb	Cloudy		IS15		9	3	2	16:07	19.5			6.99	9.17	12.5
TMCLKL	HY/2012/08	2017-02-02	Mid-Ebb	Cloudy		SR8	Surface	1	1	1	16:37	19.3			6.8	8.55	11.3
TMCLKL	HY/2012/08	2017-02-02	Mid-Ebb	Cloudy	Small wave	SR8	Surface	1	1	2	16:37	19.3	7.82		6.85	8.5	11.2
TMCLKL	HY/2012/08	2017-02-02	Mid-Ebb	Cloudy		SR8	Middle	1	2	1	16:37	13.5	1.02	21.2	0.00	0.0	
TMCLKL	HY/2012/08	2017-02-02	Mid-Ebb	Cloudy		SR8	Middle		2	2	16:37			ł			+
TMCLKL	HY/2012/08	2017-02-02	Mid-Ebb	Cloudy		SR8		4.5	2	1		19.2	7.79	27.3	6.94	8.76	11.7
TMCLKL	HY/2012/08	2017-02-02	Mid-Ebb	Cloudy		SR8	-	4.5 4.5	3	2	16:37	19.2	-		6.99	8.8	11.4
	HY/2012/08	2017-02-02	Mid-Ebb	Cloudy	Small wave	SR9	Surface	- <del>1</del> .5 1	1	1	16:23	19.3			6.7	8.79	11.4
	HY/2012/08	2017-02-02	Mid-Ebb	Cloudy		SR9 SR9	Surface	1	1	2	16:23	19.3			6.77 6.77	8.83	11.4
	HY/2012/08	2017-02-02	Mid-Ebb	Cloudy		SR9 SR9	Middle	·	2	1	16:23	13.4	1.01	<u> </u>	0.77	0.00	<del></del>
	HY/2012/08	2017-02-02	Mid-Ebb	Cloudy		SR9 SR9	Middle		2 2	2	16:23			<u> </u>		+	+
								2.2	2	<u>د</u> 1		10.4	7.78	27.2	6.86	0.11	116
	HY/2012/08	2017-02-02	Mid-Ebb Mid Ebb	Cloudy		SR9		3.3	3 2	2	16:23	19.4	7.78 7.8		6.86 6.9	9.11	11.6
	HY/2012/08	2017-02-02	Mid-Ebb	Cloudy		SR9		3.3	3 1	4	16:23	19.4			6.9 6.68	9.07	11.4 11
	HY/2012/08	2017-02-02	Mid-Ebb Mid Ebb	Cloudy		SR10A	Surface	1	1	2		19.3			6.73	8.72 8.78	
	HY/2012/08	2017-02-02	Mid-Ebb Mid Ebb	Cloudy	Small wave		Surface Middlo	1 7	2	<u>د</u> ۱		19.2	-				11.5
	HY/2012/08	2017-02-02	Mid-Ebb	Cloudy			Middle	/	2	1		19.3	-		6.85	8.63	11
	HY/2012/08	2017-02-02	Mid-Ebb	Cloudy			Middle	/	2	4		19.3			6.91 6.79	8.58	11.2
	HY/2012/08	2017-02-02	Mid-Ebb	Cloudy				13	ა ი			19.4			6.78	8.9	11.8
	HY/2012/08	2017-02-02	Mid-Ebb	Cloudy				13	3 1	2		19.3			6.82	8.95	11.7
	HY/2012/08	2017-02-04	Mid-Flood	Cloudy		CS4	Surface	1	1			18.8			6.82	8.77	12.4
	HY/2012/08	2017-02-04	Mid-Flood	Cloudy		CS4	Surface			2	13:37	18.8			6.85 6.76	8.74	12.4
			Mid-Flood	Cloudy				9.2	2	1	13:37		7.82		6.76	8.52	12.1
IMCLKL	HY/2012/08	2017-02-04	IVIId-Flood	Cloudy	Small wave	CS4	Middle	9.2	2	2	13:37	18.9	7.84	27	6.79	8.54	12.3

Project	Works	Date	Tide	Weather	Sea Condition	Stat	Level	Water Depth	Lev_Cod	Replicate	Time	Temp(°C)	рН	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)
TMCLKL	HY/2012/08	2017-02-04	Mid-Flood	Cloudy	Small wave	CS4	Bottom	17.4	3	1	13:37	18.9	7.93	27.1	6.46	8.98	12.6
TMCLKL	HY/2012/08	2017-02-04	Mid-Flood	Cloudy	Small wave	CS4	Bottom	17.4	3	2	13:37	18.8	7.97	27.2	6.48	9	12.7
TMCLKL	HY/2012/08	2017-02-04	Mid-Flood	Cloudy	Small wave	CS6	Surface	1	1	1	11:30	18.8	7.82	27.2	6.87	8.79	12.7
TMCLKL	HY/2012/08	2017-02-04	Mid-Flood	Cloudy	Small wave	CS6	Surface	1	1	2	11:30	18.9	7.84		6.9	8.82	13
TMCLKL	HY/2012/08	2017-02-04	Mid-Flood	Cloudy	Small wave	CS6		6.8	2	1	11:30	18.9	7.64		6.93	8.98	13.3
TMCLKL	HY/2012/08	2017-02-04	Mid-Flood	Cloudy	Small wave	CS6	Middle	6.8	2	2	11:30	19	7.67		6.95	8.95	13.1
TMCLKL	HY/2012/08	2017-02-04	Mid-Flood	Cloudy	Small wave	CS6	Bottom	12.6	3	1	11:30	19.1	7.71		6.84	9.28	13.5
TMCLKL	HY/2012/08	2017-02-04	Mid-Flood	Cloudy	Small wave	CS6	Bottom	12.6	3	2	11:30	19.1	7.74		6.8	9.32	13.6
TMCLKL	HY/2012/08	2017-02-04	Mid-Flood	Cloudy	Small wave	IS12	Surface	1	1	1	13:05	18.8	7.75		6.8	8.94	12.2
TMCLKL	HY/2012/08	2017-02-04	Mid-Flood	Cloudy	Small wave	IS12	Surface	1	1	2	13:05	18.7	7.79		6.83	8.96	12
TMCLKL	HY/2012/08	2017-02-04	Mid-Flood	Cloudy	Small wave	IS12		6.5	2	1	13:05	18.9	7.62		6.94	8.79	11.8
TMCLKL	HY/2012/08	2017-02-04	Mid-Flood	Cloudy	Small wave	IS12	Middle	6.5	2	2	13:05	18.9	7.64		6.97	8.84	11.6
	HY/2012/08	2017-02-04	Mid-Flood	Cloudy	Small wave	IS12 IS12	Bottom	12 12	3	1	13:05	18.7	7.86 7.82		6.81 6.85	9.17	12.3
TMCLKL TMCLKL	HY/2012/08 HY/2012/08	2017-02-04 2017-02-04	Mid-Flood Mid-Flood	Cloudy Cloudy	Small wave Small wave	IS12 IS13	Bottom Surface	12	3 1	2	13:05 12:49	18.8 18.7	7.02 7.74		6.84	9.2 8.9	12.5 12.2
TMCLKL	HY/2012/08	2017-02-04	Mid-Flood	Cloudy	Small wave	IS13 IS13	Surface	1	1	2	12:49	18.8	7.74		6.87	8.94	12.6
TMCLKL	HY/2012/08	2017-02-04	Mid-Flood	Cloudy	Small wave	IS13		5.8	2	1	12:49	18.9	7.69		6.93	8.63	11.7
TMCLKL	HY/2012/08	2017-02-04	Mid-Flood	Cloudy	Small wave	IS13	Middle	5.8	2	2	12:49	18.9	7.71		6.96	8.67	12.1
TMCLKL	HY/2012/08	2017-02-04	Mid-Flood	Cloudy	Small wave	IS13	Bottom	10.5	3	1	12:49	19	7.64		6.7	9.11	12.6
TMCLKL	HY/2012/08	2017-02-04	Mid-Flood	Cloudy	Small wave	IS13	Bottom	10.5	3	2	12:49	18.9	7.67		6.73	9.15	13
TMCLKL	HY/2012/08	2017-02-04	Mid-Flood	Cloudy	Small wave		Surface	1	1	1	13:20	18.7	7.72		6.74	8.88	10.7
TMCLKL	HY/2012/08	2017-02-04	Mid-Flood	Cloudy	Small wave	IS14	Surface	1	1	2	13:20	18.7	7.76		6.77	8.84	10.7
TMCLKL	HY/2012/08	2017-02-04	Mid-Flood	Cloudy	Small wave	IS14		5.9	2	1	13:20	18.8	7.86		6.85	8.72	11.2
TMCLKL	HY/2012/08	2017-02-04	Mid-Flood	Cloudy	Small wave	IS14	Middle	5.9	2	2	13:20	18.9	7.89		6.89	8.74	11
TMCLKL	HY/2012/08	2017-02-04	Mid-Flood	Cloudy	Small wave	IS14	Bottom	10.7	3	1	13:20	18.9	7.93		6.43	8.91	10.8
TMCLKL	HY/2012/08	2017-02-04	Mid-Flood	Cloudy	Small wave	IS14	Bottom	10.7	3	2	13:20	19	7.95		6.5	8.95	11.3
TMCLKL	HY/2012/08		Mid-Flood	Cloudy		IS15	Surface	1	1	1		18.7	7.65		6.82	8.75	11.5
TMCLKL	HY/2012/08	2017-02-04	Mid-Flood	Cloudy	Small wave	IS15	Surface	1	1	2	12:33	18.8			6.85	8.77	12.1
TMCLKL	HY/2012/08	2017-02-04	Mid-Flood	Cloudy	Small wave	IS15	Middle	5.1	2	1	12:33	18.8	7.85	27	6.77	8.52	11.4
TMCLKL	HY/2012/08	2017-02-04	Mid-Flood	Cloudy	Small wave	IS15	Middle	5.1	2	2	12:33	18.7	7.88	27.1	6.79	8.55	11.4
TMCLKL	HY/2012/08	2017-02-04	Mid-Flood	Cloudy	Small wave	IS15	Bottom	9.2	3	1	12:33	18.8	7.63	27.1	6.64	8.97	12
TMCLKL	HY/2012/08	2017-02-04	Mid-Flood	Cloudy	Small wave	IS15	Bottom	9.2	3	2	12:33	18.9	7.65	27.1	6.68	9	11.9
TMCLKL	HY/2012/08	2017-02-04	Mid-Flood	Cloudy	Small wave	SR8	Surface	1	1	1	12:02	18.9	7.67		6.92	8.46	11.1
TMCLKL	HY/2012/08	2017-02-04	Mid-Flood	Cloudy	Small wave	SR8	Surface	1	1	2	12:02	18.8	7.69	27.2	6.94	8.44	11.1
TMCLKL	HY/2012/08	2017-02-04	Mid-Flood	Cloudy	Small wave	SR8	Middle		2	1	12:02						
TMCLKL	HY/2012/08	2017-02-04	Mid-Flood	Cloudy	Small wave	SR8	Middle		2	2	12:02						
TMCLKL	HY/2012/08	2017-02-04	Mid-Flood	Cloudy	Small wave	SR8		4.9	3	1	12:02	18.9	7.81		6.83	8.72	11.1
TMCLKL	HY/2012/08	2017-02-04	Mid-Flood	Cloudy	Small wave	SR8		4.9	3	2	12:02	18.9	-		6.85	8.77	11.3
TMCLKL	HY/2012/08	2017-02-04	Mid-Flood	Cloudy		SR9	Surface	1	1	1		18.7	7.64		6.79	8.62	11.1
TMCLKL	HY/2012/08	2017-02-04	Mid-Flood	Cloudy	Small wave	SR9	Surface	1	1	2	12:17	18.7	7.67	27	6.82	8.64	10.9
TMCLKL	HY/2012/08	2017-02-04	Mid-Flood	Cloudy	Small wave	SR9	Middle		2	1	12:17						<b></b>
TMCLKL	HY/2012/08	2017-02-04	Mid-Flood	Cloudy	Small wave	SR9	Middle	0.0	2	2	12:17	40.0	7 70	07.4	0.70	0.00	
	HY/2012/08	2017-02-04	Mid-Flood	Cloudy	Small wave	SR9		3.8	3			18.8			6.76 6.78	8.92	11.1
	HY/2012/08	2017-02-04	Mid-Flood	Cloudy	Small wave	SR9		3.8	3	۲ ۱	12:17	18.8	-			8.95	11.5
	HY/2012/08	2017-02-04	Mid-Flood	Cloudy	Small wave		Surface	1	1	2	11:46	18.8			6.75 6.77	8.44	11.1
TMCLKL TMCLKL	HY/2012/08 HY/2012/08	2017-02-04 2017-02-04	Mid-Flood Mid-Flood	Cloudy Cloudy	Small wave	SR10A SR10A	Surface Middle	7.3	2	<u>د</u> 1	11:46 11:46	18.8 18.9	7.74 7.69		6.77 6.84	8.47 8.81	11.3 11.4
TMCLKL	HY/2012/08	2017-02-04	Mid-Flood	Cloudy	Small wave Small wave	SR10A SR10A	Middle	7.3 7.3	2	2	11:46	18.8			6.89	8.85	11.4
TMCLKL	HY/2012/08	2017-02-04	Mid-Flood	Cloudy	Small wave		Bottom	7.3 13.5	2	1	11:46	18.9	7.93		6.77	8.97	11.2
TMCLKL	HY/2012/08	2017-02-04	Mid-Flood	Cloudy	Small wave			13.5	3	2	11:40	19			6.72	9	11.4
TMCLKL	HY/2012/08	2017-02-04	Mid-Ebb	Cloudy	Small wave	CS4	Surface	1	1	1	17:23	18.6			6.74	9 8.89	12.7
TMCLKL	HY/2012/08	2017-02-04	Mid-Ebb	Cloudy			Surface	1	1	2	17:23	18.7			6.72	8.94	13.3
TMCLKL	HY/2012/08	2017-02-04	Mid-Ebb	Cloudy	Small wave	CS4	Middle	9	2	- 1	17:23	18.8	7.74		6.8	9.05	13.4
TMCLKL	HY/2012/08	2017-02-04	Mid-Ebb	Cloudy	Small wave	CS4	Middle	9	2	2	17:23	18.8			6.81	9.01	13.4
TMCLKL	HY/2012/08		Mid-Ebb	Cloudy				17	3	1		18.9	-		6.52	9.18	13.5
		2017-02-04		Cloudy	Small wave		Bottom		3	2	17:23		7.91		6.5	9.12	12.8

Project	Works	Date	Tide	Weather	Sea Condition	Stat	Level	Water Depth	Lev_Cod	Replicate	Time	Temp(°C)	рН	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)
TMCLKL	HY/2012/08	2017-02-04	Mid-Ebb	Cloudy	Small wave	CS6	Surface	1	1	1	19:05	18.7	7.69	27	6.65	8.74	13
TMCLKL	HY/2012/08	2017-02-04	Mid-Ebb	Cloudy	Small wave	CS6	Surface	1	1	2	19:05	18.6	7.72	26.9	6.68	8.79	12.9
TMCLKL	HY/2012/08	2017-02-04	Mid-Ebb	Cloudy	Small wave	CS6	Middle	6.6	2	1	19:05	18.7	7.85	27.1	6.75	9.03	13.3
TMCLKL	HY/2012/08	2017-02-04	Mid-Ebb	Cloudy	Small wave	CS6	Middle	6.6	2	2	19:05	18.8	7.83	27	6.76	9.09	13.3
TMCLKL	HY/2012/08	2017-02-04	Mid-Ebb	Cloudy	Small wave	CS6	Bottom	12.2	3	1	19:05	18.9	7.8	27.2	6.69	8.86	13.2
TMCLKL	HY/2012/08	2017-02-04	Mid-Ebb	Cloudy	Small wave	CS6	Bottom	12.2	3	2	19:05	19	7.77	27.2	6.71	8.91	12.7
TMCLKL	HY/2012/08	2017-02-04	Mid-Ebb	Cloudy	Small wave	IS12	Surface	1	1	1	17:49	18.7	7.81	26.5	6.54	8.61	11.6
TMCLKL	HY/2012/08	2017-02-04	Mid-Ebb	Cloudy	Small wave	IS12	Surface	1	1	2	17:49	18.6	7.83	26.6	6.5	8.67	11.8
TMCLKL	HY/2012/08	2017-02-04	Mid-Ebb	Cloudy	Small wave	IS12	Middle	6.3	2	1	17:49	18.8	7.89	26.7	6.71	8.75	12
TMCLKL	HY/2012/08	2017-02-04	Mid-Ebb	Cloudy	Small wave	IS12	Middle	6.3	2	2	17:49	18.8	7.86	26.6	6.72	8.82	12.1
TMCLKL	HY/2012/08	2017-02-04	Mid-Ebb	Cloudy	Small wave	IS12	Bottom	11.6	3	1	17:49	18.9	7.74	26.9	6.85	8.59	11.9
TMCLKL	HY/2012/08	2017-02-04	Mid-Ebb	Cloudy	Small wave	IS12	Bottom	11.6	3	2	17:49	18.8	7.73		6.86	8.65	11.5
TMCLKL	HY/2012/08	2017-02-04	Mid-Ebb	Cloudy	Small wave	IS13	Surface	1	1	1	18:01	18.6	7.63		6.72	9.01	12.7
TMCLKL	HY/2012/08	2017-02-04	Mid-Ebb	Cloudy	Small wave	IS13	Surface	1	1	2	18:01	18.7	7.67		6.73	9.07	12.4
TMCLKL	HY/2012/08	2017-02-04	Mid-Ebb	Cloudy	Small wave	IS13		5.7	2	1	18:01	18.7			6.8	8.72	12
TMCLKL	HY/2012/08	2017-02-04	Mid-Ebb	Cloudy	Small wave	IS13	Middle	5.7	2	2	18:01	18.6			6.81	8.79	12.3
TMCLKL	HY/2012/08	2017-02-04	Mid-Ebb	Cloudy	Small wave	IS13	Bottom	10.3	3	1	18:01	18.9			6.93	9.05	12.8
TMCLKL	HY/2012/08	2017-02-04	Mid-Ebb	Cloudy	Small wave	IS13	Bottom	10.3	3	2	18:01	18.8	7.79		6.94	8.97	12.1
TMCLKL	HY/2012/08	2017-02-04	Mid-Ebb	Cloudy	Small wave	IS14	Surface	10.0	1	1	17:36	18.7	7.74		6.68	8.43	10.4
TMCLKL	HY/2012/08	2017-02-04	Mid-Ebb	Cloudy	Small wave	IS14	Surface	1	1	2	17:36	18.6	7.7		6.65	8.49	10.5
TMCLKL	HY/2012/08	2017-02-04	Mid-Ebb	Cloudy	Small wave	IS14		5.7	2	1	17:36	18.7	7.8		6.52	9.02	11.3
TMCLKL	HY/2012/08	2017-02-04	Mid-Ebb	Cloudy	Small wave	IS14 IS14		5.7 5.7	2	2	17:36	18.7	7.83		6.53	9.08	11.5
TMCLKL	HY/2012/08	2017-02-04	Mid-Ebb	Cloudy	Small wave	IS14 IS14	Bottom	10.4	2	۲ ۱	17:36	18.8	7.75		6.74	8.87	11.5
TMCLKL	HY/2012/08		Mid-Ebb			IS14 IS14			<u>ა</u>	1	17:36		7.77		6.7 6.7		11.1
TMCLKL		2017-02-04		Cloudy	Small wave		Bottom	10.4	ა 1	<u>ک</u>		18.7				8.94	
	HY/2012/08	2017-02-04	Mid-Ebb	Cloudy	Small wave	IS15	Surface	1	1	1	18:14	18.7	7.78		6.52	8.83	12.2
TMCLKL	HY/2012/08	2017-02-04	Mid-Ebb	Cloudy	Small wave	IS15	Surface	1	1	2	18:14	18.6			6.54	8.89	12.1
TMCLKL	HY/2012/08		Mid-Ebb	Cloudy		IS15		4.9	2	1	18:14				6.48	9.1	12.5
TMCLKL	HY/2012/08	2017-02-04	Mid-Ebb	Cloudy		IS15		4.9	2	2		18.8			6.47	9.02	12.2
TMCLKL	HY/2012/08	2017-02-04	Mid-Ebb	Cloudy		IS15		8.8	3	1	18:14	18.9			6.67	8.76	12
TMCLKL	HY/2012/08	2017-02-04	Mid-Ebb	Cloudy		IS15		8.8	3	2	18:14	18.8			6.69	8.81	12
TMCLKL	HY/2012/08	2017-02-04	Mid-Ebb	Cloudy	Small wave	SR8	Surface	1	1	1	18:37	18.7			6.77	8.58	10.9
TMCLKL	HY/2012/08	2017-02-04	Mid-Ebb	Cloudy		SR8	Surface	1	1	2	18:37	18.6	7.76	26.9	6.78	8.63	11.2
TMCLKL	HY/2012/08	2017-02-04	Mid-Ebb	Cloudy		SR8	Middle		2	1	18:37						
TMCLKL	HY/2012/08	2017-02-04	Mid-Ebb	Cloudy		SR8	Middle		2	2	18:37						
TMCLKL	HY/2012/08	2017-02-04	Mid-Ebb	Cloudy		SR8		4.4	3	1	18:37	18.7			6.51	8.89	11.4
TMCLKL	HY/2012/08	2017-02-04	Mid-Ebb	Cloudy		SR8		4.4	3	2	18:37	18.7			6.52	8.81	11.4
TMCLKL	HY/2012/08	2017-02-04	Mid-Ebb	Cloudy	Small wave	SR9	Surface	1	1	1	18:26	18.6	7.75		6.64	8.84	11.1
TMCLKL	HY/2012/08	2017-02-04	Mid-Ebb	Cloudy	Small wave	SR9	Surface	1	1	2	18:26	18.6	7.7	26.9	6.66	8.88	11.2
TMCLKL	HY/2012/08	2017-02-04	Mid-Ebb	Cloudy	Small wave	SR9	Middle		2	1	18:26						
TMCLKL	HY/2012/08	2017-02-04	Mid-Ebb	Cloudy	Small wave	SR9	Middle		2	2	18:26						
TMCLKL	HY/2012/08	2017-02-04	Mid-Ebb	Cloudy	Small wave	SR9	Bottom	3.6	3	1	18:26	18.7	7.67	27	6.72	8.67	10.9
TMCLKL	HY/2012/08	2017-02-04	Mid-Ebb	Cloudy	Small wave	SR9	Bottom	3.6	3	2	18:26	18.6	7.66	27	6.69	8.76	11
TMCLKL	HY/2012/08	2017-02-04	Mid-Ebb	Cloudy	Small wave	SR10A	Surface	1	1	1	18:49	18.6	7.8	26.9	6.72	8.72	11.2
TMCLKL	HY/2012/08	2017-02-04	Mid-Ebb	Cloudy	Small wave	SR10A	Surface	1	1	2	18:49	18.7			6.73	8.76	11.4
TMCLKL	HY/2012/08	2017-02-04	Mid-Ebb	Cloudy		SR10A	Middle	7.1	2	1	18:49	18.8			6.64	8.64	11.1
TMCLKL	HY/2012/08	2017-02-04	Mid-Ebb	Cloudy			Middle	7.1	2	2	18:49	18.7			6.61	8.57	11.3
TMCLKL	HY/2012/08	2017-02-04	Mid-Ebb	Cloudy	Small wave	SR10A	Bottom	13.2	3	1	18:49	18.9			6.58	9.11	12
TMCLKL	HY/2012/08	2017-02-04	Mid-Ebb	Cloudy	Small wave	SR10A	Bottom	13.2	3	2	18:49	18.9			6.56	9.18	11.5
TMCLKL	HY/2012/08	2017-02-07	Mid-Flood	Cloudy		CS4	Surface	1	1	1	15:58	18.4			7.14	7.44	10.8
TMCLKL	HY/2012/08	2017-02-07	Mid-Flood	Cloudy		CS4	Surface	1	1	2	15:58	18.4	7.97		7.17	7.48	10.6
TMCLKL	HY/2012/08	2017-02-07	Mid-Flood	Cloudy		CS4		8.8	2	1	15:58	18.5			7.32	7.59	10.8
TMCLKL	HY/2012/08	2017-02-07	Mid-Flood	Cloudy		CS4		8.8	2	2	15:58	18.6			7.35	7.62	10.9
TMCLKL	HY/2012/08	2017-02-07	Mid-Flood	Cloudy		CS4 CS4	Bottom	16.6	<u>-</u> 3	1	15:58	18.7	8		7.49	7.73	11.2
TMCLKL	HY/2012/08	2017-02-07	Mid-Flood	Cloudy		CS4 CS4	Bottom	16.6	3	2	15:58	18.8			7.51	7.75	11.2
TMCLKL	HY/2012/08		Mid-Flood	Cloudy			Surface	10.0	1	<u>د</u> 1		18.3	o.03 7.95		7.85	7.45	10.9
		2017-02-07			Small wave			1	1	2							10.9
	HY/2012/08	2017-02-07	IVIIU-F1000	Cloudy	Small wave	630	Surface	1	1	2	13:36	10.4	7.98	20.9	7.88	7.48	11.2

Project	Works	Date	Tide	Weather	Sea Condition	Stat	Level	Water Depth	Lev_Cod	Replicate	Time	Temp(°C)	рН	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)
TMCLKL	HY/2012/08	2017-02-07	Mid-Flood	Cloudy	Small wave	CS6	Middle	6.8	2	1	13:36	18.5	8.04	27	7.94	7.69	11.2
TMCLKL	HY/2012/08	2017-02-07	Mid-Flood	Cloudy	Small wave	CS6	Middle	6.8	2	2	13:36	18.6	8.06	27.1	7.97	7.71	11
TMCLKL	HY/2012/08	2017-02-07	Mid-Flood	Cloudy	Small wave	CS6	Bottom	12.5	3	1	13:36	18.7	8.13	27.2	8.07	7.88	11.4
TMCLKL	HY/2012/08	2017-02-07	Mid-Flood	Cloudy	Small wave	CS6	Bottom	12.5	3	2	13:36	18.6	8.17	27.3	8.09	7.91	11.8
TMCLKL	HY/2012/08	2017-02-07	Mid-Flood	Cloudy	Small wave	IS12	Surface	1	1	1	15:32	18.4	7.86	26.8	6.84	8.05	10.9
TMCLKL	HY/2012/08	2017-02-07	Mid-Flood	Cloudy	Small wave	IS12	Surface	1	1	2	15:32	18.5	7.88	26.9	6.87	8.08	10.6
TMCLKL	HY/2012/08	2017-02-07	Mid-Flood	Cloudy	Small wave	IS12	Middle	6.5	2	1	15:32	18.6	7.94	27	7.05	8.14	11.1
TMCLKL	HY/2012/08	2017-02-07	Mid-Flood	Cloudy	Small wave	IS12	Middle	6.5	2	2	15:32	18.7	7.96	27.1	7.08	8.17	11
TMCLKL	HY/2012/08	2017-02-07	Mid-Flood	Cloudy	Small wave	IS12	Bottom	11.9	3	1	15:32	18.8	8.04	27.2	7.14	8.3	11
TMCLKL	HY/2012/08	2017-02-07	Mid-Flood	Cloudy	Small wave	IS12	Bottom	11.9	3	2	15:32	18.7	8.07	27.3	7.17	8.33	11.2
TMCLKL	HY/2012/08	2017-02-07	Mid-Flood	Cloudy	Small wave	IS13	Surface	1	1	1	15:15	18.4	7.98	27.1	7.15	7.28	10.2
TMCLKL	HY/2012/08	2017-02-07	Mid-Flood	Cloudy	Small wave	IS13	Surface	1	1	2	15:15	18.4	7.9	27.2	7.18	7.31	10.1
TMCLKL	HY/2012/08	2017-02-07	Mid-Flood	Cloudy	Small wave	IS13	Middle	5.6	2	1	15:15	18.5	8.13		7.29	7.47	10.6
TMCLKL	HY/2012/08	2017-02-07	Mid-Flood	Cloudy	Small wave	IS13	Middle	5.6	2	2	15:15	18.6	8.15		7.32	7.49	10.6
TMCLKL	HY/2012/08	2017-02-07	Mid-Flood	Cloudy	Small wave	IS13	Bottom	10.1	3	1	15:15	18.7			7.44	7.55	10.7
TMCLKL	HY/2012/08	2017-02-07	Mid-Flood	Cloudy	Small wave	IS13	Bottom	10.1	3	2	15:15	18.8			7.47	7.59	10.6
TMCLKL	HY/2012/08	2017-02-07	Mid-Flood	Cloudy	Small wave	IS14	Surface	1	1	1	15:46	18.4	8.14		7.08	7.86	10.1
TMCLKL	HY/2012/08	2017-02-07	Mid-Flood	Cloudy	Small wave	IS14	Surface	1	1	2	15:46	18.5			7.11	7.89	9.7
TMCLKL	HY/2012/08	2017-02-07	Mid-Flood	Cloudy	Small wave	IS14		5.7	2	1	15:46	18.6	8.3		7.25	7.94	9.6
TMCLKL	HY/2012/08	2017-02-07	Mid-Flood	Cloudy	Small wave	IS14		5.7	2	2	15:46	18.6	8.33		7.28	7.97	9.9
TMCLKL	HY/2012/08	2017-02-07	Mid-Flood	Cloudy	Small wave	IS14	Bottom	10.4	3	1	15:46	18.7			7.44	8.12	9.8
TMCLKL	HY/2012/08	2017-02-07	Mid-Flood	Cloudy	Small wave	IS14	Bottom	10.4	3	2	15:46	18.8			7.41	8.15	9.9
TMCLKL	HY/2012/08	2017-02-07	Mid-Flood	Cloudy	Small wave	IS15	Surface	10.4	1	1	14:55	18.4			6.95	7.45	9.8
TMCLKL	HY/2012/08	2017-02-07	Mid-Flood	Cloudy	Small wave	IS15	Surface	1	1	2	14:55	18.5	8.17		6.98	7.48	10.1
TMCLKL	HY/2012/08	2017-02-07	Mid-Flood	Cloudy	Small wave	IS15 IS15	Middle	4.9	2	1	14:55	18.5	7.95	27.1	7.1	7.55	10.5
TMCLKL	HY/2012/08	2017-02-07	Mid-Flood	Cloudy	Small wave	IS15 IS15	Middle	4.9 4.9	2	2	14:55	18.6			7.13	7.58	10.5
	HY/2012/08		Mid-Flood	Cloudy			-	4.9 8.7	2	2		18.7			7.38	7.65	10.3
							-	-	ა ა	2	1						
	HY/2012/08	2017-02-07	Mid-Flood	Cloudy	Small wave	IS15		8.7	3	4	14:55	18.8			7.41	7.67	10.3
	HY/2012/08	2017-02-07	Mid-Flood	Cloudy		SR8	Surface	1	1		14:25	18.5			7.48	6.99	8.9
	HY/2012/08	2017-02-07	Mid-Flood	Cloudy		SR8	Surface		1	2	14:25	18.6	7.95	27.1	7.51	7.01	9.3
	HY/2012/08	2017-02-07	Mid-Flood	Cloudy	Small wave	SR8	Middle		2		14:25						
	HY/2012/08	2017-02-07	Mid-Flood	Cloudy		SR8	Middle	4.0	2	2	14:25	10.7	0.40	07.0	7.00	7 4 4	
	HY/2012/08	2017-02-07	Mid-Flood	Cloudy		SR8	-	4.6	3	1		18.7			7.66	7.14	9
TMCLKL	HY/2012/08	2017-02-07	Mid-Flood	Cloudy		SR8		4.6	3	2		18.6			7.63	7.17	9.5
TMCLKL	HY/2012/08	2017-02-07	Mid-Flood	Cloudy		SR9	Surface	1	1	1	14:40	18.3		26.9	/	7.69	9.6
TMCLKL	HY/2012/08	2017-02-07	Mid-Flood	Cloudy	Small wave	SR9	Surface	1	1	2	14:40	18.4	7.88	26.9	7.02	7.71	9.7
TMCLKL	HY/2012/08	2017-02-07	Mid-Flood	Cloudy		SR9	Middle		2	1	14:40						┥───
TMCLKL	HY/2012/08	2017-02-07	Mid-Flood	Cloudy		SR9	Middle		2	2	14:40						<u> </u>
TMCLKL	HY/2012/08	2017-02-07	Mid-Flood	Cloudy		SR9	-	3.3	3	1	1	18.5			7.14	7.84	9.9
TMCLKL	HY/2012/08	2017-02-07	Mid-Flood	Cloudy	Small wave	SR9		3.3	3	2	14:40	18.5			7.12	7.87	10.2
TMCLKL	HY/2012/08	2017-02-07	Mid-Flood	Cloudy	Small wave	SR10A	Surface	1	1	1	14:03	18.4			7.36	7.25	9.3
TMCLKL	HY/2012/08	2017-02-07	Mid-Flood	Cloudy	Small wave		Surface	1	1	2	14:03	18.5			7.39	7.23	9.4
TMCLKL	HY/2012/08	2017-02-07	Mid-Flood	Cloudy	Small wave	SR10A		6.9	2	1	14:03	18.6			7.45	7.36	9.8
TMCLKL	HY/2012/08	2017-02-07	Mid-Flood	Cloudy	Small wave	SR10A		6.9	2	2	14:03	18.6			7.47	7.39	9.6
TMCLKL	HY/2012/08	2017-02-07	Mid-Flood	Cloudy	Small wave		Bottom	12.7	3	1	14:03	18.7			7.59	7.55	9.8
TMCLKL	HY/2012/08	2017-02-07	Mid-Flood	Cloudy	Small wave		Bottom	12.7	3	2	-	18.8			7.62	7.59	10
TMCLKL	HY/2012/08	2017-02-07	Mid-Ebb	Cloudy	Small wave	CS4	Surface	1	1	1	09:15	18		26.4	6.59	8.91	12.5
TMCLKL	HY/2012/08	2017-02-07	Mid-Ebb	Cloudy	Small wave	CS4	Surface	1	1	2		17.9			6.63	8.98	12.9
TMCLKL	HY/2012/08	2017-02-07	Mid-Ebb	Cloudy	Small wave	CS4		8.7	2	1	09:15	18	7.8		6.55	8.73	12.4
TMCLKL	HY/2012/08	2017-02-07	Mid-Ebb	Cloudy	Small wave	CS4	Middle	8.7	2	2	09:15	18.1			6.51	8.8	12.8
TMCLKL	HY/2012/08	2017-02-07	Mid-Ebb	Cloudy	Small wave	CS4	Bottom	16.4	3	1	09:15	18.2	7.89	26.7	6.39	9.15	13.3
TMCLKL	HY/2012/08	2017-02-07	Mid-Ebb	Cloudy	Small wave	CS4	Bottom	16.4	3	2	09:15	18.2	7.82	26.6	6.41	9.22	13.2
TMCLKL	HY/2012/08	2017-02-07	Mid-Ebb	Cloudy	Small wave	CS6	Surface	1	1	1	11:33	18.4	7.85	26.8	6.75	9	13.3
TMCLKL	HY/2012/08	2017-02-07	Mid-Ebb	Cloudy	Small wave	CS6	Surface	1	1	2	11:33	18.5			6.79	8.95	12.9
	HY/2012/08	2017-02-07	Mid-Ebb	Cloudy			Middle	6.6	2	1		18.5			6.84	9.22	13.4
		2017-02-07		Cloudy	Small wave		Middle		2	2	11:33		7.86		6.81	9.29	13.9

Project	Works	Date	Tide	Weather	Sea Condition	Stat	Level	Water Depth	Lev_Cod	Replicate	Time	Temp(°C)	рН	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)
TMCLKL	HY/2012/08	2017-02-07	Mid-Ebb	Cloudy	Small wave	CS6	Bottom	12.2	3	1	11:33	18.6	7.82	27.1	6.68	9.6	14
TMCLKL	HY/2012/08	2017-02-07	Mid-Ebb	Cloudy	Small wave	CS6	Bottom	12.2	3	2	11:33	18.7	7.87	27.2	6.65	9.72	14.1
TMCLKL	HY/2012/08	2017-02-07	Mid-Ebb	Cloudy	Small wave	IS12	Surface	1	1	1	09:49	17.8	7.76	26.7	6.64	9.19	12.3
TMCLKL	HY/2012/08	2017-02-07	Mid-Ebb	Cloudy	Small wave	IS12	Surface	1	1	2	09:49	17.9	7.79	26.6	6.61	9.13	12.6
TMCLKL	HY/2012/08	2017-02-07	Mid-Ebb	Cloudy	Small wave	IS12	Middle	6.3	2	1	09:49	17.9	7.8	26.8	6.66	9.05	12.3
TMCLKL	HY/2012/08	2017-02-07	Mid-Ebb	Cloudy	Small wave	IS12	Middle	6.3	2	2	09:49	18	7.76	26.9	6.7	9.09	11.9
TMCLKL	HY/2012/08	2017-02-07	Mid-Ebb	Cloudy	Small wave	IS12	Bottom	11.6	3	1	09:49	18	7.79	27	6.49	9.4	12.4
TMCLKL	HY/2012/08	2017-02-07	Mid-Ebb	Cloudy	Small wave	IS12	Bottom	11.6	3	2	09:49	18.1	7.82	26.9	6.46	9.46	12.6
TMCLKL	HY/2012/08	2017-02-07	Mid-Ebb	Cloudy	Small wave	IS13	Surface	1	1	1	10:06	18	7.8	26.6	6.79	9.1	12.5
TMCLKL	HY/2012/08	2017-02-07	Mid-Ebb	Cloudy	Small wave	IS13	Surface	1	1	2	10:06	17.9	7.85		6.75	9.01	12.2
TMCLKL	HY/2012/08	2017-02-07	Mid-Ebb	Cloudy		IS13		5.4	2	1	10:06	18.1	7.82		6.7	8.81	12.5
TMCLKL	HY/2012/08	2017-02-07	Mid-Ebb	Cloudy		IS13	Middle	5.4	2	2	10:06	18.2	7.86		6.66	8.87	12.2
TMCLKL	HY/2012/08	2017-02-07	Mid-Ebb	Cloudy	Small wave	IS13		9.8	3	1	10:06	18.2			6.7	9.31	12.5
TMCLKL	HY/2012/08	2017-02-07	Mid-Ebb	Cloudy	Small wave	IS13		9.8	3	2	10:06	18.3			6.72	9.37	12.8
TMCLKL	HY/2012/08	2017-02-07	Mid-Ebb	Cloudy	Small wave	IS14	Surface	1	1	1	09:32	18.1	7.8		6.65	9.09	11.2
TMCLKL	HY/2012/08	2017-02-07	Mid-Ebb	Cloudy			Surface	1	1	2	09:32	18.1			6.62	9.01	11.2
TMCLKL	HY/2012/08	2017-02-07	Mid-Ebb	Cloudy		IS14		5.5	2	1	09:32	18.2	7.79		6.6	8.76	10.5
TMCLKL	HY/2012/08	2017-02-07	Mid-Ebb	Cloudy		IS14	Middle	5.5	2	2	09:32	18.1			6.57	8.82	10.9
TMCLKL	HY/2012/08	2017-02-07	Mid-Ebb	Cloudy	Small wave	IS14	Bottom	10	2	1	09:32	18.2	7.82		6.44	9.19	11.7
	HY/2012/08	2017-02-07	Mid-Ebb	Cloudy	Small wave	IS14 IS14	Bottom	10	3	2	09:32	18.3			6.42	9.19	11.7
TMCLKL	HY/2012/08	2017-02-07	Mid-Ebb	Cloudy	Small wave	IS14 IS15	Surface	10	J 1	1	10:23	18.1			6.64	9	11.9
TMCLKL	HY/2012/08	2017-02-07	Mid-Ebb	Cloudy		IS15 IS15	Surface	1	1	2	10:23	18.1			6.61	8.93	11.8
TMCLKL	HY/2012/08	2017-02-07				IS15 IS15		1	2	۲ ۱	10:23		7.75		6.67		12.1
			Mid-Ebb	Cloudy	Small wave			4.7	2			18.2				8.7	
	HY/2012/08	2017-02-07	Mid-Ebb	Cloudy	Small wave	IS15	Middle	4.7	2	2	10:23	18.1			6.7	8.76	11.8
TMCLKL	HY/2012/08	2017-02-07	Mid-Ebb	Cloudy	Small wave	IS15		8.4	3	1	10:23	18.3			6.56	9.18	12.1
TMCLKL	HY/2012/08	2017-02-07	Mid-Ebb	Cloudy	Small wave	IS15		8.4	3	2	10:23	18.4	7.81		6.52	9.29	12.5
			Mid-Ebb	Cloudy			Surface	1	1	1		18.4			6.78	8.55	10.7
TMCLKL	HY/2012/08	2017-02-07	Mid-Ebb	Cloudy		SR8	Surface	1	1	2	10:57	18.3	7.75	26.7	6.75	8.61	11.3
	HY/2012/08	2017-02-07	Mid-Ebb	Cloudy		SR8	Middle		2	1	10:57						
TMCLKL	HY/2012/08	2017-02-07	Mid-Ebb	Cloudy		SR8	Middle		2	2	10:57						
TMCLKL	HY/2012/08	2017-02-07	Mid-Ebb	Cloudy	Small wave	SR8		4.2	3	1	10:57	18.4			6.57	8.82	11.2
	HY/2012/08	2017-02-07	Mid-Ebb	Cloudy		SR8		4.2	3	2	10:57	18.5			6.6	8.9	11.7
TMCLKL	HY/2012/08	2017-02-07	Mid-Ebb	Cloudy		SR9	Surface	1	1	1	10:40	18.2			6.68	8.8	11.2
TMCLKL	HY/2012/08	2017-02-07	Mid-Ebb	Cloudy		SR9	Surface	1	1	2	10:40	18.3	7.72	26.7	6.65	8.91	11.7
TMCLKL	HY/2012/08	2017-02-07	Mid-Ebb	Cloudy	Small wave	SR9	Middle		2	1	10:40						
TMCLKL	HY/2012/08	2017-02-07	Mid-Ebb	Cloudy	Small wave	SR9	Middle		2	2	10:40						
TMCLKL	HY/2012/08	2017-02-07	Mid-Ebb	Cloudy	Small wave	SR9	Bottom	3	3	1	10:40	18.4	7.75	26.8	6.57	9.1	11.7
TMCLKL	HY/2012/08	2017-02-07	Mid-Ebb	Cloudy	Small wave	SR9	Bottom	3	3	2	10:40	18.5	7.7	26.9	6.61	9.18	11.6
TMCLKL	HY/2012/08	2017-02-07	Mid-Ebb	Cloudy	Small wave	SR10A	Surface	1	1	1	11:14	18.2	7.81	26.7	6.66	8.74	11
TMCLKL	HY/2012/08	2017-02-07	Mid-Ebb	Cloudy	Small wave	SR10A	Surface	1	1	2	11:14	18.3	7.84	26.8	6.69	8.8	11.5
TMCLKL	HY/2012/08	2017-02-07	Mid-Ebb	Cloudy	Small wave	SR10A	Middle	6.7	2	1	11:14	18.3			6.72	8.98	11.6
TMCLKL	HY/2012/08	2017-02-07	Mid-Ebb	Cloudy	Small wave	SR10A	Middle	6.7	2	2	11:14	18.4			6.74	9.05	12.1
TMCLKL	HY/2012/08	2017-02-07	Mid-Ebb	Cloudy	Small wave		Bottom	12.4	3	1	11:14	18.5			6.61	9.3	11.9
TMCLKL	HY/2012/08	2017-02-07	Mid-Ebb	Cloudy		SR10A	Bottom	12.4	3	2	11:14	18.6			6.58	9.37	12.2
TMCLKL	HY/2012/08	2017-02-09	Mid-Flood	Cloudy		CS4	Surface	1	1	1		17.5			6.32	9.09	12.6
	HY/2012/08	2017-02-09	Mid-Flood	Cloudy		CS4	Surface	1	1	2		17.6			6.36	9.13	13.1
TMCLKL	HY/2012/08	2017-02-09	Mid-Flood	Cloudy		CS4		8.6	2	1	11:15	17.6			6.72	9.21	12.3
TMCLKL	HY/2012/08	2017-02-09	Mid-Flood	Cloudy		CS4	Middle	8.6	2	2	11:15	17.6			6.75	9.23	12.3
TMCLKL	HY/2012/08	2017-02-09	Mid-Flood	Cloudy		CS4	Bottom	16.2	3	1	11:15	17.6			6.88	9.38	13
TMCLKL	HY/2012/08	2017-02-09	Mid-Flood	Cloudy		CS4	Bottom	16.2	3	2		17.7			6.8	9.35	13.1
TMCLKL	HY/2012/08	2017-02-09	Mid-Flood	Cloudy		CS6	Surface	1	1	1		17.6			6.79	9.37	13.4
TMCLKL	HY/2012/08	2017-02-09	Mid-Flood	Cloudy			Surface	1	1	2	13:24	17.0			6.76	9.33	12.9
TMCLKL	HY/2012/08	2017-02-09	Mid-Flood	Cloudy		CS6		6.5	2	1	13:24	17.7			6.63	9.26	13.4
TMCLKL	HY/2012/08	2017-02-09	Mid-Flood	Cloudy		CS6		0.5 6.5	2	2	13:24	17.7			6.65	9.24	13.4
			Mid-Flood	Cloudy				6.5 12	2	<u>-</u> 1	13:24				6.88	9.64	13.8
									3 2	1 2							
	HY/2012/08	2017-02-09	IVIIU-F1000	Cloudy	Small wave	630	Bottom	12	3	2	13:24	0.11	7.74	20.Ö	6.89	9.66	13.8

Project	Works	Date	Tide	Weather	Sea Condition	Stat	Level	Water Depth	Lev_Cod	Replicate	Time	Temp(°C)	рН	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)
TMCLKL	HY/2012/08	2017-02-09	Mid-Flood	Cloudy	Small wave	IS12	Surface	1	1	1	11:49	17.6	7.74	26.3	6.56	9.26	12.6
TMCLKL	HY/2012/08	2017-02-09	Mid-Flood	Cloudy	Small wave	IS12	Surface	1	1	2	11:49	17.7	7.75	26.4	6.58	9.28	12.1
TMCLKL	HY/2012/08	2017-02-09	Mid-Flood	Cloudy	Small wave	IS12	Middle	6	2	1	11:49	17.7	7.6		6.83	9.47	12.2
TMCLKL	HY/2012/08	2017-02-09	Mid-Flood	Cloudy	Small wave	IS12	Middle	6	2	2	11:49	17.8	7.58		6.84	9.48	12.2
TMCLKL	HY/2012/08	2017-02-09	Mid-Flood	Cloudy	Small wave	IS12	Bottom	11	3	1	11:49	17.8	7.43		6.69	9.5	12.4
TMCLKL	HY/2012/08	2017-02-09	Mid-Flood	Cloudy	Small wave	IS12	Bottom	11	3	2	11:49	17.8	7.44	26.7	6.65	9.49	12.9
TMCLKL	HY/2012/08	2017-02-09	Mid-Flood	Cloudy	Small wave	IS13	Surface	1	1	1	12:03	17.6	7.5		6.58	9	12.3
TMCLKL	HY/2012/08	2017-02-09	Mid-Flood	Cloudy	Small wave	IS13	Surface	1	1	2	12:03	17.7	7.51		6.6	9.03	12.5
TMCLKL	HY/2012/08	2017-02-09	Mid-Flood	Cloudy	Small wave	IS13	Middle	5.4	2	1	12:03	17.6	7.62		6.71	9.12	12.1
TMCLKL	HY/2012/08	2017-02-09	Mid-Flood	Cloudy	Small wave	IS13	Middle	5.4	2	2	12:03	17.6	7.64	26.5	6.7	9.13	12.2
TMCLKL	HY/2012/08	2017-02-09	Mid-Flood	Cloudy	Small wave	IS13	Bottom	9.8	3	1	12:03	17.6	7.78	26.6	6.83	9.36	12.5
TMCLKL	HY/2012/08	2017-02-09	Mid-Flood	Cloudy	Small wave	IS13	Bottom	9.8	3	2	12:03	17.6	7.77	26.7	6.84	9.37	12.7
TMCLKL	HY/2012/08	2017-02-09	Mid-Flood	Cloudy	Small wave	IS14	Surface	1	1	1	11:32	17.6	7.64	26.4	6.41	9.34	11.2
TMCLKL	HY/2012/08	2017-02-09	Mid-Flood	Cloudy	Small wave	IS14	Surface	1	1	2	11:32	17.6	7.65	26.4	6.38	9.35	11.2
TMCLKL	HY/2012/08	2017-02-09	Mid-Flood	Cloudy	Small wave	IS14	Middle	5.5	2	1	11:32	17.6	7.77	26.5	6.57	9.88	11
TMCLKL	HY/2012/08	2017-02-09	Mid-Flood	Cloudy	Small wave	IS14	Middle	5.5	2	2	11:32	17.7	7.76	26.6	6.59	9.9	10.7
TMCLKL	HY/2012/08	2017-02-09	Mid-Flood	Cloudy	Small wave	IS14	Bottom	10	3	1	11:32	17.7	7.8	26.6	6.3	9.55	11.1
TMCLKL	HY/2012/08	2017-02-09	Mid-Flood	Cloudy	Small wave	IS14	Bottom	10	3	2	11:32	17.8	7.76	26.7	6.26	9.53	11.1
TMCLKL	HY/2012/08	2017-02-09	Mid-Flood	Cloudy	Small wave	IS15	Surface	1	1	1	12:19	17.7	7.6	26.4	6.45	9.26	11.8
TMCLKL	HY/2012/08	2017-02-09	Mid-Flood	Cloudy	Small wave	IS15	Surface	1	1	2	12:19	17.8	7.58		6.55	9.27	11.7
TMCLKL	HY/2012/08	2017-02-09	Mid-Flood	Cloudy	Small wave	IS15	Middle	4.7	2	1	12:19	17.6	7.72	26.4	6.82	9.33	12
TMCLKL	HY/2012/08	2017-02-09	Mid-Flood	Cloudy	Small wave	IS15	Middle	4.7	2	2	12:19	17.6	7.74	26.5	6.86	9.35	11.4
TMCLKL	HY/2012/08	2017-02-09	Mid-Flood	Cloudy	Small wave	IS15	Bottom	8.3	3	1	12:19	17.6	7.85		6.9	9.46	12.3
TMCLKL	HY/2012/08	2017-02-09	Mid-Flood	Cloudy	Small wave	IS15	Bottom	8.3	3	2	12:19	17.7	7.86	26.8	6.93	9.48	12.5
TMCLKL	HY/2012/08	2017-02-09	Mid-Flood	Cloudy	Small wave	SR8	Surface	1	1	1	12:46	17.5	7.68		6.44	9.02	11.2
TMCLKL	HY/2012/08	2017-02-09	Mid-Flood	Cloudy	Small wave	SR8	Surface	1	1	2	12:46	17.6	7.69		6.4	9.05	10.9
TMCLKL	HY/2012/08	2017-02-09	Mid-Flood	Cloudy		SR8	Middle		2	1	12:46						
TMCLKL	HY/2012/08	2017-02-09	Mid-Flood	Cloudy		SR8	Middle		2	2	12:46						
TMCLKL	HY/2012/08	2017-02-09	Mid-Flood	Cloudy		SR8		3.9	3	1		17.6	7.91	26.6	6.72	9.24	11.5
TMCLKL	HY/2012/08	2017-02-09	Mid-Flood	Cloudy		SR8		3.9	3	2	12:46	17.6	7.94		6.74	9.29	11.3
TMCLKL	HY/2012/08	2017-02-09	Mid-Flood	Cloudy	Small wave	SR9	Surface	1	1	1	12:34	17.6	7.57	26.5	6.29	9.25	11.4
TMCLKL	HY/2012/08	2017-02-09	Mid-Flood	Cloudy		SR9	Surface	1	1	2	12:34	17.7			6.32	9.28	11.2
TMCLKL	HY/2012/08	2017-02-09	Mid-Flood	Cloudy	Small wave	SR9	Middle	-	2	1	12:34						1
TMCLKL	HY/2012/08	2017-02-09	Mid-Flood	Cloudy		SR9	Middle		2	2	12:34						
TMCLKL	HY/2012/08	2017-02-09	Mid-Flood	Cloudy		SR9		3.1	3	1	12:34	17.8	7.83	26.6	6.14	9.55	11.2
TMCLKL	HY/2012/08	2017-02-09	Mid-Flood	Cloudy	Small wave	SR9	Bottom	3.1	3	2	12:34	17.9	7.8		6.17	9.56	11.4
TMCLKL	HY/2012/08	2017-02-09	Mid-Flood	Cloudy	Small wave		Surface	1	1	1	12:58	17.7	7.64		6.54	9.12	10.9
TMCLKL	HY/2012/08	2017-02-09	Mid-Flood	Cloudy	Small wave	SR10A	Surface	1	1	2	12:58	17.6			6.56	9.13	11.2
TMCLKL	HY/2012/08	2017-02-09	Mid-Flood	Cloudy	Small wave			6.6	2	1	12:58	17.6			6.41	9.27	11.6
TMCLKL	HY/2012/08	2017-02-09	Mid-Flood	Cloudy	Small wave	SR10A		6.6	2	2	12:58	17.6	7.8		6.44	9.25	11.3
TMCLKL	HY/2012/08	2017-02-09	Mid-Flood	Cloudy	Small wave		Bottom	12.2	3	- 1	12:58	17.6	7.59		6.93	9.33	12.2
TMCLKL	HY/2012/08	2017-02-09	Mid-Flood	Cloudy	Small wave		Bottom	12.2	3	2	12:58	17.7			6.95	9.32	12.2
TMCLKL	HY/2012/08	2017-02-09	Mid-Ebb	Cloudy	Small wave	CS4	Surface	1	1	1	17:25	17.7	7.91		6.65	8.82	13.2
TMCLKL	HY/2012/08	2017-02-09	Mid-Ebb	Cloudy	Small wave	CS4 CS4	Surface	1	1	2	17:25	17.8			6.69	8.89	13.3
TMCLKL	HY/2012/08	2017-02-09	Mid-Ebb	Cloudy		CS4 CS4		8.8	2	1	17:25	17.8			6.61	8.64	13.2
TMCLKL	HY/2012/08	2017-02-09	Mid-Ebb	Cloudy		CS4 CS4		o.o 8.8	2	2	-	17.9	7.92		6.57	8.71	13.6
TMCLKL	HY/2012/08	2017-02-09	Mid-Ebb	Cloudy	Small wave	CS4 CS4	Bottom	16.6	2	1	17:25	17.9			6.45	9.06	13.3
TMCLKL	HY/2012/08	2017-02-09	Mid-Ebb	Cloudy	Small wave	CS4 CS4	Bottom	16.6	3	2	17:25	18	7.95		6.45 6.47	9.00	13.6
TMCLKL	HY/2012/08	2017-02-09	Mid-Ebb	Cloudy	Small wave	CS4 CS6	Surface	10.0	1	1	15:34	18.1	7.91		6.81	8.91	13.7
TMCLKL	HY/2012/08	2017-02-09	Mid-Ebb	Cloudy	Small wave	CS6	Surface	1	1	2		18			6.85	8.86	13.7
TMCLKL	HY/2012/08 HY/2012/08	2017-02-09	Mid-Ebb	Cloudy	Small wave	CS6 CS6		1 6.7	2	<u>د</u> 1	15:34	18.1			6.9	9.13	13.7
TMCLKL			Mid-Ebb			CS6		6.7 6.7	2	2	15:34	18.2	7.92		6.9 6.87	9.13 9.2	13.4
	HY/2012/08 HY/2012/08	2017-02-09		Cloudy	Small wave				2	<u>د</u> 1			7.92 7.88			9.2 9.51	
		2017-02-09	Mid-Ebb	Cloudy	Small wave	CS6	Bottom	12.4	3	2	15:34	18.3			6.74 6.71		14.1
	HY/2012/08	2017-02-09	Mid-Ebb	Cloudy	Small wave	CS6	Bottom	12.4	J 1	4	15:34	18.4			6.71 6.7	9.63	13.9
	HY/2012/08	2017-02-09	Mid-Ebb	Cloudy			Surface	1	1			17.6	7.82			9.1	12.4
	HY/2012/08	2017-02-09	ממש-בטוועו	Cloudy	Small wave	1912	Surface	1	1	2	17:03	17.7	7.85	20.9	6.67	9.04	12.8

