

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

Forty-second Monthly Environmental Monitoring & Audit (EM&A) Report

12 May 2017

Environmental Resources Management 16/F, Berkshire House 25 Westlands Road

Quarry Bay, Hong Kong Telephone 2271 3000 Facsimile 2723 5660



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15 May 2017

AECOM

By Fax (2293 6300) and By Post

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 42nd Monthly EM&A Report for April 2017 (EP-354/2009/D)

Reference is made to the Monthly Environmental Monitoring and Audit (EM&A) Report (April 2017) (ET's ref.: "0212330_42nd Monthly EM&A_20170512.doc" dated 12 May 2017) certified by the ET Leader and provided to us via e-mail on 12 May 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,

Hang Jan bleauf

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, PSC, ENPO Site

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Forty-second Monthly Environmental Monitoring & Audit (EM&A) Report

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This document presents the Forty-second Monthly EM&A Report for Tuen Mun – Chek Lap Kok Link Northern Connection Sub-sea Tunnel Section.			Mr Craig Reid				
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		ET Le	eade	er			
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EXECUTIVE SUMMARY

Under *Contract No. HY/2012/08*, Dragages – Bouygues Joint Venture (DBJV) is commissioned by the Highways Department (HyD) to undertake the design and construction of the Northern Connection Sub-sea Tunnel Section of the Tuen Mun – Chek Lap Kok Link Project (TM-CLK Link Project) while AECOM Asia Company Limited was appointed by HyD as the Supervising Officer. For implementation of the environmental monitoring and audit (EM&A) programme under the Contract, ERM-Hong Kong, Limited (ERM) has been appointed as the Environmental Team (ET) in accordance with *Environmental Permit No. EP-354/2009/A*. 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 Forty-second Monthly EM&A report presenting the EM&A works carried out during the period from 1 to 30 April 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
- 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	10 sessions
1-hour TSP Monitoring	10 sessions
Water Quality Monitoring	13 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 April 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 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 noise nuisance and water pollution at the site near HKBCF of HZMB was referred by IEC on 28 March 2017. The complaint investigation report is provided in Appendix L.

No environmental complaint was received in this reporting period.

No environmental summons was received in this reporting period.

Reporting Change

There was no reporting change required in the reporting period.

Upcoming Works for the Next Reporting Month

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

Marine-based Works

- Construction of Vertical Seawall at Portion N-A; 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;
- CSM Ground Treatment and Bulk excavation Portion S-A.

Future Key Issues

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

1.1 BACKGROUND

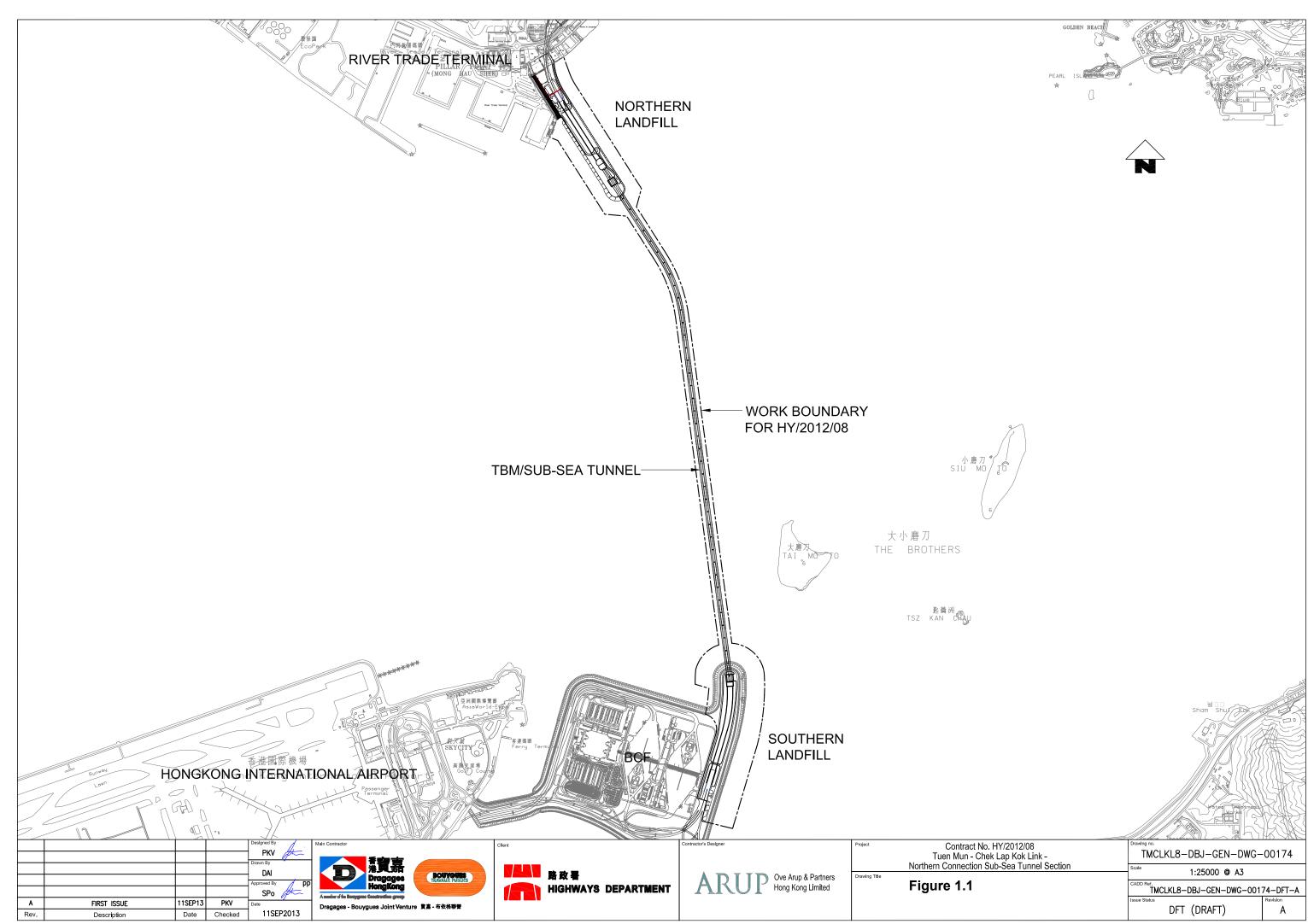
According to the findings of the Northwest New Territories (NWNT) Traffic and Infrastructure Review conducted by the Transport Department, Tuen Mun Road, Ting Kau Bridge, Lantau Link and North Lantau Highway would be operating beyond capacity after 2016. This forecast has been based on the estimated 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 Forty-second 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 April 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	Roger Man	2293 6388	2293 6300
Limited)	Lingineer	Andrew Westmoreland	2293 6360	2293 6300
ENPO / IEC (Ramboll Environ Hong	ENPO Leader	Y.H. Hui	3465 2850	3465 2899
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
,,	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

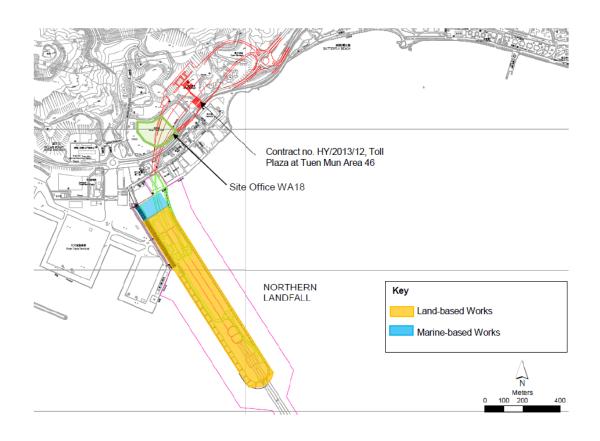
Construction Activities Undertaken

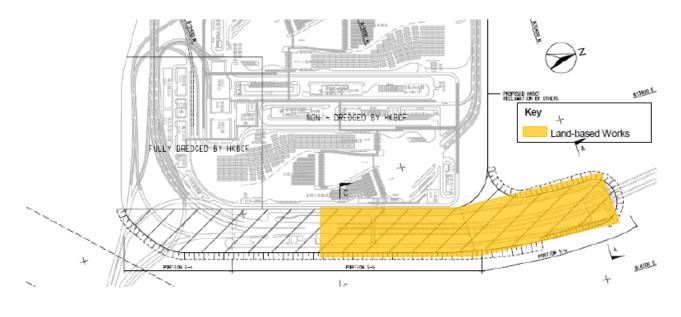
Land-based Works

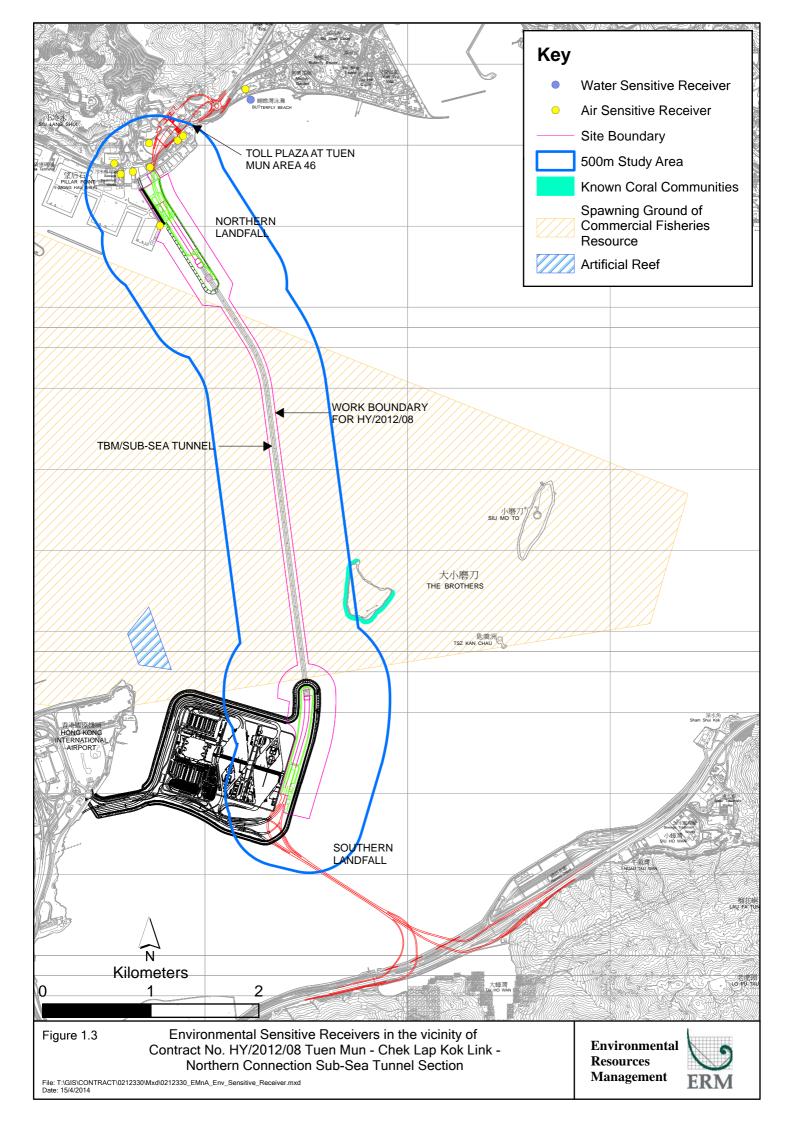
- Box Culvert Extension at Works Area Portion N-A;
- Construction of North Ventilation Building Portion N-C;
- Construction of Cross Passage Tympanum TBM tunnel;
- Cross Passage Lining Installation TBM Tunnel;
- Excavation of Sub-sea Tunnel TBM tunnel;
- Corbel Construction TBM Tunnel;
- Sub-sea Tunnel 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
- 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

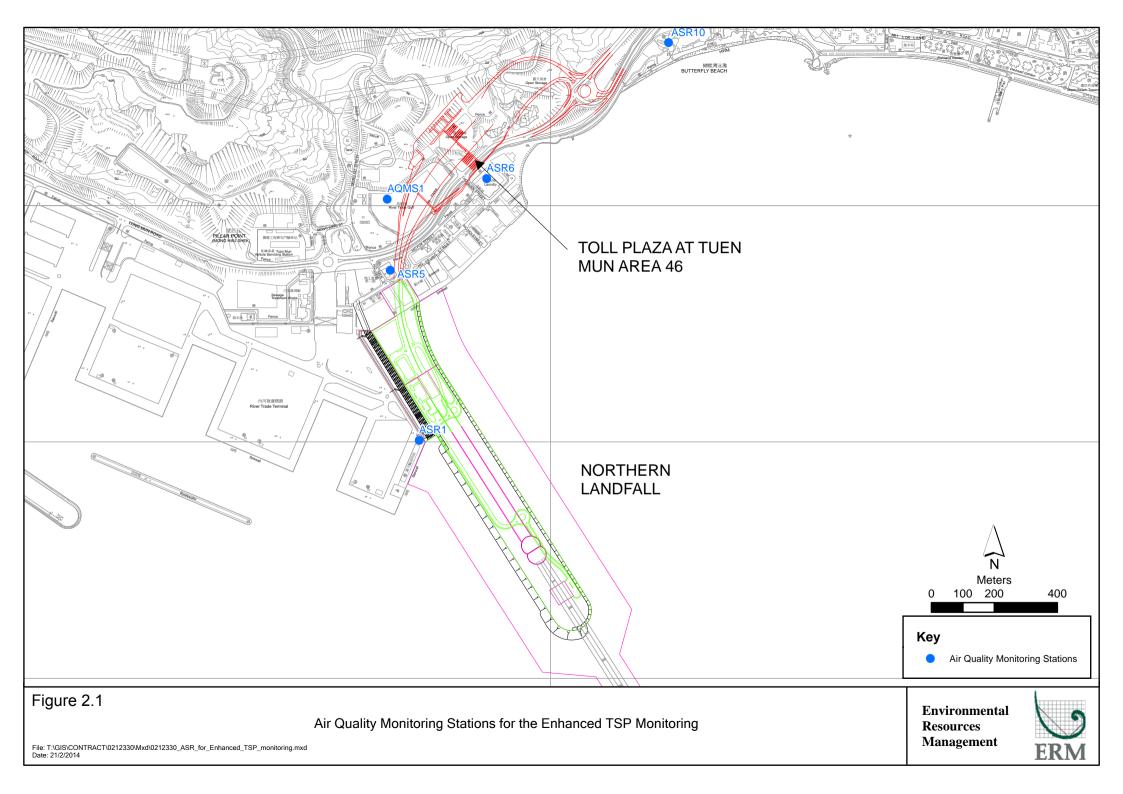
2.1.1 Monitoring Requirements and Equipment

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 3, 6, 9, 12, 15, 18, 21, 24, 27 and 30 April 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*.

Monitoring Station	Monitoring Dates	Location	Description	Parameters & Frequency
ASR1	3, 6, 9, 12, 15, 18, 21,	Tuen Mun	Office	TSP monitoring
	24, 27 and 30 April	Fireboat Station		• 1-hour Total Suspended
	2017			Particulates (1-hour TSP,
ASR5		Pillar Point Fire	Office	μ g/m ³), 3 times in every 6 day
		Station		• 24-hour Total Suspended
				Particulates (24-hour TSP,
AQMS1		Previous River	Bare ground	μ g/m ³), 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	μ g/m ³), 3 times in every 3 day
		Park	uses	• 24-hour Total Suspended
				Particulates (24-hour TSP,
				μ g/m ³), daily for 24-hour in
				every 3 days

Table 2.1Locations of Impact Air Quality Monitoring Stations and Monitoring Dates
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 April 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/m³)	Action Level (µg/m³)	Limit Level (µg/m³)
ASR1	160	57 - 256	331	500
ASR5	174	92 - 270	340	500
AQMS1	123	56 - 256	335	500
ASR6	145	81 - 221	338	500
ASR10	107	60 - 174	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	88	64 - 117	213	260
ASR5	89	60 - 123	238	260
AQMS1	61	45 - 80	213	260
ASR6	72	47 - 103	238	260
ASR10	57	43 - 72	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 10 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
Monitoring Requirements

Station ID	Туре	Coor	dinates	*Parameters, unit	Depth	Frequency
		Easting	Northing	-		
IS12	Impact Station	813218	823681	 Temperature(°C) 	3 water depths: 1m	Impact
IS13	Impact Station	813667	824325	 pH(pH unit) 	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*.

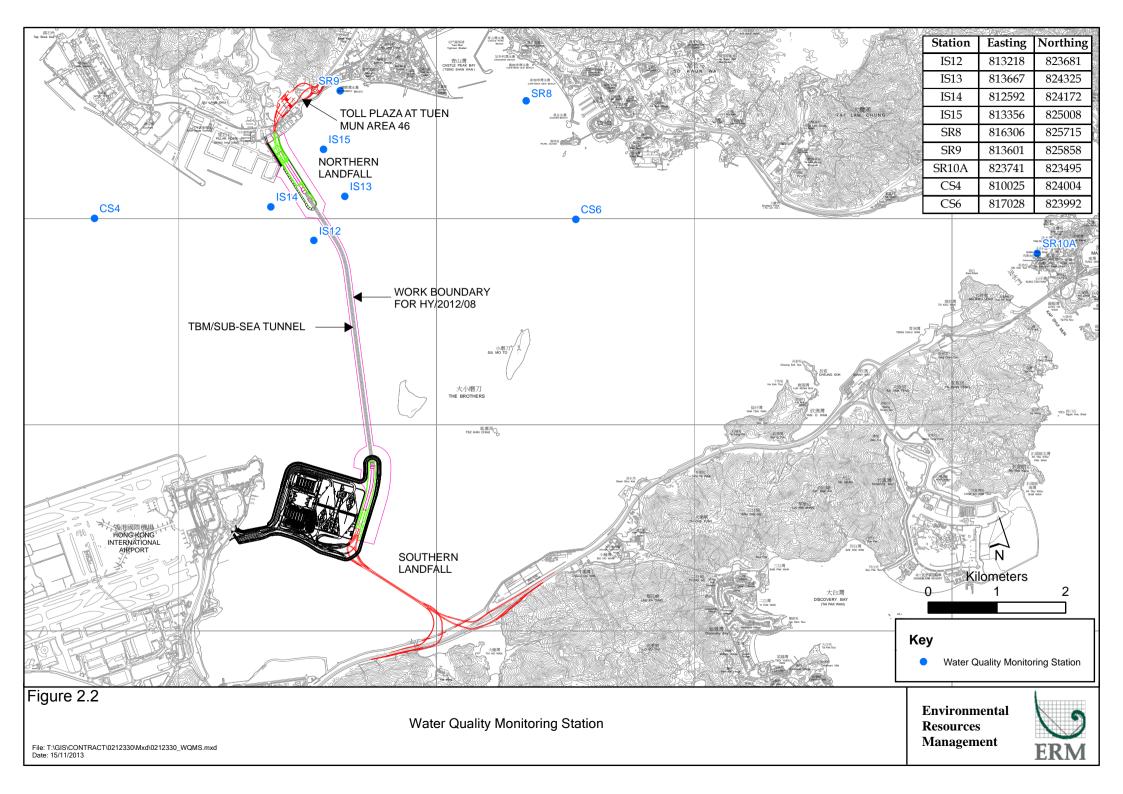


Table 2.6Water Quality Monitoring Equipment

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 ⁽¹⁾

2.2.2 Action & Limit Levels

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

2.2.3 Monitoring Schedule for the Reporting Month

The schedule for water quality monitoring in April 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 thirteen (13) 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

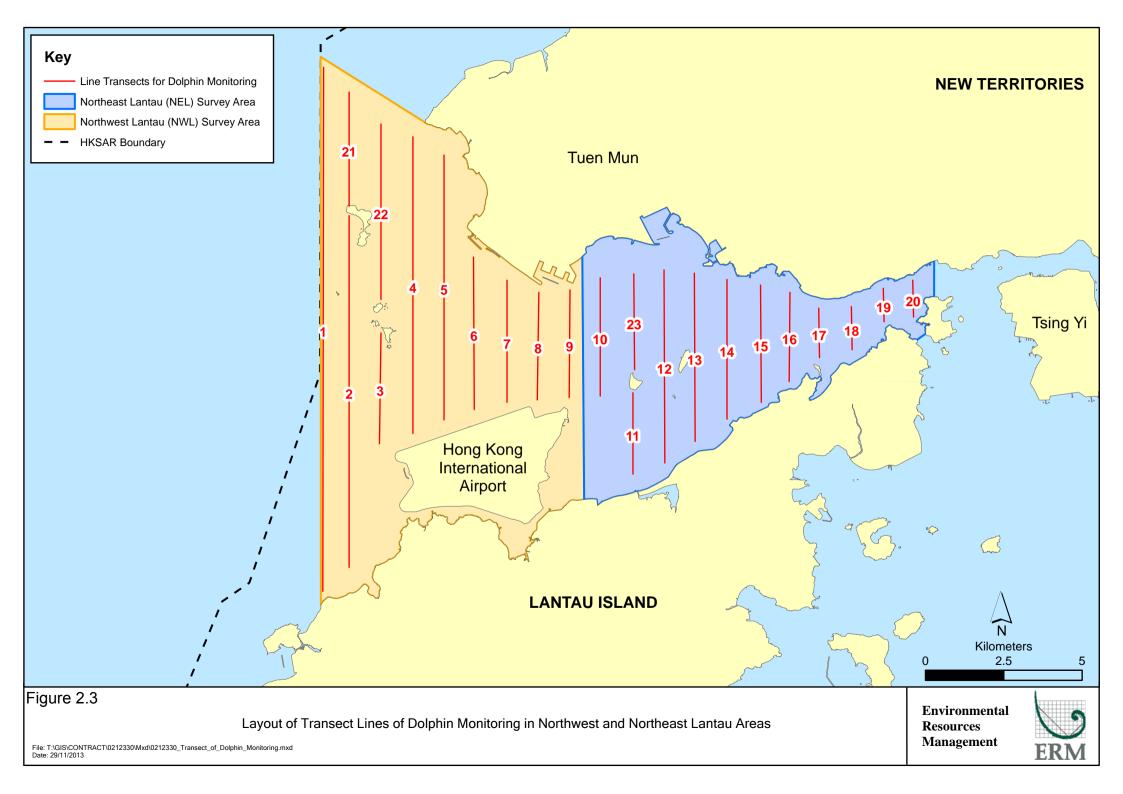
Equipment	Model
Global Positioning System (GPS)	Garmin 18X-PC
	Geo One Phottix
Camera	Nikon D90 300m 2.8D fixed focus
	Nikon D90 20-300m zoom lens
Laser Binocular	Infinitor LRF 1000
Marine Binocular	Bushell 7 x 50 marine binocular with compass and reticules
Vessel for Monitoring	65 foot single engine 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 12, 20, 24 and 26 of April 2017. The dolphin monitoring schedule for the reporting month is shown in *Appendix F*.

2.3.7 Results & Observations

A total of 273.33 km of survey effort was collected, with 100% of the total survey effort being conducted under favourable weather conditions (i.e. Beaufort Sea State 3 or below with good visibility) in April 2017. Among the two areas, 105.03 km and 168.30 km of survey effort were collected from NEL and NWL survey areas, respectively. The total survey effort conducted on primary and secondary lines were 189.06 km and 84.27 km respectively. The survey efforts are summarized in *Appendix J*.

One group of 2 Chinese White Dolphins sightings was recorded during the two sets of surveys in April 2017. The one dolphin sighting was made in NWL, while none was sighted in NEL. The dolphin sighting was made during on-effort search on primary lines. It was not associated with any operating fishing vessel.

No dolphin sighting 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 April 2017 with the results present in *Tables 2.9* and *2.10*.

Table 2.9Individual Survey Event Encounter Rates

		Encounter rate (STG)	Encounter rate (ANI)
		(no. of on-effort dolphin	(no. of dolphins from all on-
		sightings per 100 km of	effort sightings per 100 km of
		survey effort)	survey effort)
		Primary Lines Only	Primary Lines Only
NEL	Set 1: April 12th / 20th	0.0	0.0
INEL	Set 2: April 24 th / 26 th	0.0	0.0
NWL	Set 1: April 12th / 20th	1.7	3.4
INVVL	Set 2: April 24th / 26th	0.0	0.0

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

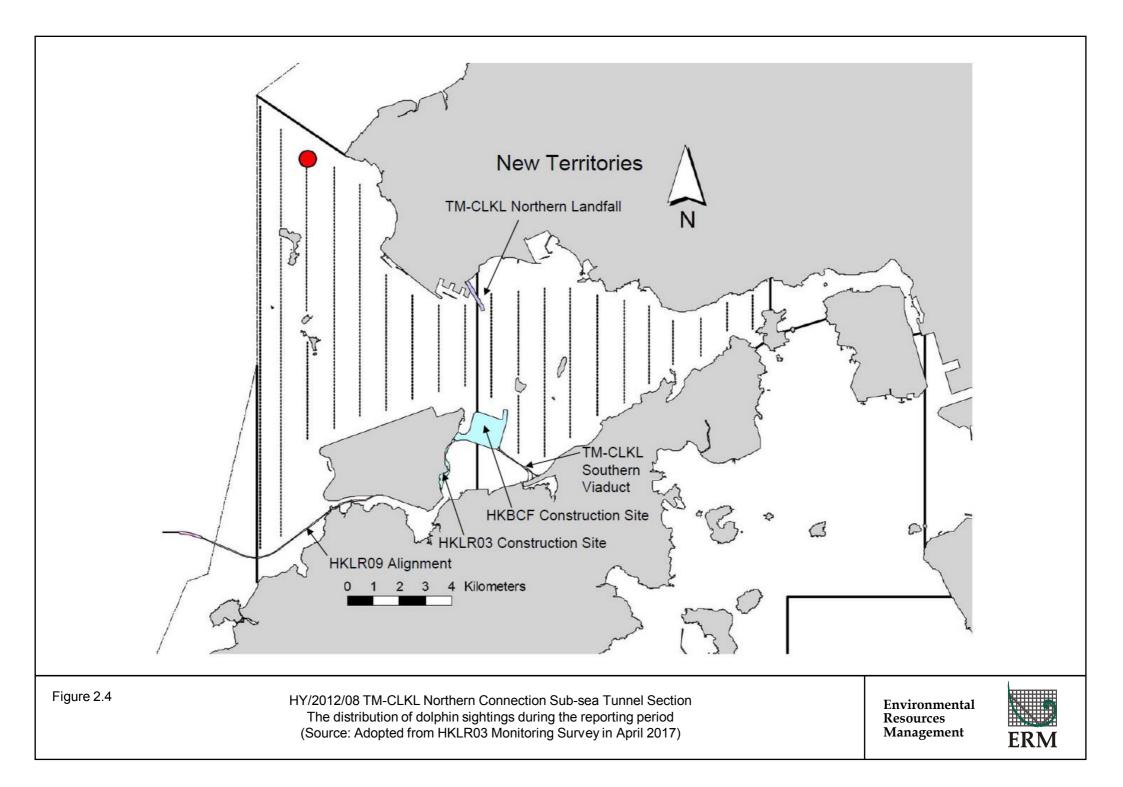


Table 2.10Monthly Average Encounter Rates

	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 Lines Only	Both Primary and Secondary Lines	Primary Lines Only	Both Primary and Secondary Lines	
Northeast Lantau	0.0	0.0	0.0	0.0	
Northwest Lantau	0.8	0.6	1.6	1.2	

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

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 April 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 5, 13, 19 and 26 April 2017.

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

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

Inspection Date	Observations	Recommendations/ Remarks
5 April 2017	 Works Area - Portion S-C Cement bags should be covered with tarpaulin sheets. Accumulated rubbish should be removed. Works Area - Portion N-B Drip tray and chemical labels should be provided to the chemical containers. 	 Works Area - Portion S-C The Contractor was reminded to cover the cement bags with tarpaulin sheets. The Contractor was reminded to remove the accumulated rubbish. Works Area - Portion N-B The Contractor was reminded to provide drip tray and chemical labels to the chemical containers.
13 April 2017	 Works Area - TBM Tunnel Cement bags should be covered with tarpaulin sheets. Drip tray should be provided to the chemical containers. Works Area - Portion S-A Drip tray and chemical labels should be provided to the oil drum. Oily substances near the generator should be removed. 	 Works Area - TBM Tunnel The Contractor was reminded to cover the cement bags with tarpaulin sheets. The Contractor was reminded to provide drip tray to the chemical containers Works Area - Portion S-A The Contractor was reminded to provide drip tray and chemical labels to the oil drum. The Contractor was reminded to remove the oily substances near the generator.
19 April 2017	 Works Area - Portion S-A Drip tray should be provided to the chemical containers. Works Area - Portion N-A Water spraying should be applied more frequently during dry conditions. Cement bags should be covered with tarpaulin sheet. 	 Works Area - Portion S-A The Contractor was reminded to provide drip tray and chemical labels to the oil drum. Works Area - Portion N-A The Contractor was reminded to apply water spraying more frequently during dry conditions. The Contractor was reminded to cover the cement bags with tarpaulin sheet.
26 April 2017	 Works Area - Portion S-A Accumulated waste should be removed. Drip tray should be provided to the chemical containers. 	 Works Area - Portion S-A The Contractor was reminded to remove the accumulated waste. The Contractor was reminded to provide drip tray and chemical labels to the oil drum.

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). 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	Inert Construction	Non-inert Construction Waste ^(b) (tonnes)	Recyclable Materials ^(c) (kg)	Chemical Wastes (kg)	Marine Sediment (m ³)	
	Waste ^(a) (tonnes)	Waste Re- used (tonnes)				Category L	Category M (M _p & M _f)
April 2017	15,603	0	237	0	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.

D Application for VEP on 3 March 2015 to supersede EP-354/2009/C V Northern Landfall
V Northown Londfall
v INOrthern Landian
V Southern Landfall
V Northern Landfall
V Northern Landfall
V Southern Landfall
v Southern Landian
W Waste disposal in Contract No. HY/2012/08
V Vessel disposal
V For site WA18
V For site Portion N6 and Reclamation Area E
V Southern Landfall
V Northern Landfall
V Southern Landfall
V For Urmston Road in front of Pillar Point
V 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-RW0143-17	29 March 2017	28 September 2017	DBJV	For Portion N6	
Construction Noise Permit	GW-RS0121-17	25 February 2017	24 August 2017	DBJV	For Southern Landfall	
Notes:						
HyD = Highways Department						
DBJV = Dragages – Bouygues Joint Venture						
VEP = Variation of Environmental Permit						

2.7 IMPLEMENTATION STATUS OF ENVIRONMENTAL MITIGATION MEASURES

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

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

2.8 SUMMARY OF EXCEEDANCES OF THE ENVIRONMENTAL QUALITY PERFORMANCE LIMIT

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

Cumulative statistics are provided in *Appendix L*.

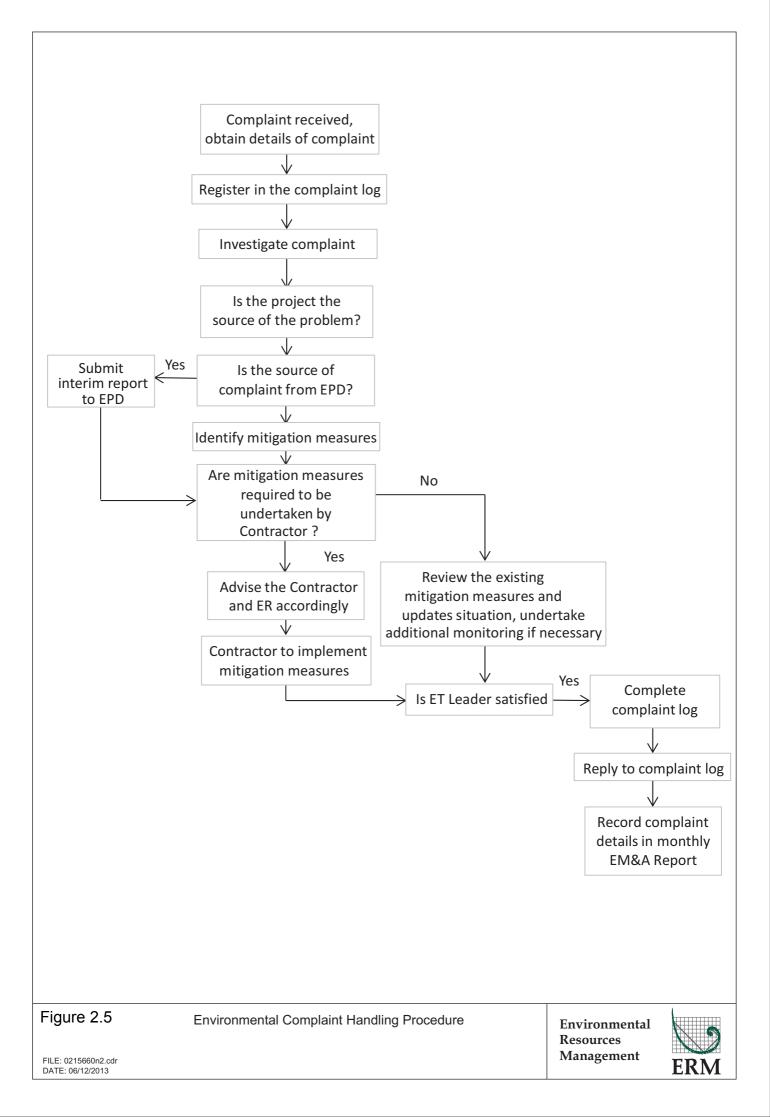
2.9 SUMMARY OF COMPLAINTS, NOTIFICATION OF SUMMONS AND SUCCESSFUL PROSECUTIONS

The Environmental Complaint Handling Procedure is provided in Figure 2.5.

One (1) environmental complaint case regarding noise nuisance and water pollution at the site near HKBCF of HZMB was referred by IEC on 28 March 2017. The complaint investigation report is provided in Appendix L.

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 May 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
- 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;
- CSM Ground Treatment and Bulk excavation 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 May 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 May 2017 is provided in *Appendix F*.

4.1 CONCLUSIONS

4

This Forty-second Monthly EM&A Report presents the findings of the EM&A activities undertaken during the period from 1 to 30 April 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.

One group of 2 Chinese White Dolphins sightings was recorded during the two sets of surveys in April 2017. The one dolphin sighting was made in NWL, while none was sighted in NEL. The dolphin sighting was made during on-effort search on primary lines. It was not associated with any operating fishing vessel.

Environmental site inspection was carried out four (4) times in April 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.

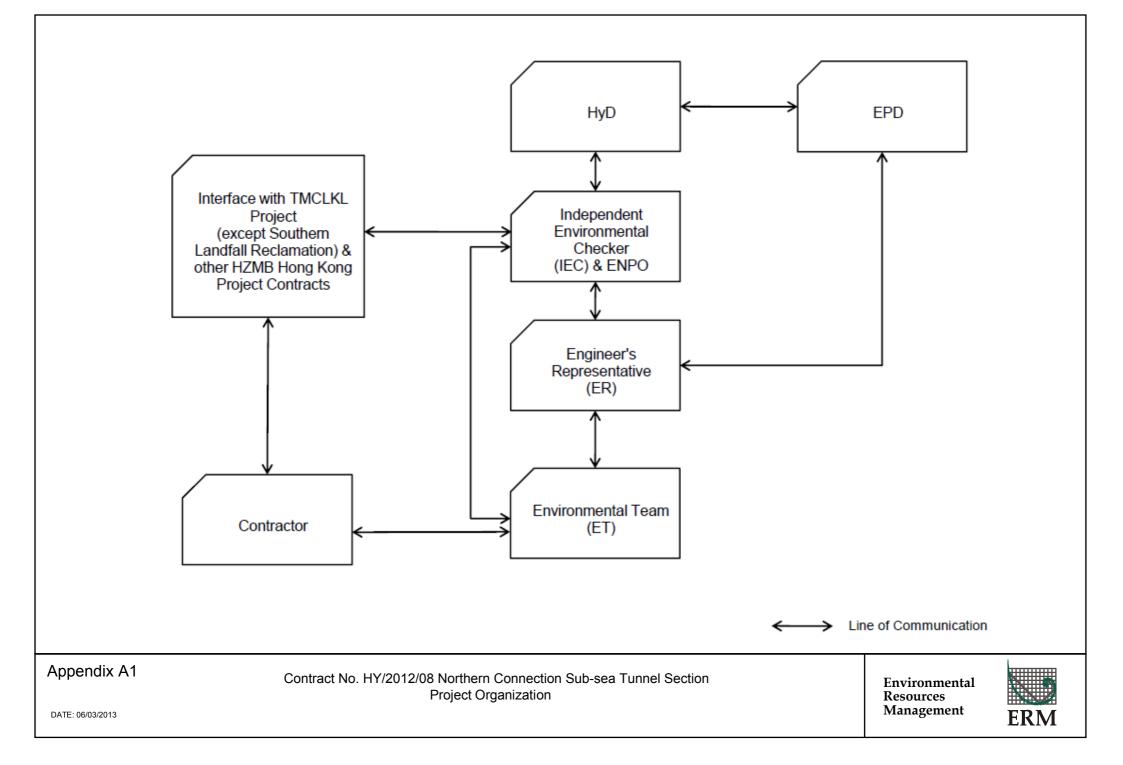
One (1) environmental complaint case regarding noise nuisance and water pollution at the site near HKBCF of HZMB was referred by IEC on 28 March 2017. The complaint investigation report is provided in Appendix L.