Project	Works	Date	Tide	Weather	Sea Condition	Stat	Level	Water Depth	Lev_Cod	Replicate	Time	Temp(°C)	рН	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)
TMCLKL	HY/2012/08	2017-02-09	Mid-Ebb	Cloudy	Small wave	IS12	Middle	6.1	2	1	17:03	17.8	7.86	27	6.72	8.96	13.2
TMCLKL	HY/2012/08	2017-02-09	Mid-Ebb	Cloudy	Small wave	IS12	Middle	6.1	2	2	17:03	17.8	7.82	26.9	6.76	9	12.5
TMCLKL	HY/2012/08	2017-02-09	Mid-Ebb	Cloudy	Small wave	IS12	Bottom	11.2	3	1	17:03	18	7.85	27	6.55	8.31	13.1
TMCLKL	HY/2012/08	2017-02-09	Mid-Ebb	Cloudy	Small wave	IS12	Bottom	11.2	3	2	17:03	18.1	7.88	27.1	6.52	9.37	12.9
TMCLKL	HY/2012/08	2017-02-09	Mid-Ebb	Cloudy	Small wave	IS13	Surface	1	1	1	16:49	17.9	7.86	26.9	6.85	9.01	12.7
TMCLKL	HY/2012/08	2017-02-09	Mid-Ebb	Cloudy	Small wave	IS13	Surface	1	1	2	16:49	18	7.91	26.8	6.81	8.92	12.7
TMCLKL	HY/2012/08	2017-02-09	Mid-Ebb	Cloudy	Small wave	IS13	Middle	5.5	2	1	16:49	18	7.88	26.9	6.76	8.72	12.5
TMCLKL	HY/2012/08	2017-02-09	Mid-Ebb	Cloudy	Small wave	IS13	Middle	5.5	2	2	16:49	17.9	7.92	27	6.72	8.78	12.8
TMCLKL	HY/2012/08	2017-02-09	Mid-Ebb	Cloudy	Small wave	IS13		9.9	3	1	16:49	18.1	7.84	27	6.72	9.22	12.9
TMCLKL	HY/2012/08	2017-02-09	Mid-Ebb	Cloudy	Small wave	IS13		9.9	3	2	16:49	18.2	7.88	27.1	6.78	9.28	12.6
TMCLKL	HY/2012/08	2017-02-09	Mid-Ebb	Cloudy		IS14	Surface	1	1	1	17:12	17.9	7.86		6.71	9	11.9
TMCLKL	HY/2012/08	2017-02-09	Mid-Ebb	Cloudy		IS14	Surface	1	1	2	17:12	17.8	7.82		6.68	8.92	11.3
TMCLKL	HY/2012/08	2017-02-09	Mid-Ebb	Cloudy		IS14	Middle	5.6	2	1	17:12	18	7.85		6.66	8.67	12.3
TMCLKL	HY/2012/08	2017-02-09	Mid-Ebb	Cloudy	Small wave	IS14	Middle	5.6	2	2	17:12	17.9	7.9	26.8	6.63	8.73	12.2
TMCLKL	HY/2012/08	2017-02-09	Mid-Ebb	Cloudy	Small wave	IS14	Bottom	10.2	3	1	17:12	18.1	7.88		6.5	9.1	11.7
TMCLKL	HY/2012/08	2017-02-09	Mid-Ebb	Cloudy		IS14	Bottom	10.2	3	2	17:12	18.1	7.85		6.48	9.18	11.5
TMCLKL	HY/2012/08	2017-02-09	Mid-Ebb	Cloudy		IS15	Surface	1	1	1	16:33	17.8	7.78		6.7	8.91	12.5
TMCLKL	HY/2012/08	2017-02-09	Mid-Ebb	Cloudy		IS15	Surface	1	1	2	16:33	17.9	7.81	26.8	6.67	8.84	12.9
TMCLKL	HY/2012/08	2017-02-09	Mid-Ebb	Cloudy	Small wave	IS15	Middle	4.8	2	1	16:33	18	7.76		6.73	8.61	12.4
	HY/2012/08	2017-02-09	Mid-Ebb	Cloudy	Small wave	IS15 IS15	Middle	4.8	2	2	16:33	17.9	7.82		6.76	8.67	12.4
TMCLKL	HY/2012/08	2017-02-09	Mid-Ebb	Cloudy	Small wave	IS15 IS15		4.0 8.6	2	1	16:33	17.9	7.84	20.9	6.62	9.09	13.1
	HY/2012/08	2017-02-09	Mid-Ebb	Cloudy		IS15 IS15		8.6	2	2	16:33	18	7.87		6.58	9.18	12.5
	HY/2012/08	2017-02-09	Mid-Ebb	Cloudy		SR8	Surface	0.0 1	3 1	۲ ۱	16:04	17.9	7.76	26.7	6.84		11.8
					Small wave			1	1	1						8.46	
	HY/2012/08	2017-02-09	Mid-Ebb	Cloudy	Small wave	SR8	Surface		1	2	16:04	17.9	7.81	26.8	6.81	8.52	11.6
	HY/2012/08	2017-02-09	Mid-Ebb	Cloudy	Small wave	SR8	Middle		2	1	16:04						
TMCLKL	HY/2012/08	2017-02-09	Mid-Ebb	Cloudy	Small wave	SR8	Middle		2	2	16:04	10	7.04		0.00	0.70	
			Mid-Ebb	Cloudy			Bottom	4	3	1	16:04				6.63	8.73	11.6
TMCLKL	HY/2012/08	2017-02-09	Mid-Ebb	Cloudy		SR8	Bottom	4	3	2		18.1		26.9	6.66	8.81	11.9
TMCLKL	HY/2012/08	2017-02-09	Mid-Ebb	Cloudy			Surface	1	1	1		18			6.74	8.71	12
TMCLKL	HY/2012/08	2017-02-09	Mid-Ebb	Cloudy		SR9	Surface	1	1	2	16:18	18.1	7.78	27	6.71	8.82	12.2
TMCLKL	HY/2012/08	2017-02-09	Mid-Ebb	Cloudy		SR9	Middle		2	1	16:18						
TMCLKL	HY/2012/08	2017-02-09	Mid-Ebb	Cloudy		SR9	Middle		2	2	16:18						
TMCLKL	HY/2012/08	2017-02-09	Mid-Ebb	Cloudy		SR9	-	3.2	3	1	16:18	18.1			6.63	9.01	11.9
TMCLKL	HY/2012/08	2017-02-09	Mid-Ebb	Cloudy		SR9		3.2	3	2		18.2			6.67	9.09	12.6
TMCLKL	HY/2012/08	2017-02-09	Mid-Ebb	Cloudy	Small wave		Surface	1	1	1		17.9			6.72	8.65	11.8
TMCLKL	HY/2012/08	2017-02-09	Mid-Ebb	Cloudy	Small wave		Surface	1	1	2	15:48	18			6.75	8.71	12.1
TMCLKL	HY/2012/08	2017-02-09	Mid-Ebb	Cloudy	Small wave	SR10A	Middle	6.9	2	1	15:48	18.1	7.88	26.7	6.78	8.89	12.3
TMCLKL	HY/2012/08	2017-02-09	Mid-Ebb	Cloudy	Small wave	SR10A	Middle	6.9	2	2	15:48	18.2	7.92		6.8	8.96	11.7
TMCLKL	HY/2012/08	2017-02-09	Mid-Ebb	Cloudy	Small wave	SR10A	Bottom	12.8	3	1	15:48	18.3	7.91	26.9	6.67	9.21	12.4
TMCLKL	HY/2012/08	2017-02-09	Mid-Ebb	Cloudy	Small wave	SR10A	Bottom	12.8	3	2	15:48	18.2	7.87	27	6.64	9.28	12.3
TMCLKL	HY/2012/08	2017-02-11	Mid-Flood	Cloudy		CS4	Surface	1	1	1	09:34	17.4	7.88		6.75	8.73	12.4
TMCLKL	HY/2012/08	2017-02-11	Mid-Flood	Cloudy	Small wave	CS4	Surface	1	1	2	09:34	17.5	7.85	26.8	6.77	8.77	12.6
TMCLKL	HY/2012/08	2017-02-11	Mid-Flood	Cloudy	Small wave	CS4	Middle	8.9	2	1	09:34	17.6	7.9	26.9	6.51	8.62	12.5
TMCLKL	HY/2012/08	2017-02-11	Mid-Flood	Cloudy	Small wave	CS4	Middle	8.9	2	2	09:34	17.6	7.94	27	6.54	8.65	12.4
TMCLKL	HY/2012/08	2017-02-11	Mid-Flood	Cloudy	Small wave	CS4	Bottom	16.8	3	1	09:34	17.7	7.56	27.1	6.58	8.98	12.7
TMCLKL	HY/2012/08	2017-02-11	Mid-Flood	Cloudy	Small wave	CS4	Bottom	16.8	3	2	09:34	17.8		27.1	6.56	9.03	12.8
TMCLKL	HY/2012/08	2017-02-11	Mid-Flood	Cloudy		CS6	Surface	1	1	1	07:25	17.2		26.7	6.77	8.84	12.8
TMCLKL	HY/2012/08	2017-02-11	Mid-Flood	Cloudy		CS6	Surface	1	1	2	07:25	17.2	7.85		6.79	8.81	13
TMCLKL	HY/2012/08	2017-02-11	Mid-Flood	Cloudy		CS6		6.8	2	1	07:25	17.2			6.82	8.97	12.9
TMCLKL	HY/2012/08	2017-02-11	Mid-Flood	Cloudy		CS6		6.8	2	2	07:25	17.2	-		6.85	8.99	13.1
TMCLKL	HY/2012/08	2017-02-11	Mid-Flood	Cloudy		CS6	-	12.5	3	1		17.4			6.93	9.49	13.7
TMCLKL	HY/2012/08	2017-02-11	Mid-Flood	Cloudy		CS6	Bottom	12.5	3	2	07:25	17.4			6.9	9.54	13.9
TMCLKL	HY/2012/08	2017-02-11	Mid-Flood	Cloudy		IS12	Surface	1	1	1	09:05	17.4	7.81		6.72	9.07	12.1
TMCLKL	HY/2012/08	2017-02-11	Mid-Flood	Cloudy		IS12 IS12	Surface	1	1	2	09:05	17.5			6.74	9.11	12.2
			Mid-Flood	Cloudy			Middle	63	2	1		17.4	7.75		6.86	9.02	12.2
	HY/2012/08			Cloudy	Small wave		Middle		2	2	09:05		7.77		6.89	9.05	12.2
	111/ZU1Z/UŎ	2017-02-11	IVIIU-FIUUU	Ciouuy	Small wave	1312	iviluule	0.3	۷	4	ບອ.ບວ	17.4	1.11	20.0	0.09	9.00	12.2

Project	Works	Date	Tide	Weather	Sea Condition	Stat	Level	Water Depth	Lev_Cod	Replicate	Time	Temp(°C)	рН	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)
TMCLKL	HY/2012/08	2017-02-11	Mid-Flood	Cloudy	Small wave	IS12	Bottom	11.5	3	1	09:05	17.4	7.93	27.1	6.63	9.24	12.6
TMCLKL	HY/2012/08	2017-02-11	Mid-Flood	Cloudy	Small wave	IS12	Bottom	11.5	3	2	09:05	17.5	7.97	27.1	6.68	9.26	12.5
TMCLKL	HY/2012/08	2017-02-11	Mid-Flood	Cloudy	Small wave	IS13	Surface	1	1	1	08:51	17.4	7.74	26.7	6.84	8.97	12.5
TMCLKL	HY/2012/08	2017-02-11	Mid-Flood	Cloudy	Small wave	IS13	Surface	1	1	2	08:51	17.4	7.77	26.8	6.87	9	12.1
TMCLKL	HY/2012/08	2017-02-11	Mid-Flood	Cloudy	Small wave	IS13	Middle	5.4	2	1	08:51	17.3	7.96	26.9	6.67	8.73	11.8
TMCLKL	HY/2012/08	2017-02-11	Mid-Flood	Cloudy	Small wave	IS13	Middle	5.4	2	2	08:51	17.4	7.91	27	6.69	8.77	12.3
TMCLKL	HY/2012/08	2017-02-11	Mid-Flood	Cloudy	Small wave	IS13	Bottom	9.8	3	1	08:51	17.5	7.58	26.9	6.57	9.14	12.7
TMCLKL	HY/2012/08	2017-02-11	Mid-Flood	Cloudy	Small wave	IS13	Bottom	9.8	3	2	08:51	17.6	7.63	27.1	6.6	9.18	12.4
TMCLKL	HY/2012/08	2017-02-11	Mid-Flood	Cloudy	Small wave	IS14	Surface	1	1	1	09:20	17.4	7.91	26.8	6.73	8.95	11.2
TMCLKL	HY/2012/08	2017-02-11	Mid-Flood	Cloudy	Small wave	IS14	Surface	1	1	2	09:20	17.5	7.94	26.9	6.77	8.97	11
TMCLKL	HY/2012/08	2017-02-11	Mid-Flood	Cloudy	Small wave	IS14	Middle	5.7	2	1	09:20	17.5	7.62	27	6.51	8.53	10.9
TMCLKL	HY/2012/08	2017-02-11	Mid-Flood	Cloudy	Small wave	IS14	Middle	5.7	2	2	09:20	17.5	7.65	27.1	6.54	8.57	10.8
TMCLKL	HY/2012/08	2017-02-11	Mid-Flood	Cloudy	Small wave	IS14	Bottom	10.3	3	1	09:20	17.7	7.7	27	6.69	8.99	11.5
TMCLKL	HY/2012/08	2017-02-11	Mid-Flood	Cloudy	Small wave	IS14	Bottom	10.3	3	2	09:20	17.8	7.72	26.9	6.65	8.94	11.2
TMCLKL	HY/2012/08	2017-02-11	Mid-Flood	Cloudy	Small wave	IS15	Surface	1	1	1	08:36	17.4	7.84	26.8	6.6	8.87	11.8
TMCLKL	HY/2012/08	2017-02-11	Mid-Flood	Cloudy	Small wave	IS15	Surface	1	1	2	08:36	17.5	7.88	26.9	6.65	8.83	12.2
TMCLKL	HY/2012/08	2017-02-11	Mid-Flood	Cloudy	Small wave	IS15	Middle	4.7	2	1	08:36	17.5	7.61	26.7	6.77	8.63	11.7
TMCLKL	HY/2012/08	2017-02-11	Mid-Flood	Cloudy	Small wave	IS15	Middle	4.7	2	2	08:36	17.6	7.64	26.7	6.72	8.66	11.5
TMCLKL	HY/2012/08	2017-02-11	Mid-Flood	Cloudy	Small wave	IS15	Bottom	8.4	3	1	08:36	17.7	7.85	26.8	6.93	8.92	11.9
TMCLKL	HY/2012/08	2017-02-11	Mid-Flood	Cloudy	Small wave	IS15	Bottom	8.4	3	2	08:36	17.8	7.81	26.9	6.95	8.97	12.2
TMCLKL	HY/2012/08	2017-02-11	Mid-Flood	Cloudy	Small wave	SR8	Surface	1	1	1	07:56	17.2	7.66	26.7	6.73	8.48	11.1
TMCLKL	HY/2012/08	2017-02-11	Mid-Flood	Cloudy	Small wave	SR8	Surface	1	1	2	07:56	17.3	7.69	26.8	6.76	8.45	11.1
TMCLKL	HY/2012/08	2017-02-11	Mid-Flood	Cloudy	Small wave	SR8	Middle		2	1	07:56						
TMCLKL	HY/2012/08	2017-02-11	Mid-Flood	Cloudy	Small wave	SR8	Middle		2	2	07:56						
TMCLKL	HY/2012/08	2017-02-11	Mid-Flood	Cloudy	Small wave	SR8	Bottom	4.2	3	1	07:56	17.3	7.83	26.7	6.84	8.82	11.7
TMCLKL	HY/2012/08	2017-02-11	Mid-Flood	Cloudy	Small wave	SR8	Bottom	4.2	3	2	07:56	17.4	7.87	26.7	6.87	8.84	11.7
TMCLKL	HY/2012/08	2017-02-11	Mid-Flood	Cloudy	Small wave	SR9	Surface	1	1	1	08:21	17.3	7.67	26.8	6.83	8.66	11
TMCLKL	HY/2012/08	2017-02-11	Mid-Flood	Cloudy	Small wave	SR9	Surface	1	1	2	08:21	17.3	7.65	26.7	6.87	8.68	11.4
TMCLKL	HY/2012/08	2017-02-11	Mid-Flood	Cloudy	Small wave	SR9	Middle		2	1	08:21						
TMCLKL	HY/2012/08	2017-02-11	Mid-Flood	Cloudy	Small wave	SR9	Middle		2	2	08:21						
TMCLKL	HY/2012/08	2017-02-11	Mid-Flood	Cloudy	Small wave	SR9	Bottom	3.4	3	1	08:21	17.4	7.84	26.9	6.72	8.95	11.5
TMCLKL	HY/2012/08	2017-02-11	Mid-Flood	Cloudy	Small wave	SR9	Bottom	3.4	3	2	08:21	17.3	7.89	27	6.77	8.99	11.8
TMCLKL	HY/2012/08	2017-02-11	Mid-Flood	Cloudy	Small wave	SR10A	Surface	1	1	1	07:40	17.2	7.78	26.7	6.81	8.57	11.3
TMCLKL	HY/2012/08	2017-02-11	Mid-Flood	Cloudy	Small wave	SR10A	Surface	1	1	2	07:40	17.3	7.81	26.7	6.84	8.6	11
TMCLKL	HY/2012/08	2017-02-11	Mid-Flood	Cloudy	Small wave	SR10A	Middle	6.8	2	1	07:40	17.4	7.97	26.9	6.92	8.77	11.6
TMCLKL	HY/2012/08	2017-02-11	Mid-Flood	Cloudy	Small wave	SR10A	Middle	6.8	2	2		17.5	7.93	26.8	6.95	8.81	11.4
TMCLKL	HY/2012/08	2017-02-11	Mid-Flood	Cloudy	Small wave	SR10A	Bottom	12.6	3	1	07:40	17.5	7.84	27	6.76	9.14	11.8
TMCLKL	HY/2012/08	2017-02-11	Mid-Flood	Cloudy	Small wave	SR10A	Bottom	12.6	3	2	07:40	17.5	7.88	27.1	6.72	9.17	11.6
TMCLKL	HY/2012/08	2017-02-11	Mid-Ebb	Cloudy	Small wave	CS4	Surface	1	1	1		17.5		26.9	6.66	8.79	12.7
TMCLKL	HY/2012/08	2017-02-11	Mid-Ebb	Cloudy	Small wave	CS4	Surface	1	1	2		17.6		27	6.68	8.83	12.9
TMCLKL	HY/2012/08	2017-02-11	Mid-Ebb	Cloudy		CS4		8.8	2	1	11:40	17.7		27.1	6.42	8.68	12.6
TMCLKL	HY/2012/08	2017-02-11	Mid-Ebb	Cloudy		CS4		8.8	2	2	11:40	17.8	8	27	6.45	8.71	12.8
TMCLKL	HY/2012/08	2017-02-11	Mid-Ebb	Cloudy	Small wave	CS4	Bottom	16.6	3	1		17.8	7.52	27.1	6.49	9.04	12.9
TMCLKL	HY/2012/08	2017-02-11	Mid-Ebb	Cloudy	Small wave	CS4	Bottom	16.6	3	2		17.9		27.2	6.47	9.09	13.4
TMCLKL	HY/2012/08	2017-02-11	Mid-Ebb	Cloudy		CS6	Surface	1	1	1		17.7		27	6.68	8.9	12.8
TMCLKL	HY/2012/08	2017-02-11	Mid-Ebb	Cloudy		CS6	Surface	1	1	2		17.6		27.1	6.7	8.87	12.7
TMCLKL	HY/2012/08	2017-02-11	Mid-Ebb	Cloudy		CS6		6.6	2	1		17.7		27.1	6.73	9.03	13
TMCLKL	HY/2012/08	2017-02-11	Mid-Ebb	Cloudy	Small wave	CS6		6.6	2	2	13:57	17.8	7.8	27.2	6.76	9.05	13
TMCLKL	HY/2012/08	2017-02-11	Mid-Ebb	Cloudy	Small wave	CS6	Bottom	12.2	3	1	13:57	17.9	7.74	27.2	6.84	9.55	14
TMCLKL	HY/2012/08	2017-02-11	Mid-Ebb	Cloudy	Small wave	CS6	Bottom	12.2	3	2		17.9		27.3	6.81	9.6	14.3
TMCLKL	HY/2012/08	2017-02-11	Mid-Ebb	Cloudy		IS12	Surface	1	1	1		17.6		26.8	6.63	9.13	12.4
TMCLKL	HY/2012/08	2017-02-11	Mid-Ebb	Cloudy	Small wave	IS12	Surface	1	1	2		17.5	7.9	26.9	6.65	9.17	12.4
TMCLKL	HY/2012/08	2017-02-11	Mid-Ebb	Cloudy	Small wave	IS12		6.1	2	1		17.4	7.81	27	6.77	9.08	12.2
TMCLKL	HY/2012/08	2017-02-11	Mid-Ebb	Cloudy	Small wave	IS12		6.1	2	2	12:14	17.5		27.1	6.8	9.11	12.2
TMCLKL	HY/2012/08	2017-02-11	Mid-Ebb	Cloudy				11.2	3	1	12:14			27.2	6.54	9.3	12.3
		2017-02-11		Cloudy	Small wave		Bottom		3	2	12:14		8.03		6.59	9.32	12.7

Project	Works	Date	Tide	Weather	Sea Condition	Stat	Level	Water Depth	Lev_Cod	Replicate	Time	Temp(°C)	рН	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)
TMCLKL	HY/2012/08	2017-02-11	Mid-Ebb	Cloudy	Small wave	IS13	Surface	1	1	1	12:31	17.4	7.8	26.9	6.75	9.03	12.4
TMCLKL	HY/2012/08	2017-02-11	Mid-Ebb	Cloudy	Small wave	IS13	Surface	1	1	2	12:31	17.5	7.83	26.8	6.78	9.06	12.3
TMCLKL	HY/2012/08	2017-02-11	Mid-Ebb	Cloudy	Small wave	IS13	Middle	5.2	2	1	12:31	17.6	8.02	26.9	6.58	8.79	12.1
TMCLKL	HY/2012/08	2017-02-11	Mid-Ebb	Cloudy	Small wave	IS13	Middle	5.2	2	2	12:31	17.7	7.97	27	6.6	8.83	12.1
TMCLKL	HY/2012/08	2017-02-11	Mid-Ebb	Cloudy	Small wave	IS13	Bottom	9.4	3	1	12:31	17.7	7.64	27.1	6.48	9.2	12.4
TMCLKL	HY/2012/08	2017-02-11	Mid-Ebb	Cloudy	Small wave	IS13	Bottom	9.4	3	2	12:31	17.6	7.69	27.2	6.51	9.24	12.7
TMCLKL	HY/2012/08	2017-02-11	Mid-Ebb	Cloudy	Small wave	IS14	Surface	1	1	1	11:57	17.6	7.97	27.1	6.64	9.01	11
TMCLKL	HY/2012/08	2017-02-11	Mid-Ebb	Cloudy	Small wave	IS14	Surface	1	1	2	11:57	17.7	8	27	6.68	9.03	11.2
TMCLKL	HY/2012/08	2017-02-11	Mid-Ebb	Cloudy	Small wave	IS14	Middle	5.5	2	1	11:57	17.7	7.68	27.1	6.42	8.59	10.5
TMCLKL	HY/2012/08	2017-02-11	Mid-Ebb	Cloudy	Small wave	IS14	Middle	5.5	2	2	11:57	17.6	7.71	27.2	6.45	8.63	10.9
TMCLKL	HY/2012/08	2017-02-11	Mid-Ebb	Cloudy	Small wave	IS14	Bottom	10	3	1	11:57	17.7	7.76	27.2	6.6	9.05	11.2
TMCLKL	HY/2012/08	2017-02-11	Mid-Ebb	Cloudy	Small wave	IS14	Bottom	10	3	2	11:57	17.8	7.78	27.1	6.56	9	11.5
TMCLKL	HY/2012/08	2017-02-11	Mid-Ebb	Cloudy	Small wave	IS15	Surface	1	1	1	12:48	17.6	7.9	26.9	6.51	8.93	12.2
TMCLKL	HY/2012/08	2017-02-11	Mid-Ebb	Cloudy	Small wave	IS15	Surface	1	1	2	12:48	17.5	7.94	27	6.56	8.89	11.8
TMCLKL	HY/2012/08	2017-02-11	Mid-Ebb	Cloudy	Small wave	IS15		4.6	2	1	12:48	17.7	7.67	26.8	6.68	8.69	11.8
TMCLKL	HY/2012/08	2017-02-11	Mid-Ebb	Cloudy	Small wave	IS15		4.6	2	2	12:48	17.8	7.7	26.7	6.63	8.72	11.7
TMCLKL	HY/2012/08	2017-02-11	Mid-Ebb	Cloudy	Small wave	IS15		8.2	3	1	12:48	17.9	7.91	27	6.84	8.98	12.3
TMCLKL	HY/2012/08	2017-02-11	Mid-Ebb	Cloudy	Small wave	IS15		8.2	3	2	12:48	17.8	7.87	27.1	6.86	9.03	12.3
TMCLKL	HY/2012/08	2017-02-11	Mid-Ebb	Cloudy	Small wave	SR8	Surface	1	1	1	13:22	17.4	7.72	26.9	6.64	8.54	11.1
TMCLKL	HY/2012/08	2017-02-11	Mid-Ebb	Cloudy	Small wave	SR8	Surface	1	1	2	13:22	17.4	7.75	27	6.67	8.51	10.7
TMCLKL	HY/2012/08	2017-02-11	Mid-Ebb	Cloudy	Small wave	SR8	Middle	<b>i</b>	2	1	13:22	1		1			1
TMCLKL	HY/2012/08	2017-02-11	Mid-Ebb	Cloudy	Small wave	SR8	Middle		2	2	13:22						
TMCLKL	HY/2012/08	2017-02-11	Mid-Ebb	Cloudy	Small wave	SR8		3.8	3	1	13:22	17.4	7.89	27	6.75	8.88	11.7
TMCLKL	HY/2012/08	2017-02-11	Mid-Ebb	Cloudy	Small wave	SR8		3.8	3	2	13:22	17.5	7.93	27.1	6.79	8.9	11.7
TMCLKL	HY/2012/08	2017-02-11	Mid-Ebb	Cloudy	Small wave	SR9	Surface	1	1	1	13:05	17.3	7.73	26.8	6.74	8.72	10.8
TMCLKL	HY/2012/08	2017-02-11	Mid-Ebb	Cloudy	Small wave	SR9	Surface	1	1	2	13:05	17.4	7.71	26.9	6.78	8.74	11.2
	HY/2012/08		Mid-Ebb	Cloudy		SR9	Middle		2	1	13:05			20.0	0.10		
TMCLKL	HY/2012/08	2017-02-11	Mid-Ebb	Cloudy	Small wave	SR9	Middle		2	2	13:05						+
TMCLKL	HY/2012/08	2017-02-11	Mid-Ebb	Cloudy	Small wave	SR9		3.2	3	1		17.4	7.9	26.9	6.63	9.01	11.7
TMCLKL	HY/2012/08	2017-02-11	Mid-Ebb	Cloudy	Small wave	SR9		3.2	3	2	13:05	17.5		27	6.68	9.05	11.4
TMCLKL	HY/2012/08	2017-02-11	Mid-Ebb	Cloudy	Small wave	SR10A	Surface	1	1	1	13:39	17.4		26.8	6.71	8.63	10.9
TMCLKL	HY/2012/08	2017-02-11	Mid-Ebb	Cloudy	Small wave		Surface	1	1	2	13:39	17.5		26.9	6.75	8.66	10.9
TMCLKL	HY/2012/08	2017-02-11	Mid-Ebb	Cloudy	Small wave		-	6.7	2	1	13:39	17.6		27.1	6.83	8.83	11.5
TMCLKL	HY/2012/08	2017-02-11	Mid-Ebb	Cloudy	Small wave			6.7	2	2	13:39	17.7		27	6.86	8.87	11.7
TMCLKL	HY/2012/08	2017-02-11	Mid-Ebb	Cloudy	Small wave	SR10A		12.4	3	1	13:39	17.7	7.9	27.1	6.67	9.2	12.2
TMCLKL	HY/2012/08	2017-02-11	Mid-Ebb	Cloudy	Small wave	SR10A	Bottom	12.4	3	2	13:39	17.8	7.94	27.2	6.63	9.23	11.8
TMCLKL	HY/2012/08	2017-02-11	Mid-Ebb Mid-Flood	Fine	Small wave	CS4	Surface	12.4	1	1	11:00	17.4		26.6	6.77	8.63	12.7
TMCLKL	HY/2012/08	2017-02-14	Mid-Flood	Fine		CS4	Surface	1	1	2		17.5		26.5	6.75	8.67	12.8
TMCLKL	HY/2012/08	2017-02-14	Mid-Flood	Fine		CS4 CS4	Middle	9	2	1		17.5		26.6	6.54	8.72	12.8
TMCLKL	HY/2012/08	2017-02-14	Mid-Flood	Fine	Small wave	CS4 CS4	Middle	9 9	2	2	11:00	17.6		26.7	6.58	8.77	12.3
TMCLKL	HY/2012/08	2017-02-14	Mid-Flood	Fine	Small wave	CS4 CS4	Bottom	9 17	<u>د</u> ع	1	11:00	17.0		26.8	6.76	8.81	12.9
TMCLKL	HY/2012/08	2017-02-14	Mid-Flood	Fine		CS4 CS4	Bottom	17	3	2	11:00	17.6		26.9	6.79	8.84	12.7
TMCLKL	HY/2012/08	2017-02-14	Mid-Flood	Fine	Small wave	CS4 CS6	Surface	1	J 1	<u>-</u> 1		17.0			6.61	8.72	12.7
				Fine	Small wave	÷		1	1	2				26.4	6.64	8.77	13.1
	HY/2012/08	2017-02-14	Mid-Flood		Small wave	CS6	Surface Middle	1 6 0	2	<u>د</u> ۱		17.2		26.5			
	HY/2012/08	2017-02-14	Mid-Flood	Fine	Small wave	CS6		6.8	2	1		17.2	7.57 7.6	26.5	6.77 6.75	8.87 8.9	13.3 13.2
	HY/2012/08	2017-02-14	Mid-Flood	Fine	Small wave	CS6		6.8 12.6	2	4		17.3		26.5			
	HY/2012/08	2017-02-14	Mid-Flood	Fine	Small wave	CS6	Bottom	12.6	ა ა			17.3		26.6	6.82	9.37	13.5
	HY/2012/08	2017-02-14	Mid-Flood	Fine	Small wave	CS6	Bottom	12.6	3	4		17.3		26.7	6.86	9.33	13.7
	HY/2012/08	2017-02-14	Mid-Flood	Fine	Small wave	IS12	Surface	1	1			17.4		26.5	6.64	8.96	12
	HY/2012/08	2017-02-14	Mid-Flood	Fine	Small wave	IS12	Surface			4		17.5		26.6	6.67	8.99	11.8
	HY/2012/08	2017-02-14	Mid-Flood	Fine	Small wave	IS12		6.3	2			17.5		26.8	6.73	8.98	11.8
	HY/2012/08	2017-02-14	Mid-Flood	Fine	Small wave	IS12		6.3	2	2		17.6		26.8	6.77	9.04	12.4
TMCLKL	HY/2012/08	2017-02-14	Mid-Flood	Fine	Small wave	IS12	Bottom	11.6	<u>ა</u>	1	10:31	17.5		26.7	6.79	9.18	12.4
TMCLKL	HY/2012/08	2017-02-14	Mid-Flood	Fine	Small wave	IS12		11.6	3	2		17.6		26.8	6.83	9.21	12.6
			Mid-Flood	Fine		IS13	Surface	1	1	1	10:17		7.7	26.5	6.81	8.85	12
IMCLKL	HY/2012/08	2017-02-14	Mid-Flood	Fine	Small wave	IS13	Surface	1	1	2	10:17	17.3	7.75	26.6	6.85	8.87	11.9

Project	Works	Date	Tide	Weather	Sea Condition	Stat	Level	Water Depth	Lev_Cod	Replicate	Time	Temp(°C)	рН	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)
TMCLKL	HY/2012/08	2017-02-14	Mid-Flood	Fine	Small wave	IS13	Middle	5.3	2	1	10:17	17.5	7.95	26.7	6.77	8.64	12.3
TMCLKL	HY/2012/08	2017-02-14	Mid-Flood	Fine	Small wave	IS13	Middle	5.3	2	2	10:17	17.4	7.99	26.8	6.79	8.68	11.7
TMCLKL	HY/2012/08	2017-02-14	Mid-Flood	Fine	Small wave	IS13	Bottom	9.5	3	1	10:17	17.6	7.68	26.7	6.48	8.95	12.3
TMCLKL	HY/2012/08	2017-02-14	Mid-Flood	Fine	Small wave	IS13	Bottom	9.5	3	2	10:17	17.5	7.72	26.7	6.52	8.99	12.7
TMCLKL	HY/2012/08	2017-02-14	Mid-Flood	Fine	Small wave	IS14	Surface	1	1	1	10:45	17.4	7.8	26.5	6.72	8.82	10.9
TMCLKL	HY/2012/08	2017-02-14	Mid-Flood	Fine	Small wave	IS14	Surface	1	1	2	10:45	17.4	7.83	26.6	6.76	8.84	10.9
TMCLKL	HY/2012/08	2017-02-14	Mid-Flood	Fine	Small wave	IS14	Middle	5.7	2	1	10:45	17.5	7.53	26.8	6.58	8.56	10.8
TMCLKL	HY/2012/08	2017-02-14	Mid-Flood	Fine	Small wave	IS14	Middle	5.7	2	2	10:45	17.6	7.59	26.7	6.54	8.59	11
TMCLKL	HY/2012/08	2017-02-14	Mid-Flood	Fine	Small wave	IS14	Bottom	10.4	3	1	10:45	17.7	7.66	26.9	6.85	8.94	10.8
TMCLKL	HY/2012/08	2017-02-14	Mid-Flood	Fine	Small wave	IS14	Bottom	10.4	3	2	10:45	17.6	7.72	27	6.88	8.97	10.9
TMCLKL	HY/2012/08	2017-02-14	Mid-Flood	Fine	Small wave	IS15	Surface	1	1	1	10:04	17.3	7.72	26.5	6.51	8.77	11.6
TMCLKL	HY/2012/08	2017-02-14	Mid-Flood	Fine	Small wave	IS15	Surface	1	1	2	10:04	17.4	7.76	26.4	6.55	8.79	11.9
TMCLKL	HY/2012/08	2017-02-14	Mid-Flood	Fine	Small wave	IS15	Middle	4.8	2	1	10:04	17.4	7.56	26.6	6.7	8.54	11.5
TMCLKL	HY/2012/08	2017-02-14	Mid-Flood	Fine	Small wave	IS15	Middle	4.8	2	2	10:04	17.4	7.6	26.7	6.74	8.58	11.7
TMCLKL	HY/2012/08	2017-02-14	Mid-Flood	Fine	Small wave	IS15	Bottom	8.6	3	1	10:04	17.5	7.93	26.9	6.84	8.94	12.2
TMCLKL	HY/2012/08	2017-02-14	Mid-Flood	Fine	Small wave	IS15	Bottom	8.6	3	2	10:04	17.6	7.97	26.8	6.87	8.96	12.4
TMCLKL	HY/2012/08	2017-02-14	Mid-Flood	Fine	Small wave	SR8	Surface	1	1	1	09:38	17.2	7.56		6.75	8.38	10.9
TMCLKL	HY/2012/08	2017-02-14	Mid-Flood	Fine	Small wave	SR8	Surface	1	1	2	09:38	17.3	7.59	26.5	6.77	8.35	10.8
TMCLKL	HY/2012/08	2017-02-14	Mid-Flood	Fine	Small wave	SR8	Middle		2	1	09:38						
TMCLKL	HY/2012/08	2017-02-14	Mid-Flood	Fine	Small wave	SR8	Middle		2	2	09:38						
TMCLKL	HY/2012/08	2017-02-14	Mid-Flood	Fine	Small wave	SR8		4.3	3	1	09:38	17.3	7.84	26.6	6.8	8.71	11.4
TMCLKL	HY/2012/08	2017-02-14	Mid-Flood	Fine	Small wave	SR8	-	4.3	3	2	09:38	17.4	7.88		6.84	8.73	11.6
TMCLKL	HY/2012/08	2017-02-14	Mid-Flood	Fine	Small wave	SR9	Surface	1	1	1	09:51	17.3	7.66		6.84	8.54	11.2
TMCLKL	HY/2012/08	2017-02-14	Mid-Flood	Fine	Small wave	SR9	Surface	1	1	2	09:51	17.3	7.68	26.5	6.88	8.57	10.6
TMCLKL	HY/2012/08	2017-02-14	Mid-Flood	Fine	Small wave	SR9	Middle	-	2	1	09:51						
TMCLKL	HY/2012/08	2017-02-14	Mid-Flood	Fine	Small wave	SR9	Middle		2	2	09:51						
	HY/2012/08		Mid-Flood	Fine			Bottom	3.5	3	1		17.4	7.74	26.6	6.73	8.83	11.3
TMCLKL	HY/2012/08	2017-02-14	Mid-Flood	Fine	Small wave	SR9		3.5	3	2		17.3		26.7	6.76	8.87	11.7
TMCLKL	HY/2012/08	2017-02-14	Mid-Flood	Fine	Small wave		Surface	1	1	1	09:25	17.2			6.83	8.55	11.3
TMCLKL	HY/2012/08	2017-02-14	Mid-Flood	Fine	Small wave		Surface	1	1	2	09:25	17.2		26.5	6.86	8.59	10.8
TMCLKL	HY/2012/08	2017-02-14	Mid-Flood	Fine	Small wave		-	6.7	2	1		17.3			6.91	8.7	11.6
TMCLKL	HY/2012/08	2017-02-14	Mid-Flood	Fine	Small wave			6.7	2	2	09:25	17.4			6.95	8.74	11.2
TMCLKL	HY/2012/08	2017-02-14	Mid-Flood	Fine	Small wave		-	12.4	3	1	09:25	17.4	-		6.77	9.08	12
TMCLKL	HY/2012/08	2017-02-14	Mid-Flood	Fine	Small wave		Bottom	12.4	3	2	09:25	17.5			6.8	9.12	11.9
TMCLKL	HY/2012/08	2017-02-14	Mid-Ebb	Fine	Small wave	CS4	Surface	1	1	1	13:20	17.5			6.67	8.73	12.3
TMCLKL	HY/2012/08	2017-02-14	Mid-Ebb	Fine	Small wave	CS4	Surface	1	1	2	13:20	17.5		26.6	6.65	8.76	12.5
TMCLKL	HY/2012/08	2017-02-14	Mid-Ebb	Fine		CS4		8.8	2	1		17.6		26.7	6.44	8.88	13
TMCLKL	HY/2012/08	2017-02-14	Mid-Ebb	Fine		CS4	-	8.8	2	2	13:20	17.7			6.47	8.84	12.6
TMCLKL	HY/2012/08	2017-02-14	Mid-Ebb	Fine	Small wave	CS4	-	16.6	3	1	13:20	17.7			6.67	8.9	13.1
TMCLKL	HY/2012/08	2017-02-14	Mid-Ebb	Fine	Small wave	CS4 CS4	-	16.6	3	2	13:20	17.7		26.9	6.69	8.93	12.8
TMCLKL	HY/2012/08	2017-02-14	Mid-Ebb	Fine	Small wave	CS6	Surface	1	1	1	15:37	17.5		26.5	6.52	8.81	12.6
TMCLKL	HY/2012/08	2017-02-14	Mid-Ebb	Fine	Small wave	CS6	Surface	1	1	2	15:37	17.6			6.5	8.85	12.0
TMCLKL	HY/2012/08	2017-02-14	Mid-Ebb	Fine	Small wave	CS6	-	6.6	2	1		17.6	-		6.64	8.99	13
TMCLKL	HY/2012/08	2017-02-14	Mid-Ebb	Fine		CS6	-	6.6	2	2		17.6			6.62	8.95	13.1
TMCLKL	HY/2012/08	2017-02-14	Mid-Ebb	Fine	Small wave	CS6	Bottom	12.2	3	1		17.7			6.7	9.47	14.2
	HY/2012/08	2017-02-14	Mid-Ebb	Fine	Small wave	CS6	Bottom	12.2	3	2		17.6	7.9		6.74	9.43	13.5
	HY/2012/08	2017-02-14	Mid-Ebb	Fine	Small wave	IS12	Surface	1	1	1	14:03	17.5		26.6	6.55	9.08	12.2
	HY/2012/08	2017-02-14	Mid-Ebb	Fine	Small wave	IS12 IS12	Surface	1	1	2		17.5	7.73		6.53	9.05	12.2
	HY/2012/08	2017-02-14	Mid-Ebb	Fine		IS12 IS12		6.1	2	1		17.6			6.68	9.05	12.1
	HY/2012/08	2017-02-14	Mid-Ebb	Fine	Small wave	IS12 IS12	-	6.1	2	2	14:03	17.5		26.7	6.65	9.04	12.4
TMCLKL	HY/2012/08	2017-02-14	Mid-Ebb	Fine	Small wave	IS12 IS12		11.2	<u>-</u> 3	1		17.6			6.71	9.29	12.4
TMCLKL	HY/2012/08 HY/2012/08	2017-02-14		Fine		IS12 IS12		11.2	3	2					6.68	9.29 9.26	12.8
			Mid-Ebb Mid Ebb		Small wave			11.2	J 1	<u> </u>		17.6 17.5			6.7		12.5
	HY/2012/08	2017-02-14	Mid-Ebb	Fine	Small wave	IS13	Surface	1	1	2	14:19	17.5				8.94	
	HY/2012/08	2017-02-14	Mid-Ebb	Fine	Small wave	IS13	Surface	5 1	1	4	14:19	17.5			6.73	8.97	12.7
			Mid-Ebb	Fine		IS13		5.1	2			17.7	1.98		6.64	8.74	11.9
IMCLKL	HY/2012/08	2017-02-14	IVIIa-Ebb	Fine	Small wave	1513	Middle	5.1	2	2	14:19	17.7	7.94	26.7	6.66	8.77	11.8

THCLE, L.         Profile         Diract Arrow         Sins         Diract Arrow         Sins         Diract Arrow         Diract	Project	Works	Date	Tide	Weather	Sea Condition	Stat	Level	Water Depth	Lev_Cod	Replicate	Time	Temp(°C)	рН	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)
INCLUM         VY201238         DVT AD-14         Models         Fire         Small aver         ISHA         Surface         1	TMCLKL	HY/2012/08	2017-02-14	Mid-Ebb	Fine	Small wave	IS13	Bottom		3	1	14:19	17.8	7.73	26.8	6.42	9.07	12.7
TACKAL         W2371208         DOP 014 A         Add Filhs         Fine         Small over         Bits         1         2         1.5.43         17.8         2.86         2.6.4         6.4         6.4         6.4         11           TAC M         10721126         2017 014 A         Add Filhs         Fine         Small over         514         Mohn         6.0         2         1         15.43         17.0         7.53         AT         6.4	TMCLKL	HY/2012/08	2017-02-14	Mid-Ebb	Fine	Small wave	IS13	Bottom	9.2	3	2	14:19	17.7	7.69	26.7	6.39	9.03	12.5
THCLKL         MY201238         OTAL         ModELS         Fine         Finel         Small area         Nife         5         2         1	TMCLKL	HY/2012/08	2017-02-14	Mid-Ebb	Fine	Small wave	IS14	Surface	1	1	1	13:43	17.5	7.81	26.6	6.64	8.93	11.1
TRCLGL         VY2012G8         BY721424         Mode Pice         Frail wave         Stall wave	TMCLKL	HY/2012/08	2017-02-14	Mid-Ebb	Fine	Small wave	IS14	Surface	1	1	2	13:43	17.6	7.85	26.6	6.6	8.91	11
TMCLKAL         WY201208         BYT 02445         Mode Do         Fine         Small wave         State         Battorn         10.1         3         11         33.4         17.6         7.6         26.0         6.7.3         8.09         11.4           MALKAL         MY201206         B17.0         C4.1         Mode Do         Fine         State         K1.6         T.6         Z6.0         C.7.5         R.6.4         B2.0         C.7.5         R.6.5         B.6.5         C.7.5         R.6.5         B.6.5         C.7.5         R.6.5         C.7.5         R.6.5         C.7.5         R.6.5         R.6.5         C.7.5         R.	TMCLKL	HY/2012/08	2017-02-14	Mid-Ebb	Fine	Small wave	IS14	Middle	5.6	2	1	13:43	17.6	7.57	26.8	6.43	8.7	11.1
TMCLCL         WY301268         S07:02-14         Molesbo         Fine         Small wave         State         Buttor         11         3         2         13         14         15         766         26         5.6         6.6         8.6         8.6         8.6         8.6         8.6         8.6         8.6         8.6         8.6         8.6         8.6         8.6         12         14.38         17.6         7.7         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.8         7.6<	TMCLKL	HY/2012/08	2017-02-14	Mid-Ebb	Fine	Small wave	IS14	Middle	5.6	2	2	13:43	17.6	7.53	26.7	6.46	8.66	10.9
THCLE, IK.         PYOPID28         DIT 80 14         Matchine         Fine         Small wore         Erist         Strates         I	TMCLKL	HY/2012/08	2017-02-14	Mid-Ebb	Fine	Small wave	IS14	Bottom	10.1	3	1	13:43	17.7	7.73	26.9	6.73	8.99	11.4
TUCLUA.         PY201200         2017/22-14         Made Bab         Fine         Small wave         B151         Surface         1         1         2         1         4         20         7         7         8.6         0         1         1           TMCLKL         MY20100         2017/22-14         Made Bab         Fine         Small wave         B15         Microl         4         4         2         1         1         4.38         17.7         7.48         8.6         6.7         8.90         1.2           TMCLAL         MY201200         2017/22-14         Made Bab         Fine         Small wave         1518         Button         8.1         3         1         1.43         1         1.43         1         1.43         1.4         1.4         1.4         1.4         1.4         1.4         1.4         1.4         1.4         1.4         1.4         1.4         1.4         1.4         1.4         1.4         1.4         1.5         1.4         1.4         1.4         1.4         1.5         1.4         1.4         1.4         1.4         1.4         1.4         1.4         1.4         1.4         1.4         1.4         1.4         1.4	TMCLKL	HY/2012/08	2017-02-14	Mid-Ebb	Fine	Small wave	IS14	Bottom	10.1	3	2	13:43	17.6	7.68	26.9	6.75	9.05	11.5
TMCLEM.         MY201200         2017/22-14         Mole Shale         Fine         Small aves         E161         Staffaor         1         1         2         1         1         2         7         7         8.6         0         1         1          LTGLK IN         MY201200         2017/22-14         Mole The         Small aves         E15         Multin         4         2         1         1         2         1         1         2         1	TMCLKL	HY/2012/08	2017-02-14	Mid-Ebb	Fine	Small wave	IS15	Surface	1	1	1	14:36	17.5		26.5	6.4		12.1
TMCLELK         HY201208         DY174214         Md4Eb0         Fine         Small wave         B15         Mdde         A.6         2         1         14.38         17.7         7.64         B.7         D.64         B.6         11.4           TMCLKLK         HY201208         D1714214         Md4Eb0         Fine         Small wave         B15         Botom         1.1         14.38         17.7         7.64         B.7         B.6         B.6         B.1         A.1	TMCLKL	HY/2012/08	2017-02-14	Mid-Ebb	Fine	Small wave	IS15	Surface	1	1	2	14:36						
THCLK, H. Y207208         DIT 72:14         Matter         Markawe         S15         Matter         A         P <td>TMCLKL</td> <td>HY/2012/08</td> <td>2017-02-14</td> <td>Mid-Ebb</td> <td>Fine</td> <td></td> <td></td> <td></td> <td>4.6</td> <td>2</td> <td>1</td> <td>14:36</td> <td></td> <td>7.54</td> <td></td> <td></td> <td></td> <td></td>	TMCLKL	HY/2012/08	2017-02-14	Mid-Ebb	Fine				4.6	2	1	14:36		7.54				
THCLEN, HY201208         DIF122140         MolEson         Fine         Small vave         S151         Bottom         S.1         3         1         1.830         17.7         7.95         26.7         6.74         9.96         12.6           INCCLIG, IV7201208         DIT72014         MolEson         Fine         Small vave         S151         Bottom         1	TMCLKL	HY/2012/08		Mid-Ebb	Fine					2	2	14:36	17.6					
TMCLK, H         Prozence         String wave         String         Surface         1         3         2         458         17.7         7.89         67.7         6.7.4         9.09         12.8           TMCLKL, H         MY20208         2017.02-14         Md-Ebb         Fine         Small wave         SR8         Surface         1         1         1         1508         17.6         T.5         7.65         8.6.5         0.4.4         0.1.0           TMCLKL         HY20208         2017.02-14         Md-Ebb         Fine         Small wave         SR8         Middle         2         1         1506         1.7.6         7.68         2.6.7         6.7.1         8.6         11.2           TMCLKL         HY201208         2017.02-14         Md-Ebb         Fine         Small wave         SR8         Bordle         2         1         1.6506         17.6         7.83         2.6.7         6.7.1         8.6         11.2           MdCLKL         HY201208         2017.02-14         Md-Ebb         Fine         Small wave         SR9         Middle         2         1         4.51         1.7.5         7.7         2.6.5         6.76         6.71         8.2.6         1.1.2         <										3	1							
TMCLR, HY/201208         OT7:0:14         Melbab         Fine         Small wave         Site         Surface         1         1         1         1         1         5         7.5         7.54         8.5         6.64         8.44         10.6           TMCLR, HY/201208         D177:0:14         Melbab         Fine         Small wave         Site         Middle         2         1         15.06         1         C										3	2							
TMCLKL, HY201208         Dirit 24         Molebb         Fine         Small wave         SR8         Sufface         1         1         2         15.06         F.F.         Dir         Small         Mace           TMCLKL, HY201208         Dir72.44         Molebb         Fine         Small wave         SR8         Middle         2         1         5.06         F.G.         C         H           TMCLKL, HY201208         Dir72.44         Molebb         Fine         Small wave         SR8         Bolton         4.1         3         1 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>1</td><td>1</td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>									1	1	1							
TMCLKL         HY201208         2017-02-4         Moleshaw         Final         Small wave         File         Molde         2         1         6:06         Image									1	1	2							
TMCLKL HY201208         2017-02-44         Molebab         Fina         Small wave         SRall         Molde         2         2         15.06         1         F         C         1         1           TMCLKL HY201208         2017-02-14         Molebab         Fina         Small wave         SRall         Botton         4.1         3         1 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>2</td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td>1</td></td<>										2	1							1
TMCLIK HV201208         2017-02-14         Mol-Ebb         Fine         Small wave         SR8         Bottom         4.1         3         1         1500         17.5         7.68         26.7         6.71         8.8         11.3           TMCLKL HV201208         2017-02-14         MolEbb         Fine         Small wave         SR8         Sufface         1         1         14.51         17.5         7.67         26.5         6.71         8.82         11.3           TMCLKL HV201208         2017-02-14         MolEbb         Fine         Small wave         SR8         Middle         2         1         14.51         17.5         7.67         26.5         6.71         8.88         11.4           TMCLKL HV201208         2017-02-14         MolEbb         Fine         Small wave         SR8         Bottom         3.2         3         1         14.51         17.6         7.72         26.8         6.63         8.94         11.1           TMCLK HV201208         2017-02-14         MolEbb         Fine         Small wave         SR10A         Sufface         1         1         15.2         17.6         7.72         26.8         6.74         8.8         11.1           TMCLK HV201208										2	2		1	<del> </del>	1	l		+
TMCLK         HY20120B         2017-02-14         Molebb         Fine         Small wave         SRB         Buttorn         4.1         3         2         15.00         17.5         7.65         26.0         6.77         8.82         11.3           TMCLK         HY20120B         2017-02-14         Molebb         Fine         Small wave         SRB         Surface         1         1         14.51         17.5         7.67         26.5         6.71         8.66         11.4           TMCLK         HY20120B         2017-02-14         Molebb         Fine         Small wave         SRB         Model         2         1         14.51         F         <									11	2	1		17.6	7 80	26.7	6 71	8.8	11.2
TMCLUA         HY201208         2017-62:14         Md Ebb         Fine         Small wave         SR9         Surface 1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         2         1         1         2         1         1         1         2         1 <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>3</td><td>2</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>										3	2							
TMCLK         HY201208         2017.02-14         Mid-Ebb         Fine         Small wave         SRP         Middle         2         1         1         2         1         451         7.5         7.7         8.5         6.75         8.68         11.4           TMCLK         HY201208         2017.02-14         Mid-Ebb         Fine         Small wave         SRP         Middle         2         1         14.51         17.6         7.73         26.6         6.66         8.94         11.3           TMCLK         HY201208         2017.02-14         Mid-Ebb         Fine         Small wave         SRP         8.010m         3.2         3         1         14.51         17.7         7.78         26.5         6.74         8.66         11.3           TMCLK         HY201208         2017.02-14         Mid-Ebb         Fine         Small wave         SR10A         Middle         6.5         2         1         15.21         17.7         7.59         26.5         6.78         8.77         11.2           TMCLK         HY201208         2017.02-14         Mid-Ebb         Fine         Small wave         SR10A         Bottom         12         3         1         15.21         17.7									4.1 1	1	1							
TMCLKL         HY201208         2017.02-14         Mid-Ebb         Fine         Small wave         SR9         Middle         2         1         1451         F         F         F         F         F           TMCLKL         HY201208         2017.02-14         Mid-Ebb         Fine         Small wave         SR9         Bildle         2         2         1451         F									1	1	2							
TMCLKL         HY20120B         2017-02-14         Mid-Ebb         Fine         Small wave         SR9         Middle         2         2         1451         TC         7.73         26.6         6.66         B.94         113           TMCLKL         HY20120B         2017-02-14         Mid-Ebb         Fine         Small wave         SR9         Botom         3.2         3         1         1451         17.7         7.78         26.6         6.66         B.94         113           TMCLKL         HY20120B         2017-02-14         Mid-Ebb         Fine         Small wave         SR10A         Surface         1         1         1         1521         17.6         7.74         26.5         6.74         8.66         113           TMCLKL         HY20120B         2017-02-14         Mid-Ebb         Fine         Small wave         SR10A         Surface         1         1         1521         17.7         7.65         28.5         6.82         8.83         11.2           TMCLKL         HY20120B         2017-02-14         Mid-Ebb         Fine         Small wave         SR10A         Botom         12         3         1         1521         17.7         7.65         28.5         6.									1	ן כ	۲ ۲		17.5	1.1	20.5	0.75	0.00	
TMCLK         HY201208         2017-02:14         Mid-Ebb         Fine         Small wave         SR9         Botom         3.2         3         1         14:51         17.6         7.73         26.6         6.66         8.94         11:2           TMCLKL         HY201208         2017-02:14         Mid-Ebb         Fine         Small wave         SR10A         Surface         1         1         1         1         1         7.72         28.5         6.63         8.97         11:1           TMCLKL         HY201208         2017-02:14         Mid-Ebb         Fine         Small wave         SR10A         Middle         6.5         2         1         15:21         17.7         7.69         26.6         6.8         8.79         11:1           TMCLKL         HY201208         2017-02:14         Mid-Ebb         Fine         Small wave         SR10A         Botom         12         3         1         15:21         17.7         7.68         26.6         6.7         9         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1										2	1							+
TMCLK         HY201208         2017-02-14         Mid-Ebb         Fine         Small wave         SR0         Bottm         2         3         2         14-51         17.7         7.78         26.5         6.63         9.97         11.2           TMCLKL         HY201208         2017-02-14         Mid-Ebb         Fine         Small wave         SR10A         Surface         1         1         152:1         17.6         7.72         26.5         6.74         8.66         11.3           TMCLKL         HY201208         2017-02-14         Mid-Ebb         Fine         Small wave         SR10A         Middle         6.5         2         1         152:1         17.7         7.66         26.6         6.82         8.83         11.2           TMCLKL         HY201206         2017-02-14         Mid-Ebb         Fine         Small wave         SR10A         Bottom         12         3         2         152:1         17.7         7.66         26.6         6.7         9.17         11.5           TMCLKL         HY201206         2017-02-16         Mid-Flood         Fine         Small wave         CS4         Surface         1         1         1         11.15         11.5         11.5									2.0	2	2		47.0	7 70		0.00	0.04	44.0
TMCLKL         HY/201208         2017-02-14         Mid-Ebb         Fine         Small wave         SR10A         Surface         1         1         152         17.6         7.72         28.5         6.74         3.66         11.3           TMCLKL         HY/201208         2017-02-14         Mid-Ebb         Fine         Small wave         SR10A         Middle         6.5         2         1         1.521         17.7         7.69         26.5         6.8         8.70         11.2           TMCLKL         HY/201208         2017-02-14         Mid-Ebb         Fine         Small wave         SR10A         Middle         6.5         2         1         1.521         17.7         7.66         26.5         6.7         9.17         1.15           TMCLKL         HY/201208         2017-02-16         Mid-Flood         Fine         Small wave         SR10A         Bottom         12         3         1         1.521         17.7         7.66         26.6         6.7         9.2         11.7           TMCLKL         HY/201208         2017-02-16         Mid-Flood         Fine         Small wave         CS4         Surface         1         1         1.515         17.8         7.8         28.1 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>3</td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>										3	1							
TMCLKL         HY201208         2017-02-14         Mid-Ebb         Fine         Small wave         SR10A         Murdae         1         2         15.21         17.5         7.42         26.5         6.76         8.7         11.1           TMCLKL         HY201208         2017-02-14         Mid-Ebb         Fine         Small wave         SR10A         Middle         6.5         2         1         15.21         17.7         7.59         26.6         6.8         8.79         11.2           TMCLKL         HY201208         2017-02-14         Mid-Ebb         Fine         Small wave         SR10A         Bottom         12         3         1         15.21         17.7         7.63         26.7         6.67         9.2         11.7           TMCLKL         HY201208         2017-02-16         Mid-Flood         Fine         Small wave         CS4         Surface         1         1         11.55         18         7.79         28         6.78         8.93         12.6           TMCLKL         HY201208         2017-02-16         Mid-Flood         Fine         Small wave         CS4         Middle         9         2         1         11.55         17.8         7.83         28.6										3	2							
TMCLKL         HY/201208         2017-02-14         Mid-Ebb         Fine         Small wave         SR10A         Middle         6.5         2         1         1521         17.7         7.59         26.6         6.8         8.79         11.2           TMCLKL         HY/201208         2017-02-14         Mid-Ebb         Fine         Small wave         SR10A         Bottom         12         3         1         16.21         17.6         17.6         6.6         6.7         9.17         11.5           TMCLKL         HY/201208         2017-02-16         Mid-Flood         Fine         Small wave         SR10A         Bottom         12         3         2         15.21         17.7         7.68         2.6         6.7         9.2         11.7           TMCLKL         HY/201208         2017-02-16         Mid-Flood         Fine         Small wave         CS4         Surface 1         1         11.155         17.8         7.8         2.8         6.78         8.93         12.6           TMCLKL         HY/201208         2017-02-16         Mid-Flood         Fine         Small wave         CS4         Niddle         9         2         11.55         17.8         7.81         2.8.3         6.6									1	1	1							
TMCLKL         HY201208         2017-02-14         Mid-Ebb         Fine         Small wave         SR10A         Middle         6.5         2         2         1521         17.6         7.56         28.6         6.87         9.17         11.5           MCLKL         HY201208         2017-02-14         Mid-Ebb         Fine         Small wave         SR10A         Bottom         12         3         1         1521         17.7         7.66         26.6         6.7         9.1         11.5           TMCLKL         HY201208         2017-02-16         Mid-Flood         Fine         Small wave         CS4         Surface         1         1         1         11.55         18         7.79         28         6.74         9.04         13.3           TMCLKL         HY201208         2017-02-16         Mid-Flood         Fine         Small wave         CS4         Middle         9         2         1         11.55         17.8         7.8         28.1         6.69         8.69         12.6           TMCLKL         HY201208         2017-02-16         Mid-Flood         Fine         Small wave         CS4         Bottom         16.9         3         1         11.55         17.8									1	1	2							
TMCLKL       HY/201208       2017-02-14       Mid-Ebb       Fine       Small wave       SR10A       Bottom       12       3       1       15.21       17.7       7.63       26.7       6.67       9.17       11.5         TMCLKL       HY/201208       2017-02-14       Mid-Flood       Fine       Small wave       CS4       Surface       1       1       11:55       18       7.79       28       6.78       8.93       12.6         TMCLKL       HY/201208       2017-02-16       Mid-Flood       Fine       Small wave       CS4       Middle       9       2       1       11:55       18       7.79       28.6       6.78       8.93       12.6         TMCLKL       HY/201208       2017-02-16       Mid-Flood       Fine       Small wave       CS4       Bottom       16.9       3       1       11:55       17.8       7.84       28.2       6.65       8.72       12.9       13.6         TMCLKL       HY/201208       2017-02-16       Mid-Flood       Fine       Small wave       CS4       Bottom       16.9       3       1       11:56       17.8       7.81       28.3       6.79       9.07       13.5         TMCLKL       HY/20120										2	1							
TMCLKL       HYZ01208       2017-02-14       Mid-Ebo       Fine       Small wave       SR10A       Bottom       12       3       2       15:21       17.7       7.66       26.6       6.7       9.2       11.7         TMCLKL       HYZ01208       2017-02-16       Mid-Flood       Fine       Small wave       CS4       Surface       1       1       11.55       18       7.70       28       6.76       8.93       12.6         TMCLKL       HYZ01208       2017-02-16       Mid-Flood       Fine       Small wave       CS4       Middle       9       2       1       11.55       17.8       7.8       28.1       6.69       8.69       12.6         TMCLKL       HYZ01208       2017-02-16       Mid-Flood       Fine       Small wave       CS4       Bottom       16.9       3       1       11.55       17.8       7.77       28.3       6.81       9.4       13.5         TMCLKL       HYZ01208       2017-02-16       Mid-Flood       Fine       Small wave       CS4       Bottom       16.9       3       1       11.55       17.8       7.77       28.3       6.87       9.41       13.5         TMCLKL       HYZ01208       2017-02-16<										2	2							
TMCLKL       HY201208       2017-02:16       Mid-Flood       Fine       Small wave       CS4       Surface       1       1       11.55       18       7.79       28       6.74       0.04       13.3         TMCLKL       HY2012/08       2017-02:16       Mid-Flood       Fine       Small wave       CS4       Surface       1       1       2       11:55       17.8       7.8       28       6.69       8:69       12.6         TMCLKL       HY2012/08       2017-02:16       Mid-Flood       Fine       Small wave       CS4       Middle       9       2       1       11:55       17.8       7.8       28.1       6.69       8:69       12.6         TMCLKL       HY2012/08       2017-02:16       Mid-Flood       Fine       Small wave       CS4       Bottom       16.9       3       1       11:55       17.8       7.81       28.3       6.81       9.4       13.6         TMCLKL       HY2012/08       2017-02:16       Mid-Flood       Fine       Small wave       CS6       Surface       1       1       09.32       17.9       7.88       27.8       7.01       9.13       13         TMCLKL       HY2012/08       2017-02:16       Mi										3	1							
TMCLKL       HY/201208       2017-02-16       Mid-Flood       Fine       Small wave       CS4       Middle       9       2       1       11.55       17.8       7.83       28.1       6.69       8.69       12.6         TMCLKL       HY/201208       2017-02-16       Mid-Flood       Fine       Small wave       CS4       Middle       9       2       11:55       17.9       7.84       28.1       6.69       8.69       12.6         TMCLKL       HY/201208       2017-02-16       Mid-Flood       Fine       Small wave       CS4       Bottom       16.9       3       1       11:55       17.8       7.77       28.3       6.81       9.4       13.6         TMCLKL       HY/201208       2017-02-16       Mid-Flood       Fine       Small wave       CS6       Surface       1       1       09:32       17.8       7.81       28.3       6.78       9.51       13.5         TMCLKL       HY/201208       2017-02-16       Mid-Flood       Fine       Small wave       CS6       Surface       1       1       09:32       17.9       7.78       28       6.86       9.48       13.6         TMCLKL       HY/201208       2017-02-16       Mid-Flood </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>12</td> <td>3</td> <td>2</td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td>									12	3	2			-				
TMCLKL       HY/2012/08       2017-02-16       Mid-Flood       Fine       Small wave       CS4       Middle       9       2       1       11:55       17.8       7.8       28.1       6.69       8.69       12.6         TMCLKL       HY/2012/08       2017-02-16       Mid-Flood       Fine       Small wave       CS4       Middle       9       2       11:55       17.8       7.7       28.3       6.81       9.4       13.6         TMCLKL       HY/2012/08       2017-02-16       Mid-Flood       Fine       Small wave       CS4       Bottom       16.9       3       1       11:55       17.8       7.7       28.3       6.81       9.4       13.6         TMCLKL       HY/2012/08       2017-02-16       Mid-Flood       Fine       Small wave       CS4       Bottom       16.9       3       1       11.55       17.8       7.8       28.7       6.97       9.07       13.3         TMCLKL       HY/2012/08       2017-02-16       Mid-Flood       Fine       Small wave       CS6       Niddle       6.9       2       09:32       17.9       7.78       28       6.86       9.48       13.6         TMCLKL       HY/2012/08       2017-02-16									1	1	1							
TMCLKL       HY/2012/08       2017-02-16       Mid-Flood       Fine       Small wave       CS4       Middle       9       2       2       11:55       17.9       7.84       28.2       6.65       8.72       12.9         TMCLKL       HY/2012/08       2017-02-16       Mid-Flood       Fine       Small wave       CS4       Bottom       16.9       3       1       11:55       17.8       7.77       28.3       6.78       9.51       13.6         TMCLKL       HY/2012/08       2017-02-16       Mid-Flood       Fine       Small wave       CS6       Surface       1       1       09.32       17.8       7.86       27.9       6.97       9.07       13.3         TMCLKL       HY/2012/08       2017-02-16       Mid-Flood       Fine       Small wave       CS6       Surface       1       1       09.32       17.9       7.78       28       6.86       9.48       13.6         TMCLKL       HY/2012/08       2017-02-16       Mid-Flood       Fine       Small wave       CS6       Middle       6.9       2       09.32       17.9       7.75       28       6.86       9.48       14.1         TMCLKL       HY/2012/08       2017-02-16       Mid-									1	1	2							
TMCLKL       HY/201208       2017-02-16       Mid-Flood       Fine       Small wave       CS4       Bottom       16.9       3       1       11:55       17.8       7.7       28.3       6.81       9.4       13.6         TMCLKL       HY/201208       2017-02-16       Mid-Flood       Fine       Small wave       CS4       Bottom       16.9       3       2       11.55       17.8       7.81       28.3       6.78       9.51       13.5         TMCLKL       HY/201208       2017-02-16       Mid-Flood       Fine       Small wave       CS6       Surface       1       1       09.32       17.9       7.89       27.8       7.01       9.13       13         TMCLKL       HY/201208       2017-02-16       Mid-Flood       Fine       Small wave       CS6       Middle       6.9       2       09.32       17.9       7.78       28       6.86       9.48       13.6         TMCLKL       HY/201208       2017-02-16       Mid-Flood       Fine       Small wave       CS6       Bottom       12.8       1       09.32       18       7.86       28.1       6.93       9.44       14.1         TMCLKL       HY/201208       2017-02-16       Mid-Flood										2	1							
TMCLKL       HY/2012/08       2017-02-16       Mid-Flood       Fine       Small wave       CS4       Bottom       16.9       3       2       11:55       17.8       7.81       28.3       6.78       9.51       13.5         TMCLKL       HY/2012/08       2017-02-16       Mid-Flood       Fine       Small wave       CS6       Surface       1       1       09:32       17.8       7.86       27.9       6.97       9.07       13.3         TMCLKL       HY/2012/08       2017-02-16       Mid-Flood       Fine       Small wave       CS6       Surface       1       1       09:32       17.9       7.78       28       6.86       9.48       13.6         TMCLKL       HY/2012/08       2017-02-16       Mid-Flood       Fine       Small wave       CS6       Bottom       12.8       1       09:32       17.9       7.75       28       6.86       9.48       14.1         TMCLKL       HY/2012/08       2017-02-16       Mid-Flood       Fine       Small wave       CS6       Bottom       12.8       1       1       09:32       18       7.89       28.1       6.96       9.92       14.7         TMCLKL       HY/2012/08       2017-02-16       Mi										2	2							
TMCLKL       HY/2012/08       2017-02-16       Mid-Flood       Fine       Small wave       CS6       Surface       1       1       09:32       17.8       7.86       27.9       6.97       9.07       13.3         TMCLKL       HY/2012/08       2017-02-16       Mid-Flood       Fine       Small wave       CS6       Surface       1       1       2       09:32       17.9       7.86       27.8       7.01       9.13       13         TMCLKL       HY/2012/08       2017-02-16       Mid-Flood       Fine       Small wave       CS6       Middle       6.9       2       09:32       17.9       7.75       28       6.86       9.48       13.6         TMCLKL       HY/2012/08       2017-02-16       Mid-Flood       Fine       Small wave       CS6       Bottom       12.8       3       1       09:32       18       7.86       28.1       6.96       9.92       14.7         TMCLKL       HY/2012/08       2017-02-16       Mid-Flood       Fine       Small wave       CS6       Bottom       12.8       3       2       09:32       18       7.86       28.1       6.75       9.27       12.8         TMCLKL       HY/2012/08       2017-02-16 <td></td> <td></td> <td></td> <td>Mid-Flood</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>3</td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>				Mid-Flood						3	1							
TMCLKL       HY/2012/08       2017-02-16       Mid-Flood       Fine       Small wave       CS6       Surface       1       1       2       09:32       17.9       7.89       27.8       7.01       9.13       13         TMCLKL       HY/2012/08       2017-02-16       Mid-Flood       Fine       Small wave       CS6       Middle       6.9       2       1       09:32       17.9       7.78       28       6.86       9.48       13.6         TMCLKL       HY/2012/08       2017-02-16       Mid-Flood       Fine       Small wave       CS6       Bottom       12.8       3       1       09:32       17.9       7.75       28       6.88       9.45       14.1         TMCLKL       HY/2012/08       2017-02-16       Mid-Flood       Fine       Small wave       CS6       Bottom       12.8       3       1       09:32       18       7.89       28.1       6.75       9.27       12.8         TMCLKL       HY/2012/08       2017-02-16       Mid-Flood       Fine       Small wave       IS12       Surface       1       1       11120       17.9       7.84       28       6.78       9.34       12.9         TMCLKL       HY/2012/08 <t< td=""><td></td><td></td><td></td><td>Mid-Flood</td><td></td><td></td><td></td><td></td><td>16.9</td><td>3</td><td>2</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>				Mid-Flood					16.9	3	2							
TMCLKL       HY/2012/08       2017-02-16       Mid-Flood       Fine       Small wave       CS6       Middle       6.9       2       1       09:32       17.9       7.78       28       6.86       9.48       13.6         TMCLKL       HY/2012/08       2017-02-16       Mid-Flood       Fine       Small wave       CS6       Middle       6.9       2       09:32       17.9       7.75       28       6.86       9.48       14.1         TMCLKL       HY/2012/08       2017-02-16       Mid-Flood       Fine       Small wave       CS6       Bottom       12.8       1       09:32       18       7.86       28.2       6.96       9.92       14.7         TMCLKL       HY/2012/08       2017-02-16       Mid-Flood       Fine       Small wave       IS12       Surface       1       1       11:20       17.9       7.84       28       6.75       9.27       12.8         TMCLKL       HY/2012/08       2017-02-16       Mid-Flood       Fine       Small wave       IS12       Surface       1       1       11:20       17.9       7.85       28.1       6.75       9.27       12.8         TMCLKL       HY/2012/08       2017-02-16       Mid-Flood									1	1	1			-				
TMCLKL       HY/2012/08       2017-02-16       Mid-Flood       Fine       Small wave       CS6       Middle       6.9       2       2       09:32       17.9       7.75       28       6.88       9.55       14.1         TMCLKL       HY/2012/08       2017-02-16       Mid-Flood       Fine       Small wave       CS6       Bottom       12.8       3       1       09:32       18       7.86       28.1       6.93       9.84       14.1         TMCLKL       HY/2012/08       2017-02-16       Mid-Flood       Fine       Small wave       CS6       Bottom       12.8       3       2       09:32       18       7.80       28.2       6.96       9.92       14.7         TMCLKL       HY/2012/08       2017-02-16       Mid-Flood       Fine       Small wave       IS12       Surface 1       1       1       11:20       18       7.9       28       6.75       9.27       12.8         TMCLKL       HY/2012/08       2017-02-16       Mid-Flood       Fine       Small wave       IS12       Middle       6.5       2       1       11:20       17.9       7.85       28.1       6.76       9.24       12.9         TMCLKL       HY/2012/08									1	1	2							
TMCLKL       HY/2012/08       2017-02-16       Mid-Flood       Fine       Small wave       CS6       Bottom       12.8       3       1       09:32       18       7.86       28.1       6.93       9.84       14.1         TMCLKL       HY/2012/08       2017-02-16       Mid-Flood       Fine       Small wave       CS6       Bottom       12.8       3       2       09:32       18       7.89       28.2       6.96       9.92       14.7         TMCLKL       HY/2012/08       2017-02-16       Mid-Flood       Fine       Small wave       IS12       Surface       1       1       1       11:20       17.9       7.84       28       6.75       9.27       12.8         TMCLKL       HY/2012/08       2017-02-16       Mid-Flood       Fine       Small wave       IS12       Surface       1       1       1       11:20       17.9       7.84       28       6.75       9.34       12.9         TMCLKL       HY/2012/08       2017-02-16       Mid-Flood       Fine       Small wave       IS12       Midelle       6.5       2       1       11:20       17.9       7.81       28.1       6.68       8.83       11.6       11.9       17.9       7.6										2	1							
TMCLKL       HY/2012/08       2017-02-16       Mid-Flood       Fine       Small wave       CS6       Bottom       12.8       3       2       09:32       18       7.89       28.2       6.96       9.92       14.7         TMCLKL       HY/2012/08       2017-02-16       Mid-Flood       Fine       Small wave       IS12       Surface       1       1       11:20       17.9       7.84       28       6.75       9.27       12.8         TMCLKL       HY/2012/08       2017-02-16       Mid-Flood       Fine       Small wave       IS12       Surface       1       1       11:20       17.9       7.84       28       6.75       9.34       12.9         TMCLKL       HY/2012/08       2017-02-16       Mid-Flood       Fine       Small wave       IS12       Middle       6.5       2       11       11:20       17.9       7.85       28.1       6.78       9.34       12.9         TMCLKL       HY/2012/08       2017-02-16       Mid-Flood       Fine       Small wave       IS12       Middle       6.5       2       11:20       17.9       7.76       28.3       6.83       9.62       12.9         TMCLKL       HY/2012/08       2017-02-16 <td< td=""><td>TMCLKL</td><td></td><td></td><td>Mid-Flood</td><td>Fine</td><td></td><td></td><td></td><td></td><td>2</td><td>2</td><td>09:32</td><td>17.9</td><td></td><td></td><td></td><td></td><td></td></td<>	TMCLKL			Mid-Flood	Fine					2	2	09:32	17.9					
TMCLKL       HY/2012/08       2017-02-16       Mid-Flood       Fine       Small wave       IS12       Surface       1       1       11:20       17.9       7.84       28       6.75       9.27       12.8         TMCLKL       HY/2012/08       2017-02-16       Mid-Flood       Fine       Small wave       IS12       Surface       1       1       2       11:20       18       7.9       28       6.78       9.34       12.9         TMCLKL       HY/2012/08       2017-02-16       Mid-Flood       Fine       Small wave       IS12       Middle       6.5       2       1       11:20       17.9       7.85       28.1       6.78       9.34       12.9         TMCLKL       HY/2012/08       2017-02-16       Mid-Flood       Fine       Small wave       IS12       Middle       6.5       2       1       11:20       17.9       7.85       28.1       6.78       9.34       12.9         TMCLKL       HY/2012/08       2017-02-16       Mid-Flood       Fine       Small wave       IS12       Bottom       12       3       1       11:20       17.9       7.76       28.3       6.83       9.62       12.9         TMCLKL       HY/2012/08	TMCLKL	HY/2012/08	2017-02-16	Mid-Flood	Fine			Bottom	12.8	3	1	09:32	18					
TMCLKL       HY/2012/08       2017-02-16       Mid-Flood       Fine       Small wave       IS12       Surface       1       1       2       11:20       18       7.9       28       6.78       9.34       12.9         TMCLKL       HY/2012/08       2017-02-16       Mid-Flood       Fine       Small wave       IS12       Middle       6.5       2       1       11:20       17.9       7.85       28.1       6.78       9.34       12.9         TMCLKL       HY/2012/08       2017-02-16       Mid-Flood       Fine       Small wave       IS12       Middle       6.5       2       1       12.0       17.9       7.85       28.1       6.68       8.83       11.6         TMCLKL       HY/2012/08       2017-02-16       Mid-Flood       Fine       Small wave       IS12       Bottom       12       3       1       11:20       17.9       7.6       28.3       6.83       9.62       12.9         TMCLKL       HY/2012/08       2017-02-16       Mid-Flood       Fine       Small wave       IS12       Bottom       12       3       2       11:20       18       7.76       28.3       6.86       9.69       13.3         TMCLKL       HY/20	TMCLKL	HY/2012/08	2017-02-16	Mid-Flood	Fine	Small wave	CS6	Bottom	12.8	3	2	09:32	18	7.89	28.2	6.96	9.92	14.7
TMCLKL       HY/2012/08       2017-02-16       Mid-Flood       Fine       Small wave       IS12       Middle       6.5       2       1       11:20       17.9       7.85       28.1       6.7       8.9       11.7         TMCLKL       HY/2012/08       2017-02-16       Mid-Flood       Fine       Small wave       IS12       Middle       6.5       2       2       11:20       17.9       7.81       28.1       6.68       8.83       11.6         TMCLKL       HY/2012/08       2017-02-16       Mid-Flood       Fine       Small wave       IS12       Bottom       12       3       1       11:20       17.9       7.76       28.3       6.83       9.62       12.9         TMCLKL       HY/2012/08       2017-02-16       Mid-Flood       Fine       Small wave       IS12       Bottom       12       3       1       11:20       17.9       7.76       28.3       6.86       9.69       13.3         TMCLKL       HY/2012/08       2017-02-16       Mid-Flood       Fine       Small wave       IS13       Surface       1       1       11:02       18       7.76       28       6.79       9.11       12.3         TMCLKL       HY/2012/08	TMCLKL	HY/2012/08	2017-02-16	Mid-Flood	Fine	Small wave	IS12	Surface	1	1	1	11:20	17.9	7.84	28	6.75	9.27	12.8
TMCLKL       HY/2012/08       2017-02-16       Mid-Flood       Fine       Small wave       IS12       Middle       6.5       2       2       11:20       17.9       7.81       28.1       6.68       8.83       11.6         TMCLKL       HY/2012/08       2017-02-16       Mid-Flood       Fine       Small wave       IS12       Bottom       12       3       1       11:20       17.9       7.6       28.3       6.83       9.62       12.9         TMCLKL       HY/2012/08       2017-02-16       Mid-Flood       Fine       Small wave       IS12       Bottom       12       3       2       11:20       17.9       7.6       28.3       6.83       9.62       12.9         TMCLKL       HY/2012/08       2017-02-16       Mid-Flood       Fine       Small wave       IS13       Surface       1       1       11:00       18       7.76       28.3       6.86       9.69       13.3         TMCLKL       HY/2012/08       2017-02-16       Mid-Flood       Fine       Small wave       IS13       Surface       1       1       11:02       18       7.6       28       6.73       8.87       12.5         TMCLKL       HY/2012/08       2017-02-16 <td>TMCLKL</td> <td>HY/2012/08</td> <td>2017-02-16</td> <td>Mid-Flood</td> <td>Fine</td> <td>Small wave</td> <td>IS12</td> <td>Surface</td> <td>1</td> <td>1</td> <td>2</td> <td>11:20</td> <td>18</td> <td>7.9</td> <td>28</td> <td>6.78</td> <td>9.34</td> <td>12.9</td>	TMCLKL	HY/2012/08	2017-02-16	Mid-Flood	Fine	Small wave	IS12	Surface	1	1	2	11:20	18	7.9	28	6.78	9.34	12.9
TMCLKL       HY/2012/08       2017-02-16       Mid-Flood       Fine       Small wave       IS12       Middle       6.5       2       2       11:20       17.9       7.81       28.1       6.68       8.83       11.6         TMCLKL       HY/2012/08       2017-02-16       Mid-Flood       Fine       Small wave       IS12       Bottom       12       3       1       11:20       17.9       7.6       28.3       6.83       9.62       12.9         TMCLKL       HY/2012/08       2017-02-16       Mid-Flood       Fine       Small wave       IS12       Bottom       12       3       2       11:20       17.9       7.6       28.3       6.83       9.69       13.3         TMCLKL       HY/2012/08       2017-02-16       Mid-Flood       Fine       Small wave       IS13       Surface       1       1       11:02       18       7.76       28.3       6.81       9.17       12.3         TMCLKL       HY/2012/08       2017-02-16       Mid-Flood       Fine       Small wave       IS13       Surface       1       1       1       11:02       18       7.6       28       6.73       8.87       12.5         TMCLKL       HY/2012/08       <	TMCLKL	HY/2012/08	2017-02-16	Mid-Flood	Fine	Small wave	IS12	Middle	6.5	2	1	11:20	17.9	7.85	28.1	6.7	8.9	11.7
TMCLKL       HY/2012/08       2017-02-16       Mid-Flood       Fine       Small wave       IS12       Bottom       12       3       1       11:20       17.9       7.6       28.3       6.83       9.62       12.9         TMCLKL       HY/2012/08       2017-02-16       Mid-Flood       Fine       Small wave       IS12       Bottom       12       3       2       11:20       18       7.77       28.3       6.86       9.69       13.3         TMCLKL       HY/2012/08       2017-02-16       Mid-Flood       Fine       Small wave       IS13       Surface       1       1       11:02       18       7.76       28.3       6.86       9.69       12.3         TMCLKL       HY/2012/08       2017-02-16       Mid-Flood       Fine       Small wave       IS13       Surface       1       1       11:02       18       7.76       28.3       6.81       9.17       12.3         TMCLKL       HY/2012/08       2017-02-16       Mid-Flood       Fine       Small wave       IS13       Surface       1       1       2       11:02       18       7.8       27.9       6.81       9.17       12.5         TMCLKL       HY/2012/08       2017-02-16	TMCLKL			Mid-Flood	Fine	Small wave	IS12			2	2	11:20	17.9			6.68		11.6
TMCLKL       HY/2012/08       2017-02-16       Mid-Flood       Fine       Small wave       IS12       Bottom       12       3       2       11:20       18       7.77       28.3       6.86       9.69       13.3         TMCLKL       HY/2012/08       2017-02-16       Mid-Flood       Fine       Small wave       IS13       Surface       1       1       11:02       18       7.76       28.3       6.86       9.69       12.3         TMCLKL       HY/2012/08       2017-02-16       Mid-Flood       Fine       Small wave       IS13       Surface       1       1       11:02       18       7.76       28       6.79       9.11       12.3         TMCLKL       HY/2012/08       2017-02-16       Mid-Flood       Fine       Small wave       IS13       Surface       1       1       11:02       18       7.8       27.9       6.81       9.17       12.5         TMCLKL       HY/2012/08       2017-02-16       Mid-Flood       Fine       Small wave       IS13       Midele       5.7       2       1       11:02       17.9       7.82       28.1       6.71       8.94       12.3         TMCLKL       HY/2012/08       2017-02-16       Mid-Flo	TMCLKL	HY/2012/08	2017-02-16	Mid-Flood	Fine	Small wave	IS12			3	1	11:20				6.83		
TMCLKL       HY/2012/08       2017-02-16       Mid-Flood       Fine       Small wave       IS13       Surface       1       1       11:02       18       7.76       28       6.79       9.11       12.3         TMCLKL       HY/2012/08       2017-02-16       Mid-Flood       Fine       Small wave       IS13       Surface       1       1       1:02       18       7.8       27.9       6.81       9.17       12.5         TMCLKL       HY/2012/08       2017-02-16       Mid-Flood       Fine       Small wave       IS13       Surface       1       1       11:02       18       7.8       27.9       6.81       9.17       12.5         TMCLKL       HY/2012/08       2017-02-16       Mid-Flood       Fine       Small wave       IS13       Middle       5.7       2       1       11:02       17.9       7.77       28       6.73       8.87       12         TMCLKL       HY/2012/08       2017-02-16       Mid-Flood       Fine       Small wave       IS13       Middle       5.7       2       11:02       17.9       7.82       28       6.71       8.94       12.3         TMCLKL       HY/2012/08       2017-02-16       Mid-Flood       Fine										3	2			-				
TMCLKL       HY/2012/08       2017-02-16       Mid-Flood       Fine       Small wave       IS13       Surface       1       2       11:02       18       7.8       27.9       6.81       9.17       12.5         TMCLKL       HY/2012/08       2017-02-16       Mid-Flood       Fine       Small wave       IS13       Middle       5.7       2       1       11:02       17.9       7.77       28       6.73       8.87       12         TMCLKL       HY/2012/08       2017-02-16       Mid-Flood       Fine       Small wave       IS13       Middle       5.7       2       1       11:02       17.9       7.77       28       6.73       8.87       12         TMCLKL       HY/2012/08       2017-02-16       Mid-Flood       Fine       Small wave       IS13       Middle       5.7       2       2       11:02       17.9       7.82       28       6.71       8.94       12.3         TMCLKL       HY/2012/08       2017-02-16       Mid-Flood       Fine       Small wave       IS13       Bottom       10.4       3       1       11:02       17.9       7.87       28.1       6.87       9.33       13.3									1	1	1							
TMCLKL       HY/2012/08       2017-02-16       Mid-Flood       Fine       Small wave       IS13       Middle       5.7       2       11:02       17.9       7.77       28       6.73       8.87       12         TMCLKL       HY/2012/08       2017-02-16       Mid-Flood       Fine       Small wave       IS13       Middle       5.7       2       11:02       17.9       7.82       28       6.73       8.87       12.3         TMCLKL       HY/2012/08       2017-02-16       Mid-Flood       Fine       Small wave       IS13       Bottom       10.4       3       11:02       17.9       7.87       28.1       6.87       9.33       13.3									1	1	2							
TMCLKL       HY/2012/08       2017-02-16       Mid-Flood       Fine       Small wave       IS13       Middle       5.7       2       2       11:02       17.9       7.82       28       6.71       8.94       12.3         TMCLKL       HY/2012/08       2017-02-16       Mid-Flood       Fine       Small wave       IS13       Bottom       10.4       3       1       11:02       17.9       7.87       28.1       6.87       9.33       13.3									5.7	2	1			-				
TMCLKL HY/2012/08 2017-02-16 Mid-Flood Fine Small wave IS13 Bottom 10.4 3 1 11:02 17.9 7.87 28.1 6.87 9.33 13.3										2	2							
										3	1							
					Fine					3	2					6.9	9.42	13.3

Project	Works	Date	Tide	Weather	Sea Condition	Stat	Level	Water Depth	Lev_Cod	Replicate	Time	Temp(°C)	рН	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)
TMCLKL	HY/2012/08	2017-02-16	Mid-Flood	Fine	Small wave	IS14	Surface	1	1	1	11:38	18	7.77	28	6.85	9.17	11.1
TMCLKL	HY/2012/08	2017-02-16	Mid-Flood	Fine	Small wave	IS14	Surface	1	1	2	11:38	18	7.81	27.9	6.81	9.25	11.6
TMCLKL	HY/2012/08	2017-02-16	Mid-Flood	Fine	Small wave	IS14	Middle	5.7	2	1	11:38	18	7.8	28.1	6.77	8.73	11.1
TMCLKL	HY/2012/08	2017-02-16	Mid-Flood	Fine	Small wave	IS14	Middle	5.7	2	2	11:38	17.9	7.78	28.1	6.73	8.8	10.7
TMCLKL	HY/2012/08	2017-02-16	Mid-Flood	Fine	Small wave	IS14	Bottom	10.4	3	1	11:38	18	7.67	28.2	6.67	9.46	11.7
TMCLKL	HY/2012/08	2017-02-16	Mid-Flood	Fine	Small wave	IS14	Bottom	10.4	3	2	11:38	18	7.74	28.3	6.64	9.52	12
TMCLKL	HY/2012/08	2017-02-16	Mid-Flood	Fine	Small wave	IS15	Surface	1	1	1	10:44	17.9	7.87	27.9	6.79	9.25	12.8
TMCLKL	HY/2012/08	2017-02-16	Mid-Flood	Fine	Small wave	IS15	Surface	1	1	2	10:44	18	7.9	27.9	6.75	9.31	12.8
TMCLKL	HY/2012/08	2017-02-16	Mid-Flood	Fine	Small wave	IS15	Middle	4.9	2	1	10:44	17.9	7.85	27.9	6.7	9.05	12.5
TMCLKL	HY/2012/08	2017-02-16	Mid-Flood	Fine	Small wave	IS15	Middle	4.9	2	2	10:44	17.9	7.8		6.67	8.97	12.1
TMCLKL	HY/2012/08	2017-02-16	Mid-Flood	Fine	Small wave	IS15	Bottom	8.7	3	1	10:44	18	7.94		6.78	9.41	13
TMCLKL	HY/2012/08	2017-02-16	Mid-Flood	Fine	Small wave	IS15		8.7	3	2	10:44	18	7.89		6.81	9.37	12.3
TMCLKL	HY/2012/08	2017-02-16	Mid-Flood	Fine	Small wave	SR8	Surface	1	1	1	10:14	18	7.78		6.95	9.05	11.6
TMCLKL	HY/2012/08	2017-02-16	Mid-Flood	Fine	Small wave	SR8	Surface	1	1	2	10:14	17.9		27.8	6.93	8.94	11.6
TMCLKL	HY/2012/08	2017-02-16	Mid-Flood	Fine	Small wave	SR8	Middle		2	1	10:14						
TMCLKL	HY/2012/08	2017-02-16	Mid-Flood	Fine	Small wave	SR8	Middle		2	2	10:14						+
TMCLKL	HY/2012/08	2017-02-16	Mid-Flood	Fine	Small wave	SR8		4.7	3	1	10:14	17.9	7.88	27.8	6.87	8.67	11.4
TMCLKL	HY/2012/08	2017-02-16	Mid-Flood	Fine	Small wave	SR8		4.7	3	2	10:14	17.9	7.84	27.8	6.83	8.6	10.9
TMCLKL	HY/2012/08	2017-02-16	Mid-Flood	Fine	Small wave	SR9	Surface	1	1	1	10:30	17.9	7.83		6.88	9.24	12.1
TMCLKL	HY/2012/08	2017-02-10	Mid-Flood	Fine	Small wave	SR9 SR9	Surface	1	1	2	10:30	17.9	7.88		6.84	9.16	11.8
TMCLKL	HY/2012/08	2017-02-10	Mid-Flood	Fine	Small wave	SR9	Middle		2	1	10:30	17.5	7.00	27.0	0.04	9.10	11.0
TMCLKL	HY/2012/08		Mid-Flood	Fine		SR9 SR9	Middle		2	2	10:30		<u> </u>				
		2017-02-16			Small wave			25	2	2	-	17.0	7 70	27.0	6 75	0.05	11 5
TMCLKL	HY/2012/08	2017-02-16	Mid-Flood	Fine	Small wave	SR9		3.5	3	1	10:30	17.9	7.79		6.75	9.05	11.5
TMCLKL	HY/2012/08	2017-02-16	Mid-Flood	Fine	Small wave	SR9	-	3.5	3	2	10:30	17.9	7.81		6.71	8.97	11.7
TMCLKL	HY/2012/08	2017-02-16	Mid-Flood	Fine	Small wave	SR10A	Surface	1	1	1	09:57	17.9	7.93		6.85	9.34	12.1
TMCLKL	HY/2012/08	2017-02-16	Mid-Flood	Fine	Small wave	SR10A	Surface	1	1	2	09:57	17.9		27.8	6.83	9.41	12.2
TMCLKL	HY/2012/08		Mid-Flood	Fine			Middle	7	2	1		17.9	7.76		6.77	9.63	12.4
TMCLKL	HY/2012/08	2017-02-16	Mid-Flood	Fine	Small wave		Middle	7	2	2	-	17.9	8		6.74	9.55	12.5
TMCLKL	HY/2012/08	2017-02-16	Mid-Flood	Fine	Small wave		Bottom	12.9	3	1	-	17.9			6.63	9.9	12.9
TMCLKL	HY/2012/08	2017-02-16	Mid-Flood	Fine	Small wave		Bottom	12.9	3	2	09:57	18		28.1	6.66	9.97	12.8
TMCLKL	HY/2012/08	2017-02-16	Mid-Ebb	Fine	Small wave	CS4	Surface	1	1	1	14:32	18.2		27.8	6.91	9.12	13.2
TMCLKL	HY/2012/08	2017-02-16	Mid-Ebb	Fine	Small wave	CS4	Surface	1	1	2	14:32	18.2	7.85		6.8	9.23	13
TMCLKL	HY/2012/08	2017-02-16	Mid-Ebb	Fine	Small wave	CS4	Middle	8.3	2	1	14:32	18.3	7.83	27.8	6.8	9.5	14
TMCLKL	HY/2012/08	2017-02-16	Mid-Ebb	Fine	Small wave	CS4	Middle	8.3	2	2	14:32	18.2	7.92	27.9	6.85	9.41	13.4
TMCLKL	HY/2012/08	2017-02-16	Mid-Ebb	Fine	Small wave	CS4	Bottom	16.6	3	1	14:32	18.3	7.94	28	6.8	9.4	13.4
TMCLKL	HY/2012/08	2017-02-16	Mid-Ebb	Fine	Small wave	CS4	Bottom	16.6	3	2	14:32	18.3	7.83	28	6.83	9.37	13.8
TMCLKL	HY/2012/08	2017-02-16	Mid-Ebb	Fine	Small wave	CS6	Surface	1	1	1	16:50	18.3	7.86	28	6.91	9.36	14
TMCLKL	HY/2012/08	2017-02-16	Mid-Ebb	Fine	Small wave	CS6	Surface	1	1	2	16:50	18.3	7.74	28	6.81	9.51	14.2
TMCLKL	HY/2012/08	2017-02-16	Mid-Ebb	Fine		CS6		5.7	2	1	16:50	18.3			6.7	9.41	13.6
TMCLKL	HY/2012/08	2017-02-16	Mid-Ebb	Fine	Small wave	CS6		5.7	2	2	16:50	18.2			6.93	9.47	13.9
TMCLKL	HY/2012/08	2017-02-16	Mid-Ebb	Fine	Small wave	CS6	-	11.4	3	1	16:50	18.1			6.93	9.18	13.1
TMCLKL	HY/2012/08	2017-02-16	Mid-Ebb	Fine	Small wave	CS6	Bottom	11.4	3	2	16:50	18.1			6.76	9.25	13.3
TMCLKL	HY/2012/08	2017-02-16	Mid-Ebb	Fine	Small wave	IS12	Surface	1	1	1	15:08	18.3			6.8	9.39	12.9
TMCLKL	HY/2012/08	2017-02-16	Mid-Ebb	Fine		IS12	Surface	1	1	2	15:08	18.2			6.77	9.21	12.7
TMCLKL	HY/2012/08	2017-02-16	Mid-Ebb	Fine		IS12		5.8	2	1	15:08	18.1			6.91	9.33	12.9
TMCLKL	HY/2012/08	2017-02-10	Mid-Ebb	Fine	Small wave	IS12 IS12		5.8	2	2	15:08	18.3			6.79	9.4	12.5
TMCLKL	HY/2012/08	2017-02-10	Mid-Ebb	Fine	Small wave	IS12 IS12	Bottom	5.6 11.6	3	1	15:08	18.3		28	6.86	9.09	12.1
TMCLKL	HY/2012/08	2017-02-10	Mid-Ebb	Fine	Small wave	IS12 IS12	Bottom	11.6	3	2	15:08	18.2		27.8	6.72	9.23	12.1
TMCLKL	HY/2012/08	2017-02-16	Mid-Ebb	Fine		IS12 IS13		1	1	<u>-</u> 1	15:00	18.2			6.8	9.23	13.2
					Small wave		Surface	1	1	2							
	HY/2012/08	2017-02-16	Mid-Ebb	Fine	Small wave	IS13	Surface	 	2	4	15:27	18.2	8		6.83 6.9	9.48	12.8
TMCLKL	HY/2012/08	2017-02-16	Mid-Ebb	Fine		IS13		5.1	2			18			6.8	9.36	12.8
TMCLKL	HY/2012/08	2017-02-16	Mid-Ebb	Fine	Small wave	IS13		5.1	2	2	15:27	18			6.78	9.34	13.2
TMCLKL	HY/2012/08	2017-02-16	Mid-Ebb	Fine	Small wave	IS13	Bottom	10.2	3	1	15:27	18.2			6.79	9.3	12.7
TMCLKL	HY/2012/08	2017-02-16	Mid-Ebb	Fine	Small wave	IS13	Bottom	10.2	3	2	15:27	18.3			6.84	9.27	13.1
TMCLKL			Mid-Ebb	Fine			Surface	1	1	1		18.2			6.81	9.11	11.2
TMCLKL	HY/2012/08	2017-02-16	Mid-Ebb	Fine	Small wave	IS14	Surface	1	1	2	14:51	18.3	7.8	28.1	6.77	9.16	11.5

Project	Works	Date	Tide	Weather	Sea Condition	Stat	Level	Water Depth	Lev_Cod	Replicate	Time	Temp(°C)	рН	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)
TMCLKL	HY/2012/08	2017-02-16	Mid-Ebb	Fine	Small wave	IS14	Middle	5	2	1	14:51	18.2	7.75	27.9	6.93	9.2	11.4
TMCLKL	HY/2012/08	2017-02-16	Mid-Ebb	Fine	Small wave	IS14	Middle	5	2	2	14:51	18.2	7.82	28	6.87	9.1	11.2
TMCLKL	HY/2012/08	2017-02-16	Mid-Ebb	Fine	Small wave	IS14	Bottom	10	3	1	14:51	18.3	7.61	28	6.94	9.23	11.8
TMCLKL	HY/2012/08	2017-02-16	Mid-Ebb	Fine	Small wave	IS14	Bottom	10	3	2	14:51	18.3	7.81	27.9	6.9	9.11	11.4
TMCLKL	HY/2012/08	2017-02-16	Mid-Ebb	Fine	Small wave	IS15	Surface	1	1	1	15:45	18.4	7.68	28	6.69	9.1	12.3
TMCLKL	HY/2012/08	2017-02-16	Mid-Ebb	Fine	Small wave	IS15	Surface	1	1	2	15:45	18.4	7.76	28.1	6.81	9.18	12.6
TMCLKL	HY/2012/08	2017-02-16	Mid-Ebb	Fine	Small wave	IS15	Middle	4.2	2	1	15:45	18.2	7.8	27.9	6.7	9.07	12.1
TMCLKL	HY/2012/08	2017-02-16	Mid-Ebb	Fine	Small wave	IS15	Middle	4.2	2	2	15:45	18.3	7.88	27.9	6.83	9.17	12.5
TMCLKL	HY/2012/08	2017-02-16	Mid-Ebb	Fine	Small wave	IS15	Bottom	8.3	3	1	15:45	18.3	7.8	27.9	6.8	9.2	12.4
TMCLKL	HY/2012/08	2017-02-16	Mid-Ebb	Fine	Small wave	IS15		8.3	3	2	15:45	18.3	7.71	28	6.75	9.18	12.6
TMCLKL	HY/2012/08	2017-02-16	Mid-Ebb	Fine	Small wave	SR8	Surface	1	1	1	16:15	18	7.83	28	6.35	9.14	11.6
TMCLKL	HY/2012/08	2017-02-16	Mid-Ebb	Fine	Small wave	SR8	Surface	1	1	2	16:15	17.9		27.9	6.7	9.1	11.7
TMCLKL	HY/2012/08	2017-02-16	Mid-Ebb	Fine	Small wave	SR8	Middle		2	1	16:15						
TMCLKL	HY/2012/08	2017-02-16	Mid-Ebb	Fine	Small wave	SR8	Middle		2	2	16:15						
TMCLKL	HY/2012/08	2017-02-16	Mid-Ebb	Fine	Small wave	SR8		4.3	3	1	16:15	18.1	7.69	27.9	6.8	9.25	12.3
TMCLKL	HY/2012/08	2017-02-16	Mid-Ebb	Fine	Small wave	SR8		4.3	3	2	16:15	18.1	7.77	28.1	6.72	9.29	11.9
TMCLKL	HY/2012/08	2017-02-16	Mid-Ebb	Fine	Small wave	SR9	Surface	1	1	1	16:03	18.3	7.77	27.8	6.83	9.29	12.2
TMCLKL	HY/2012/08	2017-02-16	Mid-Ebb	Fine	Small wave	SR9	Surface	1	1	2	16:03	18.3	7.89	27.9	6.88	9.29	11.9
TMCLKL	HY/2012/08	2017-02-16	Mid-Ebb	Fine	Small wave	SR9	Middle		2	1	16:03						
TMCLKL	HY/2012/08	2017-02-16	Mid-Ebb	Fine	Small wave	SR9	Middle		2	2	16:03	1	1		1		1
TMCLKL	HY/2012/08	2017-02-16	Mid-Ebb	Fine	Small wave	SR9		3.2	3	1	16:03	18.3	7.68	27.9	6.79	9.41	12.3
TMCLKL	HY/2012/08	2017-02-16	Mid-Ebb	Fine	Small wave	SR9		3.2	3	2	16:03	18.2	7.77	27.9	6.82	9.31	12.2
TMCLKL	HY/2012/08	2017-02-16	Mid-Ebb	Fine	Small wave	SR10A	Surface	1	1	1	16:29	18.3		27.8	6.68	9.4	12.5
TMCLKL	HY/2012/08	2017-02-16	Mid-Ebb	Fine	Small wave	SR10A	Surface	1	1	2	16:29	18.4	7.79	27.9	6.79	9.38	12.0
TMCLKL	HY/2012/08	2017-02-16	Mid-Ebb	Fine	Small wave	SR10A		6.2	2	1	16:29	18.3	7.68	27.8	6.8	9.08	11.8
TMCLKL		2017-02-10	Mid-Ebb	Fine	Small wave	SR10A		6.2 6.2	2	2	16:29	18.3		27.9	6.74	9.17	12.2
			Mid-Ebb	Fine			Bottom		2	1	1	18.2	7.82		6.75	9.21	11.8
TMCLKL		2017-02-10	Mid-Ebb	Fine				12.4	3	2	16:29	18.3	7.76		6.89	9.24	12.3
		2017-02-10	Mid-Flood	Fine		CS4	Surface	12.4	J 1	1		17.4		26.5	6.88	8.84	12.6
TMCLKL	HY/2012/08	2017-02-18	Mid-Flood	Fine		CS4 CS4	Surface	1	1	2	12:52	17.5		26.5	6.83	8.81	12.5
TMCLKL	HY/2012/08	2017-02-18	Mid-Flood			CS4 CS4		0.0	2	۲ ۱	12:52				6.67	8.55	12.5
	HY/2012/08	2017-02-18	Mid-Flood	Fine Fine		CS4 CS4		8.9 8.9	2	2		17.5 17.5		26.6 26.7	6.69	8.59	12.5
								0.9 16.7	2	۲ ۲						8.65	
	HY/2012/08	2017-02-18	Mid-Flood	Fine		CS4			ა ი			17.6		26.6	6.57 6.54		12.3
			Mid-Flood	Fine		CS4		16.7	3	2		17.6		26.6	6.54	8.68	12.7
	HY/2012/08	2017-02-18	Mid-Flood	Fine		CS6	Surface	1	1			17.2	-	26.4	6.63 6.67	8.61	12.7
	HY/2012/08	2017-02-18	Mid-Flood	Fine		CS6	Surface		1	2	10:36	17.3		26.5	6.67	8.64	13
	HY/2012/08		Mid-Flood	Fine		CS6		6.9 C.O	2			17.4	-	26.5	6.82	8.78	13.2
	HY/2012/08	2017-02-18	Mid-Flood	Fine		CS6		6.9	2	2		17.5		26.6	6.85	8.8	12.9
			Mid-Flood	Fine		CS6		12.7	<u>ა</u>			17.6	-	26.7	6.77	9.33	13.3
			Mid-Flood	Fine		CS6		12.7	<u>კ</u>	2		17.6		26.8	6.79	9.38	13.6
	HY/2012/08	2017-02-18	Mid-Flood	Fine		IS12	Surface	1	1			17.4		26.5	6.74	8.77	11.7
	HY/2012/08	2017-02-18	Mid-Flood	Fine			Surface	1	1	2		17.5		26.4	6.77	8.73	11.8
		2017-02-18	Mid-Flood	Fine		IS12		6.1	2			17.5		26.5	6.58	8.89	12.2
TMCLKL		2017-02-18	Mid-Flood	Fine		IS12		6.1	2	2		17.6	7.9	26.6	6.6	8.94	11.8
TMCLKL			Mid-Flood	Fine		IS12		11.2	3	1	12:17		-	26.7	6.83	9.14	12.6
TMCLKL		2017-02-18	Mid-Flood	Fine		IS12		11.2	3	2		17.5		26.6	6.88	9.18	12.1
TMCLKL		2017-02-18	Mid-Flood	Fine		IS13	Surface	1	1	1		17.4		26.4	6.71	8.84	12.2
TMCLKL	HY/2012/08	2017-02-18	Mid-Flood	Fine		IS13	Surface	1	1	2	11:59	17.4		26.5	6.76	8.87	12.4
TMCLKL	HY/2012/08	2017-02-18	Mid-Flood	Fine		IS13		5.1	2	1	11:59	17.5	-	26.5	6.69	8.63	11.6
TMCLKL	HY/2012/08	2017-02-18	Mid-Flood	Fine		IS13		5.1	2	2		17.6		26.5	6.64	8.67	11.8
TMCLKL			Mid-Flood	Fine		IS13		9.2	3	1		17.6		26.6	6.52	8.75	11.9
TMCLKL	HY/2012/08	2017-02-18	Mid-Flood	Fine	Small wave	IS13	Bottom	9.1	3	2	11:59	17.7		26.7	6.55	8.79	12
TMCLKL	HY/2012/08	2017-02-18	Mid-Flood	Fine	Small wave	IS14	Surface	1	1	1	12:35	17.5		26.4	6.91	8.7	10.8
TMCLKL		2017-02-18	Mid-Flood	Fine	Small wave	IS14	Surface	1	1	2	12:35	17.4	7.89	26.5	6.94	8.74	10.8
		2017-02-18		Fine			Middle		2	1		17.6	7.64		6.73	8.47	10.8
TMCLKI	HY/2012/08	2017-02-18	Mid-Flood	Fine	Small wave	IS14	Middle	5.8	2	2	12:35	17.6	7.68	26.6	6.77	8.5	10.5

Project	Works	Date	Tide	Weather	Sea Condition	Stat	Level	Water Depth	Lev_Cod	Replicate	Time	Temp(°C)	рН	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)
TMCLKL	HY/2012/08	2017-02-18	Mid-Flood	Fine	Small wave	IS14	Bottom	10.6	3	1	12:35	17.7	7.58	26.7	6.83	8.95	11.1
TMCLKL	HY/2012/08	2017-02-18	Mid-Flood	Fine	Small wave	IS14	Bottom	10.6	3	2	12:35	17.7	7.62	26.6	6.87	8.97	10.8
TMCLKL	HY/2012/08	2017-02-18	Mid-Flood	Fine	Small wave	IS15	Surface	1	1	1	11:42	17.4	7.8	26.4	6.63	8.7	12
TMCLKL	HY/2012/08	2017-02-18	Mid-Flood	Fine	Small wave	IS15	Surface	1	1	2	11:42	17.5	7.84	26.5	6.67	8.74	11.9
TMCLKL	HY/2012/08	2017-02-18	Mid-Flood	Fine	Small wave	IS15	Middle	4.7	2	1	11:42	17.5	7.51	26.5	6.74	8.65	11.5
TMCLKL	HY/2012/08	2017-02-18	Mid-Flood	Fine	Small wave	IS15	Middle	4.7	2	2	11:42	17.4	7.54	26.6	6.78	8.67	11.5
TMCLKL	HY/2012/08	2017-02-18	Mid-Flood	Fine	Small wave	IS15	Bottom	8.4	3	1	11:42	17.5	7.79	26.7	6.83	8.87	12.3
TMCLKL	HY/2012/08	2017-02-18	Mid-Flood	Fine	Small wave	IS15	Bottom	8.4	3	2	11:42	17.6	7.81	26.6	6.87	8.9	12
TMCLKL	HY/2012/08	2017-02-18	Mid-Flood	Fine	Small wave	SR8	Surface	1	1	1	11:08	17.3	7.76	26.5	6.81	8.3	10.5
TMCLKL	HY/2012/08	2017-02-18	Mid-Flood	Fine	Small wave	SR8	Surface	1	1	2	11:08	17.4	7.79	26.6	6.84	8.34	10.5
TMCLKL	HY/2012/08	2017-02-18	Mid-Flood	Fine	Small wave	SR8	Middle		2	1	11:08						
TMCLKL	HY/2012/08	2017-02-18	Mid-Flood	Fine	Small wave	SR8	Middle		2	2	11:08						
TMCLKL	HY/2012/08	2017-02-18	Mid-Flood	Fine	Small wave	SR8	Bottom	4.6	3	1	11:08	17.4	7.63	26.6	6.72	8.59	11.4
TMCLKL	HY/2012/08	2017-02-18	Mid-Flood	Fine	Small wave	SR8	Bottom	4.6	3	2	11:08	17.5	7.65	26.6	6.74	8.64	11.2
TMCLKL	HY/2012/08	2017-02-18	Mid-Flood	Fine	Small wave	SR9	Surface	1	1	1	11:26	17.4	7.68	26.5	6.74	8.61	10.8
TMCLKL	HY/2012/08	2017-02-18	Mid-Flood	Fine	Small wave	SR9	Surface	1	1	2	11:26	17.3	7.64	26.5	6.78	8.65	11.2
TMCLKL	HY/2012/08	2017-02-18	Mid-Flood	Fine	Small wave	SR9	Middle		2	1	11:26						
TMCLKL	HY/2012/08	2017-02-18	Mid-Flood	Fine	Small wave	SR9	Middle		2	2	11:26	1	1	1	1	1	
TMCLKL	HY/2012/08	2017-02-18	Mid-Flood	Fine	Small wave	SR9	Bottom	3.8	3	1	11:26	17.4	7.57	26.6	6.82	8.72	11
TMCLKL	HY/2012/08	2017-02-18	Mid-Flood	Fine	Small wave	SR9	Bottom	3.8	3	2	11:26	17.4	7.6	26.7	6.85	8.74	10.9
TMCLKL	HY/2012/08	2017-02-18	Mid-Flood	Fine	Small wave	SR10A	Surface	1	1	1	10:51	17.3	7.63	26.5	6.77	8.54	10.8
TMCLKL	HY/2012/08	2017-02-18	Mid-Flood	Fine	Small wave		Surface	1	1	2		17.3	7.67	26.5	6.71	8.57	11.2
TMCLKL	HY/2012/08	2017-02-18	Mid-Flood	Fine	Small wave	SR10A		6.6	2	1	10:51	17.4	7.75	26.6	6.86	8.64	11.2
TMCLKL	HY/2012/08	2017-02-18	Mid-Flood	Fine	Small wave	SR10A	Middle	6.6	2	2	10:51	17.5	7.7	26.7	6.89	8.69	11.4
TMCLKL	HY/2012/08	2017-02-18	Mid-Flood	Fine	Small wave	SR10A	Bottom	12.2	3	1	10:51	17.6	7.85	26.4	6.57	8.99	11.3
TMCLKL	HY/2012/08	2017-02-18	Mid-Flood	Fine			Bottom	12.2	3	2		17.5		26.5	6.6	8.95	11.3
TMCLKL	HY/2012/08	2017-02-18	Mid-Ebb	Fine		CS4	Surface		1	1	16:19		7.78		6.76	8.97	12.7
TMCLKL	HY/2012/08	2017-02-18	Mid-Ebb	Fine		CS4	Surface	1	1	2		17.6		26.1	6.75	8.98	12.9
TMCLKL	HY/2012/08	2017-02-18	Mid-Ebb	Fine		CS4		8.6	2	1		17.5	7.5	26.2	6.48	8.66	12.2
TMCLKL	HY/2012/08	2017-02-18	Mid-Ebb	Fine		CS4		8.6	2	2		17.5		26.3	6.49	8.65	12.7
TMCLKL	HY/2012/08	2017-02-18	Mid-Ebb	Fine	Small wave	CS4	Bottom	16.2	3	1		17.6		26.3	6.32	8.89	12.6
TMCLKL	HY/2012/08	2017-02-18	Mid-Ebb	Fine	Small wave	CS4	Bottom	16.1	3	2		17.6		26.3	6.34	8.91	12.5
TMCLKL	HY/2012/08	2017-02-18	Mid-Ebb	Fine		CS6	Surface	1	1	1		17.6		26.2	6.5	8.78	13.2
TMCLKL	HY/2012/08	2017-02-18	Mid-Ebb	Fine		CS6	Surface	1	1	2		17.7		26.3	6.49	8.79	12.8
TMCLKL	HY/2012/08	2017-02-18	Mid-Ebb	Fine		CS6		6.7	2	1		17.7		26.3	6.66	8.9	12.9
TMCLKL	HY/2012/08	2017-02-18	Mid-Ebb	Fine	Small wave	CS6		6.7	2	2		17.8		26.4	6.67	8.92	13.1
TMCLKL	HY/2012/08	2017-02-18	Mid-Ebb	Fine		CS6	Bottom	12.3	3	1		17.9		26.4	6.55	9.55	13.6
TMCLKL	HY/2012/08	2017-02-18	Mid-Ebb	Fine		CS6	Bottom	12.3	3	2		18	7.43		6.56	9.57	13.7
TMCLKL	HY/2012/08	2017-02-18	Mid-Ebb	Fine		IS12	Surface	1	1	1		17.6		26.2	6.63	8.99	11.9
TMCLKL	HY/2012/08	2017-02-18	Mid-Ebb	Fine	Small wave	IS12	Surface	1	1	2	17:02	17.7		26.2	6.64	9.01	12.4
TMCLKL	HY/2012/08	2017-02-18	Mid-Ebb	Fine	Small wave	IS12	Middle	6	2	1	17:02	17.7		26.2	6.49	9.04	12.1
TMCLKL	HY/2012/08	2017-02-18	Mid-Ebb	Fine	Small wave	IS12	Middle	6	2	2		17.8		26.2	6.5	9.05	12.2
TMCLKL	HY/2012/08	2017-02-18	Mid-Ebb	Fine	Small wave	IS12 IS12	Bottom	0 11	2	1		17.8		26.3	6.79	9.03	12.2
TMCLKL	HY/2012/08	2017-02-18	Mid-Ebb	Fine		IS12 IS12	Bottom	11	3	2		17.8		26.3	6.81	9.23	12.4
TMCLKL	HY/2012/08	2017-02-18	Mid-Ebb	Fine	Small wave	IS12	Surface	1	1	1		17.6		26.3	6.53	8.97	12.0
TMCLKL	HY/2012/08	2017-02-18	Mid-Ebb	Fine	Small wave	IS13 IS13	Surface	1	1	2	17:18	17.0	7.6		6.55	8.98	12.6
TMCLKL	HY/2012/08	2017-02-18	Mid-Ebb	Fine	Small wave	IS13 IS13	-	1 5.1	2	<u>-</u> 1		17.7		26.3 26.3	6.41	8.71	12.0
TMCLKL	HY/2012/08	2017-02-18	Mid-Ebb	Fine	Small wave	IS13 IS13		5.1 5.1	2 2	2		17.6		26.3 26.4	6.39	8.76	12.2
TMCLKL	HY/2012/08	2017-02-18	Mid-Ebb	Fine	Small wave	IS13 IS13		9.1	۲ ک	<u>د</u> 1		17.0		26.4 26.4	6.28	8.55	12.2
TMCLKL	HY/2012/08	2017-02-18	Mid-Ebb	Fine	Small wave	IS13 IS13		9.1 9.1	3 3	2		17.7		26.4 26.4	6.28 6.29	8.55 8.57	11.5
				Fine			-	ฮ. I 1	J 1	<u>د</u> 1			7.67		6.71		12
	HY/2012/08	2017-02-18	Mid-Ebb		Small wave	IS14	Surface	1	1			17.6		26.1		8.95	
	HY/2012/08	2017-02-18	Mid-Ebb	Fine	Small wave	IS14	Surface	1	2	4		17.6		26.2	6.72	8.96	11.2
	HY/2012/08	2017-02-18	Mid-Ebb	Fine	Small wave	IS14		5.7 5.7	2			17.6		26.2	6.93 6.0	8.69	11
	HY/2012/08	2017-02-18	Mid-Ebb	Fine	Small wave	IS14		5.7	2	4		17.7	7.44	26.1	6.9 6.45	8.71	11
	HY/2012/08	2017-02-18	Mid-Ebb	Fine				10.4	ა ი		16:42		7.87		6.45	9.11	11.7
TMCLKL	HY/2012/08	2017-02-18	IVIIO-EDD	Fine	Small wave	IS14	Bottom	10.4	3	2	16:42	17.7	7.86	26.2	6.44	9.13	11

Project	Works	Date	Tide	Weather	Sea Condition	Stat	Level	Water Depth	Lev_Cod	Replicate	Time	Temp(°C)	рН	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)
TMCLKL	HY/2012/08	2017-02-18	Mid-Ebb	Fine	Small wave	IS15	Surface	1	1	1	17:35	17.8	7.99	26.2	6.44	8.88	11.8
TMCLKL	HY/2012/08	2017-02-18	Mid-Ebb	Fine	Small wave	IS15	Surface	1	1	2	17:35	17.7	8.01	26.3	6.42	8.87	12.3
TMCLKL	HY/2012/08	2017-02-18	Mid-Ebb	Fine	Small wave	IS15	Middle	4.5	2	1	17:35	17.7	7.63	26.3	6.37	8.7	11.5
TMCLKL	HY/2012/08	2017-02-18	Mid-Ebb	Fine	Small wave	IS15	Middle	4.5	2	2	17:35	17.7	7.67	26.3	6.39	8.69	11.5
TMCLKL	HY/2012/08	2017-02-18	Mid-Ebb	Fine	Small wave	IS15	Bottom	8	3	1	17:35	17.7	7.88	26.4	6.75	8.95	12.1
TMCLKL	HY/2012/08	2017-02-18	Mid-Ebb	Fine	Small wave	IS15	Bottom	8	3	2	17:35	17.8	7.89	26.5	6.76	8.96	11.8
TMCLKL	HY/2012/08	2017-02-18	Mid-Ebb	Fine	Small wave	SR8	Surface	1	1	1	18:05	17.7	7.63	26.4	6.93	8.39	10.5
TMCLKL	HY/2012/08	2017-02-18	Mid-Ebb	Fine	Small wave	SR8	Surface	1	1	2	18:05	17.7	7.65	26.4	6.95	8.4	11
TMCLKL	HY/2012/08	2017-02-18	Mid-Ebb	Fine	Small wave	SR8	Middle		2	1	18:05						
TMCLKL	HY/2012/08	2017-02-18	Mid-Ebb	Fine	Small wave	SR8	Middle		2	2	18:05						
TMCLKL	HY/2012/08	2017-02-18	Mid-Ebb	Fine	Small wave	SR8	Bottom	4.4	3	1	18:05	17.8	7.83	26.4	6.62	8.66	11.4
TMCLKL	HY/2012/08	2017-02-18	Mid-Ebb	Fine	Small wave	SR8	Bottom	4.4	3	2	18:05	17.8	7.81	26.5	6.64	8.67	11.4
TMCLKL	HY/2012/08	2017-02-18	Mid-Ebb	Fine	Small wave		Surface	1	1	1	17:50	17.7	7.59	26.3	6.55	8.7	11
TMCLKL	HY/2012/08	2017-02-18	Mid-Ebb	Fine	Small wave	SR9	Surface	1	1	2	17:50	17.7	7.58	26.2	6.54	8.72	10.9
TMCLKL	HY/2012/08	2017-02-18	Mid-Ebb	Fine	Small wave	SR9	Middle		2	1	17:50						
TMCLKL	HY/2012/08	2017-02-18	Mid-Ebb	Fine	Small wave	SR9	Middle		2	2	17:50						
TMCLKL	HY/2012/08	2017-02-18	Mid-Ebb	Fine	Small wave	SR9		3.6	3	1	17:50	17.8	7.78	26.4	6.93	8.95	11.6
TMCLKL	HY/2012/08	2017-02-18	Mid-Ebb	Fine	Small wave	SR9		3.6	3	2	17:50	17.7	7.79	26.3	6.91	8.94	11.1
TMCLKL	HY/2012/08	2017-02-18	Mid-Ebb	Fine	Small wave	SR10A	Surface	1	1	1	18:20	17.6	7.6	26.3	6.59	8.77	11.3
TMCLKL	HY/2012/08	2017-02-18	Mid-Ebb	Fine	Small wave	SR10A	Surface	1	1	2	18:20	17.6	7.58	26.3	6.61	8.78	11.2
TMCLKL	HY/2012/08	2017-02-18	Mid-Ebb	Fine	Small wave			6.5	2	1	18:20	17.7	7.65	26.4	6.75	8.68	11.4
TMCLKL	HY/2012/08	2017-02-18	Mid-Ebb	Fine	Small wave		-	6.5	2	2	18:20	17.7	7.68	26.5	6.77	8.7	11.4
TMCLKL	HY/2012/08	2017-02-18	Mid-Ebb	Fine	Small wave	SR10A	Bottom	12	3	1	18:20	17.6	7.79	26.5	6.48	9.03	11.9
TMCLKL	HY/2012/08	2017-02-18	Mid-Ebb	Fine	Small wave		Bottom	12	3	2	18:20	17.7	7.8	26.5	6.49	9.04	11.6
TMCLKL	HY/2012/08	2017-02-21	Mid-Flood	Cloudy	Small wave	CS4	Surface	1	1	1	14:32	17.6	7.61	26.5	6.71	8.76	12.3
TMCLKL	HY/2012/08	2017-02-21	Mid-Flood	Cloudy		CS4	Surface	1	1	2	14:32	17.7		26.5	6.75	8.8	12.4
	HY/2012/08		Mid-Flood	Cloudy				8.9	2	1		17.7	7.52		6.76	8.51	12.1
TMCLKL	HY/2012/08	2017-02-21	Mid-Flood	Cloudy		CS4	-	8.9	2	2	14:32	17.8		26.7	6.79	8.55	12.5
TMCLKL	HY/2012/08	2017-02-21	Mid-Flood	Cloudy		CS4		16.8	3	1	14:32	17.9		26.7	6.8	8.6	12.5
TMCLKL	HY/2012/08	2017-02-21	Mid-Flood	Cloudy		CS4		16.8	3	2	14:32	17.9		26.8	6.77	8.64	12.8
TMCLKL	HY/2012/08	2017-02-21	Mid-Flood	Cloudy		CS6	Surface	10.0	1	1	-	17.6		26.5	6.67	8.5	12.4
TMCLKL	HY/2012/08	2017-02-21	Mid-Flood	Cloudy		CS6	Surface	1	1	2		17.6		26.6	6.63	8.54	12.4
TMCLKL	HY/2012/08	2017-02-21	Mid-Flood	Cloudy		CS6	-	6.9	2	1	-	17.5	-	26.6	6.79	8.68	12.8
TMCLKL	HY/2012/08	2017-02-21	Mid-Flood	Cloudy		CS6		6.9	2	2		17.6		26.7	6.83	8.71	12.8
TMCLKL	HY/2012/08	2017-02-21	Mid-Flood	Cloudy		CS6		12.8	2	1		17.6		26.8	6.67	9.21	13.1
TMCLKL	HY/2012/08	2017-02-21	Mid-Flood	Cloudy		CS6		12.8	3	2	12:17	17.7		26.8	6.7	9.27	13.3
TMCLKL	HY/2012/08	2017-02-21	Mid-Flood	Cloudy		IS12	Surface	12.0	J 1	2		17.6		26.6	6.82	8.68	11.7
TMCLKL	HY/2012/08	2017-02-21	Mid-Flood	Cloudy			Surface	1	1	2		17.6	-	26.7	6.88	8.64	11.4
TMCLKL	HY/2012/08	2017-02-21	Mid-Flood	Cloudy		IS12 IS12	-	6.2	2	2	-	17.0	-	26.7	6.72	8.7	11.4
TMCLKL	HY/2012/08	2017-02-21	Mid-Flood	Cloudy		IS12 IS12		6.2 6.2	2	2	13:57	17.7		26.8	6.76	8.74	11.7
	HY/2012/08	2017-02-21	Mid-Flood			IS12 IS12	-	0.2 11.4	2	2 1	13:57	17.8		26.7	6.59	8.97	12.3
				Cloudy		IS12 IS12			ა ა	2				26.7	6.63		12.3
	HY/2012/08	2017-02-21	Mid-Flood	Cloudy				11.4	3 1	4	13:57	17.8			6.74	8.99	
	HY/2012/08	2017-02-21	Mid-Flood	Cloudy		IS13	Surface	1	1	2	13:39	17.5		26.6		8.71	12.2
	HY/2012/08	2017-02-21	Mid-Flood	Cloudy		IS13	Surface	1	1	2	13:39	17.6		26.6	6.77	8.74	12.1
TMCLKL	HY/2012/08	2017-02-21	Mid-Flood	Cloudy		IS13		5.2	2	1	13:39	17.6	7.6	26.7	6.56	8.52	11.9
	HY/2012/08	2017-02-21	Mid-Flood	Cloudy		IS13	-	5.2	2	2	13:39	17.6	7.64	26.6	6.59	8.57	11.8
	HY/2012/08	2017-02-21	Mid-Flood	Cloudy		IS13		9.3	<u>ა</u>		13:39	17.8		26.7	6.8	8.61	11.6
	HY/2012/08	2017-02-21	Mid-Flood	Cloudy		IS13		9.3	<u>১</u>	2	13:39	17.8		26.8	6.85	8.67	11.8
	HY/2012/08	2017-02-21	Mid-Flood	Cloudy			Surface	1	1			17.6		26.5	6.83 6.97	8.61	10.9
	HY/2012/08	2017-02-21	Mid-Flood	Cloudy		IS14	Surface			2	14:13	17.7		26.6	6.87	8.64	10.6
	HY/2012/08	2017-02-21	Mid-Flood	Cloudy		IS14		5.8	2	1		17.8		26.7	6.62	8.4	10.1
	HY/2012/08	2017-02-21	Mid-Flood	Cloudy		IS14	-	5.8	2	2	14:13	17.9		26.6	6.67	8.45	10.4
	HY/2012/08	2017-02-21	Mid-Flood	Cloudy		IS14		10.5	3	1	14:13	17.9		26.7	6.64	8.79	11.3
TMCLKL	HY/2012/08	2017-02-21	Mid-Flood	Cloudy		IS14		10.5	3	2	14:13	17.8	7.7	26.7	6.67	8.81	10.9
	HY/2012/08		Mid-Flood	Cloudy			Surface	1	1	1		17.5		26.5	6.52	8.63	11.7
IMCLKL	HY/2012/08	2017-02-21	Mid-Flood	Cloudy	Small wave	IS15	Surface	1	1	2	13:23	17.6	7.84	26.6	6.55	8.67	11.6