No environmental complaint was received in this reporting period.

No summons/ prosecution was received during the reporting period.

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

Project Organization for Environmental Works



Appendix B

Construction Programme

Activity Name												
				Feb	Mar	Apr		2017 May	Jun	Jul	Aug	Sep
TMCLK - Northern Connectio	on Sub-Sea Tunnel Section											
Contract Dates					 					1 1 1		
Site Possession Date Portions: X1,(N10,11,13 & 14) - Sth Landfa					1 1 1					1 1 1		
General Submissions	ан 											
Environmental					· 					 !	 ! !	
Environmental Permit Submiss												
Supplementary WMP of C&C T Supplementary WMP of C&C Tunnel at												
Sediment Quality Report/Dump					1							
Southern Landfall					 	 				 	 	
Southern landfall - Commencement of S												
Southern Landfall - Commencement of					1					1		
Sediment Sampling & Testing Complete SSTP and Obtain EPD's ap												
Sediment Quality Report (SQ					 	 				 	 	
Advance Ground Investigation works for	, .											
Sediment Sample Testing & Report pre	,	rad										
Finalize the applivation document and	Imping (Loading Permit) - if requi submit to EPD - for Dwall	rea										
Notify the results and issue Loading Pe	ermit for Local & Cross Boundary Crossing - fo	r Dwall										
PAYMENT MILESTONE												
Design and Design Checking o												
MS 2.5 SubmitAIP for seawall modification	on works at Southern Landfall by the Superv	ising Officer		MS 2.5 SubmitA	IP for seawail modific	ation works at t	1		for seawall modific	ation works at Southe	rn Landfall by the Si	upervising Offi
MS 2.7 Submit DDA for se awall modificati	· · ·									MS 2.7 Submit DD		4
MS 2.44 Approve DDA for South Ventilati	ion Building by the Supervising Officer											
MS 2.52 Approve DDA for Facilities Provi		andfall built a Quantum i										
	verage, Waterworks and Utilities at Northern La ntenance Manual for all Tunnels and Cross Pa											
	nce Manual for all Tunnels and Cross Passga				L 							
MS 2.71 Submit draft Operation and Mair	ntenance Manual for all works except Tunnels	and Cross Passgaes										
· · ·	nce Manual for all works except Tunnels and C											
	and Back-up Equipment for TBM d Tunnel from Site after the completion of TBM			MS 3 1 6 Berroy	al of TBM for Southb	ound Tunnel fr	m Site	a after the completion	of TBM Tunnel			
	nd Tunnel from Site after the completion of TBI							und Tunnel from Site		of TBM Tunnel		
MS 3.1.25 Demolition of Slurry Treatment	t Plant on completion			4	MS 3.1.25 Demolit	ion of Slurry Tre	atme	nt Plant on completio	n			
· · ·	vities under this Cost Centre Part to the satisfac	ction of the Supervisin										
TBM Tunnel MS 3.3.4 Complete walls of retrieval shaft	1											
·	on level for retrieval shaft and complete casting	of base slab	ormat	on level for retrieva	al shaft and complete	casting of base	slab					
MS 3.3.6 Complete all necessary works o	f retrieval shaft to facilitate retrieval of TBM		vorks	of retrieval shaft to	acilitate retrieval of T	вм						
	port and permanent lining for 60% of the total				1							
	port and permanent lining for 62.5% of the tota port and permanent lining for 65% of the total	0 (U 1	isured on plan) of the							
	port and permanent lining for 67.5% of the total				sured on plan) of the							
MS 3.3.49 Completion of excavation, sup	port and permanent lining for 70% of the total	length (measured on I										
	port and permanent lining for 72.5% of the tota			-			1 i					
	port and permanent lining for 75% of the total port and permanent lining for 77.5% of the tota		1 1			1						
	port and permanent lining for 80% of the total						÷					
	port and permanent lining for 82.5% of the tota				nt lining for 82.5% of		r :					
	port and permanent lining for 85% of the total					1						
	port and permanent lining for 87.5% of the tota port and permanent lining for 90% of the total				nt lining for 87.5% of nt lining for 90% of th	1	î !					
	port and permanent lining for 92.5% of the total				ent lining for 92.5% o	·	+					
MS 3.3.59 Completion of excavation, sup	port and permanent lining for 95% of the total	length (measured on I	mple	tion of excavation, s	support and permane	ent lining for 959	% of th	e total length (meas	ured on plan) of the	N		
	port and permanent lining for 97.5% of the tota		· ·		support and permane		1		• •	1		
	port and permanent lining for 100% of the tota oport and permanent lining for 87.5% of the to				support and permane of the total length (me		I 1	he total length (mea	sured on plan) of the	9		
	pport and permanent lining for 90% of the tota						<u>_</u>	ured on plan) of the				
MS 3.3.113 Completion of excavation, sup	pport and permanent lining for 92.5% of the to	tal length (measured (on, si	pport and perman	ent lining for 92.5% c	the total lengt	h (me	asured on plan) of th				
	oport and permanent lining for 95% of the tota				1	1		1				
	pport and permanent lining for 97.5% of the to pport and permanent lining for 100% of the tot		1 1			1						
	ctures for 50% of total length (measured on pla									rthbound TBM Tunne		
	ctures for 75% of total length (measured on pla				1 1 1			i		lete tunnel internal st	i.	tal length (me
	ctures for 50% of total length (measured on pl			MS 3.3.122 Com	plete tunnel internal	structures for 50	% of¦t			uthbound TBM Tunn	1	
MS 3.3.123 Complete tunnel internal stru Cross Passages for TBM Tunne	ctures for 75% of total length (measured on pl	an) of the Southbound			1 1 1			•	MS 3.3.123 Comp	lete tunnel internal st	ructures for 75% of to	אמו iength (me
¥	en nent for excavation of all Type 1 Cross Passage	es(Percentage to be c	l treat	ment for excavatior	of all Type 1 Cross P	assages(Perce	ntage	to be certified for 50	%			
MS 3.3.2 Complete 100% of ground treat	tment for excavation of all Type 1 Cross Passag	ges(Percentage to be							•	MS 3.3.2 Complete	100% of ground tre	atment for exc
	nent for excavation of all Type 2 Cross Passage	, ,	l treat	ment for excavatior	of all Type 2 Cross P	assages(Perce	ntage					
	tment for excavation of all Type 2 Cross Passaged and support for all Type 1 Cross Passages(Perce		onlote	50% of excevation	and support for all T	vne 1 Cross Pa		· · · · · · · · · · · · · · · · · · ·		e 100% of ground tre	atment for excavation	n of all Type 2
	and support for all Type 1 Cross Passages(Per		101010			10035 Fa				MS 3.3.6 Complete	4100% of excavation	and support f
	nd support for all Type 2 Cross Passages(Perce	•	nplete	50% of excavation	and support for all T	ype 2 Cross Pa	ssage	s(Percentage to be c				
	ning and internal structures for all Type 1 Cross				1		I 1			Percentage to be certi	1	
MS 3.3.11 Complete 50% of permanent li Cut-and-cover Tunnels at Sout	ining and internal structures for all Type 2 Cros	ss Passages(Percenta		•	MS 3.3.11 Comple	te 50% of perm	anent	lining and internal st	ructures for all Type	2 Cross Passages(P	ercentage to be certi	t.
	neasured on plan) of temporary retaining walls	for excavation of Cut-					<u>+</u>					
MS 4.1.2 Complete 20% of total length (m	neasured on plan)of temporary retaining walls	for excavation of Cut-			1 1 1							
	neasured on plan) of temporary retaining walls				1 1 1							
	neasured on plan) of temporary retaining walls neasured on plan) of temporary retaining walls											
	neasured on plan) of temporary retaining walls											
		1					• • •	I		Date	Bevision Locust	ad Areas
Page 1 of 13	Planned Bar	TMCLK - Nort	herr	Connection	Sub-Sea Tun	inel Sectio	n			08-Apr-14 TMCLK/DBJG	Revision Checks EN/PRG/98507 WYu EN/PRG/98507 Rev.B SPa	ed Approved SPo WYu
Project ID: TMCLK DWPF 17W16	Planned Bar - Critical Planned Milestone	Deta	iled	Works Proa	ramme (Rev. F	=)		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		28-Aug-14 TMCLK/DBJG	EN/PRG/98507 Rev.C CLa EN/PRG/98507 Rev.F WYu	WYu
Data Date: 23-Apr-17	Planned Milestone Progress bar			C C	,	,		Dragages HongKong	BOUYGUES TRAVAUX PUBLICS			
Jala Dale. 23-Apr-17	Progress Milestone	Thi	ree l	Months Rollin	ng Programme	e	A mer	riber of the Bouygues Construction group 1gages - Bouygues Joint Venture	寶嘉 - 布依格聯營			
			Pro	ogress as of	23-Apr-17							
		1	1 10	-9:000 as UI			1			1		

Activity	Name										
			Eab	Mor	A		2017	lue	lul.	Δυσ	Con
	MS 4.1.7 Complete 70% of total length (measured on plan) of temporary retaining walls for excavation of Cut-		Feb	Mar	Apr	-	May	Jun	Jul	Aug	Sep
	MS 4.1.7 Complete 70% of total length (measured on plan) of temporary retaining walls for excavation of cut-			1 1 1	1	1	1		1 1 1	1 1 1	1
				1			1	1	1 1 1	1	
	MS 4.1.9 Complete 90% of total length (measured on plan) of temporary retaining walls for excavation of Cut			1		1	1		1 1 1		
	MS 4.1.10 Complete 100% of total length (measured on plan) of temporary retaining walls for excavation of C						; !				;
	MS 4.1.11			1					1		
	MS 4.1.12 Complete 40% of excavation for Cut-and-cover tunnel			1	1			1	 	1	
	MS 4.1.13 Complete 60% of excavation for Cut-and-cover tunnel	ver tu	nnel	1					1 1 1	1	1
	MS 4.1.14 Complete 80% of excavation for Cut-and-cover tunnel	mplet	e 80% of excavation	n for Cut-and-cover	unnel		1			1	
	MS 4.1.15 Complete 100% of excavation for Cut-and-cover tunnel			1	1	ovati	on for Cut-and-cover	tunnel			
	· · · · · · · · · · · · · · · · · · ·										
	MS 4.1.16 Complete permanent tunnel structure for 10% of the total length (measured on plan) of Cut-and-cc			1	1			1	1 1 1	1	
	MS 4.1.17 Complete permanent tunnel structure for 20% of the total length (measured on plan) of Cut-and-cc			1					1 1 1	1	
	MS 4.1.18 Complete permanent tunnel structure for 30% of the total length (measured on plan) of Cut-and-cc	meas	ured on plan) of Cu	t-and-cover Tunnel							
	MS 4.1.19 Complete permanent tunnel structure for 40% of the total length (measured on plan) of Cut-and- ∞	meas	ured on plan) of Cu	t-and-cover Tunnel							
	MS 4.1.20 Complete permanent tunnel structure for 50% of the total length (measured on plan) of Cut-and-cc	% of t	he total length (me	asured on plan) of C	t-and-cover Tu	unnel	1	1	1 1 1	1	
	MS 4.1.21 Complete permanent tunnel structure for 60% of the total length (measured on plan) of Cut-and-cc				h		f the total length (me	asured on plan) of C	ut-and-cover Tunnel	/	
-	MS 4.1.22 Complete permanent tunnel structure for 70% of the total length (measured on plan) of Cut-and- ∞				1					i I and accord Toward	
_				i i	i i		i		sured on plan) of Cut	i i i i i i i i i i i i i i i i i i i	
	MS 4.1.23 Complete permanent tunnel structure for 80% of the total length (measured on plan) of Cut-and-cc		4	MS 4.1.23 Comple	te permanent tu	tunne	structure for 80% of	the total length (mea	sured on plan) of Cut	and-cover Tunnel	
	MS 4.1.24 Complete permanent tunnel structure for 90% of the total length (measured on plan) of Cut-and-cc				MS 4.1.24 Co	mple کر	ete permanent tunnel	structure for 90% of	the total length (meas	sured on plan) of Cut	and-cover Tu
	MS 4.1.25 Complete permanent tunnel structure for 100% of the total length (measured on plan) of Cut-and-c							4	MS 4.1.25 Complet	e permanent tunnel	structure for 1
	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			1			1		1 1 1		
				1		1	1	-	MS 4 1 00 0	l l	d officient
	MS 4.1.28 Complete permanent junction structure at interface between Cut-and-cover Tunnel and TBM Tunn								MS 4.1.28 Complet	e permanent junction	structure at
	MS 4.1.29 Complete pavement for 50% of the total length (measured on plan) of Cut-and-cover Tunnel	mplet	te pavement for 50	% of the total length (measured on p	olan) (of Cut-and-cover Tun	hel	1 		
	MS 4.1.30 Complete pavement for 100% of the total length (measured on plan) of Cut-and-cover Tunnel							4	MS 4.1.30 Complet	e pavement for 100%	of the total l
	MS 4.1.31 Complete the whole of the activities under this Cost Centre to the satisfaction of the Supervising Off					1		4	MS 4.1.31 Complete	e the whole of the ac	tivities under 1
	Cut-and-cover Tunnel at Northern Landfall			1		1		•			
	MS 4.2.22 Complete tunnel internal structure for 50% of NB Northern Landfall TBM Tunnel					1			1 1 1		
	· · ·					1	-		1 1		
	MS 4.2.23 Complete tunnel internal structure for 100% of NB Northern Landfall TBM Tunnel	1	3M Tunnel			1	1			1	
	MS 4.2.25 Complete tunnel internal structure for 100% of SB Northern Landfall TBM Tunnel	al stru	cture for 100% of S	B Northern Landfall	TBM Tunnel		, 				
	MS 4.2.29 Complete 100% of permanent lining and internal structures for all Northern Landfall Cross Passag	ernal	structures for all No	rthern Landfall Cros	Passages	1			· · · · · · · · · · · · · · · · · · ·		
	MS 4.2.30 Complete Permanent tunnel structure for 25% of Cut and Cover Tunnel								1		
	MS 4.2.31 Complete Permanent tunnel structure for 50% of Cut and Cover Tunnel	unne	1						1		
	· · ·	1							1		
	MS 4.2.32 Complete Permanent tunnel structure for 75% of Cut and Cover Tunnel	innel i	structure for 75% o	f Cut and Cover Tunr	iel						
	MS 4.2.34 Complete Permanent junction structure at interface between Cut-and-cover and TBM Tunnel			, 			, , 1	, , 1	; /	; /	
	Approach Ramp Structures to Cut-and-cover Tunnel at Southern Landfall								 		
	MS 5.1.2 Complete 40% of excavation for approach ramp structures								1 1		
	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								1 1 1		
									1		
	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 ram $\!$					1					
	MS 5.1.7 Complete retaining wall foundation for 20% of the total length (measured on plan) of approach ram										
	MS 5.1.8 Complete retaining wall foundation for 30% of the total length (measured on plan) of approach ram								1		
									1		
	MS 5.1.9 Complete retaining wall foundation for 40% of the total length (measured on plan) of approach ram								1		
	MS 5.1.10 Complete retaining wall foundation for 50% of the total length (measured on plan) of approach rar			, , ,			, , ,	, , 1	, , ,		
	MS 5.1.11 Complete retaining wall foundation for 60% of the total length (measured on plan) of approach ran					1) 		
	MS 5.1.12 Complete retaining wall foundation for 70% of the total length (measured on plan) of approach rar										
	MS 5.1.13 Complete retaining wall foundation for 80% of the total length (measured on plan) of approach rar								1		
									1		
	MS 5.1.14 Complete retaining wall foundation for 90% of the total length (measured on plan) of approach rar	į							 		
	MS 5.1.15 Complete retaining wall foundation for 100% of the total length (measured on plan) of approach ra								1		
	MS 5.1.16 Complete retaining wall structure for 10% of the total length (measured on plan) of approach ramp							MS 5.1.16 Comple	te retaining wall strue	ture for 10% of the to	tal length (me
	MS 5.1.17 Complete retaining wall structure for 20% of the total length (measured on plan) of approach ramp	į						MS 5.1.17 Comple	te retaining wall strue	; ture for 20% of the to	tal length (me
	MS 5.1.18 Complete retaining wall structure for 30% of the total length (measured on plan) of approach ramp			1					MS 5.1.18 Complet	i	
									1		1
	MS 5.1.19 Complete retaining wall structure for 40% of the total length (measured on plan) of approach ramp							•	MS 5.1.19 Complet	e retaining wall struc	ture for 40% o
	At grade Roads at Southern Landfall			, , ,,			, 		; ; /	; /	
	MS 6.1.13 Complete drainage installation of 20% length of total length (measured on plan) of drainage pipes							4	MS 6.1.13 Complet	e drainage installatio	n of 20% leng
	At grade Roads at Northern Landfall					1			- - -		
	MS 6.2.1 Complete sub-base works of 20% of total area of at grade roads								MS 6.2.1 Complete	sub-base works of a	0% of total ar
	· · · · ·				Monster		to draine and the	1	1	1	
	MS 6.2.13 Complete drainage installation of 20% length of total length (measured on plan) of drainage pipes				1	1.1			otal length (measure	1	1.1.1
	MS 6.2.17 Complete sewerage installation of 20% length of total length (measured on plan) of sewerage pipe				MS 6.2.17 Co	cmpl	ete sewerage installat	tion of 20% length of	total length (measure	d on plan) of sewera	ige pipes
	MS 6.2.21 Complete watermains installation of 20% length of total length (measured on plan) of watermains						4	MS 6.2.21 Comple	ete watermains install	ation of 20% length c	f total length (
	South Ventilation Buildings								1 1	-	-
	MS 7.1.1 Complete 100% of cofferdam for excavation			1				1	1	1	ļ
	MS 7.1.2 Complete 100% of excavation to the formation level					1			1		i.
						1	1		1 1 1	1	
	MS 7.1.3 Complete 100% of foundation for the ventilation building			i 				i 	; {	 	
	MS 7.1.4 Complete concreting works of 25% area of the total construction floor area for the ventilation building	e total	construction floor a	area for the ventilatio	n building					1	
	MS 7.1.5 Complete concreting works of 50% area of the total construction floor area for the ventilation building	nplete	concreting works	of 50% area of the to	al construction	foor	area for the ventilation	n building	1 1 1		
	MS 7.1.6 Complete concreting works of 75% area of the total construction floor area for the ventilation building			j.	i		i		ea for the ventilation	building	
	MS 7.1.7 Complete concreting works of 100% area of the total construction floor area for the ventilation buildin						1	1	al construction floor a		building
					, ivio 7.1.7 UOI	. piel					- containing
	North Ventilation Buildings	<u> </u>		, }			; ; ;	¦			¦
	MS 7.2.4 Complete concreting works of 25% area of the total construction floor area for the ventilation building					1	-				1
	MS 7.2.5 Complete concreting works of 50% area of the total construction floor area for the ventilation building	e total	construction floor a	area for the ventilatio	h building	1	1		1	1	
	MS 7.2.6 Complete concreting works of 75% area of the total construction floor area for the ventilation building	nplete	concreting works	of 75% area of the tot	al construction	foor	area for the ventilation	n building	1 1 1	1	
	MS 7.2.7 Complete concreting works of 100% area of the total construction floor area for the ventilation buildin		U - U	1	1		1	1	al construction floor a	rea for the ventilation	building
	Facilities Provision for TCSS for At Grade Roads at Northern Landfall						, <u>1</u> 	<u> </u>			
	MS 8.2.5 Complete 25% of support foundation, ductings, drawpits for at grade roads						-	•	MS 8.2.5 Complete	25% of support four	dation, ductir
	Facilities Provision for E&M Works for TBM Tunnel, Cut & Cover Tunnels and Cu					1			1 		
	MS 9.1.1 Complete 25% of bonding terminal, opening and accessories, etc.			1		1			1		
	MS 9.1.2 Complete 25% of plinth, hoisting facilities and accessories, etc.					1			1	1	1
			10					1	1 1 1	1	
	MS 9.1.3 Complete 50% of bonding terminal, opening and accessories, etc.		MS 9.1.3 Comple	te 50% of bonding t	erminal, openin	ng ang	accessories, etc.	¦			
	MS 9.1.4 Complete 50% of plinth, hoisting facilities and accessories, etc.		MS 9.1.4 Comple	ete 50% of plinth, hoi	sting facilities ar	ur <mark>d ac</mark>	cessories, etc.		1	1	
	MS 9.1.5 Complete 75% of bonding terminal, opening and accessories, etc.						MS 9.1.5 Complete	75% of bonding terr	ninal, opening and a	cessories, etc.	-
	MS 9.1.6 Complete 75% of plinth, hoisting facilities and accessories, etc.						1	-	ng facilities and acces	i i i i i i i i i i i i i i i i i i i	}
				1						1	
	Facilities Provision for E&M Works for South Ventilation Building			1					1 1 1		
	MS 9.4.1 Complete 25% of bonding terminal, main earth mat, clean earth mat, earth pit, lightning pit, conceal	}				.	4	MS 9.4.1 Complet	e 25% of bonding ter	minal, main earth ma	t, clean earth
	MS 9.4.2 Complete 25% of plinth, hoisting facilities, louver, wire mesh and accessories, etc.					1	4	MS 9.4.2 Complet	e 25% of plinth, hoisti	ng facilities, louver, w	re mesh and
	MS 9.4.3 Complete 25% of floor drain, water tank and accessories, etc.			1			•	MS 9.4.3 Complet	e 25% of floor drain, v	vater tank and acces	sories, etc.
	Facilities Provision for E&M Works for North Ventilation Building					1			···.		
						-			1		<u> </u>
200 2	of 13 TMCLK - Nort		0	0 L 0 T		- 1			Date	Revision Checke	d Approved

Page 2 of 13		Planned Bar	TMCLK - Northern Connection Sub-Sea Tunnel Section		Date 12-Feb-14	Revision TMCLK/DBJGEN/PRG/98507	Checked WYu	Approved
Project ID: TMCLK DWPF 17W16	•	Planned Bar - Critical Planned Milestone	Detailed Works Programme (Rev. F)		08-Apr-14 28-Aug-14 30-Od-15	TMCLK/DBJGEN/PRG/98507 Rev. B TMCLK/DBJGEN/PRG/98507 Rev. C TMCLK/DBJGEN/PRG/98507 Rev. F	CLa	WYu WYu
Data Date: 23-Apr-17	•	Progress barProgress Milestone	Three Months Rolling Programme	Dragages - Bouygues Joint Venture 寶藟 - 布依格聯盟				
			Progress as of 23-Apr-17					

Activity Name									
		Feb	Mar	Apr	2017	lup	l lul	Aug	Sep
MS 9.5.1 Complete 25% of bonding terminal, main earth mat, clean earth mat, earth pit, lightning pit, conceal	┦──┦	гер	Iviai	Apr	May MS 9.5.1 Complete	25% of bonding terr	Jul ninal, main earth ma	Aug clean earth mat, ea	-
MS 9.5.2 Complete 25% of plinth, hoisting facilities, louver, wire mesh and accessories, etc.	- 1				MS 9.5.2 Complete	-			
MS 9.5.3 Complete 25% of floor drain, water tank and accessories, etc.	;				MS 9.5.3 Complete	+			4
MS 9.5.4 Complete 50% of bonding terminal, main earth mat, clean earth mat, earth pit, lightning pit, conceal						4	MS 9.5.4 Complete	50% of bonding ter	minal, main ear
MS 9.5.5 Complete 50% of plinth, hoisting facilities, louver, wire mesh and accessories, etc.						•	MS 9.5.5 Complete	50% of plinth, hoisti	ng facilities, lou
MS 9.5.6 Complete 50% of floor drain, water tank and accessories, etc.						•	MS 9.5.6 Complete	50% of floor drain,	water tank and a
Construction		1							
Northern Landfall			/						
North Reclamation (Phase 1)									
Construction									
Zone C1		1							
Reclamation		 	 		, , ,	, , , ,	1 1 1	1 1 1	
Surcharge Removal - Zone C1 - (CH493 to 543)						Surcharge Re	moval - Zone C1 - (C	H493 to 543)	
Surcharge Removal - Zone C1 - (CH493 to 543)	_ ;					Surcharge Re	emoval - Zone C1 - (C	H493 to 543)	
Zone C2									
Reclamation		1						1	
Surcharge Removal - Zone C2 - (CH543 to 598)						Surcharge Re	emoval - Zone C2 - (0	2H543 to 598)	
Zone B									
Reclamation Surcharge Removal - Zone B - (CH598 to 648)	-								
Surcharge Removal - Zone B - (CH598 to 698) stage 1	-								
Surcharge Period - Zone B - (CH648 to 698) stage 2	_	Surcharge P	eriod - zone B - (CHo		2	1			
Surcharge Removal - Zone B - (CH598 to 698) stage 2			harge Removal - Zon						
Zone F				,			1 1		
CH184 to CH231							1 1 1		
F - Anchor wall Installation - CH184 to CH231							, 		
F - Backfilling up to 0.0mPD & G2 Installation to Andhor Wall- CH184 to CH231						 	 		
F - Backfilling up to +3.0mPD & G1 Installation to Anchor Wall- CH184 to CH231									
F - Backfilling up to +6.0mPD to Anchor Wall - CH184 to CH231							 		
F - Backfilling to +6.0mPD to Existing Seawall - CH184 to CH231	_								
CH231 to CH278	4						 		
F - Backfilling up to +6.0mPD - CH231 to CH278	4!								
F - Anchor wall Installation - CH231 to CH278	_								
F - Backfilling up to 0.0mPD & G2 Installation to Anchor Wall- CH231 to CH278	-						i 1 1		
F - Backfilling up to +3.0mPD & G1 Installation to Anchor Wall - CH231 to CH278 F - Backfilling up to +6.0mPD to Anchor Wall - CH231 to CH278	_								
F - Backfilling to +6.0mPD to Existing Seawall - CH231 to CH278	- 1								
CH278 to CH327			!						
F - Backfilling up to +6.0mPD - CH278 to CH327									
F - Anchor wall Installation - CH278 to CH327									
F - Backfilling up to 0.0mPD & G2 Installation to Anchor Wall - CH278 to CH327							i I I		
F - Backfilling up to +3.0mPD & G1 Installation to Anchor Wall - CH278 to CH327									
F - Backfilling up to +6.0mPD to Anchor Wall - CH278 to CH327	- ;						1 1 1		
F - Backfilling to +6.0mPD to Existing Seawall - CH278 to CH327	_								
CH327 to CH381 F - Backfilling up to +6.0mPD - CH327 to CH381							1		
F - Anchor wall Installation - CH327 to CH381	-								
F - Backfilling up to 0.0mPD & G2 Installation to Andhor Wall - CH327 to CH381									
F - Backfilling up to +3.0mPD & G1 Installation to Anchor Wall - CH327 to CH381	-								
F - Backfilling up to +6.0mPD to Anchor Wall - CH327 to CH381	-								
F - Backfilling to +6.0mPD to Existing Seawall - CH327 to CH381	_								
Box Culvert Extension		, , , ,	· ·				, , ,		
Construction									
Ch000-010 Culvert Outfall									
Removal of temporary bulk head CH100-150 Land Section	_								
Pile A41/A39 CJ to Pile A39/A37 CJ									
Box Culvert Structure						+			
Pile cap construction	-) 		
Base slab construction including kicker									
Removal of strut S1							1 1 1		
Sliding formworks 1 st assembly									
Walls & top slab construction	-								
Removal of strut S2 & Backfilling up to required level						 	 		
Pile A39/A37 CJ to Pile A37/A35 CJ Box Culvert Structure	-						1 1 1		
Pile cap construction									
Base slab construction including kicker					;			 ! !	
Removal of strut S1									
Walls & top slab construction									
Removal of strut S2 & Backfilling up to required level							, 		
Pile A37/A35 CJ to Pile A35/A33 CJ	4 !								
Box Culvert Structure	_ ;						 		
Pile cap construction Base slab construction including kicker									
Removal of strut S1	-						1 1		
Walls & top slab construction							1 1 1		
Removal of strut S2 & Backfilling up to required level	1					•	,	·····	
Pile A35/A33 CJ to Pile A33/P117 CJ						1	1 1 1		
Box Culvert Structure	_ i					1 1 1	1 1 1		
Pile cap construction	_					1	1		1
Base slab construction including kicker	<u> </u>		1 1 1 1			: ; ; ;	, , ,	, , ,	
Removal of strut S1 Walls & top slab construction	-								
Removal of strut S2 & Backfilling up to required level							1 1 1		
Ch150-250 Marine Section									
ELS & Structure							1 1 1		
	rtham	Connection	Sub-Sea Tun	nol Saction	1		Date		ed Approved
	inern	Connection	I SUD-Sea Tun	nel Section			08-Apr-14 TMCLK/DBJG	EN/PRG/98507 WYu EN/PRG/98507 Rev.B SPa	SPo WYu
Project ID: TMCLK DWPF 17W16 Planned Bar - Critical Project ID: TMCLK DWPF 17W16 Deta	ailed	Works Proa	ramme (Rev. F	-)	香寶嘉			EN/PRG/98507 Rev.C CLa EN/PRG/98507 Rev.F WYu	WYu
Progress bar		_			Dragages HongKong	BOUYGUES TRAVAUX PUBLICS			
Data Date: 23-Apr-17 Progress bar Tł	ree l	Months Rolli	ng Programme)	A member of the Bouygues Construction group Dragages - Bouygues Joint Ventur				
	D	ogress as of	02 Arr 17						

Activity Name 2017 Pile A33/P117 CJ to Pile P113/P109 CJ **Box Culvert Structure** Base slab construction including kicker Removal of strut S1 Walls & top slab construction Removal of strut S2 & Backfilling up to required level Pile P113/P109 CJ to Pile P105/P101 CJ **Box Culvert Structure** Walls & top slab construction Removal of strut S2 & Backfilling up to required level Pile P105/P101 CJ to Pile P97/P93 CJ **Box Culvert Structure** Base slab construction including kicker Removal of strut S1 Walls & top slab construction Removal of strut S2 & Backfilling up to required level Pile P97/P93 CJ to Pile P89/P85 CJ **Box Culvert Structure** Walls & top slab construction Removal of strut S2 & Backfilling up to required level Pile P89/P85 CJ to Pile P81/P77 CJ **Box Culvert Structure** Base slab construction including kicker Removal of strut S1 Walls & top slab construction Ch250-380 Marine Section **ELS & Structure** Band Drain - 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 Public Fill - Phase 2 Reclamation - along combi wall system Pile P73/P69 CJ to Pile P65/P61 CJ ELS Excavation to 0.5m below strut S1 Excavation to 0.5m below strut S1 Installation of strut S1 Installation of strut S1 Excavation to FEL Excavation to FEL **Box Culvert Structure** Base slab construction including kicke Base slab construction including kicker Removal of strut S1 Removal of strut S1 System FormworkAssmebly & Setup System Formwork Assmebly & Setup Walls & top slab construction Walls & top slab construction Removal of strut S2 & Backfilling up to required level Removal of strut S2 & Backfilling up to required level Pile P65/P61 CJ to Pile P57/P53 CJ ELS Excavation to 0.5m below strut 61 Excavation to 0.5m below strut S1 Installation of strut S1 Installation of strut S1 Excavation to FEL Excavațion to FEL **Box Culvert Structure** Base slab construction including kicker Base slab construction including kicker Removal of strut S1 Removal of strut S1 Walls & top slab construction Walls & top slab construction Removal of strut S2 & Backfilling up to required level Removal of strut S2 & Backfilling up to required level Pile P57/P53 CJ to Pile P49/P45 CJ ELS Excavation to 0.5m below strut S1 Excavation to 0.5m below strut \$1 Installation of strut S1 Installation of strut S1 Excavation to FEL Excavation to FE **Box Culvert Structure** Base slab construction including kicker Base slab construction including kicker Removal of strut S1 Removal of strut S1 Walls & top slab construction Walls & top slab construction Removal of strut S2 & Backfilling up to required level Removal of strut S2 & Backfilling up to required level Pile P49/P45 CJ to Pile P41/P37 CJ **ELS** Excavation to 0.5m below strut S1 Excavation to 0.5m below strut S1 Installation of strut S1 Installation of strue S1 Excavation to FEL Excavation to FEL **Box Culvert Structure** Base slab construction including kicker Base slab construction including kicker Removal of strut S1 Removal of strut S1 Walls & top slab construction Walls & top slab construction Removal of strut S2 & Backfilling up to required level Removal of strut S2 & Backfilling up to required level Pile P41/P37 CJ to Pile P33/P29 CJ ELS Excavation to 0.5m below strut S1 Excavation to 0.5 m below strut S1

Excavation to FEL				Exc	avat <mark>i</mark> on t	o FEL		1				
Box Culvert Struct	ture			· · · · · · · · · · · · · · · · · · ·	1	T	T	}				
Base slab construction i	ncluding kicker					Base slab construction	including kicker	-				
Removal of strut S1						Removal of strut S1						
Walls & top slab constru	Iction						Walls & top slab	onstructio	'n			
Removal of strut S2 & B	ackfilling up to required level		1			1 1 1	Remova	al of strut S	2 & Backfilling	up to require	d level	
Pile P33/P29 CJ to F	Pile P25/P21 CJ							}				
ELS												
Excavation to 0.5m belo	w strut S1			Excavat	ion t <mark>o</mark> 0.5	im below strut S1						
Installation of strut S1				lns	tallation of	of strut S1	1	1				
Excavation to FEL			1		Exca	vation to FEL	1 1 1	1				
Box Culvert Struct	ture					1 	 	1				
Base slab construction i	ncluding kicker					Base slab const	ruction including kic	ker				
	1	1				•		Date	Revisio	ion	Checked	Approved
Page 4 of 13	Planned Bar	TMCLK - Nort	hern Connectior	n Sub-Sea Tunnel Sec	tion			12-Feb-14	TMCLK/DBJGEN/PB			SPo
l ŭ	Flaimed Bai							08-Apr-14		RG/98507 Rev.B SPa		WYu

Project ID: TMCLK DWPF 17W16

Installation of strut S1

Data Date: 23-Apr-17

Planned Bar
 Planned Bar
 Planned Bar
 Planned Bar - Critical
 ◆ Planned Milestone
 Progress bar
 ◆ Progress Milestone
 Progress as of 23-Apr-17