TMCLKLHYTMCLKLHYTMCLKLHYTMCLKLHYTMCLKLHYTMCLKLHYTMCLKLHYTMCLKLHYTMCLKLHYTMCLKLHYTMCLKLHY	Y/2012/08 Y/2012/08 Y/2012/08 Y/2012/08 Y/2012/08 Y/2012/08 Y/2012/08 Y/2012/08	2017-02-21 2017-02-21 2017-02-21 2017-02-21 2017-02-21 2017-02-21 2017-02-21	Mid-Flood Mid-Flood Mid-Flood Mid-Flood	Cloudy Cloudy Cloudy	Small wave Small wave		Middle	4.0					_				
TMCLKLHYTMCLKLHYTMCLKLHYTMCLKLHYTMCLKLHYTMCLKLHYTMCLKLHYTMCLKLHYTMCLKLHYTMCLKLHY	Y/2012/08 Y/2012/08 Y/2012/08 Y/2012/08 Y/2012/08 Y/2012/08 Y/2012/08	2017-02-21 2017-02-21 2017-02-21 2017-02-21	Mid-Flood Mid-Flood		Small wave		Mildulo	4.8	2	1	13:23	17.6	7.68	26.7	6.83	8.54	11.4
TMCLKL HY TMCLKL HY TMCLKL HY TMCLKL HY TMCLKL HY TMCLKL HY TMCLKL HY TMCLKL HY	Y/2012/08 Y/2012/08 Y/2012/08 Y/2012/08 Y/2012/08 Y/2012/08	2017-02-21 2017-02-21 2017-02-21	Mid-Flood	Cloudy		IS15	Middle	4.8	2	2	13:23	17.7	7.62	26.8	6.87	8.57	11.4
TMCLKLHYTMCLKLHYTMCLKLHYTMCLKLHYTMCLKLHYTMCLKLHYTMCLKLHYTMCLKLHY	Y/2012/08 Y/2012/08 Y/2012/08 Y/2012/08 Y/2012/08	2017-02-21 2017-02-21			Small wave	IS15	Bottom	8.6	3	1	13:23	17.7	7.73	26.8	6.92	8.91	12.1
TMCLKL HY TMCLKL HY TMCLKL HY TMCLKL HY TMCLKL HY TMCLKL HY	Y/2012/08 Y/2012/08 Y/2012/08 Y/2012/08	2017-02-21	Mid Elaad	Cloudy	Small wave	IS15	Bottom	8.6	3	2	13:23	17.9	7.75	26.8	6.96	8.94	12.3
TMCLKL HY TMCLKL HY TMCLKL HY TMCLKL HY TMCLKL HY	Y/2012/08 Y/2012/08 Y/2012/08		Mid-Flood	Cloudy	Small wave	SR8	Surface	1	1	1	12:51	17.5	7.67	26.5	6.71	8.26	10.6
TMCLKL HY TMCLKL HY TMCLKL HY TMCLKL HY TMCLKL HY	Y/2012/08 Y/2012/08	2017-02-21	Mid-Flood	Cloudy	Small wave	SR8	Surface	1	1	2	12:51	17.5	7.64	26.6	6.77	8.3	11
TMCLKL HY TMCLKL HY TMCLKL HY TMCLKL HY	Y/2012/08		Mid-Flood	Cloudy	Small wave	SR8	Middle		2	1	12:51						
TMCLKL HY TMCLKL HY TMCLKL HY		2017-02-21	Mid-Flood	Cloudy	Small wave	SR8	Middle		2	2	12:51						
TMCLKL HY TMCLKL HY		2017-02-21	Mid-Flood	Cloudy	Small wave	SR8	Bottom	4.7	3	1	12:51	17.6	7.82	26.7	6.69	8.43	10.7
TMCLKL HY	Y/2012/08	2017-02-21	Mid-Flood	Cloudy	Small wave	SR8	Bottom	4.7	3	2	12:51	17.6	7.88	26.7	6.73	8.47	11.2
	Y/2012/08	2017-02-21	Mid-Flood	Cloudy	Small wave	SR9	Surface	1	1	1	13:07	17.5	7.78	26.6	6.63	8.54	10.9
	Y/2012/08	2017-02-21	Mid-Flood	Cloudy	Small wave	SR9	Surface	1	1	2	13:07	17.6	7.74	26.7	6.67	8.58	10.9
TMCLKL HY	Y/2012/08	2017-02-21	Mid-Flood	Cloudy	Small wave	SR9	Middle		2	1	13:07						
TMCLKL HY	Y/2012/08	2017-02-21	Mid-Flood	Cloudy	Small wave	SR9	Middle		2	2	13:07						
TMCLKL HY	Y/2012/08	2017-02-21	Mid-Flood	Cloudy	Small wave	SR9	Bottom	3.8	3	1	13:07	17.7	7.62	26.6	6.73	8.63	10.8
TMCLKL HY	Y/2012/08	2017-02-21	Mid-Flood	Cloudy	Small wave	SR9	Bottom	3.8	3	2	13:07	17.8	7.66	26.6	6.77	8.67	10.8
TMCLKL HY	Y/2012/08	2017-02-21	Mid-Flood	Cloudy	Small wave	SR10A	Surface	1	1	1	12:34	17.5	7.61	26.5	6.7	8.45	10.9
TMCLKL HY	Y/2012/08	2017-02-21	Mid-Flood	Cloudy	Small wave	SR10A	Surface	1	1	2	12:34	17.6	7.64	26.6	6.73	8.49	11.1
TMCLKL HY	Y/2012/08	2017-02-21	Mid-Flood	Cloudy	Small wave	SR10A	Middle	6.7	2	1	12:34	17.6	7.58	26.6	6.77	8.53	10.8
TMCLKL HY	Y/2012/08	2017-02-21	Mid-Flood	Cloudy	Small wave	SR10A	Middle	6.7	2	2	12:34	17.6	7.63	26.6	6.8	8.57	10.9
TMCLKL HY	Y/2012/08	2017-02-21	Mid-Flood	Cloudy	Small wave	SR10A	Bottom	12.4	3	1	12:34	17.7	7.89	26.7	6.54	8.82	11.2
TMCLKL HY	Y/2012/08	2017-02-21	Mid-Flood	Cloudy	Small wave		Bottom	12.4	3	2	12:34	17.8	7.87	26.8	6.58	8.86	11.6
TMCLKL HY	Y/2012/08	2017-02-21	Mid-Ebb	Cloudy	Small wave		Surface	1	1	1		17.2		26.8	7.02	8.95	13.1
TMCLKL HY	Y/2012/08	2017-02-21	Mid-Ebb	Cloudy	Small wave	CS4	Surface	1	1	2	08:50	17.3	7.84	26.8	7.07	8.88	12.8
TMCLKL HY	Y/2012/08	2017-02-21	Mid-Ebb	Cloudy	Small wave		Middle	8.7	2	1	08:50	17.3	7.88	26.9	7.14	8.76	12.4
TMCLKL HY	Y/2012/08	2017-02-21	Mid-Ebb	Cloudy	Small wave			8.7	2	2	08:50	17.3	7.9	26.8	7.1	8.71	12.7
			Mid-Ebb	Cloudy				16.4	3	1		17.5	7.94		7.3	9.04	13
		2017-02-21	Mid-Ebb	Cloudy				16.4	3	2		17.4		27	7.37	9.09	12.9
TMCLKL HY		2017-02-21	Mid-Ebb	Cloudy			Surface	1	1	1		17.3		26.7	7.08	8.79	12.8
TMCLKL HY	Y/2012/08	2017-02-21	Mid-Ebb	Cloudy		CS6	Surface	1	1	2		17.3		26.8	7.01	8.84	12.8
	Y/2012/08	2017-02-21	Mid-Ebb	Cloudy		CS6		6.8	2	1		17.4		26.9	7.26	8.64	12.6
		2017-02-21	Mid-Ebb	Cloudy				6.8	2	2		17.3		26.9	7.18	8.58	12.6
	Y/2012/08	2017-02-21	Mid-Ebb	Cloudy			Bottom	12.5	3	1		17.5		26.8	7.37	9.05	13.5
		2017-02-21	Mid-Ebb	Cloudy				12.5	3	2		17.5		26.9	7.43	9.11	13.2
		2017-02-21	Mid-Ebb	Cloudy			Surface	1	1	1		17.3		26.8	7.03	9.02	12
		2017-02-21	Mid-Ebb	Cloudy	Small wave		Surface	1	1	2		17.2		26.8	6.97	9.07	12.3
TMCLKL HY	Y/2012/08	2017-02-21	Mid-Ebb	Cloudy	Small wave	IS12	Middle	6	2	1		17.3		26.8	7.19	9.14	12.2
	Y/2012/08	2017-02-21	Mid-Ebb	Cloudy			Middle	6	2	2		17.3		26.9	7.25	9.08	12.5
TMCLKL HY	Y/2012/08	2017-02-21	Mid-Ebb	Cloudy		IS12	Bottom	11	3	1		17.3		27	7.39	9.27	12.6
		2017-02-21	Mid-Ebb	Cloudy			Bottom	11	3	2		17.4		26.9	7.44	9.21	12.2
		2017-02-21	Mid-Ebb	Cloudy		IS13	Surface	1	1	1		17.3		26.8	7.12	9.08	12.4
	Y/2012/08	2017-02-21	Mid-Ebb	Cloudy			Surface	1	1	2		17.3		26.7	7.19	9.13	12.3
	Y/2012/08	2017-02-21	Mid-Ebb	Cloudy	Small wave	IS13	Middle	5	2	1		17.3		26.8	7.26	8.9	12.3
		2017-02-21	Mid-Ebb	Cloudy			Middle	5	2	2		17.4	7.9	26.8	7.31	8.85	12.4
		2017-02-21	Mid-Ebb	Cloudy				9	3	1		17.4		26.9	7.37	9.24	12.6
		2017-02-21	Mid-Ebb	Cloudy				9	3	2		17.4		26.8	7.44	9.19	12.9
		2017-02-21	Mid-Ebb	Cloudy		IS14	Surface	1	1	1		17.2		26.8	7.11	8.9	11.4
	Y/2012/08	2017-02-21	Mid-Ebb	Cloudy	Small wave		Surface	1	1	2		17.2		26.7	7.08	8.96	11.1
	Y/2012/08	2017-02-21	Mid-Ebb	Cloudy				5.7	2	1		17.3		26.8	7.24	8.81	11.1
		2017-02-21	Mid-Ebb	Cloudy				5.7	2	2		17.2		26.8	7.29	8.74	10.8
		2017-02-21	Mid-Ebb	Cloudy				10.3	3	1		17.4		26.9	7.42	9.11	11.3
		2017-02-21	Mid-Ebb	Cloudy				10.3	3	2		17.4		26.9	7.36	9.16	11.7
	Y/2012/08	2017-02-21	Mid-Ebb	Cloudy	Small wave		Surface	1	1	<u>-</u> 1		17.4		26.7	7.04	9.02	12.4
		2017-02-21 2017-02-21	Mid-Ebb	Cloudy			Surface	1	1	2		17.3	7.8	26.8	7.0 <del>4</del> 7.1	9.02	12.4
		2017-02-21 2017-02-21	Mid-Ebb	Cloudy			Middle	4.6	2	<u>-</u> 1	09.20 09:28			26.8	7.17	9.07	12.1
TMCLKL HY		2017-02-21 2017-02-21			Small wave		Middle		<u>د</u> 2	2	09.28 09:28		7.94 7.96		7.17	9.15	12.1

Project	Works	Date	Tide	Weather	Sea Condition	Stat	Level	Water Depth	Lev_Cod	Replicate	Time	Temp(°C)	рН	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)
TMCLKL	HY/2012/08	2017-02-21	Mid-Ebb	Cloudy	Small wave	IS15	Bottom	8.1	3	1	09:28	17.4	7.82	26.9	7.32	9.21	12.3
TMCLKL	HY/2012/08	2017-02-21	Mid-Ebb	Cloudy	Small wave	IS15	Bottom	8.1	3	2	09:28	17.5	7.85	26.9	7.39	9.28	12.9
TMCLKL	HY/2012/08	2017-02-21	Mid-Ebb	Cloudy	Small wave	SR8	Surface	1	1	1	09:43	17.3	7.82	26.7	7.07	8.74	11.2
TMCLKL	HY/2012/08	2017-02-21	Mid-Ebb	Cloudy	Small wave	SR8	Surface	1	1	2	09:43	17.3	7.79	26.8	7.14	8.68	11
TMCLKL	HY/2012/08	2017-02-21	Mid-Ebb	Cloudy	Small wave	SR8	Middle		2	1	09:43						
TMCLKL	HY/2012/08	2017-02-21	Mid-Ebb	Cloudy	Small wave	SR8	Middle		2	2	09:43						
TMCLKL	HY/2012/08	2017-02-21	Mid-Ebb	Cloudy	Small wave	SR8		4.3	3	1	09:43	17.3	7.87	26.9	7.27	8.86	11.2
TMCLKL	HY/2012/08	2017-02-21	Mid-Ebb	Cloudy	Small wave	SR8		4.3	3	2	09:43	17.4	7.9	26.8	7.2	8.9	11.5
TMCLKL	HY/2012/08	2017-02-21	Mid-Ebb	Cloudy	Small wave	SR9	Surface	1	1	1	09:37	17.3	7.87	26.8	7.16	8.94	11.4
TMCLKL	HY/2012/08	2017-02-21	Mid-Ebb	Cloudy	Small wave	SR9	Surface	1	1	2	09:37	17.3	7.85	26.7	7.1	8.87	11
TMCLKL	HY/2012/08	2017-02-21	Mid-Ebb	Cloudy	Small wave	SR9	Middle		2	1	09:37				<b></b>		_ <b></b> /
TMCLKL	HY/2012/08	2017-02-21	Mid-Ebb	Cloudy	Small wave	SR9	Middle	0.0	2	2	09:37	47.0		00.0	7.04	0.00	
TMCLKL	HY/2012/08	2017-02-21	Mid-Ebb	Cloudy	Small wave	SR9		3.6	3	1	09:37	17.3	7.77	26.8	7.31	9.06	11.4
	HY/2012/08	2017-02-21	Mid-Ebb	Cloudy	Small wave	SR9	Bottom	3.6	3	2	09:37	17.2		26.8 26.7	7.24 7.11	9.11	11.9
TMCLKL TMCLKL	HY/2012/08 HY/2012/08	2017-02-21 2017-02-21	Mid-Ebb Mid-Ebb	Cloudy Cloudy	Small wave Small wave	SR10A SR10A	Surface Surface	1	1	1	10:10 10:10	17.3 17.3	7.84 7.81	26.7	7.11	8.9 8.97	11.5 11.7
TMCLKL	HY/2012/08	2017-02-21	Mid-Ebb	Cloudy	Small wave	SR10A		6.4	2	2 1	10:10	17.3	7.91	26.8	7.17	8.68	11.7
TMCLKL	HY/2012/08	2017-02-21	Mid-Ebb	Cloudy	Small wave	SR10A		6.4 6.4	2	2	10:10	17.4	7.89	26.8	7.18	8.73	11.3
TMCLKL	HY/2012/08	2017-02-21	Mid-Ebb	Cloudy	Small wave	SR10A	Bottom	0. <del>4</del> 11.8	2	1	10:10	17.4		26.8	7.10	9.03	11.8
TMCLKL	HY/2012/08	2017-02-21	Mid-Ebb	Cloudy	Small wave	SR10A	Bottom	11.8	3	2	10:10	17.5		26.9	7.31	9.12	11.5
TMCLKL	HY/2012/08	2017-02-21	Mid-Ebb Mid-Flood	Cloudy	Small wave	CS4	Surface	1	1	1	16:36	17.3	7.71	26.2	6.71	8.65	12.2
TMCLKL	HY/2012/08	2017-02-23	Mid-Flood	Cloudy	Small wave	CS4	Surface	1	1	2	16:36	17.3		26.2	6.74	8.76	12.6
TMCLKL	HY/2012/08	2017-02-23	Mid-Flood	Cloudy	Small wave	CS4		9	2	1	16:36	17.2		26.2	6.72	8.74	12.6
TMCLKL	HY/2012/08	2017-02-23	Mid-Flood	Cloudy	Small wave	CS4	Middle	9	2	2	16:36	17.2	7.73	26.2	6.75	8.84	12.5
TMCLKL	HY/2012/08	2017-02-23	Mid-Flood	Cloudy	Small wave	CS4	Bottom	17	3	1	16:36	17.2	7.72	26.2	6.76	8.77	12.7
TMCLKL	HY/2012/08	2017-02-23	Mid-Flood	Cloudy	Small wave	CS4	Bottom	17	3	2	16:36	17.2		26.2	6.8	8.84	12.5
TMCLKL	HY/2012/08	2017-02-23	Mid-Flood	Cloudy		CS6	Surface	1	1	1		17.2			6.6	8.53	12.5
TMCLKL	HY/2012/08	2017-02-23	Mid-Flood	Cloudy		CS6	Surface	1	1	2	14:38	17.3		26.3	6.66	8.44	12.4
TMCLKL	HY/2012/08	2017-02-23	Mid-Flood	Cloudy		CS6		6.8	2	1	14:38	17.3		26.3	6.68	8.62	12.5
TMCLKL	HY/2012/08	2017-02-23	Mid-Flood	Cloudy	Small wave	CS6		6.8	2	2	14:38	17.3		26.3	6.7	8.51	12.8
TMCLKL	HY/2012/08	2017-02-23	Mid-Flood	Cloudy	Small wave	CS6	Bottom	12.6	3	1	14:38	17.3		26.3	6.71	8.77	12.9
TMCLKL	HY/2012/08	2017-02-23	Mid-Flood	Cloudy	Small wave	CS6	Bottom	12.6	3	2	14:38	17.2		26.3	6.72	8.82	12.9
TMCLKL	HY/2012/08	2017-02-23	Mid-Flood	Cloudy	Small wave	IS12	Surface	1	1	1	16:05	17.3	7.57	26.2	6.77	8.64	11.8
TMCLKL	HY/2012/08	2017-02-23	Mid-Flood	Cloudy	Small wave	IS12	Surface	1	1	2	16:05	17.4	7.52	26.2	6.81	8.72	11.8
TMCLKL	HY/2012/08	2017-02-23	Mid-Flood	Cloudy	Small wave	IS12	Middle	6.2	2	1	16:05	17.3	7.61	26.2	6.82	8.73	11.7
TMCLKL	HY/2012/08	2017-02-23	Mid-Flood	Cloudy	Small wave	IS12	Middle	6.2	2	2	16:05	17.3	7.57	26.2	6.85	8.82	12.1
TMCLKL	HY/2012/08	2017-02-23	Mid-Flood	Cloudy	Small wave	IS12	Bottom	11.4	3	1	16:05	17.2	7.61	26.2	6.86	8.72	11.7
TMCLKL	HY/2012/08	2017-02-23	Mid-Flood	Cloudy	Small wave	IS12	Bottom	11.4	3	2	16:05	17.2	7.59	26.2	6.85	8.8	12.1
TMCLKL	HY/2012/08	2017-02-23	Mid-Flood	Cloudy	Small wave	IS13	Surface	1	1	1	15:49	17.1	7.6	26.3	6.57	8.65	11.8
TMCLKL	HY/2012/08	2017-02-23	Mid-Flood	Cloudy	Small wave	IS13	Surface	1	1	2	15:49	17.1	7.62	26.3	6.62	8.69	11.8
TMCLKL	HY/2012/08	2017-02-23	Mid-Flood	Cloudy	Small wave	IS13		5.2	2	1	15:49	17.1		26.3	6.63	8.72	12
TMCLKL	HY/2012/08	2017-02-23	Mid-Flood	Cloudy	Small wave	IS13		5.2	2	2	15:49	17.1		26.3	6.67	8.78	12.4
TMCLKL	HY/2012/08	2017-02-23	Mid-Flood	Cloudy	Small wave	IS13		9.4	3	1	15:49	17.1		26.2	6.64	8.83	12
TMCLKL	HY/2012/08	2017-02-23	Mid-Flood	Cloudy	Small wave	IS13		9.4	3	2	15:49	17.1		26.2	6.7	8.87	12
TMCLKL	HY/2012/08	2017-02-23	Mid-Flood	Cloudy		IS14	Surface	1	1	1		17.2		26.2	6.65	8.65	10.5
TMCLKL	HY/2012/08	2017-02-23	Mid-Flood	Cloudy	Small wave	IS14	Surface	1	1	2		17.2		26.2	6.68	8.75	10.6
TMCLKL	HY/2012/08	2017-02-23	Mid-Flood	Cloudy	Small wave	IS14		6.8	2	1	16:21	17.2		26.2	6.69	8.74	10.9
TMCLKL	HY/2012/08	2017-02-23	Mid-Flood	Cloudy	Small wave	IS14		6.8	2	2	16:21	17.2		26.2	6.71	8.79	11.1
TMCLKL	HY/2012/08	2017-02-23	Mid-Flood	Cloudy	Small wave	IS14	Bottom	10.6	3	1		17.2		26.2	6.72	8.78	11.2
TMCLKL	HY/2012/08	2017-02-23	Mid-Flood	Cloudy	Small wave	IS14		10.6	3	2		17.2		26.2	6.75	8.83	10.9
TMCLKL	HY/2012/08	2017-02-23	Mid-Flood	Cloudy	Small wave	IS15	Surface	1	1	1	-	17.2		26.2	6.37	8.68	12
TMCLKL	HY/2012/08	2017-02-23	Mid-Flood	Cloudy	Small wave	IS15	Surface	1	1	2	15:34	17.1		26.2	6.4	8.73	12
TMCLKL	HY/2012/08	2017-02-23	Mid-Flood	Cloudy	Small wave	IS15		4.8	2		15:34	17.1		26.2	6.42	8.76	11.6
	HY/2012/08	2017-02-23	Mid-Flood	Cloudy	Small wave	IS15		4.8	2	2	15:34	17.1		26.2	6.46 6.61	8.7	11.8
	HY/2012/08	2017-02-23	Mid-Flood	Cloudy				8.6 8.6	ა ი	1	15:34		7.61		6.61 6.57	8.64	11.5
	HY/2012/08	2017-02-23	IVIIU-F1000	Cloudy	Small wave	1919	Bottom	0.0	ა	2	15:34	17.1	7.62	20.2	6.57	8.68	11.9

Project	Works	Date	Tide	Weather	Sea Condition	Stat	Level	Water Depth	Lev_Cod	Replicate	Time	Temp(°C)	рН	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)
TMCLKL	HY/2012/08	2017-02-23	Mid-Flood	Cloudy	Small wave	SR8	Surface	1	1	1	15:08	17.2	7.65	26.2	6.65	8.34	10.5
TMCLKL	HY/2012/08	2017-02-23	Mid-Flood	Cloudy	Small wave	SR8	Surface	1	1	2	15:08	17.2	7.67	26.2	6.67	8.42	11.2
TMCLKL	HY/2012/08	2017-02-23	Mid-Flood	Cloudy	Small wave	SR8	Middle		2	1	15:08						
TMCLKL	HY/2012/08	2017-02-23	Mid-Flood	Cloudy	Small wave	SR8	Middle		2	2	15:08						'
TMCLKL	HY/2012/08	2017-02-23	Mid-Flood	Cloudy	Small wave	SR8	Bottom	4.6	3	1	15:08	17.2	7.67	26.2	6.69	8.53	11
TMCLKL	HY/2012/08	2017-02-23	Mid-Flood	Cloudy	Small wave	SR8	Bottom	4.6	3	2	15:08	17.2	7.66	26.2	6.71	8.44	10.7
TMCLKL	HY/2012/08	2017-02-23	Mid-Flood	Cloudy	Small wave	SR9	Surface	1	1	1	15:21	17.2	7.61	26.3	6.51	8.62	11.2
TMCLKL	HY/2012/08	2017-02-23	Mid-Flood	Cloudy	Small wave	SR9	Surface	1	1	2	15:21	17.3	7.62	26.2	6.54	8.71	11.1
TMCLKL	HY/2012/08	2017-02-23	Mid-Flood	Cloudy	Small wave	SR9	Middle		2	1	15:21						_ <b>_</b> '
TMCLKL	HY/2012/08	2017-02-23	Mid-Flood	Cloudy	Small wave	SR9	Middle		2	2	15:21						'
TMCLKL	HY/2012/08	2017-02-23	Mid-Flood	Cloudy	Small wave	SR9		3.4	3	1	15:21	17.1	7.63	26.3	6.6	8.74	11.5
TMCLKL	HY/2012/08	2017-02-23	Mid-Flood	Cloudy	Small wave	SR9	Bottom	3.4	3	2	15:21	17.1	7.62	26.3	6.62	8.79	11.4
TMCLKL	HY/2012/08	2017-02-23	Mid-Flood	Cloudy	Small wave	SR10A	Surface	1	1	1	14:54	17.2	7.62	26.2	6.56	8.37	10.9
TMCLKL	HY/2012/08	2017-02-23	Mid-Flood	Cloudy	Small wave		Surface	1	1	2	14:54	17.2	7.64	26.3	6.59	8.46	11.3
TMCLKL	HY/2012/08	2017-02-23	Mid-Flood	Cloudy	Small wave	SR10A		6.6	2	1	14:54	17.2	7.62	26.3	6.62	8.53	11.1
TMCLKL	HY/2012/08	2017-02-23	Mid-Flood	Cloudy	Small wave	SR10A	Middle	6.6	2	2	14:54	17.2	7.63	26.3	6.6	8.66	10.9
TMCLKL	HY/2012/08	2017-02-23	Mid-Flood	Cloudy	Small wave	SR10A	Bottom	12.2	3	1	14:54	17.2	7.62	26.3	6.66	8.56	10.7
TMCLKL	HY/2012/08	2017-02-23	Mid-Flood	Cloudy	Small wave	SR10A	Bottom	12.2	3	2	14:54	17.2	7.63	26.3	6.65	8.64	10.9
TMCLKL	HY/2012/08	2017-02-23	Mid-Ebb	Cloudy	Small wave	CS4	Surface	1	1	1	12:52	17.6	7.76	26.4	6.66	8.81	12.4
TMCLKL	HY/2012/08	2017-02-23	Mid-Ebb	Cloudy	Small wave	CS4	Surface	1	1	2	12:52	17.5	7.74	26.4	6.69	8.85	12.7
TMCLKL	HY/2012/08	2017-02-23	Mid-Ebb	Cloudy	Small wave	CS4		8.7	2	1	12:52	17.6	7.82	26.4	6.67	8.57	12.2
	HY/2012/08	2017-02-23	Mid-Ebb	Cloudy	Small wave	CS4	Middle	8.7	2	2	12:52	17.6	7.88	26.5	6.7	8.6	12.4
	HY/2012/08	2017-02-23	Mid-Ebb	Cloudy	Small wave	CS4	Bottom	16.4	3		12:52	17.7	7.59	26.6	6.74	8.62	12.4
TMCLKL	HY/2012/08	2017-02-23	Mid-Ebb	Cloudy	Small wave	CS4	Bottom	16.4	3	2	12:52	17.6	7.63	26.8	6.77	8.66	12.3
	HY/2012/08	2017-02-23	Mid-Ebb	Cloudy	Small wave	CS6	Surface	1	1		10:34	17.4	7.62	26.5	6.53 6.56	8.47	12.3
	HY/2012/08	2017-02-23	Mid-Ebb	Cloudy	Small wave	CS6	Surface	1	1	2	10:34	17.3	7.66	26.6	6.56 6.64	8.49	12.4
	HY/2012/08 HY/2012/08		Mid-Ebb	Cloudy		CS6 CS6		6.6 6.6	2	2	10:34		7.73		6.64 6.67	8.53	12.3
	HY/2012/08	2017-02-23 2017-02-23	Mid-Ebb	Cloudy Cloudy	Small wave	CS6		6.6 12.2	2	2		17.5		26.6 26.7	6.67 6.58	8.57 9.24	12.8 13.5
TMCLKL TMCLKL	HY/2012/08	2017-02-23	Mid-Ebb Mid-Ebb	Cloudy	Small wave Small wave	CS6	Bottom Bottom	12.2	ა ვ	2		17.5 17.5		26.8	6.54	9.24	13.6
TMCLKL	HY/2012/08	2017-02-23	Mid-Ebb	Cloudy	Small wave	IS12	Surface	12.2	1	2		17.6	7.5	26.6	6.74	8.7	11.5
TMCLKL	HY/2012/08	2017-02-23	Mid-Ebb	Cloudy	Small wave	IS12 IS12	Surface	1	1	2		17.5		26.7	6.77 6.77	8.73	12
TMCLKL	HY/2012/08	2017-02-23	Mid-Ebb	Cloudy	Small wave	IS12	Middle	6	2	2		17.6		26.8	6.51	8.76	12
TMCLKL	HY/2012/08	2017-02-23	Mid-Ebb	Cloudy		IS12 IS12	Middle	6 6	2	2		17.7		26.8	6.55	8.8	11.5
TMCLKL	HY/2012/08	2017-02-23	Mid-Ebb	Cloudy		IS12	Bottom	0 11	3	1		17.8		26.7	6.43	8.92	12
TMCLKL	HY/2012/08	2017-02-23	Mid-Ebb	Cloudy	Small wave	IS12	Bottom	11	3	2		17.8		26.9	6.47	8.97	12.2
TMCLKL	HY/2012/08	2017-02-23	Mid-Ebb	Cloudy	Small wave	IS13	Surface	1	1	1		17.5	7.59	26.5	6.68	8.73	12.1
TMCLKL	HY/2012/08	2017-02-23	Mid-Ebb	Cloudy	Small wave	IS13	Surface	1	1	2	11:58	17.6		26.5	6.65	8.77	12.1
TMCLKL	HY/2012/08	2017-02-23	Mid-Ebb	Cloudy	Small wave	IS13	Middle	5	2	1		17.6		26.6	6.43	8.62	11.6
TMCLKL	HY/2012/08	2017-02-23	Mid-Ebb	Cloudy	Small wave	IS13	Middle	5	2	2	11:58	17.7		26.7	6.45	8.64	12.3
TMCLKL	HY/2012/08	2017-02-23	Mid-Ebb	Cloudy		IS13		9	3	<b>1</b> 1		17.7		26.8	6.7	8.67	12.0
TMCLKL	HY/2012/08	2017-02-23	Mid-Ebb	Cloudy	Small wave	IS13		9	3	2	11:58	17.6		26.7	6.77	8.7	12.3
TMCLKL	HY/2012/08	2017-02-23	Mid-Ebb	Cloudy	Small wave	IS14	Surface	1	1	1	12:34	17.6		26.5	6.63	8.72	10.9
TMCLKL	HY/2012/08	2017-02-23	Mid-Ebb	Cloudy	Small wave	IS14	Surface	1	1	2	12:34	17.6		26.6	6.67	8.75	11
TMCLKL	HY/2012/08	2017-02-23	Mid-Ebb	Cloudy		IS14		5.6	2	1	12:34	17.7		26.7	6.52	8.53	10.4
TMCLKL	HY/2012/08	2017-02-23	Mid-Ebb	Cloudy		IS14		5.6	2	2		17.8		26.7	6.57	8.57	10.7
TMCLKL	HY/2012/08	2017-02-23	Mid-Ebb	Cloudy	Small wave	IS14		10.2	3	1	12:34	17.7		26.7	6.6	8.62	10.7
TMCLKL	HY/2012/08	2017-02-23	Mid-Ebb	Cloudy	Small wave	IS14		10.2	3	2	12:34	17.7		26.8	6.63	8.64	10.6
TMCLKL	HY/2012/08	2017-02-23	Mid-Ebb	Cloudy	Small wave	IS15	Surface	1	1	1		17.5		26.5	6.43	8.73	11.5
TMCLKL	HY/2012/08	2017-02-23	Mid-Ebb	Cloudy	Small wave	IS15	Surface	1	1	2		17.4	8	26.4	6.47	8.77	12
TMCLKL	HY/2012/08	2017-02-23	Mid-Ebb	Cloudy	Small wave	IS15		4.6	2	1		17.5		26.5	6.72	8.62	11.3
TMCLKL	HY/2012/08	2017-02-23	Mid-Ebb	Cloudy	Small wave	IS15		4.6	2	2		17.6		26.5	6.78	8.64	11.8
TMCLKL	HY/2012/08	2017-02-23	Mid-Ebb	Cloudy	Small wave	IS15		8.2	3	1		17.7		26.6	6.82	8.9	11.9
TMCLKL	HY/2012/08	2017-02-23	Mid-Ebb	Cloudy	Small wave	IS15		8.2	3	2		17.7		26.7	6.84	8.95	12
TMCLKL	HY/2012/08	2017-02-23	Mid-Ebb	Cloudy		SR8	Surface	1	1	1		17.5	8	26.5	6.53	8.37	10.8
TMCLKL	HY/2012/08	2017-02-23	Mid-Ebb	Cloudy	Small wave		Surface	1	1	2	11:08	17.5			6.57	8.4	10.8

Project	Works	Date	Tide	Weather	Sea Condition	Stat	Level	Water Depth	Lev_Cod	Replicate	Time	Temp(°C)	рН	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)
TMCLKL	HY/2012/08	2017-02-23	Mid-Ebb	Cloudy	Small wave	SR8	Middle		2	1	11:08						
TMCLKL	HY/2012/08	2017-02-23	Mid-Ebb	Cloudy	Small wave	SR8	Middle		2	2	11:08						
TMCLKL	HY/2012/08	2017-02-23	Mid-Ebb	Cloudy	Small wave	SR8	Bottom	4.4	3	1	11:08	17.6	7.78	26.6	6.6	8.56	10.8
TMCLKL	HY/2012/08	2017-02-23	Mid-Ebb	Cloudy	Small wave	SR8	Bottom	4.4	3	2	11:08	17.7	7.74	26.6	6.64	8.58	11
TMCLKL	HY/2012/08	2017-02-23	Mid-Ebb	Cloudy	Small wave	SR9	Surface	1	1	1	11:24	17.4	7.57	26.5	6.4	8.63	11
TMCLKL	HY/2012/08	2017-02-23	Mid-Ebb	Cloudy	Small wave	SR9	Surface	1	1	2	11:24	17.4	7.53	26.6	6.44	8.67	11.1
TMCLKL	HY/2012/08	2017-02-23	Mid-Ebb	Cloudy	Small wave	SR9	Middle		2	1	11:24						
TMCLKL	HY/2012/08	2017-02-23	Mid-Ebb	Cloudy	Small wave	SR9	Middle		2	2	11:24						
	HY/2012/08	2017-02-23	Mid-Ebb	Cloudy	Small wave	SR9		3.3	3	1	11:24	17.4	7.61	26.7	6.53	8.7	11.4
	HY/2012/08	2017-02-23	Mid-Ebb	Cloudy	Small wave	SR9	Bottom	3.3	3	2	11:24	17.5	7.67	26.8	6.57	8.78	11.5
	HY/2012/08	2017-02-23	Mid-Ebb	Cloudy	Small wave		Surface	1	1	1	10:51	17.4	7.57	26.5	6.6	8.59	11
TMCLKL TMCLKL	HY/2012/08 HY/2012/08	2017-02-23 2017-02-23	Mid-Ebb Mid Ebb	Cloudy	Small wave	SR10A SR10A	Surface Middle	6.4	2	2	10:51 10:51	17.4 17.3	7.6 7.86	26.5 26.5	6.64 6.67	8.54	10.8 10.7
	HY/2012/08	2017-02-23	Mid-Ebb Mid-Ebb	Cloudy Cloudy	Small wave Small wave	SR10A	Middle	6.4 6.4	2	2	10:51	17.3	7.88	26.6	6.71	8.41 8.44	10.7
	HY/2012/08	2017-02-23	Mid-Ebb	Cloudy	Small wave	SR10A	Bottom	0.4 11.8	2	2	10:51	17.4	7.61	26.7	6.43	8.76	11.2
TMCLKL	HY/2012/08	2017-02-23	Mid-Ebb	Cloudy	Small wave	SR10A	Bottom	11.8	3	2	10:51	17.6	7.64	26.6	6.47	8.78	11.5
	HY/2012/08	2017-02-23	Mid-Flood	Cloudy	Small wave	CS4	Surface	1	1	1	18:29	17.1	7.58	26.4	6.57	8.58	12.2
TMCLKL	HY/2012/08	2017-02-25	Mid-Flood	Cloudy	Small wave	CS4	Surface	1	1	2	18:29	17.1	7.57	26.5	6.54	8.5	12.6
TMCLKL	HY/2012/08	2017-02-25	Mid-Flood	Cloudy	Small wave	CS4 CS4		8.8	2	<u>-</u> 1	18:29	17.2	7.63	26.6	6.67	8.61	12.5
TMCLKL	HY/2012/08	2017-02-25	Mid-Flood	Cloudy	Small wave	CS4	Middle	8.8	2	2	18:29	17.1	7.64	26.5	6.66	8.65	12.5
TMCLKL	HY/2012/08	2017-02-25	Mid-Flood	Cloudy	Small wave	CS4	Bottom	16.6	3	1	18:29	17.3	7.68	26.7	6.78	8.43	11.9
TMCLKL	HY/2012/08	2017-02-25	Mid-Flood	Cloudy	Small wave	CS4	Bottom	16.6	3	2	18:29	17.2	7.69	26.6	6.74	8.36	12.4
TMCLKL	HY/2012/08	2017-02-25	Mid-Flood	Cloudy	Small wave		Surface	1	1	1	16:12	17.2	7.63	26.6	6.69	8.21	12.1
TMCLKL	HY/2012/08	2017-02-25	Mid-Flood	Cloudy	Small wave	CS6	Surface	1	1	2	16:12	17.1	7.65	26.5	6.68	8.29	12.3
TMCLKL	HY/2012/08	2017-02-25	Mid-Flood	Cloudy	Small wave	CS6		6.9	2	1	16:12	17.3	7.75	26.7	6.73	8.52	12.3
TMCLKL	HY/2012/08	2017-02-25	Mid-Flood	Cloudy	Small wave	CS6	Middle	6.9	2	2	16:12	17.2		26.6	6.74	8.57	12.7
			Mid-Flood	Cloudy				12.7	3	1	16:12			26.8	6.81	8.68	12.9
TMCLKL	HY/2012/08		Mid-Flood	Cloudy		CS6		12.7	3	2	16:12		7.6	26.8	6.8	8.73	12.7
TMCLKL	HY/2012/08		Mid-Flood	Cloudy			Surface	1	1	1		17.2		26.4	6.62	8.31	11
TMCLKL	HY/2012/08	2017-02-25	Mid-Flood	Cloudy	Small wave	IS12	Surface	1	1	2		17.1		26.5	6.64	8.38	11.5
TMCLKL	HY/2012/08	2017-02-25	Mid-Flood	Cloudy	Small wave	IS12	Middle	6.4	2	1	17:56	17.2		26.6	6.57	8.46	11.7
TMCLKL	HY/2012/08	2017-02-25	Mid-Flood	Cloudy	Small wave	IS12	Middle	6.4	2	2	17:56	17.3	7.69	26.6	6.59	8.51	11.4
TMCLKL	HY/2012/08	2017-02-25	Mid-Flood	Cloudy	Small wave	IS12	Bottom	11.7	3	1	17:56	17.4	7.56	26.7	6.44	8.47	11.7
TMCLKL	HY/2012/08	2017-02-25	Mid-Flood	Cloudy	Small wave	IS12	Bottom	11.7	3	2	17:56	17.3	7.54	26.6	6.46	8.42	11.2
TMCLKL	HY/2012/08	2017-02-25	Mid-Flood	Cloudy	Small wave	IS13	Surface	1	1	1	17:38	17.1	7.67	26.5	6.57	8.57	11.5
TMCLKL	HY/2012/08	2017-02-25	Mid-Flood	Cloudy	Small wave	IS13	Surface	1	1	2	17:38	17.2	7.64	26.6	6.55	8.62	12.1
TMCLKL	HY/2012/08	2017-02-25	Mid-Flood	Cloudy	Small wave	IS13	Middle	5.3	2	1	17:38	17.2	7.61	26.7	6.62	8.43	11.9
TMCLKL	HY/2012/08	2017-02-25	Mid-Flood	Cloudy	Small wave	IS13		5.3	2	2	17:38	17.2	7.59	26.6	6.63	8.49	12
TMCLKL	HY/2012/08	2017-02-25	Mid-Flood	Cloudy	Small wave	IS13		9.6	3	1	17:38	17.2		26.8	6.72	8.36	11.7
TMCLKL	HY/2012/08	2017-02-25	Mid-Flood	Cloudy		IS13		9.6	3	2		17.3		26.7	6.75	8.31	11.3
TMCLKL	HY/2012/08	2017-02-25	Mid-Flood	Cloudy		IS14	Surface	1	1	1		17.1		26.5	6.68	8.47	10.7
TMCLKL	HY/2012/08	2017-02-25	Mid-Flood	Cloudy		-	Surface	1	1	2		17.1		26.6	6.63	8.53	10.5
TMCLKL	HY/2012/08	2017-02-25	Mid-Flood	Cloudy	Small wave	IS14		5.8	2	1		17.2		26.7	6.57	8.39	10.6
TMCLKL	HY/2012/08	2017-02-25	Mid-Flood	Cloudy		IS14		5.8	2	2		17.1		26.6	6.56	8.33	10.7
TMCLKL	HY/2012/08	2017-02-25	Mid-Flood	Cloudy		IS14		10.5	3	1		17.3		26.8	6.43	8.27	10.4
	HY/2012/08		Mid-Flood	Cloudy		IS14		10.5	3	2		17.2		26.7	6.42	8.35	10.2
TMCLKL	HY/2012/08	2017-02-25	Mid-Flood	Cloudy	Small wave	IS15	Surface	1	1	1		17.1		26.4	6.42	8.43	11.5
	HY/2012/08	2017-02-25	Mid-Flood	Cloudy	Small wave	IS15	Surface	1	1	2	17:19	17.1		26.4	6.44	8.37	11.5
	HY/2012/08	2017-02-25	Mid-Flood	Cloudy	Small wave	IS15		4.7	2	1	17:19	17.1		26.5	6.51	8.49	11.3
	HY/2012/08	2017-02-25	Mid-Flood	Cloudy	Small wave	IS15		4.7	2	2		17.2		26.4	6.5 6.69	8.4	11.5
	HY/2012/08	2017-02-25	Mid-Flood	Cloudy		IS15		8.4	ა ი			17.3		26.7	6.68	8.61	11.6
	HY/2012/08	2017-02-25	Mid-Flood	Cloudy	Small wave	IS15		8.4	ა 1	4		17.2		26.6	6.69 6.59	8.54	11.3
	HY/2012/08	2017-02-25	Mid-Flood	Cloudy	Small wave	SR8	Surface	1	1		16:49	17.1		26.6	6.58 6.57	8.19	10.4
	HY/2012/08	2017-02-25	Mid-Flood	Cloudy	Small wave	SR8	Surface Middlo	1	1 2	4	16:49	17	6.67	26.7	6.57	8.24	10.6
	HY/2012/08 HY/2012/08	2017-02-25 2017-02-25	Mid-Flood	Cloudy Cloudy	Small wave Small wave	SR8	Middle Middle		2	2	16:49 16:49	1		<u> </u>	<u> </u>		- <b>/</b>
	ΙΤΤ/ΖυΤΖ/UŎ	2017-02-23	1000	Ciouuy	Small wave	310	Middle		2	2	10.49		1				_ <b>_</b>

Project	Works	Date	Tide	Weather	Sea Condition	Stat	Level	Water Depth	Lev_Cod	Replicate	Time	Temp(°C)	рН	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)
TMCLKL	HY/2012/08	2017-02-25	Mid-Flood	Cloudy	Small wave	SR8	Bottom	4.4	3	1	16:49	17.2	6.72	26.7	6.64	8.37	10.9
TMCLKL	HY/2012/08	2017-02-25	Mid-Flood	Cloudy	Small wave	SR8	Bottom	4.4	3	2	16:49	17.1	6.75	26.7	6.66	8.44	10.6
TMCLKL	HY/2012/08	2017-02-25	Mid-Flood	Cloudy	Small wave	SR9	Surface	1	1	1	17:04	17.1	7.65	26.6	6.52	8.32	10.6
TMCLKL	HY/2012/08	2017-02-25	Mid-Flood	Cloudy	Small wave	SR9	Surface	1	1	2	17:04	17	7.67	26.5	6.55	8.38	1.8
TMCLKL	HY/2012/08	2017-02-25	Mid-Flood	Cloudy	Small wave	SR9	Middle		2	1	17:04						
TMCLKL	HY/2012/08	2017-02-25	Mid-Flood	Cloudy	Small wave	SR9	Middle		2	2	17:04						
TMCLKL	HY/2012/08	2017-02-25	Mid-Flood	Cloudy	Small wave	SR9	Bottom	3.9	3	1	17:04	17.1	7.72	26.6	6.68	8.41	10.9
TMCLKL	HY/2012/08	2017-02-25	Mid-Flood	Cloudy	Small wave	SR9	Bottom	3.9	3	2	17:04	17	7.76	26.6	6.65	8.49	10.9
TMCLKL	HY/2012/08	2017-02-25	Mid-Flood	Cloudy	Small wave	SR10A	Surface	1	1	1	16:31	17.2	7.71	26.5	6.75	8.33	10.7
TMCLKL	HY/2012/08	2017-02-25	Mid-Flood	Cloudy	Small wave	SR10A	Surface	1	1	2	16:31	17.2	7.74	26.6	6.78	8.36	10.6
TMCLKL	HY/2012/08	2017-02-25	Mid-Flood	Cloudy	Small wave	SR10A	Middle	6.5	2	1	16:31	17.3	7.74	26.7	6.68	8.47	11.3
TMCLKL	HY/2012/08	2017-02-25	Mid-Flood	Cloudy	Small wave	SR10A	Middle	6.5	2	2	16:31	17.2	7.68	26.6	6.65	8.41	11
TMCLKL	HY/2012/08	2017-02-25	Mid-Flood	Cloudy	Small wave	SR10A	Bottom	11.9	3	1	16:31	17.4	7.63	26.7	6.54	8.54	10.9
TMCLKL	HY/2012/08	2017-02-25	Mid-Flood	Cloudy	Small wave	SR10A	Bottom	11.9	3	2	16:31	17.3	7.62	26.8	6.52	8.62	11.3
TMCLKL	HY/2012/08	2017-02-25	Mid-Ebb	Cloudy	Small wave	CS4	Surface	1	1	1	11:49	17	7.77	26.5	6.56	8.75	12.6
TMCLKL	HY/2012/08	2017-02-25	Mid-Ebb	Cloudy	Small wave	CS4	Surface	1	1	2	11:49	17	7.73	26.4	6.58	8.71	12.4
TMCLKL	HY/2012/08	2017-02-25	Mid-Ebb	Cloudy	Small wave	CS4	Middle	8.6	2	1	11:49	17.1	7.62	26.5	6.72	8.41	12.1
TMCLKL	HY/2012/08	2017-02-25	Mid-Ebb	Cloudy	Small wave	CS4	Middle	8.6	2	2	11:49	17	7.66	26.6	6.76	8.47	11.9
TMCLKL	HY/2012/08	2017-02-25	Mid-Ebb	Cloudy	Small wave	CS4	Bottom	16.2	3	1	11:49	17.1	7.78	26.7	6.7	8.57	12.1
TMCLKL	HY/2012/08	2017-02-25	Mid-Ebb	Cloudy	Small wave	CS4	Bottom	16.2	3	2	11:49	17.2	7.8	26.6	6.66	8.61	12.5
TMCLKL	HY/2012/08	2017-02-25	Mid-Ebb	Cloudy	Small wave	CS6	Surface	1	1	1	14:02	17.1	7.57	26.4	6.54	8.34	12.4
TMCLKL	HY/2012/08	2017-02-25	Mid-Ebb	Cloudy	Small wave	CS6	Surface	1	1	2	14:02	17	7.6	26.4	6.58	8.3	12.3
TMCLKL	HY/2012/08	2017-02-25	Mid-Ebb	Cloudy	Small wave	CS6	Middle	6.7	2	1	14:02	17.1	7.73	26.4	6.7	8.43	12.5
TMCLKL	HY/2012/08	2017-02-25	Mid-Ebb	Cloudy	Small wave	CS6	Middle	6.7	2	2	14:02	17.2	7.76	26.5	6.67	8.47	12.6
TMCLKL	HY/2012/08	2017-02-25	Mid-Ebb	Cloudy	Small wave	CS6	Bottom	12.3	3	1	14:02	17.2	7.61	26.6	6.65	8.97	13.3
TMCLKL	HY/2012/08	2017-02-25	Mid-Ebb	Cloudy	Small wave	CS6	Bottom	12.3	3	2	14:02	17.2	7.67	26.5	6.67	8.99	13.5
TMCLKL	HY/2012/08	2017-02-25	Mid-Ebb	Cloudy	Small wave	IS12	Surface	1	1	1	12:22	17.2		26.6	6.54	8.54	11.5
TMCLKL	HY/2012/08	2017-02-25	Mid-Ebb	Cloudy	Small wave	IS12	Surface	1	1	2	12:22	17.1	7.6	26.5	6.56	8.58	11.9
TMCLKL	HY/2012/08	2017-02-25	Mid-Ebb	Cloudy	Small wave	IS12	Middle	6.2	2	1	12:22	17	7.74	26.5	6.47	8.73	11.8
TMCLKL	HY/2012/08	2017-02-25	Mid-Ebb	Cloudy	Small wave	IS12	Middle	6.2	2	2	12:22	17.1	7.77	26.6	6.5	8.77	11.6
TMCLKL	HY/2012/08	2017-02-25	Mid-Ebb	Cloudy	Small wave	IS12	Bottom	11.4	3	1	12:22	17.2		26.7	6.38	8.81	11.7
TMCLKL	HY/2012/08	2017-02-25	Mid-Ebb	Cloudy	Small wave	IS12	Bottom	11.4	3	2	12:22	17.3		26.8	6.34	8.84	11.8
TMCLKL	HY/2012/08	2017-02-25	Mid-Ebb	Cloudy	Small wave	IS13	Surface	1	1	1	12:38	17.1	7.64	26.4	6.63	8.67	12.2
TMCLKL	HY/2012/08	2017-02-25	Mid-Ebb	Cloudy	Small wave	IS13	Surface	1	1	2	12:38	17.2	7.67	26.4	6.65	8.63	11.7
TMCLKL	HY/2012/08	2017-02-25	Mid-Ebb	Cloudy	Small wave	IS13	Middle	5.1	2	1	12:38	17.3		26.5	6.7	8.56	12.1
TMCLKL	HY/2012/08	2017-02-25	Mid-Ebb	Cloudy	Small wave	IS13	Middle	5.1	2	2	12:38	17.2		26.6	6.77	8.6	12.2
TMCLKL	HY/2012/08	2017-02-25	Mid-Ebb	Cloudy	Small wave	IS13		9.2	3	1	12:38	17.4		26.7	6.52	8.63	11.6
TMCLKL	HY/2012/08	2017-02-25	Mid-Ebb	Cloudy	Small wave	IS13	Bottom	9.2	3	2		17.4	7.74	26.8	6.57	8.67	12.2
TMCLKL	HY/2012/08	2017-02-25	Mid-Ebb	Cloudy	Small wave	IS14	Surface	1	1	1		17.1		26.4	6.52	8.61	10.9
TMCLKL	HY/2012/08	2017-02-25	Mid-Ebb	Cloudy	Small wave	IS14	Surface	1	1	2	12:05	17		26.5	6.57	8.67	10.9
TMCLKL	HY/2012/08	2017-02-25	Mid-Ebb	Cloudy	Small wave	IS14		5.5	2	1	12:05	17		26.5	6.74	8.42	10.5
TMCLKL	HY/2012/08	2017-02-25	Mid-Ebb	Cloudy	Small wave	IS14		5.5	2	2	12:05	17		26.5	6.71	8.48	10.7
TMCLKL	HY/2012/08	2017-02-25	Mid-Ebb	Cloudy	Small wave	IS14	Bottom	10	3	1		17.1		26.6	6.56	8.36	10.3
TMCLKL	HY/2012/08	2017-02-25	Mid-Ebb	Cloudy	Small wave	IS14	Bottom	10	3	2	12:05	17.1		26.7	6.59	8.38	10.4
TMCLKL	HY/2012/08	2017-02-25	Mid-Ebb	Cloudy	Small wave	IS15	Surface	1	1	1		17		26.5	6.33	8.66	11.6
TMCLKL	HY/2012/08	2017-02-25	Mid-Ebb	Cloudy	Small wave		Surface	1	1	2	12:54	17.1		26.4	6.37	8.6	11.6
TMCLKL	HY/2012/08	2017-02-25	Mid-Ebb	Cloudy	Small wave	IS15		4.5	2	1	12:54	17.2		26.5	6.69	8.51	11.4
TMCLKL	HY/2012/08	2017-02-25	Mid-Ebb	Cloudy	Small wave	IS15	Middle	4.5	2	2	12:54	17.3		26.6	6.71	8.54	11.4
TMCLKL	HY/2012/08	2017-02-25	Mid-Ebb	Cloudy	Small wave	IS15	Bottom	8	3	1		17.3		26.5	6.71	8.75	11.7
TMCLKL	HY/2012/08	2017-02-25	Mid-Ebb	Cloudy	Small wave	IS15		8	3	2		17.4		26.7	6.77	8.79	11.6
TMCLKL	HY/2012/08	2017-02-25	Mid-Ebb	Cloudy		SR8	Surface	1	1	1	-	17.1		26.5	6.45	8.3	10.7
TMCLKL	HY/2012/08	2017-02-25	Mid-Ebb	Cloudy		SR8	Surface	1	1	2	13:26	17.1		26.6	6.41	8.33	10.5
TMCLKL	HY/2012/08	2017-02-25	Mid-Ebb	Cloudy		SR8	Middle	. 	2	1	13:26	1	<u> </u>		1		1
TMCLKL	HY/2012/08	2017-02-25	Mid-Ebb	Cloudy		SR8	Middle	<b> </b>	2	2	13:26	1	1	1	1		+
	HY/2012/08	2017-02-25	Mid-Ebb	Cloudy			Bottom	4.2	3	1	13:26	17	7.87	26.5	6.53	8.46	10.9
		2017-02-25		Cloudy	Small wave		Bottom		3	2	13:26			26.6	6.57	8.49	10.9

Project	Works	Date	Tide	Weather	Sea Condition	Stat	Level	Water Depth	Lev_Cod	Replicate	Time	Temp(°C)	рН	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)
TMCLKL	HY/2012/08	2017-02-25	Mid-Ebb	Cloudy	Small wave	SR9	Surface	1	1	1	13:10	17	7.64	26.5	6.5	8.59	11
TMCLKL	HY/2012/08	2017-02-25	Mid-Ebb	Cloudy	Small wave	SR9	Surface	1	1	2	13:10	17	7.68	26.5	6.53	8.63	11
TMCLKL	HY/2012/08	2017-02-25	Mid-Ebb	Cloudy	Small wave	SR9	Middle		2	1	13:10						
TMCLKL	HY/2012/08	2017-02-25	Mid-Ebb	Cloudy	Small wave	SR9	Middle		2	2	13:10						
TMCLKL	HY/2012/08	2017-02-25	Mid-Ebb	Cloudy	Small wave	SR9	Bottom	3.6	3	1	13:10	17.3	7.82	26.6	6.42	8.67	11.3
TMCLKL	HY/2012/08	2017-02-25	Mid-Ebb	Cloudy	Small wave	SR9	Bottom	3.6	3	2	13:10	17.2	7.87	26.7	6.44	8.7	10.8
TMCLKL	HY/2012/08	2017-02-25	Mid-Ebb	Cloudy	Small wave	SR10A	Surface	1	1	1	13:43	17.1	7.62	26.4	6.65	8.41	11.1
TMCLKL	HY/2012/08	2017-02-25	Mid-Ebb	Cloudy	Small wave	SR10A	Surface	1	1	2	13:43	17.1	7.66	26.5	6.61	8.44	10.9
TMCLKL	HY/2012/08	2017-02-25	Mid-Ebb	Cloudy	Small wave	SR10A	Middle	6.3	2	1	13:43	17.1	7.84	26.5	6.71	8.53	11
TMCLKL	HY/2012/08	2017-02-25	Mid-Ebb	Cloudy	Small wave	SR10A	Middle	6.3	2	2	13:43	17.2	7.87	26.5	6.74	8.57	11
TMCLKL	HY/2012/08	2017-02-25	Mid-Ebb	Cloudy	Small wave	SR10A	Bottom	11.6	3	1	13:43	17.1	7.92	26.6	6.33	8.69	11.5
TMCLKL	HY/2012/08	2017-02-25	Mid-Ebb	Cloudy	Small wave	SR10A	Bottom	11.6	3	2	13:43	17.1	7.96	26.6	6.36	8.74	11.4
TMCLKL	HY/2012/08	2017-02-28	Mid-Flood	Cloudy	Small wave	CS4	Surface	1	1	1	09:44	17.5	7.72	27.5	7.04	8.25	11.8
TMCLKL	HY/2012/08	2017-02-28	Mid-Flood	Cloudy	Small wave	CS4	Surface	1	1	2	09:44	17.4	7.73	27.6	7.07	8.29	12.1
TMCLKL	HY/2012/08	2017-02-28	Mid-Flood	Cloudy	Small wave	CS4	Middle	8.9	2	1	09:44	17.4	7.86	27.7	7.12	8.47	12.5
TMCLKL	HY/2012/08	2017-02-28	Mid-Flood	Cloudy	Small wave	CS4	Middle	8.9	2	2	09:44	17.5	7.88	27.7	7.14	8.42	11.9
TMCLKL	HY/2012/08	2017-02-28	Mid-Flood	Cloudy	Small wave	CS4	Bottom	17.8	3	1	09:44	17.6	7.92	27.8	7.19	8.5	12.5
TMCLKL	HY/2012/08	2017-02-28	Mid-Flood	Cloudy	Small wave	CS4	Bottom	17.8	3	2	09:44	17.5	7.94	27.9	7.22	8.57	12.7
TMCLKL	HY/2012/08	2017-02-28	Mid-Flood	Cloudy	Small wave	CS6	Surface	1	1	1	07:40	17.2	7.76	27.4	6.67	8.25	11.8
TMCLKL	HY/2012/08	2017-02-28	Mid-Flood	Cloudy	Small wave	CS6	Surface	1	1	2	07:40	17.1	7.78		6.65	8.33	12
TMCLKL	HY/2012/08	2017-02-28	Mid-Flood	Cloudy	Small wave	CS6	Middle	6.8	2	1	07:40	17	7.82	27.6	6.78	8.46	12.5
TMCLKL	HY/2012/08	2017-02-28	Mid-Flood	Cloudy	Small wave	CS6	Middle	6.8	2	2	07:40	17.1	7.83	27.5	6.77	8.51	12.1
TMCLKL	HY/2012/08	2017-02-28	Mid-Flood	Cloudy	Small wave	CS6	Bottom	12.6	3	1	07:40	17.3	7.92		6.82	8.82	12.4
TMCLKL	HY/2012/08	2017-02-28	Mid-Flood	Cloudy	Small wave	CS6	Bottom	12.6	3	2	07:40	17.2	7.94		6.84	8.74	12.5
TMCLKL	HY/2012/08	2017-02-28	Mid-Flood	Cloudy	Small wave	IS12	Surface	1	1	1	09:12	17.4	7.74		7.12	8.32	11.2
TMCLKL	HY/2012/08	2017-02-28	Mid-Flood	Cloudy	Small wave	IS12	Surface	1	1	2	09:12	17.5	7.78	27.5	7.16	8.26	10.9
		2017-02-28	Mid-Flood	Cloudy		IS12		6.4	2	1	09:12		7.83		7.25	8.41	11.4
TMCLKL	HY/2012/08	2017-02-28	Mid-Flood	Cloudy	Small wave	IS12		6.4	2	2	1	17.4		27.6	7.26	8.48	11.3
TMCLKL	HY/2012/08	2017-02-28	Mid-Flood	Cloudy	Small wave	IS12		11.7	3	1		17.3			7.04	8.52	11.4
TMCLKL	HY/2012/08	2017-02-28	Mid-Flood	Cloudy	Small wave	IS12		11.7	3	2	-	17.2			7.08	8.59	11.6
TMCLKL	HY/2012/08	2017-02-28	Mid-Flood	Cloudy		IS13	Surface	1	1	1		17.4			6.95	8.4	11.5
TMCLKL	HY/2012/08	2017-02-28	Mid-Flood	Cloudy		IS13	Surface	1	1	2		17.4			6.92	8.33	11.7
TMCLKL	HY/2012/08	2017-02-28	Mid-Flood	Cloudy	Small wave	IS13		5.4	2	1		17.5			7.12	8.37	11.4
TMCLKL	HY/2012/08	2017-02-28	Mid-Flood	Cloudy		IS13		5.4	2	2		17.4			7.14	8.32	11.3
TMCLKL	HY/2012/08	2017-02-28	Mid-Flood	Cloudy		IS13		9.7	3	1	1	17.6			7.07	8.56	11.9
TMCLKL	HY/2012/08	2017-02-28	Mid-Flood	Cloudy		IS13		9.7	3	2	-	17.5			7.04	8.49	11.7
TMCLKL	HY/2012/08	2017-02-28	Mid-Flood	Cloudy		IS14	Surface	1	1	1		17.4		27.5	7.25	8.41	10.2
TMCLKL	HY/2012/08	2017-02-28	Mid-Flood	Cloudy	Small wave	IS14	Surface	1	1	2		17.4			7.23	8.34	10.4
TMCLKL	HY/2012/08	2017-02-28	Mid-Flood	Cloudy		IS14		5.9	2	1	-	17.5			7.31	8.25	10.4
TMCLKL	HY/2012/08	2017-02-28	Mid-Flood	Cloudy	Small wave	IS14		5.9	2	2		17.4			7.3	8.2	10.3
TMCLKL	HY/2012/08	2017-02-28	Mid-Flood	Cloudy		IS14		10.7	3	<u>-</u> 1		17.6			7.18	8.39	10.1
TMCLKL	HY/2012/08	2017-02-28	Mid-Flood	Cloudy		IS14		10.7	3	2	-	17.5			7.16	8.32	10
TMCLKL	HY/2012/08	2017-02-28	Mid-Flood	Cloudy	Small wave	IS15	Surface	1	1	<u>-</u> 1	08:39	17.3			6.82	8.25	11.4
TMCLKL	HY/2012/08	2017-02-28	Mid-Flood	Cloudy		IS15	Surface	1	1	2		17.4			6.84	8.31	11.1
TMCLKL	HY/2012/08	2017-02-28	Mid-Flood	Cloudy	Small wave	IS15		4.9	2	1	1	17.4			7.05	8.45	11.4
TMCLKL	HY/2012/08	2017-02-20	Mid-Flood	Cloudy		IS15		4.9	2	2	08:39	17.5			7.06	8.53	11.7
TMCLKL	HY/2012/08	2017-02-28	Mid-Flood	Cloudy		IS15 IS15		4.9 8.7	3	1		17.6			7.18	8.33	11.3
TMCLKL	HY/2012/08	2017-02-28	Mid-Flood	Cloudy		IS15 IS15		8.7 8.7	3	2	-	17.5			7.14	8.39	11.5
TMCLKL	HY/2012/08	2017-02-28	Mid-Flood	Cloudy		SR8	Surface	1	1	1	-	17.2			6.95	8.17	10.3
TMCLKL	HY/2012/08	2017-02-28	Mid-Flood	Cloudy	Small wave	SR8	Surface	1	1	2	-	17.2			6.91	8.12	10.2
TMCLKL	HY/2012/08	2017-02-28	Mid-Flood	Cloudy		SR8	Middle	'	2	1	08:11	11.2	1.04		0.01		10.2
TMCLKL	HY/2012/08	2017-02-28	Mid-Flood	Cloudy		SR8	Middle		2	2	08:11			<u> </u>	<del> </del>	+	+
TMCLKL	HY/2012/08	2017-02-28	Mid-Flood	Cloudy		SR8		4.6	<u>د</u> ع	<u>د</u> 1	08:11	17.3	8.06	27.5	6.82	8.38	10.7
TMCLKL	HY/2012/08	2017-02-28	Mid-Flood			SR8		4.0 4.6	3	2	-	17.3			6.83	8.3	10.7
				Cloudy				4.0 1	3 1	4	-						
	HY/2012/08	2017-02-28	Mid-Flood	Cloudy		SR9	Surface	1	1			17.3			7.02	8.32	11
TIVICLKL	HY/2012/08	2017-02-28	IVIIU-F1000	Cloudy	Small wave	SR9	Surface	I	1	2	08:26	1 <i>1</i> .Z	7.83	27.0	7.04	8.27	10.3

Project	Works	Date	Tide	Weather	Sea Condition	Stat	Level	Water Depth	Lev_Cod	Replicate	Time	Temp(°C)	рН	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)
TMCLKL	HY/2012/08	2017-02-28	Mid-Flood	Cloudy	Small wave	SR9	Middle		2	1	08:26						
TMCLKL	HY/2012/08	2017-02-28	Mid-Flood	Cloudy	Small wave	SR9	Middle		2	2	08:26						
TMCLKL	HY/2012/08	2017-02-28	Mid-Flood	Cloudy	Small wave	SR9	Bottom	3.7	3	1	08:26	17.3	7.76	27.7	7.16	8.47	10.6
TMCLKL	HY/2012/08	2017-02-28	Mid-Flood	Cloudy	Small wave	SR9	Bottom	3.7	3	2	08:26	17.3		27.6	7.18	8.41	10.5
TMCLKL	HY/2012/08	2017-02-28	Mid-Flood	Cloudy	Small wave	SR10A	Surface	1	1	1	07:56	17.2		27.4	6.71	8.31	11
TMCLKL	HY/2012/08	2017-02-28	Mid-Flood	Cloudy	Small wave		Surface	1	1	2	07:56	17.3		27.5	6.74	8.35	10.5
TMCLKL	HY/2012/08	2017-02-28	Mid-Flood	Cloudy	Small wave			6.6	2	1	07:56	17.3	7.89	27.6	6.65	8.52	11
TMCLKL	HY/2012/08	2017-02-28	Mid-Flood	Cloudy	Small wave		Middle	6.6	2	2	07:56	17.4		27.7	6.62	8.48	11
TMCLKL	HY/2012/08	2017-02-28	Mid-Flood	Cloudy	Small wave		Bottom	12.1	3	1	07:56	17.2		27.9	6.54	8.46	11.1
TMCLKL	HY/2012/08	2017-02-28	Mid-Flood	Cloudy	Small wave		Bottom	12.1	3	2	07:56	17.1	7.99	28	6.55	8.41	11.1
	HY/2012/08	2017-02-28	Mid-Ebb	Cloudy	Small wave	CS4	Surface	1	1	1	12:28	17.3		27.4	6.94 C.07	8.64	12.6
	HY/2012/08	2017-02-28	Mid-Ebb	Cloudy	Small wave	CS4	Surface	1 0 <b>7</b>	1 2	2	12:28	17.3	7.54	27.5	6.97 7.05	8.67	12.3
	HY/2012/08	2017-02-28	Mid-Ebb	Cloudy	Small wave	CS4		8.7 9.7	2	1	12:28 12:28	17.4		27.6	7.05	8.34	11.8
TMCLKL TMCLKL	HY/2012/08	2017-02-28 2017-02-28	Mid-Ebb	Cloudy	Small wave	CS4 CS4	Middle	8.7 16.3	2	4	-	17.5 17.6	7.66 7.79	27.7 27.7	7.09 7.11	8.31	12.1 12
TMCLKL	HY/2012/08 HY/2012/08	2017-02-28	Mid-Ebb	Cloudy Cloudy	Small wave	CS4 CS4	Bottom	16.3 16.3	ა ვ	2	12:28 12:28	17.0	7.81	27.7	7.11	8.4	12.6
TMCLKL	HY/2012/08	2017-02-28	Mid-Ebb Mid-Ebb	Cloudy	Small wave Small wave	CS4 CS6	Bottom Surface	10.0	J 1	1	12:28	17.3		27.4	7.10 6.9	8.45 8.3	12.0
TMCLKL	HY/2012/08	2017-02-28	Mid-Ebb	Cloudy	Small wave	CS6	Surface	1	1	2	14:42	17.3		27.6	6.93	8.33	12.4
TMCLKL	HY/2012/08	2017-02-28	Mid-Ebb	Cloudy	Small wave	CS6		6.6	2	1	14:42	17.4		27.5	7.05	8.45	12.4
TMCLKL	HY/2012/08	2017-02-28	Mid-Ebb	Cloudy	Small wave	CS6	Middle	6.6	2	2	14:42	17.4		27.6	7.05	8.4 8.4	12.2
TMCLKL	HY/2012/08	2017-02-28	Mid-Ebb	Cloudy	Small wave	CS6	Bottom	12.2	2	1	14:42	17.6		27.7	6.86	8.87	13.1
TMCLKL	HY/2012/08	2017-02-28	Mid-Ebb	Cloudy	Small wave	CS6	Bottom	12.2	3	2	14:42	17.8		27.7	6.9	8.82	12.7
TMCLKL	HY/2012/08	2017-02-28	Mid-Ebb	Cloudy	Small wave	IS12	Surface	12.2	1	1	13:01	17.3		27.4	7.07	8.45	11.7
TMCLKL	HY/2012/08	2017-02-28	Mid-Ebb	Cloudy	Small wave	IS12	Surface	1	1	2		17.4	7.7	27.5	7.03	8.47	11.4
TMCLKL	HY/2012/08	2017-02-28	Mid-Ebb	Cloudy	Small wave	IS12		6.2	2	1	13:01	17.5		27.4	7.14	8.53	11.5
TMCLKL	HY/2012/08	2017-02-28	Mid-Ebb	Cloudy	Small wave	IS12		6.2	2	2	13:01	17.7		27.4	7.17	8.58	11.7
	HY/2012/08		Mid-Ebb	Cloudy				11.3	3	1	13:01				6.95	8.76	12
TMCLKL	HY/2012/08	2017-02-28	Mid-Ebb	Cloudy		IS12		11.3	3	2	13:01			27.6	6.99	8.71	11.5
TMCLKL	HY/2012/08	2017-02-28	Mid-Ebb	Cloudy			Surface	1	1	1	13:17			27.5	6.87	8.64	11.9
TMCLKL	HY/2012/08	2017-02-28	Mid-Ebb	Cloudy	Small wave	IS13	Surface	1	1	2		17.5		27.6	6.9	8.66	12.2
TMCLKL	HY/2012/08	2017-02-28	Mid-Ebb	Cloudy	Small wave	IS13		5.2	2	1		17.6		27.7	6.93	8.42	11.8
TMCLKL	HY/2012/08	2017-02-28	Mid-Ebb	Cloudy	Small wave	IS13		5.2	2	2		17.7		27.8	6.97	8.47	11.5
TMCLKL	HY/2012/08	2017-02-28	Mid-Ebb	Cloudy	Small wave	IS13		9.3	3	1	13:17			27.9	6.78	8.77	12.2
TMCLKL	HY/2012/08	2017-02-28	Mid-Ebb	Cloudy	Small wave	IS13	Bottom	9.3	3	2	13:17	17.7	7.87	27.9	6.82	8.8	11.8
TMCLKL	HY/2012/08	2017-02-28	Mid-Ebb	Cloudy	Small wave	IS14	Surface	1	1	1	12:44	17.3	7.57	27.5	7.03	8.53	10.9
TMCLKL	HY/2012/08	2017-02-28	Mid-Ebb	Cloudy	Small wave	IS14	Surface	1	1	2	12:44	17.3	7.63	27.5	7.07	8.55	10.6
TMCLKL	HY/2012/08	2017-02-28	Mid-Ebb	Cloudy	Small wave	IS14	Middle	5.6	2	1	12:44	17.3	7.77	27.6	7.21	8.37	10.3
TMCLKL	HY/2012/08	2017-02-28	Mid-Ebb	Cloudy	Small wave	IS14	Middle	5.6	2	2	12:44	17.4	7.75	27.7	7.27	8.33	10.2
TMCLKL	HY/2012/08	2017-02-28	Mid-Ebb	Cloudy	Small wave	IS14	Bottom	10.2	3	1	12:44	17.5	7.86	27.8	7.36	8.09	10.4
TMCLKL	HY/2012/08	2017-02-28	Mid-Ebb	Cloudy				10.2	3	2		17.6		27.7	7.3	8.11	9.9
TMCLKL	HY/2012/08	2017-02-28	Mid-Ebb	Cloudy		IS15	Surface	1	1	1		17.3		27.4	6.78	8.56	11.5
TMCLKL	HY/2012/08	2017-02-28	Mid-Ebb	Cloudy	Small wave	IS15	Surface	1	1	2	-	17.4		27.4	6.82	8.51	11.7
TMCLKL	HY/2012/08	2017-02-28	Mid-Ebb	Cloudy	Small wave	IS15		4.6	2	1		17.4		27.5	7.02	8.74	11.5
TMCLKL	HY/2012/08	2017-02-28	Mid-Ebb	Cloudy	Small wave	IS15		4.6	2	2	13:34			27.6	7.07	8.7	12.1
TMCLKL	HY/2012/08	2017-02-28	Mid-Ebb	Cloudy	Small wave			8.2	3	1	13:34			27.6	7.09	8.66	11.8
TMCLKL	HY/2012/08	2017-02-28	Mid-Ebb	Cloudy				8.2	3	2	13:34		7.68		7.11	8.6	11.4
TMCLKL	HY/2012/08	2017-02-28	Mid-Ebb	Cloudy		SR8	Surface	1	1	1		17.3		27.3	7	8.23	10.7
TMCLKL	HY/2012/08	2017-02-28	Mid-Ebb	Cloudy		SR8	Surface	1	1	2		17.4	7.61	27.3	6.97	8.27	10.8
TMCLKL	HY/2012/08	2017-02-28	Mid-Ebb	Cloudy		SR8	Middle		2	1	14:07	l	<b> </b>	<b> </b>	<b> </b>	<b> </b>	<b>_</b>
	HY/2012/08	2017-02-28	Mid-Ebb	Cloudy		SR8	Middle	4.0	2	2	14:07	47 5	7.00	07.5	0.00	0.47	10.7
	HY/2012/08	2017-02-28	Mid-Ebb	Cloudy				4.3	<u>კ</u>	1	14:07			27.5	6.86	8.47	10.7
	HY/2012/08	2017-02-28	Mid-Ebb	Cloudy		SR8		4.3	3 1	2		17.7		27.4	6.81 6.01	8.4	10.7
	HY/2012/08	2017-02-28	Mid-Ebb	Cloudy		SR9	Surface	1	1	1		17.3		27.4	6.91 6.02	8.4	10.5
	HY/2012/08	2017-02-28	Mid-Ebb	Cloudy		SR9	Surface		2	2		17.4	7.55	27.3	6.93	8.47	11
	HY/2012/08	2017-02-28 2017-02-28	Mid-Ebb Mid Ebb	Cloudy Cloudy	Small wave Small wave	SR9	Middle Middle		2	2	13:50	ł		<u> </u>	<u> </u>	1	+
	HY/2012/08	2017-02-20	ממם-מוואו	Cioudy	Small wave	389	Middle		2	2	13:50		1				

Project	Works	Date	Tide	Weather	Sea Condition	Stat	Level	Water Depth	Lev_Cod	Replicate	Time	Temp(°C)	рН	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)
TMCLKL	HY/2012/08	2017-02-28	Mid-Ebb	Cloudy	Small wave	SR9	Bottom	3.3	3	1	13:50	17.3	7.78	27.5	7.04	8.59	10.7
TMCLKL	HY/2012/08	2017-02-28	Mid-Ebb	Cloudy	Small wave	SR9	Bottom	3.3	3	2	13:50	17.3	7.72	27.6	7.08	8.65	10.9
TMCLKL	HY/2012/08	2017-02-28	Mid-Ebb	Cloudy	Small wave	SR10A	Surface	1	1	1	14:24	17.4	7.69	27.4	6.88	8.33	10.6
TMCLKL	HY/2012/08	2017-02-28	Mid-Ebb	Cloudy	Small wave	SR10A	Surface	1	1	2	14:24	17.5	7.65	27.4	6.92	8.36	11
TMCLKL	HY/2012/08	2017-02-28	Mid-Ebb	Cloudy	Small wave	SR10A	Middle	6.2	2	1	14:24	17.5	7.52	27.5	6.95	8.64	11.1
TMCLKL	HY/2012/08	2017-02-28	Mid-Ebb	Cloudy	Small wave	SR10A	Middle	6.2	2	2	14:24	17.6	7.57	27.6	9.99	8.69	11.5
TMCLKL	HY/2012/08	2017-02-28	Mid-Ebb	Cloudy	Small wave	SR10A	Bottom	11.3	3	1	14:24	17.6	7.73	27.7	6.73	8.57	11.1
TMCLKL	HY/2012/08	2017-02-28	Mid-Ebb	Cloudy	Small wave	SR10A	Bottom	11.3	3	2	14:24	17.6	7.78	27.7	6.77	8.6	11.4

Appendix J

Impact Dolphin Monitoring Survey

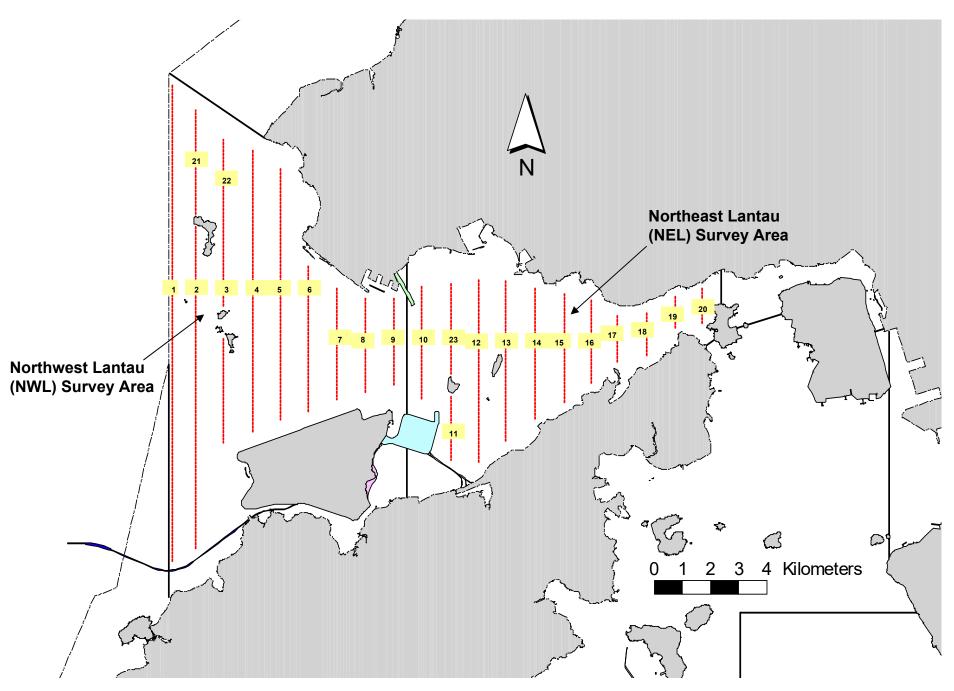


Figure 1. Transect Line Layout in Northwest and Northeast Lantau Survey Areas

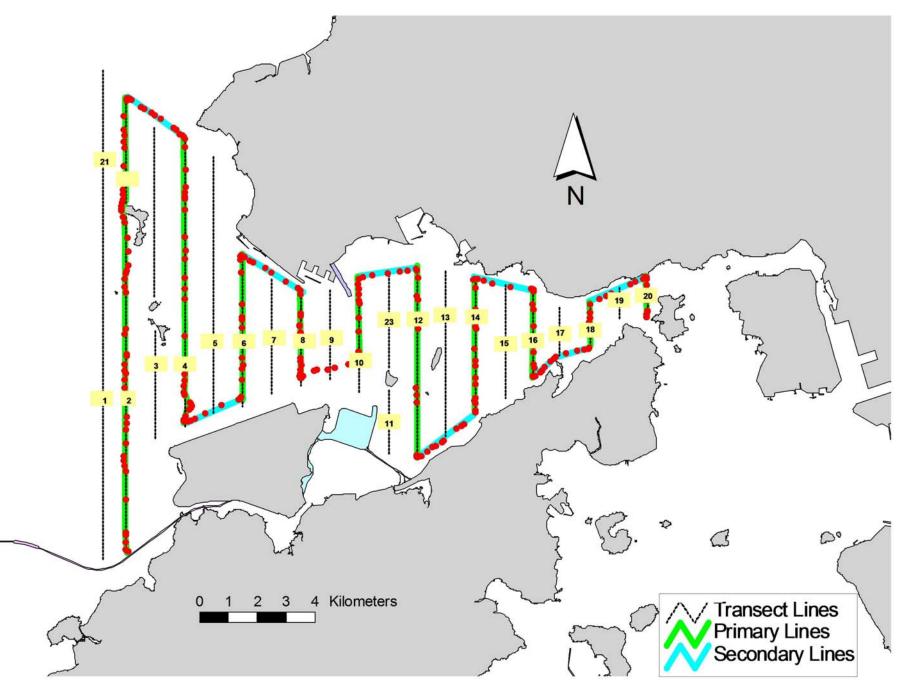


Figure 2. Survey Route on February 7th, 2017 (from HKLR03 survey)

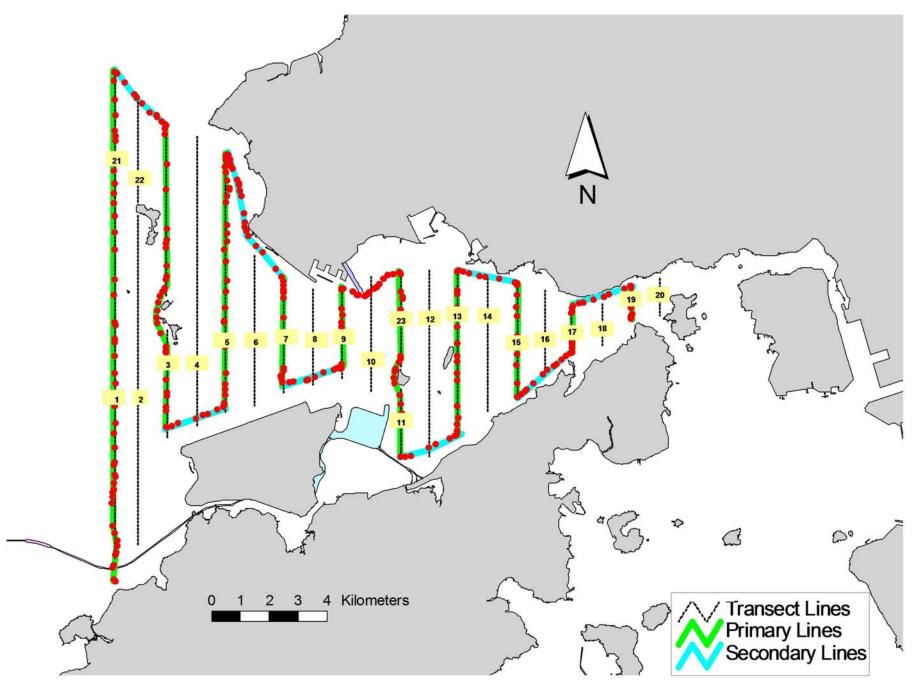


Figure 3. Survey Route on February 9th, 2017 (from HKLR03 survey)

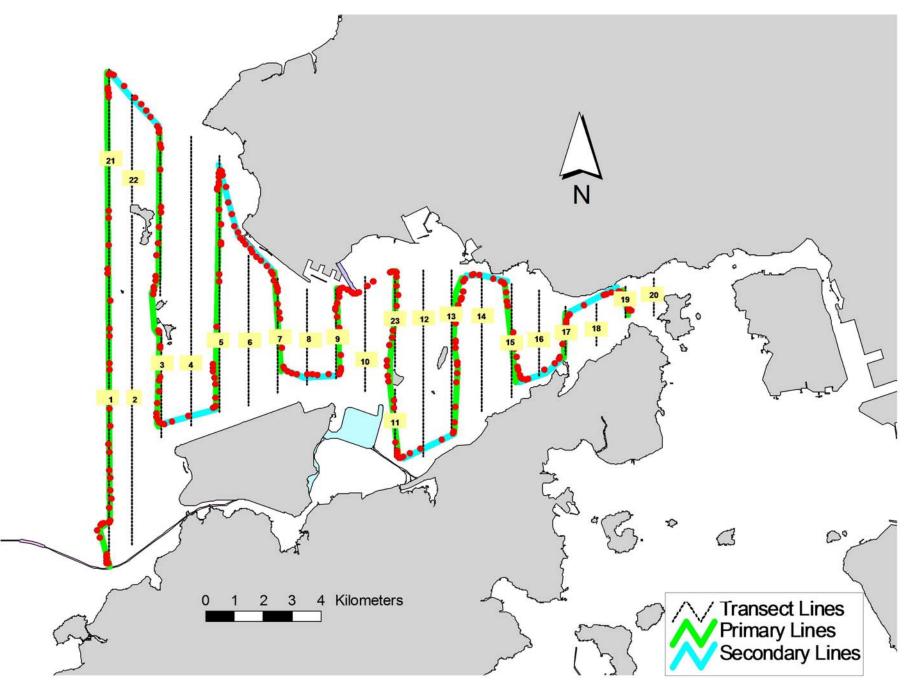


Figure 4. Survey Route on February 16th, 2017 (from HKLR03 survey)

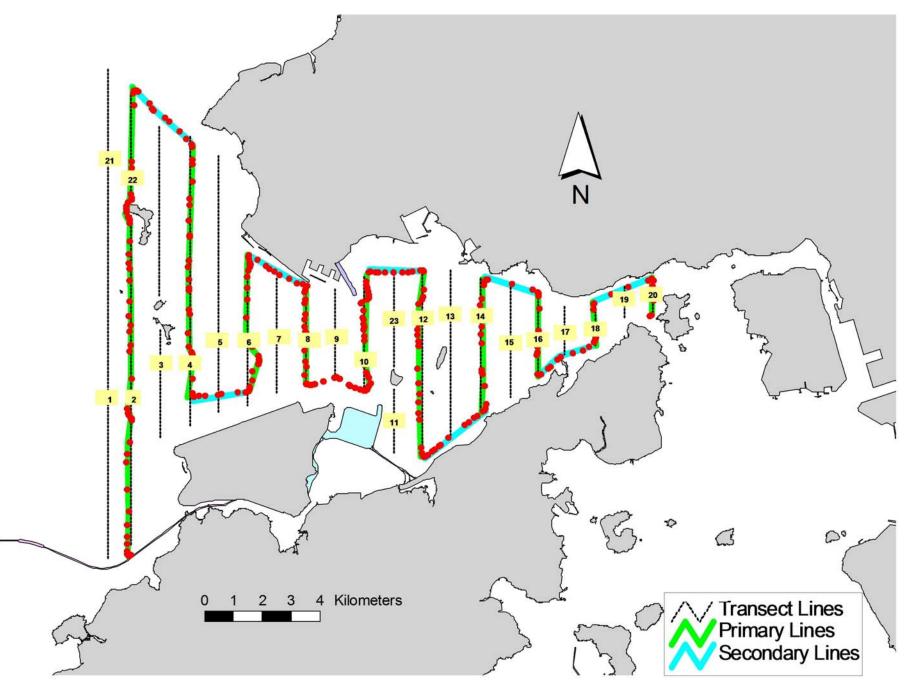


Figure 5. Survey Route on February 21st, 2017 (from HKLR03 survey)

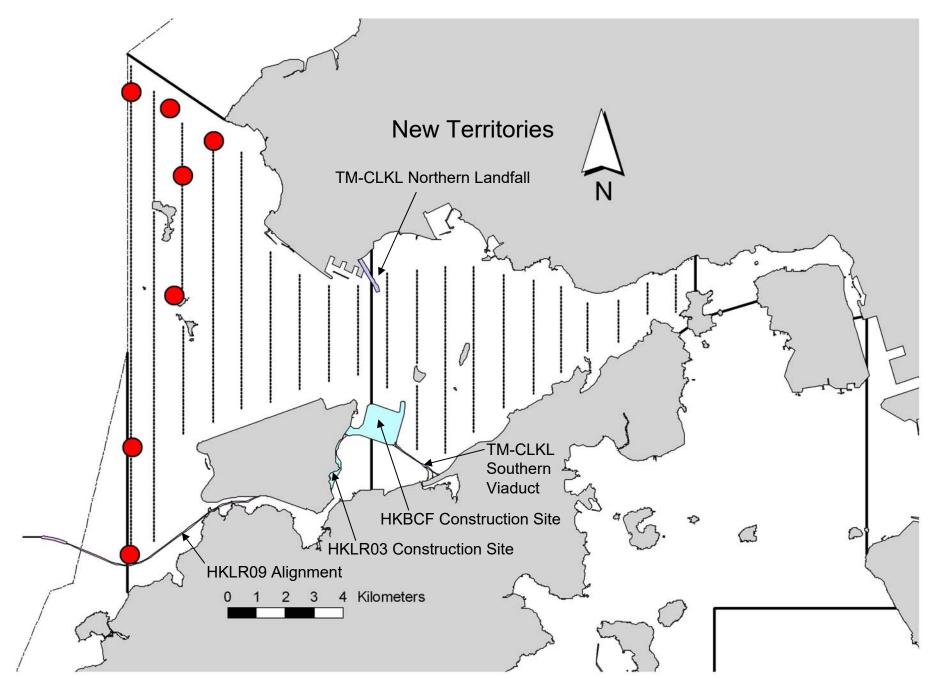


Figure 6. Distribution of Chinese White Dolphin Sightings during February 2017 HKLR03 Monitoring Surveys

# Appendix I. HKLR03 Survey Effort Database (February 2017)

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

DATE	AREA	BEAU	EFFORT	SEASON	VESSEL	TYPE	P/S
7-Feb-17	NE LANTAU	2	0.61	WINTER	STANDARD36826	HKLR	Р
7-Feb-17	NE LANTAU	3	8.22	WINTER	STANDARD36826	HKLR	Р
7-Feb-17	NE LANTAU	4	10.00	WINTER	STANDARD36826	HKLR	Р
7-Feb-17	NE LANTAU	2	0.96	WINTER	STANDARD36826	HKLR	S
7-Feb-17	NE LANTAU	3	5.61	WINTER	STANDARD36826	HKLR	S
7-Feb-17	NE LANTAU	4	4.60	WINTER	STANDARD36826	HKLR	S
7-Feb-17	NW LANTAU	2	1.58	WINTER	STANDARD36826	HKLR	Р
7-Feb-17	NW LANTAU	3	16.98	WINTER	STANDARD36826	HKLR	Р
7-Feb-17	NW LANTAU	4	12.66	WINTER	STANDARD36826	HKLR	Р
7-Feb-17	NW LANTAU	3	5.78	WINTER	STANDARD36826	HKLR	S
7-Feb-17	NW LANTAU	4	1.80	WINTER	STANDARD36826	HKLR	S
9-Feb-17	NE LANTAU	2	4.59	WINTER	STANDARD31516	HKLR	Р
9-Feb-17	NE LANTAU	3	12.25	WINTER	STANDARD31516	HKLR	Р
9-Feb-17	NE LANTAU	2	5.54	WINTER	STANDARD31516	HKLR	S
9-Feb-17	NE LANTAU	3	4.53	WINTER	STANDARD31516	HKLR	S
9-Feb-17	NW LANTAU	2	2.18	WINTER	STANDARD31516	HKLR	Р
9-Feb-17	NW LANTAU	3	8.68	WINTER	STANDARD31516	HKLR	Р
9-Feb-17	NW LANTAU	4	28.37	WINTER	STANDARD31516	HKLR	Р
9-Feb-17	NW LANTAU	3	7.37	WINTER	STANDARD31516	HKLR	S
9-Feb-17	NW LANTAU	4	6.00	WINTER	STANDARD31516	HKLR	S
16-Feb-17	NW LANTAU	2	36.29	WINTER	STANDARD36826	HKLR	Р
16-Feb-17	NW LANTAU	2	10.85	WINTER	STANDARD36826	HKLR	S
16-Feb-17	NE LANTAU	1	0.70	WINTER	STANDARD36826	HKLR	Р
16-Feb-17	NE LANTAU	2	14.21	WINTER	STANDARD36826	HKLR	Р
16-Feb-17	NE LANTAU	2	7.08	WINTER	STANDARD36826	HKLR	S
16-Feb-17	NE LANTAU	3	1.81	WINTER	STANDARD36826	HKLR	S
21-Feb-17	NW LANTAU	3	8.20	WINTER	STANDARD36826	HKLR	Р
21-Feb-17	NW LANTAU	4	18.51	WINTER	STANDARD36826	HKLR	Р
21-Feb-17	NW LANTAU	5	3.99	WINTER	STANDARD36826	HKLR	Р
21-Feb-17	NW LANTAU	2	1.00	WINTER	STANDARD36826	HKLR	S
21-Feb-17	NW LANTAU	3	2.40	WINTER	STANDARD36826	HKLR	S
21-Feb-17	NW LANTAU	4	1.40	WINTER	STANDARD36826	HKLR	S
21-Feb-17		5	2.80	WINTER	STANDARD36826	HKLR	S
21-Feb-17	NE LANTAU	2	1.20	WINTER	STANDARD36826	HKLR	P
21-Feb-17	NE LANTAU	3	13.40	WINTER	STANDARD36826	HKLR	P
21-Feb-17	NE LANTAU	4	5.12	WINTER	STANDARD36826	HKLR	P
21-Feb-17	NE LANTAU	2	0.70	WINTER	STANDARD36826	HKLR	S
21-Feb-17	NE LANTAU	3	4.70 5.59		STANDARD36826		S S
21-Feb-17	NE LANTAU	4	5.58	WINTER	STANDARD36826	HKLR	3

Appendix II. HKLR03 Chinese White Dolphin Sighting Database (February 2017) (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
7-Feb-17	1	1259	3	NW LANTAU	3	ND	OFF	HKLR	828941	807511	WINTER	NONE	
9-Feb-17	1	1510	1	NW LANTAU	4	515	ON	HKLR	829996	805999	WINTER	NONE	S
16-Feb-17	1	1006	2	NW LANTAU	2	325	ON	HKLR	815481	804610	WINTER	NONE	Р
16-Feb-17	2	1027	2	NW LANTAU	2	ND	OFF	HKLR	818991	804710	WINTER	NONE	
16-Feb-17	3	1115	2	NW LANTAU	2	1311	ON	HKLR	830541	804672	WINTER	NONE	Р
16-Feb-17	4	1139	7	NW LANTAU	2	98	ON	HKLR	827813	806448	WINTER	NONE	Р
16-Feb-17	5	1210	8	NW LANTAU	2	4	ON	HKLR	823927	806152	WINTER	NONE	Р

Appendix III. Individual dolphins identified during HKLR03 monitoring surveys in February 2017

ID#	DATE	STG#	AREA
CH105	16/02/17	5	NW LANTAU
NL98	16/02/17	5	NW LANTAU
NL104	16/02/17	4	NW LANTAU
NL123	16/02/17	5	NW LANTAU
NL202	16/02/17	4	NW LANTAU
NL210	09/02/17	1	NW LANTAU
NL260	16/02/17	5	NW LANTAU
NL286	16/02/17	4	NW LANTAU
NL320	16/02/17	4	NW LANTAU
NL321	16/02/17	4	NW LANTAU
WL145	16/02/17	1	NW LANTAU
WL179	16/02/17	5	NW LANTAU
WL261	16/02/17	5	NW LANTAU
WL275	07/02/17	1	NW LANTAU
	16/02/17	4	NW LANTAU



Appendix IV. Photographs of Identified Individual Dolphins in February 2017 (HKLR03)



Appendix IV. (cont'd)

Appendix K

Event and Action Plan

# Event and Action Plan for Impact Air Monitoring

	Action						
	ET (a)		IEC <sup>(a)</sup>		SOR (a)		Contractor(s)
Action Level Exceedance							
1.	Identify the source.	1.	Check monitoring data	1.	Confirm receipt of	1.	Rectify any
2.	Repeat measurement to confirm finding. If two		submitted by the ET.		notification of failure in		unacceptable practice
	consecutive measurements exceed Action Level, the	2.	Check the Contractor's		writing.	2.	Amend working
	exceedance is then confirmed.		working method.	2.	Notify the Contractor.		methods if appropriate
3.	Inform the IEC and the SOR.	3.	If the exceedance is	3.	Ensure remedial measures	3.	If the exceedance is
4.	Investigate the cause of exceedance and check		confirmed to be Project		properly implemented.		confirmed to be Project
	Contractor's working procedures to determine possible		related after investigation,				related, submit
	mitigation to be implemented.		discuss with the ET and the				proposals for remedial
5.	If the exceedance is confirmed to be Project related after		Contractor on possible				actions to IEC within 3
	investigation, increase monitoring frequency to daily.		remedial measures.				working days of
6.	Discuss with the IEC and the Contractor on remedial	4.	Advise the SOR on the				notification
	actions required.		effectiveness of the proposed			4.	Implement the agreed
7.	If exceedance continues, arrange meeting with the IEC		remedial measures.				proposals
	and the SOR.	5.	Supervise implementation of			5.	Amend proposal if
8.	If exceedance stops, cease additional monitoring.		remedial measures.				appropriate

			Action			
	ET (a)	I	EC (a)	SOR (a)		Contractor(s)
Limit Level Exceedance						
Limit Level Exceedance 1. 2. 3. 4. 5. 6. 7. 8. 9.	Identify the source. Repeat measurement to confirm finding. If two consecutive measurements exceed Limit Level, the exceedance is then confirmed. Inform the IEC, the SOR, the DEP and the Contractor. Investigate the cause of exceedance and check Contractor's working procedures to determine possible mitigation to be implemented. If the exceedance is confirmed to be Project related after investigation, increase monitoring frequency to daily. Carry out analysis of the Contractor's working procedures to determine possible mitigation to be implemented. Arrange meeting with the IEC and the SOR to discuss the remedial actions to be taken. Assess effectiveness of the Contractor's remedial actions and keep the IEC, the DEP and the SOR informed of the results. If exceedance stops, cease additional	1. 2. 3. 4. 5.	Check monitoring data submitted by the ET. Check Contractor's working method. If the exceedance is confirmed to be Project related after investigation, discuss with the ET and the Contractor on possible remedial measures. Advise the SOR on the effectiveness of the proposed remedial measures. Supervise implementation of remedial measures.	Confirm receipt of notification of failure in writing. Notify the Contractor. If the exceedance is confirmed to be Project related after investigation, in consultation with the IEC, agree with the Contractor on the remedial measures to be implemented. Ensure remedial measures are properly implemented. 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.	<ol> <li>1.</li> <li>2.</li> <li>3.</li> <li>4.</li> <li>5.</li> </ol>	Take immediate action to avoid further exceedance. If the exceedance is confirmed to be Project related after investigation, submit proposals for remedial actions to IEC within 3 working days of notification. Implement the agreed proposals. Amend proposal if appropriate. Stop the relevant activity of works as determined by the SOR until the exceedance is abated.

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

# Event & Action Plan for Impact Water Quality Monitoring

Event	ET Le	eader	IEC		SO	R	Co	ntractor
Action level being exceeded by one sampling day	1. 2. 3. 4.	Repeat <i>in situ</i> measurement on next day of exceedance to confirm findings; Identify source(s) of impact; Inform IEC, contractor and SOR; Check monitoring data, all plant, equipment and Contractor's working methods.	1.	Check monitoring data submitted by ET and Contractor's working methods.	1. 2.	Confirm receipt of notification of non- compliance in writing; Notify Contractor.	1. 2. 3.	Inform the SOR and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Amend working methods if appropriate.
Action level being exceeded by two or more consecutive sampling days	1.         2.         3.         4.         5.         6.         7.	Repeat measurement on next day of exceedance to confirm findings; Identify source(s) of impact; Inform IEC, Contractor, SOR and EPD; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IEC, SOR and Contractor; Ensure mitigation measures are implemented; Increase the monitoring frequency to daily until no exceedance of Action level;	1.         2.         3.         4.	Check monitoring data submitted by ET and Contractor's working method; Discuss with ET and Contractor on possible remedial actions; Review the proposed mitigation measures submitted by Contractor and advise the SOR accordingly; Supervise the implementation of mitigation measures.	1.         2.         3.	Discuss with IEC on the proposed mitigation measures; Ensure mitigation measures are properly implemented; Assess the effectiveness of the implemented mitigation measures.	1. 2. 3. 4.	Inform the Supervising Officer and confirm notification of the non- compliance in writing; Rectify unacceptable practice; Check all plant and equipment and consider changes of working methods; Submit proposal of additional mitigation measures to SOR within 3 working days of notification and discuss with ET, IEC and SOR; 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	1.	Confirm receipt of notification of failure in	1.	Inform the SOR and confirm notification of the

Event	ET Leader	IEC	SOR	Contractor
	<ol> <li>Identify source(s) of impact;</li> <li>Inform IEC, Contractor, SOR and EPD;</li> <li>Check monitoring data, all plant, equipment and Contractor's working methods;</li> <li>Discuss mitigation measures with IEC, SOR and Contractor;</li> </ol>	<ol> <li>Contractor, SOR and</li> <li>Discuss with ET and Contractor on possible remedial actions;</li> <li>Review the proposed mitigation measures with</li> <li>Review the proposed mitigation measures</li> </ol>	<ul> <li>writing;</li> <li>2. Discuss with IEC, ET and Contractor on the proposed mitigation measures;</li> <li>3. Request Contractor to review the working methods.</li> </ul>	<ol> <li>non-compliance in writing;</li> <li>Rectify unacceptable practice;</li> <li>Check all plant and equipment and consider changes of working methods;</li> <li>Submit proposal of mitigation measures to SOR within 3 working days of notification and discuss with ET, IEC and SOR.</li> </ol>
Limit level being exceeded by two or more consecutive sampling days	<ol> <li>Repeat measurement on next day of exceedance to confirm findings;</li> <li>Identify source(s) of impact;</li> <li>Inform IEC, contractor, SOR and EPD;</li> <li>Check monitoring data, all plant, equipment and Contractor's working methods;</li> <li>Discuss mitigation measures with IEC, SOR and Contractor;</li> <li>Ensure mitigation measures are implemented;</li> <li>Increase the monitoring frequency to daily until no exceedance of Limit level for two consecutive days;</li> </ol>	<ul> <li>a to confirm findings;</li> <li>b submitted by ET and Contractor's working method;</li> <li>c, contractor, SOR and</li> <li>c, contractor, SOR and</li> <li>data, all plant, rand Contractor's working</li> <lidata, all<="" td=""><td><ul> <li>Ensure mitigation measures are properly implemented;</li> <li>Consider and instruct, if</li> </ul></td><td>mitigation measures if problem still not under control;</td></lidata,></ul>	<ul> <li>Ensure mitigation measures are properly implemented;</li> <li>Consider and instruct, if</li> </ul>	mitigation measures if problem still not under control;

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

# Event/Action Plan for Impact Dolphin Monitoring

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

EVENT		ACTION		
	ET	IEC	SOR	Contractor
	<ol> <li>Identify source(s) of impact;</li> <li>Inform the IEC, SOR and Contractor of findings;</li> <li>Check monitoring data;</li> <li>Repeat review to ensure all the dolphin protective measures are fully and properly implemented and advise on additional measures if necessary.</li> <li>If ET proves that the source of impact is caused by any of the construction activity by the works contract, ET to arrange a meeting to discuss with IEC, SOR and Contractor the necessity of additional dolphin monitoring and/or any other potential mitigation measures (e.g., consider to modify the perimeter silt curtain or consider to control/temporarily stop relevant construction activity etc.) and submit to IEC a proposal of additional dolphin monitoring and/or mitigation measures where necessary.</li> </ol>	<ul> <li>Contractor the necessity of additional dolphin monitoring and any other potential mitigation measures.</li> <li>4. Review proposals for additional monitoring and any other mitigation measures submitted by ET and Contractor and advise SOR of the results and findings accordingly.</li> <li>5. Supervise / Audit the implementation of additional monitoring and/or any other mitigation measures and advise SOR the results and findings accordingly.</li> </ul>	<ul> <li>proposals for additional dolphin monitoring and/or any other mitigation measures submitted by ET and Contractor and verified by IEC, SOR to signify the agreement in writing on such proposals and any other mitigation measures.</li> <li>3. Supervise the implementation of additional monitoring and/or any other mitigation measures.</li> </ul>	<ul> <li>potential mitigation measures.</li> <li>3. Jointly submit with ET to IEC a proposal of additional dolphin monitoring and/or any other mitigation measures when necessary.</li> <li>4. Implement the agreed additional dolphin monitoring and/or any other mitigation measures.</li> </ul>

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

Appendix L

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

### Table L1Cumulative Statistics on Exceedances

Parameters	Level of Exceedance	Total No. recorded in this reporting month	Total No. recorded since project commencement
1-hr TSP	Action	0	30
	Limit	0	2
24-hr TSP	Action	0	5
	Limit	0	1
Water Quality	Action	0	6
	Limit	0	1
Impact Dolphin	Action	0	9
Monitoring	Limit	1	8

# Table L2Cumulative Statistics on Complaints, Notifications of Summons and<br/>Successful Prosecutions

<b>Reporting Period</b>		<b>Cumulative Statistics</b>	
	Complaints	Notifications of	Successful
		Summons	Prosecutions
This Reporting Month	1(1)	0	0
(February 2017)			
Total No. received	13	0	0
since project			
commencement			

<sup>(1) &</sup>lt;sup>(1)</sup> Environmental complaint case regarding muddy water discharge at the site area near Ho Yeung Street on 14 February 2017 is under investigation and no investigation report is available yet.

ENVIRONMENTAL RESOURCES MANAGEMENT



### ENVIRONMENTAL COMPLAINT INVESTIGATION REPORT

Our Reference: 0212330\_Complaint LOG\_20170116\_10

### **Basic Information of Complaints**

Reference Number:	EP3/N09/RS/00001641-17
Date of Complaints Received	Not disclosed
Location of Complaints	East of artificial island of the Hong Kong - Zhuhai-Macao Bridge
Nature of Complaints	Sewage discharge
Complaints Received by	EPD
Via	Not disclosed
Complainants	Not disclosed

### **Details of Complaints**

On 16 January 2017, the Contractor and the Environmental Team (ET) received the complaint notification from EPD forwarded by IEC regarding sewage discharge during night-time at DBJV's construction site at the east of the artificial island of the Hong Kong – Zhuhai–Macao Bridge.

### Investigation Report

Upon receiving the case notification from IEC on 16 January 2017, the Contractor had promptly checked the site inspection record in January 2017.

According to the site inspection record provided by the Contractor, no improper discharge was recorded up to 17 January 2017. Wastewater was treated in the Wetsep before discharge. Photos of the Wetsep and the discharge point which are provided by the Contractor are presented in Annex A. Regular inspection and maintenance of the Wetsep were also carried out to ensure that the wastewater was treated properly before discharge. Wetsep inspection record is provided in Annex B.

In addition, according to ET's weekly joint site inspection with SOR and the Contractor on 18 January 2017 morning, no improper discharge was observed at the site area at the east of artificial island. Wetsep was also functioning properly and wastewater was treated before discharge. Site drainage management plan showing the Wetsep and the discharge point is provided in Annex C. Site foreman was responsible for the operation of the Wetsep and water pipes. Photos showing the discharge point and Wetsep which were taken on 18 January 2017 are provided in Annex A. Moreover, major works during the incident period included jet grouting, CSM ground treatment and diaphragm wall construction. Construction programme is provided in Annex D.

Apart from the site investigation, ET has conducted an interview with the night-shift foreman on 24 January 2017. He was responsible for the site management and wastewater discharge arrangement during the incident period. It was reported that there was no improper discharge on site during the concerned time period. Wastewater was properly treated at the Wetsep before discharge.

Based on the above, the complaint case is considered to be not related to this Contract.

### Mitigation Measures and Follow-Up Actions Recommended to/Undertaken by Contractor

The Contractor has been reminded to adhere strictly to implement all relevant mitigation measures of water quality impact recommended or specified in the EP (EP-354/2009/D), the approved EIA and the Updated EM&A Manual of this Project to avoid causing water pollution. The Contractor shall also fully comply with the conditions in the approved water discharge license to carry out construction works under the Contract.

1) Pursuant to ER Part 8 Appendix 8F Cl.8F.4(d), the dosing of coagulant and flocculant at the treatment plant shall be automatic and by means of a mixer. In addition, an automatic alkali and acid dosing device controlled by a feedback loop from an automatic pH sensor shall be provided for controlling the pH value of the effluent.

2) A discharge point sign should be prominently displayed on site to indicate the location of discharge point.

3) Good housekeeping should be maintained on site for easy identification of water pipe arrangement.

4) The wastewater treatment facilities should be operated by designated personnel to ensure proper functioning.

Date of File Closed : 1 March 2017

Approved and Filed by:

fre

(Jovy Tam, ET Leader) Date: 1 March 2017

Annex A

Photo record



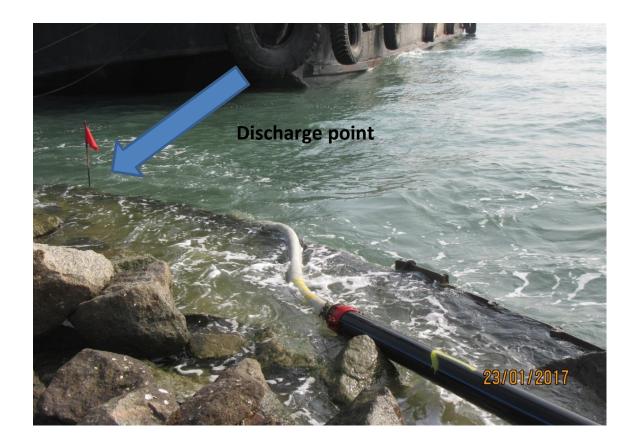
# Annex A Photo Records taken by the Contractor

\*Note: Photos taken on 11/1/2017



### Wastewater was treated in the Wetsep before discharge.

\*Note: Photos taken on 23/1/2017



Condition near the point of discharge which did not reveal any observable evidence of improper discharge



## Annex A Photo Records taken by the Contractor

\*Note: Photos taken on 13/1/2017



Condition of the site area at the east of HKBCF artificial island which did not reveal any observable evidence of improper discharge



\*Note: Photos taken on 16/1/2017

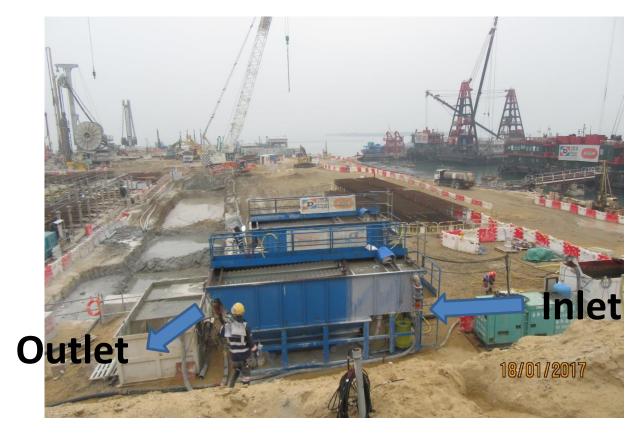
Condition of the site area at the east of HKBCF artificial island which did not reveal any observable evidence of improper discharge



## Annex A Photo Records taken during Site Investigation \*Note: Photos taken on 18/1/2017



Condition near the point of discharge which did not reveal any observable evidence of improper discharge \*Note: Photos taken on 18/1/2017



Wastewater was treated in the Wetsep before discharge.

Annex B

Inspection record of Wetsep

		Draph	рание и станование и положите и станование и станов По и станование и стан		ract No. HY/201 In – Chek Lap H nection Sub-sea T		WETSEI 污水	P Checki 處理機檢	ng Reco 查記錄	rd
		WE Dat	ETSEP Location 污水處: e 日期:	里機位置:	23 9-1-201		15-1-2	0,7		
	-		WETSEP In Normal	Mond 星期·	ay Tuesday	Wednesd		<u>Friday</u> 星期五	<u>Saturday</u> 星期六	<u>Sunday</u> 星期日
	-	1.	Operation? 處理機是否正常運作	1/	V	1	V	$\checkmark$	1	22.701
	L	2.	pH Value 酸鹼度 (6.0 – 9.0)	8	8-2	8-3	8-2	8-1	8-2	
	3		Electrical Supply OK? 電力供應正常?		V	V		~		
	4.	1 4	Outlet Abnormal? (An Sludge? Any Colour Change? Flowrate?) 水口有否異常? (汚泥: 積聚? 顔色有否改變? 量有否異常?)	有情望之	<b>有異</b> 常	方景省	方景常	方要常	有限常	
	5.		Potion Enough? 藥水是否足夠?	$\checkmark$				V	1	
	6.		ean the Sedimentation Tank? 有否清理隔沙缸?	有 9:30	有 9=30	有 923	o 有 9230	有9:30	<u></u> 有9:30	2
L	7.		ean the De-silt Basin? 有否清理蓄泥池?	有10:00	A6:00	友10:00	萬6:00	\$ 10:0	1点10:0	b
8		of S D	the Cleansing Records Gedimentation Tank/ e-silt Basin Stored Properly? 舊泥池記錄是否妥善 儲存?			$\checkmark$	V	V	V	
9.			Others 其他情況	的正常	一切正常	-切正常	一场正常	初武	3-102	17 P
地	Fore	man	ed by Site /Supervisor 監督簽署確認	30 B	aff.	*F	it	3	7 7	X

\*Please -

tick (√) in the box if the condition is normal. \*若情況正常, 請於方格內加上剔號(√)。 cross (X) in the box if the condition is abnormal, and write down the non-conformance. \*若情況不尋常, 請於方格內加上交叉(X), 並寫下不尋常狀況。 17/01/2017

1	0.00	Register Processo Pro	Contrac Tuen Mun – Northern Connect	t No. HY/2012/ Chek Lap Kok ion Sub-sea Tunn	Link	WETSEI 污水	P Check 處理機板	ting Rec 會查記錄	ord
		ETSEP Location 污水處理		23					
	Da	ite 日期:			人 to 至。	22-1-201	7		
			Monday 星期一	<u>Tuesday</u> 星期二	Wednesd	av <u>Thursday</u> 星期四	<u>Friday</u> 星期五	<u>Saturday</u> 星期六	Sunday
	1.	WETSEP In Normal Operation? 處理機是否正常運作?	, /	~				<u>==</u>	星期日
	2.	pH Value 酸鹼度 (6.0 – 9.0)	8-1	8.7					
	3.	Electrical Supply OK? 電力供應正常?							
4		Outlet Abnormal? (Any Sludge? Any Colour Change? Flowrate?) 出水口有否異常? (污泥有 否積聚? 顏色有否改變? 泳 量有否異常?)	大学家	方吴帝					
5.		Potion Enough? 藥水是否足夠?	~						
6.		Clean the Sedimentation Tank? 有否清理隔沙缸?	1/2 09730	荫10230					
	-	Clean the De-silt Basin? 有否清理蓄泥池?	有10:00	有川の					
	0	e the Cleansing Records f Sedimentation Tank/ De-silt Basin Stored Properly? 里蓄泥池記錄是否妥善 儲存?		~					
		Others 其他情況	切起常,	机正带					
	rem	rified by Site han/Supervisor 二/監督簽署確認	Yes	MAN NO					

# 17/01/2017

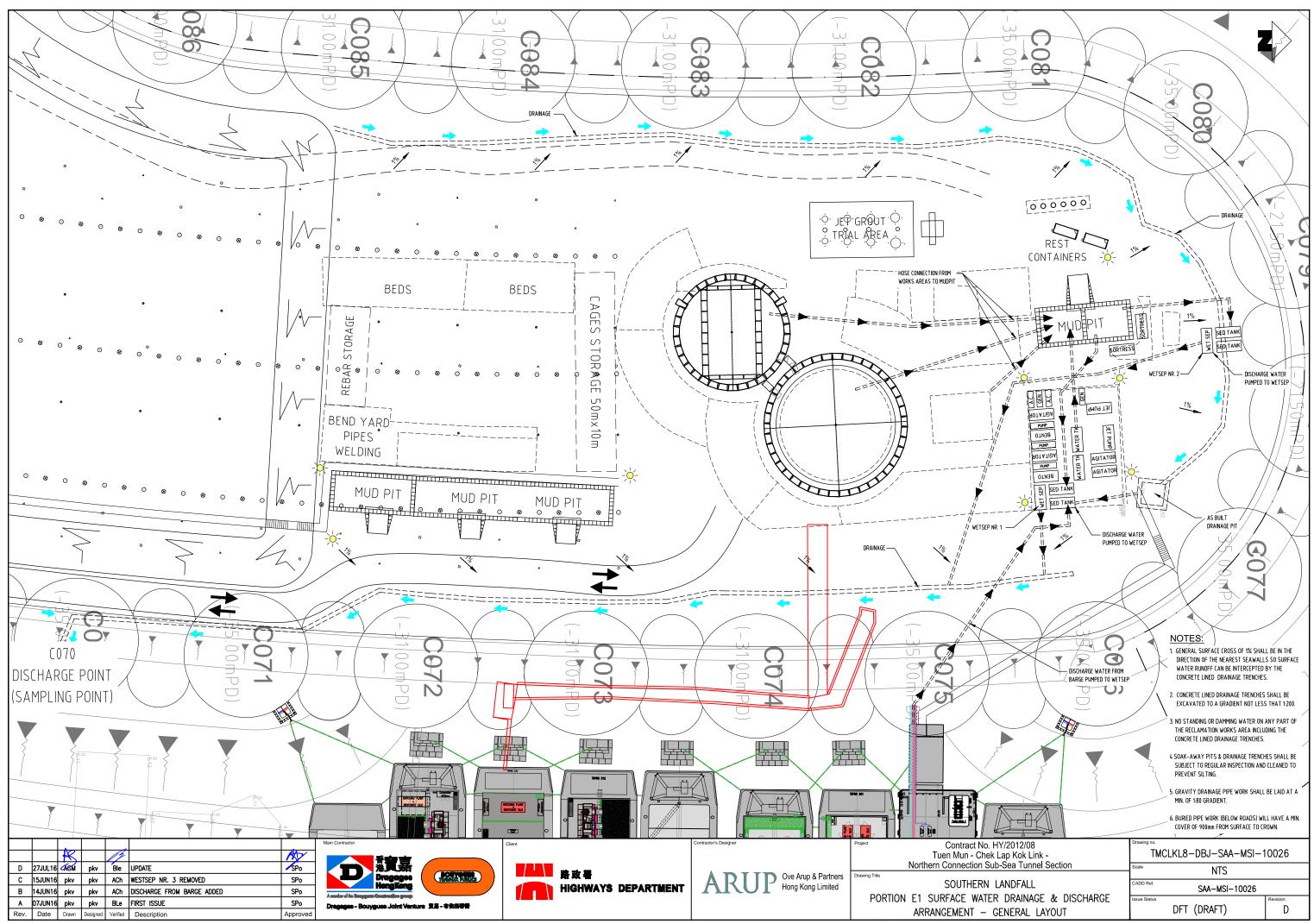
\*Please -

tick ( $\sqrt{}$ ) in the box if the condition is normal. \*若情況正常, 請於方格內加上剔號( $\sqrt{}$ )。 cross (X) in the box if the condition is abnormal, and write down the non-conformance. \*若情況不尋常, 請於方格內加上交叉(X), 並寫下不尋常狀況。

Remarks:

Annex C

Site Drainage Management Plan



THE OWNERSHIP OF THE COPYRIGHT IN THIS DRAWING IS RETAINED BY THE ISSUER WHOSE CONSENT MUST BE OBTAINED BEFORE ANY USE OR REPRODUCTION OF THE DRAWING OR ANY PART THEREOF CAN BE MADE.