Installation of strut S1

ty Name						2017				
Removal of strut S1	-	Feb	Mar	Apr	-	May Removal of s		Jul	Aug	Sep
Walls & top slab construction	_			1 1 1				slab construction	1 1	
Removal of strut S2 & Backfilling up to required level	-				J			Removal of st	¦ tut S2 & Backfilling u	¦ in to requi
Pile P25/P21 CJ to Pile P17/P13 CJ										
ELS						1				
Excavation to 0.5m below strut S1				Excav	/ation	to 0.5m below strut S	; ;1			
Removal of Ch365 Sheet Pile Wall Anchor Wall (Stage 1)					Rem	oval of Ch365 Sheet	Pile Wall Anchor W	/all (Stage 1)	1 1 1	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					Insta	llation of strut S1	· · · · · · · · · · · · · · · · · · ·			
Excavation to FEL	_				E E	xcavation to FEL				
Removal of Ch365 Sheet Pile Wall Anchor Wall (Stage 3)	_					Removal of Ch	365 Sheet Pile Wa	I Anchor Wall (Stage	່3)	
Box Culvert Structure							1			
Base slab construction including kicker	-					Base s	ab construction incl	uding kicker		
Removal of strut S1		1			1	Re Re	emoval of strut S1			
Walls & top slab construction	_			 		1 1		Walls & top slab co	nstruction	
Removal of strut S2 & Backfilling up to required level	_			1		1	1		Removal of strut S2	& Backfil
Pile P17/P13 CJ to Pile P09/P05 CJ						1 1 1		1		
ELS										
Excavation to 0.5m below strut S1						Excavation to 0.5	m below strut S1			
Installation of strut S1	_					Installation	on of strut S1	1	1 1	
Excavation to FEL				1		E	xcavation to FEL		1 1 1	
Box Culvert Structure										
Base slab construction including kicker	_						Base slab o	construction including	kicker	
Removal of strut S1				 			Rem	ioval of strut S1		1
Walls & top slab construction						1	-	Walls	& top slab constructi	ion
Pile P09/P05 CJ to End Wall CJ						1				
ELS						, 				
Excavation to 0.5m below strut S1				 		Excavation to (5.5m below strut S1			
Installation of strut S1					1		Installation of strut	\$1		
Excavation to FEL							Excavation	to FEL		
Box Culvert Structure						1				
Base slab construction including kicker						1 1 1	Bas	e slab construction in	cluding kicker	
Removal of strut S1								Removal of stru	it S1	
Walls & top slab construction					1				Walls & top slab	construc
Miscellaneous works						1 1		1		
Inspection Manhole (IM)						1 1		1		
Inspection Manhole IM-01 to IM-04 & backfilling to +6.0mPD	-					1				
Stop Log Opening (SLO)										
SLO-01 to SLO-05 & backfilling to +6.0mPD				!						
Balance Hole (BH)				 		1 1		1		
BH-01 to BH-03 & backfilling to +6.0mPD	-					1 1 1				
North Launching Shaft						1 1 1		1		
Design Submission										
(C1) DDA for North C&C Tunnel Permanent Structure				 						
SO's Review						 		1		
SO Approval with Condition Received	_					1 1 1				
North Ventilation Shaft										
Construction										
North Ventilation Shaft Structure						· · · · · · · · · · · · · · · · · · ·				
NVS - ML03 Tunnel Structure						1 1 1		1		
NVS - ML02 Tunnel Structure										
CLP Temporary Substation										
Construction				 		! ! #	¦ + +	 	 	
CLP Substation - Prepare for CLP consent for de-energization	_									
TMCLK VO-008 - Construction of Viaduct Foundations at Portion N6A										
Viaduct Pile Cap										
Construction				1		1		1		
Pier G1b	.			, , 		! ! !		 	1 1 1	
Pile Cap G1b - ELS Foundation	â1b	- ELS Foundation		 		1 1 1		1		
Pile Cap G1b - Removal of Existing ground slab	Cap	G1b - Removal of Ex				, 				
Pile Cap G1b - Excavation & ELS Installation		1	Excavation & ELS Ins			 				
Pile Cap G1b - Blinding Concrete		Pile Cap G	1b - Blinding Concre	te		1 1	 		1 1	
Pile Cap G1b - Rebar & Concreting			Pile Cap G1b - Re			 #				
Pile Cap G1b - Backfilling & Temp Reinstatement			Pile Cap G1	- Backfilling &	Temp	Reinstatement				
Pier H1b			\mathbf{N}			1 1 1				
Pile Cap H1b - ELS Foundation				· ·		- ELS Foundation	 		1 1	
Pile Cap H1b - Removal of Existing ground slab				Pile	Cap	H1b - Removal of Exi	1			1
Pile Cap H1b - Excavation & ELS Installation						*	Excavation & ELS			
						Pile Cap H1	b - Blinding Concre			
Pile Cap H1b - Blinding Concrete		1		1			Pile Cap H1b - F	ebar & Concreting		
Pile Cap H1b - Blinding Concrete Pile Cap H1b - Rebar & Concreting		1				!	Pile Cap H1	b - Backfilling & Temp	Reinstatement	
	_			1	1		1	1	1	
Pile Cap H1b - Rebar & Concreting					1	- 		1	:	
Pile Cap H1b - Rebar & Concreting Pile Cap H1b - Backfilling & Temp Reinstatement										
Pile Cap H1b - Rebar & Concreting Pile Cap H1b - Backfilling & Temp Reinstatement Pier G1c					.		 		 	
Pile Cap H1b - Rebar & Concreting Pile Cap H1b - Backfilling & Temp Reinstatement Pier G1c Pile Cap G1c - Preparation for ELS										
Pile Cap H1b - Rebar & Concreting Pile Cap H1b - Backfilling & Temp Reinstatement Pier G1c Pile Cap G1c - Preparation for ELS Pile Cap G1c - Removal of Existing ground slab										
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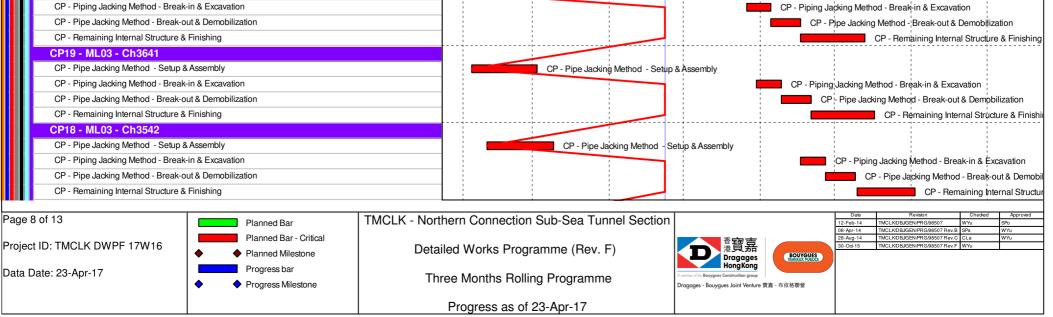
Progress bar ◆ ◆ Progress Milestone Progress as of 23-Apr-17

vity Name									
		Feb	Mar	Apr	20 May	17 Jun	Jul	Aug	Sep
Gantry Removal at North TBM Launching Shaft				- <u>-</u>	Gantry Removal a	it North TBM Launching		L Aug	
Slurry Treatment Plant De commissioning & Removal				;		Slurry Treatment Pla	nt De commissioning &	& Removal	
Gantry Removal at North Ventilation Shaft									
North Approach Tunnel Internal Structure - NB									
NB - North TBM Tunnel - Corbel & Cable Trough installation									
NB - North TBM Tunnel - OHVD Slab installation NB - North TBM Tunnel - Fire proofing and Provision to E&MS and TCSS Contract for KD1	n to	E&MS and TCSS	Contract for KD1						
North Approach Tunnel Internal Structure - SB	n		Contract for KDT						
SB - North TBM Tunnel - Corbel & Cable Trough installation	orbe	& Cable Trough i	nstallation						
SB - North TBM Tunnel - OHVD Slab installation		HVD Slab installat							
SB - North TBM Tunnel - Fire proofing & Provision to E&MS and TCSS Contract for KD1	unne	l- Fire proofing &	Provision to E&MS a	and TCSS Contrac	t for KD1				
North Ventilation Building		1]
Design Submission									
(A11) Submissons to Design Advisory Panel of ArchSD									
ArchSD's comment									
(I1) DDA for North Vent.Bldgs. GBP & Arch.Submission		, ,							
IP's No Objection Received									
SO's Review									
SO Approval with Condition Received				1					
(I1) DDA for North & South Vent.Bldg. ABWF works									
Designer to Reply RtC + Update Submission]
Submit Updated DDA to S O/ ICE/ IPs									
ICE Approval & Issue Check Cert									
Submit ICE Check Cert to SO									
IP's Review									
IP's No Objection Received SO's Review									
SO's Review SO Approval with Condition Received									
(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									
Superstructure					Superstructure				
Finishing Works						, ,		1	
Civil Provision for E&MS Contract									
North Reclamation (Phase 2)									
Construction	_								
VS - Rock Grade 400 - Zone G VS - Levelling Stone & Seawall Block - Zone G	ck Gr	ade 400 - Zone G		undli Diagle Zana					
VS - Leveling Solie & Seawall Block - Zole G VS - Rock Type A - Zone G		VS-Le	evelling Stone & Sea	1	а				
Vertical Seawall - Bermstone - (Zone G)					ermstone - (Zone G)				
Vertical Seawall - Seawall Coping - (Zone G)						Vertical Sea	wall - Seawall Copin	g¦- (Zone G)	
Sand Blanket (Zone G)		Sand Blanket (Zo	ne G)	1				1	1
Band Drain (Zone G)			Band Drain (Zone	e G)					
Reclamation - Phase 2			Reclama	tion - Phase 2					
Backfilling to +10mPD - Phase 2					Backfilling to +1	0mPD - Phase 2			
Surcharge - Phase 2								Surcharge	e ¦ Phase 2
North Surface Roadworks, Utility & Drainage works Construction									
North Landfall - Underground Sewerage & Drainage - Summary	▰								1
North Landfall - Underground Severage & Drainage - Portion N5	_								North Land
Portion N7 - Removal of Barging Point & Surcharge Removal to +6mPD					Portion N7 - R	emoval of Barging Poin	t & Surcharge Remov	al to +6mPD	
North Landfall - Underground Sewerage & Drainage - Portion N7									orth Landfall - L
North Landfall - Watermain & Undergournd Utilities - Summary					1	, ,	i 1	,	1
North Landfall - Watermain & Undergournd Utilities - Zone E							North Landfa	al - Watermain & Un	dergournd Utili
North Landfall - Watermain & Undergournd Utilities - Zone D									N N
North Landfall - Roadworks - Summary	····					·····			
North Landfall - Roadworks - Zone E									North Landfall
Sub-sea Tunnel									
Sub-sea TBM Tunnelling Design Submission									
(G3) DDA for TBM Tunnel Internal Structures (Sub-sea)									
Sub-sea Tunnel - Precast Gallery Fabrication									
Construction									
Sub-sea TBM Tunnel - NB ID12.2m - S881									
NB - Sub-sea TBM Tunnel - ALLUVIUMS silty with Trimix (Ch4200 to 3830 - 370m)	Tunn	el - ALLUVIUMS	silty with Trimix (Ch42	00 to 3830 - 370r	ן)				
NB - Sub-sea TBM Tunnel - ALLUVIUMS sandy with Trimix (Ch3830 to 3710 - 120m)		4	JMS sandy with Trimi		+				
NB - Sub-sea TBM Tunnel - ALLUVIUMS silty with Trimix (Ch3710 to 3590 - 120m)		1	LÜVIUMS silty with Ti						
NB - Sub-sea TBM Tunnel - ALLUVIUMS sandy with Trimix (Ch3590 to 3460 - 130m)			- ALLUVIUMS sand			2)			
NB - Sub-sea TBM Tunnel - ALLUVIUMS silty with Trimix (Ch3460 to 3360 - 100m) NB - Sub-sea TBM Tunnel - ALLUVIUMS sandy with Trimix (Ch3360 to 3160 - 200m)		<u>i </u>	i i	· · · ·	3460 to 3360 - 100n	í i			
NB - Sub-sea TBM Tunnel - ALLUVIUMS sandy with Trimix (Ch3360 to 3160 - 200m) NB - Sub-sea TBM Tunnel - ALLUVIUMS silty with Trimix (Ch3160 to 3060 - 100m)		1	1		vith Trimix (Ch3360 to y with Trimix (Ch3160	1			
NB - Sub-sea TBM Tunnel - ALLUVIUMS silty with Trimix (Ch3060 to 2920 - 140m)			!	!	+	Ch3060 to 2920 - 140m))		
NB - Sub-sea TBM Tunnel - ALLUVIUMS silty with Trimix (Ch2920 to 2820 - 14011)						nix (Ch2920 to 2820 - 1			
NB - Sub-sea TBM Tunnel - ALLUVIUMS sandy with Trimix (Ch2820 to 2720 - 100m)		-				rith Trimix (Ch2820 to 27			
NB - Sub-sea TBM Tunnel - ALLUVIUMS silty with Trimix (Ch2720 to 2673 - 47m)		1				ith Trimix (Ch2720 to 26	<i>,</i>		
NB - Sub-sea TBM Tunnel - ALLUVIUMS silty with Trimix (Ch2673 to 2574 - 99m)			1		1	ilty with Trimix (Ch2673	- I		
NB - Sub-sea TBM Tunnel - ALLUVIUMS silty with Trimix (Ch2574 to 2512 - 62m)				IB¦- Sub-sea TBM	Tunnel - ALLUVIUM	S silty with Trimix (Ch25	74 to 2512 - 62m)		

Page 6 of 13	Planned Bar	TMCLK - Northern Connection Sub-Sea Tunnel Section		Date 12-Feb-14	Revision TMCLK/DBJGEN/PRG/98507	Checked WYu	Approved SPo
Project ID: TMCLK DWPF 17W16	Planned Bar - Critical Planned Milestone	Detailed Works Programme (Rev. F)	た た た で 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: 23-Apr-17	 Progress bar Progress Milestone 	Three Months Rolling Programme	Dragages A methor of the Beorygues Construction group Dragages - Bouygues Joint Venture 寶嘉 - 布依格舉筆				
		Progress as of 23-Apr-17					

	2017 Feb Mar Apr May Jun Jul Aug
S881 - TBM Removal at Southern Landfall	S881 - TBM Removal at Southern Landfall
Sub-sea TBM Tunnel - SB ID12.2m - S882	
SB - Sub-sea TBM Tunnel - ALLUVIUMS silty with Trimix (Ch2741 to 2694 - 47m)	B - Sub-sea TBM Tunnel - ALLUVIUMS silty with Trimix (Ch2741 to 2694 - 47m)
SB - Sub-sea TBM Tunnel - ALLUVIUMS silty with Trimix (Ch2694 to 2595 - 99m)	SB - Sub-sea TBM Tunnel - ALLUVIUMS silty with Trimix Ch2694 to 2595 - 99m)
SB - Sub-sea TBM Tunnel - ALLUVIUMS silty with Trimix (Ch2595 to 2533 - 62m)	SB - Sub-sea TBM Tunnel - ALLUVIUMS silty with Trimix (Ch2595 to 2533 - 62m)
SB - TBM Removal at Southern Landfall	SB - TBM Removal at Southern Landfall
Sub-sea TBM Tunnel - NB - Precast Invert Gallery	
NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP27	cast Invert Gallery - Completion to CP27
NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP26	Precast Invert Gallery - Completion to CP26
NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP25	inel - Precast Invert Gallery - Completion to CP25
NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP24	I Tunnel - Precast Invert Gallery - Completion to CP24
NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP23	TBM Tunnel - Precast Invert Gallery - Completion to CP23
NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP22	-sea TBM Tunnel - Precast Invert Gallery - Completion to CP
NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP21	Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP21
NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP20	NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP20
NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP19	
	NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP19
NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP18	NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP18
NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP17	NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP17
NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP16	NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP16
NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP15	NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP15
NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP14	NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP14
NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP13	NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP13
NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP12	NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP12
NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP11	NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP11
NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP10	NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP10
NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP09	NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Con
NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP08	NB - Sub-sea TBM Tunnel - Precast Invert Gallery
Sub-sea TBM Tunnel - SB - Precast Invert Gallery	
•	M Turned Dresent laund Collins, Consulation to CDO1
SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP21	M Tunnel - Precast Invert Gallery - Completion to CP21
SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP20	a TBM Tunnel - Precast Invert Gallery - Completion to CP20
SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP19	b-sea TBM Tunnel - Precast Invert Gallery - Completion to CP19
SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP18	SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP18
SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP17	SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP17
SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP16	SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP16
SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP15	SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP15
SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP14	SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP14
SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP13	SB - Sub-sea TBM Tunnel Precast Invert Gallery - Completion to CP13
SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP12	SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP12
SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP11	
	SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP11
SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP10	SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP10
SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP09	SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP09
SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP08	SB Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP08
Sub-sea Tunnel Cross Passage & Internal Structure	
CP48 - ML03 - Ch6489 CP - Remaining Internal Structure & Finishing	
CP - Remaining Internal Structure & Finishing CP47 - ML03 - Ch6390	
CP - Remaining Internal Structure & Finishing CP47 - ML03 - Ch6390 CP - Remaining Internal Structure & Finishing	
CP - Remaining Internal Structure & Finishing CP47 - ML03 - Ch6390 CP - Remaining Internal Structure & Finishing CP46 - ML03 - Ch6292	
CP - Remaining Internal Structure & Finishing CP47 - ML03 - Ch6390 CP - Remaining Internal Structure & Finishing CP46 - ML03 - Ch6292 CP - Remaining Internal Structure & Finishing	
CP - Remaining Internal Structure & Finishing CP47 - ML03 - Ch6390 CP - Remaining Internal Structure & Finishing CP46 - ML03 - Ch6292 CP - Remaining Internal Structure & Finishing CP44 - ML03 - Ch6095	
CP - Remaining Internal Structure & Finishing CP47 - ML03 - Ch6390 CP - Remaining Internal Structure & Finishing CP46 - ML03 - Ch6292 CP - Remaining Internal Structure & Finishing CP44 - ML03 - Ch6095 CP - Pipe Jacking Method - Break-out & Demobilization	
CP - Remaining Internal Structure & Finishing CP47 - ML03 - Ch6390 CP - Remaining Internal Structure & Finishing CP46 - ML03 - Ch6292 CP - Remaining Internal Structure & Finishing CP44 - ML03 - Ch6095 CP - Pipe Jacking Method - Break-out & Demobilization CP - Remaining Internal Structure & Finishing	
CP - Remaining Internal Structure & Finishing CP47 - ML03 - Ch6390 CP - Remaining Internal Structure & Finishing CP46 - ML03 - Ch6292 CP - Remaining Internal Structure & Finishing CP44 - ML03 - Ch6095 CP - Pipe Jacking Method - Break-out & Demobilization CP - Remaining Internal Structure & Finishing CP43 - ML03 - Ch5996	
CP - Remaining Internal Structure & Finishing CP47 - ML03 - Ch6390 CP - Remaining Internal Structure & Finishing CP46 - ML03 - Ch6292 CP - Remaining Internal Structure & Finishing CP44 - ML03 - Ch6095 CP - Pipe Jacking Method - Break-out & Demobilization CP - Remaining Internal Structure & Finishing CP43 - ML03 - Ch5996 CP - Pipe Jacking Method - Break-out & Demobilization	
CP - Remaining Internal Structure & Finishing CP47 - ML03 - Ch6390 CP - Remaining Internal Structure & Finishing CP46 - ML03 - Ch6292 CP - Remaining Internal Structure & Finishing CP44 - ML03 - Ch6095 CP - Pipe Jacking Method - Break-out & Demobilization CP - Remaining Internal Structure & Finishing CP43 - ML03 - Ch5996 CP - Pipe Jacking Method - Break-out & Demobilization CP42 - ML03 - Ch5898	
CP - Remaining Internal Structure & Finishing CP47 - ML03 - Ch6390 CP - Remaining Internal Structure & Finishing CP46 - ML03 - Ch6292 CP - Remaining Internal Structure & Finishing CP44 - ML03 - Ch6095 CP - Pipe Jacking Method - Break-out & Demobilization CP - Remaining Internal Structure & Finishing CP43 - ML03 - Ch5996 CP - Pipe Jacking Method - Break-out & Demobilization	
CP - Remaining Internal Structure & Finishing CP47 - ML03 - Ch6390 CP - Remaining Internal Structure & Finishing CP46 - ML03 - Ch6292 CP - Remaining Internal Structure & Finishing CP44 - ML03 - Ch6095 CP - Pipe Jacking Method - Break-out & Demobilization CP - Remaining Internal Structure & Finishing CP43 - ML03 - Ch5996 CP - Pipe Jacking Method - Break-out & Demobilization CP42 - ML03 - Ch5898	
CP - Remaining Internal Structure & Finishing CP47 - ML03 - Ch6390 CP - Remaining Internal Structure & Finishing CP46 - ML03 - Ch6292 CP - Remaining Internal Structure & Finishing CP44 - ML03 - Ch6095 CP - Pipe Jacking Method - Break-out & Demobilization CP - Remaining Internal Structure & Finishing CP43 - ML03 - Ch5996 CP - Pipe Jacking Method - Break-out & Demobilization CP42 - ML03 - Ch5898 CP - Pipe Jacking Method - Setup & Assembly	
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CP - Remaining Internal Structure & Finishing CP47 - ML03 - Ch6390 CP - Remaining Internal Structure & Finishing CP46 - ML03 - Ch6292 CP - Remaining Internal Structure & Finishing CP44 - ML03 - Ch6095 CP - Pipe Jacking Method - Break-out & Demobilization CP - Remaining Internal Structure & Finishing CP43 - ML03 - Ch5996 CP - Pipe Jacking Method - Break-out & Demobilization CP42 - ML03 - Ch5998 CP - Pipe Jacking Method - Steup & Assembly CP - Pipe Jacking Method - Steup & Assembly CP - Pipe Jacking Method - Break-out & Demobilization CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-out & Demobilization CP - Pipe Jacking Method - Steup & Assembly CP - Remaining Internal Structure & Finishing CP39 - ML03 - Ch5703 CP - Pipe Jacking Method - Steup & Assembly CP - Remaining Internal Structure & Finishing CP38 - ML03 - Ch5510 CP - Pipe Jacking Method - Break-out & Demobilization CP - Remaining Internal Structure & Finishing CP37 - ML03 - Ch5413	cture & Finishing Excavation Court & Demobilization
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CP - Remaining Internal Structure & Finishing CP46 - ML03 - Ch6390 CP - Remaining Internal Structure & Finishing CP46 - ML03 - Ch6992 CP - Remaining Internal Structure & Finishing CP44 - ML03 - Ch6095 CP - Pipe Jacking Method - Break-out & Demobilization CP - Remaining Internal Structure & Finishing CP43 - ML03 - Ch5996 CP - Pipe Jacking Method - Break-out & Demobilization CP42 - ML03 - Ch5996 CP - Pipe Jacking Method - Break-out & Demobilization CP42 - ML03 - Ch5998 CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Setup & Assembly CP - Remaining Internal Structure & Finishing CP39 - ML03 - Ch5607 CP - Pipe Jacking Method - Setup & Assembly CP - Remaining Internal Structure & Finishing CP38 - ML03 - Ch5510 CP - Pipe Jacking Method - Setup & Assembly CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-in &	cture & Finishing Excavation Cout & Demobilization g Internal Structure & Finishing & Excavation & Excavation
CP - Remaining Internal Structure & Finishing CP45 - ML03 - Ch6390 CP - Remaining Internal Structure & Finishing CP45 - ML03 - Ch6992 CP - Remaining Internal Structure & Finishing CP44 - ML03 - Ch6095 CP - Pipe Jacking Method - Break-out & Demobilization CP - Remaining Internal Structure & Finishing CP43 - ML03 - Ch5996 CP - Pipe Jacking Method - Break-out & Demobilization CP42 - ML03 - Ch5898 CP - Pipe Jacking Method - Break-out & Demobilization CP42 - ML03 - Ch5898 CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Setup & Assembly CP - Remaining Internal Structure & Finishing CP39 - ML03 - Ch5500 CP - Pipe Jacking Method - Setup & Assembly CP - Remaining Internal Structure & Finishing CP38 - ML03 - Ch5510 CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-	cture & Finishing Excavation out & Demobilization g Internal Structure & Finishing & Excavation & Excavation ak-out & Demobilization
CP - Remaining Internal Structure & Finishing CP46 - ML03 - Ch6390 CP - Remaining Internal Structure & Finishing CP46 - ML03 - Ch6992 CP - Remaining Internal Structure & Finishing CP44 - ML03 - Ch6095 CP - Pipe Jacking Method - Break-out & Demobilization CP - Remaining Internal Structure & Finishing CP43 - ML03 - Ch5996 CP - Pipe Jacking Method - Break-out & Demobilization CP42 - ML03 - Ch5996 CP - Pipe Jacking Method - Break-out & Demobilization CP42 - ML03 - Ch5998 CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Setup & Assembly CP - Remaining Internal Structure & Finishing CP39 - ML03 - Ch5607 CP - Pipe Jacking Method - Setup & Assembly CP - Remaining Internal Structure & Finishing CP38 - ML03 - Ch5510 CP - Pipe Jacking Method - Setup & Assembly CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-in &	cture & Finishing Excavation out & Demobilization g Internal Structure & Finishing & Excavation & Excavation ak-out & Demobilization
CP - Remaining Internal Structure & Finishing CP45 - ML03 - Ch6390 CP - Remaining Internal Structure & Finishing CP45 - ML03 - Ch6992 CP - Remaining Internal Structure & Finishing CP44 - ML03 - Ch6095 CP - Pipe Jacking Method - Break-out & Demobilization CP - Remaining Internal Structure & Finishing CP43 - ML03 - Ch5996 CP - Pipe Jacking Method - Break-out & Demobilization CP42 - ML03 - Ch5898 CP - Pipe Jacking Method - Break-out & Demobilization CP42 - ML03 - Ch5898 CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Setup & Assembly CP - Remaining Internal Structure & Finishing CP39 - ML03 - Ch5500 CP - Pipe Jacking Method - Setup & Assembly CP - Remaining Internal Structure & Finishing CP38 - ML03 - Ch5510 CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-	cture & Finishing Excavation out & Demobilization g Internal Structure & Finishing & Excavation & Excavation ak-out & Demobilization
CP - Remaining Internal Structure & Finishing CP45 - ML03 - Ch6390 CP - Remaining Internal Structure & Finishing CP45 - ML03 - Ch6292 CP - Remaining Internal Structure & Finishing CP44 - ML03 - Ch6095 CP - Pipe Jacking Method - Break-out & Demobilization CP - Remaining Internal Structure & Finishing CP43 - ML03 - Ch5996 CP - Pipe Jacking Method - Break-out & Demobilization CP42 - ML03 - Ch5998 CP - Pipe Jacking Method - Break-out & Demobilization CP42 - ML03 - Ch5998 CP - Pipe Jacking Method - Break-out & Demobilization CP42 - ML03 - Ch5998 CP - Pipe Jacking Method - Break-ina & Excavation CP - Remaining Internal Structure & Finishing CP41 - ML03 - Ch5800 CP - Pipe Jacking Method - Break-ina & Excavation CP - Remaining Internal Structure & Finishing CP41 - ML03 - Ch5800 CP - Pipe Jacking Method - Break-ina & Excavation CP - Pipe Jacking Method - Break-ina & Excavation CP - Remaining Internal Structure & Finishing CP40 - ML03 - Ch5703 CP - Pipe Jacking Method - Break-ina & Excavation CP - Remaining Internal Structure & Finishing CP39 - ML03 - Ch5607 CP - Pipe Jacking Method - Setup & Assembly CP - Remaining Internal Structure & Finishing CP38 - ML03 - Ch5510 CP - Pipe Jacking Method - Break-ina & Excavation CP - Piping Jacking Method - Break-ina & Excavation CP -	cture & Finishing Excavation cout & Demobilization g Internal Structure & Finishing & Expavation pak-out & Demobilization ng Internal Structure & Finishing
CP - Remaining Internal Structure & Finishing CP45 - ML03 - Ch6390 CP - Remaining Internal Structure & Finishing CP46 - ML03 - Ch6292 CP - Remaining Internal Structure & Finishing CP44 - ML03 - Ch6095 CP - Pipe Jacking Method - Break-out & Demobilization CP - Remaining Internal Structure & Finishing CP43 - ML03 - Ch5996 CP - Pipe Jacking Method - Break-out & Demobilization CP42 - ML03 - Ch5998 CP - Pipe Jacking Method - Break-out & Demobilization CP42 - ML03 - Ch5998 CP - Pipe Jacking Method - Break-out & Demobilization CP42 - ML03 - Ch5998 CP - Pipe Jacking Method - Break-out & Demobilization CP - Pipe Jacking Method - Setup & Assembly CP - Remaining Internal Structure & Finishing CP39 - ML03 - Ch5703 CP - Pipe Jacking Method - Setup & Assembly CP - Remaining Internal Structure & Finishing CP38 - ML03 - Ch5510 CP - Pipe Jacking Method - Setup & Assembly CP - Piping Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-in & Excavation CP - Piping Jacking Method - Break-in & Excavation CP - Piping Jacking Method - Break-in & Excavation CP - Piping Jacking Method - Break-out & Demobilization CP - Piping Jacking Method - Break-out & Demobilization	cture!& Finishing Excavation cout & Demobilization g Internal Structure & Finishing & Excavation ak-opt & Demobilization ng Internal Structure & Finishing d - Break-in & Excavation
CP - Remaining Internal Structure & Finishing CP44 - ML03 - Ch6390 CP - Remaining Internal Structure & Finishing CP44 - ML03 - Ch6095 CP - Pipe Jacking Method - Break-out & Demobilization CP - Remaining Internal Structure & Finishing CP43 - ML03 - Ch5096 CP - Pipe Jacking Method - Break-out & Demobilization CP43 - ML03 - Ch5996 CP - Pipe Jacking Method - Break-out & Demobilization CP43 - ML03 - Ch5997 CP - Pipe Jacking Method - Break-out & Demobilization CP42 - ML03 - Ch5998 CP - Pipe Jacking Method - Break-out & Demobilization CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-out & Demobilization CP - Pipe Jacking Method - Break-out & Demobilization CP - Pipe Jacking Method - Break-out & Demobilization CP - Pipe Jacking Method - Setup & Assembly CP - Pipe Jacking Method - Break-out & Demobilization CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking	cture'& Finishing Excavation Courd & Demobilization g Internal Structure & Finishing & Excavation ak-out & Demobilization ng Internal Structure & Finishing d - Break-in & Excavation CP - Remaining Internal Structure & Finishing
CP - Remaining Internal Structure & Finishing CP46 - ML03 - Ch6390 CP - Remaining Internal Structure & Finishing CP46 - ML03 - Ch6095 CP - Pipe Jacking Method - Break- out & Demobilization CP - Remaining Internal Structure & Finishing CP43 - ML03 - Ch5096 CP - Pipe Jacking Method - Break- out & Demobilization CP - Remaining Internal Structure & Finishing CP43 - ML03 - Ch5996 CP - Pipe Jacking Method - Break- out & Demobilization CP - Remaining Internal Structure & Finishing CP42 - ML03 - Ch5998 CP - Pipe Jacking Method - Break- out & Demobilization CP42 - ML03 - Ch5998 CP - Pipe Jacking Method - Break- out & Demobilization CP - Pipe Jacking Method - Break- out & Demobilization CP - Pipe Jacking Method - Break- out & Demobilization CP - Pipe Jacking Method - Break- out & Demobilization CP - Pipe Jacking Method - Break- out & Demobilization CP - Pipe Jacking Method - Break- out & Demobilization CP - Pipe Jacking Method - Break- out & Demobilization CP - Pipe Jacking Method - Break- out & Demobilization CP - Pipe Jacking Method - Break- out & Demobilization CP - Pipe Jacking Method - Break- out & Demobilization CP - Pipe Jacking Method - Break- out & Demobilization CP - Pipe Jacking Method - Break- out & Demobilization CP - Pipe Jacking Method - Break- out & Demobilization CP - Pipe Jacking Method - Steup & Assembly CP - Remaining Internal Structure & Finishing CP39 - ML03 - Ch5607 CP - Pipe Jacking Method - Steup & Assembly CP - Remaining Internal Structure & Finishing CP38 - ML03 - Ch5510 CP - Pipe Jacking Method - Steup & Assembly CP - Pipe Jacking Method - Steup & Assembly CP - Pipe Jacking Method - Break- out & Demobilization CP - Pipe Jacking Method - Break- out & Demobilization CP - Pipe Jacking Method - Steup & Assembly CP - Pipe Jacking Method - Steup & Assembly CP - Pipe Jacking Method - Steup & Assembly CP - Pipe Jacking Method - Steup & Assembly CP - Pipe Jacking Method - Steup & Assembly CP - Pipe Jacking Method - Steup & Assembly CP - Pipe Jacking Method - Steup & Assembly CP - Pipe Jacking Method -	cture: & Finishing Excavation
CP - Remaining Internal Structure & Finishing CP47 - ML03 - Ch6399 CP - Remaining Internal Structure & Finishing CP46 - ML03 - Ch6295 CP - Pipe Jacking Method - Break-out & Demobilization CP - Remaining Internal Structure & Finishing CP44 - ML03 - Ch5996 CP - Pipe Jacking Method - Break-out & Demobilization CP - Remaining Internal Structure & Finishing CP42 - ML03 - Ch5998 CP - Pipe Jacking Method - Break-out & Demobilization CP - Pipe Jacking Method - Break-out & Demobilization CP - Pipe Jacking Method - Break-out & Demobilization CP - Pipe Jacking Method - Break-out & Demobilization CP - Pipe Jacking Method - Break-out & Demobilization CP - Pipe Jacking Method - Break-out & Demobilization CP - Pipe Jacking Method - Break-out & Demobilization CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Setup & Assembly CP - Pipe Jacking Method - Setup & Assembly CP - Pipe Jacking Method - Setup & Assembly CP - Pipe Jacking Method - Setup & Assembly CP - Pipe Jacking Method - Setup & Assembly CP - Pipe Jacking Method - Setup & Assembly CP - Remaining Internal Structure & Finishing CP39 - ML03 - Ch5507 CP - Pipe Jacking Method - Setup & Assembly CP - Remaining Internal Structure & Finishing CP39 - ML03 - Ch5510 CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-out & Demobilization CP - Pipe Jacking Method - Break-out & Demobilization CP - Pipe Jacking Method - Break-out & Demobilization CP	cture,& Finishing Excavation
CP - Remaining Internal Structure & Finishing CP47 - ML03 - Ch6390 CP - Remaining Internal Structure & Finishing CP - Remaining Internal Structure & Finishing CP44 - ML03 - Ch6095 CP - Remaining Internal Structure & Finishing CP43 - ML03 - Ch5096 CP - Pipe Jacking Method - Break-out & Demobilization CP - Pipe Jacking Method - Break-out & Demobilization CP - Pipe Jacking Method - Break-out & Demobilization CP - Pipe Jacking Method - Break-out & Demobilization CP - Pipe Jacking Method - Break-out & Demobilization CP - Pipe Jacking Method - Break-out & Demobilization CP - Pipe Jacking Method - Break-out & Demobilization CP - Pipe Jacking Method - Break-out & Demobilization CP - Pipe Jacking Method - Break-out & Demobilization CP - Pipe Jacking Method - Break-out & Demobilization CP - Pipe Jacking Method - Break-out & Demobilization CP - Pipe Jacking Method - Setup & Assembly CP - Pipe Jacking Method - Setup & Assembly CP - Pipe Jacking Method - Setup & Assembly CP - Pipe Jacking Method - Setup & Assembly CP - Pipe Jacking Method - Setup & Assembly CP - Pipe Jacking Method - Setup & Assembly CP - Pipe Jacking Method - Setup & Assembly CP - Pipe Jacki	cture;& Finishing Excavation <l< td=""></l<>
CP - Remaining Internal Structure & Finishing CP47 - ML03 - Ch6399 CP - Remaining Internal Structure & Finishing CP46 - ML03 - Ch6295 CP - Pipe Jacking Method - Break-out & Demobilization CP - Remaining Internal Structure & Finishing CP44 - ML03 - Ch5996 CP - Pipe Jacking Method - Break-out & Demobilization CP - Remaining Internal Structure & Finishing CP42 - ML03 - Ch5998 CP - Pipe Jacking Method - Break-out & Demobilization CP - Pipe Jacking Method - Break-out & Demobilization CP - Pipe Jacking Method - Break-out & Demobilization CP - Pipe Jacking Method - Break-out & Demobilization CP - Pipe Jacking Method - Break-out & Demobilization CP - Pipe Jacking Method - Break-out & Demobilization CP - Pipe Jacking Method - Break-out & Demobilization CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Setup & Assembly CP - Pipe Jacking Method - Setup & Assembly CP - Pipe Jacking Method - Setup & Assembly CP - Pipe Jacking Method - Setup & Assembly CP - Pipe Jacking Method - Setup & Assembly CP - Pipe Jacking Method - Setup & Assembly CP - Remaining Internal Structure & Finishing CP39 - ML03 - Ch5507 CP - Pipe Jacking Method - Setup & Assembly CP - Remaining Internal Structure & Finishing CP39 - ML03 - Ch5510 CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-in & Excavation CP - Pipe Jacking Method - Break-out & Demobilization CP - Pipe Jacking Method - Break-out & Demobilization CP - Pipe Jacking Method - Break-out & Demobilization CP	cture,& Finishing = xcavation < out & Demobilization