Annex D

Construction programme

ty Name	Orig Dur	DWPF Start	DWPF Finish	% Comp	Oct	2016 Nov	Dec	Jan	Feb	2017 Mar /	Apr I
MCLK - Northern Connection Sub-Sea Tunnel Section											
Contract Dates											
Commencement and Completion Dates KD01 - Achievement of Stage 1 - Nth TBM & C&C for E&MS/TCSS	0		09-Jan-17	0%	-		1	▲ KD01 -	Achievement of	Stage 1 - Nth TBN	4 & C&C for F
Site Possession Date			00 001117	078				V KDUT-	Achievement	Stage 1 - Million	I & CACIOI E
Portions: X1,(N10,11,13 & 14) - Sth Landfall	0	06-Aug-15		0%							
Portions: N1 to N4 & N12 General Submissions	0		03-Dec-16	0%			Portions: N	1 to N4 & N12	2		
Environmental											
Environmental Permit Submissions			-								
Supplementary WMP of C&C Tunnel at Sth.Landfall Supplementary WMP of C&C Tunnel at Sth.Landfall	0	İ	28-Jun-14	0%	-						
Sediment Quality Report/Dumping Permit	Ű		Lo duit 14	070							
Southern Landfall				_							
Southern landfall - Commencement of Shaft & C&C Tunnel Dwall	0	03-Oct-15		0%							
Sediment Sampling & Testing Plan (SSTP) - if required Complete SSTP and Obtain EPD's approval	24	17-Feb-15	19-Mar-15	50%							
Sediment Quality Report (SQR) - if required						 	1				
Advance Ground Investigation works for Sediment sampling Sediment Sample Testing & Report preparation	24 120	20-Mar-15 22-Apr-15	21-Apr-15 12-Sep-15	90% 0%		1 1 1	1				
Dumping Permit for Load Dumping (Loading Permit) - if required	120	22-Api-15	12-3ep-13	0 /8							
Finalize the applivation doucment and submit to EPD - for Dwall	24	20-Jan-15	16-Feb-15	0%							
Notify the results and issue Loading Permit for Local & Cross Boundary Crossing - for Dwall	24	17-Feb-15	19-Mar-15	0%							
General Design Submissions (G6) IFA for Tunnel GBP											
SO's Review	35	29-Apr-14	02-Jun-14	100%							 
SO Approval with Condition Received	0		03-Jun-14	100%							
PAYMENT MILESTONE											
Design and Design Checking of the Works MS 2.5 SubmitAIP for seawall modification works at Southern Landfall	0	1	31-Jan-17	100%			1		MS 2.5 Subm	nitAIP for seawall r	nodification w
MS 2.32 Approve DDA for Approach Ramp Structures to Cut-and-cover Tunnels by the Supervising Officer	0		30-Apr-15	100%			 1 1			     	
MS 2.44 Approve DDA for South Ventilation Building by the Supervising Officer	0		30-Jun-15	0%	-						
MS 2.48 Approve DDA for North Ventilation Building by the Supervising Officer MS 2.52 Approve DDA for Facilities Provision for TCSS by the Supervising Officer	0		31-Jan-15 28-Feb-15	100% 0%							
MS 2.56 Approve DDA for Drainage, Sewerage, Waterworks and Utilities at Southern Landfall by the Supervi	-		30-Apr-15	100%							
MS 2.60 Approve DDA for Drainage, Sewerage, Waterworks and Utilities at Northern Landfall by the Supervix			31-Dec-14	0%							
MS 2.69 Submit draft Operation and Maintenance Manual for all Tunnels and Cross Passgaes MS 2.70 Accept Operation and Maintenance Manual for all Tunnels and Cross Passgaes by the Supervising	0		29-Feb-16 30-Jun-16	0%	noo Manual fr		nd Cross Bas	anna by tha Si			
MS 2.71 Submit draft Operation and Maintenance Manual for all works except Tunnels and Cross Passgaes	0		29-Feb-16	0%	Passgaes			spaces by the Si	upervising Office		
MS 2.72 Accept Operation and Maintenance Manual for all works except Tunnels and Cross Passgaes by the	0		30-Jun-16	0%	nce Manual fo	r all works exc	ept Tunnels a	rd Cross Pass	gaes by the Sup	ervising Offic	
Tunnel Boring Machine (TBM) and Back-up Equipment for TBM Tunnel			01 1 1 7	0.01							
MS 3.1.6 Removal of TBM for Southbound Tunnel from Site after the completion of TBM Tunnel MS 3.1.12 Removal of TBM for Northbound Tunnel from Site after the completion of TBM Tunnel	0		31-Jan-17 28-Feb-17	0%	-					moval of TBM for S MS 3.1.12 Remov	1
MS 3.1.25 Demolition of Slurry Treatment Plant on completion	0		28-Feb-17	0%					i i i	MS 3.1.25 Demoli	i i
MS 3.1.26 Complete the whole of the activities under this Cost Centre Part to the satisfaction of the Supervisin	0		31-Dec-15	0%							
TBM Tunnel MS 3.3.4 Complete walls of retrieval shaft	0		30-Jan-16	0%							
MS 3.3.5 Complete excavation to formation level for retrieval shaft and complete casting of base slab	0		30-Nov-16	0%		•	MS 3.3.5 Co	omplete excava	ation to formatior	n level for retrieval	shaft and cor
MS 3.3.6 Complete all necessary works of retrieval shaft to facilitate retrieval of TBM	0		30-Nov-16	0%		i.	1	1 ·	i (	retrieval shaft to fa	cilitate retriev
MS 3.3.33 Completion of excavation, support and permanent lining for 30% of the total length (measured on MS 3.3.34 Completion of excavation, support and permanent lining for 32.5% of the total length (measured or			31-May-16 30-Jun-16	100%				e asured on pla	neasured on pla	n) of the	
MS 3.3.35 Completion of excavation, support and permanent lining for 35% of the total length (measured on J	0		30-Jun-16	100%		-			asured on plan)		
MS 3.3.36 Completion of excavation, support and permanent lining for 37.5% of the total length (measured or			30-Jun-16	100%		1	1		neasured on pla		
MS 3.3.37 Completion of excavation, support and permanent lining for 40% of the total length (measured on MS 3.3.38 Completion of excavation, support and permanent lining for 42.5% of the total length (measured or	0		30-Jul-16 30-Jul-16	100%		i i			1 T T T	sured on plan) of t asured on plan) o	1
MS 3.3.39 Completion of excavation, support and permanent lining for 45% of the total length (measured on j	0		30-Jul-16	100%			4		4	sured on plan) of t	
MS 3.3.40 Completion of excavation, support and permanent lining for 47.5% of the total length (measured or			30-Jul-16	100%			-			asured on plan) o	i i
MS 3.3.41 Completion of excavation, support and permanent lining for 50% of the total length (measured on MS 3.3.42 Completion of excavation, support and permanent lining for 52.5% of the total length (measured or			31-Aug-16 31-Aug-16	100%		1		, v	i i	al length (measure otal length (measu	
MS 3.3.43 Completion of excavation, support and permanent lining for 55% of the total length (measured on )			31-Aug-16	0%		1	· · · ·		1 I I I	al length (measure	i (
MS 3.3.44 Completion of excavation, support and permanent lining for 57.5% of the total length (measured or			31-Aug-16	0%	-	1		-	1	otal length (measu	1 .
MS 3.3.45 Completion of excavation, support and permanent lining for 60% of the total length (measured on MS 3.3.46 Completion of excavation, support and permanent lining for 62.5% of the total length (measured or			31-Aug-16 30-Sep-16	0%				-	1 I I	al length (measure 62.5% of the total	
MS 3.3.47 Completion of excavation, support and permanent lining for 65% of the total length (measured on )	0		30-Sep-16	0%		i 1				65% of the total le	
	0		30-Sep-16	0%	MS 3.3.48 (	completion of	excavation, sup	port and perm	hanent lining for	67.5% of the total	length (meas
MS 3.3.48 Completion of excavation, support and permanent lining for 67.5% of the total length (measured or			30-Sep-16	0%		1.1	1	· ·		70% of the total le	<b>U</b> ( )
MS 3.3.49 Completion of excavation, support and permanent lining for 70% of the total length (measured on )	0		01 Oct 16			MS 3.3.50		•	i	nent lining for 72.	i
			31-Oct-16 31-Oct-16	0%	1 🔹		Completion of e	titavaliun. Sul	poort and perma	nent lining for 75%	
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MS 3.3.49 Completion of excavation, support and permanent lining for 70% of the total length (measured on 1 MS 3.3.50 Completion of excavation, support and permanent lining for 72.5% of the total length (measured on 1 MS 3.3.51 Completion of excavation, support and permanent lining for 75% of the total length (measured on 1 MS 3.3.52 Completion of excavation, support and permanent lining for 77.5% of the total length (measured on 1 MS 3.3.53 Completion of excavation, support and permanent lining for 75% of the total length (measured on 1 MS 3.3.54 Completion of excavation, support and permanent lining for 80% of the total length (measured on 1 MS 3.3.55 Completion of excavation, support and permanent lining for 82.5% of the total length (measured on 1 MS 3.3.55 Completion of excavation, support and permanent lining for 87.5% of the total length (measured on 1 MS 3.3.55 Completion of excavation, support and permanent lining for 87.5% of the total length (measured on 1 MS 3.3.56 Completion of excavation, support and permanent lining for 90% of the total length (measured on 1 MS 3.3.57 Completion of excavation, support and permanent lining for 92.5% of the total length (measured on 1 MS 3.3.58 Completion of excavation, support and permanent lining for 92.5% of the total length (measured on 1 MS 3.3.59 Completion of excavation, support and permanent lining for 95% of the total length (measured on 1 MS 3.3.60 Completion of excavation, support and permanent lining for 97.5% of the total length (measured on 1 MS 3.3.61 Completion of excavation, support and permanent lining for 50% of the total length (measured on 1 MS 3.3.97 Completion of excavation, support and permanent lining for 52.5% of the total length (measured on 1 MS 3.3.98 Completion of excavation, support and permanent lining for 52.5% of the total length (measured on 1 MS 3.3.98 Completion of excavation, support and permanent lining for 52.5% of the total length (measured on 1 MS 3.3.98 Completion of excavation, support and permanent lining for 52.5% of th	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		31-Oct-16 31-Oct-16 30-Nov-16 30-Nov-16 30-Nov-16 30-Nov-16 31-Dec-16 31-Dec-16 31-Dec-16 30-Jul-16 30-Jul-16 30-Jul-16 31-Aug-16	0%           100%           100%	ccavation, sup ccavation, sup ccavation, sup ompletion of Completion o Completion o	MS 3.3.51 MS 3.3.52 MS 3.3.53 MS 3.3.53 MS 3.3.53 MS 3.3.53 MS 3.3.53 MS 3.3.53 MS 3.3.53 MS 3.3.53 MS 3.3.54 MS 3.3.55 MS 3.3.54 MS 3.3.55 MS 3.5	Completion of a Completion of a MS 3.3.54 C MS 3.3.55 C MS 3.3.56 C MS 3.3.57 C MS 3.3.58 C MS 3.58 C MS 3	excavation, sup excavation, sup ompletion of e ompletion of e ompletion of e ompletion of e ompletion of e MS 3.3.59 C MS 3.3.61 C S50% of the to anent lining for manent lining for	port and perma port and perma provide and perma perma provide and perma	nent lining for 77. nent lining for 80 ort and permaner ort and permaner ort and permaner ort and permaner ort and permaner cavation, support cavation, support cavation, support sured on plan) of t otal length (measu	5% of the total I % of the total I t lining for 82 tt lining for 85 tt lining for 87 tt lining for 90 nt lining for 90 nt lining for 92 and permane and permane he S f the he S red on plan) red on plan)

MS 3.3.101 Completion of excavation, s	support and permanent lining for 62.5% of the to	tai length (measured (	0		31-Aug-16	100%	Completion of	of excavation, suppo	ort and per	manent lining	) for 62.5%	of the total length (meas	sured on p	lan) of th
MS 3.3.102 Completion of excavation, s	support and permanent lining for 65% of the tota	l length (measured or	0		31-Aug-16	100%	Completion of	of excavation, suppo	ort and per	manent lining	for 65% o	of the total length (measu	red on pla	n) of the
MS 3.3.101 Completion of excavation, s MS 3.3.102 Completion of excavation, s MS 3.3.103 Completion of excavation, s	support and permanent lining for 67.5% of the to	tal length (measured (	0		31-Aug-16	100%	Completion of	of excavation, suppo	ort and per	manent lining	for 67.5%	of the total length (meas	sured on p	lan) of th
					<u> </u>					•	Date	Revision	Checked	Approved
Page 1 of 11	Planned Bar	TMCLK - Nort	hern (	Connection	Sub-Sea	lunnel	Section				12-Feb-14	TMCLK/DBJGEN/PRG/98507	WYu	SPo
											08-Apr-14	TMCLK/DBJGEN/PRG/98507 Rev.B		WYu
	Planned Bar - Critical							香寶	吉 🖌		28-Aug-14	TMCLK/DBJGEN/PRG/98507 Rev.C		WYu
Project ID: TMCLK DWPF 16W25	Planned Milestone	Deta	iled W	orks Progr	amme (Re	ev. F)			品		30-Od-15	TMCLK/DBJGEN/PRG/98507 Rev.F	WYu	
				0	``	,		Draga	ges 🛛 🦲 🤇	BOUYGUES TRAVAUX PUBLICS				
Data Date: 01-Jan-17	Progress bar							HongK	<u> </u>					
		Thi	ree Mo	onths Rollir	ng Progran	nme		A member of the Bouygues Construction	5 1					
	<ul> <li>Progress Milestone</li> </ul>				0 0			Dragages - Bouygues Joint V	enture 寶嘉 - 布·	依格聯營				
			Prog	ress as of	01-Jan-17									
				1000 40 01										

	Orig	DWPF	DWPF	%			
	Dur	Start	Finish	Comp	Oct	2016 Nov Dec	2017 Jan Feb Mar Apr May
MS 3.3.104 Completion of excavation, support and permanent lining for 70% of the total length (measured or	0		30-Sep-16	0%	-		oport and permanent lining for 70% of the total length (measured on
MS 3.3.105 Completion of excavation, support and permanent lining for 72.5% of the total length (measured of	0		30-Sep-16	0%	MS 3.3.105	Completion of excavation, su	oport and permanent lining for 72.5% of the total length (measured o
MS 3.3.106 Completion of excavation, support and permanent lining for 75% of the total length (measured or			30-Sep-16	0%	MS 3.3.106	Completion of excavation, su	pport and permanent lining for 75% of the total length (measured on
MS 3.3.107 Completion of excavation, support and permanent lining for 77.5% of the total length (measured of the second s			30-Sep-16	0%			pport and permanent lining for 77.5% of the total length (measured c
MS 3.3.108 Completion of excavation, support and permanent lining for 80% of the total length (measured or			31-Oct-16	0%			excavation, support and permanent lining for 80% of the total length
MS 3.3.109 Completion of excavation, support and permanent lining for 82.5% of the total length (measured on MS 3.3.110Completion of excavation, support and permanent lining for 85% of the total length (measured on MS 3.3.110Completion of excavation, support and permanent lining for 85% of the total length (measured on MS 3.3.110Completion of excavation).	0		31-Oct-16 31-Oct-16	0%		i '	excavation, support and permanent lining for 82.5% of the total leng excavation, support and permanent lining for 85% of the total length (
MS 3.3.111 Completion of excavation, support and permanent lining for 87.5% of the total length (measured of MS 3.3.111 Completion of excavation, support and permanent lining for 87.5% of the total length (measured of MS 3.3.111 Completion of excavation) and permanent lining for 87.5% of the total length (measured of MS 3.3.111 Completion of excavation) and permanent lining for 87.5% of the total length (measured of MS 3.3.111 Completion of excavation) and permanent lining for 87.5% of the total length (measured of MS 3.3.111 Completion) and permanent lining for 87.5% of the total length (measured of MS 3.3.111 Completion) and permanent lining for 87.5% of the total length (measured of MS 3.3.111 Completion) and permanent lining for 87.5% of the total length (measured of MS 3.3.111 Completion) and permanent lining for 87.5% of the total length (measured of MS 3.3.111 Completion) and permanent lining for 87.5% of the total length (measured of MS 3.3.111 Completion) and permanent lining for 87.5% of the total length (measured of MS 3.3.111 Completion) and permanent lining for 87.5% of the total length (measured of MS 3.3.111 Completion) and permanent lining for 87.5% of the total length (measured of MS 3.3.111 Completion) and permanent lining for 87.5% of the total length (measured of MS 3.3.111 Completion) and permanent lining for 87.5% of the total length (measured of MS 3.3.111 Completion) and permanent lining for 87.5% of the total length (measured of MS 3.3.111 Completion) and permanent lining for 87.5% of the total length (measured of MS 3.3.111 Completion) and permanent lining for 87.5% of the total length (measured of MS 3.3.111 Completion) and permanent lining for 87.5% of the total length (measured of MS 3.3.111 Completion) and permanent lining for 87.5% of the total length (measured of MS 3.3.111 Completion) and permanent length (meas			31-Oct-16	0%			excavation, support and permanent lining for 87.5% of the total lengt
MS 3.3.112 Completion of excavation, support and permanent lining for 90% of the total length (measured on			30-Nov-16	0%	_		Completion of excavation, support and permanent lining for 90% of the
MS 3.3.113 Completion of excavation, support and permanent lining for 92.5% of the total length (measured of	0		30-Nov-16	0%			Completion of excavation, support and permanent lining for 92.5% of
MS 3.3.114 Completion of excavation, support and permanent lining for 95% of the total length (measured on	0		30-Nov-16	0%	-		Completion of excavation, support and permanent lining for 95% of the
MS 3.3.115 Completion of excavation, support and permanent lining for 97.5% of the total length (measured of	0		30-Nov-16	0%		♦ MS 3.3.115	Completion of excavation, support and permanent lining for 97.5% of
MS 3.3.116 Completion of excavation, support and permanent lining for 100% of the total length (measured o	0		30-Nov-16	0%		♦ MS 3.3.116	Completion of excavation, support and permanent lining for 100% of
MS 3.3.117 Complete tunnel internal structures for 25% of total length (measured on plan) of the Northbound	0		31-Oct-16	0%	•	MS 3.3.117 Complete tunr	el internal structures for 25% of total length (measured on plan) of th
MS 3.3.118 Complete tunnel internal structures for 50% of total length (measured on plan) of the Northbound	0		31-Jan-17	0%			MS 3.3.118 Complete tunnel internal structures for 5
MS 3.3.121 Complete tunnel internal structures for 25% of total length (measured on plan) of the Southbound			31-Oct-16	0%	•	MS 3.3.121 Complete tunr	el internal structures for 25% of total length (measured on plan) of th
MS 3.3.122 Complete tunnel internal structures for 50% of total length (measured on plan) of the Southbound	0		31-Jan-17	0%			MS 3.3.122 Complete turinel internal structures for 5
Cross Passages for TBM Tunnel			00 Nev 10	00/			
MS 3.3.1 Complete 50% of ground treatment for excavation of all Type 1 Cross Passages(Percentage to be ca			30-Nov-16	0%			mplete 50% of ground treatment for excavation of all Type 1 Cross Pa
MS 3.3.3 Complete 50% of ground treatment for excavation of all Type 2 Cross Passages(Percentage to be co			30-Nov-16	0%	_	MS 3.3.3 Co	mplete 50% of ground treatment for excavation of all Type 2 Cross Pa
MS 3.3.5 Complete 50% of excavation and support for all Type 1 Cross Passages(Percentage to be certified f			31-Dec-16 31-Dec-16	0%	-		MS 3.3.5 Complete 50% pf excavation and support for all Type 1 C
MS 3.3.7 Complete 50% of excavation and support for all Type 2 Cross Passages(Percentage to be certified f MS 3.3.9 Complete 50% of permanent lining and internal structures for all Type 1 Cross Passages(Percentage			31-Jan-17	0%	-		<ul> <li>MS 3.3.7 Complete 50% bf excavation and support for all Type 2 C</li> <li>MS 3.3.9 Complete 50% bf permanent lining and in</li> </ul>
MS 3.3.11 Complete 50% of permanent lining and internal structures for all Type 2 Cross Passages(Percentag			28-Feb-17	0%	-		<ul> <li>MS 3.3.9 Complete 50 % of permanent iming and in</li> <li>MS 3.3.11 Complete 50% of permanent</li> </ul>
Cut-and-cover Tunnels at Southern Landfalls	Ĵ		2010011	0 //0			
MS 4.1.1 Complete 10% of total length (measured on plan) of temporary retaining walls for excavation of Cut-	0		31-Oct-15	0%			
MS 4.1.2 Complete 20% of total length (measured on plan) of temporary retaining walls for excavation of cut-			31-Oct-15	0%	-		
MS 4.1.3 Complete 30% of total length (measured on plan) of temporary retaining walls for excavation of Cut-			30-Nov-15	0%			
MS 4.1.4 Complete 40% of total length (measured on plan) of temporary retaining walls for excavation of Cut-			30-Nov-15	0%			
MS 4.1.5 Complete 50% of total length (measured on plan) of temporary retaining walls for excavation of Cut-			31-Dec-15	0%	1		
MS 4.1.6 Complete 60% of total length (measured on plan) of temporary retaining walls for excavation of Cut-	0		31-Dec-15	0%			
MS 4.1.7 Complete 70% of total length (measured on plan) of temporary retaining walls for excavation of Cut-	0		30-Jan-16	0%	l-cover tu		
MS 4.1.8 Complete 80% of total length (measured on plan) of temporary retaining walls for excavation of Cut-	0		30-Jan-16	0%	l-cover tu		
MS 4.1.9 Complete 90% of total length (measured on plan) of temporary retaining walls for excavation of Cut-	0		29-Feb-16	0%	tion of Cut-and	l-cover tu	
MS 4.1.10 Complete 100% of total length (measured on plan) of temporary retaining walls for excavation of C	0		31-Mar-16	0%	) walls for exca	vation of Cut-and-cover	
MS 4.1.11	0		30-Jun-16	0%			
MS 4.1.12 Complete 40% of excavation for Cut-and-cover tunnel	0		31-Aug-16	0%	omplete 40%	of excavation for Cut-and-co	/er tunnel
MS 4.1.13 Complete 60% of excavation for Cut-and-cover tunnel	0		31-Oct-16	0%	•	MS 4.1.13 Complete 60%	of excavation for Cut-and-cover tunnel
MS 4.1.14 Complete 80% of excavation for Cut-and-cover tunnel	0		31-Dec-16	0%			MS 4.1.14 Complete 80% of excavation for Cut-and-cover tunnel
MS 4.1.15 Complete 100% of excavation for Cut-and-cover tunnel	0		28-Feb-17	0%	_		MS 4.1.15 Complete 100% of excavati
MS 4.1.16 Complete permanent tunnel structure for 10% of the total length (measured on plan) of Cut-and-co			30-Jul-16	0%	-	i	ngth (measured on plan) of Cut-and-cover Tunnel
MS 4.1.17 Complete permanent tunnel structure for 20% of the total length (measured on plan) of Cut-and-co			31-Aug-16	0%		1	% of the total length (measured on plan) of Cut-and-cover Tunnel
MS 4.1.18 Complete permanent tunnel structure for 30% of the total length (measured on plan) of Cut-and-co			30-Sep-16	0%	-		ructure for 30% of the total length (measured on plan) of Cut-and-co
MS 4.1.19 Complete permanent tunnel structure for 40% of the total length (measured on plan) of Cut-and-co			30-Sep-16	0%			ructure for 40% of the total length (measured on plan) of Cut-and-co
MS 4.1.20 Complete permanent tunnel structure for 50% of the total length (measured on plan) of Cut-and-co			31-Oct-16	0%	-	MS 4.1.20 Complete perm	anent tunnel structure for 50% of the total length (measured on plan)
MS 4.1.21 Complete permanent tunnel structure for 60% of the total length (measured on plan) of Cut-and-co			31-Jan-17	0%	_		MS 4.1.21 Complete permanent tunnel structure for
MS 4.1.22 Complete permanent tunnel structure for 70% of the total length (measured on plan) of Cut-and-co			28-Feb-17	0%	-		MS 4.1.22 Complete permanent tunne
MS 4.1.23 Complete permanent tunnel structure for 80% of the total length (measured on plan) of Cut-and-co	0		28-Feb-17 31-Dec-15	0%	-		MS 4.1.23 Complete permanent tunne
MS 4.1.26 Complete excavation for 50% of total length (measured on plan) of all Cross Passages MS 4.1.27 Complete excavation for 100% of total length (measured on plan) of all Cross Passages	0		31-Dec-15 31-Mar-16		ross Passages		
MS 4.1.29 Complete excavation of 700% of the total length (measured on plan) of cut-and-cover Tunnel	0		31-Dec-16	0%	IUSS F assayes		MS 4.1.29 Complete pavement for 50% of the total length (measur
Cut-and-cover Tunnel at Northern Landfall	Ĵ		01 200 10	0,0			
MS 4.2.22 Complete tunnel internal structure for 50% of NB Northern Landfall TBM Tunnel	0		31-Aug-16	0%	omplete tunne	l internal structure for 50% c	f NB Northern Landfall TBM Tunnel
MS 4.2.23 Complete tunnel internal structure for 100% of NB Northern Landfall TBM Tunnel	0		30-Sep-16	0%	-		ure for 100% of NB Northern Landfall TBM Tunnel
MS 4.2.24 Complete tunnel internal structure for 50% of SB Northern Landfall TBM Tunnel	0		31-Oct-16	0%	•	MS 4.2.24 Complete tunn	l internal structure for 50% of SB Northern Landfall TBM Tunnel
MS 4.2.25 Complete tunnel internal structure for 100% of SB Northern Landfall TBM Tunnel	0		30-Nov-16	0%		MS 4.2.25 C	omplete tunnel internal structure for 100% of SB Northern Landfall T
MS 4.2.28 Complete 75% of permanent lining and internal structures for all Northern Landfall Cross Passage	0		30-Sep-16	100%	MS 4.2.28 C	omplete 75% of permanent	ning and internal structures for all Northern Landfall Cross Passage
MS 4.2.29 Complete 100% of permanent lining and internal structures for all Northern Landfall Cross Passag	0		31-Oct-16	0%	•	MS 4.2.29 Complete 100%	of permanent lining and internal structures for all Northern Landfall
MS 4.2.30 Complete Permanent tunnel structure for 25% of Cut and Cover Tunnel	0		31-Aug-16	0%	omplete Perm	anent tunnel structure for 25	% of Cut and Cover Tunnel
MS 4.2.31 Complete Permanent tunnel structure for 50% of Cut and Cover Tunnel	0						
	0		30-Sep-16	0%	MS 4.2.31 O	omplete Permanent tunnel s	ructure for 50% of Cut and Cover Tu nnel
MS 4.2.32 Complete Permanent tunnel structure for 75% of Cut and Cover Tunnel	-		30-Sep-16 30-Nov-16	0% 0%	MS 4.2.31 C		ructure for 50% of Cut and Cover Tunnel omplete Permanent tunnel structure for 75% of Cut and Cover Tunne
MS 4.2.32 Complete Permanent tunnel structure for 75% of Cut and Cover Tunnel MS 4.2.34 Complete Permanent junction structure at interface between Cut-and-cover and TBM Tunnel	0			0%	_	MS 4.2.32 C	
MS 4.2.34 Complete Permanent junction structure at interface between Cut-and-cover and TBM Tunnel Approach Ramp Structures to Cut-and-cover Tunnel at Southern Landfall	0		30-Nov-16 30-Jul-16	0% 0%	_	MS 4.2.32 C	omplete Permanent tunnel structure for 75% of Cut and Cover Tunne
MS 4.2.34 Complete Permanent junction structure at interface between Cut-and-cover and TBM Tunnel Approach Ramp Structures to Cut-and-cover Tunnel at Southern Landfall MS 5.1.2 Complete 40% of excavation for approach ramp structures	0		30-Nov-16 30-Jul-16 31-Mar-16	0% 0% 0%	_	MS 4.2.32 C	omplete Permanent tunnel structure for 75% of Cut and Cover Tunne
MS 4.2.34 Complete Permanent junction structure at interface between Cut-and-cover and TBM Tunnel Approach Ramp Structures to Cut-and-cover Tunnel at Southern Landfall MS 5.1.2 Complete 40% of excavation for approach ramp structures MS 5.1.3 Complete 60% of excavation for approach ramp structures	0 0 0		30-Nov-16 30-Jul-16 31-Mar-16 31-Mar-16	0% 0% 0% 0%	_	MS 4.2.32 C	omplete Permanent tunnel structure for 75% of Cut and Cover Tunne
MS 4.2.34 Complete Permanent junction structure at interface between Cut-and-cover and TBM Tunnel Approach Ramp Structures to Cut-and-cover Tunnel at Southern Landfall MS 5.1.2 Complete 40% of excavation for approach ramp structures MS 5.1.3 Complete 60% of excavation for approach ramp structures MS 5.1.4 Complete 80% of excavation for approach ramp structures	0 0 0 0 0		30-Nov-16 30-Jul-16 31-Mar-16 31-Mar-16 30-Apr-16	0% 0% 0% 0% 0%	_	MS 4.2.32 C	omplete Permanent tunnel structure for 75% of Cut and Cover Tunne
MS 4.2.34 Complete Permanent junction structure at interface between Cut-and-cover and TBM Tunnel         Approach Ramp Structures to Cut-and-cover Tunnel at Southern Landfall         MS 5.1.2 Complete 40% of excavation for approach ramp structures         MS 5.1.3 Complete 60% of excavation for approach ramp structures         MS 5.1.4 Complete 80% of excavation for approach ramp structures         MS 5.1.5 Complete 100% of excavation for approach ramp structures	0 0 0 0 0 0 0 0		30-Nov-16 30-Jul-16 31-Mar-16 31-Mar-16 30-Apr-16 30-Apr-16	0% 0% 0% 0% 0%	_	MS 4.2.32 C	omplete Permanent tunnel structure for 75% of Cut and Cover Tunne
MS 4.2.34 Complete Permanent junction structure at interface between Cut-and-cover and TBM Tunnel         Approach Ramp Structures to Cut-and-cover Tunnel at Southern Landfall         MS 5.1.2 Complete 40% of excavation for approach ramp structures         MS 5.1.3 Complete 60% of excavation for approach ramp structures         MS 5.1.4 Complete 80% of excavation for approach ramp structures         MS 5.1.5 Complete 100% of excavation for approach ramp structures         MS 5.1.6 Complete retaining wall foundation for 10% of the total length (measured on plan) of approach ramp	0 0 0 0 0 0 0 0 0		30-Nov-16 30-Jul-16 31-Mar-16 31-Mar-16 30-Apr-16 30-Apr-16 31-Oct-15	0% 0% 0% 0% 0% 0%	_	MS 4.2.32 C	omplete Permanent tunnel structure for 75% of Cut and Cover Tunne
MS 4.2.34 Complete Permanent junction structure at interface between Cut-and-cover and TBM Tunnel         Approach Ramp Structures to Cut-and-cover Tunnel at Southern Landfall         MS 5.1.2 Complete 40% of excavation for approach ramp structures         MS 5.1.3 Complete 60% of excavation for approach ramp structures         MS 5.1.4 Complete 80% of excavation for approach ramp structures         MS 5.1.5 Complete 100% of excavation for approach ramp structures         MS 5.1.6 Complete retaining wall foundation for 10% of the total length (measured on plan) of approach ramp         MS 5.1.7 Complete retaining wall foundation for 20% of the total length (measured on plan) of approach ramp	0 0 0 0 0 0 0 0 0 0 0		30-Nov-16 30-Jul-16 31-Mar-16 31-Mar-16 30-Apr-16 30-Apr-16 31-Oct-15 30-Nov-15	0% 0% 0% 0% 0% 0% 0%	_	MS 4.2.32 C	omplete Permanent tunnel structure for 75% of Cut and Cover Tunne
MS 4.2.34 Complete Permanent junction structure at interface between Cut-and-cover and TBM Tunnel         Approach Ramp Structures to Cut-and-cover Tunnel at Southern Landfall         MS 5.1.2 Complete 40% of excavation for approach ramp structures         MS 5.1.3 Complete 60% of excavation for approach ramp structures         MS 5.1.4 Complete 80% of excavation for approach ramp structures         MS 5.1.5 Complete 100% of excavation for approach ramp structures         MS 5.1.6 Complete retaining wall foundation for 10% of the total length (measured on plan) of approach ramp         MS 5.1.7 Complete retaining wall foundation for 20% of the total length (measured on plan) of approach ramp         MS 5.1.8 Complete retaining wall foundation for 30% of the total length (measured on plan) of approach ramp	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		30-Nov-16 30-Jul-16 31-Mar-16 31-Mar-16 30-Apr-16 30-Apr-16 31-Oct-15 30-Nov-15 30-Nov-15	0% 0% 0% 0% 0% 0% 0%	_	MS 4.2.32 C	omplete Permanent tunnel structure for 75% of Cut and Cover Tunn
MS 4.2.34 Complete Permanent junction structure at interface between Cut-and-cover and TBM Tunnel         Approach Ramp Structures to Cut-and-cover Tunnel at Southern Landfall         MS 5.1.2 Complete 40% of excavation for approach ramp structures         MS 5.1.3 Complete 60% of excavation for approach ramp structures         MS 5.1.4 Complete 80% of excavation for approach ramp structures         MS 5.1.5 Complete 100% of excavation for approach ramp structures         MS 5.1.6 Complete retaining wall foundation for 10% of the total length (measured on plan) of approach ramp         MS 5.1.7 Complete retaining wall foundation for 20% of the total length (measured on plan) of approach ramp         MS 5.1.8 Complete retaining wall foundation for 30% of the total length (measured on plan) of approach ramp         MS 5.1.9 Complete retaining wall foundation for 40% of the total length (measured on plan) of approach ramp	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		30-Nov-16 30-Jul-16 31-Mar-16 31-Mar-16 30-Apr-16 30-Apr-16 31-Oct-15 30-Nov-15 30-Nov-15 31-Dec-15	0% 0% 0% 0% 0% 0% 0% 0%	_	MS 4.2.32 C	omplete Permanent tunnel structure for 75% of Cut and Cover Tunne
MS 4.2.34 Complete Permanent junction structure at interface between Cut-and-cover and TBM Tunnel         Approach Ramp Structures to Cut-and-cover Tunnel at Southern Landfall         MS 5.1.2 Complete 40% of excavation for approach ramp structures         MS 5.1.3 Complete 60% of excavation for approach ramp structures         MS 5.1.4 Complete 80% of excavation for approach ramp structures         MS 5.1.5 Complete 100% of excavation for approach ramp structures         MS 5.1.6 Complete retaining wall foundation for 10% of the total length (measured on plan) of approach ramp         MS 5.1.7 Complete retaining wall foundation for 30% of the total length (measured on plan) of approach ramp         MS 5.1.9 Complete retaining wall foundation for 40% of the total length (measured on plan) of approach ramp         MS 5.1.9 Complete retaining wall foundation for 50% of the total length (measured on plan) of approach ramp         MS 5.1.10 Complete retaining wall foundation for 50% of the total length (measured on plan) of approach ramp	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		30-Nov-16 30-Jul-16 31-Mar-16 31-Mar-16 30-Apr-16 30-Apr-16 31-Oct-15 30-Nov-15 30-Nov-15 31-Dec-15 31-Dec-15	0% 0% 0% 0% 0% 0% 0% 0%	anent junction	MS 4.2.32 C	omplete Permanent tunnel structure for 75% of Cut and Cover Tunne
MS 4.2.34 Complete Permanent junction structure at interface between Cut-and-cover and TBM Tunnel         Approach Ramp Structures to Cut-and-cover Tunnel at Southern Landfall         MS 5.1.2 Complete 40% of excavation for approach ramp structures         MS 5.1.3 Complete 60% of excavation for approach ramp structures         MS 5.1.4 Complete 80% of excavation for approach ramp structures         MS 5.1.5 Complete 100% of excavation for approach ramp structures         MS 5.1.6 Complete retaining wall foundation for 10% of the total length (measured on plan) of approach ramp         MS 5.1.7 Complete retaining wall foundation for 20% of the total length (measured on plan) of approach ramp         MS 5.1.8 Complete retaining wall foundation for 30% of the total length (measured on plan) of approach ramp         MS 5.1.9 Complete retaining wall foundation for 40% of the total length (measured on plan) of approach ramp	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		30-Nov-16 30-Jul-16 31-Mar-16 31-Mar-16 30-Apr-16 30-Apr-16 31-Oct-15 30-Nov-15 30-Nov-15 31-Dec-15	0%           0%	anent junction	MS 4.2.32 C	omplete Permanent tunnel structure for 75% of Cut and Cover Tunne
MS 4.2.34 Complete Permanent junction structure at interface between Cut-and-cover and TBM Tunnel Approach Ramp Structures to Cut-and-cover Tunnel at Southern Landfall MS 5.1.2 Complete 40% of excavation for approach ramp structures MS 5.1.3 Complete 60% of excavation for approach ramp structures MS 5.1.4 Complete 80% of excavation for approach ramp structures MS 5.1.5 Complete 100% of excavation for approach ramp structures MS 5.1.6 Complete retaining wall foundation for 10% of the total length (measured on plan) of approach ramp MS 5.1.7 Complete retaining wall foundation for 30% of the total length (measured on plan) of approach ramp MS 5.1.9 Complete retaining wall foundation for 30% of the total length (measured on plan) of approach ramp MS 5.1.9 Complete retaining wall foundation for 50% of the total length (measured on plan) of approach ramp MS 5.1.10 Complete retaining wall foundation for 50% of the total length (measured on plan) of approach ramp MS 5.1.11 Complete retaining wall foundation for 60% of the total length (measured on plan) of approach ramp MS 5.1.11 Complete retaining wall foundation for 60% of the total length (measured on plan) of approach ramp MS 5.1.11 Complete retaining wall foundation for 60% of the total length (measured on plan) of approach ramp MS 5.1.11 Complete retaining wall foundation for 60% of the total length (measured on plan) of approach ramp MS 5.1.11 Complete retaining wall foundation for 60% of the total length (measured on plan) of approach ramp MS 5.1.11 Complete retaining wall foundation for 60% of the total length (measured on plan) of approach ramp MS 5.1.11 Complete retaining wall foundation for 60% of the total length (measured on plan) of approach ramp MS 5.1.11 Complete retaining wall foundation for 60% of the total length (measured on plan) of approach ramp MS 5.1.11 Complete retaining wall foundation for 60% of the total length (measured on plan) of approach ramp MS 5.1.11 Complete retaining wall foundation for 60% of the total length (m	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		30-Nov-16 30-Jul-16 31-Mar-16 30-Apr-16 30-Apr-16 31-Oct-15 30-Nov-15 30-Nov-15 31-Dec-15 31-Dec-15 30-Jan-16	0%           0%	anent junction	♦ MS 4.2.32 C	omplete Permanent tunnel structure for 75% of Cut and Cover Tunne
MS 4.2.34 Complete Permanent junction structure at interface between Cut-and-cover and TBM Tunnel         Approach Ramp Structures to Cut-and-cover Tunnel at Southern Landfall         MS 5.1.2 Complete 40% of excavation for approach ramp structures         MS 5.1.3 Complete 60% of excavation for approach ramp structures         MS 5.1.4 Complete 80% of excavation for approach ramp structures         MS 5.1.5 Complete 100% of excavation for approach ramp structures         MS 5.1.6 Complete retaining wall foundation for 10% of the total length (measured on plan) of approach ramp         MS 5.1.7 Complete retaining wall foundation for 30% of the total length (measured on plan) of approach ramp         MS 5.1.8 Complete retaining wall foundation for 30% of the total length (measured on plan) of approach ramp         MS 5.1.10 Complete retaining wall foundation for 50% of the total length (measured on plan) of approach ramp         MS 5.1.11 Complete retaining wall foundation for 50% of the total length (measured on plan) of approach ramp         MS 5.1.11 Complete retaining wall foundation for 60% of the total length (measured on plan) of approach ramp         MS 5.1.11 Complete retaining wall foundation for 70% of the total length (measured on plan) of approach ramp	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		30-Nov-16 30-Jul-16 31-Mar-16 31-Mar-16 30-Apr-16 30-Apr-16 31-Oct-15 30-Nov-15 30-Nov-15 31-Dec-15 31-Dec-15 30-Jan-16 30-Jan-16	0%           0%	anent junction	MS 4.2.32 C structure at interface betwee	omplete Permanent tunnel structure for 75% of Cut and Cover Tunne
MS 4.2.34 Complete Permanent junction structure at interface between Cut-and-cover and TBM Tunnel Approach Ramp Structures to Cut-and-cover Tunnel at Southern Landfall MS 5.1.2 Complete 40% of excavation for approach ramp structures MS 5.1.3 Complete 60% of excavation for approach ramp structures MS 5.1.4 Complete 80% of excavation for approach ramp structures MS 5.1.5 Complete 100% of excavation for approach ramp structures MS 5.1.6 Complete retaining wall foundation for 10% of the total length (measured on plan) of approach ramp MS 5.1.8 Complete retaining wall foundation for 30% of the total length (measured on plan) of approach ramp MS 5.1.9 Complete retaining wall foundation for 50% of the total length (measured on plan) of approach ramp MS 5.1.10 Complete retaining wall foundation for 50% of the total length (measured on plan) of approach ramp MS 5.1.11 Complete retaining wall foundation for 60% of the total length (measured on plan) of approach ramp MS 5.1.12 Complete retaining wall foundation for 60% of the total length (measured on plan) of approach ramp MS 5.1.12 Complete retaining wall foundation for 70% of the total length (measured on plan) of approach ramp MS 5.1.13 Complete retaining wall foundation for 70% of the total length (measured on plan) of approach ramp MS 5.1.13 Complete retaining wall foundation for 80% of the total length (measured on plan) of approach ramp MS 5.1.13 Complete retaining wall foundation for 70% of the total length (measured on plan) of approach ramp MS 5.1.13 Complete retaining wall foundation for 80% of the total length (measured on plan) of approach ramp MS 5.1.13 Complete retaining wall foundation for 80% of the total length (measured on plan) of approach ramp MS 5.1.13 Complete retaining wall foundation for 80% of the total length (measured on plan) of approach ramp MS 5.1.13 Complete retaining wall foundation for 80% of the total length (measured on plan) of approach ramp MS 5.1.13 Complete retaining wall foundation for 80% of the total length (	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		30-Nov-16 30-Jul-16 31-Mar-16 30-Apr-16 30-Apr-16 31-Oct-15 30-Nov-15 30-Nov-15 31-Dec-15 31-Dec-15 30-Jan-16 30-Jan-16 29-Feb-16	0%           0%	anent junction tructure tructure proach ramp	MS 4.2.32 C structure at interface betwee	omplete Permanent tunnel structure for 75% of Cut and Cover Tunne
MS 4.2.34 Complete Permanent junction structure at interface between Cut-and-cover and TBM Tunnel Approach Ramp Structures to Cut-and-cover Tunnel at Southern Landfall MS 5.1.2 Complete 40% of excavation for approach ramp structures MS 5.1.3 Complete 60% of excavation for approach ramp structures MS 5.1.4 Complete 80% of excavation for approach ramp structures MS 5.1.5 Complete 100% of excavation for approach ramp structures MS 5.1.6 Complete retaining wall foundation for 10% of the total length (measured on plan) of approach ramp MS 5.1.7 Complete retaining wall foundation for 30% of the total length (measured on plan) of approach ramp MS 5.1.9 Complete retaining wall foundation for 50% of the total length (measured on plan) of approach ramp MS 5.1.10 Complete retaining wall foundation for 50% of the total length (measured on plan) of approach ramp MS 5.1.11 Complete retaining wall foundation for 60% of the total length (measured on plan) of approach ramp MS 5.1.11 Complete retaining wall foundation for 50% of the total length (measured on plan) of approach ramp MS 5.1.11 Complete retaining wall foundation for 60% of the total length (measured on plan) of approach ramp MS 5.1.13 Complete retaining wall foundation for 70% of the total length (measured on plan) of approach ramp MS 5.1.13 Complete retaining wall foundation for 80% of the total length (measured on plan) of approach ramp MS 5.1.14 Complete retaining wall foundation for 70% of the total length (measured on plan) of approach ramp MS 5.1.14 Complete retaining wall foundation for 80% of the total length (measured on plan) of approach ramp MS 5.1.14 Complete retaining wall foundation for 80% of the total length (measured on plan) of approach ramp MS 5.1.14 Complete retaining wall foundation for 90% of the total length (measured on plan) of approach ramp MS 5.1.14 Complete retaining wall foundation for 90% of the total length (measured on plan) of approach ramp MS 5.1.14 Complete retaining wall foundation for 90% of the total length (	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		30-Nov-16 30-Jul-16 31-Mar-16 31-Mar-16 30-Apr-16 30-Apr-16 31-Oct-15 30-Nov-15 30-Nov-15 31-Dec-15 31-Dec-15 30-Jan-16 29-Feb-16 29-Feb-16	0%           0%	anent junction tructure tructure proach ramp	MS 4.2.32 C structure at interface betwee tructure tructure tructure	omplete Permanent tunnel structure for 75% of Cut and Cover Tunne
MS 4.2.34 Complete Permanent junction structure at interface between Cut-and-cover and TBM Tunnel Approach Ramp Structures to Cut-and-cover Tunnel at Southern Landfall MS 5.1.2 Complete 40% of excavation for approach ramp structures MS 5.1.3 Complete 60% of excavation for approach ramp structures MS 5.1.4 Complete 80% of excavation for approach ramp structures MS 5.1.5 Complete 100% of excavation for approach ramp structures MS 5.1.6 Complete retaining wall foundation for 10% of the total length (measured on plan) of approach ramp MS 5.1.7 Complete retaining wall foundation for 20% of the total length (measured on plan) of approach ramp MS 5.1.8 Complete retaining wall foundation for 30% of the total length (measured on plan) of approach ramp MS 5.1.9 Complete retaining wall foundation for 50% of the total length (measured on plan) of approach ramp MS 5.1.10 Complete retaining wall foundation for 50% of the total length (measured on plan) of approach ramp MS 5.1.12 Complete retaining wall foundation for 60% of the total length (measured on plan) of approach ramp MS 5.1.13 Complete retaining wall foundation for 70% of the total length (measured on plan) of approach ramp MS 5.1.13 Complete retaining wall foundation for 70% of the total length (measured on plan) of approach ramp MS 5.1.13 Complete retaining wall foundation for 70% of the total length (measured on plan) of approach ramp MS 5.1.14 Complete retaining wall foundation for 80% of the total length (measured on plan) of approach ramp MS 5.1.15 Complete retaining wall foundation for 90% of the total length (measured on plan) of approach ramp MS 5.1.15 Complete retaining wall foundation for 90% of the total length (measured on plan) of approach ramp MS 5.1.15 Complete retaining wall foundation for 100% of the total length (measured on plan) of approach ramp MS 5.1.15 Complete retaining wall foundation for 100% of the total length (measured on plan) of approach ramp MS 5.1.15 Complete retaining wall foundation for 100% of the total length	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		30-Nov-16 30-Jul-16 31-Mar-16 31-Mar-16 30-Apr-16 30-Apr-16 31-Oct-15 30-Nov-15 30-Nov-15 31-Dec-15 31-Dec-15 30-Jan-16 29-Feb-16 29-Feb-16	0%           0%	anent junction tructure structure proach ramp s d on plan) of a	MS 4.2.32 C structure at interface betwee tructure tructure tructure	omplete Permanent tunnel structure for 75% of Cut and Cover Tunne n Cut-and-cover and TBM Tunnel
MS 4.2.34 Complete Permanent junction structure at interface between Cut-and-cover and TBM Tunnel Approach Ramp Structures to Cut-and-cover Tunnel at Southern Landfall MS 5.1.2 Complete 40% of excavation for approach ramp structures MS 5.1.3 Complete 60% of excavation for approach ramp structures MS 5.1.4 Complete 80% of excavation for approach ramp structures MS 5.1.5 Complete 100% of excavation for approach ramp structures MS 5.1.6 Complete retaining wall foundation for 10% of the total length (measured on plan) of approach ramp MS 5.1.7 Complete retaining wall foundation for 20% of the total length (measured on plan) of approach ramp MS 5.1.8 Complete retaining wall foundation for 30% of the total length (measured on plan) of approach ramp MS 5.1.9 Complete retaining wall foundation for 50% of the total length (measured on plan) of approach ramp MS 5.1.10 Complete retaining wall foundation for 50% of the total length (measured on plan) of approach ramp MS 5.1.12 Complete retaining wall foundation for 60% of the total length (measured on plan) of approach ramp MS 5.1.12 Complete retaining wall foundation for 70% of the total length (measured on plan) of approach ramp MS 5.1.13 Complete retaining wall foundation for 70% of the total length (measured on plan) of approach ramp MS 5.1.14 Complete retaining wall foundation for 70% of the total length (measured on plan) of approach ramp MS 5.1.15 Complete retaining wall foundation for 70% of the total length (measured on plan) of approach ramp MS 5.1.15 Complete retaining wall foundation for 70% of the total length (measured on plan) of approach ramp MS 5.1.15 Complete retaining wall foundation for 100% of the total length (measured on plan) of approach ramp MS 5.1.15 Complete retaining wall foundation for 100% of the total length (measured on plan) of approach ramp MS 5.1.15 Complete retaining wall foundation for 100% of the total length (measured on plan) of approach ramp MS 5.1.15 Complete retaining wall foundation for 100% of the total lengt	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		30-Nov-16 30-Jul-16 31-Mar-16 31-Mar-16 30-Apr-16 30-Apr-16 31-Oct-15 30-Nov-15 30-Nov-15 31-Dec-15 31-Dec-15 30-Jan-16 29-Feb-16 29-Feb-16 31-Mar-16	0%           0%	tructure tructure tructure proach ramp s d on plan) of a	MS 4.2.32 C structure at interface betwee tructure tructure pproach ramp structure	omplete Permanent tunnel structure for 75% of Cut and Cover Tunne n Cut-and-cover and TBM Tunnel
MS 4.2.34 Complete Permanent junction structure at interface between Cut-and-cover and TBM Tunnel         Approach Ramp Structures to Cut-and-cover Tunnel at Southern Landfall         MS 5.1.2 Complete 40% of excavation for approach ramp structures         MS 5.1.3 Complete 60% of excavation for approach ramp structures         MS 5.1.4 Complete 80% of excavation for approach ramp structures         MS 5.1.5 Complete 100% of excavation for approach ramp structures         MS 5.1.6 Complete retaining wall foundation for 10% of the total length (measured on plan) of approach ramp         MS 5.1.7 Complete retaining wall foundation for 30% of the total length (measured on plan) of approach ramp         MS 5.1.8 Complete retaining wall foundation for 30% of the total length (measured on plan) of approach ramp         MS 5.1.9 Complete retaining wall foundation for 50% of the total length (measured on plan) of approach ramp         MS 5.1.10 Complete retaining wall foundation for 60% of the total length (measured on plan) of approach ramp         MS 5.1.12 Complete retaining wall foundation for 70% of the total length (measured on plan) of approach ramp         MS 5.1.12 Complete retaining wall foundation for 70% of the total length (measured on plan) of approach ramp         MS 5.1.12 Complete retaining wall foundation for 90% of the total length (measured on plan) of approach ramp         MS 5.1.13 Complete retaining wall foundation for 70% of the total length (measured on plan) of approach ramp         MS 5.1.13 Complete retaining wall foundation for 90% of the total length (measured on plan) of appr	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		30-Nov-16 30-Jul-16 31-Mar-16 31-Mar-16 30-Apr-16 30-Apr-16 31-Oct-15 30-Nov-15 30-Nov-15 31-Dec-15 31-Dec-15 30-Jan-16 29-Feb-16 29-Feb-16 31-Mar-16	0%           0%	tructure tructure tructure proach ramp s d on plan) of a	MS 4.2.32 C structure at interface between tructure tructure tructure pproach ramp structure mplete 100% of cofferdam for	omplete Permanent tunnel structure for 75% of Cut and Cover Tunne n Cut-and-cover and TBM Tunnel
MS 4.2.34 Complete Permanent junction structure at interface between Cut-and-cover and TBM Tunnel         Approach Ramp Structures to Cut-and-cover Tunnel at Southern Landfall         MS 5.1.2 Complete 40% of excavation for approach ramp structures         MS 5.1.3 Complete 60% of excavation for approach ramp structures         MS 5.1.4 Complete 80% of excavation for approach ramp structures         MS 5.1.5 Complete 100% of excavation for approach ramp structures         MS 5.1.6 Complete retaining wall foundation for 10% of the total length (measured on plan) of approach ramp         MS 5.1.7 Complete retaining wall foundation for 30% of the total length (measured on plan) of approach ramp         MS 5.1.8 Complete retaining wall foundation for 50% of the total length (measured on plan) of approach ramp         MS 5.1.10 Complete retaining wall foundation for 50% of the total length (measured on plan) of approach ramp         MS 5.1.11 Complete retaining wall foundation for 60% of the total length (measured on plan) of approach ramp         MS 5.1.12 Complete retaining wall foundation for 70% of the total length (measured on plan) of approach ramp         MS 5.1.12 Complete retaining wall foundation for 80% of the total length (measured on plan) of approach ramp         MS 5.1.12 Complete retaining wall foundation for 90% of the total length (measured on plan) of approach ramp         MS 5.1.12 Complete retaining wall foundation for 90% of the total length (measured on plan) of approach ramp         MS 5.1.13 Complete retaining wall foundation for 90% of the total length (measured on plan) of app	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		30-Nov-16 30-Jul-16 31-Mar-16 31-Mar-16 30-Apr-16 30-Apr-16 31-Oct-15 30-Nov-15 30-Nov-15 31-Dec-15 31-Dec-15 30-Jan-16 29-Feb-16 29-Feb-16 31-Mar-16 30-Sep-16	0%           0%	anent junction tructure tructure proach ramp d on plan) of a MS 7.1.1 Co MS 7.1.2 Co	MS 4.2.32 C structure at interface between tructure tructure pproach ramp structure mplete 100% of cofferdam for mplete 100% of excavation t	omplete Permanent tunnel structure for 75% of Cut and Cover Tunne n Cut-and-cover and TBM Tunnel
MS 4.2.34 Complete Permanent junction structure at interface between Cut-and-cover and TBM Tunnel         Approach Ramp Structures to Cut-and-cover Tunnel at Southern Landfall         MS 5.1.2 Complete 40% of excavation for approach ramp structures         MS 5.1.3 Complete 60% of excavation for approach ramp structures         MS 5.1.4 Complete 80% of excavation for approach ramp structures         MS 5.1.5 Complete 100% of excavation for approach ramp structures         MS 5.1.6 Complete retaining wall foundation for 10% of the total length (measured on plan) of approach ramp         MS 5.1.7 Complete retaining wall foundation for 30% of the total length (measured on plan) of approach ramp         MS 5.1.9 Complete retaining wall foundation for 40% of the total length (measured on plan) of approach ramp         MS 5.1.10 Complete retaining wall foundation for 50% of the total length (measured on plan) of approach ramp         MS 5.1.10 Complete retaining wall foundation for 60% of the total length (measured on plan) of approach ramp         MS 5.1.12 Complete retaining wall foundation for 70% of the total length (measured on plan) of approach ramp         MS 5.1.12 Complete retaining wall foundation for 70% of the total length (measured on plan) of approach ramp         MS 5.1.14 Complete retaining wall foundation for 90% of the total length (measured on plan) of approach ramp         MS 5.1.15 Complete retaining wall foundation for 90% of the total length (measured on plan) of approach ramp         MS 5.1.14 Complete retaining wall foundation for 90% of the total length (measured on plan) of app	0       0		30-Nov-16 30-Jul-16 31-Mar-16 31-Mar-16 30-Apr-16 30-Apr-16 31-Oct-15 30-Nov-15 30-Nov-15 31-Dec-15 31-Dec-15 30-Jan-16 29-Feb-16 29-Feb-16 31-Mar-16 30-Sep-16 30-Sep-16 30-Apr-16	0%           0%	anent junction tructure tructure proach ramp d on plan) of a MS 7.1.1 Co MS 7.1.2 Co	MS 4.2.32 C structure at interface between tructure tructure pproach ramp structure mplete 100% of cofferdam for mplete 100% of excavation t	omplete Permanent tunnel structure for 75% of Cut and Cover Tunn n Cut-and-cover and TBM Tunnel r excavation o the formation level ting works of 25% area of the total construction floor area for the ven
MS 4.2.34 Complete Permanent junction structure at interface between Cut-and-cover and TBM Tunnel <b>Approach Ramp Structures to Cut-and-cover Tunnel at Southern Landfall</b> MS 5.1.2 Complete 40% of excavation for approach ramp structures         MS 5.1.3 Complete 60% of excavation for approach ramp structures         MS 5.1.4 Complete 80% of excavation for approach ramp structures         MS 5.1.5 Complete 100% of excavation for approach ramp structures         MS 5.1.6 Complete retaining wall foundation for 10% of the total length (measured on plan) of approach ramp         MS 5.1.7 Complete retaining wall foundation for 20% of the total length (measured on plan) of approach ramp         MS 5.1.8 Complete retaining wall foundation for 50% of the total length (measured on plan) of approach ramp         MS 5.1.10 Complete retaining wall foundation for 50% of the total length (measured on plan) of approach ramp         MS 5.1.12 Complete retaining wall foundation for 60% of the total length (measured on plan) of approach ramp         MS 5.1.12 Complete retaining wall foundation for 70% of the total length (measured on plan) of approach ramp         MS 5.1.12 Complete retaining wall foundation for 90% of the total length (measured on plan) of approach ramp         MS 5.1.13 Complete retaining wall foundation for 90% of the total length (measured on plan) of approach ramp         MS 5.1.14 Complete retaining wall foundation for 90% of the total length (measured on plan) of approach ramp         MS 5.1.15 Complete retaining wall foundation for 90% of the total length (measured on plan) of a	0           0		30-Nov-16 30-Jul-16 31-Mar-16 31-Mar-16 30-Apr-16 30-Apr-16 31-Oct-15 30-Nov-15 31-Dec-15 31-Dec-15 30-Jan-16 29-Feb-16 29-Feb-16 30-Jan-16 30-Jan-16 30-Jan-16 30-Sep-16 30-Sep-16 30-Apr-16 31-Oct-16	0%           0%	anent junction tructure tructure proach ramp d on plan) of a MS 7.1.1 Co MS 7.1.2 Co	MS 4.2.32 C structure at interface between tructure tructure pproach ramp structure mplete 100% of cofferdam for mplete 100% of excavation t	omplete Permanent tunnel structure for 75% of Cut and Cover Tunn n Cut-and-cover and TBM Tunnel r excavation o the formation level ting works of 25% area of the total construction floor area for the ven MS 7.1.5 Complete concreting works of 50% area of the total cons
MS 4.2.34 Complete Permanent junction structure at interface between Cut-and-cover and TBM Tunnel         Approach Ramp Structures to Cut-and-cover Tunnel at Southern Landfall         MS 5.1.2 Complete 40% of excavation for approach ramp structures         MS 5.1.3 Complete 60% of excavation for approach ramp structures         MS 5.1.4 Complete 80% of excavation for approach ramp structures         MS 5.1.5 Complete 100% of excavation for approach ramp structures         MS 5.1.6 Complete retaining wall foundation for 10% of the total length (measured on plan) of approach ramp         MS 5.1.7 Complete retaining wall foundation for 20% of the total length (measured on plan) of approach ramp         MS 5.1.8 Complete retaining wall foundation for 50% of the total length (measured on plan) of approach ramp         MS 5.1.1 Complete retaining wall foundation for 50% of the total length (measured on plan) of approach ramp         MS 5.1.1 Complete retaining wall foundation for 60% of the total length (measured on plan) of approach ramp         MS 5.1.1 Complete retaining wall foundation for 70% of the total length (measured on plan) of approach ramp         MS 5.1.1 Complete retaining wall foundation for 90% of the total length (measured on plan) of approach ramp         MS 5.1.1 Complete retaining wall foundation for 90% of the total length (measured on plan) of approach ramp         MS 5.1.1 Complete retaining wall foundation for 90% of the total length (measured on plan) of approach ramp         MS 5.1.1 Complete retaining wall foundation for 90% of the total length (measured on plan) of approach r	0       0		30-Nov-16 30-Jul-16 31-Mar-16 31-Mar-16 30-Apr-16 30-Apr-16 31-Oct-15 30-Nov-15 30-Nov-15 31-Dec-15 31-Dec-15 30-Jan-16 29-Feb-16 29-Feb-16 31-Mar-16 30-Sep-16 30-Sep-16 30-Apr-16 31-Oct-16 31-Dec-16	0%           0%	anent junction tructure tructure proach ramp d on plan) of a MS 7.1.1 Co MS 7.1.2 Co	MS 4.2.32 C structure at interface between tructure tructure pproach ramp structure mplete 100% of cofferdam for mplete 100% of excavation t	omplete Permanent tunnel structure for 75% of Cut and Cover Tunne n Cut-and-cover and TBM Tunnel
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MS 4.2.34 Complete Permanent junction structure at interface between Cut-and-cover and TBM Tunnel         Approach Ramp Structures to Cut-and-cover Tunnel at Southern Landfall         MS 5.1.2 Complete 40% of excavation for approach ramp structures         MS 5.1.3 Complete 60% of excavation for approach ramp structures         MS 5.1.4 Complete 80% of excavation for approach ramp structures         MS 5.1.5 Complete 100% of excavation for approach ramp structures         MS 5.1.6 Complete retaining wall foundation for 10% of the total length (measured on plan) of approach ramp         MS 5.1.7 Complete retaining wall foundation for 20% of the total length (measured on plan) of approach ramp         MS 5.1.8 Complete retaining wall foundation for 50% of the total length (measured on plan) of approach ramp         MS 5.1.1 Complete retaining wall foundation for 50% of the total length (measured on plan) of approach ramp         MS 5.1.1 Complete retaining wall foundation for 60% of the total length (measured on plan) of approach ramp         MS 5.1.1 Complete retaining wall foundation for 70% of the total length (measured on plan) of approach ramp         MS 5.1.1 Complete retaining wall foundation for 90% of the total length (measured on plan) of approach ramp         MS 5.1.1 Complete retaining wall foundation for 90% of the total length (measured on plan) of approach ramp         MS 5.1.1 Complete retaining wall foundation for 90% of the total length (measured on plan) of approach ramp         MS 5.1.1 Complete retaining wall foundation for 90% of the total length (measured on plan) of approach r	0       0		30-Nov-16 30-Jul-16 31-Mar-16 31-Mar-16 30-Apr-16 30-Apr-16 31-Oct-15 30-Nov-15 30-Nov-15 31-Dec-15 31-Dec-15 30-Jan-16 29-Feb-16 29-Feb-16 31-Mar-16 30-Sep-16 30-Sep-16 30-Apr-16 31-Oct-16 31-Dec-16 28-Feb-17	0%           0%	anent junction tructure tructure proach ramp s d on plan) of a MS 7.1.1 Co MS 7.1.2 Co	MS 4.2.32 C structure at interface between tructure tructure tructure pproach ramp structure mplete 100% of cofferdam for mplete 100% of excavation t MS 7.1.4 Complete concre 5% area of the total construct	omplete Permanent tunnel structure for 75% of Cut and Cover Tunnel n Cut-and-cover and TBM Tunnel r excavation o the formation level ting works of 25% area of the total construction floor area for the ven > MS 7.1.5 Complete concreting works of 50% area of the total const MS 7.1.6 Complete concreting works of
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MS 4.2.34 Complete Permanent junction structure at interface between Cut-and-cover and TBM Tunnel         Approach Ramp Structures to Cut-and-cover Tunnel at Southern Landfall         MS 5.1.2 Complete 40% of excavation for approach ramp structures         MS 5.1.3 Complete 80% of excavation for approach ramp structures         MS 5.1.4 Complete 80% of excavation for approach ramp structures         MS 5.1.5 Complete 100% of excavation for approach ramp structures         MS 5.1.6 Complete retaining wall foundation for 10% of the total length (measured on plan) of approach ramp         MS 5.1.7 Complete retaining wall foundation for 30% of the total length (measured on plan) of approach ramp         MS 5.1.9 Complete retaining wall foundation for 50% of the total length (measured on plan) of approach ramp         MS 5.1.10 Complete retaining wall foundation for 60% of the total length (measured on plan) of approach ramp         MS 5.1.12 Complete retaining wall foundation for 70% of the total length (measured on plan) of approach ramp         MS 5.1.13 Complete retaining wall foundation for 90% of the total length (measured on plan) of approach ramp         MS 5.1.14 Complete retaining wall foundation for 90% of the total length (measured on plan) of approach ramp         MS 5.1.15 Complete retaining wall foundation for 90% of the total length (measured on plan) of approach ramp         MS 5.1.16 Complete retaining wall foundation for 90% of the total length (measured on plan) of approach ramp         MS 5.1.15 Complete retaining wall foundation for 90% of the total length (measured on plan) of app	0       0	onnection	30-Nov-16 30-Jul-16 31-Mar-16 31-Mar-16 30-Apr-16 30-Apr-16 31-Oct-15 30-Nov-15 31-Dec-15 31-Dec-15 31-Dec-15 30-Jan-16 29-Feb-16 29-Feb-16 30-Jan-16 30-Sep-16 30-Sep-16 30-Sep-16 31-Oct-16 31-Oct-16 31-Oct-16	0%           0%	anent junction tructure tructure proach ramp s d on plan) of a MS 7.1.1 Co MS 7.1.2 Co	MS 4.2.32 C structure at interface between tructure tructure tructure pproach ramp structure mplete 100% of cofferdam for mplete 100% of excavation t MS 7.1.4 Complete concre 5% area of the total construct	omplete Permanent tunnel structure for 75% of Cut and Cover Tunnel         n Cut-and-cover and TBM Tunnel         r excavation         o the formation level         ting works of 25% area of the total construction floor area for the ven         MS 7.1.5 Complete concreting works of 50% area of the total construction floor area for the ven         MS 7.1.6 Complete concreting works of 50% area of the total construction floor area for the ven         ing works of 50% area of the total construction floor area for the ven         MS 7.1.6 Complete concreting works of 50% area of the total construction floor area for the ven         ing works of 50% area of the total construction floor area for the ven         ing works of 50% area of the total construction floor area for the ven         ing works of 50% area of the total construction floor area for the ven         ing works of 50% area of the total construction floor area for the ven         ing works of 50% area of the total construction floor area for the ven         ing works of 50% area of the total construction floor area for the ven         Instended       Revision         Chedied       Approved         Instended       Revision         Instended       Stended
MS 4.2.34 Complete Permanent junction structure at interface between Cut-and-cover and TBM Tunnel         Approach Ramp Structures to Cut-and-cover Tunnel at Southern Landfall         MS 5.1.2 Complete 40% of excavation for approach ramp structures         MS 5.1.3 Complete 60% of excavation for approach ramp structures         MS 5.1.4 Complete 80% of excavation for approach ramp structures         MS 5.1.5 Complete 100% of excavation for approach ramp structures         MS 5.1.7 Complete retaining wall foundation for 10% of the total length (measured on plan) of approach ramp         MS 5.1.8 Complete retaining wall foundation for 30% of the total length (measured on plan) of approach ramp         MS 5.1.10 Complete retaining wall foundation for 50% of the total length (measured on plan) of approach ramp         MS 5.1.10 Complete retaining wall foundation for 70% of the total length (measured on plan) of approach ram         MS 5.1.12 Complete retaining wall foundation for 70% of the total length (measured on plan) of approach ram         MS 5.1.12 Complete retaining wall foundation for 90% of the total length (measured on plan) of approach ram         MS 5.1.12 Complete retaining wall foundation for 90% of the total length (measured on plan) of approach ram         MS 5.1.12 Complete retaining wall foundation for 90% of the total length (measured on plan) of approach ram         MS 5.1.12 Complete retaining wall foundation for 100% of the total length (measured on plan) of approach ram         MS 5.1.13 Complete retaining wall foundation for 100% of the total length (measured on plan) of approa	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		30-Nov-16 30-Jul-16 31-Mar-16 31-Mar-16 30-Apr-16 30-Apr-16 31-Oct-15 30-Nov-15 31-Dec-15 30-Nov-15 31-Dec-16 30-Jan-16 29-Feb-16 30-Jan-16 30-Jan-16 30-Jan-16 30-Jan-16 30-Jan-16 31-Mar-16 31-Oct-16 31-Oct-16 31-Oct-16 31-Oct-16 31-Oct-16 31-Oct-16 31-Oct-16 31-Oct-16 31-Oct-16 31-Oct-16 31-Oct-16 31-Oct-16 31-Oct-16 31-Oct-16 31-Oct-16 31-Oct-16 31-Oct-16 31-Oct-16 31-Oct-16	0%           0%	anent junction tructure tructure proach ramp s d on plan) of a MS 7.1.1 Co MS 7.1.2 Co	MS 4.2.32 C structure at interface between tructure tructure tructure pproach ramp structure mplete 100% of cofferdam for mplete 100% of excavation t MS 7.1.4 Complete concre 5% area of the total construct MS 7.2.5 Complete concre	omplete Permanent tunnel structure for 75% of Cut and Cover Tunnel         n Cut-and-cover and TBM Tunnel         r excavation         o the formation level         ting works of 25% area of the total construction floor area for the ven         MS 7.1.5 Complete concreting works of 50% area of the total const         • MS 7.1.6 Complete concreting works of 50% area for the ven         ion floor area for the ventilation building         ting works of 50% area of the total construction floor area for the ven         • MS 7.1.6 Complete concreting works of 50% area of the total const         • MS 7.1.6 Complete concreting works of 50% area of the total const         • MS 7.1.6 Complete concreting works of 50% area of the total const         • MS 7.1.6 Complete concreting works of 50% area for the ven         ion floor area for the ventilation building         ting works of 50% area of the total construction floor area for the ven
MS 4.2.34 Complete Permanent junction structure at interface between Cut-and-cover and TBM Tunnel         Approach Ramp Structures to Cut-and-cover Tunnel at Southern Landfall         MS 5.1.2 Complete 40% of excavation for approach ramp structures         MS 5.1.3 Complete 80% of excavation for approach ramp structures         MS 5.1.4 Complete 80% of excavation for approach ramp structures         MS 5.1.5 Complete 100% of excavation for approach ramp structures         MS 5.1.6 Complete retaining wall foundation for 10% of the total length (measured on plan) of approach ramp         MS 5.1.7 Complete retaining wall foundation for 20% of the total length (measured on plan) of approach ramp         MS 5.1.8 Complete retaining wall foundation for 40% of the total length (measured on plan) of approach ramp         MS 5.1.10 Complete retaining wall foundation for 50% of the total length (measured on plan) of approach ramp         MS 5.1.11 Complete retaining wall foundation for 60% of the total length (measured on plan) of approach ramp         MS 5.1.12 Complete retaining wall foundation for 90% of the total length (measured on plan) of approach ramp         MS 5.1.13 Complete retaining wall foundation for 90% of the total length (measured on plan) of approach ramp         MS 5.1.14 Complete retaining wall foundation for 90% of the total length (measured on plan) of approach ramp         MS 5.1.13 Complete retaining wall foundation for 90% of the total length (measured on plan) of approach ramp         MS 5.1.14 Complete retaining wall foundation for 90% of the total length (measured on plan) of app	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Connection orks Progra	30-Nov-16 30-Jul-16 31-Mar-16 31-Mar-16 30-Apr-16 30-Apr-16 31-Oct-15 30-Nov-15 31-Dec-15 30-Nov-15 31-Dec-16 30-Jan-16 29-Feb-16 30-Jan-16 30-Jan-16 30-Jan-16 30-Jan-16 30-Jan-16 31-Mar-16 31-Oct-16 31-Oct-16 31-Oct-16 31-Oct-16 31-Oct-16 31-Oct-16 31-Oct-16 31-Oct-16 31-Oct-16 31-Oct-16 31-Oct-16 31-Oct-16 31-Oct-16 31-Oct-16 31-Oct-16 31-Oct-16 31-Oct-16 31-Oct-16 31-Oct-16	0%           0%	anent junction tructure tructure proach ramp s d on plan) of a MS 7.1.1 Co MS 7.1.2 Co	◆ MS 4.2.32 C structure at interface between tructure tructure tructure pproach ramp structure mplete 100% of cofferdam for mplete 100% of excavation t MS 7.1.4 Complete concre 5% area of the total construct MS 7.2.5 Complete concre	omplete Permanent tunnel structure for 75% of Cut and Cover Tunnel         n Cut-and-cover and TBM Tunnel         r excavation         o the formation level         ting works of 25% area of the total construction floor area for the ven         MS 7.1.5 Complete concreting works of 50% area of the total const         MS 7.1.6 Complete concreting works of 50% area of the total const         ion floor area for the ventilation building         ting works of 50% area of the total construction floor area for the ventilation building         ion floor area for the ventilation building         ting works of 50% area of the total construction floor area for the ventilation building         ting works of 50% area of the total construction floor area for the ventilation building         ting works of 50% area of the total construction floor area for the ventilation building         ting works of 50% area of the total construction floor area for the ventilation building         ting works of 50% area of the total construction floor area for the ventilation building         ting works of 50% area of the total construction floor area for the ventilation building         ting works of 50% area of the total construction floor area for the ventilation building         ting works of 50% area of the total construction floor area for the ventilation building         ting works of 50% area of the total construction floor area for the ventilation building         ting works of 50% area of the total construction floor

Progress as of 01-Jan-17

⊿ygues Joint Venture 寶嘉 - 布依格聯營

Progress Milestone

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y Name	Orig Dur	DWPF Start	DWPF Finish	% Comp		2016	Dec	lore		2017 Mar Apr	
MS 7.2.6 Complete concreting works of 75% area of the total construction floor area for the ventilation building	0		31-Dec-16	0%	Oct	Nov	Dec	Jan MS 7.2.6 Co		Mar Apr works of 75% area of	of the total o
Facilities Provision for E&M Works for TBM Tunnel, Cut & Cover Tunnels and Cro	oss Pas	sages							+		
MS 9.1.1 Complete 25% of bonding terminal, opening and accessories, etc. MS 9.1.2 Complete 25% of plinth, hoisting facilities and accessories, etc.	0		30-Sep-16 30-Sep-16	0%	-	1.1	-		and accessories, etc.	etc.	
MS 9.1.3 Complete 50% of bonding terminal, opening and accessories, etc.	0		31-Jan-17	0%	1010 0.1.2 0			-	1 1	lete 50% of bonding	terminal, o
MS 9.1.4 Complete 50% of plinth, hoisting facilities and accessories, etc.	0		31-Jan-17	0%					i	lete 50% of plinth, ho	
Construction							   		   		
Northern Landfall North Reclamation (Phase 1)							1				
Box Culvert Extension					-		1				
Construction											
Ch000-010 Culvert Outfall	18	OF Nov 15	15 Dec 15	09/							
Removal of temporary bulk head Ch150-250 Marine Section	10	25-Nov-15	15-Dec-15	0%			1		I I I I I I I I		
ELS & Structure									       		
Pile A41/A39 CJ to Pile A39/A37 CJ									I I I I I I I I		
ELS Excavation to 0.5m below strut S2	4	05-Feb-16	16-Feb-16	100%							
Installation of strut S2	6	17-Feb-16	23-Feb-16	100%	-						
Excavation to 0.5m below strut S1	5	24-Feb-16	29-Feb-16	100%	-						
Installation of strut S1 Excavation to FEL	5 5	01-Mar-16 07-Mar-16	05-Mar-16 11-Mar-16	100%							
Box Culvert Structure	5	07-10121-10	11-10141-10	100 /8							
Pile cap construction	10	18-Mar-16	01-Apr-16	100%					I I I I I I I		
Base slab construction including kicker	6	15-Apr-16	21-Apr-16	0%	-						
Removal of strut S1 Sliding formworks 1 st assembly	4 18	22-Apr-16 27-Apr-16	26-Apr-16 19-May-16	0%							
Walls & top slab construction	6	20-May-16	26-May-16	0%							
Removal of strut S2 & Backfilling up to required level	6	03-Jun-16	10-Jun-16	0%	rel						
Pile A39/A37 CJ to Pile A37/A35 CJ											
ELS Excavation to 0.5m below strut S2	4	17-Feb-16	20-Feb-16	100%							
Installation of strut S2	6	22-Feb-16	27-Feb-16	100%					++ 		
Excavation to 0.5m below strut S1	5	01-Mar-16	05-Mar-16	100%							
Installation of strut S1 Excavation to FEL	5 5	07-Mar-16 12-Mar-16	11-Mar-16 17-Mar-16	100%	-						
Box Culvert Structure	5	12-11/12-10	17-10101-10	100 %							
Pile cap construction	10	02-Apr-16	14-Apr-16	100%							
Base slab construction including kicker	6	22-Apr-16	28-Apr-16	0%	-						
Removal of strut S1 Walls & top slab construction	4 6	29-Apr-16 27-May-16	04-May-16 02-Jun-16	0%							
Removal of strut S2 & Backfilling up to required level	6	11-Jun-16	17-Jun-16	0%	llevel						
Pile A37/A35 CJ to Pile A35/A33 CJ	-						<b></b>				·
ELS		00 Eth 40	05 E-h 40	1000/							
Excavation to 0.5m below strut S2 Installation of strut S2	4 6	22-Feb-16 26-Feb-16	25-Feb-16 03-Mar-16	100%	-						
Excavation to 0.5m below strut S1	5	07-Mar-16	11-Mar-16	100%							
Installation of strut S1	5	12-Mar-16	17-Mar-16	100%							
Excavation to FEL Box Culvert Structure	5	18-Mar-16	23-Mar-16	100%							
Pile cap construction	10	15-Apr-16	26-Apr-16	100%							
Base slab construction including kicker	6	29-Apr-16	06-May-16	0%							
Removal of strut S1 Walls & top slab construction	4	07-May-16 03-Jun-16	11-May-16	0%							
Removal of strut S2 & Backfilling up to required level	6	18-Jun-16	10-Jun-16 24-Jun-16	0%	red level						
Pile A35/A33 CJ to Pile A33/P117 CJ											
ELS	,								¦		
Excavation to 0.5m below strut S2 Installation of strut S2	4 6	26-Feb-16 02-Mar-16	01-Mar-16 08-Mar-16	100%							
Excavation to 0.5m below strut S1	5	12-Mar-16	17-Mar-16	100%							
Installation of strut S1	5	18-Mar-16	23-Mar-16	100%							
Excavation to FEL	5	24-Mar-16	01-Apr-16	100%							
Box Culvert Structure Pile cap construction	10	27-Apr-16	09-May-16	100%	-						
Base slab construction including kicker	6	10-May-16	17-May-16	0%							
Removal of strut S1	4	18-May-16	21-May-16	0%							
Walls & top slab construction	6	11-Jun-16	17-Jun-16	0%							
Pile A33/P117 CJ to Pile P113/P109 CJ Box Culvert Structure											
Box Culvert Structure Base slab construction including kicker	6	18-May-16	24-May-16	0%	-						
Removal of strut S1	4	25-May-16	28-May-16	0%							
Walls & top slab construction	6	18-Jun-16	24-Jun-16	0%							
Pile P113/P109 CJ to Pile P105/P101 CJ Box Culvert Structure											
Base slab construction including kicker	6	25-May-16	31-May-16	50%	-						
Removal of strut S1	4	01-Jun-16	04-Jun-16	0%							
Pile P105/P101 CJ to Pile P97/P93 CJ											
Box Culvert Structure Base slab construction including kicker	6	01-Jun-16	07-Jun-16	0%							
Removal of strut S1	4	08-Jun-16	13-Jun-16	0%							
Pile P97/P93 CJ to Pile P89/P85 CJ	1			·							
Box Culvert Structure	<u>^</u>	00 1 10	15 1	500/							
Base slab construction including kicker Removal of strut S1	6 4	08-Jun-16 16-Jun-16	15-Jun-16 20-Jun-16	50% 0%	-						
Pile P89/P85 CJ to Pile P81/P77 CJ	-		_0 0011-10	0 /0	-						
Box Culvert Structure											
Base slab construction including kicker	6	16-Jun-16	22-Jun-16	0%							1
3 of 11 Planned Bar TMCLK - Nort	thern C	Connection	Sub-Sea	Tunnel	Section					Revision Che JIGEN/PRG/98507 WYu	SPo
Planned Bar - Critical	ile el M	orke Do	· · · · · · · · · · · · · · · · · · ·			香	寶嘉		28-Aug-14 TMCLK/DB	JGEN/PRG/98507 Rev.B SPa JGEN/PRG/98507 Rev.C CLa JGEN/PRG/98507 Rev.F WYu	WYu WYu
Planned Milestone	lied W	orks Progr	amme (Re	÷v.⊢)		Di Di	。貝茄 ragages ongKong	BOUYGUES TRAVAUX PUBLICS			
Date: 01-Jan-17 Progress bar Th	ree Mo	onths Rollin	ng Progran	nme		A member of the Bouygues Con	struction group Joint Venture 寶嘉 - 布·	花格勝等			
			-				veniure 頁絡 · 币	1971日1971 高			

ty Name	Orig Dur	DWPF Start	DWPF Finish	% Comp	2016 2017
Removal of strut S1	4	23-Jun-16	27-Jun-16	0%	Oct Nov Dec Jan Feb Mar Apr Ma
Pile P81/P77 CJ to Pile P73/P69 CJ		1			
Box Culvert Structure Base slab construction including kicker	6	23-Jun-16	29-Jun-16	100%	
Ch250-380 Marine Section Installation of Dewatering & Observation Well Ch 250-380	23	04-Nov-15	30-Nov-15	100%	
1st Pumping Test & Analysis	17	01-Dec-15	19-Dec-15	100%	
Toe Grouting 2nd Pumping test & Analysis	106 25	21-Dec-15	07-May-16 07-May-16	100% 100%	
Remaining toe grouting Ch250-380	51	08-Apr-16 09-May-16	07-May-18 09-Jul-16	100%	
NewActivity	0			0%	
ELS & Structure Geotextile - Phase 2 Reclamation - along combi wall system	4	03-Dec-16	08-Dec-16	0%	Geotextile - Phase 2 Reclamation - along combi wall system
Sand Blanket - Phase 2 Reclamation - along combi wall system	6	08-Dec-16	15-Dec-16	0%	Sand Blanket - Phase 2 Reclamation - along combi wall system
Band Drain - Phase 2 Reclamation - along combi wall system Public Fill - Phase 2 Reclamation - along combi wall system	30 14	15-Dec-16 23-Jan-17	23-Jan-17 15-Feb-17	0% 0%	Band Drain - Phase 2 Reclamation - along combined of the second s
Pile P73/P69 CJ to Pile P65/P61 CJ					
ELS Excavation to 0.5m below strut S1	9	15-Feb-17	25-Feb-17	0%	Excavation to 0.5m below strut S1
Installation of strut S1	5	25-Feb-17	03-Mar-17	0%	Installation of strut S1
Excavation to FEL	5	03-Mar-17	09-Mar-17	0%	Excavation to FEL
Box Culvert Structure Base slab construction including kicker	6	16-Mar-17	23-Mar-17	0%	Base slab construction
Pile P65/P61 CJ to Pile P57/P53 CJ					
ELS Excavation to 0.5m below strut S1	9	22-Feb-17	04-Mar-17	0%	Excavation to 0.5m below strut S
Installation of strut S1	5	04-Mar-17	10-Mar-17	0%	Installation of strut S1
Excavation to FEL	5	10-Mar-17	16-Mar-17	0%	Excavation to FEL
Pile P57/P53 CJ to Pile P49/P45 CJ ELS					
Excavation to 0.5m below strut S1	9	01-Mar-17	11-Mar-17	0%	Excavation to 0.5m below str
Installation of strut S1 Excavation to FEL	5	11-Mar-17 17-Mar-17	17-Mar-17 23-Mar-17	0% 0%	Installation of strut;S1
Pile P49/P45 CJ to Pile P41/P37 CJ					
ELS		08-Mar-17	10 Mar 17	0%	<b>_</b>
Excavation to 0.5m below strut S1 Pile P41/P37 CJ to Pile P33/P29 CJ	9	00-11121-17	TO-IVIAT-17	0%	Excavation to 0.5m below
ELS			,		
Excavation to 0.5m below strut S1 Miscellaneous works	9	15-Mar-17	25-Mar-17	0%	Excavation to 0.5m be
Inspection Manhole (IM)					
Inspection Manhole IM-01 to IM-04 & backfilling to +6.0mPD Inspection Manhole IM-09 to IM-12 & backfilling to +6.0mPD	12 18	24-Sep-15 20-Oct-16	09-Oct-15 09-Nov-16	0% 0%	
Stop Log Opening (SLO)	10	20-00-10	09-1100-10	0 /8	Inspection Manhole IN-09 to IM-12 & backfilling to +6.0mPD
SLO-01 to SLO-05 & backfilling to +6.0mPD	24	10-Oct-15	07-Nov-15	0%	
Blance Hole (BH) BH-01 to BH-03 & backfilling to +6.0mPD	18	03-Sep-15	23-Sep-15	0%	
BH-04 to BH-06 & backfilling to +6.0mPD	18	05-Sep-16	26-Sep-16	0%	BH-04 to BH-06 & backfilling to +6.0mPD
BH-07 to BH-09 & backfilling to +6.0mPD	18	10-Nov-16	30-Nov-16	0%	BH-07 to BH-09 & backfilling to +6.0mPD
Desilting Opening (DO) DO-01 to DO-04 & backfilling to +6.0mPD	18	27-Sep-16	19-Oct-16	0%	DQ-01 to DO-04 & backfilling to +6.0mPD
North Launching Shaft					
Design Submission (C1) DDA for North C&C Tunnel Permanent Structure					
SO's Review	35	24-May-14	27-Jun-14	90%	
SO Approval with Condition Received North Ventilation Shaft	0		27-Jun-14	0%	
Construction					
North Ventilation Shaft Structure NVS - ML03 Tunnel Structure	47	19-May-16	15-Jul-16	30%	
NVS - ML02 Tunnel Structure	44	05-Apr-16	27-May-16	46%	
TMCLK VO-008 - Construction of Viaduct Foundations at Portion N6A					
Viaduct Pile Cap Construction					
Pier G1b					
Pile Cap G1b - ELS Foundation Pile Cap G1b - Removal of Existing ground slab	24 6	03-Dec-16 04-Jan-17	04-Jan-17 11-Jan-17	0% 0%	Pile Cap G1b - ELS Foundation Pile Cap G1b - Removal of Existing ground slab
Pile Cap G1b - Excavation & ELS Installation	15	11-Jan-17	04-Feb-17	0%	Pile Cap G1b - Excavation & ELS Installation
Pile Cap G1b - Blinding Concrete Pile Cap G1b - Rebar & Concreting	3 18	04-Feb-17 08-Feb-17	08-Feb-17 01-Mar-17	0% 0%	Pile Cap G1b - Blinding Concrete
Pile Cap G1b - Rebar & Concreting Pile Cap G1b - Backfilling & Temp Reinstatement	6	08-Feb-17 01-Mar-17	01-Mar-17 08-Mar-17	0%	Pile Cap G1b - Rebar & Concretii
Pier H1b					
Pile Cap H1b - ELS Foundation Pier G1c	24	08-Mar-17	06-Apr-17	0%	Pile Cap'H1b - E
Pile Cap G1c - Preparation for ELS	6	24-Oct-14	30-Oct-14	0%	
Pile Cap G1c - Removal of Existing ground slab Pile Cap G1c - Excavation & ELS Installation	6	31-Oct-14	06-Nov-14	0%	
Pile Cap G1c - Excavation & ELS Installation Pile Cap G1c - Blinding Concrete	12 3	07-Nov-14 21-Nov-14	20-Nov-14 24-Nov-14	0% 0%	
Pile Cap G1c - Rebar & Concreting	18	25-Nov-14	15-Dec-14	0%	
Pile Cap G1c - Backfilling & Temp Reinstatement Pier H1c	6	16-Dec-14	22-Dec-14	0%	
Pile Cap H1c - Preparation for ELS	6	02-Nov-15	07-Nov-15	0%	
Pile Cap H1c - Removal of Existing ground slab	6	09-Nov-15	14-Nov-15	0%	
North Approach TBM Tunnelling & Cross Passage Construction					
Northern Landfall Surface Setup for TBM operation	1	1			
Gantry Removal at North TBM Launching Shaft	24	17-Mar-17	19-Apr-17	0%	Gantry Re
4 of 11 Planned Bar TMCLK - I	Northern C	Connection	Sub-Sea	Funnel	I Section Revision Cheded App 12-feb-14 TMCLKDBJGENPRG98507 WYu SPo 08-4pr-14 TMCLKDBJGENPRG98507 Rvs B SPa WYu
ct ID: TMCLK DWPF 16W25	)etailed W	orks Progr	amme (Re	v. F)	香寶嘉 港貿嘉
Planned Milestone		•	,	,	Dragages HongKong
Date: 01-Jan-17 Progress bar Progress bar Progress Milestone	Three Mo	onths Rollin	ng Progran	nme	A meter of the Bourgauss Construction group Dragages - Bourgaues Joint Venture 實憲 - 布依格聯營

Name	Orig Dur	DWPF Start	DWPF Finish	% Comp	Oct	2016 Nov	Dec	2017 Jan Feb Mar Apr	Ма
Slurry Treatment Plant De commissioning & Removal	48	17-Mar-17	19-May-17	0%					
North Approach Tunnel Internal Structure - NB CP51 - Excavation & Lining completion	0		09-Nov-16	0%	1	◆ CP51	- Excavation 8	Lining completion	
NB - North TBM Tunnel - Corbel & Cable Trough installation	42	31-Aug-16	22-Oct-16	91%				el & Cable Trough installation	
NB - North TBM Tunnel - OHVD Slab installation	42	07-Sep-16	29-Oct-16	0%		1		HVD Slab installation	
NB - North TBM Tunnel - Fire proofing and Provision to E&MS and TCSS Contract for KD1	42	14-Sep-16	05-Nov-16	0%		NB - Noi	rth TBM Tunnel ¦	Fire proofing and Provision to E&MS and TCSS Contra	ict for K
North Approach Tunnel Internal Structure - SB SB - North TBM Tunnel - Corbel & Cable Trough installation	42	22-Oct-16	10-Dec-16	91%		i	¦ 	orth TBM Tunnel - Corbel & Cable Trough installation	
SB - North TBM Tunnel - OHVD Slab installation	42	29-Oct-16	17-Dec-16	3%	1			North TBM Tunnel - OHVD Slab installation	
SB - North TBM Tunnel - Fire proofing & Provision to E&MS and TCSS Contract for KD1	42	05-Nov-16	24-Dec-16	0%				\$B - North TBM Tunnel - Fire proofing & Provision to E&N	/IS and
North Approach Cross Passage CP55 - Traditional Method									
CP Finishing & Demobilization	18	23-May-16	14-Jun-16	100%	1				
CP52 - Pipe Jacking Method							 1 1		
CP Finishing & Demobilization	21	24-Mar-16	22-Apr-16	100%	-				
CP51 - Traditional Method CP Excavation	14	14-Sep-16	28-Sep-16	100%	CP Excavati	'n			
CP Lining	14	28-Sep-16	12-Oct-16	100%	CP Li	i.			
2nd Segment Opening	7	12-Oct-16	19-Oct-16	100%		d Segment O	pening		
CP Finishing & Demobilization	18	19-Oct-16	09-Nov-16	100%		CP Fir	nishing & Demo	pilization	
CP50 - Pipe Jacking Method CP Finishing & Demobilization	21	27-Jun-16	21-Jul-16	100%					
North Ventilation Building	21	27-0011-10	21-501-10	100 /8					
Design Submission				_		.i			
(A11) Submissons to Design Advisory Panel of ArchSD									
ArchSD's comment	30	10-Jun-14	09-Jul-14	93%					
(I1) DDA for North Vent.Bldgs. GBP & Arch.Submission	28	21-Aug-14	17-Sep-14	92%	1				
IP's No Objection Received	0		17-Sep-14 17-Sep-14	0%			;		
SO's Review	35	21-Aug-14	24-Sep-14	94%	-				
SO Approval with Condition Received	0		24-Sep-14	0%	<u> </u>		1	┥	
(11) DDA for North & South Vent.Bldg. ABWF works		00 D== 11	00 D== 11	000/	1				
IPs/SO'sAdvance Comments/ICE Comments Comments Received	28	03-Dec-14	30-Dec-14 30-Dec-14	88%			, ,		
Designer to Reply RtC + Update Submission	21	31-Dec-14	24-Jan-15	0%	-				
Submit Updated DDA to SO/ ICE/ IPs	0	26-Jan-15		0%	<b></b>		1	4	
ICE Approval & Issue Check Cert	18	26-Jan-15	14-Feb-15	0%					
Submit ICE Check Cert to SO IPs Review	6	16-Feb-15 26-Jan-15	25-Feb-15 22-Feb-15	0%	+		<u> </u>		
IP's Review IP's No Objection Received	28	20-Jali-15	22-Feb-15 22-Feb-15	0%	-		1		
SO's Review	35	26-Jan-15	01-Mar-15	0%	-				
SO Approval with Condition Received	0		02-Mar-15	0%			1	4	
(I2) DDA for North Vent.Bldgs.Structural Design incl.Vent.Connections					<b>.</b>	 	   		
IPs Review Pr's No Objection Received	28	24-Dec-14	20-Jan-15	92% 0%	-		1		
IP's No Objection Received SO's Review	35	24-Dec-14	20-Jan-15 27-Jan-15	0% 92%			1	]	
SO Approval with Condition Received	0		27-Jan-15	0%	-	1	1		
(I3) DDA for North & South Vent.Bldgs. Service and E&M Provision						   	1 1 1		
ICE Approval & Issue Check Cert	12	15-Jan-15	28-Jan-15	100%	_		1		
Submit ICE Check Cert to SO IPs Review	6 28	29-Jan-15 15-Jan-15	04-Feb-15 11-Feb-15	100% 92%	-	1			
IP's No Objection Received	0	10 0411-10	11-Feb-15	0%	-				
SO's Review	35	15-Jan-15	18-Feb-15	91%	-				
SO Approval with Condition Received	0		18-Feb-15	0%					
Construction Substructure	120	28-Jun-16	19-Nov-16	0%	1		hotevot		
Substructure Superstructure	120	28-Jun-16 19-Nov-16	19-Nov-16 24-Apr-17	0%		s	ubstructure '		Supers
Iorth Reclamation (Phase 2)						7			
Construction					1				
Dredging - Phase 2 (Zone G)	18	03-Dec-16	24-Dec-16	10%	_			Dredging - Phase 2 (Zone G)	
VS - Rock Grade 400 - Zone G VS - Levelling Stone & Seawall Block - Zone G	9 27	24-Dec-16 07-Jan-17	07-Jan-17 15-Feb-17	0%	-			VS - Rock Grade 400 - Zone G VS - Levelling Stone & Seawall E	Block
VS - Rock Type A - Zone G	10	15-Feb-17	27-Feb-17	0%	-	1 1 1		VS - Levelling Stone & Seawall L	
Vertical Seawall - Bermstone - (Zone G)	18	27-Feb-17	20-Mar-17	0%	1	· · · · · · · · · · · · · · · · · · ·	 ! !	Vertical Seawall	
Vertical Seawall - Seawall Coping - (Zone G)	78	27-Feb-17	06-Jun-17	0%	_		/		
Geotextile (Zone G)	11	24-Dec-16	10-Jan-17	0%			-	Geotextile (Zone G)	
Sand Blanket (Zone G) Band Drain (Zone G)	21	31-Dec-16 14-Jan-17	26-Jan-17 25-Feb-17	0%				Sand Blanket (Zone G) Band Drain (Zone G)	
Reclamation - Phase 2	24	14-Jan-17 11-Feb-17	11-Mar-17	0%	+			Band Drain (Zone G) Reclamation - Phase	2
Backfilling to +10mPD - Phase 2	48	25-Feb-17	27-Apr-17	0%	-	1 1 1			Backfi
orth Surface Roadworks, Utility & Drainage works					1				
Construction		07.	00.1	<b>AC</b> (	4				
North Landfall - Underground Sewerage & Drainage - Summary North Landfall - Underground Sewerage & Drainage - Portion N5	408	27-Jan-17 11-Mar-17	26-Jun-18 30-Aug-17	0%	+				
ib-sea Tunnel	139	11 IVICLI - I /	50 Aug-17	0 /0					
ub-sea TBM Tunnelling					1				
Major Procurement					i i	1 1 1			
Precast Semgnet ID12.40 - Production for Sub-sea TBM Tunnel					<b>.</b>		¦ 		
ID12.40 TBM Segment Ring Fabrication - 12 rings per day	300	22-Nov-14	19-Dec-15	89%	-				
Design Submission (G1) DDA for TBM Tunnel Lining Structural Design - Sub-sea tunnel					1				
Sub-sea TBM Tunnel Segment - Fabrication	265	06-Oct-14	26-Aug-15	89%	•				
(G3) DDA for TBM Tunnel Internal Structures (Sub-sea)							, , , ,		
Sub-sea Tunnel - Precast Gallery Fabrication	244	22-Jan-15	18-Nov-15	84%	_				
Construction					4				
		14-Aug-16	02-Sep-16	100%	ea TRM Turr		Saturation (O	<b>5</b> 550 to 5330 - 220m)	
Sub-sea TBM Tunnel - NB ID12.2m - S881	10		05 06h-10	100 /0	Ca I DIVI IUNN	with בעס ייסי י			
Sub-sea TBM Tunnel - NB ID12.2m - S881 NB - Sub-sea TBM Tunnel - CDG with Saturation (Ch5550 to 5330 - 220m)	18								
Sub-sea TBM Tunnel - NB ID12.2m - S881 NB - Sub-sea TBM Tunnel - CDG with Saturation (Ch5550 to 5330 - 220m)	18 Northern (	0	I Sub-Sea	Tunnel	Section			Date         Revision         Checked           12-Feb-14         TMCLKDBJGEN/PRG/98507         WYu           08-Apr-14         TMCLKDBJGEN/PRG/98507 Ray B, Spa	SPo
Sub-sea TBM Tunnel - NB ID12.2m - S881         NB - Sub-sea TBM Tunnel - CDG with Saturation (Ch5550 to 5330 - 220m)         of 11         Planned Bar         ID: TMCLK DWPF 16W25	Northern (	Connection			Section	Telefond Te	寶嘉		
Sub-sea TBM Tunnel - NB ID12.2m - S881         NB - Sub-sea TBM Tunnel - CDG with Saturation (Ch5550 to 5330 - 220m)         of 11         D: TMCLK DWPF 16W25             Planned Bar         Planned Bar         Planned Bar - Critical         Planned Milestone		Connection			Section		寶嘉 ragages ongKong	12-Feb-14         TMCLKDBJGEN/FRG98507         WYu           08-Apr-14         TMCLKDBJGEN/FRG98507 Rev.B         SPa           28-Aug-14         TMCLKDBJGEN/FRG98507 Rev.C         CLa	SPo WYu
Sub-sea TBM Tunnel - NB ID12.2m - S881         NB - Sub-sea TBM Tunnel - CDG with Saturation (Ch5550 to 5330 - 220m)         of 11         Planned Bar         ID: TMCLK DWPF 16W25	Northern ( Detailed W	Connection	ramme (Re	ev. F)		A member of the Bouygues Cor	ragages ongKong	12. Feb-14         TMCLKNDBJGENPRG88507         WYu           08. Apr-14         TMCLKNDBJGENPRG98507 Rev.B         SPa           28. Aug-14         TMCLKNDBJGENPRG98507 Rev.C         CLa           30-0c-15         TMCLKNDBJGENPRG98507 Rev.F         WYu	SPo WYu

Activity Name	Orig Dur	DWPF Start	DWPF Finish	% Comp	2016	2017	
NB - Sub-sea TBM Tunnel - CDG with Saturation (Ch5330 to 4950 - 380m)	30	02-Sep-16	02-Oct-16	100%	Oct Nov Dec NB - Sub-sea TBM Tunnel - CDG with S	Jan Feb Mar	Apr May
NB - Sub-sea TBM Tunnel - CDG with Saturation (Ch4950 to 4870 - 80m)	6	02-Oct-16	08-Oct-16	100%	NB - Sub-sea TBM Tuhnel - CDG with	·	·
NB - Sub-sea TBM Tunnel - ALLUVIUMS silty with Trimix (Ch4870 to 4750 - 120m)	8	08-Oct-16	16-Oct-16	100%	NB - Sub-sea TBM Tunnel - ALL	JVIUMS silty with Trimix (Ch4870 to 4750 -	120m)
NB - Sub-sea TBM Tunnel - ALLUVIUMS sandy with Trimix (Ch4750 to 4600 - 150m)	10	16-Oct-16	26-Oct-16	100%		ALLUVIUMS sandy with Trimix (Ch4750 to	1
NB - Sub-sea TBM Tunnel - ALLUVIUMS sandy with Trimix (Ch4600 to 4400 - 200m) NB - Sub-sea TBM Tunnel - ALLUVIUMS sandy with Trimix (Ch4400 to 4300 - 100m)	13	26-Oct-16 08-Nov-16	08-Nov-16 14-Nov-16	100%		nnel - ALLUVIUMS sandy with Trimix (Ch40 Tunnel - ALLUVIUMS sandy with Trimix (O	
NB - Sub-sea TBM Tunnel - ALLUVIUMS sandy with Trimix (Ch4300 to 4200 - 100m)	6	14-Nov-16	20-Nov-16	76%		M Tunnel - ALLUVIUMS sandy with Trimix	·
NB - Sub-sea TBM Tunnel - ALLUVIUMS silty with Trimix (Ch4200 to 3830 - 370m)	26	20-Nov-16	16-Dec-16	0%		Sub-sea TBM Tunnel - ALLUVIUMS silty w	
NB - Sub-sea TBM Tunnel - ALLUVIUMS sandy with Trimix (Ch3830 to 3710 - 120m) NB - Sub-sea TBM Tunnel - ALLUVIUMS silty with Trimix (Ch3710 to 3590 - 120m)	8	16-Dec-16 24-Dec-16	24-Dec-16 01-Jan-17	0%		NB - Sub-sea TBM Tunnel - ALLUVIUMS s NB - Sub-sea TBM Tunnel - ALLUVIUM	
NB - Sub-sea TBM fullifier - ALLOVIOWS sing with finitia (Cris7 to to 3599 - 12011) NB - Sub-sea TBM Tunnel - ALLUVIUMS sandy with Trimix (Ch3590 to 3460 - 130m)	8	01-Jan-17	01-Jan-17 09-Jan-17	0%	<b></b>	NB - Sub-sea TBM Tunnel - ALLOVION	
NB - Sub-sea TBM Tunnel - ALLUVIUMS silty with Trimix (Ch3460 to 3360 - 100m)	7	09-Jan-17	16-Jan-17	0%		NB - Sub-sea TBM Tunnel - ALL	UVIUMS silty with Trimix (C
NB - Sub-sea TBM Tunnel - ALLUVIUMS sandy with Trimix (Ch3360 to 3160 - 200m)	13	16-Jan-17	01-Feb-17	0%			el - ALLUVIUMS sandy with
NB - Sub-sea TBM Tunnel - ALLUVIUMS silty with Trimix (Ch3160 to 3060 - 100m) NB - Sub-sea TBM Tunnel - ALLUVIUMS silty with Trimix (Ch3060 to 2920 - 140m)	10	01-Feb-17 08-Feb-17	08-Feb-17 18-Feb-17	0%			Innel - ALLUVIUMS silty wi
NB - Sub-sea TBM Tunnel - ALLUVIUMS silty with Trimix (Ch2920 to 2820 - 100m)	7	18-Feb-17	25-Feb-17	0%			TBM Tunnel ALLUVIUMS
NB - Sub-sea TBM Tunnel - ALLUVIUMS sandy with Trimix (Ch2820 to 2720 - 100m)	6	25-Feb-17	03-Mar-17	0%	· · · · · · · · · · · · · · · · · · ·	NB - Sub-\$	ea TBM Tunnel - ALLUVIL
NB - Sub-sea TBM Tunnel - ALLUVIUMS silty with Trimix (Ch2720 to 2673 - 47m)	3	03-Mar-17	06-Mar-17	0%			-sea TBM Tuninel - ALLUVI
NB - Sub-sea TBM Tunnel - ALLUVIUMS silty with Trimix (Ch2673 to 2574 - 99m) NB - Sub-sea TBM Tunnel - ALLUVIUMS silty with Trimix (Ch2574 to 2512 - 62m)	7	06-Mar-17 13-Mar-17	13-Mar-17 17-Mar-17	0%			ub-sea TBM Tunnel - ALLI Sub-sea TBM Tunnel - AL
Sub-sea TBM Tunnel - SB ID12.2m - S882		To mar 17		0,0			
SB - Sub-sea TBM Tunnel - ALLUVIUMS sandy with Trimix (Ch4621 to 4421 - 200m)	13	12-Sep-16	25-Sep-16	100%	6B - Sub-sea TBM Tunnel - ALLUVIUMS s	andy with Trimix (Ch4621 to 4421 - 200m)	·
SB - Sub-sea TBM Tunnel - ALLUVIUMS silty with Trimix (Ch4421 to 4321 - 100m)	6	25-Sep-16	01-Oct-16	100%		6 silty with Trimix (Ch4421 to 4321 - 100m)	1
SB - Sub-sea TBM Tunnel - ALLUVIUMS sandy with Trimix (Ch4321 to 4221 - 100m) SB - Sub-sea TBM Tunnel - ALLUVIUMS silty with Trimix (Ch4221 to 3851 - 370m)	6 26	01-Oct-16 07-Oct-16	07-Oct-16 02-Nov-16	100%		MS sandy with Trimix (Ch4321 to 4221 - 1 I - ALLUVIUMS silty with Trimix (Ch4221 to	
SB - Sub-sea TBM Tunnel - ALLUVIUMS sandy with Trimix (Ch3851 to 3731 - 120m)	8	02-Nov-16	10-Nov-16	100%		unnel - ALLUVIUMS sandy with Trimix (Ch	ľ
SB - Sub-sea TBM Tunnel - ALLUVIUMS silty with Trimix (Ch3731 to 3611 - 120m)	8	10-Nov-16	18-Nov-16	100%	·	I Tunnel - ALLUVIUMS silty with Trimix (Cl	
SB - Sub-sea TBM Tunnel - ALLUVIUMS sandy with Trimix (Ch3611 to 3481 - 130m)	8	18-Nov-16	26-Nov-16	100%		TBM Tunnel - ALLUVIUMS sandy with Trin	1 I I I I I I I I I I I I I I I I I I I
SB - Sub-sea TBM Tunnel - ALLUVIUMS silty with Trimix (Ch3481 to 3381 - 100m) SB - Sub-sea TBM Tunnel - ALLUVIUMS sandy with Trimix (Ch3381 to 3181 - 200m)	7 13	26-Nov-16 03-Dec-16	03-Dec-16 16-Dec-16	100%		ea TBM Tunnel - ALLUVIUMS silty with Tri Sub-sea TBM Tunnel - ALLUVIUMS sand	
SB - Sub-sea TBM Tunnel - ALLUVIUMS saidy with Trimix (Ch3181 to 3081 - 2001) SB - Sub-sea TBM Tunnel - ALLUVIUMS silty with Trimix (Ch3181 to 3081 - 100m)	7	16-Dec-16	23-Dec-16	80%		B - Sub-sea TBM Tunnel - ALLUVIUMS sand	
SB - Sub-sea TBM Tunnel - ALLUVIUMS silty with Trimix (Ch3081 to 2941 - 140m)	10	23-Dec-16	02-Jan-17	0%		SB - Sub-sea TBM Tunnel - ALLUVIUN	IS silty with Trimix (Ch3081
SB - Sub-sea TBM Tunnel - ALLUVIUMS silty with Trimix (Ch2941 to 2841 - 100m)	7	02-Jan-17	09-Jan-17	0%		SB - Sub-sea TBM Tunnel - ALLUV	
SB - Sub-sea TBM Tunnel - ALLUVIUMS sandy with Trimix (Ch2841 to 2741 - 100m) SB - Sub-sea TBM Tunnel - ALLUVIUMS silty with Trimix (Ch2741 to 2694 - 47m)	6	09-Jan-17 15-Jan-17	15-Jan-17 18-Jan-17	0%		SB - Sub-sea TBM Tunnel - ALL SB - Sub-sea TBM Tunnel - ALL	5
SB - Sub-sea TBM Tunnel - ALLUVIUMS silty with Trimix (Ch2694 to 2595 - 99m)	7	18-Jan-17	25-Jan-17	0%		SB - Sub-sea TBM Tunnel -	
SB - Sub-sea TBM Tunnel - ALLUVIUMS silty with Trimix (Ch2595 to 2533 - 62m)	4	25-Jan-17	01-Feb-17	0%	· · · · · · · · · · · · · · · · · · ·	SB - Sub-sea TBM Tunn	el - ALLUVIUMS silty with T
SB - TBM Removal at Southern Landfall	60	01-Feb-17	02-Apr-17	0%			SB - TBM Removal at S
Sub-sea TBM Tunnel - NB - Precast Invert Gallery NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP39	3	02-Sep-16	05-Sep-16	100%	sea TBM Tunnel - Precast Invert Gallery -	Completion to CP39	
NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP38	8	07-Sep-16	15-Sep-16		Sub-sea TBM Tunnel - Precast Invert Gall		
NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP37	8	15-Sep-16	23-Sep-16	100%	IB - Sub-sea TBM Tunnel - Precast Invert (	allery - Completion to CP37	·
NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP36	8	23-Sep-16	01-Oct-16	100%	NB - Sub-sea TBM Tunnel - Precast Inv		
NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP35 NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP34	8	01-Oct-16 08-Oct-16	08-Oct-16 16-Oct-16	100%	NB - Sub-sea TBM Tunnel - Precast	nvert Gallery - Completion to CP35 ast Invert Gallery - Completion to CP34	
NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP33	4	16-Oct-16	20-Oct-16	100%		ecast Invert Gallery - Completion to CP34	
NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP32	6	20-Oct-16	26-Oct-16	100%	NB - Sub-sea'TBM Tunnel -	Precast Invert Gallery - Completion to CP3	2
NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP31	8	26-Oct-16	03-Nov-16	100%		el - Precast Invert Gallery - Completion to C	1
NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP30           NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP29	6	03-Nov-16 09-Nov-16	09-Nov-16 15-Nov-16	100%		nnel - Precast Invert Gallery - Completion Tunnel - Precast Invert Gallery - Completio	
NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP28	6	15-Nov-16	21-Nov-16	50%		BM Tunnel - Precast Invert Gallery - Complete	
NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP27	7	21-Nov-16	28-Nov-16	0%	NB - Sub-se	a TBM Tunnel - Precast Invert Gallery - Cor	mpletion to CP27
NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP26	7	28-Nov-16	05-Dec-16	0%		sea TBM Tunnel - Precast Invert Gallery -	
NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP25 NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP24	7	05-Dec-16 12-Dec-16	12-Dec-16 19-Dec-16	0%		ub-sea TBM Tunnel - Precast Invert Galler 3 - Sub-sea TBM Tunnel - Precast Invert Ga	
NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP23	6	19-Dec-16	25-Dec-16	0%		NB - Sub-sea TBM Tunnel - Precast Invert	
NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP22	7	25-Dec-16	01-Jan-17	0%		NB - Sub-sea TBM Tunnel - Precast Inv	
NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP21	5	01-Jan-17	06-Jan-17	0%		NB - Sub-sea TBM Tuhnel - Precast I	
NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP20 NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP19	8	06-Jan-17 14-Jan-17	14-Jan-17 20-Jan-17	0%		NB - Sub-sea TBM Tunnel - Preo NB - Sub-sea TBM Tunnel - Pr	
NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP18	6	20-Jan-17	26-Jan-17	0%		NB - Sub-sea TBM Tunnel -	
NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP17	7	26-Jan-17	05-Feb-17	0%		NB - Sub-sea TBM Tun	nel - Precast Invert Galler
NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP16	7	05-Feb-17	12-Feb-17	0%			Tunnel - Precast Invert Gal
NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP15 NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP14	7	12-Feb-17 19-Feb-17	19-Feb-17 26-Feb-17	0%			BM Tunnel - Precast Invert
NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP14	6	26-Feb-17	04-Mar-17	0%			a TBM Tunnel - Precast Inv sea TBM Tunnel - Precast I
NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP12	7	04-Mar-17	11-Mar-17	0%		·	ub-sea TBM Tunnel - Prec
NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP11	6	11-Mar-17	17-Mar-17	0%		NB T	Sub-sea TBM Tunnel - Pr
NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP10	6	17-Mar-17	23-Mar-17	0%		<b>N</b>	B - Sub-sea TBM Tunnel -
Sub-sea TBM Tunnel - SB - Precast Invert Gallery SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP32	6	15-Sep-16	21-Sep-16	100%	B - Sub-sea TBM Tunnel - Precast Invert G	ullery - Completion to CP32	
SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP31	10	21-Sep-16	01-Oct-16	100%	SB - Sub-sea TBM Tunnel - Precast Inventor		
SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP30	7	01-Oct-16	08-Oct-16	100%	SB - Sub-sea TBM Tunnel - Precast	nvert Gallery - Completion to CP30	
SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP29	6	08-Oct-16	14-Oct-16	100%	SB - Sub-sea TBM Tunnel - Preca		
SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP28	11	14-Oct-16	25-Oct-16	100%		Precast Invert Gallery - Completion to CP28	
SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP27 SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP26	6 11	25-Oct-16 31-Oct-16	31-Oct-16 11-Nov-16	100%	iiii	- Precast Invert Gallery - Completion to C	·
SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP25	6	11-Nov-16	17-Nov-16	100%	1 1	1 Tunnel - Precast Invert Gallery - Completion	1
SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP24	8	17-Nov-16	25-Nov-16	100%		TBM Tunnel - Precast Invert Gallery - Com	
SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP23	13	25-Nov-16	08-Dec-16	100%		b-sea TBM Tunnel - Precast Invert Gallery	
SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP22 SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP21	8	08-Dec-16 16-Dec-16	16-Dec-16 25-Dec-16	100%	<u></u>	Sub-sea TBM;Tunnel - Precast Invert Gall SB - Sub-sea TBM Tunnel - Precast Invert	
SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP20	7	25-Dec-16	01-Jan-17	100%		SB - Sub-sea TBM Tunnel - Precast Invert	i i
SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP19	7	01-Jan-17	08-Jan-17	100%		SB - Sub-sea TBM Tunnel - Precast	
SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP18	12	08-Jan-17	20-Jan-17	100%		SB - Sub-sea TBM Tunnel - Pr	
SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP17 SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP16	6	20-Jan-17	26-Jan-17	17% 0%		SB - Sub-sea TBM Tunnel	
	10	26-Jan-17	08-Feb-17	0%		SB - Sub-sea TBM Tu	innel - Precast Invert Galle
		Connection	Sub See	Tunnel	Section	Date Revision 12-Feb-14 TMCLK/DBJ/GEN/PRG/9850	
Page 6 of 11 TMCLK - N	Northern C	Jonnection	Sub-Sea	Turnici	Coolion	00 A	7 Rev. B SPa WYu
Project ID: TMCLK DWPF 16W25						08-Apr-14 TMCLKDBJGEN/PRG/9850 28-Aug-14 TMCLKDBJGEN/PRG/9850 30-Oct-15 TMCLKDBJGEN/PRG/9850	7 Rev.C CLa WYu
Project ID: TMCLK DWPF 16W25		orks Progr			た た た 理 語 Dragages	28-Aug-14 TMCLK/DBJGEN/PRG/9850	7 Rev.C CLa WYu
Project ID: TMCLK DWPF 16W25     Planned Bar - Critical       ▶     ▶ Planned Milestone       Data Date: 01-Jan-17     Progress bar	etailed W		ramme (Re	ev. F)	tereber of the Bourguess Construction group	22-Aug-14 TMCLKOBUGENPRG9850 30-Oc-15 TMCLKOBUGENPRG9850	7 Rev.C CLa WYu
Project ID: TMCLK DWPF 16W25	etailed W Three Mo	/orks Progr	ramme (Re ng Prograr	ev. F) mme	た た た 理 語 Dragages	22-Aug-14 TMCLKOBUGENPRG9850 30-Oc-15 TMCLKOBUGENPRG9850	7 Rev.C CLa WYu