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CP35 - ML03 - Ch5217	
CP - Pipe Jacking Method - Setup & Assembly	hbly
CP - Piping Jacking Method - Break-in & Excavation	hod - Break-in & Excavation
CP - Pipe Jacking Method - Break-out & Demobilization	ng Method - Break-out & Demobilization
CP - Remaining Internal Structure & Finishing	CP - Remaining Internal Structure & Finishing
CP34 - ML03 - Ch5118	
CP - Pipe Jacking Method - Setup & Assembly	embly
CP - Piping Jacking Method - Break-in & Excavation	Jacking Method - Break-in & Excavation
CP - Pipe Jacking Method - Break-out & Demobilization	- Pipe Jacking Method - Break-out & Demobilization
CP - Remaining Internal Structure & Finishing	CP - Remaining Internal Structure & Finishing
CP33 - ML03 - Ch5020	
CP - Pipe Jacking Method - Setup & Assembly	Assembly
CP - Piping Jacking Method - Break-in & Excavation	ng 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	tup & Assembly
CP - Piping Jacking Method - Break-in & Excavation	CIP - 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
CP31 - ML03 - Ch4823	
CP - Pipe Jacking Method - Setup & Assembly	- 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 & Demo CP - Remaining Internal Structure & Finishing
	CP - Remaining internal Structure & Finishing
CP30 - ML03 - Ch4724	
CP - Pipe Jacking Method - Setup & Assembly	hod -'Setup & Assembly'
CP - Piping Jacking Method - Break-in & Excavation	CP - Riping Jacking Method - Break-in & Excavation
CP - Pipe Jacking Method - Break-out & Demobilization	+ CP - Pipe Jacking Method - Break-but & Demobilization
CP - Remaining Internal Structure & Finishing	CP - Remaining Internal Structure & Finishing
CP29 - ML03 - Ch4626	
CP - Pipe Jacking Method - Setup & Assembly	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 - 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
CP27 - ML03 - Ch4429	
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
CP26 - ML03 - Ch4330	
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
CP25 - ML03 - Ch4232	
CP - Pipe Jacking Method - Setup & Assembly	CD Disc looking Mathead Sature & According
	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
CP24 - ML03 - Ch4133	
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
CP23 - ML03 - Ch4035	
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
CP22 - ML03 - Ch3936	
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	¢P - Pipe Jacking Method - Break-out & Demobilization
CP - Remaining Internal Structure & Finishing	CP- Remaining Internal Structure & Finishing
CP21 - ML03 - Ch3838	
CP - Pipe Jacking Method - Setup & Assembly	CP - Pipe Jacking Method - Setup & Assembly
CP - Pipe 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 & Finishirlg
CP20 - ML03 - Ch3739	
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



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CP17 - ML03 - Ch3444	
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 & Excava
CP - Pipe Jacking Method - Break-out & Demobilization	CP - Pipe Jacking Method - Break-out 8
CP - Remaining Internal Structure & Finishing	CP - Remaining Intern
CP16 - ML03 - Ch3345	
CP - Pipe Jacking Method - Setup & Assembly	CP, - Pipe Jacking Method - Setup & Assembly
CP - Piping Jacking Method - Break-in & Excavation	CP - Piping Jacking Method - Break
CP - Pipe Jacking Method - Break-out & Demobilization	CP - Pipe Jacking Method -
CP15 - ML03 - Ch3247	
CP - Pipe Jacking Method - Setup & Assembly	CP - Pipe Jacking Method - Setup & Assembly
CP - Piping Jacking Method - Break-in & Excavation	CP- Piping Jacking Method - Bre
CP14 - ML03 - Ch3148	
CP - Pipe Jacking Method - Setup & Assembly	
	CP - Pipe Jacking Method - Setup & Assembly
CP13 - ML03 - Ch3050	
CP - Pipe Jacking Method - Setup & Assembly	CP - Pipe Jacking Method - Setup & Assembly
CP12 - ML03 - Ch2951	
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
CP10 - ML03 - Ch2754	
CP - Pipe Jacking Method - Setup & Assembly	CP - Pipe Jacking Method - Setup & Assen
CP09 - ML03 - Ch2656	
CP - Pipe Jacking Method - Setup & Assembly	CP - Pipe Jacking Method - Setup & A
CP08 - ML03 - Ch2557	
CP - Pipe Jacking Method - Setup & Assembly	CP - Pipe Jacking Method - Setup & A
Sub-sea TBM Tunnel - NB - Remaining Internal Structure	
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP42	ption for CP42
	etion to CP42
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP41	npletion to CP41
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP40	Frough - Completion to OP40
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP39	le Trough - Completion to CP39
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP38	orbel & Cable Trough - Completion to CP38
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP37	- Corbel & Cable Trough - Completion to CP37
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP36	BM Tunnel - Corbel & Cable Trough - Completion to CP36
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP35	ea TBM Tunnel - Corbel & Cable Trough - Completion to CP35
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP34	B - 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 Tough - 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 CP29
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP28	NB - Sub-sea TBM Tünnel - Corbel & Cable Trough - Completion to CP28
NP Sub and TPM Tuppel Carbol & Cable Trough Completion to CP27	
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP27	NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP27
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP26	NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP26
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP26 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP25	NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP26
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP26 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP25 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP24	NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP26 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP25 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP24
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP26 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP25	NB Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP26 NB Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP25 NB NB NB Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP24 NB NB NB Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP24 NB NB NB Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP24
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP26 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP25 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP24	NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP26 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP25 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP24
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP26 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP25 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP24 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23	NB Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP26 NB Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP25 NB NB NB Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP24 NB NB NB Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP24 NB NB NB Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP24
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP26 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP25 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP24 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23	NB Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP26 NB Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP25 NB NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP24 NB NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP26 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP25 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP24 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP22 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP22	NB Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP26 NB Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP25 NB NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP24 NB NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP26 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP25 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP24 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP22 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP21 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP21 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP21	NB Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP26 NB Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP25 NB NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP24 NB NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP24
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP26 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP25 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP24 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP22 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP21 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP20 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP20 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP20	NB Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP26 NB Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP25 NB NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP24 NB NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP26 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP25 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP24 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP22 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP21 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP20 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP19 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP19 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP19	NB Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP26 NB Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP25 NB NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP24 NB NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP24 NB NB - Sub-sea TBM Tunnel - Corbel & Cable Trough -
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP26 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP25 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP24 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP22 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP21 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP20 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP19 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP19 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP18 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17 NB - Sub-sea TBM Tunnel - Orbel & Cable Trough - Completion to CP17 NB - Sub-sea TBM Tunnel - Orbel & Cable Trough - Completion to CP17 NB - Sub-sea TBM Tunnel - Orbel & Cable Trough - Completion to CP17 NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP48	NB Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP26 NB Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP25 NB NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP24 NB NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP24 NB NB - Sub-sea TBM Tunnel - Corbel & Cable Trough -
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP26 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP25 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP24 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP22 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP21 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP20 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP19 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP19 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17 NB - Sub-sea TBM Tunnel - Orbel & Cable Trough - Completion to CP17 NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP48 NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP47	NB Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP26 NB Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP25 NB NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP24 NB NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP24 NB NB - Sub-sea TBM Tunnel - Corbel & Cable Trough -
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NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP26 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP25 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP24 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP22 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP21 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP20 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP20 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP19 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17 NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP48 NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP47 NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP46 NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP46 NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP46	NB Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP26 NB Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP25 NB NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP24 NB NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP24 NB NB - Sub-sea TBM Tunnel - Corbel & Cable Trough -
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP26 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP25 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP24 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP22 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP21 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP20 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP20 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP19 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP19 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17 NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP47 NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP46 NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP46 NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP45 NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP45 NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP45	NB Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP26 NB Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP25 NB NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP24 NB NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP24 NB NB - Sub-sea TBM Tunnel - Corbel & Cable Trough -
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NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP25 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP24 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP21 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP20 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP20 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP11 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP19 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP18 NB - Sub-sea TBM Tunnel - OH/D Slab installation - Completion to CP44 NB - Sub-sea TBM Tunnel - OH/D Slab installation - Completion to CP47 NB - Sub-sea TBM Tunnel - OH/D Slab installation - Completion to CP45 NB - Sub-sea TBM Tunnel - OH/D Slab installation - Completion to CP45 NB - Sub-sea TBM Tunnel - OH/D Slab installation - Completion to CP44 NB - Sub-sea TBM Tunnel - OH/D Slab installation - Completion to CP44 NB - Sub-sea TBM Tunnel - OH/D Slab installation - Completion to CP44 NB - Sub-sea TBM Tunnel - OH/D Slab installation - Completion to CP44 NB - Sub-sea TBM Tunnel - OH/D Slab installation - Completion to CP44 NB - Sub-sea TBM Tunnel - OH/D Slab installation - Completion to CP47 NB - Sub-sea TBM Tunnel - OH/D Slab installation - Completion to CP37 NB - Sub-sea TBM Tunnel - OH/D Slab installation - Completion to CP37 NB - Sub-sea TBM Tunnel - OH/D Slab installation - Completion to CP37 NB - Sub-sea TBM Tunnel - OH/D Slab installation - Completion to CP37 NB - Sub-sea TBM Tunnel - OH/D Slab installation - Completion to CP37 NB - Sub-sea TBM Tunnel - OH/D Slab installation - Completion to CP37 NB - Sub-sea TBM Tunnel - OH/D Slab installation - Completion to CP37 NB - Sub-sea TBM Tunnel - OH/D Slab installation - Completion to CP37 NB - Sub-sea TBM Tunnel - OH/D Slab installation - Completion to CP38 NB - Sub-sea TBM Tunnel -	65: Sub-east TBM Tunnel: Corbet & Cable Trough- Completion to CP28 108: Sub-east TBM Tunnel: Corbet & Cable Trough- Completion to CP28 108: Sub-east TBM Tunnel: Corbet & Cable Trough- Completion to CP28 108: Sub-east TBM Tunnel: Corbet & Cable Trough- Completion to CP28 108: Sub-east TBM Tunnel: Corbet & Cable Trough- Completion to CP28 108: Sub-east TBM Tunnel: Corbet & Cable Trough- Completion to CP28 108: Sub-east TBM Tunnel: Corbet & Cable Trough- Completion to CP28 108: Sub-east TBM Tunnel: Corbet & Cable Trough- Completion to CP28 108: Sub-east TBM Tunnel: Corbet & Cable Trough- Completion to CP28 108: Sub-east TBM Tunnel: Corbet & Cable Trough- Completion to CP40 109: Sub-east TBM Tunnel: Corbet & Cable Trough- Completion to CP40 109: Sub-east TBM Tunnel: Corbet & Cable Trough- Completion to CP40 109: Sub-east TBM Tunnel: Corbet & Cable Trough- Completion to CP40 109: Sub-east TBM Tunnel: Corbet & Cable Trough- Completion to CP40 109: Sub-east TBM Tunnel: Corbet & CP47 109: Sub-east TBM Tunnel: Corbet & CP40 109: Sub-east TBM Tunnel: Corbot Sub installation: Completion to CP43<
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP26 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP21 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP20 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP19 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP19 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17 NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP48 NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP47 NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP44 NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP44 NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP44 NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP44 NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP44 NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP44 NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP44 NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP35 NB - Sub-sea TBM Tunnel - OHVD Slab installation	NB - Sub-ear TBM Tunnel - Corbel A Cabb Trough - Completion to CP28 NB - Sub-ear TBM Tunnel - Corbel A Cabb Trough - Completion to CP28 NB - Sub-ear TBM Tunnel - Corbel A Cabb Trough - Completion to CP28 NB - Sub-ear TBM Tunnel - Corbel A Cabb Trough - Completion to CP28 NB - Sub-ear TBM Tunnel - Corbel A Cabb Trough - Completion to CP28 NB - Sub-ear TBM Tunnel - Corbel A Cabb Trough - Completion to CP28 NB - Sub-ear TBM Tunnel - Corbel A Cabb Trough - Completion to CP28 NB - Sub-ear TBM Tunnel - Corbel A Cabb Trough - Completion to CP28 NB - Sub-ear TBM Tunnel - Corbel A Cabb Trough - Completion to CP28 NB - Sub-ear TBM Tunnel - Corbel A Cabb Trough - Completion to CP28 NB - Sub-ear TBM Tunnel - Corbel A Cabb Trough - Completion to CP28 NB - Sub-ear TBM Tunnel - Corbel A Cabb Trough - Completion to CP28 NB - Sub-ear TBM Tunnel - Corbel A Cabb Trough - Completion to CP28 NB - Sub-ear TBM Tunnel - Corbel A Cabb Trough - Completion to CP28 NB - Sub-ear TBM Tunnel - Corbel A Cabb Trough - Completion to CP28 NB - Sub-ear TBM Tunnel - Corbel A Cabb Trough - Completion to CP28 NB - Sub-ear TBM Tunnel - Corbel A Cabb Trough - Completion to CP28 NB - Sub-ear TBM Tunnel - Corbel A Cabb Trough - Completion to CP28 NB - Sub-ear TBM Tunnel - Corbel A Cabb Trough - Completion to CP28 NB - Sub-ear TBM Tunnel - Corbel A Cabb 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 CP23 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP22 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP22 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP20 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP20 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP19 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17 NB - Sub-sea TBM Tunnel - OrHVD Slab installation - Completion to CP47 NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP47 NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP46 NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP44 NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP44 NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP44 NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP44 NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP44 NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP44 NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP47 NB - Sub-sea TBM Tunnel - OHVD Slab 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 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 CP37 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 CP	Vi3 PS: Sub-sea TBM Turnel: Corbet 3 Cable Trough- Completion to CP25 NB - Sub-sea TBM Turnel: Corbet 3 Cable Trough- Completion to CP23 NB - Sub-sea TBM Turnel: Corbet 3 Cable Trough- Completion to CP23 NB - Sub-sea TBM Turnel: Corbet 3 Cable Trough- Completion to CP23 NB - Sub-sea TBM Turnel: Corbet 3 Cable Trough- Completion to CP23 NB - Sub-sea TBM Turnel: Corbet 3 Cable Trough- Completion to CP23 NB - Sub-sea TBM Turnel: Corbet 3 Cable Trough- Completion to CP23 NB - Sub-sea TBM Turnel: Corbet 3 Cable Trough- Completion to CP23 NB - Sub-sea TBM Turnel: Corbet 3 Cable Trough- Completion to CP23 NB - Sub-sea TBM Turnel: Corbet 3 Cable Trough- Completion to CP23 NB - Sub-sea TBM Turnel: Corbet 3 Cable Trough- Completion to CP23 NB - Sub-sea TBM Turnel: Corbet 3 Cable Trough- Completion to CP23 V13 Pletion CP42 Propertion to CP43 Pletion - Completion to CP38 WI-DD3 Sub-installation - Completion to CP35 NB - Sub-sea TBM Turnel: - OHVD Sub-installation - Completion to CP35 NB - Sub-sea TBM Turnel: - OHVD Sub-installation - Completion to CP35 NB - Sub-sea TBM Turnel: - OHVD Sub-installation - Completion to CP35 NB - Sub-sea TBM Turnel: - OHVD Sub-installation - Completion to CP35 NB - Sub-sea TBM Turnel: - OHVD Sub-installation - Completion to CP35 NB -
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP26 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP25 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP22 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP21 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP20 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP19 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP19 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17 NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP17 NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP47 NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP47 NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP44 NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP44 NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP44 NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP44 NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP44 NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP44 NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP44 NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP37 NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP38 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 CP33 NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP33 NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP32 NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP32 NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP3	NB: Sub-east TBM Turnel: -Corbet 3 Cable Trough - Completion to CP28 NB: Sub-east TBM Turnel: -Corbet 3 Cable Trough - Completion to CP28 NB: Sub-east TBM Turnel: -Corbet 3 Cable Trough - Completion to CP28 NB: Sub-east TBM Turnel: -Corbet 3 Cable Trough - Completion to CP28 NB: Sub-east TBM Turnel: -Corbet 3 Cable Trough - Completion to CP28 NB: Sub-east TBM Turnel: -Corbet 3 Cable Trough - Completion to CP28 NB: Sub-east TBM Turnel: -Corbet 3 Cable Trough - Completion to CP28 NB: Sub-east TBM Turnel: -Corbet 3 Cable Trough - Completion to CP28 patiety to CP42 completion to CP41 statistion - Completion to CP28 patiety to CP42 completion to CP41 statistion - Completion to CP38 etable Timel: -Completion to CP38
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP26 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP22 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP22 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP20 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP20 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP19 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17 NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP17 NB - Sub-sea TBM Tunnel - OrHVD Slab installation - Completion to CP47 NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP47 NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP44 NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP44 NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP44 NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP44 NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP44 NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP44 NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP44 NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP47 NB - Sub-sea TBM Tunnel - OHVD Slab 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 CP38 NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP37 NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP33 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 CP34 NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP	AB Sub-esa TBM Tunnel - Corbet & Cable Trough - Completion to CP28 NB Sub-esa TBM Tunnel - Corbet & Cable Trough - Completion to CP28 NB Sub-esa TBM Tunnel - Corbet & Cable Trough - Completion to CP28 NB Sub-esa TBM Tunnel - Corbet & Cable Trough - Completion to CP28 NB Sub-esa TBM Tunnel - Corbet & Cable Trough - Completion to CP28 NB Sub-esa TBM Tunnel - Corbet & Cable Trough - Completion to CP28 NB Sub-esa TBM Tunnel - Corbet & Cable Trough - Completion to CP28 NB Sub-esa TBM Tunnel - Corbet & Cable Trough - Completion to CP28 NB Sub-esa TBM Tunnel - Corbet & Cable Trough - Completion to CP28 NB Sub-esa TBM Tunnel - Corbet & Cable Trough - Completion to CP28 NB Sub-esa TBM Tunnel - Corbet & Cable Trough - Completion to CP28 Pletoin CP42 NB<-Sub-esa TBM Tunnel - Corbet & Cable Trough - Completion to CP28

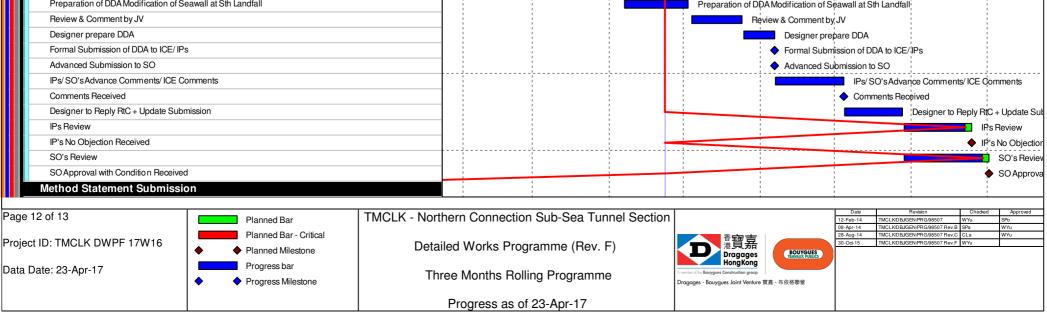
ctivity Name		
		2017
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP46		Feb Mar Apr May Jun Jul Aug S
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP45		
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NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP38		el - Fire Proofing - Completion to CP38
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP37	7in:	Innel - Fire Proofing - Completion to CP37
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP36	з se	sea TBM Tunnel - Fire Proofing - Completion to CP36
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP35	5 - 5	- Sub-sea TBM Tunnel - Fire Proofing - Completion to CP35
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP34	4	NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP34
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP33	3	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		
		NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP31
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP30		NB - Sub-sea TBM Tunnel - Fire 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	3	NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP28
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP27	7	NB - Sup-sea TBM Tunnel - Fire Proofing - Completion to CP27
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP26	3	NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP26
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP25	5	NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP25
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP24		NB - Sub-sea TBM Tunnel + Fire Proofing - Completion to CP24
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NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP23		NB · Sub-sea TBM Tunnel - Fire Proofing - Completion to CP23
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP22		■ NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP2
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP21		NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to C
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP20)	NB - Sub-sea TBM Tunnel - Fire Proofing - Con
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP19	3	📕 NB - Sub-sea TBM Tunnel - Fire Proofing - (
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP18	3	NB - Sub-sea TBM Tunnel - Fire
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 - Completio		etion to CP42
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completio		npletion to CP41
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completio		Trough - Completion to CP40
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completio	on to CP39	le Trough - Completion to CP39
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completio	on to CP38 or	orbel & Cable Trough - Completion to CP38
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completio	on to CP37 - r	- Corbel & Cable Trough - Completion to CP37
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completio		BM Tunnel - Corbel & Cable Trough - Completion to CP36
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completio		a TBM Tunnel - Corbel & Cable Trough - Completion to CP35
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completio		
		B - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP34
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completio		SB - Sub-sea TBM Tupnel - Corbel & Cable Trough - Completion to CP33
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completio	on to CP32	SB - Sub-sea TBM Tunnel - Carbet & Cable Tough - Completion to CP32
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completio	on to CP31	B - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP31
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completio	on to CP30	BB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP30
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completio	on to CP29	SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP29
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completio		SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP28
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completio		SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP27
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completio	on to CP26	SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP26
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completio	on to CP25	\$B - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP25
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completio	on to CP24	SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP24
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completio	on to CP23	SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completio	on to CP22	SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to
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		SB - 'Sub-sea TBM Tunne! - Corb
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SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completio SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completio SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completio SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completio SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completio SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completio SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completio SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completio SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completio SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completio	on to CP17 on to CP48 on to CP48 on to CP47 on to CP46 on to CP45 on to CP45 on to CP43 on to CP42 on to CP42	4 P43
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completio SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completio SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completio SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completio SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completio SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completio SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completio SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completio SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completio SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completio SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completio	on to CP17 on to CP48 on to CP47 on to CP46 on to CP45 on to CP43 on to CP42 np on to CP41 co	4 P43 npletion to CP42
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completio SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completio SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completio SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completio SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completio SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completio SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completio SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completio SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completio SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completio SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completio SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completio SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completio SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completio SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completio	on to CP17 on to CP48 on to CP47 on to CP46 on to CP45 on to CP45 on to CP43 on to CP42 on to CP41 con to CP40 on to CP40	4 P43 npletion to CP42 Completion to CP41 nstallation - Completion to CP40
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SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completio SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completio SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completio SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completio SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completio SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completio SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completio SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completio SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completio SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completio SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completio SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completio SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completio SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completio SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completio SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completio SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completio SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completio SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completio	on to CP17 on to CP48 on to CP47 on to CP46 on to CP45 on to CP45 on to CP43 on to CP43 on to CP42 on to CP41 on to CP40 on to CP39 on to CP38 on to CP38	4 P43 npletion to CP42 Completion to CP41 nstallation - Completion to CP40 tb installation - Completion to CP39 - OHVD Slab installation - Completion to CP38
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Progress as of 23-Apr-17

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SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP47								
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SB - Remaining Fire Proofing in Tunnel	_					_ 3	b - Sub-sea TBIVI Iui	
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Southern Landfall								
South Cut & Cover Tunnel		1			 	 		
Design Submission								
(E2) DDA for South C&C Box & Approach Ramp								
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	_							
Submit Updated DDA to S O/ ICE/ IPs								
ICE Approval & Issue Check Cert								
Submit ICE Check Cert to SO								
IPs Review					1			
SO's Review					1			
Method Statement Submission				1		1		
Method Statement of Construction Methodology of C&C Tunnels				· ±	1		1	
Preparation Method Statement for C&C Tunnels	-				1	1		
Submit Method Statement to SO	_		1					
SO Reviews & Comments	_							
Re-submission								
SO's Review								
Construction								
C&C Tunnel - 5th 85m - Tunnel Structure	📕 🔆 & C Tunnel - 5th 8	35ˈm - Tunnel Structure	ć –		1			
C&C Tunnel - 5th 85m - Backfilling		&C Tunnel - 5th 85m	Backfilling	1	1	1		
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C&C Tunnel - 7th 67m - Tunnel Structure				C&C Tunnel - 7th 67m - 1	F			
C&C Tunnel - 7th 67m - Backfilling					;	67m - Poelfiller		
-			- Europeanting	unattical second	Gac lunnel - /th	67m - Backfilling		
C&C Tunnel - 8th 85m - Excavation by vertical mean		C&C Tunnel - 8th 85	$1 - \mathbf{E} x cavation by$	venical mean				
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Intermediate Slab						Intermed	late Slab	
Provision for TCSS/E&M for Stage 2						1		
South Retrieval Shaft					1			
Design Submission			1	1	1	1		
(F4) Gantry Crane Support/Foundations in Southern Landfall			I	· 1	1		1	1
Designer to Reply RtC + Update Submission	-				1	1		
Submit Updated IFA to SO/ ICE/ IPs			1		1	1		
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ICE Approval & Issue Check Cert		1	<u>!</u>		1	1		1

ICE Approval & Issue Check Cert											
ICE Approval & Issue Check Cert IPs Review IP's No Objection Received											
IP's No Objection Received							1			1	
SO's Review											
SO Approval with Condition Receive	ed				1			1	1		
Method Statement Submiss	ion							1	1 1 1		
Method Statement of Cons	truction Methodology of Retrieval	l Shaft									
Preparation Method Statement for R	Retrieval Shaft										
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SO Reviews & Comments					1		1	1	1 1 1		
Re-submission								1	1 1 1		
SO's Review											
Construction											
									Date	Revision Che	ecked Approved
Page 11 of 13	Planned Bar	TMCLK - Nort	hern Conn	ection Sub-Se	a Tunnel Sec	ction				K/DBJGEN/PRG/98507 WYu K/DBJGEN/PRG/98507 Rev.B SPa	SPo WYu
	Planned Bar - Critical			_			香寶嘉		28-Aug-14 TMCL	KDBJGEN/PRG/98507 Rev.C CLa KDBJGEN/PRG/98507 Rev.F WYu	WYu
Project ID: TMCLK DWPF 17W16	 Planned Milestone 	Detai	led Works	Programme (I	Rev. F)		D 港貝希 Dragages	BOUYGUES TRAVAUX PUBLICS	30-Od-15 IMCL	ADBJGEN/PRG/98507 Rev.F WYu	I
Data Date: 23-Apr-17	Progress bar						HongKong		'		
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South Retrieval Shaft - Diaphragm Wall			1			1			
Retrieval Shaft - Excavation - Soft by ramp			1			1			
Retrieval Shaft - Excavation - Soft by vertical mean (Fill material			1			1			
Retrieval Shaft - Excavation - Soft (other than Fill)						1			
Retrieval Shaft - Temp. Slab/Prepare for TBM Breakthrough	e fo	r TBM Breakthroug	h						1
Retrieval Shaft - Mobilization for Retrieval Shaft Tunnel Structure							Retrieval S	haft - Mobilization fo	r Retrieval Shat
Retrieval Shaft - Tunnel Structure									
South Approach Ramp			1					1	
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Construction						+			
Appoach Ramp (CH1580-1850) - Pipe Pile/Sheet Piles Wall							1 1 1		
Appoach Ramp (CH1580-1850) - Tension Piles			1						
Appoach Ramp (CH1580-1800) - Excavation,				Арр	ach Ramp (CH1580-1800	0) - Excavation,			
Remaining Approach Tunnel Structure									
South Ventilation Building									
Design Submission									
(I1) DDA for South Vent.Bldg. GBP & Arch.Submission			-				1		
IPs Review							1		
IP's No Objection Received			1						
SO's Review									
SO Approval with Condition Received			1	1					
(I2) DDA for South Vent.Bldg. Foundation Design							1 1 1		
Review & Comment by JV							1 1 1		
Designer prepare DDA			1				1		
Formal Submission of DDA to ICE/ IPs									
Advanced Submission to SO					<u>i</u>	<u>.</u>			
IPs/SO'sAdvance Comments/ ICE Comments							1 1 1		
Comments Received							1		
Designer to Reply RtC + Update Submission									
Submit Updated DDA to S O/ ICE/ IPs									
ICE Approval & Issue Check Cert						+			
IPs Review							1		
SO's Review									
(I2) DDA for South Vent.Bldg.Structural Design incl.Vent.Connections									
Review & Comment by JV									
Designer prepare DDA						 	 		
Formal Submission of DDA to ICE/ IPs			1						
Advanced Submission to SO									
IPs/SO'sAdvance Comments/ ICE Comments									
Comments Received			-						
						+			
Designer to Reply RtC + Update Submission									
Submit Updated DDA to S O/ ICE/ IPs									
ICE Approval & Issue Check Cert									
IPs Review									
SO's Review									
(J1) DDA Temp.works for Construction of Sth.Vent.Bldg.						+			
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			1						
IP's No Objection Received			1			1			
SO's Review			1				1		
SO Approval with Condition Received									
Construction									
Mobilization & Setting Up Piling Rigs			1			1			
S -Sheet Piling			-				1		
Superstructure			Su	perstructure			1		
Finishing Works					1 · ·				
E&MS & Equipments Installation (by Others)								E&	MS & Equipme
Remaining Finishing Works									
South Surface Roadworks, Utility & Drainage works									
Design Submission							1 1 1		
							1		
(E1) AIP- Southern Landfall Seawall Modification							1		
Review & Comment by SO/ ICE/ IPs			Comment by SO/ IC						
Advance Commants from SO/ Comments from ICE/ IPs Received		Advance	¢ommants from SO						
Designer to Prepare RtC & Updated AIP				epare RtC & Upd					
Submisson of AIP to SO/ ICE together with Reply To Comment (RTC)			Submisson of A	IP to SO/ ICE to	ether with Reply To Comm	ent (RTC)			
Reply to IPs Comments in RTC			Reply to IPs Co	1					
ICE Approval & Issue of Design Check Cert.			1		ue of Design Check Cert.		1		
Check Cert to SO				!		<u>+</u>			
			-	Check Cert to SO			1		
No Objection or Further Minor Comments from IPs Received			• • •	1	urther Minor Comments fro	om IPs Received	1		
SO Review (35 Days)				1	ew (35 Days)		1 1 1		
SO Approval with Condition Received				🔷 SO App	oval with Condition Recei	ved	 	1	
(E1) DDA - Southern Landfall Seawall Modification									
Preparation of DDA Modification of Seawall at Sth Landfall					Preparation of D	DA Modification of S	eawall at Sth Landfa		1
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tivity Name				2017				
	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Method Statement of Ground Treatment for TBMs Passing under Southern La								
Preparation Method Statement for Ground Improvement in South Landfall					, , ,			
Submit Method Statement to SO								
SO Reviews & Comments						, 1 1		
Re-submission					1	 		
SO's Review					1	 		
SO'sApproval					1			
Construction								
Temporary Platform for Ground Treatment for TBM passing under Southern Seawall						1 1		
Grouting Treatment for TBM passing under Southern Seawall	under Southern Seawal	Ę			1	 		1
South Landfall - Underground Sewerage & Drainage								:
Testing & Commissioning/Inspection & Handover								
Final Inspection & Handover								
Design Submission					1	 		
(A12) Maintenance Matrix					1	1 1 1		
Prepare Re-submission								
2nd Submission								
SO's Condition Approval		 		1 1 1	 			
(A13) Operation & Maintenance Manual						 		
Preparation of Operation and Maintenance Manual								
1st Submission								
SO's Comments for 1st Submission								
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					i 	i I I		
Prepare Re-submission		 		1				
(A15) Health & Safety File incl.As-built Dwgs & Records, Maintenance Schedul					1	 		
Preparation of Health and Safety File including as-built drawings and records, maintenance schedules, or								
1st Submission			_					
SO's Comments for 1st Submission					i 			
Prepare Re-submission				1				

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Project ID: TM

Data Date: 23

13	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 WVu
TMCLK DWPF 17W16 23-Apr-17	 Planned Bar - Critical Planned Milestone Progress bar Progress Milestone 	Detailed Works Programme (Rev. F) Three Months Rolling Programme	香寶嘉 Progages UngKong A mether of the Bearygues Construction group Drogages - Bourygues Joint Venture 寶嘉 - 布依格聯營	28-Aug-14 30-Od:15	TMCLKDBJGEN/PRG/98507 Rev.C TMCLKDBJGEN/PRG/98507 Rev.F	CLa	WYu
		Progress as of 23-Apr-17					

Appendix C

Environmental Mitigation and Enhancement Measure Implementation Schedules

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	
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	Im	plementa Stages	tion	Status *
	Kererence					D	C	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.	construction period	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		~
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		V
WATER QUAL	ITY								
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		~

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EIA Reference	Manual	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Imp	olementa Stages	tion	Status *
	Reference					D	С	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		~

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EIA Reference	EM&A Manual	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Imp	plementa Stages	tion	Status *
	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		 TM-CLKL northern reclamation; Reclamation filling for Portion D of HKBCF; Reclamation filling for FSD berth of HKBCF; and 							
		- Reclamation dredging and filling for Portion 1 of HKLR;							
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		~

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EIA Reference	EM&A Manual	Environmental Protection Measures	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		✓
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		~

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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	
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		~

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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		✓
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		1
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		-
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		~

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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	С	0	1
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		~
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		1
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		1
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		Y		N/A
6.1	-	The Contractor shall prepare an oil / chemical cleanup plan and ensure that leakages or spillages are contained and cleaned up immediately.		Contractor	TM-EIAO		Y		√
6.1	-	Waste oil should be collected and stored for recycling or disposal, in accordance with the Waste Disposal Ordinance.	All areas/ throughout construction period	Contractor	TM-EIAO Waste Disposal Ordinance		Y		~

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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		~
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		✓

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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
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		*
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		√
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

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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
10.9	7.6	Ensure no run-off into water body adjacent to the Project Area (CM7)	All areas/detailed design/ during construction	Design Consultant/ Contractor	TMEIA	Y	Y		✓
10.9	7.6	Avoidance of excessive height and bulk of buildings and structures (CM8)	All areas/detailed design/ during construction	Design Consultant/ Contractor	TMEIA	Y	Y		√
10.9	7.6	Aesthetically pleasing design (visually unobtrusive and non- reflective) as regard to the form, material and finishes shall be incorporated to all buildings, engineering structures and associated infrastructure facilities (OM5)	All areas/detailed design/ during construction / during operation	Design Consultant/ Contractor	TMEIA	Y	Y	Y	N/A
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		

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EIA Reference	EM&A Manual	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Imj	olementa 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			✓
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		~

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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
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		1
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		√

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EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Imj	plementa Stages	tion	Status *
	Kererence					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> Sufficiently covered to prevent rainfall entering (water collected within the bund must be tested and disposed of as chemical waste, if necessary); and	construction period	Contractor	TMEIA		Y		\$
		f 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	
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		1
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
- Δ 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 ³	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 ^{(b), (c)})	120% of upstream control station at the same tide of the same day and 95%-ile of baseline data, i.e.,	130% of upstream control station at the same tide of the same day and 99%-ile of baseline data, i.e.,
	27.5 NTU	47.0 NTU
SS in mg/L (Depth-averaged ^{(b), (c)})	120% of upstream control station at the same tide of the same day and 95%-ile of baseline data, i.e., 23.5 mg/L	130% of upstream control station at the same tide of the same day and 10mg/L for WSD Seawater Intakes at Tuen Mun and 99%-ile of baseline
		data, i.e.,
		34.4 mg/L

Notes:

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

- (a) For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.
- (b) "Depth-averaged" is calculated by taking the arithmetic means of reading of all three depths
- (c) For turbidity and SS, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.
- (d) All figures given in the table are used for reference only, and EPD may amend the figures whenever it is considered as necessary
- (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	tau Social Cluster
		NEL	NWL
Act	ion Level	STG < 70% of baseline &	STG < 70% of baseline &
	ANI < 70% of baseline ANI < 70% of baseline		ANI < 70% of baseline
Lim	nit Level	[STG < 40% of baseli	ne & ANI < 40% of baseline]
			and
		STG < 40% of baseli	ne & ANI < 40% of baseline
Not	tes:		
1.	STG means quarter	ly encounter rate of number of dol	phin sightings, which is 6.00 in
	NEL and 9.85 in N	WL during the baseline monitoring	period
2.	ANI means quarter	ly encounter rate of total number o	of dolphins, which is 22.19 in NEL
	and 44.66 in NWL	during the baseline monitoring per	iod
3.	For North Lantau S	Social Cluster, AL will be trigger if I	NEL or NWL fall below the criteria
	LL will be triggere	d if both NEL and NWL fall below	the criteria.