/ Name	Orig	DWPF	DWPF	%						
	Dur	Start	Finish	Comp		2016 Nov	Dec	Jan	2017 Feb Mar Apr	May
SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP15	7	08-Feb-17	15-Feb-17	0%					SB - Sub-sea TBM Tunnel - Pre	cast Inve
SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP14	7	15-Feb-17	22-Feb-17	0%					SB - Sub-sea TBM Tunnel - I	Precast l
SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP13	13	22-Feb-17	07-Mar-17	0%					SB - Sub-sea TBM Tur	1
SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP12	8	07-Mar-17	15-Mar-17	0%					SB - Sub-sea TBM	
SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP11	11	15-Mar-17	26-Mar-17	0%					SB - Sub-sea	TBM Tu
Sub-sea Tunnel Cross Passage & Internal Structure Construction										
Sub-sea Tunnel Cross Passage				_						1
CP48 - ML03 - Ch6489										1
CP - Pipe Jacking Method - Break-out & Demobilization	11	22-Jul-16	02-Aug-16	100%	l - Break-out & Dem	nobilization			·	
CP - Remaining Internal Structure & Finishing	21	02-Aug-16	26-Aug-16	100%	g Internal Structure					1
CP47 - ML03 - Ch6390										1
CP - Remaining Internal Structure & Finishing	21	08-Aug-16	31-Aug-16	90%	ning Internal Structu	ure & Finish	ning			
CP46 - ML03 - Ch6292										
CP - Pipe Jacking Method - Setup & Assembly	23	07-Jul-16	03-Aug-16	100%	d - Setup & Aşsemb	bly				
CP - Pipe Jacking Method - Break-in & Excavation	10	03-Aug-16	13-Aug-16	100%	ethod - Break in & E	Excavation				
CP - Pipe Jacking Method - Break-out & Demobilization	12	13-Aug-16	25-Aug-16	100%	ing Method - Break-	-out & Dem	obilization			1
CP - Remaining Internal Structure & Finishing	21	25-Aug-16	20-Sep-16	0%	- Remaining Intern	nal Structur	e & Finishing	]		
CP45 - ML03 - Ch6193				1000/					·	
CP - Pipe Jacking Method - Setup & Assembly	23	12-Jul-16	08-Aug-16	100%	iod - Setup & Asser					-
CP - Pipe Jacking Method - Break-in & Excavation	10	08-Aug-16	18-Aug-16	100%	Method - Break-in &					
CP - Pipe Jacking Method - Break-out & Demobilization CP - Remaining Internal Structure & Finishing	12	18-Aug-16 30-Aug-16	30-Aug-16 24-Sep-16	100% 85%	cking Method - Brea					
	21	30-Aug-10	24-3ep-10	00 %	P - Remaining Inte	ernal Struct	ure & Finishi	ng		
CP44 - ML03 - Ch6095 CP - Pipe Jacking Method - Setup & Assembly	23	01-Aug-16	27-Aug-16	100%	king Method	In & Accord	bly			
CP - Pipe Jacking Method - Setup & Assembly CP - Pipe Jacking Method - Break-in & Excavation	10	27-Aug-16	27-Aug-16 06-Sep-16	100%	king Method - Setu		-			1
CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-out & Demobilization	10	06-Sep-16	18-Sep-16	100%	- Pipe Jacking Meth	i i		bilization		
CP - Remaining Internal Structure & Finishing	21	19-Sep-16	14-Oct-16	85%	CP - Rema					
CP43 - ML03 - Ch5996										1
CP - Pipe Jacking Method - Setup & Assembly	23	06-Aug-16	02-Sep-16	100%	lacking Method - Se	etup & Asse	embly		· · · · · · · · · · · · · · · · · · ·	
CP - Pipe Jacking Method - Break-in & Excavation	10	02-Sep-16	12-Sep-16	100%	ipe Jacking Method			n		
CP - Pipe Jacking Method - Break-out & Demobilization	12	12-Sep-16	24-Sep-16	100%	CP - Pipe Jacking M					
CP - Remaining Internal Structure & Finishing	21	24-Sep-16	21-Oct-16	60%				ure & Finishing		
CP42 - ML03 - Ch5898		<u> </u>								1
CP - Pipe Jacking Method - Setup & Assembly	23	24-Aug-16	21-Sep-16	100%	P - Pipe Jacking Met	thod - Setu	up & Assemb	 ly		
CP - Pipe Jacking Method - Break-in & Excavation	10	21-Sep-16	01-Oct-16	100%	CP - Pipe Jacking			-		
CP - Pipe Jacking Method - Break-out & Demobilization	12	01-Oct-16	13-Oct-16	100%	-	-		out & Demobil	ization	
CP - Remaining Internal Structure & Finishing	21	12-Oct-16	05-Nov-16	0%		CP - Remai	ining Interna	I Structure & F	Inishing	
CP41 - ML03 - Ch5800										
CP - Pipe Jacking Method - Setup & Assembly	23	29-Aug-16	24-Sep-16	100%	CP - Pipe Jacking M	lethod - Se	etup & Assen	bly		
CP - Piping Jacking Method - Break-in & Excavation	10	25-Sep-16	04-Oct-16	100%	CP - Piping Jac	king Metho	od - Break-in	& Excavation		1
CP - Pipe Jacking Method - Break-out & Demobilization	12	05-Oct-16	16-Oct-16	100%	CP - Pipe	Jacking	ethod - Brea	k-out & Demok	oilization	
CP - Remaining Internal Structure & Finishing	21	17-Oct-16	09-Nov-16	0%		CP - Rem	naining Interr	al Structure &	Finishing	
CP40 - ML03 - Ch5703										
CP - Pipe Jacking Method - Setup & Assembly	23	05-Sep-16	04-Oct-16	100%	CP - Pipe Jackir	ng Method	- Setup & A	ssembly		
CP - Piping Jacking Method - Break-in & Excavation	10	13-Oct-16	23-Oct-16	0%	ÇP - Pi	iping Jacki	ng Method -	Break-in & Ex	avation	
CP - Pipe Jacking Method - Break-out & Demobilization	12	23-Oct-16	04-Nov-16	0%		CP - Pipe Ja	acking Metho	d - Break-out	& Demobilization	
CP - Remaining Internal Structure & Finishing	21	04-Nov-16	29-Nov-16	0%			CP - Remain	ing Internal St	ructure & Finishing	
CP39 - ML03 - Ch5607									 	
CP - Pipe Jacking Method - Setup & Assembly	23	15-Sep-16	15-Oct-16	100%	CP - Pipe	Jacking Me	ethod - Setu	o & Assembly		
CP - Piping Jacking Method - Break-in & Excavation	10	17-Oct-16	26-Oct-16	0%	CP - I	Piping Jac	king Method	- Break-in & E	xcavation	
CP - Pipe Jacking Method - Break-out & Demobilization	12	27-Oct-16	07-Nov-16	0%		CP - Pipe	-		It & Demobilization	1
CP - Remaining Internal Structure & Finishing	21	08-Nov-16	01-Dec-16	0%		1	CP - Remai	ning Internal S	tructure & Finishing	
CP38 - ML03 - Ch5510	00	00 Car 10	00.0+10	000/					, , , , , , , , , , , , , , , , , , ,	
CP - Pipe Jacking Method - Setup & Assembly CP - Piping Jacking Method - Break-in & Excavation	23	23-Sep-16 04-Nov-16	22-Oct-16 14-Nov-16	80% 0%				etup & Assemb		
CP - Pipe Jacking Method - Break-out & Demobilization	10	14-Nov-16	26-Nov-16	0%		i			ak-in & Excavation Break-out & Demobilization	
CP - Remaining Internal Structure & Finishing	21	26-Nov-16	21-Dec-16	0%	-			, e	Internal Structure & Finishing	1
CP37 - ML03 - Ch5413	21	20-110-10	21-Dec-10	078			Un Of	- nemaining		
CP - Pipe Jacking Method - Setup & Assembly	23	03-Oct-16	29-Oct-16	10%		- Pipe lack	ring Method	- Setup & Asse		
CP - Piping Jacking Method - Break-in & Excavation	10	08-Nov-16	17-Nov-16	0%			-		eniory eak-in & Excavation	
CP - Pipe Jacking Method - Break-out & Demobilization	10	18-Nov-16	29-Nov-16	0%		i i		-	- Break-out & Demobilization	
CP - Remaining Internal Structure & Finishing	21	30-Nov-16	23-Dec-16	0%		5	-	-	Internal Structure & Finishing	
CP36 - ML03 - Ch5315								o.naming		
CP - Pipe Jacking Method - Setup & Assembly	23	08-Oct-16	05-Nov-16	10%		CP - Pine I	acking Meth	pd - Setup & A	Issembly	
CP - Piping Jacking Method - Break-in & Excavation	10	26-Nov-16	06-Dec-16	0%			-		thod - Break-in & Excavation	
CP - Pipe Jacking Method - Break-out & Demobilization	12	06-Dec-16	18-Dec-16	0%					Method - Break-out & Demobilization	
CP - Remaining Internal Structure & Finishing	21	19-Dec-16	14-Jan-17	0%					Remaining Internal Structure & Finishing	
CP35 - ML03 - Ch5217				1		-		-		
CP - Pipe Jacking Method - Setup & Assembly	23	17-Oct-16	11-Nov-16	10%		CP - Pip	e Jacking Me	ethod - Setup	& Assembly	
CP - Piping Jacking Method - Break-in & Excavation	10	30-Nov-16	09-Dec-16	0%			CP - Pip	ing Jacking M	ethod - Break-in & Excavation	-
CP - Pipe Jacking Method - Break-out & Demobilization	12	10-Dec-16	21-Dec-16	0%				P - Pipe Jackin	g Method - Break-out & Demobilization	
CP - Remaining Internal Structure & Finishing	21	22-Dec-16	18-Jan-17	0%				CP	- Remaining Internal Structure & Finishing	ģ
CP34 - ML03 - Ch5118					L		-			L
CP - Pipe Jacking Method - Setup & Assembly	23	20-Oct-16	16-Nov-16	0%		CP P	Pipe Jacking	Method - Setu	p & Assembly	
CP - Piping Jacking Method - Break-in & Excavation	10	18-Dec-16	28-Dec-16	0%		-			acking Method - Break-in & Excavation	
CP - Pipe Jacking Method - Break-out & Demobilization	12	28-Dec-16	09-Jan-17	0%			· · · ·	CP - Pip	e Jacking Method - Break-out & Demobil	1
CP - Remaining Internal Structure & Finishing	21	09-Jan-17	08-Feb-17	0%					CP - Remaining Internal Structure &	& Finish
CP33 - ML03 - Ch5020										
CP - Pipe Jacking Method - Setup & Assembly	23	26-Oct-16	22-Nov-16	0%		<b>O</b> P	- Pipe Jackiı	-	etup & Assembly	
CP - Piping Jacking Method - Break-in & Excavation	10	22-Dec-16	31-Dec-16	0%			~~		Jacking Method - Break-in & Excavation	-
CP - Pipe Jacking Method - Break-out & Demobilization	12	01-Jan-17	12-Jan-17	0%				CP - P	ipe Jacking Method - Break-out & Demok	i.
CP - Remaining Internal Structure & Finishing	21	13-Jan-17	13-Feb-17	0%					CP - Remaining Internal Structur	e & Fini
CP32 - ML03 - Ch4921					·					
CP - Pipe Jacking Method - Setup & Assembly	23	03-Nov-16	30-Nov-16	0%			CP - Pipe Ja		- Setup & Assembly	1
CP - Piping Jacking Method - Break-in & Excavation	10	09-Jan-17	19-Jan-17	0%				CP	- Piping Jacking Method - Break-in & Exc	
CP - Pipe Jacking Method - Break-out & Demobilization	12	19-Jan-17	31-Jan-17	0%					CP - Pipe Jacking Method - Break-out	& Demo
7 of 11 Planned Bar TMCL	K - Northern C	Connection	Sub-Sec	Tunnal	Section			L	Date Revision Checked	
7 OF 11 Planned Bar I MCL	IX - INORINERN (	Johnection	Sub-Sea	runnel	Section				12-Feb-14 TMCLK/DBJGEN/PRG/98507 WYu 08-Apr-14 TMCLK/DBJGEN/PRG/98507 Rev.B SPa	SPo WYu
						「 香 雪 雪	露		28-Aug-14 TMCLK/DBJGEN/PRG/98507 Rev.C CLa 30-Oct-15 TMCLK/DBJGEN/PRG/98507 Rev.F WYu	WYu
t ID: TMCLK DWPF 16W25	Detailed W	orks Proor	amme (Re	ev. F)						
t ID: TMCLK DWPF 16W25	Detailed W	orks Progr	amme (Re	ev. F)		📕 🖌 Drag	ミカロ Jages JKong	BOUYGUES TRAVAUX PUBLICS	· ·	
t ID: TMCLK DWPF 16W25		/orks Progr onths Rollir			A member of the	Drag Hong Bouygues Construct	ages 🛛 🗖	BOUYGUES TRAWAUX PUBLICS		

Name	Orig Dur		DWPF Finish	% Comp	2016	2017
CP - Remaining Internal Structure & Finishing	21	04-Feb-17	28-Feb-17	0%	Oct Nov Dec	Jan Feb Mar Apr M CP - Remaining Internal Structur
_CP31 - ML03 - Ch4823						
CP - Pipe Jacking Method - Setup & Assembly	23	09-Nov-16	06-Dec-16	0%	CP - Pip	e Jacking Method - Setup & Assembly
CP - Piping Jacking Method - Break-in & Excavation	10	13-Jan-17	22-Jan-17 03-Feb-17	0%		CP - Piping Jacking Method - Break-in & Excavati
CP - Pipe Jacking Method - Break-out & Demobilization CP - Remaining Internal Structure & Finishing	12 21	23-Jan-17 04-Feb-17	28-Feb-17	0%		CP - Pipe Jacking Method - Break-out & De
CP30 - ML03 - Ch4724	21	0410017	2010017	078		
CP - Pipe Jacking Method - Setup & Assembly	23	15-Nov-16	12-Dec-16	0%	CP-F	Pipe Jacking Method - Setup & Assembly
CP - Piping Jacking Method - Break-in & Excavation	10	31-Jan-17	10-Feb-17	0%		CP - Piping Jacking Method - Break-in &
CP - Pipe Jacking Method - Break-out & Demobilization	12	10-Feb-17	22-Feb-17	0%		CP - Pipe Jacking Method - Break-
CP - Remaining Internal Structure & Finishing	21	22-Feb-17	18-Mar-17	0%		CP - Remaining Interna
CP29 - ML03 - Ch4626 CP - Pipe Jacking Method - Setup & Assembly	23	21-Nov-16	17-Dec-16	0%		
CP - Piping Jacking Method - Break-in & Excavation	10	04-Feb-17	13-Feb-17	0%		Pipe Jacking Method - Setup & Assembly
CP - Pipe Jacking Method - Break-out & Demobilization	12	14-Feb-17	25-Feb-17	0%		CP - Pipe Jacking Method - Break
CP - Remaining Internal Structure & Finishing	21	27-Feb-17	22-Mar-17	0%		CP - Remaining Interr
CP28 - ML03 - Ch4527						
CP - Pipe Jacking Method - Setup & Assembly	23	28-Nov-16	24-Dec-16	0%		CP - Pipe Jacking Method - Setup & Assembly
CP - Piping Jacking Method - Break-in & Excavation	10	22-Feb-17	04-Mar-17	0%		CP - Piping Jacking Method - I
CP - Pipe Jacking Method - Break-out & Demobilization	12	04-Mar-17	16-Mar-17	0%		CP - Pipe Jacking Metho
CP - Remaining Internal Structure & Finishing	21	16-Mar-17	11-Apr-17	0%		CP - Remain
CP27 - ML03 - Ch4429 CP - Pipe Jacking Method - Setup & Assembly	23	05-Dec-16	04-Jan-17	0%		
CP - Piping Jacking Method - Break-in & Excavation	10	26-Feb-17	04-Jan-17 07-Mar-17	0%		CP - Pipe Jacking Method - Setup & Assembly CP - Piping Jacking Method
CP - Pipe Jacking Method - Break-out & Demobilization	10	08-Mar-17	19-Mar-17	0%		CP - Piping Jacking Method
CP26 - ML03 - Ch4330						
CP - Pipe Jacking Method - Setup & Assembly	23	12-Dec-16	11-Jan-17	0%		CP - Pipe Jacking Method - Setup & Assembly
CP - Piping Jacking Method - Break-in & Excavation	10	16-Mar-17	26-Mar-17	0%		CP - Piping Jacking
_CP25 - ML03 - Ch4232						
CP - Pipe Jacking Method - Setup & Assembly	23	19-Dec-16	18-Jan-17	0%		CP - Pipe Jacking Method - Setup & Assembly
CP24 - ML03 - Ch4133		00.5		<b>8</b> 51		
CP - Pipe Jacking Method - Setup & Assembly CP23 - ML03 - Ch4035	23	28-Dec-16	24-Jan-17	0%		CP - Pipe Jacking Method - Setup & Assembly
CP-23 - ML03 - Ch4035 CP - Pipe Jacking Method - Setup & Assembly	23	03-Jan-17	04-Feb-17	0%		CP - Pipe Jacking Method - Setup & Assem
CP22 - ML03 - Ch3936	20	00 001 17	0110017	0,0		
CP - Pipe Jacking Method - Setup & Assembly	23	06-Jan-17	09-Feb-17	0%		CP - Pipe Jacking Method - Setup & Asse
CP21 - ML03 - Ch3838						
CP - Pipe Jacking Method - Setup & Assembly	23	14-Jan-17	17-Feb-17	0%		CP - Pipe Jacking Method - Setup & A
_CP20 - ML03 - Ch3739						
CP - Pipe Jacking Method - Setup & Assembly	23	20-Jan-17	23-Feb-17	0%		CP - Pipe Jacking Method - Setup
_CP19 - ML03 - Ch3641			1			
CP - Pipe Jacking Method - Setup & Assembly	23	26-Jan-17	01-Mar-17	0%	· · · · · · · · · · · · · · · · · · ·	CP - Pipe Jacking Method - Set
CP18 - ML03 - Ch3542 CP - Pipe Jacking Method - Setup & Assembly	23	06-Feb-17	03-Mar-17	0%		CP - Pipe Jacking Method - Se
CP17 - ML03 - Ch3444		0010011		0,0		
CP - Pipe Jacking Method - Setup & Assembly	23	13-Feb-17	10-Mar-17	0%		CP - Pipe Jacking Method -
CP16 - ML03 - Ch3345						
CP - Pipe Jacking Method - Setup & Assembly	23	20-Feb-17	17-Mar-17	0%		CP + Pipe Jacking Metho
_CP15 - ML03 - Ch3247						
CP - Pipe Jacking Method - Setup & Assembly	23	27-Feb-17	24-Mar-17	0%		CP - Pipe Jacking Me
CP14 - ML03 - Ch3148		04 May 47	04 14 47	001		
CP - Pipe Jacking Method - Setup & Assembly CP13 - ML03 - Ch3050	23	04-Mar-17	31-Mar-17	0%		CP - Pipe Jacking
CP - Pipe Jacking Method - Setup & Assembly	23	11-Mar-17	08-Apr-17	0%		CP - Pipe Jack
CP12 - ML03 - Ch2951						
CP - Pipe Jacking Method - Setup & Assembly	23	17-Mar-17	18-Apr-17	0%		CP-Pipe
Sub-sea TBM Tunnel - NB - Remaining Internal Structure						
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP44	5	19-Sep-16	23-Sep-16	0%	B - Sub-sea TBM Tunnel - Corbel & Cable	e Trough - Completion to CP44
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP43	5	24-Sep-16	29-Sep-16	0%	NB - Sub-sea TBM Tunnel - Corbel & Ca	ble Trough - Completion to CP43
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP42	5	12-Oct-16	17-Oct-16	0%		rbel & Cable Trough - Completion to CP42
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP41	5	17-Oct-16	22-Oct-16	0%	i i	Corbel & Cable Trough - Completion to CP41
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP40	5	04-Nov-16	09-Nov-16 14-Nov-16	0%	·	unnel - Corbel & Cable Trough - Completion to CP40
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP39 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP38	5	09-Nov-16 26-Nov-16	14-Nov-16 01-Dec-16	0%		I Tunnel - Corbel & Cable Trough - Completion to CP39 sea TBM Tunnel - Corbel & Cable Trough - Completion to CP38
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP37	5	01-Dec-16	01-Dec-16 06-Dec-16	0%		sea TBM Tunnel - Corbel & Cable Trough - Completion to CP38 b-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP38
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP36	5	19-Dec-16	23-Dec-16	0%		NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP35	5	24-Dec-16	28-Dec-16	0%		NB - Sub-sed TBM Tunnel - Corbel & Cable Trough - Comple
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP34	3	09-Jan-17	11-Jan-17	0%		NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - C
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP33	5	12-Jan-17	16-Jan-17	0%		NB - Sub-sea TBM Tunnel - Corbel & Cable Trough
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP32	5	04-Feb-17	08-Feb-17	0%		NB - Sub-sea TBM Tunnel - Corbel & Cab
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP31	5	09-Feb-17	13-Feb-17	0%		NB - Sub-sea TBM Tunnel - Corbel & C
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP30	5	22-Feb-17	27-Feb-17	0%		NB - Sub-sea TBM Tunnel - Cort
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP29	5	27-Feb-17	04-Mar-17	0%		NB - Sub-sea TBM Tunnel - Co
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP28	5	16-Mar-17	21-Mar-17	0%	TRANSIE AND TRANSIE OLIVID State	NB - Sub-sea TBM Tur
NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP44 NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP43	4	24-Sep-16 29-Sep-16	27-Sep-16 03-Oct-16	0%	NB - Sub-sea TBM Tunnel - OHVD Slab i NB - Sub-sea TBM Tunnel - OHVD Sla	
NB - Sub-sea TBM Tunnel - OHVD Slab Installation - Completion to CP43	4	17-Oct-16	21-Oct-16	0%		HVD Slab installation - Completion to CP43
NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP41	4	22-Oct-16	26-Oct-16	0%		OHVD Slab installation - Completion to CP41
NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP40	4	09-Nov-16	13-Nov-16	0%		Tunnel - OHVD Slab installation - Completion to CP40
NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP39	4	14-Nov-16	18-Nov-16	0%	NB - Sub-sea TB	M Tunnel - OHVD Slab installation - Completion to CP39
NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP38	4	01-Dec-16	05-Dec-16	0%		o-sea TBM Tunnel - OHVD Slab installation - Completion to CP3
NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP37	4	06-Dec-16	10-Dec-16	0%	NB - S	ub-sea TBM Tunnel - OHVD Slab installation - Completion to C
NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP36	4	24-Dec-16	27-Dec-16	0%		NB - Sub-sea TBM Tunnel - OHVD Slab installation - Complet
NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP35	3	29-Dec-16	31-Dec-16	0%		NB - Sub-sea TBM Tunnel - OHVD Slab installation - Compl
NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP34 NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP33	6 5	12-Jan-17 18-Jan-17	17-Jan-17 22-Jan-17	0%		NB - Sub-sea TBM Tunnel - OHVD Slab installation
NB - Sub-sea TBM Tunnel - OHVD Stab Installation - Completion to CP33 NB - Sub-sea TBM Tunnel - OHVD Stab installation - Completion to CP32	5	09-Feb-17	12-Jan-17	0%		<ul> <li>NB - Sub-sea TBM Tunnel - OHVD Slab installation</li> <li>NB - Sub-sea TBM Tunnel - OHVD Slab</li> </ul>
	4	00100-17	1210011	0 /0		
	- Northern	Connection	n Sub-Sea	Tunnel	Section	Date         Revision         Checked         A           12-Feb-14         TMCLK/DBJGEN/PRG/98507         WYu         SPo
of 11 Planned Bar TMCLK						08-Apr-14 TMCLK/DBJGEN/PRG/98507 Rev.B SPa WYu
Planned Bar - Critical					香卖士	28-Aug-14 TMCLK/DBJGEN/PRG/98507 Rev.C CLa WYu
Planned Bar - Critical	Detailed V	Vorks Prog	ramme (Re	ev. F)	● <sup>番</sup> 寶嘉 Dragages	
D: TMCLK DWPF 16W25		Vorks Prog Ionths Roll			teneted the Europyce Construction group	28-Aug-14         TMCLK/DBJGEN/PRG/88507 Rev.C         CLa         WYu           30-Od:15         TMCLK/DBJGEN/PRG/88507 Rev.F         WYu

	Orig Dur	Start	Finish	Comp			2017
NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP31	4	14-Feb-17	17-Feb-17	0%	Oct Nov Dec	Jan	Feb Mar Apr May NB - Sub-sea TBM Tunnel - OHVD Slab ins
3 - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP30	4	27-Feb-17	03-Mar-17	0%			NB - Sub-sea TBM Tunnel - OHVD S
B - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP29	4	04-Mar-17	08-Mar-17	0%			NB - Sub-sea TBM Tuhnel - OHVI
- Sub-sea TBM Tunnel - Fire Proofing - Completion to CP44	4	28-Sep-16	01-Oct-16	0%	NB - Sub-sea TBM Tunnel - Fire Proofin	g - Completioı	n to CP44
- Sub-sea TBM Tunnel - Fire Proofing - Completion to CP43	4	03-Oct-16	07-Oct-16	0%	NB - Sub-sea TBM Tunnel - Fire Prod	fing - Comple	tion to CP43
- Sub-sea TBM Tunnel - Fire Proofing - Completion to CP42	4	21-Oct-16	25-Oct-16	0%	NB - Sub-sea TBM Tunnel - I	ire Proofing -	Completion to CP42
- Sub-sea TBM Tunnel - Fire Proofing - Completion to CP41	4	26-Oct-16	30-Oct-16	0%	NB - Sub-sea TBM Tunnel	- Fire Proofin	g - Completion to CP41
- Sub-sea TBM Tunnel - Fire Proofing - Completion to CP40	4	13-Nov-16	17-Nov-16	0%	NB - Sub-sea TB	1 Tunnel - Fire	Proofing - Completion to CP40
- Sub-sea TBM Tunnel - Fire Proofing - Completion to CP39	4	18-Nov-16	22-Nov-16	0%	NB - Sub-sea T	BM Tunnel - Fi	ire Proofing - Completion to CP39
3 - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP38	4	05-Dec-16	09-Dec-16	0%	NB - Su	b-sea TBM Tu	nnel - Fire Proofing - Completion to CP38
3 - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP37	4	10-Dec-16	14-Dec-16	0%	NB -	Sub-sea TBM	Tunnel - Fire Proofing - Completion to CP37
B - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP36	4	28-Dec-16	31-Dec-16	0%		NB - Sub-se	ea TBM Tunnel - Fire Proofing - Completion to CP36
B - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP35	9	01-Jan-17	09-Jan-17	0%		NB - Su	b-sea TBM Tunnel - Fire Proofing - Completion to Cl
B - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP34	3	18-Jan-17	20-Jan-17	0%		_	B - Sub-sea TBM Tunnel - Fire Proofing - Completior
IB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP33	1	23-Jan-17	23-Jan-17	0%		۹ <b>ا</b>	NB - Sub-sea TBM Tunnel - Fire Proofing - Completion
IB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP32	3	13-Feb-17	15-Feb-17	0%	_		NB- Sub-sea TBM Tunnel - Fire Proofing
IB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP31	3	18-Feb-17	20-Feb-17	0%	_		NB - Sub-sea TBM Tunnel - Fire Proofin
B - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP30	3	03-Mar-17	06-Mar-17	0%			NB - Sub-sea TBM Tunnel - Fire F
B - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP29	3	08-Mar-17	11-Mar-17	0%	_		NB - Sub-sea TBM Tunnel - Fire
B - Sub-sea TBM Tunnel - Road Level Fire Proofing	334	17-Mar-17	10-May-18	0%			
b-sea TBM Tunnel - SB - Remaining Internal Structure		10.0	00.0	00/			
B - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP44	5	19-Sep-16	23-Sep-16	0%	B - Sub-sea TBM Tunnel - Corbel & Cable	Ŭ	i i i
B - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP43	5	24-Sep-16	29-Sep-16	0%	SB - Sub-sea TBM Tunnel- Corbel & Ca	, v	
B - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP42	5	12-Oct-16	17-Oct-16	0%	SB Sub-sea TBM Tunnel - Corl		
B - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP41	5	17-Oct-16	22-Oct-16	0%	SB - Sub-sea TBM Tunnel - C		······································
B - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP40	5	04-Nov-16 09-Nov-16	09-Nov-16 14-Nov-16	0%			& Cable Trough - Completion to CP40
B - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP39 B - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP38	5	26-Nov-16	01-Dec-16	0%	- i <u> </u>		el & Cable Trough - Completion to CP39
B - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP37	5	01-Dec-16	01-Dec-16	0%			el - Corbel & Cable Trough - Completion to CP38
	5	19-Dec-16	23-Dec-16	0%			nel - Corbel & Cable Trough - Completion to CP37
B - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP36 B - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP35	5	24-Dec-16	23-Dec-16 28-Dec-16	0%			BM Tunnel - Corbel & Cable Trough - Completion to
B - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP34	5	09-Jan-17	13-Jan-17	0%			a TBM Tunne! - Corbel & Cable Trough - Completior Sub-sea TBM Tunnel - Corbel & Cable Trough - Cor
B - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP33	5	14-Jan-17	18-Jan-17	0%			i i i i
	5	04-Feb-17	08-Feb-17	0%	-	<b>5</b> 8	Sub-sea TBM Tunnel - Corbel & Cable Trough - C
3 - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP32 3 - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP31	5	04-Feb-17 09-Feb-17	13-Feb-17	0%	-		<ul> <li>SB - Sub-sea TBM Tunnel - Corbel &amp; Cable T</li> <li>SB - Sub-sea TBM Tunnel - Corbel &amp; Cable</li> </ul>
B - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP30	5	22-Feb-17	27-Feb-17	0%			SB - Sub-sea TBM Tunnel - Corbel & Cabl
3 - Sub-sea TBM fullifier - Corbel & Cable Trough - Completion to CP 30	5	27-Feb-17	04-Mar-17	0%	-		
3 - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP29	5	16-Mar-17	21-Mar-17	0%			SB - Sub-sea TBM Tunnel - Corbe
B - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP44	5	24-Sep-16	28-Sep-16	0%		notallation C	
B - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP44	5	29-Sep-16	04-Oct-16	0%	SB - Sub-sea TBM Tunnel - OHVD Slab i		
3 - Sub-sea TBM Tunnel - OHVD Stab Installation - Completion to CP42	5	17-Oct-16	22-Oct-16	0%	SB - Sub-sea TBM Tunnel - OHVD Sla		
3 - Sub-sea TBM Tunnel - OHVD Stab installation - Completion to CP41	5	22-Oct-16	27-Oct-16	0%	SB - Sub-sea TBM Tunnel - O		nstallation - Completion to CP41
B - Sub-sea TBM Tunnel - OHVD Slab Installation - Completion to CP40	5	09-Nov-16	14-Nov-16	0%			D Slab installation - Completion to CP41
B - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP39	5	14-Nov-16	19-Nov-16	0%			IVD Slab installation - Completion to CP40
B - Sub-sea TBM Tunnel - OHVD Slab Installation - Completion to CP38	5	01-Dec-16	06-Dec-16	0%			nel - OHVD Slab installation - Completion to CP39
B - Sub-sea TBM Tunnel - OHVD Slab Installation - Completion to CP37	5	06-Dec-16	11-Dec-16	0%	+		unnel - OHVD Slab Installation - Completion to CP3
B - Sub-sea TBM Tunnel - OHVD Slab Installation - Completion to CP36	5	24-Dec-16	28-Dec-16	0%			a TBM Tunnel - OHVD Slab Installation - Completion to CF3
B - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP35	5	29-Dec-16	02-Jan-17	0%			sea TBM Tunnel - OHVD Slab Installation - Completion
B - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP34	3	14-Jan-17	16-Jan-17	0%	-		- Sub-sea TBM Tunnel - OHVD Slab installation - Complete
B - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP33	3	19-Jan-17	21-Jan-17	0%	-	_	B - Sub-sea TBM Tunnel - OHVD Slab installation - 0
B - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP32	5	09-Feb-17	13-Feb-17	0%			SB - Sub-sea TBM Tunnel - OHVD Slab ins
B - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP31	5	14-Feb-17	18-Feb-17	0%	-		SB - Sub-sea TBM Tunnel - OHVD Slab
B - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP30	5	27-Feb-17	04-Mar-17	0%	-		SB - Sub-sea TBM Tunnel - OHVE
B - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP29	5	04-Mar-17	09-Mar-17	0%			BB - Sub-sea TBM Tunnel - OH
B - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP44	5	29-Sep-16	03-Oct-16	0%	SB - Sub-sea TBM Tunnel - Fire Proofi	na - Completic	
B - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP43	5	04-Oct-16	09-Oct-16	0%	SB - Sub-sea TBM Tunnel - Fire Pro		
B - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP42	5	22-Oct-16	27-Oct-16	0%	SB - Sub-sea TBM Tunnel -	· ·	i i i i
B - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP41	5	27-Oct-16	01-Nov-16	0%	SB - Sub-sea TBM Tunne	, v	
B - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP40	5	14-Nov-16	19-Nov-16	0%			e Proofing - Completion to CP40
B - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP39	5	19-Nov-16	24-Nov-16	0%			Fire Proofing - Completion to CP39
B - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP38	5	06-Dec-16	11-Dec-16	0%	······		unnel - Fire Proofing - Completion to CP38
B - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP37	5	11-Dec-16	16-Dec-16	0%	- i i 🔨		I Tunnel - Fire Proofing - Completion to CP37
B - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP36	5	29-Dec-16	02-Jan-17	0%			sea TBM Tunnel - Fire Proofing - Completion to CP:
B - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP35	7	03-Jan-17	02 Jan 17	0%			b-sea TBM Tunnel - Fire Proofing - Completion to CF
SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP34	3	17-Jan-17	19-Jan-17	0%	1		3 - Sub-sea TBM Tunnel - Fire Proofing - Completion to C
	2	22-Jan-17	23-Jan-17	0%			3B - Sub-sea TBM Tunnel - Fire Proofing - Complete
SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP33	3	14-Feb-17	16-Feb-17	0%	-		SB - Sub-sea TBM Tunnel - Fire Proofing - Complete
	-	19-Feb-17	22-Feb-17	0%			SB - Sub-sea TBM Tunnel - Fire Prooin
SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP32	4						
SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP32 SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP31	4	04-Mar-17	08-Mar-17	()%			
SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP33 SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP32 SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP31 SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP30 SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP29	4	04-Mar-17 09-Mar-17	08-Mar-17 13-Mar-17	0%			SB - Sub-sea TBM Tunnel - Fire
SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP32 SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP31 SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP30 SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP29	4	09-Mar-17	13-Mar-17	0%			
SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP32 SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP31	4						SB - Sub-sea TBM Tunnel - Fre

South Cut & Cover Tunnel										1			1
Design Submission										1			
(E2) DDA for South C&C Bo	ox & Approach Ramp									1			
Review & Comment by JV			18	09-Dec-14	31-Dec-14	88%							
Designer prepare DDA			10	02-Jan-15	13-Jan-15	0%				-			
Formal Submission of DDA to ICE/ IF	Ps		0		13-Jan-15	0%				1			
Advanced Submission to SO			0		13-Jan-15	0%							
IPs/SO's Advance Comments/ ICE (	Comments		28	14-Jan-15	10-Feb-15	0%	1						i
Comments Received			0		10-Feb-15	0%						·	
Designer to Reply RtC + Update Sub	mission		21	11-Feb-15	10-Mar-15	0%							
Method Statement Submiss	ion									-			
	truction Methodology of C&C Tun	nels											i
Preparation Method Statement for C	&C Tunnels		25	28-Mar-15	30-Apr-15	0%	1			1			1
Submit Method Statement to SO			0		30-Apr-15	0%						·	
SO Reviews & Comments			28	01-May-15	28-May-15	0%							
					<u> </u>			· · · · ·		Date	Revision	Checked	Approved
Page 9 of 11 Project ID: TMCLK DWPF 16W25 Data Date: 01-Jan-17	<ul> <li>Planned Bar</li> <li>Planned Bar - Critical</li> <li>Planned Milestone</li> <li>Progress bar</li> <li>Progress Milestone</li> </ul>		iled W	Jonnection /orks Progr onths Rollir	amme (Re	v. F)	A member of the Bourygu	香寶嘉 Dragages HongKong es Construction group gues Joint Venture 寶嘉 - 布存	BOUYGUES TRAMAUX PUBLICS 衣格聯登	12-Feb-14 08-Apr-14 28-Aug-14 30-Oct-15	TMCLKDBJGEN/PRG/98507 TMCLKDBJGEN/PRG/98507 TMCLKDBJGEN/PRG/98507 TMCLKDBJGEN/PRG/98507	'Rev.B SPa 'Rev.C CLa	SPo WYu WYu
			Prog	ress as of	01-Jan-17								

ty Name			Orig Dur	DWPF Start	DWPF Finish	% Comp		2016			2017		
Re-submission			18	29-May-15	18-Jun-15	0%	Oct	Nov Dec	Jan	Feb	Mar	Apr	May
Construction					í <b>.</b>								
C&C Tunnel - 2nd 85m - Tunnel Structure			83	14-Jun-16	20-Sep-16	0%		d 85m - Tunnel Structure		   	   	, L	
C&C Tunnel - 2nd 85m - Backfilling C&C Tunnel - 3rd 85m - Tunnel Structure			9 83	21-Sep-16 26-Jul-16	30-Sep-16 02-Nov-16	0%	C&C lunnel	- 2nd 85m - Backfilling C&C Tunnel - 3rd 85m - 1	Tunnol Structu	-			
C&C Tunnel - 3rd 85m - Backfilling			15	03-Nov-16	19-Nov-16	0%		C&C Iumer - Sid 85m -		1		1	
C&C Tunnel - 4th 85m - Tunnel Structure			83	05-Sep-16	13-Dec-16	0%		i i	Tunnel - 4th 85		tructure	1 1	
C&C Tunnel - 4th 85m - Backfilling			14	14-Dec-16	31-Dec-16	0%			C&C Tunne	l - 4th 85m - I	3 ackfilling	, , , ,	     
C&C Tunnel - 5th 85m - Excavation by vertical mean			44	22-Aug-16	14-Oct-16	0%	C&C	Funnel - 5th 85m - Excavatio					
C&C Tunnel - 5th 85m - Tunnel Structure			83	19-Oct-16	26-Jan-17	0%				C&C Tunnel	- 5th 85m - Tur		
C&C Tunnel - 5th 85m - Backfilling C&C Tunnel - 6th 85m - Excavation by ramp			19 27	27-Jan-17 22-Aug-16	24-Feb-17 22-Sep-16	0%	RC Tunnol 6t	h 85m - E xcavation by ramp			C&C Tunnel -	_5th 85m - Ba	ackfilling
C&C Tunnel - 6th 85m - Excavation by vertical mean			52	23-Sep-16	24-Nov-16	0%		C&C Tunnel -		vation by ver	tical mean	1	
C&C Tunnel - 6th 85m - Tunnel Structure			83	29-Nov-16	15-Mar-17	0%	1					Tunnel - 6th 8	8 <mark>5m - Tunr</mark>
C&C Tunnel - 6th 85m - Backfilling			20	16-Mar-17	08-Apr-17	0%			•	1     		C&C T	unnel - 6th
C&C Tunnel - 7th 152m - Excavation by ramp			15	03-Nov-16	19-Nov-16	0%		C&C Tunnel - 7th	152m - Excav	vation by ram	p		
C&C Tunnel - 7th 67m - Excavation by vertical mean			42	21-Nov-16	11-Jan-17	0%	_		C&CT	iunnel - 7th 6	7m - Excavatio	1	1
C&C Tunnel - 7th 67m - Tunnel Structure			78	12-Jan-17	24-Apr-17 28-Feb-17	0%						+	C&C Tunr
C&C Tunnel - 8th 85m - E xcavation by vertical mean C&C Tunnel - 8th 85m - Tunnel Structure			42 88	04-Jan-17 01-Mar-17	19-Jun-17	0%				1	C&C lunnel	l - 8th 85m - E	= xcavation
Intermediate Slab			164	20-Dec-16	18-Jul-17	0%	-			1			i
South Retrieval Shaft										1 1	1	- 	1
Design Submission						_				, , , ,	     ±	;   ±	     
(F4) Gantry Crane Support/Foundations	in Southern Landfall			1	í.	1				1		1	
Preparation of IFA Gantry Crane / Foundation			18	27-Jul-15	15-Aug-15	100%	-			1		1	
Review & Comment by JV Designer prepare IFA			18 10	17-Aug-15 07-Sep-15	05-Sep-15 17-Sep-15	100%				- - 	1	1	
Formal Submission of IFA to ICE/ IPs			0	57 Sop-10	17-Sep-15 17-Sep-15	100%				1 1 1	1 1 1	) 	
Advanced Submission to SO			0		17-Sep-15	100%					1	·	-!
IPs/SO's Advance Comments/ ICE Comments			28	18-Sep-15	15-Oct-15	88%				1 1	1 1	1	
Comments Received			0		15-Oct-15	0%			+	1 1 1			
Designer to Reply RtC + Update Submission			21	16-Oct-15	10-Nov-15	0%							
Submit Updated IFA to SO/ ICE/ IPs			0	11-Nov-15	OA NESS 15	0%					¦	L	
ICE Approval & Issue Check Cert IPs Review			12 28	11-Nov-15 11-Nov-15	24-Nov-15 08-Dec-15	0%				1		1	
SO's Review			35	11-Nov-15	15-Dec-15	0%	_			1		1	
Method Statement Submission										1 1 1	1 1 1	1 1	
Method Statement of Construction Method	odology of Retrieval	Shaft			•	_				1			
Preparation Method Statement for Retrieval Shaft			25	24-Aug-15	21-Sep-15	0%				1	1	1	
Submit Method Statement to SO			0	00.0	21-Sep-15	0%	_		•	, , , ,		1	
SO Reviews & Comments			28	22-Sep-15	19-Oct-15	0%				1			
Construction South Landfall GI Works/DW Setting Up			48	06-Aug-15	02-Oct-15	0%	_			1		1	
South Retrieval Shaft - Diaphragm Wall			98	03-Oct-15	29-Jan-16	80%							
Retrieval Shaft - Excavation - Soft (other than Fill)			140	15-Apr-16	30-Sep-16	0%	Retrieval Sh	aft - Excavation - Soft (other	than Fill)	1		- - - 	
Retrieval Shaft - Temp. Slab/Prepare for TBM Breakthrou	ugh		48	03-Oct-16	28-Nov-16	0%		Retrieval Sh	aft - Temp. Slal	b/Prepare for	r TBM Breakthr	pugh	
_South Approach Ramp													
Construction Appoach Ramp (CH1580-1850) - Pipe Pile/Sheet Piles	Mall	i	126	03-Oct-15	09-Mar-16	0%							
Appoach Ramp (CH1580-1850) - Fipe File/Sileet Files Appoach Ramp (CH1580-1850) - Tension Piles	waii		120	03-Oct-15	09-Mar-16 04-Feb-16	0%	_			1			
Appoach Ramp (CH1580-1800) - Excavation,			22	16-Mar-17	11-Apr-17	0%			-	1 1 1		Аррс	ach Ramp
South Ventilation Building						_				1			
Design Submission													
(11) DDA for South Vent.Bldg. GBP & Arch	.Submission		28	22-Dec-14	18-Jan-15	88%							
IP's No Objection Received			0	22-Dec-14	18-Jan-15	0%	_			1     	- - - - -	1 1 1	
SO's Review			35	22-Dec-14	25-Jan-15	91%	-			1			
SO Approval with Condition Received			0		26-Jan-15	0%			•	1		1	
(I2) DDA for South Vent.Bldg. Foundation	n Design									   	1	/ /   	
Review & Comment by JV			18	27-Apr-15	18-May-15	88%				1 1 1	1 1 1	1	
Designer prepare DDA			10	19-May-15	30-May-15	0%							
Formal Submission of DDA to ICE/ IPs Advanced Submission to SO			0		30-May-15 30-May-15	0%			]	1 1	1 1	1	
IPs/SO's Advance Comments/ ICE Comments			28	31-May-15	27-Jun-15	0%			]		1 1 1		
Comments Received			0		27-Jun-15	0%							
Designer to Reply RtC + Update Submission			21	29-Jun-15	23-Jul-15	0%					, 1 1	1	
Submit Updated DDA to SO/ ICE/ IPs			0	24-Jul-15		0%	<b>—</b>		+				
ICE Approval & Issue Che ck Cert			18	24-Jul-15	13-Aug-15	0%		j		ļ			
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SO's Review			35	24-Jul-15	27-Aug-15	0%							
		a a tion of				700/				1 1	1 1	1	
(I2) DDA for South Vent.Bldg.Structural D Beview & Comment by JV	esign incl.Vent.Conr	nections	18	18-Feb-15	13-Mar-15	/h%	1	1	1	1	1	i	1
(I2) DDA for South Vent.Bldg.Structural D Review & Comment by JV Designer prepare DDA	esign incl.Vent.Conr	nections	18 10	18-Feb-15 14-Mar-15	13-Mar-15 25-Mar-15	76% 0%					1	1	i i
Review & Comment by JV	Design incl.Vent.Conr	nections										 	
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Review & Comment by JV         Designer prepare DDA         Formal Submission of DDA to ICE/ IPs         Advanced Submission to SO         IPs/ SO's Advance Comments/ ICE Comments         Comments Received         Designer to Reply RtC + Update Submission         (J1) DDA Temp.works for Construction o         Designer to Reply RtC + Update Submission         Submit Updated DDA to SO/ ICE/ IPs         ICE Approval & Issue Check Cert         Submit ICE Check Cert to SO         IP's No Objection Received         SO's Review         SO Approval with Condition Received		TMCLK - North	10 0 28 0 21 21 21 0 12 6 28 0 35 0	14-Mar-15 26-Mar-15 23-Apr-15 23-Apr-15 17-Sep-15 17-Sep-15 17-Sep-15 17-Sep-15	25-Mar-15 25-Mar-15 22-Apr-15 22-Apr-15 18-May-15 18-May-15 02-Oct-15 09-Oct-15 14-Oct-15 14-Oct-15 21-Oct-15 22-Oct-15	0% 0% 0% 0% 0% 90% 0% 0% 0% 0%				12-Feb-14 TI 08-Apr-14 TI	Revision MCLKODEJGENPRG985 MCLKODEJGENPRG985	07 WYu 07 Rev.B SPa	ed Appri SPo WYu
Review & Comment by JV         Designer prepare DDA         Formal Submission of DDA to ICE/ IPs         Advanced Submission to SO         IPs/ SO's Advance Comments/ ICE Comments         Comments Received         Designer to Reply RtC + Update Submission         (J1) DDA Temp.works for Construction o         Designer to Reply RtC + Update Submission         Submit Updated DDA to SO/ ICE/ IPs         ICE Approval & Issue Che ck Cert         Submit ICE Check Cert to SO         IPs Review         IP's No Objection Received         SO's Review         SO Approval with Condition Received         10 of 11         P         Ct ID: TMCL K DWPE 16W25	f Sth.Vent.Bldg.	TMCLK - North	10 0 28 0 21 21 0 12 6 28 0 35 0 0 0 0 0 0 0 0 0 0 0 0 0	14-Mar-15 26-Mar-15 23-Apr-15 23-Apr-15 17-Sep-15 17-Sep-15 17-Sep-15 17-Sep-15	25-Mar-15 25-Mar-15 22-Apr-15 22-Apr-15 18-May-15 16-Sep-15 02-Oct-15 09-Oct-15 14-Oct-15 21-Oct-15 22-Oct-15 22-Oct-15 22-Oct-15	0% 0% 0% 0% 0% 90% 0% 0% 0% 0% 0% 0%			BOUYGUES	12-Feb-14 TM 08-Apr-14 TM 28-Aug-14 TM	MCLK/DBJGEN/PRG/985 MCLK/DBJGEN/PRG/985	07 WYu 07 Rev.B SPa 07 Rev.C CLa	SPo WYu
Review & Comment by JV Designer prepare DDA Formal Submission of DDA to ICE/ IPs Advanced Submission to SO IPs/ SO's Advance Comments/ ICE Comments Comments Received Designer to Reply RtC + Update Submission (J1) DDA Temp.works for Construction o Designer to Reply RtC + Update Submission Submit Updated DDA to SO/ ICE/ IPs ICE Approval & Issue Che ck Cert Submit ICE Check Cert to SO IPs Review IP's No Objection Received SO's Review SO Approval with Condition Received 10 of 11 Ct ID: TMCLK DWPF 16W25	f Sth.Vent.Bldg.	TMCLK - North Detail	10 0 28 0 21 21 0 12 6 28 0 35 0 mern C ed W	14-Mar-15 26-Mar-15 23-Apr-15 24-Aug-15 17-Sep-15 17-Sep-15 03-Oct-15 17-Sep-15 17-Sep-15 03-Oct-15 17-Sep-15	25-Mar-15 25-Mar-15 22-Apr-15 22-Apr-15 18-May-15 16-Sep-15 02-Oct-15 09-Oct-15 14-Oct-15 14-Oct-15 21-Oct-15 22-Oct-15 22-Oct-15 22-Oct-15 22-Oct-15 22-Oct-15 22-Oct-15	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%		Toggages Proggages Proggages		12-Feb-14 TM 08-Apr-14 TM 28-Aug-14 TM	MCLK/DBJGEN/PRG/9850 MCLK/DBJGEN/PRG/9850 MCLK/DBJGEN/PRG/9850	07 WYu 07 Rev.B SPa 07 Rev.C CLa	SPo WYu
Review & Comment by JV         Designer prepare DDA         Formal Submission of DDA to ICE/ IPs         Advanced Submission to SO         IPs/ SO's Advance Comments/ ICE Comments         Comments Received         Designer to Reply RtC + Update Submission         (J1) DDA Temp.works for Construction o         Designer to Reply RtC + Update Submission         Submit Updated DDA to SO/ ICE/ IPs         ICE Approval & Issue Check Cert         Submit ICE Check Cert to SO         IP's No Objection Received         SO's Review         SO Approval with Condition Received         10 of 11         ct ID: TMCLK DWPF 16W25         Date: 01-Jan-17	f Sth.Vent.Bldg. f Sth.Vent.Bldg. lanned Bar lanned Bar lanned Bar - Critical lanned Milestone	TMCLK - North Detail	10 0 28 0 21 21 0 12 6 28 0 35 0 mern C ed W	14-Mar-15 26-Mar-15 23-Apr-15 24-Aug-15 17-Sep-15 17-Sep-15 03-Oct-15 17-Sep-15 17-Sep-15	25-Mar-15 25-Mar-15 22-Apr-15 22-Apr-15 18-May-15 16-Sep-15 02-Oct-15 09-Oct-15 14-Oct-15 14-Oct-15 21-Oct-15 22-Oct-15 22-Oct-15 22-Oct-15 22-Oct-15 22-Oct-15 22-Oct-15	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%	Section	章 章 章 章 章 章 章		12-Feb-14 TM 08-Apr-14 TM 28-Aug-14 TM	MCLK/DBJGEN/PRG/9850 MCLK/DBJGEN/PRG/9850 MCLK/DBJGEN/PRG/9850	07 WYu 07 Rev.B SPa 07 Rev.C CLa	SPo WYu

ty Name	Orig	DWPF	DWPF	%		2016		Í		2017	
	Dur	Start	Finish	Comp	Oct	2016 Nov	Dec	Jan F		2017 Mar	Apr May
Construction				_			•				
Mobilization & Setting Up Piling Rigs	64	06-Aug-15	22-Oct-15	0%							
Substructure	95	06-Sep-16	30-Dec-16	0%			1	Substructure			
Superstructure	65	31-Dec-16	24-Mar-17	0%							Superstructure
_South Surface Roadworks, Utility & Drainage works				_							
Design Submission				_	·				+		·
(E1) AIP - Southern Landfall Seawall Modification											
Designer Prepare AIP - Southern Landfall Seawall Modification	36	08-Nov-16	19-Dec-16	100%			De	signer Prepare AIP -		andfall Se	awall Modification
Review & Comment by JV	12	20-Dec-16	05-Jan-17	100%				Review & Com			
Designer prepare AIP	6	06-Jan-17	12-Jan-17	100%				Designer pro			
Formal Submission of AIP to ICE/IPs Advanced Submission of AIP to SO	0		12-Jan-17 12-Jan-17	100%			, , ,	Formal Subi	+		
Review & Comment by SO/ ICE/ IPs	28	13-Jan-17	09-Feb-17	100%				Advanced S	1		1
Advance Commants from SO/ Comments from ICE/ IPs Received	0	13-Jan-17	09-Feb-17 09-Feb-17	100%			1 1 1				by SO/ ICE/ IPs
Designer to Prepare RtC & Updated AIP	18	10-Feb-17	09-Peb-17 02-Mar-17	100%				×	1		Prepare RtC & Updated
Submisson of AIP to SO/ ICE together with Reply To Comment (RTC)	0	10-1 60-17	02-Mar-17	100%				-		•	of AIP to SO/ICE togethe
Reply to IPs Comments in RTC	0		02-Mar-17	100%	·						s Comments in RTC
ICE Approval & Issue of Design Check Cert.	18	03-Mar-17	23-Mar-17	100%							E Approval & Issue of De
SO Review (35 Days)	35	03-Mar-17	06-Apr-17	100%						K	SO Review (35 Day
(E1) DDA - Southern Landfall Seawall Modification	00		00710117	10070							SO Neview (33 Days
Designer to Reply RtC + Update Submission	21	05-Jul-17	28-Jul-17	83.33%							
Submit Updated DDA to SO/ ICE/ IPs	0	29-Jul-17	20 001 17	0%	·						
ICE Approval & Issue Check Cert	12	29-Jul-17	11-Aug-17	0%							
Submit ICE Check Cert to SO	6	12-Aug-17	18-Aug-17	0%							
IPs Review	28	29-Jul-17	25-Aug-17	0%							
IP's No Objection Received	0	20 001 17	25-Aug-17	0%			1				
SO's Review	35	29-Jul-17	01-Sep-17	0%	·						·
SO Approval with Condition Received	0		01-Sep-17	0%							
(E3) DDA for Sewerage, Drainage, Waterworks & Utility works for South La											
IPs Review	28	02-Mar-15	29-Mar-15	100%							
IP's No Objection Received	0		29-Mar-15	100%							
SO's Review	35	02-Mar-15	05-Apr-15	100%							
SO Approval with Condition Received	0		08-Apr-15	100%							
Method Statement Submission											
Method Statement of Ground Treatment for TBMs Passing under Souther	rn Landfall S	eawall		-							
Preparation Method Statement for Ground Improvement in South Landfall	9	20-Jul-15	29-Jul-15	0%							
Submit Method Statement to SO	0		29-Jul-15	0%							
SO Reviews & Comments	28	30-Jul-15	26-Aug-15	0%			1				
Re-submission	6	27-Aug-15	02-Sep-15	0%							
SO's Review	28	03-Sep-15	30-Sep-15	0%							
SO's Approval	0		30-Sep-15	0%							
Construction											·
Temporary Platform for Ground Treatment for TBM passing under Southern Seawall	48	06-Aug-15	02-Oct-15	0%							
Grouting Treatment for TBM passing under Southern Seawall	339	03-Oct-15	25-Nov-16	0%			Grouting Trea	tment for TBM passin	g under So	uthern Se	awall
Testing & Commissioning/Inspection & Handover											
Final Inspection & Handover				_	1						
 Design Submission							J				
(A12) Maintenance Matrix											
Preparation of Maintenance Matrix	35	24-Dec-15	05-Feb-16	100%							
Prepare Re-submission	18	12-Mar-16	06-Apr-16	88%			1				
2nd Submission	0		06-Apr-16	0%							
SO's Condition Approval	35	07-Apr-16	11-May-16	0%	·						·
(A13) Operation & Maintenance Manual							1				
Preparation of Operation and Maintenance Manual	48	24-Dec-15	27-Feb-16	0%			1				
1st Submission	0		27-Feb-16	0%							
SO's Comments for 1st Submission	35	28-Feb-16	02-Apr-16	0%							
Prepare Re-submission	24	05-Apr-16	03-May-16	0%							·
(A14) As-built & As-fabricated Drawings							1				
Preparation of As-built and As-fabricated Drawings	48	24-Dec-15	27-Feb-16	0%			1				
1st Submission	0		27-Feb-16	0%							
SO's Comments for 1st Submission	35	28-Feb-16	02-Apr-16	0%	1						
(A15) Health & Safety File incl.As-built Dwgs & Records, Maintenance Sch	edules,O&M	Manual			·						·
Preparation of Health and Safety File including as-built drawings and records, maintenance schedu		24-Dec-15	27-Feb-16	0%	ules, operatior	and mai	1				
				1			1	1	i		
1st Submission	0		27-Feb-16	0%			1	•			1

Act

Page 11 of 11	Planned Bar	TMCLK - Northern Connection Sub-Sea Tunnel Section		Date 12-Feb-14 08-Apr-14	Revision TMCLK/DBJGEN/PRG/98507 TMCLK/DBJGEN/PRG/98507 Rev.B	Checked WYu SPa	Approved SPo WYu
Project ID: TMCLK DWPF 16W25 Data Date: 01-Jan-17	Planned Bar - Critical  Planned Milestone Progress bar	Detailed Works Programme (Rev. F)	た で た で な の の の の の の の の の の の の の	28-Aug-14 30-Oct-15	TMCLK/DBJGEN/PRG/98507 Rev.C TMCLK/DBJGEN/PRG/98507 Rev.F	CLa	WYu
	<ul> <li>Progress Milestone</li> </ul>	Three Months Rolling Programme	A meriter of the Bouygues Construction group Dragages - Bouygues Joint Venture 寶嘉 - 布依格聯營				
		Progress as of 01-Jan-17					

Appendix M

# Waste Flow Table



## **Monthly Summary Waste Flow Table** Name of Department:

## Contract No. / Works Order No.: <u>HY/2012/08</u>

Monthly Summary Waste Flow Table for <u>February 2017</u>

HyD

[to be submitted not later than the 15<sup>th</sup> day of each month following reporting

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

	Monthly Break-down of <u>Inert</u> Construction & Demolition Materials (i.e. Public Fill Materials)									
Month	(a)=(b)+(c)+(d)+(e) Total Quantity Generated	(b) Hard Rock and Large Broken Concrete	(c) Reused in the Contract	(d) Reused in other Projects	(e) Disposed of as Public Fill					
	(in '000 ton)	(in '000 ton)	(in '000 ton)	(in '000 ton)	(in '000 ton)					
Sub-total	1097.465	0.000	0.000	0.000	1097.465					
Jan-2017	60.781	0.000	0.000	0.000	60.781					
Feb-2017	17.367	0.000	0.000	0.000	17.367					
Mar-2017										
Apr-2017										
May-2017										
Jun-2017										
Half Year Sub-total										
Jul-2017										
Aug-2017										
Sep-2017										
Oct-2017										
Nov-2017										
Dec-2017										
Project Total Quantities	1175.613	0.000	0.000	0.000	1175.613					



		Actual Quantities of <u>Non-inert</u> Construction Waste Generated Monthly											
Month	Me	etals	Paper/ cardbo	oard packaging		stics Note 3)	Chemic	al Waste	Others, e.g. General Refuse disposed at Landfill				
	(in '0	000kg)	(in '(	)00kg)	(in '0	(in '000kg)		(in '000kg)					
	generated	recycled	generated	recycled	generated	recycled	generated	Disposed	generated				
Sub-total	1.850	1.850	3.150	3.150	6.870	6.870	9.450	9.450	4.935				
Jan-2017	0.000	0.000	0.000	0.000	0.000	0.000	3.400	3.400	0.257				
Feb-2017	0.000	0.000	0.200	0.200	0.000	0.000	0.000	0.000	0.340				
Mar-2017													
Apr-2017													
May-2017													
Jun-2017													
Half Year Sub-total													
Jul-2017													
Aug-2017													
Sep-2017													
Oct-2017													
Nov-2017													
Dec-2017													
Project Total Quantities	1.850	1.850	3.350	3.350	6.870	6.870	12.850	12.850	5.532				



Forecast of Total Quantities of Construction and Demolition Materials to be Generated from the Contract*									
Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed of as Public Fill					
(in '000 ton)	(in '000 ton)	(in '000 ton)	(in '000 ton)	(in '000 ton)					
20.000	0.000	0.000	0.000	20.000					

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

Notes:

(1) The performance targets are given in the **ER Appendix 8J Clause 14** and the EM & A Manual(s).

(2) The waste flow table shall also include C&D materials to be imported for use at the Site.

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

(4) The Contractor shall also submit the latest forecast of the total amount of C&D materials expected to be generated from the Works, together with a breakdown of the nature where the amount of C&D materials expected to be generated from the Works is equal to or exceeding 50,000 m<sup>3</sup>. (**ER Part 8 Clause 8.8.5** (d) (ii) refers).