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

Appendix E

Copies of Calibration Certificates for Air Quality Monitoring

High-Volume TSP Sampler 5-Point Calibration Record

Location Calibrated by Date	: : :	ASR 5 P.F.Yeung 11/02/2017
<u>Sampler</u> Model Serial Number	:	TE-5170 S/N 0816
Calibration Orfice and Standard Serial Number Service Date Slope (m) Intercept (b) Correlation Coefficient(r)	<u>Calibra</u> : : :	tion 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	11.2	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 Standard Serial Number	d Calibra	tion Relationship 2454
	•	
Service Date	:	14 Mar 2016
Slope (m)	:	2.10326
Intercept (b)	:	-0.06696
Correlation Coefficient(r)	:	0.99989
Standard Condition		1012
Pstd (hpa)	:	1013
Tstd (K)	:	298.18
<u>Calibration Condition</u> Pa (hpa)	:	1023
Ta(K)	:	287
	-	

Re	sistance Plate	dH [green liquid]	Z	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>alibration</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

:	1013
:	298.18
:	1023
:	287
	:

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	tion Relationship
Serial Number	:	2454
Serial Number Service Date	:	2454 14 Mar 2016
	: : :	
Service Date	::	14 Mar 2016
Service Date Slope (m)	: : :	14 Mar 2016 2.10326
Service Date Slope (m) Intercept (b)	: : :	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>

Location Calibrated by Date	: : :	ASR 5 P.F.Yeung 11/04/2017
Sampler_		
Model	:	TE-5170
Serial Number	:	S/N 0816
Calibration Orifice and Standard	d Calibra	ation Relationship
Serial Number	:	2454
Service Date	:	20 March 2017
Slope (m)	:	2.08464
Intercept (b)	:	-0.036840
Correlation Coefficient(r)	:	0.99994
Standard Condition		
Pstd (hpa)	:	1013
Tstd (K)	:	298.18
Calibration Condition		
Pa (hpa)	:	1010
Ta(K)	:	300

Resi	stance Plate	dH [green liquid]	Ζ	X=Qstd	IC	Y
		(inch water)		(cubic meter/min)	(chart)	(corrected)
1	18 holes	10.8	3.271	1.587	54	53.74
2	13 holes	7.8	2.779	1.351	46	45.78
3	10 holes	5.5	2.334	1.137	40	39.81
4	7 holes	3.7	1.914	0.936	33	32.84
5	5 holes	2.3	1.509	0.742	26	25.87

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

Sampler Calibration Relationship (Linear Regression)

Slope(m):<u>32.599</u> Intercept(b):<u>2.104</u>

Correlation Coefficient(r): 0.9992

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

Location Calibrated by Date	: : :	ASR10 P.F.Yeung 11/04/2017
Sampler		
Model	:	TE-5170
Serial Number	:	S/N 8162
Calibration Orifice and Standar	rd Calibra	tion Relationship
Serial Number	:	2454
Service Date	:	20 March 2017
Slope (m)	:	2.08464
Intercept (b)	:	-0.036840
Correlation Coefficient(r)	:	0.99994
Standard Condition		
Pstd (hpa)	:	1013
Tstd (K)	:	298.18
Calibration Condition		
Pa (hpa)	•	1010
Ta(K)	•	300
14(13)	•	500

Resi	stance Plate	dH [green liquid]	Z	X=Qstd	IC	Y
		(inch water)		(cubic meter/min)	(chart)	(corrected)
1	18 holes	11.1	3.316	1.608	58	57.72
2	13 holes	8.3	2.867	1.393	51	50.75
3	10 holes	5.6	2.355	1.147	44	43.79
4	7 holes	3.8	1.940	0.948	37	36.82
5	5 holes	2.2	1.476	0.726	30	29.86

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

Sampler Calibration Relationship (Linear Regression)

Slope(m):<u>31.503</u> Intercept(b):<u>7.103</u>

Correlation Coefficient(r): 0.9996

Checked by: Magnum Fan

Location Calibrated by Date	: :	AQMS1 P.F.Yeung 11/04/2017
<u>Sampler</u> Model Serial Number	:	TE-5170 S/N 1253

Calibration Orifice and Standard Calibration Relationship

Serial Number	:	2454
Service Date	:	20 March 2017
Slope (m)	:	2.08464
Intercept (b)	:	-0.036840
Correlation Coefficient(r)	:	0.99994

Standard Condition		
Pstd (hpa)	:	1013
Tstd (K)	:	298.18
Calibration Condition		
Pa (hpa)	:	1010
Ta(K)	:	300
Pa (hpa)	:	

			0			
Resi	stance Plate	dH [green liquid]	Z	X=Qstd	IC	Y
		(inch water)		(cubic meter/min)	(chart)	(corrected)
1	18 holes	12.5	3.519	1.705	52	51.75
2	13 holes	9.6	3.083	1.497	45	44.78
3	10 holes	7.2	2.670	1.299	40	39.81
4	7 holes	4.4	2.088	1.019	32	31.85
5	5 holes	2.3	1.509	0.741	24	23.88

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):25.528

Intercept(b):2.687

Correlation Coefficient(r): 0.9994

Checked by: Magnum Fan

Location	:	ASR 1
Calibrated by	:	P.F.Yeung
Date	:	11/04/2017
Sampler		
Model	:	TE-5170
Serial Number	:	S/N 0146
Calibration Orifice and Stand	lard Calibra	ation Relationship
Serial Number	:	2454
Service Date	:	20 March 2017

Service Date	:	20 March 2017
Slope (m)	:	2.08464
Intercept (b)	:	-0.036840
Correlation Coefficient(r)	:	0.99994

:	1013
:	298.18
:	1010
:	300
	:

Resi	stance Plate	dH [green liquid]	Ζ	X=Qstd	IC	Y
		(inch water)		(cubic meter/min)	(chart)	(corrected)
1	18 holes	10.2	3.178	1.542	52	51.75
2	13 holes	7.8	2.779	1.351	45	44.78
3	10 holes	5.4	2.313	1.127	38	37.82
4	7 holes	3.6	1.888	0.923	32	31.85
5	5 holes	2.2	1.476	0.726	25	24.88

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>32.340</u>

Intercept(b): <u>1.545</u>

Correlation Coefficient(r): 0.9994

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

Location	:	ASR 6
Calibrated by	:	P.F.Yeung
Date	:	11/04/2017
<u>Sampler</u>		
Model	:	TE-5170
Serial Number	:	S/N 3957
Calibration Orifice and Stand	ard Calibra	ation Relationship
Serial Number	:	2454
Service Date	:	20 March 2017

Service Date	:	20 March 2017
Slope (m)	:	2.08464
Intercept (b)	:	-0.036840
Correlation Coefficient(r)	:	0.99994

Standard Condition		
Pstd (hpa)	:	1013
Tstd (K)	:	298.18
Calibration Condition		
Pa (hpa)	:	1010
Ta(K)	:	300

Resi	stance Plate	dH [green liquid]	Ζ	X=Qstd	IC	Y
		(inch water)		(cubic meter/min)	(chart)	(corrected)
1	18 holes	11.8	3.419	1.658	52	51.75
2	13 holes	9.0	2.986	1.450	46	45.78
3	10 holes	6.2	2.478	1.206	40	39.81
4	7 holes	4.0	1.990	0.972	34	33.84
5	5 holes	2.6	1.605	0.787	28	27.87

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>26.875</u> Intercept(b): <u>7.162</u> <u>0.9990</u>

Correlation Coefficient(r):

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



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		7 Rootsmeter Orifice I.I		438320 2454	Ta (K) - Pa (mm) -	293 759.46
========	================				METER	ORFICE
PLATE OR Run #	VOLUME START (m3)	VOLUME STOP (m3)	DIFF VOLUME (m3)	DIFF TIME (min)	DIFF Hg (mm)	DIFF H2O (in.)
1 2 3 4 5	NA NA NA NA	NA NA NA NA NA	1.00 1.00 1.00 1.00 1.00	1.4390 1.0240 0.9170 0.8730 0.7200	3.2 6.4 7.9 8.8 12.8	2.00 4.00 5.00 5.50 8.00

DATA TABULATION

Vstd	(x axis) Qstd	(y axis)		Va	(x axis) Qa	(y axis)
1.0120 1.0078 1.0057 1.0045 0.9992	0.7033 0.9842 1.0967 1.1507 1.3878	$ \begin{array}{r} 1.4257\\2.0163\\2.2543\\2.3643\\2.8514\end{array} $		0.9958 0.9916 0.9895 0.9884 0.9831	0.6920 0.9683 1.0791 1.1322 1.3654	0.8784 1.2423 1.3889 1.4567 1.7568
Qstd slop intercept coefficie	t (b) =	2.08464 -0.03684 0.99994		Qa slope intercept coefficie	t (b) =	1.30537 -0.02270 0.99994
y axis =	SQRT [H20 (1	Pa/760) (298/5	[[a)]	y axis =	SQRT [H20 (7	[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 = $1/m\{ [SQRT(H2O(Ta/Pa)] - b \}$

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

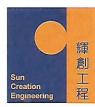
Calibrated by:

Fai

Checked by : Fat

Yeung Ping Fai (Technical Officer)

Ho Kam Fat (Senior Technical Officer)



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

			alibratio					*********		
quipment Ref. No.	: <u>ET/E</u>	W/008/00	8			Manufactur	er	: <u>YSI</u>		
íodel No.	: <u>Pro 20</u>)30				Serial No.		: <u>14M1014</u>	189	
ate of Calibration	: 19/01/	2017		MERCENCOM AND ADDRESS		Calibration	Due Date	: 18/04/20	17	
Temperature Verifi	cation			*****		9900 M M 200 M DO		iyan ku unun kun yi ku unu ku di dan dan ya	****	
Ref. No. of Reference	e Thermom	eter :	ET/05	21/017		9127219-12.02.02.02.02.02.02.02.02.02.02.02.02.02				
Ref. No. of Water B	ath :		10 10 m		na ta da					
			Francisco		haite a bailtean an berniou		******			
							erature (°C)	1		
Reference Th			Measu	*****		20.3	Corrected		19.8	
DO M	leter reading	5	Measu	red		19.8	Difference	*****	0.0	
Standardization of s	odium thios	ulphate	(Na 2 S 2 O 3)	solution					**********	
Reagent No. of Na ₂ S	$Ia_2S_2O_3$ titrant CPE/012/4.5				Reag	ent No. of 0.02	25N K ₂ Cr ₂ O ₇	CPE/012/	4.4/002/16	
							Trial 1			
Initial Vol. of Na ₂ S ₂ O ₃ (ml)						0.00		10.35		
Final Vol. of $Na_2S_2O_3$ (ml)						10.35		20.	.70	
Vol. of Na ₂ S ₂ O ₃ used			al-An-denimination and the contract of the states			10.35	Nonfantskihodologu sourcestaat in staange e	10.	35	
Normality of $Na_2S_2O_3$ solution (N)						0.0241	5	0.02	415	
Average Normality (N) of $Na_2S_2O_3$ solution (N)							0.0241	5		
Acceptance criteria,			014mmmorf40.0140.0100000000000000000000000000000			******	Less than ±	0.001N		
Calculation:	Normality	of Na_2S_2	$D_3, \mathbb{N} = 0.25$	ml Na ₂	S_2O_3 used	1		MATERIA COMPANY OF THE OTHER OF T		
Lineality Checking Determination of dis	solved oxyg	en conte	nt by Winkle	r Titrati	on *					
Purging Time (min)		I	*****	2			5	10		
Trial	****		1		2	1	2	1	2	
Initial Vol. of Na_2S_2	D_3 (ml)		0.00	1	1.40	23.00	0.00	6.10	9.90	
Final Vol. of Na ₂ S ₂ C			11.40	2	3.00	29.60	6.10	9.90	13.80	
Vol. (V) of $Na_2S_2O_3$	used (ml)		11.40	1	1.60	6.60	6.10	3.80	3.90	
Dissolved Oxygen (I)O), mg/L		7.39	7	.52	4.28	3.95	2.46	2.53	
Acceptance criteria,				ın + 0.3r	ng/L	Less than	+ 0.3mg/L	Less than -	+ 0.3mg/L	
Calculation:	DO (mg/L)	$= \mathbb{V} \times \mathbb{N}$	x 8000/298							
Durging time aris	DO	meter rea	ding, mg/L		Winkle	r Titration resu	ılt *, mg/L	Difference	(%) of DO	
Purging time, min	1	2	Aver	ige	1	2	Average	Con	· ·	
2	7.39	7.48	7.4	1	7.39	7.52	7.46	0.2	27	
5	4.19	4.14	4.1	7	4.28	3.95	4.12	1.2	21	
					2 16	2.46 2.53 2.50 3.67				
10	2.39	10 2.39 2.42 2.41 2 Linear regression coefficient						J.U) /	



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

Zero Point Checkin	ıg							
	DO meter re	ading, mg/				0.00		
		2010-1-10-1-10-1-10-1-10-1-10-1-10-1-10		*****	1.000 / 1.000100-00-000-00-00-00-00-00-00-00-00-00			
Salinity Checking		1						
Reagent No. of NaC	Cl (10ppt)	CI	PE/012/4.7/003/	33 Reage	ent No. of Na	Cl (30ppt)	CPE/012/4.8/003/33	
Determination of d	issolved oxyg	en content	by Winkler Titr	ation **				
Salinity (ppt)	94999974999974997497499999999999999999			10			30	
Trial			1		2	1	2	
Initial Vol. of Na_2S_2	O ₃ (ml)		0.00		10.90	21.80	31.20	
Final Vol. of Na ₂ S ₂ C	O ₃ (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 (J			7.07		7.07	6.09	6.09	
Acceptance criteria,				1an + 0.3mg	/L	Les	s than + 0.3mg/L	
Calculation:	DO (mg/L)	=VxNx8	3000/298					
Collinity (cont)	DO r	neter readii	ıg, mg/L	Winkler	Titration res	ult**, mg/L	Difference (%) of DO	
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	
 Acceptance Criteria Differenc betwee Linear regression Zero checking: 0 Difference (%) o 	en temperatur 1 coefficient : .0mg/L	>0.99			-		mometer : < 0.5 °C	
The equipment comp unacceptable [#] for u Delete as appropria	use.	iot comply	# with the specif	ied requiren	oents and is d	eemed accepta	ble [#]	
rated by	R	anv)		4	wed by :	$n \wedge l \sim$	



Performance Check of Salinity Meter									
Equipment Ref. No. : <u>ET/EV</u>	Equipment Ref. No. : <u>ET/EW/008/008</u>								
Model No. : <u>Pro 20</u>	30	Serial No	. : <u>14M101489</u>						
Date of Calibration : $\underline{19/01/2017}$ Due Date : $\underline{18/04/2}$									
Ref. No. of Salinity Standard used (30ppt) S/001/9									
Salinity Standard Value (ppt)	Measured Salinit (ppt)	y	Difference * (%)						
30.0	30.3		1.00						
(*) Difference (%) = (Measured S	Salinity – Salinity Sta	ndard value) / Salinity Standard value x 10	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: Approved by:									



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

juipment Ref. No.	: <u>ET/E</u>	N/008/00	5		Manufactu	irer	: <u>YSI</u>		
odel No.	: Pro 20)30			Serial No.		: 12A 100	353	
ate of Calibration	: 19/01/	2017			Calibration	n Due Date	: 18/04/20	17	
Temperature Verifi	cation	00000-00000000000000000000000000000000							
Ref. No. of Reference	ce Thermom	eter :	ET/052	1/017				-	
Ref. No. of Water B	ath :								
			1		Tan	perature (°C)			
Reference Tl	ermometer	reading	Measur	ed	20.3	Corrected		19.8	
	leter reading		Measur		19.9	Difference		-0.1	
								-0.1	
Standardization of s		-		T					
Reagent No. of Na ₂ S	S_2O_3 titrant		CPE/012/4.5/	001/15	Reagent No. of 0.	$025\mathrm{N}\mathrm{K}_{2}\mathrm{Cr}_{2}\mathrm{O}_{7}$	[CPE/012/	/4.4/002/16	
	OVER THE DESIGN AND ADDRESS OF ADDR				Tria	11	Trial 2		
Initial Vol. of Na ₂ S ₂					0.0	0	10	.35	
Final Vol. of Na_2S_2C		ar and an			10.3	35	20.	.70	
Vol. of Na ₂ S ₂ O ₃ use					10.3	35	10.	.35	
Normality of Na ₂ S ₂ C	****				0.024	\$15	0.02	415	
Average Normality (N) of Na_2S_2	O ₃ solutio	on (N)			0.0241	5		
Acceptance criteria,						Less than \pm	0.001N		
Calculation:	Normality	of Na ₂ S ₂ C	$D_3, \mathbb{N} = 0.25 /$	ml Na ₂ S ₂ O	3 used				
Lineality Checking			*****		***************************************				
Determination of dis	ssolved oxyg	en conte	nt by Winkler	Titration [•]	٢				
Purging Time (min)				2		5		10	
Trial		Ì	1	2	1	2	1	2	
Initial Vol. of Na_2S_2	O3 (ml)		0.00	11.40) 23.00	0.00	6.10	9.90	
Final Vol. of Na ₂ S ₂ C	03 (ml)		11.40	23.00) 29.60	6.10	9.90	13.80	
Vol. (V) of $Na_2S_2O_3$	used (ml)		11.40	11.60) 6.60	6.10	3.80	3.90	
Dissolved Oxygen (I)0), mg/L		7.39	7.52	4.28	3.95	2.46	2.53	
Acceptance criteria,	Deviation		Less that	n + 0.3mg/l	Less that	an + 0.3mg/L	Less than	+ 0.3mg/L	
Calculation:	DO (mg/L)	$= \mathbb{V} \times \mathbb{N}$	x 8000/298						
	DO	meter rea	ding, mg/L	w	inkler Titration re	sult *. mg/L	Difference	(%) of DO	
Purging time, min	1	2	Avera			Average	Con	• •	
	7.35	7.42	T	1		7.46	0.9)4	
2			Contraction of Contraction Contraction			4.12	1.6	***	
2 5	4.24	4.13	4.13 4.19			·			
	4.24 2.51	4.13				2.50	1.9		



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

Zero Point Checking	ř						
	DO meter r	eading, mg/I				0.00	
Galinaus Initerioris and a construction of the			NAME OF CONTRACT				
Salinity Checking							
Reagent No. of NaCl	(10ppt)	CF	PE/012/4.7/003/3	3 Reage	nt No. of NaC	Cl (30ppt)	CPE/012/4.8/003/33
Determination of dis	solved oxy	zen content	by Winkler Titre	ation **			
Salinity (ppt)			00 4 4 4 9 4 9 4 4 4 4 4 4 4 4 4 4 4 4 4	10			30
rial			1		2	1	2
nitial Vol. of Na_2S_2C) ₃ (ml)		0.00		10.90	21.80	31.20
inal Vol. of Na ₂ S ₂ O	3 (ml)		10.90		21.80	31.20	40.60
Vol. (V) of $Na_2S_2O_3$	used (ml)		10.90		10.90	9.40	9.40
Dissolved Oxygen (D	solved Oxygen (DO), mg/L 7.07				7.07 6.09		6.09
cceptance criteria, l				nan + 0.3mg/	L	Le	ss than + 0.3mg/L
Calculation:	DO (mg/L)) = V x N x 8	3000/298	NUCLEON POINT OF CONTRACTOR	10101111111111111111111111111111111111		
Salinity (ppt)	DO	meter readii	ıg, mg/L	Winkler	Titration resu	ılt**, mg/L	Difference (%) of DO
J T T T	1	2	Average	1	2	Average	Content
10	7.21	7.18	7.2	7.07	7.07	7.07	1.82
30	6.13	6.18	6.16	6.09	6.09	6.09	1.14
Acceptance Criteria 1) Differenc between 2) Linear regression 3) Zero checking: 0. 4) Difference (%) of	coefficient 0mg/L	: >0.99					mometer : < 0.5 °C
The equipment comp unacceptable [#] for u Delete as appropriat	se.	not comply	[#] with the specif	fied requirem	ents and is d	eemed accepta	uble [#]
	\sim	<u>``</u>					е. <u>А</u> С



Performance Check of Salinity Meter								
Equipment Ref. No. : <u>ET/EV</u>	V/008/005	Manufacturer : <u>YSI</u>						
Model No. : <u>Pro 20</u>	Serial	No. : <u>12A 100353</u>						
Date of Calibration : <u>19/01/</u>	2017	Due Date : <u>18/04/2017</u>						
Ref. No. of Salinity Standard used (30ppt) S/001/9								
Salinity Standard (ppt)	Measured Salinit (ppt)	ity Difference * (%)						
30.0	30.3	1.00						
(*) Difference (%) = (Measured)	Salinity – Salinity Sta	ndard v	ralue) / Salinity Standard value x 100					
Acceptance Criteria Difference : -10 % to 10 %								
The salinity meter complies * / does not comply * with the specified requirements and is deemed acceptable * / unacceptable * for use. Measurements are traceable to national standards.								
Checked by : <u>Bianto</u> Approved by : <u>(</u>								



quipment Ref. No.	: ET/EW	//008/004			Manufactu	urer	: YSI		
1odel No.	: Pro 203	30		ilian ni fan inge	Serial No.		: 10F 1019	78	
ate of Calibration	: 19/04/2	017			Calibratio	n Due Date	: 18/07/2017		
Temperature Verifi	cation	*****	******		******************************	*******************		*****	
Ref. No. of Referen	ce Thermome	ter :	ET/0521	1/017					
Ref. No. of Water E	Bath :								
					na na mana na m			944994979988899999999999999999999999999	
				1	Ten	nperature (°C)			
	hermometer re	eading	Measure		19.9	Corrected		19.8	
DO N	Aeter reading		Measure	ed	19.9	Difference		-0.1	
Standardization of	sodium thiosu	ulphate (Na	$(_2S_2O_3)$ s	olution					
Reagent No. of Na ₂	S ₂ O ₃ titrant	СР	E/012/4.5/0	001/15	Reagent No. of 0.	.025N K ₂ Cr ₂ O ₇	CPE/012/	4.4/002/18	
					Tria	al 1	Trial 2		
Initial Vol. of Na ₂ S ₂	O ₃ (ml)			0.0	00	10.25			
Final Vol. of Na_2S_2	O ₃ (ml)			10.:	25	20.	45		
Vol. of $Na_2S_2O_3$ use	ed (ml)			10.	25	10.	20		
Normality of Na ₂ S ₂	D ₃ solution (N)		0.024	439	0.02	451		
Average Normality	(N) of Na_2S_2C	O_3 solution ((N)		0.0244	5			
Acceptance criteria,						Less than \pm).001N		
Calculation:	Normality of	$f Na_2 S_2 O_3$,	N = 0.25 / 1	ml Na ₂ S ₂ O	3 used				
Calculation.						OCTOBAL STREET, STREET			
Lineality Checking		*****	*****		99009999999999999999999999999999999999				
Lineality Checking	ssolved oxyge	en content l	by Winkler	Titration 3	*				
Lineality Checking Determination of di	issolved oxyge	en content l	by Winkler	fatta da ana ang ang ang ang ang ang ang ang an	k 	5		0	
Lineality Checking	issolved oxyge	en content l		2		5		0	
Lineality Checking Determination of di Purging Time (min)		en content i	1	2	1	2	1	2	
Lineality Checking Determination of di Purging Time (min) Trial	O ₃ (ml)	en content l	1 0.00	2 2 10.70	1) 21.50	2 0.00	1 6.70	2 10.30	
<i>Lineality Checking</i> <i>Determination of di</i> Purging Time (min) Trial Initial Vol. of Na ₂ S ₂	O ₃ (ml)	en content l	1 0.00 10.70	2 2 10.70 21.50	1) 21.50) 28.20	2 0.00 6.70	1 6.70 10.30	2 10.30 13.80	
Lineality Checking Determination of di Purging Time (min) Trial Initial Vol. of Na ₂ S ₂ Final Vol. of Na ₂ S ₂	O_3 (ml) D_3 (ml) used (ml)	en content l	1 0.00 10.70 10.70	2 2 10.7(21.5(10.8(1 21.50 28.20) 6.70	2 0.00 6.70 6.70	1 6.70 10.30 3.60	2 10.30 13.80 3.50	
Lineality Checking Determination of di Purging Time (min) Trial Initial Vol. of Na ₂ S ₂ Final Vol. of Na ₂ S ₂ O ₃ Vol. (V) of Na ₂ S ₂ O ₃	O ₃ (ml) O ₃ (ml) used (ml) DO), mg/L	en content l	1 0.00 10.70 10.70 7.02	2 2 10.70 21.50	1) 21.50) 28.20) 6.70 4.40	2 0.00 6.70	1 6.70 10.30	2 10.30 13.80 3.50 2.30	
Lineality Checking Determination of di Purging Time (min) Trial Initial Vol. of Na ₂ S ₂ Final Vol. of Na ₂ S ₂ O ₃ Vol. (V) of Na ₂ S ₂ O ₃ Dissolved Oxygen (I	O ₃ (ml) O ₃ (ml) used (ml) DO), mg/L		1 0.00 10.70 10.70 7.02 Less than	2 10.7(21.5(10.8(7.09	1) 21.50) 28.20) 6.70 4.40	2 0.00 6.70 6.70 4.40	1 6.70 10.30 3.60 2.36	2 10.30 13.80 3.50 2.30	
Lineality Checking Determination of di Purging Time (min) Trial Initial Vol. of Na ₂ S ₂ Final Vol. of Na ₂ S ₂ O ₃ Dissolved Oxygen (I Acceptance criteria, Calculation:	O_3 (ml) D_3 (ml) used (ml) DO), mg/L Deviation DO (mg/L) =	= V x N x 8	1 0.00 10.70 10.70 7.02 Less than 000/298	2 10.7(21.5(10.8(7.09 a + 0.3mg/l	1) 21.50) 28.20) 6.70 4.40 Less th	2 0.00 6.70 6.70 4.40 an + 0.3mg/L	1 6.70 10.30 3.60 2.36 Less than	2 10.30 13.80 3.50 2.30 + 0.3mg/L	
Lineality Checking Determination of di Purging Time (min) Trial Initial Vol. of Na ₂ S ₂ Final Vol. of Na ₂ S ₂ O ₃ Dissolved Oxygen (I Acceptance criteria,	O_3 (ml) D_3 (ml) used (ml) DO), mg/L Deviation DO (mg/L) =		1 0.00 10.70 10.70 7.02 Less than 000/298	2 10.7(21.5(10.8(7.09 a + 0.3mg/l W	1 21.50 28.20 28.20 6.70 4.40 Less th	2 0.00 6.70 6.70 4.40 an + 0.3mg/L	1 6.70 10.30 3.60 2.36	2 10.30 13.80 3.50 2.30 + 0.3mg/L	
Lineality Checking Determination of di Purging Time (min) Trial Initial Vol. of Na ₂ S ₂ Final Vol. of Na ₂ S ₂ O ₃ Dissolved Oxygen (I Acceptance criteria, Calculation:	O ₃ (ml) O ₃ (ml) used (ml) DO), mg/L Deviation DO (mg/L) = DO m	= V x N x 8	1 0.00 10.70 10.70 7.02 Less than 000/298 g, mg/L	2 10.7(21.5(10.8(7.09 a + 0.3mg/l W	1 21.50 28.20 6.70 4.40 Less th	2 0.00 6.70 6.70 4.40 an + 0.3mg/L	1 6.70 10.30 3.60 2.36 Less than Difference	2 10.30 13.80 3.50 2.30 + 0.3mg/L (%) of DO tent	
Lineality Checking Determination of di Purging Time (min) Trial Initial Vol. of Na ₂ S ₂ Final Vol. of Na ₂ S ₂ O ₃ Vol. (V) of Na ₂ S ₂ O ₃ Dissolved Oxygen (I Acceptance criteria, Calculation:	$\begin{array}{c} O_3 (ml) \\ D_3 (ml) \\ used (ml) \\ DO), mg/L \\ Deviation \\ DO (mg/L) = \\ \hline DO n \\ 1 \end{array}$	= V x N x 8 neter readin 2	1 0.00 10.70 10.70 7.02 Less than 000/298 g, mg/L Averag	2 10.7(21.5(10.8(7.09 n + 0.3mg/l W ge 1	1 21.50 28.20 6.70 4.40 Less th 7inkler Titration rel 2 92 7.09	2 0.00 6.70 4.40 an + 0.3mg/L esult *, mg/L Average	1 6.70 10.30 3.60 2.36 Less than Difference Con	2 10.30 13.80 3.50 2.30 + 0.3mg/L (%) of DO tent 56	
Lineality Checking Determination of di Purging Time (min) Trial Initial Vol. of Na ₂ S ₂ Final Vol. of Na ₂ S ₂ O ₃ Dissolved Oxygen (I Acceptance criteria, Calculation: Purging time, min 2	$\begin{array}{c} O_3 (ml) \\ D_3 (ml) \\ used (ml) \\ DO), mg/L \\ Deviation \\ DO (mg/L) = \\ \hline DO n \\ 1 \\ \hline 7.22 \\ \end{array}$	= V x N x 8 neter readin 2 7.28	1 0.00 10.70 10.70 7.02 Less than 000/298 g, mg/L Averag 7.25	2 10.7(21.5(10.8(7.09 a + 0.3mg/l w ge 1 7.6	1 21.50 28.20 28.20 6.70 4.40 Less th Constraints Constraints 1 2 2 2 2 2 2 2 3 4.40	2 0.00 6.70 4.40 an + 0.3mg/L esult *, mg/L Average 7.06	1 6.70 10.30 3.60 2.36 Less than Difference Con 2.6	2 10.30 13.80 3.50 2.30 + 0.3mg/L (%) of DO tent 56 30	

CEP/012/W

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Zero Point Checkin	g									
	DO meter re	eading, n	ng/L			0.00				
Salinity Checking					*****		******	NELLEN COMPANY (CONTRACTOR CONTRACTOR CONTRACTOR)		
Reagent No. of NaC	1 (10ppt)	4,000,000,000,000,000,000,000,000,000,0	CPE/0	12/4.7/003/3	7 Reage	nt No. of Na	Cl (30ppt)	CPE/012/4.8/003/37		
Determination of di		zen conte					ฉ			
Salinity (ppt)	~ C	9 2016-0010-00209-0010-0000000	T	9012 (I. C. A.	10			30		
Trial				1	10	2	1	2		
nitial Vol. of Na_2S_2	O ₃ (ml)			0.00		10.60	21.10	30.30		
Final Vol. of Na_2S_2C			 	10.60		21.10	30.30	39.50		
Vol. (V) of $Na_2S_2O_3$	used (ml)		1	10.60		10.50	9.20	9.20		
Dissolved Oxygen (I	DO), mg/L		6.96			6.89	6.04	6.04		
Acceptance criteria,	Deviation		Less than + 0.3mg/L			Les	ss than $+ 0.3$ mg/L			
Calculation:	DO (mg/L)	$= V \times N$	I x 8000	0/298						
Colinity (not)	DO	meter re:	ading, 1	ng/L	Winkler	Titration resu	ılt**, mg/L	Difference (%) of DO		
Salinity (ppt)	1	2		Average	1	2	Average	Content		
10	7.05	7.0	0	7.03	6.96	6.89	6.93	1.43		
30	5.98	6.0	1	6	6.04	6.04	6.04	0.66		
Acceptance Criteria 1) Differenc betwee 2) Linear regression 3) Zero checking: 0. 4) Difference (%) of	n temperatu coefficient .0mg/L	: >0.99						mometer : < 0.5 °C		
The equipment comp unacceptable [#] for u Delete as appropria	ise.	not com	pły [#] w	ith the specif	ied requirem	ents and is d	eemed accepta	ble [#]		

Second



Performance Check of Salinity Meter								
Equipment Ref. No. : <u>ET/EW/</u>	008/004]	Manufacturer : <u>YSI</u>						
Model No. : <u>Pro 2030</u> Serial No. : <u>10F 101978</u>								
Date of Calibration : <u>19/04/2017</u> Due Date : <u>18/07/2017</u>								
Ref. No. of Salinity Standard used (30ppt) S/001/9								
Salinity Standard (ppt)	Measured Salinity (ppt)	ity Difference * (%)						
30.0	30.8	2.7						
(*) Difference (%) = (Measured Sal	linity – Salinity Stan	dard value) / Salinity Standard value x 100						
Acceptance Criteria Difference : -10 % to 10 %								
The salinity meter complies * / does not comply * with the specified requirements and is deemed acceptable * / unacceptable * for use. Measurements are traceable to national standards.								
Checked by :	Approx	oved by :						



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

quipment Ref. No.	: ET/EV	N/008/00	8		*****	Manufacture	er	: YSI	******	
1odel No.	: Pro 20)30				Serial No.		: 14M1014	.89	
Pate of Calibration	: 22/04/	******	**********	*****		Calibration]	Due Date	: 21/07/20		
			******	*******	*****					
Temperature Verifi	cation									
Ref. No. of Reference	ce Thermom	eter :	ET/052	1/017					2010-2410-124-125-125-125-125-125-125-125-125-125-125	
Ref. No. of Water B	ath :		au 10 10							
			CTROPOLISCO CONTRACTOR C				*****	анталардын айтарта на тарардар улардан улардан урууну тара тара тара тара тара тара тара тар		
						Temp	erature (°C)			
Reference Tl		and the second	Measur	ed	_	20.3	Corrected		19.8	
DO M	leter reading	5	Measur	ed		19.7	Difference		0.1	
Standardization of s	sodium thios	ulphate	(Na 2 S 2 O 3) s	olution			****		Ballines-Canada Salan an a	
Reagent No. of Na ₂ S	Reagent No. of Na ₂ S ₂ O ₃ titrant CPE/012				Reager	nt No. of 0.02	25N K ₂ Cr ₂ O ₇	CPE/012/	4.4/002/18	
					Trial	Trial 2				
Initial Vol. of Na ₂ S ₂			0.00		10.15					
Final Vol. of $Na_2S_2O_3$ (ml)						10.15		20.35		
Vol. of $Na_2S_2O_3$ used (ml)						10.15		10.	20	
Normality of Na ₂ S ₂ C	D ₃ solution (1	۷)				0.0246	3	0.02	451	
Average Normality (N) of $Na_2S_2O_3$ solution (N)							0.02457	7		
Acceptance criteria,				7074784944449444444444444444444444444444			Less than <u>+</u> ().001N		
Calculation:	Normality	of Na_2S_2	$D_3, N = 0.25 /$	ml Na ₂ S ₂	O ₃ used					
Lineality Checking	1997 (W.O.Y. 6299) FOR MARCH LINE (M. 1997) FOR MARCH LINE (M. 1997)	******		*****			*****			
Determination of dis	ssolved oxyg	en conte	nt by Winkler	Titration	*					
Purging Time (min)				2	T	5		10		
Trial	*****		1	2		1	2	1	2	
Initial Vol. of Na_2S_2	O ₃ (ml)		0.00	10.9	90	21.80	0.00	6.80	10.60	
Final Vol. of Na_2S_2C	0 ₃ (ml)		10.90	21.5	80	28.60	6.80	10.60	14.50	
Vol. (V) of $Na_2S_2O_3$	used (ml)		10.90	10.9	90	6.80	6.80	3.80	3.90	
Dissolved Oxygen (I	DO), mg/L		7.19	7.1	9	4.49	4.49	2.51	2.57	
Acceptance criteria,	Deviation		Less that	n + 0.3mg	:/L	Less than	+ 0.3mg/L	Less than -	+ 0.3mg/L	
Calculation:	DO (mg/L)	$= \mathbb{V} \times \mathbb{N}$	x 8000/298							
	DO	meter rea	ding, mg/L	1	Winkler '	Titration resu	ult * mg/L	Difference	(%) of DO	
Purging time, min	1	2	Avera		1	2	Average	Con		
2.	7.23	7.19		Construction of the participation of the participat	.19	7.19	7.19	0.2		
	1	****			.49	4.49	4.49	1.5	1999 - 1999 -	
5	4.43 4.40 4.42						+			
	2.48	2.51		2	.51	2.57	2.54	1.5	9	



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

Zero Point Checkin	g									
	DO meter re	eading, m	g/L		0.00					
Salinity Checking	*****	*****				án fergen kelőpregőlen komma arkony bakolta árak kelendése a fersekéren kélendősek köreke				
Reagent No. of NaC	l (10ppt)		CPE/012/4.7/004/	1 Reag	ent No. of Na	Cl (30ppt)	CPE/012/4.8/004/1			
Determination of di	ssolved oxyg	en conte	nt by Winkler Titr	ation **						
Salinity (ppt)				10	****		30			
Frial	00000000000000000000000000000000000000		1		2	1	2			
Initial Vol. of Na_2S_2	O ₃ (ml)		0.00		10.70	21.30	30.70			
Final Vol. of Na_2S_2C	D ₃ (ml)		10.70		21.30	30.70	40.20			
Vol. (V) of $Na_2S_2O_3$	used (ml)		10.70		10.60	9.40	9.50			
Dissolved Oxygen (I	DO), mg/L		7.06		6.99	6.20	6.27			
Acceptance criteria,	Deviation		Less t	Less than + 0.3mg/L Lu						
Calculation:	DO (mg/L)	$= \mathbb{V} \times \mathbb{N}$	x 8000/298							
Salinity (mat)	DO	meter rea	ding, mg/L	Winkle	Titration resu	ılt**, mg/L	Difference (%) of DO			
Salinity (ppt)	1	2	Average	1	2	Average	Content			
10	7.00	6.97	6.99	7.06	6.99	7.03	0.57			
30	6.07	6.11	6.09	6.20	6.27	6.24	2.43			
Acceptance Criteria (1) Differenc betwee (2) Linear regression (3) Zero checking: 0. (4) Difference (%) of (4) Difference (%) of (%) of (%) o	en temperatur coefficient .0mg/L f DO conten blies [#] / does - use.	: >0.99 t from the	meter reading and	d by winkler	titration : witl	nin ± 5%				
Delete as appropria					NOTION ILLEVILLEVILLEVILLEVILLEVILLEVILLEVILLE	wed by :	111			

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Performance Check of Salinity Meter									
Equipment Ref. No. : <u>ET/EV</u>	V/008/008	Manufacturer : <u>YSI</u>							
Model No. : <u>Pro 2030</u> Serial No. : <u>14M101489</u>									
Date of Calibration : <u>22/04/2017</u> Due Date : <u>21/07/2017</u>									
Ref. No. of Salinity Standard used (30ppt) S/001/9									
Salinity Standard Value (ppt)	Measured Salinit (ppt)	ty Difference * (%)							
30.0	30.8	2.7							
(*) Difference (%) = (Measured \$	Salinity – Salinity Sta	andard value) / Salinity Standard value x 100							
Acceptance Criteria Difference : -10 % to 10 %									
The salinity meter complies * / does not comply * with the specified requirements and is deemed acceptable * / unacceptable * for use. Measurements are traceable to national standards.									
Checked by :	App	proved 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>16030C048473</u>					
Date of Calibration : <u>26/01/17</u>	Due Date	: 25/04/2017					
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 Difference : -5 % to 5 %							
The turbidity meter complies * / does not comply * with the specified requirements and is deemed acceptable * / unacceptable * for use. Measurements are traceable to national standards.							
Prepared by : Checked by :							



Performance Check of Turbidity Meter							
Equipment Ref. No. : <u>ET/0505/014</u> Manufacturer : <u>HACH</u>							
Model No. : <u>2100Q</u> Serial No. : <u>13110C029448</u>							
Date of Calibration : <u>25/02/2017</u>	Due Date	: 24/05/2017					
	F						
Theoretical Value of Turbidity Standard (NTU)	Measured Value (NTU)	Difference % *					
20	20.4	2.0					
100	98.2	-1.8					
800	775	-3.1					
(*) Difference = (Measured Value	e – Theoretical Value) / The	oretical Value x 100					
Acceptance Criteria Difference : -5 % to 5 %							
The turbidity meter complies * / does not comply * with the specified requirements and is deemed acceptable * / unacceptable * for use. Measurements are traceable to national standards.							
Prepared by : <u>Rieemo</u> Checked by : <u>(A</u>							



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

Internal Calibration & Performa	nce Check of pH Meter
Equipment Ref. No. : ET/EW007/008 Manufacto	urer : <u>HANNA</u>
Model No. : HI9125 Serial No.	: <u>H0040409</u>
Date of Calibration : 30/03/2017 Calibratio	n Due Date : 29/04/2017
Liquid Junction Error	003/5.2/002/09 (20℃)
Primary Standard Solution Used : Phosphate Ref No	o. of Primary Solution: 003/5.2/002/10 (25℃)
Temperature of Solution : 25.0 / 20.0	$\Delta pH_{1/2} = 0.080 / 0.080$
pH value of diluted buffer : 6.98 / 6.99	pH (S) = 6.865 / 6.881
$\Delta pH = pH(S) - pH of diluted buffer = 0.115 / 0.109$	(Observed Deviation)
Liquid Junction Error $(\Delta pH_1) = \Delta pH - \Delta pH_{\frac{1}{2}} = 0.04$	0.03
Shift on Stirring	
pH of buffer solution (with stirring), $pH_s = 6.91$	6.92
Shift on stirring, $\Delta pH_s = pH_s - pH(S) - \Delta pH_j = 0.01$	0.01
Noise	
Noise, ΔpH_n = difference between max and min reading :	0.01 / 0.01
Verification of ATC	
Ref. No. of reference thermometer used:	T/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 _{ATC}):	24.9 / 19.9 [°] C
Temperature Difference, T _R - T _{ATC}	<u>0.1 / 0.1</u> °C
Correction	<u>+0.1 / +0.1</u> ^O C
Acceptance Criteria	
Performance Characteristic	Acceptable Range
Liquid Junction Error ΔpHj	≤0.05
Shift on Stirring ΔpHs	≤0.02
Noise ΔpHn	≤0.02
Verifcation of ATC Temperature Difference	≤0.5°C
The pH meter complies * / does not comply * with the specifi acceptable * / unacceptable * for use. Measurements are tra * Delete as appropriate	
Calibrated by: C	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/EW/007/007 Manufactur	rer : HANNA
Model No. : HI 8314 Serial No.	: 08500489
Date of Calibration : 06/04/2017 Calibration	Due Date : 05/05/2017
Liquid Junction Error	003/5.2/002/09 (20℃)
Primary Standard Solution Used : Phosphate Ref No.	of Primary Solution: 003/5.2/002/10 (25℃)
Temperature of Solution : 25.0 / 20.0	$\Delta pH_{\frac{1}{2}} = 0.080 / 0.080$
pH value of diluted buffer : 6.97 / 6.99	pH (S) = <u>6.865</u> / 6.881
	(Observed Deviation)
Liquid Junction Error (ΔpH_j) = $\Delta pH - \Delta pH_{\frac{1}{2}}$ = 0.02 /	0.03
Shift on Stirring	
pH of buffer solution (with stirring), $pH_s = 6.90$ /	6.92
Shift on stirring, $\Delta pH_s = pH_s - pH(S) - \Delta pH_i = 0.01 /$	0.01
Noise	
Noise, ΔpH_n = difference between max and min reading :	0.01 / 0.01
Verification of ATC	
Ref. No. of reference thermometer used:	r/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 _{ATC}):	<u>24.8 / 19.8</u> °C
Temperature Difference, T _R - T _{ATC}	0.2 / 0.2 °C
Correction	+0.2 / +0.2 ^O C
Acceptance Criteria	
Performance Characteristic	Acceptable Range
Liquid Junction Error ΔpHj	≤0.05
Shift on Stirring ΔpHs	≤0.02
Noise ∆pHn	≤0.02
Verifcation of ATC Temperature Difference	≤0.5°C
The pH meter complies * / does not comply * with the specifie acceptable * / unacceptable * for use. Measurements are trac * Delete as appropriate	
Calibrated by: Ch	necked by : _ (Anden



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

Internal Calibration & Performance Check of pH Meter						
Equipment Ref. No. : ET/EW/007/008 Manufacture	er : HANNA					
Model No. : HI9125 Serial No.	: H0040409					
Date of Calibration : 29/04/2017 Calibration	Due Date : 28/05/2017					
Liquid Junction Error	003/5.2/002/09 (20℃)					
Primary Standard Solution Used : Phosphate Ref No. c	of Primary Solution: 003/5.2/002/10 (25°C)					
Temperature of Solution : 25.0 / 20.0	$\Delta p H_{\frac{1}{2}} = 0.080 / 0.080$					
pH value of diluted buffer : 6.98 / 7.00	pH(S) = 6.865 / 6.881					
	Observed Deviation)					
Liquid Junction Error $(\Delta pH_i) = \Delta pH - \Delta pH_{1/2} = 0.04$ /	0.04					
Shift on Stirring						
pH of buffer solution (with stirring), $pH_s = 6.91$ /	6.93					
Shift on stirring, $\Delta pH_s = pH_s - pH(S) - \Delta pH_i = 0.01 /$	0.01					
$\sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{i=1}^{n} \sum_{i$						
Noise						
Noise, $\Delta pH_n = difference between max and min reading :$	0.01 / 0.01					
Verification of ATC						
Ref. No. of reference thermometer used:	0521/018 / ET/0521/019					
Temperature record from the reference thermometer (T _R):	25.0 / 20.0 ^o C					
Temperature record from the ATC (T _{ATC}):	24.9 / 19.9 ^o C					
Temperature Difference, T _R - T _{ATC}	0.1 / 0.1 ^O C					
Correction	+0.1 / +0.1 ^o C					
Acceptance Criteria						
Performance Characteristic	Acceptable Range					
Liquid Junction Error ΔpHj	≤0.05					
Shift on Stirring ∆pHs	≤0.02					
Noise <u>A</u> pHn	≤0.02					
Verifcation of ATC Temperature Difference	≤0.5°C					
The pH meter complies * / does not comply * with the specified acceptable * / unacceptable * for use. Measurements are trace * Delete as appropriate	•					
Calibrated by: <u>Beau</u> Che	ecked by :					

Appendix F

EM&A Monitoring Schedules

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

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

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						1-Apr
2-Apr	3-Apr	4-Apr	5-Apr	6-Apr	7-Apr	8-Apr
	1-hour TSP - 3 times			1-hour TSP - 3 times	·	
	24-hour TSP - 1 time			24-hour TSP - 1 time		
	Impact AQM			Impact AQM		
9-Apr	10-Apr	11-Apr		13-Apr	14-Apr	
1-hour TSP - 3 times			1-hour TSP - 3 times			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
16-Apr	17-Apr	18-Apr		20-Apr	21-Apr	22-Apr
		1-hour TSP - 3 times			1-hour TSP - 3 times	
		24-hour TSP - 1 time			24-hour TSP - 1 time	
		Impact AQM			Impact AQM	
23-Apr		25-Apr	26-Apr		28-Apr	29-Apr
	1-hour TSP - 3 times			1-hour TSP - 3 times		
	24-hour TSP - 1 time			24-hour TSP - 1 time		
	Impact AQM			Impact AQM		
30-Apr						
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 - May 2017

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

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1-May	2-May	3-May	4-May	5-May	6-May
			1-hour TSP - 3 times			1-hour TSP - 3 times
			24-hour TSP - 1 time			24-hour TSP - 1 time
7-May	/ 8-May	9-May	Impact AQM 10-May	11-May	12-May	Impact AQM 13-May
7-1viay	0-iviay	1-hour TSP - 3 times	TO-May	l 1-iviay	1-hour TSP - 3 times	13-May
		24-hour TSP - 1 time			24-hour TSP - 1 time	
		Impact AQM			Impact AQM	
14-May			17-May		19-May	20-May
	1-hour TSP - 3 times			1-hour TSP - 3 times	y	
	24-hour TSP - 1 time			24-hour TSP - 1 time		
	Impact AQM			Impact AQM		
21-May	22-May	23-May	,	25-May	26-May	27-May
1-hour TSP - 3 times			1-hour TSP - 3 times			1-hour TSP - 3 times
24-hour TSP - 1 time			24-hour TSP - 1 time			24-hour TSP - 1 time
Impact AQM	29-Mav		Impact AQM			Impact AQM
28-May	29-May	<u>30-May</u> 1-hour TSP - 3 times	31-May			
		24-hour TSP - 1 time				
		Impact AQM				
		in paol / lociti				

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 (April 2017)

SundayMondayTuesdayWednesdayThursdayFriday26-Mar27-Mar28-Mar29-Mar30-Mar31-Mar00000WQ	Saturday 01-Apr
	QM
	d-Flood
9:2	21
(07	7:36 - 11:06)
	d-Ebb
16:0	
	4:18 - 17:48)
02-Apr 03-Apr 04-Apr 05-Apr 06-Apr 07-Apr	08-Apr
	QM
	d-Ebb
11:46 10:09 11:3	
	9:53 - 13:23)
Mid-Ebb Mid-Flood Mid	d-Flood
19:23 15:15 17:2	
(17:38 - 21:08)	5:35 - 19:05)
09-Apr 10-Apr 11-Apr 12-Apr 13-Apr 14-Apr	15-Apr
WQM WQM WQM	
Mid-Ebb Mid-Flood Mid	d-Flood
13:11 7:53 8:44	
	6:59 - 10:29)
	d-Ebb
19:29 14:11 15:	·17
	3:32 - 17:02)
16-Apr 17-Apr 18-Apr 19-Apr 20-Apr 21-Apr 21-Apr	22-Apr
	QM
	d-Ebb
10:02 7:12 10:3	
	3:45 - 12:15)
	d-Flood
17:27 19:50 15:	
	3:53 - 17:23)
23-Apr 24-Apr 25-Apr 26-Apr 27-Apr 28-Apr	29-Apr
WQM WQM WQM	QM
	d-Flood
12:16 13:34 8:18	
(10:31 - 14:01) (11:49 - 15:19) (06	6:33 - 10:03)
	d-Ebb
18:22 20:04 15:0	
	3:19 - 16:49)
30-Apr	· · · · · · · · · · · · · · · · · · ·

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

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturda	
	01-May	02-May		04-May			06-May
		WQM		WQM		WQM	
		Mid-Flood		Mid-Ebb		Mid-Ebb	
		10:25		8:37		10:38	
		(08:40 - 12:10)		(06:53 - 10:23)		(08:53 - 12:23)	
		Mid-Ebb		Mid-Flood		Mid-Flood	
		17:45		13:34		16:16	
07 Мак		(16:00 - 19:30) 09-May	10 Mov	(11:49 - 15:19)		(14:31 - 18:01)	13-May
07-May	08-May	WQM	10-May	11-May WQM	12-May	WQM	13-Iviay
		Mid-Ebb		Mid-Ebb		Mid-Flood	
		12:19		13:22		7:42	
		(10:34 - 14:04)		(11:37 - 15:07)		(05:57 - 09:27)	
		Mid-Flood		Mid-Flood		Mid-Ebb	
		18:43		20:04		14:26	
		(16:58 - 20:28)		(18:19 - 21:49)		(14:19 - 17:49)	
14-May	15-May	(10.00 20.20) 16-May	17-May	18-May	19-May	(14.10 17.40)	20-May
	10 114	WQM		WQM	10 may	WQM	Lomay
		Mid-Flood		Mid-Flood		Mid-Ebb	
		9:09		10:32		8:59	
		(07:24 - 10:54)		(08:47 - 12:17)		(07:14 - 10:44)	
		Mid-Ebb		Mid-Ebb		Mid-Flood	
		16:16		17:52		13:49	
		(14:31 - 18:01)		(16:07 - 19:37)		(12:04 - 15:34)	
21-May	22-May	23-May	24-May	25-May	26-May		27-May
		WQM		WQM		WQM	
		Mid-Ebb		Mid-Ebb		Mid-Flood	
		11:11		12:35		7:14	
		(09:26 - 12:56)		(10:50 - 14:20)		(05:29 - 08:59)	
		Mid-Flood		Mid-Flood		Mid-Ebb	
		17:16		19:10		14:08	
		(15:31 - 19:01)		(17:25 - 20:55)		(12:23 - 15:53)	
28-May	29-May	30-May	31-May				
		WQM					
		Mid-Flood					
		9:24					
		(07:39 - 11:09)					
		Mid-Ebb					
		16:35					
		(14:50 - 18:20)					

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

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						1-Apr
2-Apr	3-Apr	4-Apr	5-Apr	6-Apr	7-Apr	8-Apr
9-Apr	10-Apr	11-Apr	12-Apr	13-Apr	14-Apr	15-Apr
			Impact Dolphin Monitoring			
16-Apr	17-Apr	18-Apr	19-Apr		21-Apr	22-Apr
				Impact Dolphin Monitoring		
23-Apr	24-Apr	25-Apr	26-Apr	27-Apr	28-Apr	29-Apr
	Impact Dolphin Monitoring		Impact Dolphin Monitoring			
30-Apr						

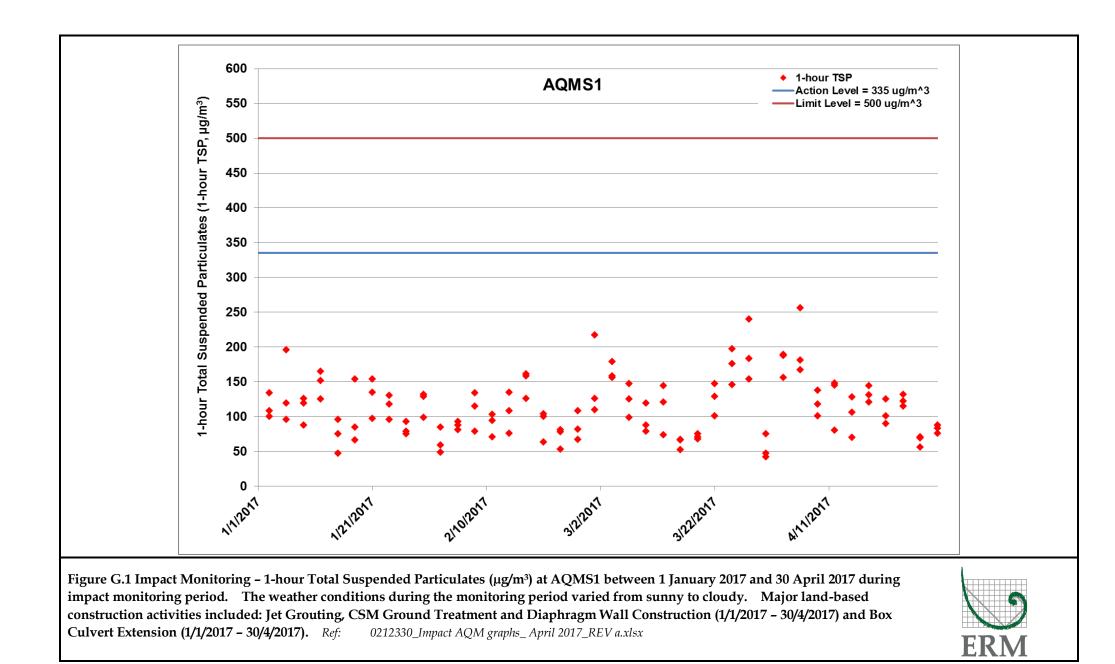
HY/2012/08 - Tuen Mun - Chek Lap Kok Link Northern Connection Sub-sea Tunnel Section Tentative Impact Dolphin Monitoring Survey Monitoring Schedule - May 2017

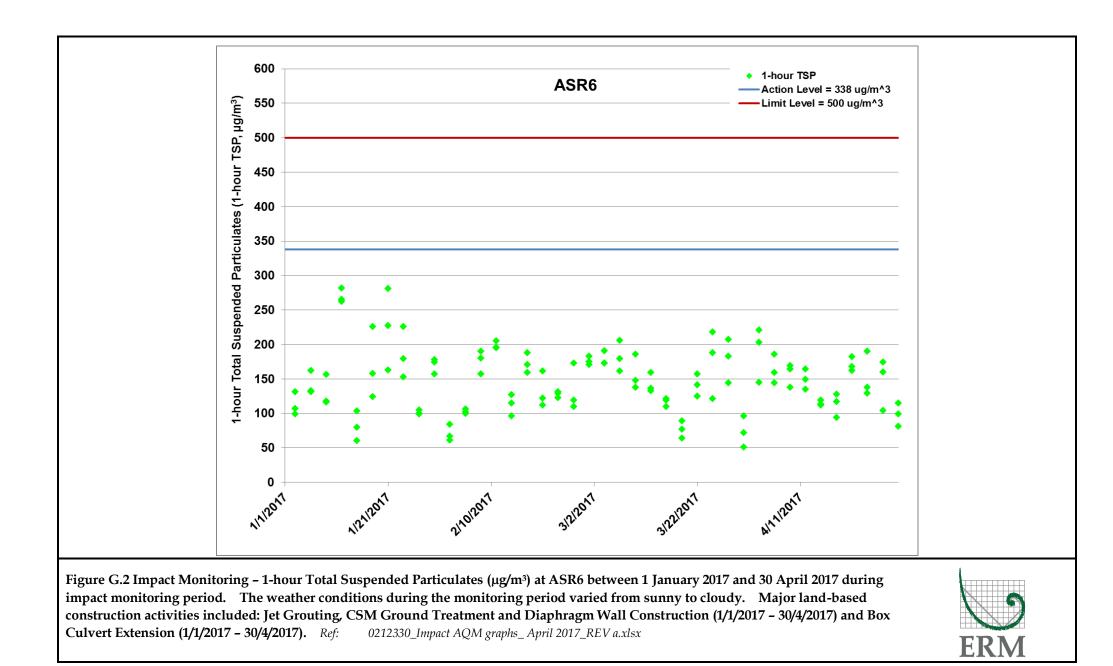
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1-May	2-May	3-May	4-May	5-May	6-May
7-May	8-May	9-May	10-May	11-May	12-May	13-May
14-May	15-May Impact Dolphin Monitoring	16-May		18-May Impact Dolphin Monitoring	19-May	20-May
21-May		23-May Impact Dolphin Monitoring	24-May		26-May Impact Dolphin Monitoring	27-May
28-May	29-May	30-May	31-May			

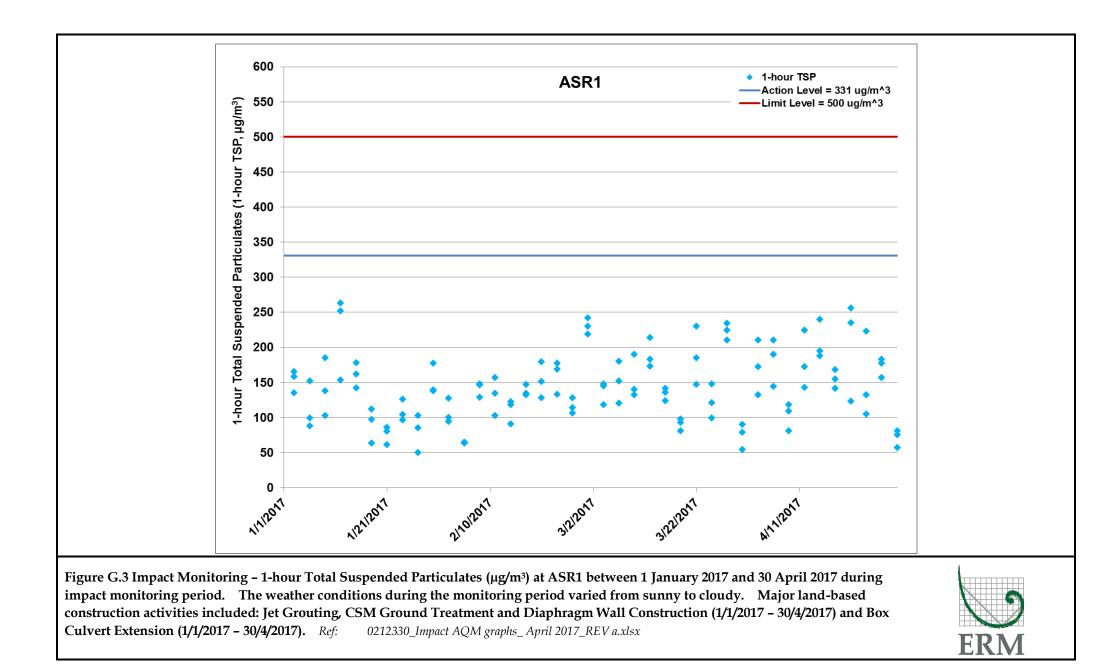
The schedule is subject to agreement from the EPD on the monitoring times. The schedule will be revised after reviewing the progress of the construction works or due to adverse (safety, weather etc) conditions.

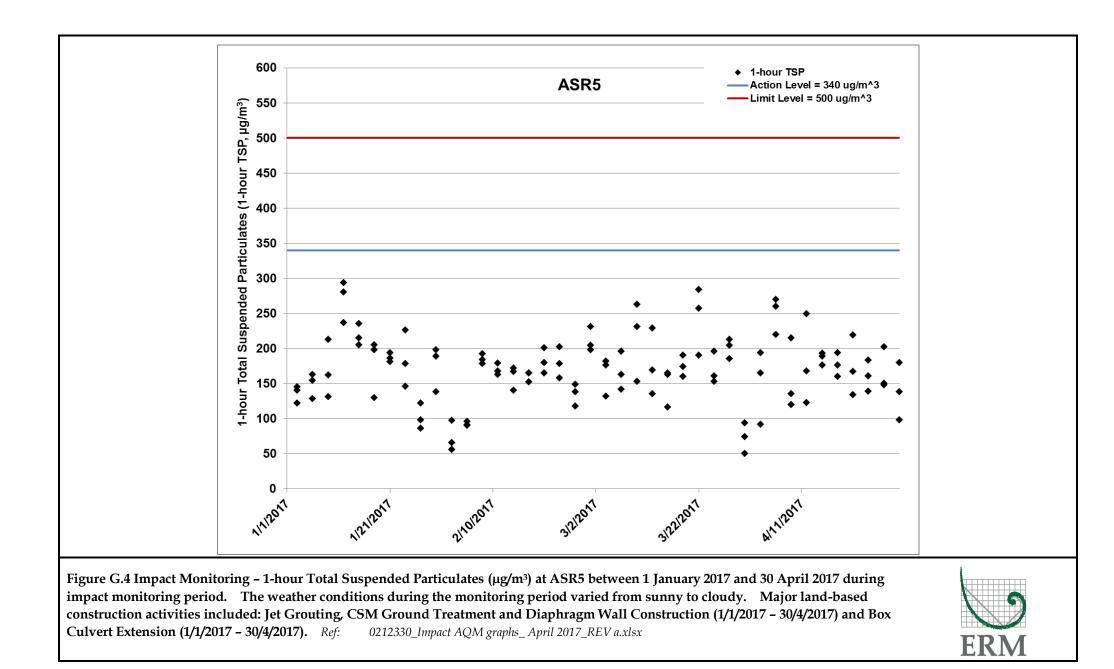
Appendix G

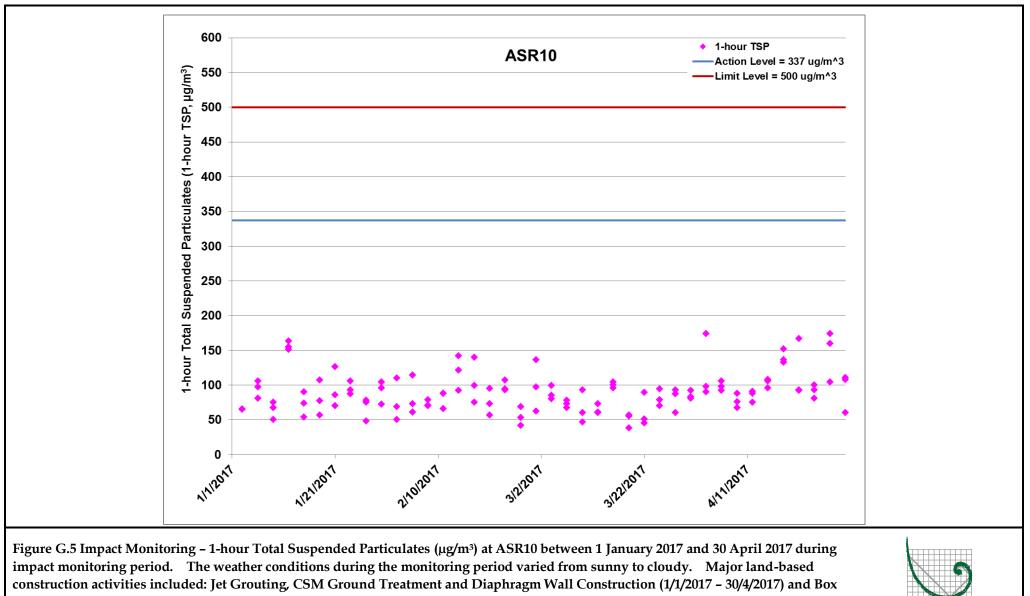
Impact Air Quality Monitoring Results





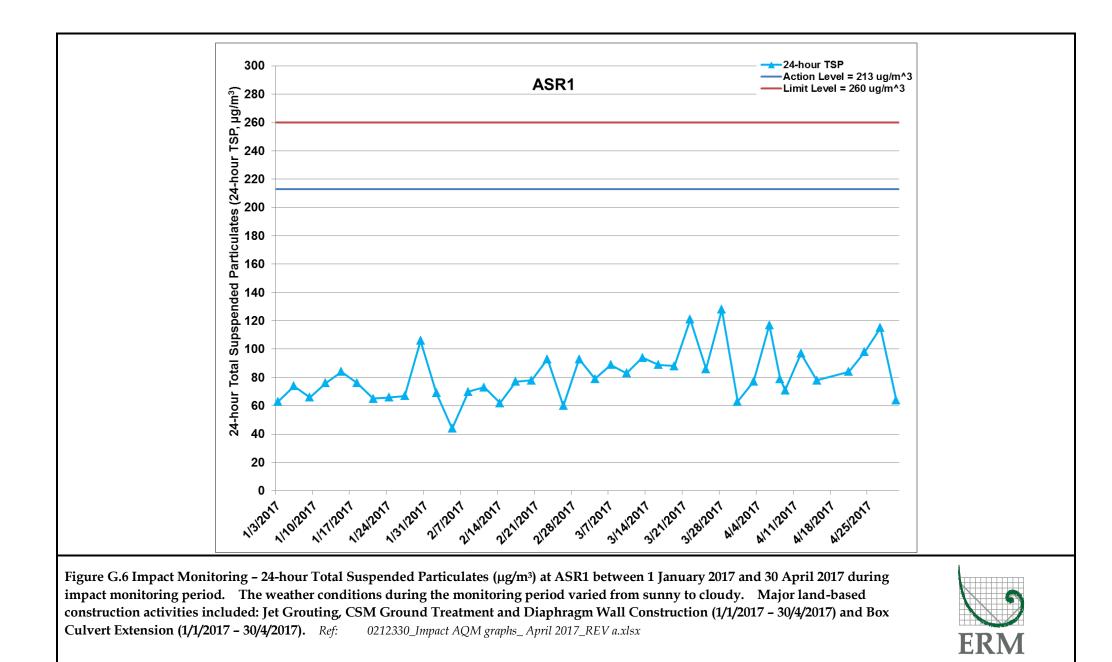


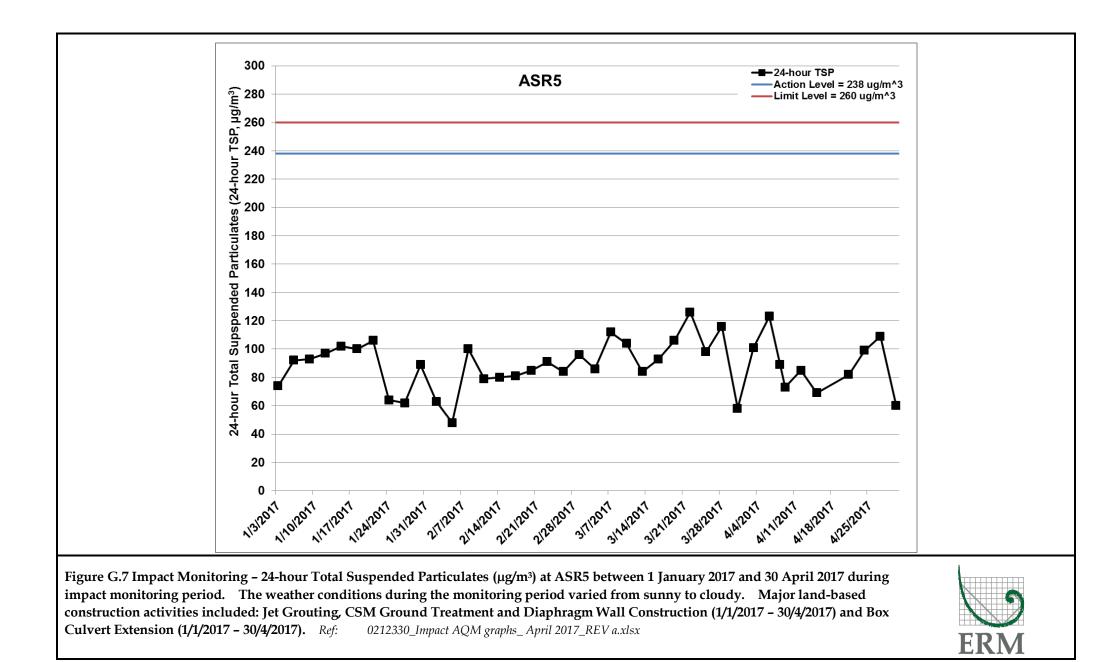


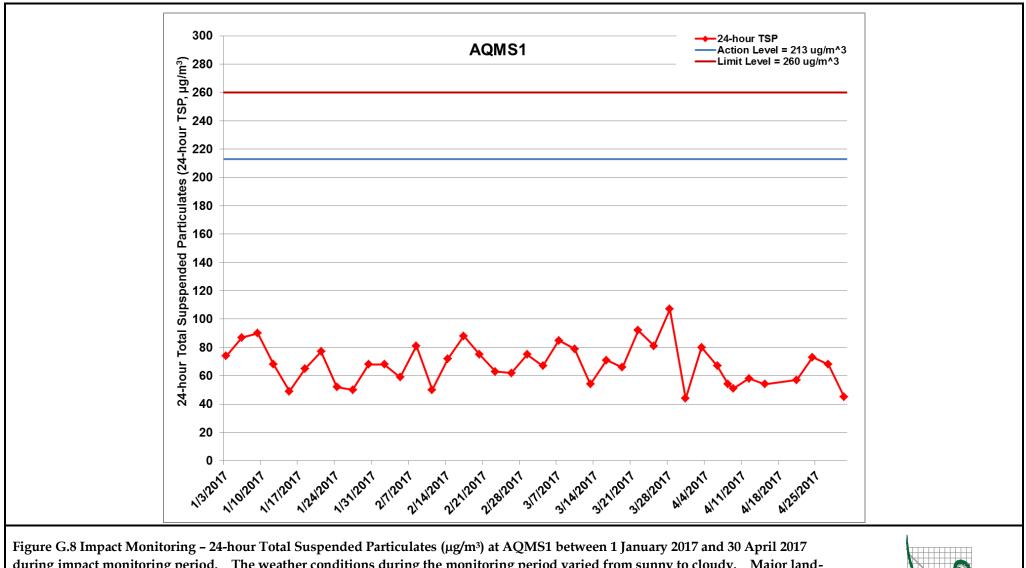


ERM

Culvert Extension (1/1/2017 – 30/4/2017). Ref: 0212330_Impact AQM graphs_ April 2017_REV a.xlsx

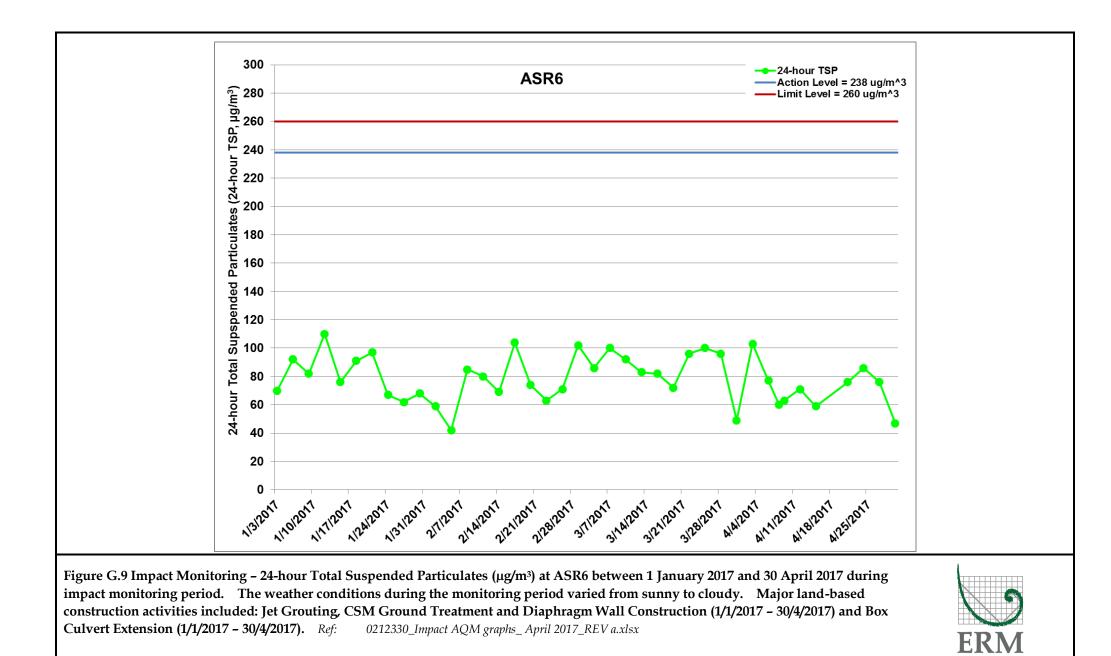


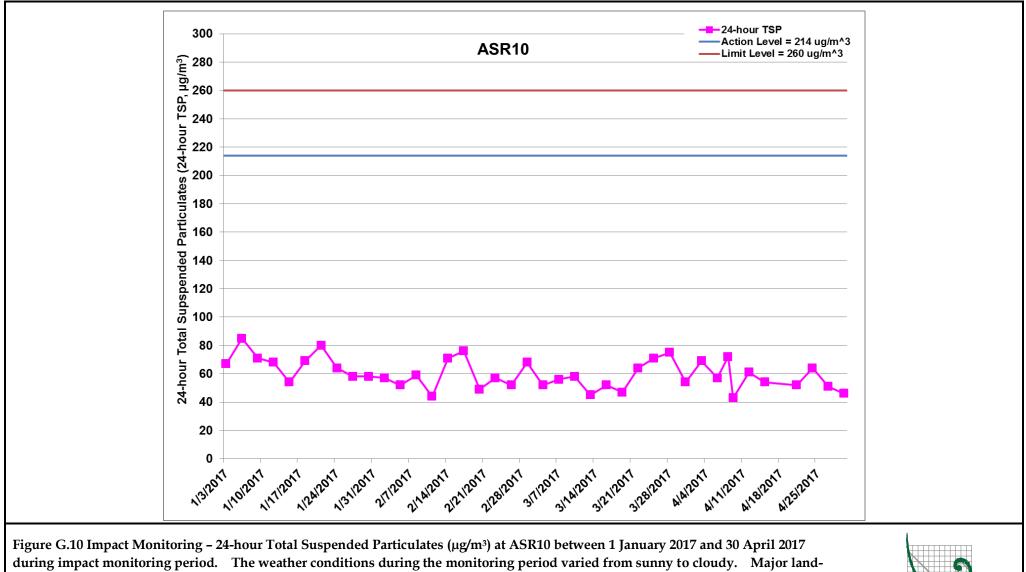




during impact Monitoring – 24-hour Total Suspended Particulates (µg/m³) at AQMS1 between 1 January 2017 and 30 April 2017 during impact monitoring period. The weather conditions during the monitoring period varied from sunny to cloudy. Major landbased construction activities included: Jet Grouting, CSM Ground Treatment and Diaphragm Wall Construction (1/1/2017 – 30/4/2017) and Box Culvert Extension (1/1/2017 – 30/4/2017). *Ref:* 0212330_Impact AQM graphs_April 2017_REV a.xlsx







based construction activities included: Jet Grouting, CSM Ground Treatment and Diaphragm Wall Construction (1/1/2017 – 30/4/2017) and Box Culvert Extension (1/1/2017 – 30/4/2017). *Ref:* 0212330_Impact AQM graphs_ April 2017_REV a.xlsx



Project	Works	Date	Station	Weather	Start time	Parameters	Results	units
TMCLKL	HY/2012/08	2017-04-03	AQMS1	Sunny	13:40	1-hour TSP	156	ug/m3
TMCLKL	HY/2012/08	2017-04-03	AQMS1	Sunny	14:42	1-hour TSP	188	ug/m3
TMCLKL	HY/2012/08	2017-04-03	AQMS1	Sunny	15:44	1-hour TSP	189	ug/m3
TMCLKL	HY/2012/08	2017-04-03	ASR1	Sunny	13:30	1-hour TSP	132	ug/m3
TMCLKL	HY/2012/08	2017-04-03	ASR1	Sunny	14:32	1-hour TSP	210	ug/m3
TMCLKL	HY/2012/08	2017-04-03	ASR1	Sunny	15:34	1-hour TSP	172	ug/m3
TMCLKL	HY/2012/08	2017-04-03	ASR10	Sunny	12:58	1-hour TSP	174	ug/m3
TMCLKL	HY/2012/08	2017-04-03	ASR10	Sunny	14:00	1-hour TSP	90	ug/m3
TMCLKL	HY/2012/08	2017-04-03	ASR10	Sunny	15:02	1-hour TSP	98	ug/m3
TMCLKL	HY/2012/08	2017-04-03	ASR5	Sunny	13:20	1-hour TSP	92	ug/m3
TMCLKL	HY/2012/08	2017-04-03	ASR5	Sunny	14:22	1-hour TSP	194	ug/m3
TMCLKL	HY/2012/08	2017-04-03	ASR5	Sunny	15:24	1-hour TSP	165	ug/m3
TMCLKL	HY/2012/08	2017-04-03	ASR6	Sunny	13:09	1-hour TSP	221	ug/m3
TMCLKL	HY/2012/08	2017-04-03	ASR6	Sunny	14:11	1-hour TSP	203	ug/m3
TMCLKL	HY/2012/08	2017-04-03	ASR6	Sunny	15:13	1-hour TSP	145	ug/m3
TMCLKL	HY/2012/08	2017-04-06	AQMS1	Sunny	14:00	1-hour TSP	256	ug/m3
TMCLKL	HY/2012/08	2017-04-06	AQMS1	Sunny	15:02	1-hour TSP	167	ug/m3
TMCLKL	HY/2012/08	2017-04-06	AQMS1	Sunny	16:04	1-hour TSP	181	ug/m3
TMCLKL	HY/2012/08	2017-04-06	ASR1	Sunny	13:49	1-hour TSP	210	ug/m3
TMCLKL	HY/2012/08	2017-04-06	ASR1	Sunny	14:51	1-hour TSP	190	ug/m3
TMCLKL	HY/2012/08	2017-04-06	ASR1	Sunny	15:53	1-hour TSP	144	ug/m3
TMCLKL	HY/2012/08	2017-04-06	ASR10	Sunny	13:17	1-hour TSP	106	ug/m3
TMCLKL	HY/2012/08	2017-04-06	ASR10	Sunny	14:19	1-hour TSP	98	ug/m3
TMCLKL	HY/2012/08	2017-04-06	ASR10	Sunny	15:21	1-hour TSP	92	ug/m3
TMCLKL	HY/2012/08	2017-04-06	ASR5	Sunny	13:38	1-hour TSP	260	ug/m3
TMCLKL	HY/2012/08	2017-04-06	ASR5	Sunny	14:40	1-hour TSP	220	ug/m3
TMCLKL	HY/2012/08	2017-04-06	ASR5	Sunny	15:42	1-hour TSP	270	ug/m3
TMCLKL	HY/2012/08	2017-04-06	ASR6	Sunny	13:28	1-hour TSP	186	ug/m3
TMCLKL	HY/2012/08	2017-04-06	ASR6	Sunny	14:30	1-hour TSP	159	ug/m3
TMCLKL	HY/2012/08	2017-04-06	ASR6	Sunny	15:32	1-hour TSP	144	ug/m3

Project	Works	Date	Station	Weather	Start time	Parameters	Results	units
TMCLKL	HY/2012/08	2017-04-09	AQMS1	Sunny	10:13	1-hour TSP	138	ug/m3
TMCLKL	HY/2012/08	2017-04-09	AQMS1	Sunny	11:15	1-hour TSP	101	ug/m3
TMCLKL	HY/2012/08	2017-04-09	AQMS1	Sunny	12:17	1-hour TSP	118	ug/m3
TMCLKL	HY/2012/08	2017-04-09	ASR1	Sunny	10:02	1-hour TSP	81	ug/m3
TMCLKL	HY/2012/08	2017-04-09	ASR1	Sunny	11:04	1-hour TSP	109	ug/m3
TMCLKL	HY/2012/08	2017-04-09	ASR1	Sunny	12:06	1-hour TSP	118	ug/m3
TMCLKL	HY/2012/08	2017-04-09	ASR10	Sunny	09:30	1-hour TSP	88	ug/m3
TMCLKL	HY/2012/08	2017-04-09	ASR10	Sunny	10:32	1-hour TSP	76	ug/m3
TMCLKL	HY/2012/08	2017-04-09	ASR10	Sunny	15:12	1-hour TSP	67	ug/m3
TMCLKL	HY/2012/08	2017-04-09	ASR5	Sunny	09:51	1-hour TSP	215	ug/m3
TMCLKL	HY/2012/08	2017-04-09	ASR5	Sunny	10:53	1-hour TSP	135	ug/m3
TMCLKL	HY/2012/08	2017-04-09	ASR5	Sunny	11:55	1-hour TSP	120	ug/m3
TMCLKL	HY/2012/08	2017-04-09	ASR6	Sunny	09:40	1-hour TSP	169	ug/m3
TMCLKL	HY/2012/08	2017-04-09	ASR6	Sunny	10:42	1-hour TSP	164	ug/m3
TMCLKL	HY/2012/08	2017-04-09	ASR6	Sunny	11:44	1-hour TSP	138	ug/m3
TMCLKL	HY/2012/08	2017-04-12	AQMS1	Cloudy	14:37	1-hour TSP	148	ug/m3
TMCLKL	HY/2012/08	2017-04-12	AQMS1	Cloudy	15:39	1-hour TSP	145	ug/m3
TMCLKL	HY/2012/08	2017-04-12	AQMS1	Cloudy	16:41	1-hour TSP	80	ug/m3
TMCLKL	HY/2012/08	2017-04-12	ASR1	Cloudy	14:27	1-hour TSP	143	ug/m3
TMCLKL	HY/2012/08	2017-04-12	ASR1	Cloudy	15:29	1-hour TSP	224	ug/m3
TMCLKL	HY/2012/08	2017-04-12	ASR1	Cloudy	16:31	1-hour TSP	172	ug/m3
TMCLKL	HY/2012/08	2017-04-12	ASR10	Cloudy	13:55	1-hour TSP	88	ug/m3
TMCLKL	HY/2012/08	2017-04-12	ASR10	Cloudy	14:57	1-hour TSP	91	ug/m3
TMCLKL	HY/2012/08	2017-04-12	ASR10	Cloudy	15:59	1-hour TSP	75	ug/m3
TMCLKL	HY/2012/08	2017-04-12	ASR5	Cloudy	14:16	1-hour TSP	249	ug/m3
TMCLKL	HY/2012/08	2017-04-12	ASR5	Cloudy	15:18	1-hour TSP	168	ug/m3
TMCLKL	HY/2012/08	2017-04-12	ASR5	Cloudy	16:20	1-hour TSP	123	ug/m3
TMCLKL	HY/2012/08	2017-04-12	ASR6	Cloudy	14:06	1-hour TSP	149	ug/m3
TMCLKL	HY/2012/08	2017-04-12	ASR6	Cloudy	15:08	1-hour TSP	164	ug/m3
TMCLKL	HY/2012/08	2017-04-12	ASR6	Cloudy	16:10	1-hour TSP	135	ug/m3

Project	Works	Date	Station	Weather	Start time	Parameters	Results	units
TMCLKL	HY/2012/08	2017-04-15	AQMS1	Sunny	10:32	1-hour TSP	70	ug/m3
TMCLKL	HY/2012/08	2017-04-15	AQMS1	Sunny	11:34	1-hour TSP	106	ug/m3
TMCLKL	HY/2012/08	2017-04-15	AQMS1	Sunny	12:36	1-hour TSP	128	ug/m3
TMCLKL	HY/2012/08	2017-04-15	ASR1	Sunny	10:21	1-hour TSP	188	ug/m3
TMCLKL	HY/2012/08	2017-04-15	ASR1	Sunny	11:23	1-hour TSP	240	ug/m3
TMCLKL	HY/2012/08	2017-04-15	ASR1	Sunny	12:25	1-hour TSP	195	ug/m3
TMCLKL	HY/2012/08	2017-04-15	ASR10	Sunny	09:50	1-hour TSP	96	ug/m3
TMCLKL	HY/2012/08	2017-04-15	ASR10	Sunny	10:52	1-hour TSP	108	ug/m3
TMCLKL	HY/2012/08	2017-04-15	ASR10	Sunny	11:54	1-hour TSP	106	ug/m3
TMCLKL	HY/2012/08	2017-04-15	ASR5	Sunny	10:11	1-hour TSP	189	ug/m3
TMCLKL	HY/2012/08	2017-04-15	ASR5	Sunny	11:13	1-hour TSP	193	ug/m3
TMCLKL	HY/2012/08	2017-04-15	ASR5	Sunny	12:15	1-hour TSP	176	ug/m3
TMCLKL	HY/2012/08	2017-04-15	ASR6	Sunny	10:00	1-hour TSP	119	ug/m3
TMCLKL	HY/2012/08	2017-04-15	ASR6	Sunny	11:02	1-hour TSP	112	ug/m3
TMCLKL	HY/2012/08	2017-04-15	ASR6	Sunny	12:04	1-hour TSP	113	ug/m3
TMCLKL	HY/2012/08	2017-04-18	AQMS1	Sunny	13:53	1-hour TSP	131	ug/m3
TMCLKL	HY/2012/08	2017-04-18	AQMS1	Sunny	14:55	1-hour TSP	144	ug/m3
TMCLKL	HY/2012/08	2017-04-18	AQMS1	Sunny	15:57	1-hour TSP	121	ug/m3
TMCLKL	HY/2012/08	2017-04-18	ASR1	Sunny	13:42	1-hour TSP	168	ug/m3
TMCLKL	HY/2012/08	2017-04-18	ASR1	Sunny	14:44	1-hour TSP	155	ug/m3
TMCLKL	HY/2012/08	2017-04-18	ASR1	Sunny	15:46	1-hour TSP	141	ug/m3
TMCLKL	HY/2012/08	2017-04-18	ASR10	Sunny	13:11	1-hour TSP	152	ug/m3
TMCLKL	HY/2012/08	2017-04-18	ASR10	Sunny	14:13	1-hour TSP	133	ug/m3
TMCLKL	HY/2012/08	2017-04-18	ASR10	Sunny	15:15	1-hour TSP	136	ug/m3
TMCLKL	HY/2012/08	2017-04-18	ASR5	Sunny	13:32	1-hour TSP	176	ug/m3
TMCLKL	HY/2012/08	2017-04-18	ASR5	Sunny	14:34	1-hour TSP	194	ug/m3
TMCLKL	HY/2012/08	2017-04-18	ASR5	Sunny	15:36	1-hour TSP	160	ug/m3
TMCLKL	HY/2012/08	2017-04-18	ASR6	Sunny	13:22	1-hour TSP	128	ug/m3
TMCLKL	HY/2012/08	2017-04-18	ASR6	Sunny	14:24	1-hour TSP	94	ug/m3
TMCLKL	HY/2012/08	2017-04-18	ASR6	Sunny	15:26	1-hour TSP	117	ug/m3

Project	Works	Date	Station	Weather	Start time	Parameters	Results	units
TMCLKL	HY/2012/08	2017-04-21	AQMS1	Sunny	09:55	1-hour TSP	125	ug/m3
TMCLKL	HY/2012/08	2017-04-21	AQMS1	Sunny	10:57	1-hour TSP	101	ug/m3
TMCLKL	HY/2012/08	2017-04-21	AQMS1	Sunny	11:59	1-hour TSP	90	ug/m3
TMCLKL	HY/2012/08	2017-04-21	ASR1	Sunny	09:44	1-hour TSP	235	ug/m3
TMCLKL	HY/2012/08	2017-04-21	ASR1	Sunny	10:46	1-hour TSP	256	ug/m3
TMCLKL	HY/2012/08	2017-04-21	ASR1	Sunny	11:48	1-hour TSP	123	ug/m3
TMCLKL	HY/2012/08	2017-04-21	ASR10	Sunny	09:13	1-hour TSP	167	ug/m3
TMCLKL	HY/2012/08	2017-04-21	ASR10	Sunny	10:15	1-hour TSP	92	ug/m3
TMCLKL	HY/2012/08	2017-04-21	ASR10	Sunny	11:17	1-hour TSP	93	ug/m3
TMCLKL	HY/2012/08	2017-04-21	ASR5	Sunny	09:34	1-hour TSP	219	ug/m3
TMCLKL	HY/2012/08	2017-04-21	ASR5	Sunny	10:36	1-hour TSP	167	ug/m3
TMCLKL	HY/2012/08	2017-04-21	ASR5	Sunny	11:38	1-hour TSP	134	ug/m3
TMCLKL	HY/2012/08	2017-04-21	ASR6	Sunny	09:24	1-hour TSP	182	ug/m3
TMCLKL	HY/2012/08	2017-04-21	ASR6	Sunny	10:26	1-hour TSP	162	ug/m3
TMCLKL	HY/2012/08	2017-04-21	ASR6	Sunny	11:28	1-hour TSP	168	ug/m3
TMCLKL	HY/2012/08	2017-04-24	AQMS1	Cloudy	14:21	1-hour TSP	132	ug/m3
TMCLKL	HY/2012/08	2017-04-24	AQMS1	Cloudy	15:23	1-hour TSP	122	ug/m3
TMCLKL	HY/2012/08	2017-04-24	AQMS1	Cloudy	16:25	1-hour TSP	115	ug/m3
TMCLKL	HY/2012/08	2017-04-24	ASR1	Cloudy	14:10	1-hour TSP	132	ug/m3
TMCLKL	HY/2012/08	2017-04-24	ASR1	Cloudy	15:12	1-hour TSP	105	ug/m3
TMCLKL	HY/2012/08	2017-04-24	ASR1	Cloudy	16:14	1-hour TSP	223	ug/m3
TMCLKL	HY/2012/08	2017-04-24	ASR10	Cloudy	13:38	1-hour TSP	93	ug/m3
TMCLKL	HY/2012/08	2017-04-24	ASR10	Cloudy	14:40	1-hour TSP	81	ug/m3
TMCLKL	HY/2012/08	2017-04-24	ASR10	Cloudy	15:42	1-hour TSP	100	ug/m3
TMCLKL	HY/2012/08	2017-04-24	ASR5	Cloudy	14:00	1-hour TSP	139	ug/m3
TMCLKL	HY/2012/08	2017-04-24	ASR5	Cloudy	15:02	1-hour TSP	161	ug/m3
TMCLKL	HY/2012/08	2017-04-24	ASR5	Cloudy	16:04	1-hour TSP	183	ug/m3
TMCLKL	HY/2012/08	2017-04-24	ASR6	Cloudy	13:49	1-hour TSP	138	ug/m3
TMCLKL	HY/2012/08	2017-04-24	ASR6	Cloudy	14:51	1-hour TSP	129	ug/m3
TMCLKL	HY/2012/08	2017-04-24	ASR6	Cloudy	15:53	1-hour TSP	190	ug/m3

Project	Works	Date	Station	Weather	Start time	Parameters	Results	units
TMCLKL	HY/2012/08	2017-04-27	AQMS1	Cloudy	13:59	1-hour TSP	71	ug/m3
TMCLKL	HY/2012/08	2017-04-27	AQMS1	Cloudy	15:01	1-hour TSP	56	ug/m3
TMCLKL	HY/2012/08	2017-04-27	AQMS1	Cloudy	16:03	1-hour TSP	69	ug/m3
TMCLKL	HY/2012/08	2017-04-27	ASR1	Cloudy	13:48	1-hour TSP	183	ug/m3
TMCLKL	HY/2012/08	2017-04-27	ASR1	Cloudy	14:50	1-hour TSP	177	ug/m3
TMCLKL	HY/2012/08	2017-04-27	ASR1	Cloudy	15:52	1-hour TSP	157	ug/m3
TMCLKL	HY/2012/08	2017-04-27	ASR10	Cloudy	13:27	1-hour TSP	174	ug/m3
TMCLKL	HY/2012/08	2017-04-27	ASR10	Cloudy	14:29	1-hour TSP	160	ug/m3
TMCLKL	HY/2012/08	2017-04-27	ASR10	Cloudy	15:31	1-hour TSP	104	ug/m3
TMCLKL	HY/2012/08	2017-04-27	ASR5	Cloudy	13:38	1-hour TSP	202	ug/m3
TMCLKL	HY/2012/08	2017-04-27	ASR5	Cloudy	14:40	1-hour TSP	148	ug/m3
TMCLKL	HY/2012/08	2017-04-27	ASR5	Cloudy	15:42	1-hour TSP	150	ug/m3
TMCLKL	HY/2012/08	2017-04-27	ASR6	Cloudy	13:27	1-hour TSP	174	ug/m3
TMCLKL	HY/2012/08	2017-04-27	ASR6	Cloudy	14:29	1-hour TSP	160	ug/m3
TMCLKL	HY/2012/08	2017-04-27	ASR6	Cloudy	15:31	1-hour TSP	104	ug/m3
TMCLKL	HY/2012/08	2017-04-30	AQMS1	Sunny	09:51	1-hour TSP	76	ug/m3
TMCLKL	HY/2012/08	2017-04-30	AQMS1	Sunny	10:53	1-hour TSP	88	ug/m3
TMCLKL	HY/2012/08	2017-04-30	AQMS1	Sunny	11:55	1-hour TSP	83	ug/m3
TMCLKL	HY/2012/08	2017-04-30	ASR1	Sunny	09:40	1-hour TSP	75	ug/m3
TMCLKL	HY/2012/08	2017-04-30	ASR1	Sunny	10:42	1-hour TSP	81	ug/m3
TMCLKL	HY/2012/08	2017-04-30	ASR1	Sunny	11:44	1-hour TSP	57	ug/m3
TMCLKL	HY/2012/08	2017-04-30	ASR10	Sunny	09:08	1-hour TSP	111	ug/m3
TMCLKL	HY/2012/08	2017-04-30	ASR10	Sunny	10:10	1-hour TSP	60	ug/m3
TMCLKL	HY/2012/08	2017-04-30	ASR10	Sunny	11:12	1-hour TSP	108	ug/m3
TMCLKL	HY/2012/08	2017-04-30	ASR5	Sunny	09:30	1-hour TSP	180	ug/m3
TMCLKL	HY/2012/08	2017-04-30	ASR5	Sunny	10:32	1-hour TSP	98	ug/m3
TMCLKL	HY/2012/08	2017-04-30	ASR5	Sunny	11:34	1-hour TSP	138	ug/m3
TMCLKL	HY/2012/08	2017-04-30	ASR6	Sunny	09:19	1-hour TSP	115	ug/m3
TMCLKL	HY/2012/08	2017-04-30	ASR6	Sunny	10:21	1-hour TSP	99	ug/m3
TMCLKL	HY/2012/08	2017-04-30	ASR6	Sunny	11:23	1-hour TSP	81	ug/m3

Project	Works	Date	Station	Weather	Start time	Parameters	Results	units
TMCLKL	HY/2012/08	2017-04-03	AQMS1	Sunny	16:46	24-hour TSP	80	ug/m3
TMCLKL	HY/2012/08	2017-04-03	ASR1	Sunny	16:36	24-hour TSP	77	ug/m3
TMCLKL	HY/2012/08	2017-04-03	ASR10	Sunny	16:04	24-hour TSP	69	ug/m3
TMCLKL	HY/2012/08	2017-04-03	ASR5	Sunny	16:26	24-hour TSP	101	ug/m3
TMCLKL	HY/2012/08	2017-04-03	ASR6	Sunny	16:15	24-hour TSP	103	ug/m3
TMCLKL	HY/2012/08	2017-04-06	AQMS1	Sunny	17:06	24-hour TSP	67	ug/m3
TMCLKL	HY/2012/08	2017-04-06	ASR1	Sunny	16:55	24-hour TSP	117	ug/m3
TMCLKL	HY/2012/08	2017-04-06	ASR10	Sunny	16:23	24-hour TSP	57	ug/m3
TMCLKL	HY/2012/08	2017-04-06	ASR5	Sunny	16:44	24-hour TSP	123	ug/m3
TMCLKL	HY/2012/08	2017-04-06	ASR6	Sunny	16:34	24-hour TSP	77	ug/m3
TMCLKL	HY/2012/08	2017-04-09	AQMS1	Sunny	13:19	24-hour TSP	51	ug/m3
TMCLKL	HY/2012/08	2017-04-09	ASR1	Sunny	13:08	24-hour TSP	71	ug/m3
TMCLKL	HY/2012/08	2017-04-09	ASR10	Sunny	12:36	24-hour TSP	43	ug/m3
TMCLKL	HY/2012/08	2017-04-09	ASR5	Sunny	12:57	24-hour TSP	73	ug/m3
TMCLKL	HY/2012/08	2017-04-09	ASR6	Sunny	12:46	24-hour TSP	63	ug/m3
TMCLKL	HY/2012/08	2017-04-12	AQMS1	Cloudy	17:43	24-hour TSP	58	ug/m3
TMCLKL	HY/2012/08	2017-04-12	ASR1	Cloudy	17:33	24-hour TSP	97	ug/m3
TMCLKL	HY/2012/08	2017-04-12	ASR10	Cloudy	17:01	24-hour TSP	61	ug/m3
TMCLKL	HY/2012/08	2017-04-12	ASR5	Cloudy	17:22	24-hour TSP	85	ug/m3
TMCLKL	HY/2012/08	2017-04-12	ASR6	Cloudy	17:12	24-hour TSP	71	ug/m3
TMCLKL	HY/2012/08	2017-04-15	AQMS1	Sunny	13:38	24-hour TSP	54	ug/m3
TMCLKL	HY/2012/08	2017-04-15	ASR1	Sunny	13:27	24-hour TSP	78	ug/m3
TMCLKL	HY/2012/08	2017-04-15	ASR10	Sunny	12:56	24-hour TSP	54	ug/m3
TMCLKL	HY/2012/08	2017-04-15	ASR5	Sunny	13:17	24-hour TSP	69	ug/m3
TMCLKL	HY/2012/08	2017-04-15	ASR6	Sunny	13:06	24-hour TSP	59	ug/m3
TMCLKL	HY/2012/08	201704-18	AQMS1	Sunny	16:59	24-hour TSP	54	ug/m3
TMCLKL	HY/2012/08	201704-18	ASR1	Sunny	16:48	24-hour TSP	79	ug/m3
TMCLKL	HY/2012/08	201704-18	ASR10	Sunny	16:17	24-hour TSP	72	ug/m3
TMCLKL	HY/2012/08	201704-18	ASR5	Sunny	16:38	24-hour TSP	89	ug/m3
TMCLKL	HY/2012/08	201704-18	ASR6	Sunny	16:28	24-hour TSP	60	ug/m3

units	Results	Parameters	Start time	Weather	Station	Date	Works	Project
ug/m3	57	24-hour TSP	13:01	Sunny	AQMS1	2017-04-21	HY/2012/08	TMCLKL
ug/m3	84	24-hour TSP	12:50	Sunny	ASR1	2017-04-21	HY/2012/08	TMCLKL
ug/m3	52	24-hour TSP	12:19	Sunny	ASR10	2017-04-21	HY/2012/08	TMCLKL
ug/m3	82	24-hour TSP	12:40	Sunny	ASR5	2017-04-21	HY/2012/08	TMCLKL
ug/m3	76	24-hour TSP	12:30	Sunny	ASR6	2017-04-21	HY/2012/08	TMCLKL
ug/m3	73	24-hour TSP	17:27	Cloudy	AQMS1	2017-04-24	HY/2012/08	TMCLKL
ug/m3	98	24-hour TSP	17:16	Cloudy	ASR1	2017-04-24	HY/2012/08	TMCLKL
ug/m3	64	24-hour TSP	15:58	Cloudy	ASR10	2017-04-24	HY/2012/08	TMCLKL
ug/m3	99	24-hour TSP	17:06	Cloudy	ASR5	2017-04-24	HY/2012/08	TMCLKL
ug/m3	86	24-hour TSP	16:55	Cloudy	ASR6	2017-04-24	HY/2012/08	TMCLKL
ug/m3	68	24-hour TSP	17:05	Cloudy	AQMS1	2017-04-27	HY/2012/08	TMCLKL
ug/m3	115	24-hour TSP	16:54	Cloudy	ASR1	2017-04-27	HY/2012/08	TMCLKL
ug/m3	51	24-hour TSP	16:23	Cloudy	ASR10	2017-04-27	HY/2012/08	TMCLKL
ug/m3	109	24-hour TSP	16:44	Cloudy	ASR5	2017-04-27	HY/2012/08	TMCLKL
ug/m3	76	24-hour TSP	16:33	Cloudy	ASR6	2017-04-27	HY/2012/08	TMCLKL
ug/m3	45	24-hour TSP	12:57	Sunny	AQMS1	2017-04-30	HY/2012/08	TMCLKL
ug/m3	64	24-hour TSP	12:46	Sunny	ASR1	2017-04-30	HY/2012/08	TMCLKL
ug/m3	46	24-hour TSP	12:14	Sunny	ASR10	2017-04-30	HY/2012/08	TMCLKL
ug/m3	60	24-hour TSP	12:36	Sunny	ASR5	2017-04-30	HY/2012/08	TMCLKL
ug/m3	47	24-hour TSP	12:25	Sunny	ASR6	2017-04-30	HY/2012/08	TMCLKL

Appendix H

Meteorological Data

	Meteor	ological Data for Impact Monitoring ir	n the reporting period
Date (yy-mm-dd)	Time (24hrs)	Average of Wind Speed (m/s)	Average of Wind Direction(degree)
17/04/03	0:00	0.9	65
17/04/03	1:00	1.3	95
17/04/03	2:00	1.3	71
17/04/03	3:00	1.8	63
17/04/03	4:00	1.8	48
17/04/03	5:00	1.3	52
17/04/03	6:00	1.3	40
17/04/03	7:00	1.3	55
17/04/03	8:00	1.3	41
17/04/03	9:00	1.3	92
17/04/03	10:00	1.3	112
17/04/03	11:00	2.2	104
17/04/03	12:00	3.1	103
17/04/03	13:00	3.1	105
17/04/03	14:00	3.1	117
17/04/03	15:00	4	99
17/04/03	16:00	4	103
17/04/03	17:00	4.5	108
17/04/03	18:00	4	111
17/04/03	19:00	3.6	98
17/04/03	20:00	3.1	100
17/04/03	21:00	2.2	88
17/04/03	22:00	1.8	71
17/04/03	23:00	1.8	68
17/04/04	0:00	1.8	96
17/04/04	1:00	1.8	77
17/04/04	2:00	1.8	81
17/04/04	3:00	1.8	92
17/04/04	4:00	1.3	65
17/04/04	5:00	1.3	101
17/04/04	6:00	0.9	105
17/04/04	7:00	0.4	50
17/04/04	8:00	0.9	93
17/04/04	9:00	1.8	84
17/04/04	10:00	2.2	111
17/04/04	11:00	2.7	106
17/04/04	12:00	2.7	63
17/04/04	13:00	2.7	84
17/04/04	14:00	2.2	85
17/04/04	15:00	3.1	103
17/04/04	16:00	2.7	85
17/04/04	17:00	3.1	112
17/04/04	17:00	3.1	104
17/04/04	19:00	3.1	93
17/04/04	20:00	3.1	111
17/04/04	20:00	3.1	92
17/04/04	21:00	2.2	87
17/04/04	22:00	1.8	88
17/04/04	0:00	4	84
	1:00	3.6	92
17/04/06			87
17/04/06	2:00	2.7	
17/04/06	3:00	1.3	122
17/04/06	4:00	0.9	92
17/04/06	5:00	0.9	85
17/04/06	6:00	0.4	104

	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)
17/04/06	7:00	0	-
17/04/06	8:00	0.9	109
17/04/06	9:00	1.3	117
17/04/06	10:00	1.8	100
17/04/06	11:00	2.2	112
17/04/06	12:00	2.2	114
17/04/06	13:00	1.8	93
17/04/06	14:00	1.8	109
17/04/06	15:00	1.8	119
17/04/06	16:00	0.9	172
17/04/06	17:00	1.3	108
17/04/06	18:00	1.3	93
17/04/06	19:00	1.3	88
17/04/06	20:00	0.9	87
17/04/06	21:00	0.9	77
17/04/06	22:00	0.9	75
17/04/06	23:00	0.4	104
17/04/07	0:00	1.3	95
17/04/07	1:00	0.4	114
17/04/07	2:00	0.9	102
17/04/07	3:00	0.9	96
17/04/07	4:00	0.9	88
17/04/07	5:00	0.4	111
17/04/07	6:00	0	
17/04/07	7:00	0.4	81
17/04/07	8:00	0.9	92
17/04/07	9:00	1.8	100
17/04/07	10:00	1.3	85
17/04/07	11:00	1.8	69
17/04/07	12:00	2.2	107
		1.3	
17/04/07	13:00		125
17/04/07	14:00	0.9	113
17/04/07	15:00	1.8	72
17/04/07	16:00	2.7	68
17/04/07	17:00	2.2	73
17/04/07	18:00	1.8	81
17/04/07	19:00	1.8	69
17/04/07	20:00	1.8	95
17/04/07	21:00	1.8	104
17/04/07	22:00	1.3	62
17/04/07	23:00	1.3	104
17/04/09	0:00	1.3	71
17/04/09	1:00	1.3	72
17/04/09	2:00	0.9	84
17/04/09	3:00	0.9	65
17/04/09	4:00	0.4	83
17/04/09	5:00	0	-
17/04/09	6:00	0.4	72
17/04/09	7:00	0.9	83
17/04/09	8:00	0.9	49
17/04/09	9:00	0.9	52
17/04/09	10:00	1.3	84
17/04/09	11:00	1.3	100
17/04/09	12:00	1.3	142
17/04/09	13:00	0.9	133

	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)
17/04/09	14:00	1.3	171
17/04/09	15:00	1.3	165
17/04/09	16:00	1.3	183
17/04/09	17:00	0.9	164
17/04/09	18:00	0.9	59
17/04/09	19:00	0.9	221
17/04/09	20:00	0.9	215
17/04/09	21:00	1.8	205
17/04/09	22:00	1.8	231
17/04/09	23:00	0.9	227
17/04/10	0:00	0.4	253
17/04/10	1:00	1.8	221
17/04/10	2:00	1.8	216
17/04/10	3:00	1.3	227
17/04/10	4:00	1.8	231
17/04/10	5:00	0.9	219
17/04/10	6:00	0.9	51
17/04/10	7:00	0.9	48
17/04/10	8:00	0.9	43
17/04/10	9:00	0.9	41
17/04/10	10:00	0.9	103
17/04/10	11:00	0.9	113
17/04/10	12:00	1.3	234
17/04/10	13:00	1.8	226
17/04/10	14:00	3.6	219
17/04/10	15:00	3.1	216
17/04/10	16:00	3.1	204
17/04/10	17:00	3.6	221
17/04/10	18:00	3.1	215
17/04/10	19:00	3.1	204
17/04/10	20:00	3.6	207
17/04/10	21:00	3.1	228
17/04/10	22:00	2.7	200
17/04/10	23:00	1.8	211
17/04/12	0:00	2.7	305
17/04/12	1:00	3.1	300
17/04/12	2:00	2.7	341
17/04/12	3:00	1.8	310
17/04/12	4:00	1.3	49
17/04/12	5:00	1.3	223
17/04/12	6:00	0.9	215
17/04/12	7:00	1.8	53
17/04/12	8:00	2.2	55
17/04/12	9:00	2.2	57
17/04/12	10:00	1.3	49
17/04/12	11:00	1.3	340
17/04/12	12:00	1.3	351
17/04/12	12:00	1.5	46
17/04/12	13:00	1.8	51
17/04/12			332
	15:00	1.8	
17/04/12	16:00	1.8	251
17/04/12	17:00	1.3	340
17/04/12	18:00	3.6	339
17/04/12	19:00	3.1	40
17/04/12	20:00	1.8	43

	Meteor	ological 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)
17/04/12	21:00	1.3	42
17/04/12	22:00	1.8	57
17/04/12	23:00	1.8	47
17/04/13	0:00	1.8	41
17/04/13	1:00	1.8	351
17/04/13	2:00	1.8	52
17/04/13	3:00	0.9	44
17/04/13	4:00	0.9	93
17/04/13	5:00	1.3	46
17/04/13	6:00	1.3	48
17/04/13	7:00	2.2	41
17/04/13	8:00	1.3	38
17/04/13	9:00	0.9	52
17/04/13	10:00	1.8	54
17/04/13	11:00	1.8	49
17/04/13	12:00	1.3	44
17/04/13	13:00	0.9	225
17/04/13	14:00	1.3	301
17/04/13	15:00	1.3	351
17/04/13	16:00	1.3	349
17/04/13	17:00	0.9	352
17/04/13	18:00	0.4	97
17/04/13	19:00	0.4	300
17/04/13	20:00	0.4	294
17/04/13	21:00	0	-
17/04/13	22:00	0	-
17/04/13	23:00	0	-
17/04/15	0:00	1.8	84
17/04/15	1:00	1.8	62
17/04/15	2:00	2.7	97
17/04/15	3:00	0.9	62
17/04/15	4:00	0.4	73
17/04/15	5:00	0.9	94
17/04/15	6:00	1.8	71
17/04/15	7:00	1.3	88
17/04/15	8:00	1.3	96
17/04/15	9:00	1.3	104
17/04/15	10:00	1.8	115
17/04/15	11:00	1.8	93
17/04/15	12:00	2.7	46
17/04/15	13:00	2.7	41
17/04/15	14:00	3.1	96
17/04/15	15:00	2.7	101
17/04/15	16:00	2.7	84
17/04/15	17:00	2.7	112
17/04/15	18:00	1.8	91
17/04/15	19:00	1.8	85
17/04/15	20:00	1.3	106
17/04/15	21:00	1.3	94
17/04/15	22:00	0.9	88
17/04/15	23:00	0.4	92
17/04/16	0:00	0.9	64
17/04/16	1:00	1.3	95
17/04/16	2:00	1.8	105
1//07/10	2.00	1.0	64

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)	
17/04/16	4:00	1.3	58	
17/04/16	5:00	1.8	100	
17/04/16	6:00	1.8	95	
17/04/16	7:00	1.8	94	
17/04/16	8:00	1.3	34	
17/04/16	9:00	1.3	84	
17/04/16	10:00	1.3	79	
17/04/16	11:00	1.3	145	
17/04/16	12:00	2.2	115	
17/04/16	13:00	1.8	129	
17/04/16	14:00	1.3	131	
17/04/16	15:00	1.8	225	
17/04/16	16:00	1.8	215	
17/04/16	17:00	1.3	223	
17/04/16	18:00	1.8	92	
17/04/16	19:00	1.8	84	
17/04/16	20:00	1.8	100	
17/04/16	21:00	1.8	52	
17/04/16	22:00	1.8	64	
17/04/16	23:00	2.2	59	
17/04/18	0:00	0.4	323	
17/04/18	1:00	0	-	
17/04/18	2:00	0.4	183	
17/04/18	3:00	0.4	92	
17/04/18	4:00	0.4	357	
17/04/18	5:00	0	-	
17/04/18	6:00	0.4	64	
17/04/18	7:00	0	-	
17/04/18	8:00	0.4	109	
17/04/18	9:00	0.9	174	
17/04/18	10:00	1.3	226	
17/04/18	11:00	1.3	231	
17/04/18	12:00	2.2	240	
17/04/18	13:00	3.1	231	
17/04/18	14:00	1.8	246	
17/04/18	15:00	2.2	229	
17/04/18	16:00	2.2	251	
17/04/18	17:00	0.9	242	
17/04/18	18:00	0.9	291	
17/04/18	19:00	1.3	300	
17/04/18	20:00	0.9	313	
17/04/18	21:00	0.9	64	
17/04/18	22:00	0.9	94	
17/04/18	23:00	0.4	85	
17/04/19	0:00	0.9	93	
17/04/19	1:00	0.9	82	
17/04/19	2:00	0.4	5	
17/04/19	3:00	0.4	357	
17/04/19	4:00	0	-	
17/04/19	5:00	0.4	349	
17/04/19	6:00	0.4	311	
17/04/19	7:00	0	-	
17/04/19	8:00	0.4	177	
17/04/19	9:00	1.3	142	
17/04/19	10:00	1.3	139	
17/04/19	11:00	1.8	353	

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)	
17/04/19	12:00	2.2	351	
17/04/19	13:00	1.8	329	
17/04/19	14:00	1.8	284	
17/04/19	15:00	2.2	231	
17/04/19	16:00	2.7	225	
17/04/19	17:00	3.1	216	
17/04/19	18:00	2.2	224	
17/04/19	19:00	1.8	231	
17/04/19	20:00	0.9	224	
17/04/19	21:00	1.3	96	
17/04/19	22:00	1.3	66	
17/04/19	23:00	1.8	89	
17/04/21	0:00	0.9	70	
17/04/21	1:00	0.9	41	
17/04/21	2:00	0.9	63	
17/04/21	3:00	0.9	58	
17/04/21	4:00	0.4	61	
17/04/21	5:00	0.4	55	
17/04/21	6:00	0	-	
17/04/21	7:00	0		
17/04/21	8:00	0.4	63	
17/04/21	9:00	0.4	194	
17/04/21	10:00	0.9	231	
17/04/21	11:00	1.8	228	
17/04/21	12:00	2.2	206	
17/04/21	13:00	2.7	214	
17/04/21	14:00	2.7	231	
17/04/21	15:00	3.1	205	
17/04/21	16:00	3.1	157	
17/04/21	17:00	0.9	311	
17/04/21	18:00	0.9	276	
17/04/21	19:00	0.9	263	
17/04/21	20:00	0.4	294	
17/04/21	21:00	0.4	288	
17/04/21	22:00	0	-	
17/04/21	23:00	0	-	
17/04/22	0:00	0.9	312	
17/04/22	1:00	2.2	305	
17/04/22	2:00	1.3	354	
17/04/22	3:00	0.9	61	
17/04/22	4:00	0.9	57	
17/04/22	5:00	1.3	13	
17/04/22	6:00	0.9	344	
17/04/22	7:00	0.9	353	
17/04/22	8:00	0.9	311	
17/04/22	9:00	0.9	309	
17/04/22	10:00	0.9	315	
17/04/22	11:00	1.8	348	
17/04/22	12:00	1.8	300	
17/04/22	13:00	0.9	5	
17/04/22	14:00	0.9	352	
17/04/22	15:00	0.9	19	
17/04/22	16:00	0.9	52	
17/04/22	17:00	0.9	47	
17/04/22	18:00	0.9	356	
17/04/22	19:00	0.4	348	
17/04/22	20:00	0.9	339	

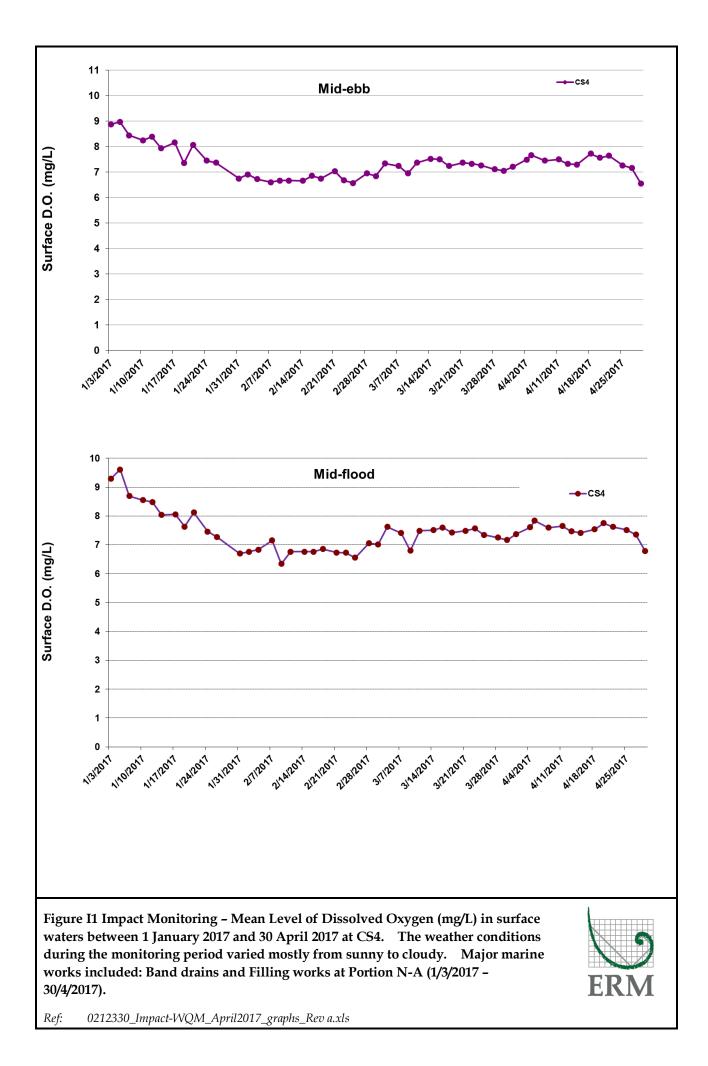
Meteorological Data for Impact Monitoring in the reporting period				
Date (yy-mm-dd)	Time (24hrs)	Average of Wind Speed (m/s)	Average of Wind Direction(degree)	
17/04/22	21:00	1.3	61	
17/04/22	22:00	1.3	52	
17/04/22	23:00	1.8	55	
17/04/24	0:00	0.9	69	
17/04/24	1:00	1.3	65	
17/04/24	2:00	1.8	94	
17/04/24	3:00	1.3	33	
17/04/24	4:00	1.3	41	
17/04/24	5:00	1.3	98	
17/04/24	6:00	0.9	84	
17/04/24	7:00	1.8	85	
17/04/24	8:00	1.8	91	
17/04/24	9:00	2.7	88	
17/04/24	10:00	2.2	112	
17/04/24	11:00	1.8	93	
17/04/24	12:00	2.7	104	
17/04/24	13:00	2.7	112	
17/04/24	14:00	3.1	106	
17/04/24	15:00	4	109	
17/04/24	16:00	3.6	87	
17/04/24	17:00	4	103	
17/04/24	18:00	3.6	116	
17/04/24	19:00	3.6	95	
17/04/24	20:00	3.1	87	
17/04/24	21:00	3.1	85	
17/04/24	22:00	3.6	88	
17/04/24	23:00	3.6	91	
17/04/25	0:00	3.6	97	
17/04/25	1:00	3.6	96	
17/04/25	2:00	3.1	103	
17/04/25	3:00	2.2	75	
17/04/25	4:00	2.2	104	
17/04/25	5:00	3.1	104	
	6:00	4	105	
17/04/25	7:00	3.6	115	
17/04/25				
17/04/25	8:00	4.9	106	
17/04/25	9:00	4.9	114	
17/04/25	10:00	4	102	
17/04/25	11:00	4	95	
17/04/25	12:00	4.5	132	
17/04/25	13:00	4.5	128	
17/04/25	14:00	4	127	
17/04/25	15:00	3.6	96	
17/04/25	16:00	4	85	
17/04/25	17:00	4	122	
17/04/25	18:00	3.6	84	
17/04/25	19:00	1.8	92	
17/04/25	20:00	0.4	111	
17/04/25	21:00	0.9	116	
17/04/25	22:00	1.8	92	
17/04/25	23:00	1.8	98	
17/04/27	0:00	0.9	96	
17/04/27	1:00	0	-	
17/04/27	2:00	0	-	
17/04/27	3:00	0	-	
17/04/27	4:00	0	-	
17/04/27	5:00	0.4	312	

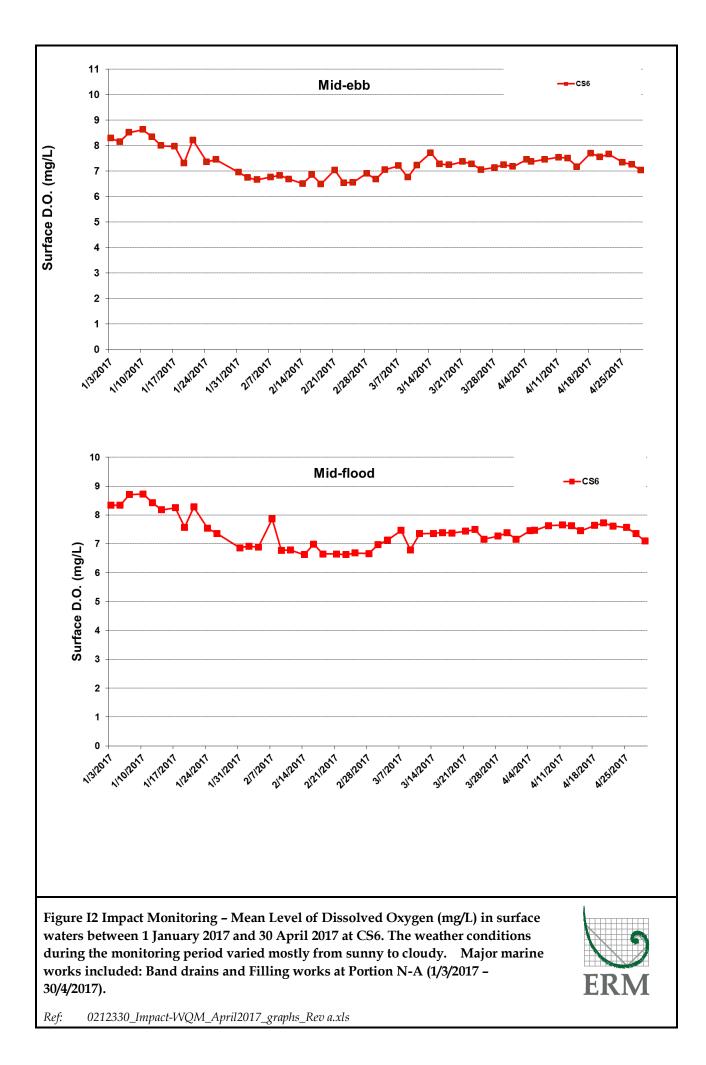
Meteorological Data for Impact Monitoring in the reporting period				
Date (yy-mm-dd)	Time (24hrs)	Average of Wind Speed (m/s)	Average of Wind Direction(degree)	
17/04/27	6:00	0.4	169	
17/04/27	7:00	0.4	204	
17/04/27	8:00	1.3	204	
17/04/27	9:00	1.3	322	
17/04/27	10:00	1.8	51	
17/04/27	11:00	2.2	50	
17/04/27	12:00	3.1	1	
17/04/27	13:00	2.2	347	
17/04/27	14:00	1.3	339	
17/04/27	15:00	0.9	54	
17/04/27	16:00	0.9	321	
17/04/27	17:00	0.9	355	
17/04/27	18:00	1.3	303	
17/04/27	19:00	0.9	299	
17/04/27	20:00	0.9	346	
17/04/27	21:00	1.3	342	
17/04/27	22:00	1.3	351	
17/04/27	23:00	1.3	347	
17/04/28	0:00	2.2	12	
17/04/28	1:00	2.7	354	
17/04/28	2:00	3.1	349	
17/04/28	3:00	2.7	24	
17/04/28	4:00	2.2	46	
17/04/28	5:00	2.2	48	
17/04/28	6:00	1.8	40	
17/04/28	7:00	2.2	51	
	8:00	1.8		
17/04/28			47	
17/04/28	9:00	1.8	53	
17/04/28	10:00	1.3	44	
17/04/28	11:00	1.8	120	
17/04/28	12:00	1.3	184	
17/04/28	13:00	1.8	234	
17/04/28	14:00	1.8	218	
17/04/28	15:00	2.2	233	
17/04/28	16:00	2.2	227	
17/04/28	17:00	2.2	235	
17/04/28	18:00	1.8	126	
17/04/28	19:00	2.7	122	
17/04/28	20:00	2.2	74	
17/04/28	21:00	2.7	82	
17/04/28	22:00	2.2	74	
17/04/28	23:00	2.7	86	
17/04/30	0:00	0.9	62	
17/04/30	1:00	0.9	59	
17/04/30	2:00	0.4	74	
17/04/30	3:00	0	-	
17/04/30	4:00	0	-	
17/04/30	5:00	0	-	
17/04/30	6:00	0	-	
17/04/30	7:00	0	-	
17/04/30	8:00	0.9	88	
17/04/30	9:00	1.3	94	
17/04/30	10:00	1.8	116	
17/04/30	11:00	2.2	86	
17/04/30	12:00	2.2	63	
17/04/30	13:00	2.7	123	
17/04/30	14:00	2.2	141	

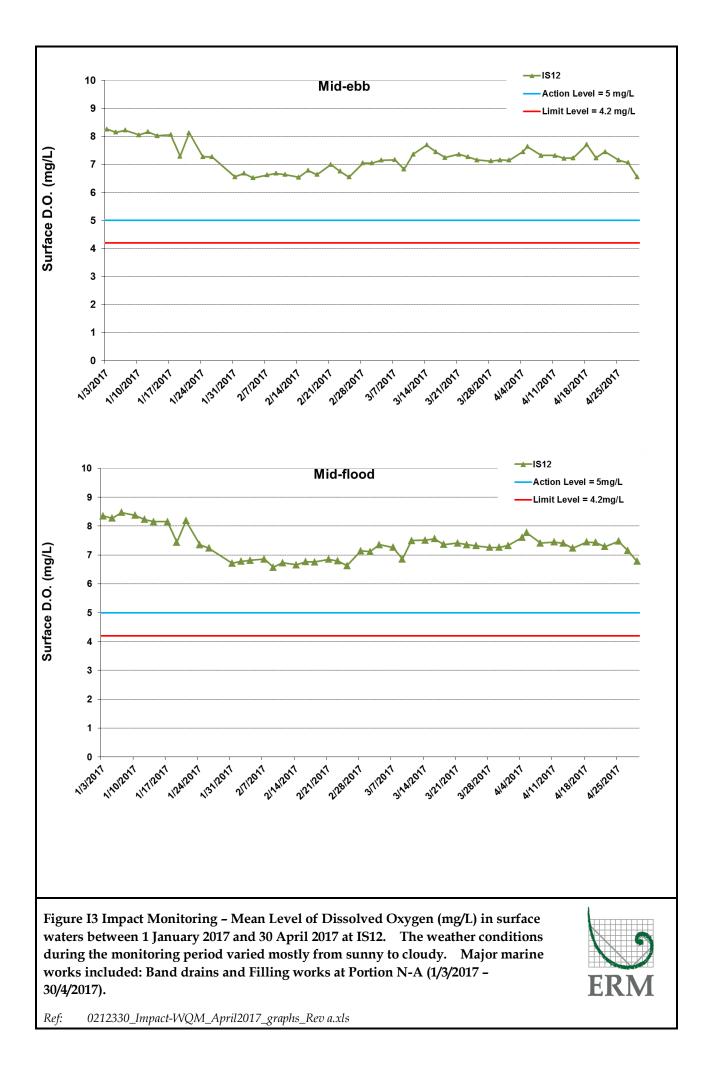
Meteorological Data for Impact Monitoring in the reporting period			
Date (yy-mm-dd)	Time (24hrs)	Average of Wind Speed (m/s)	Average of Wind Direction(degree)
17/04/30	15:00	2.2	132
17/04/30	16:00	3.1	102
17/04/30	17:00	3.1	133
17/04/30	18:00	3.1	127
17/04/30	19:00	2.2	115
17/04/30	20:00	2.7	104
17/04/30	21:00	3.1	124
17/04/30	22:00	2.7	100
17/04/30	23:00	2.7	94

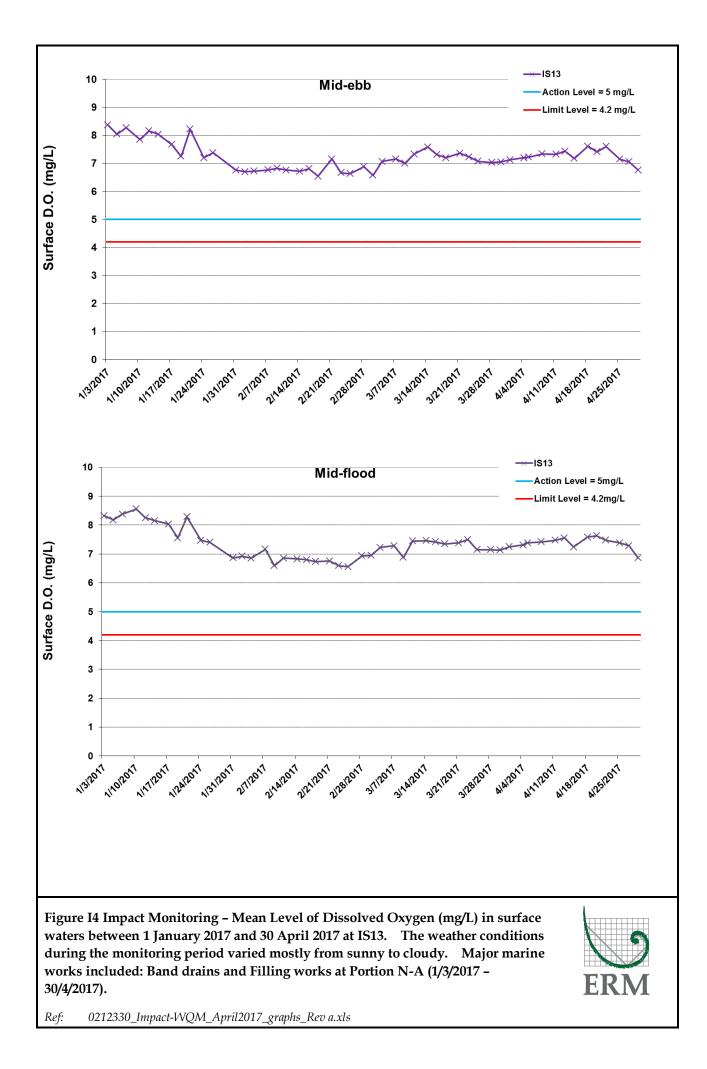
Appendix I

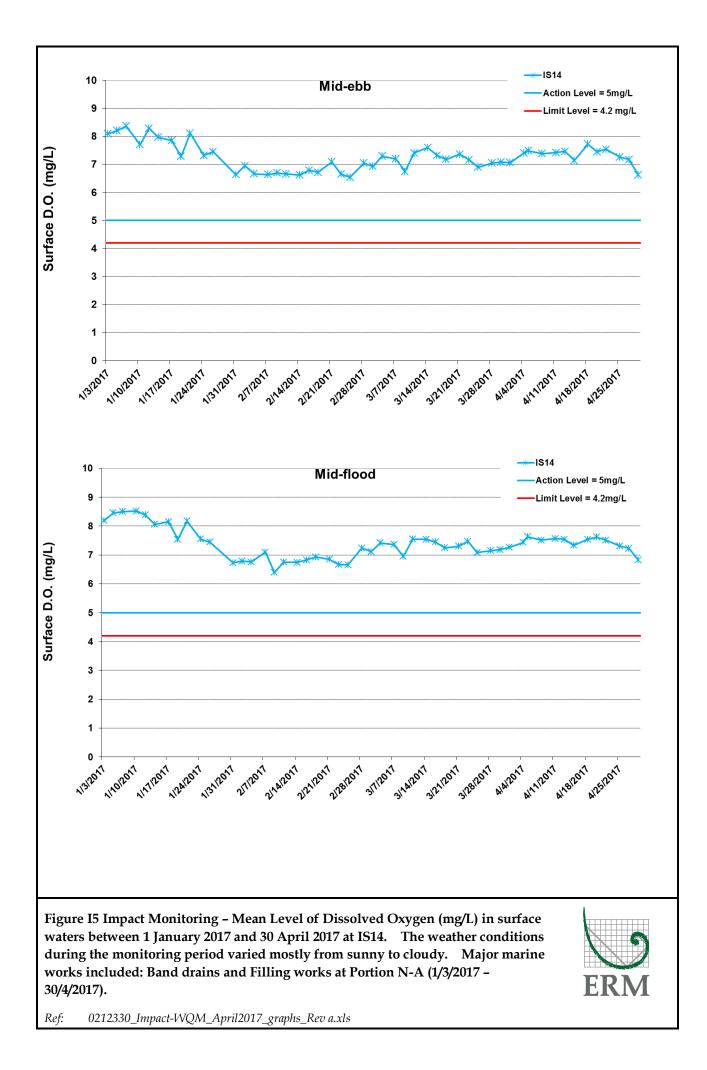
Impact Water Quality Monitoring Results

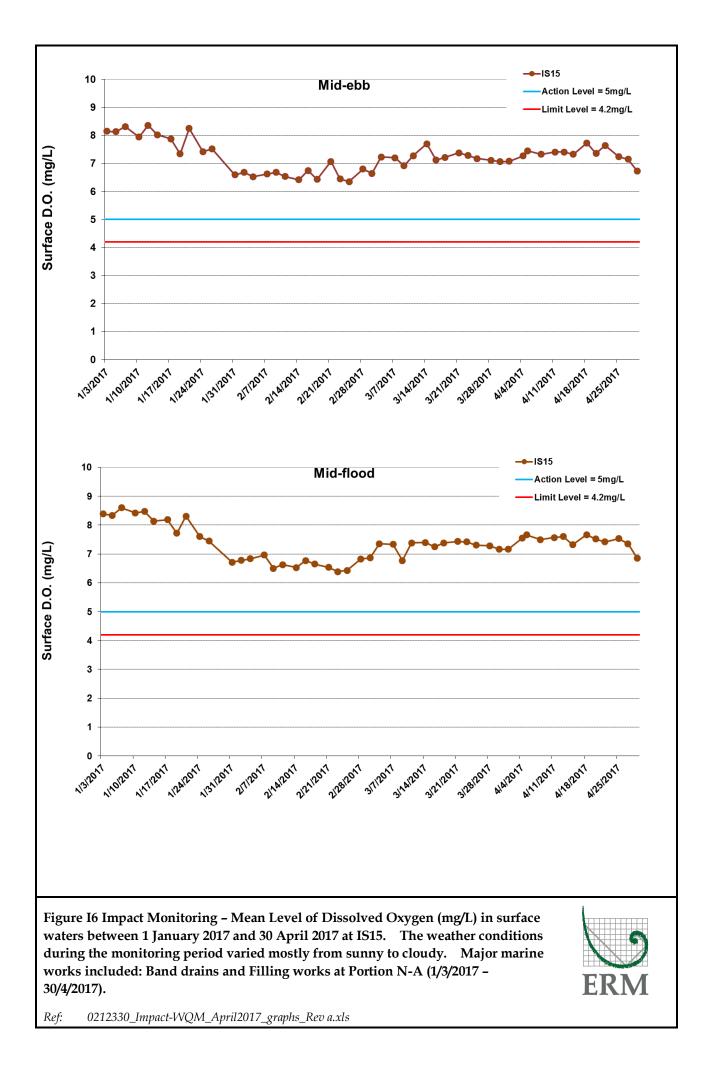


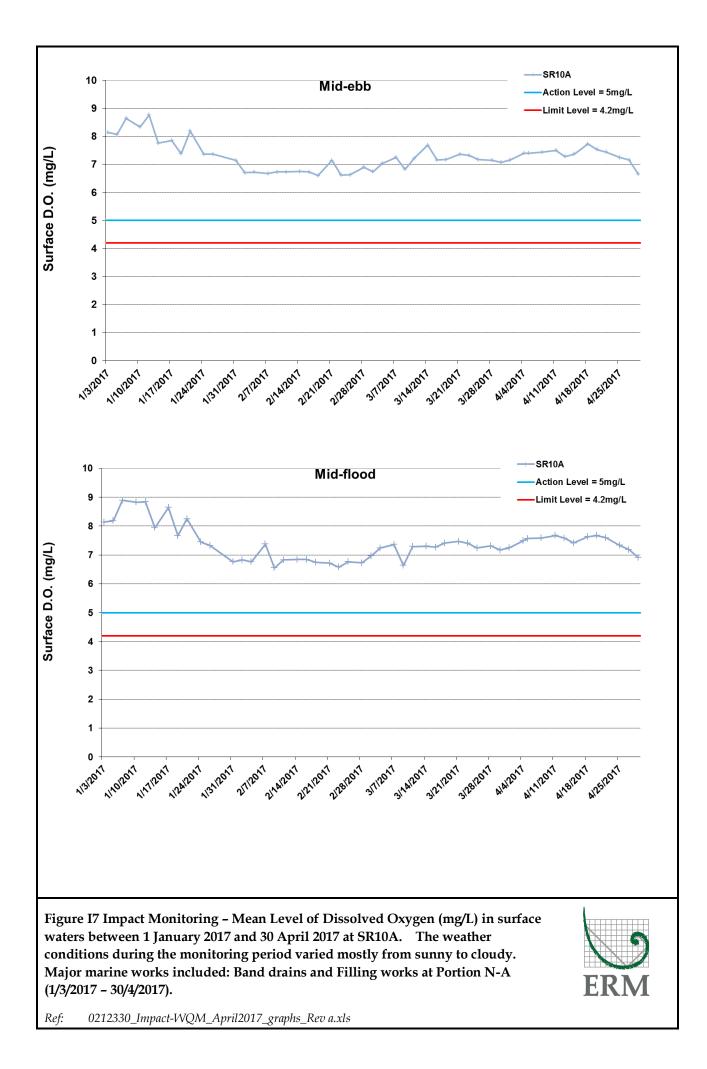


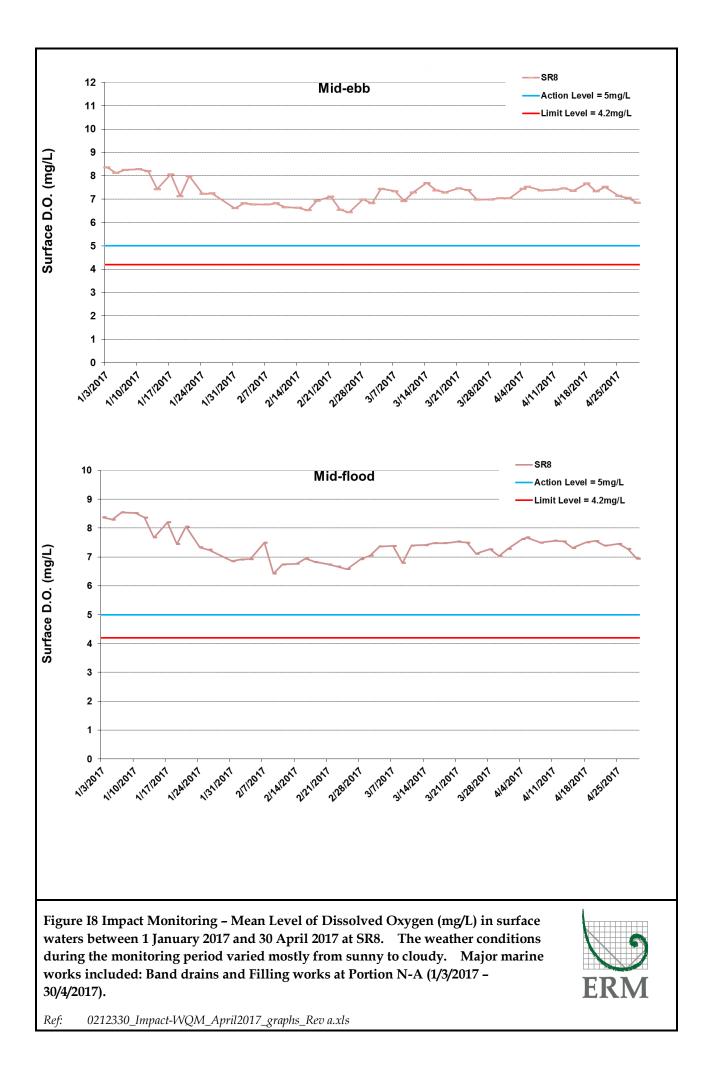


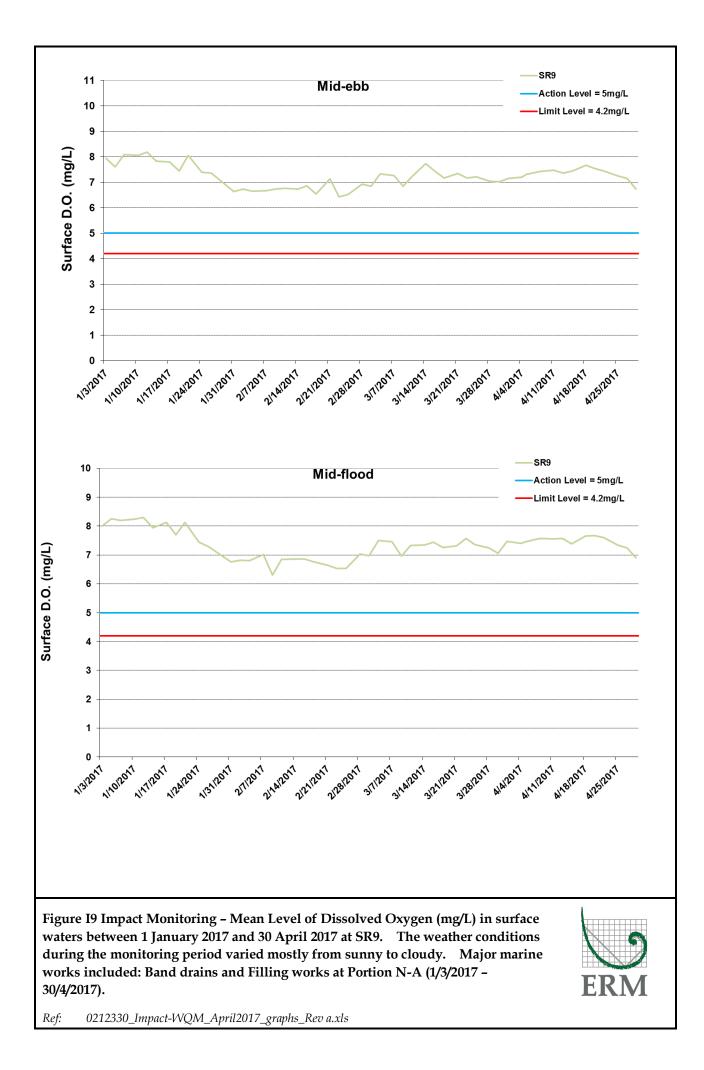


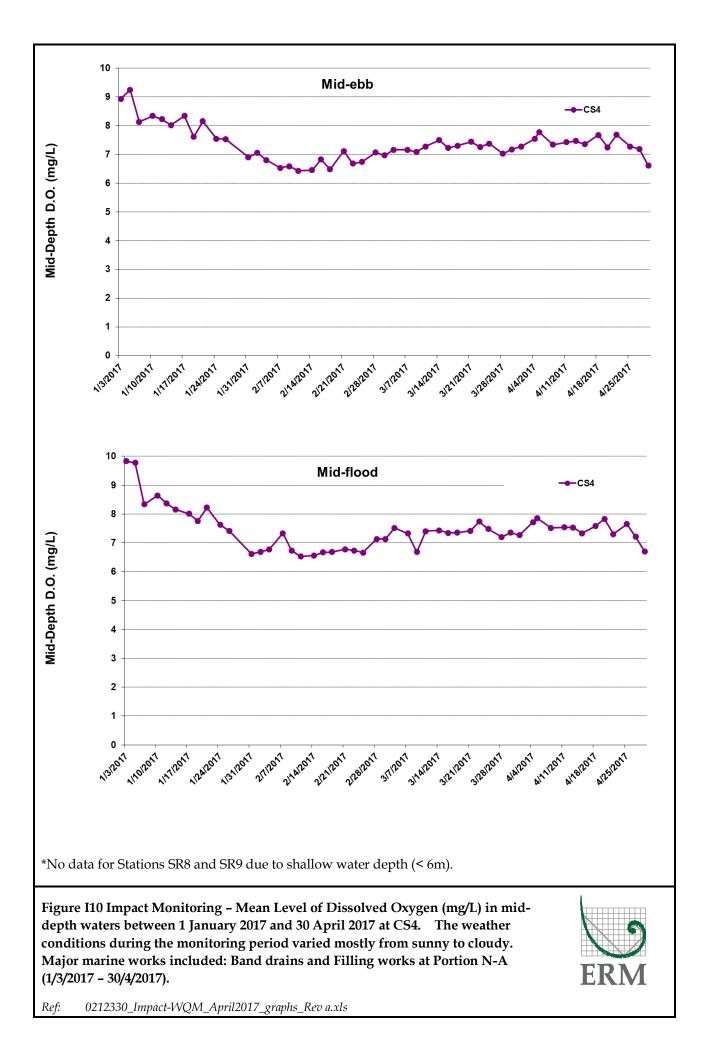


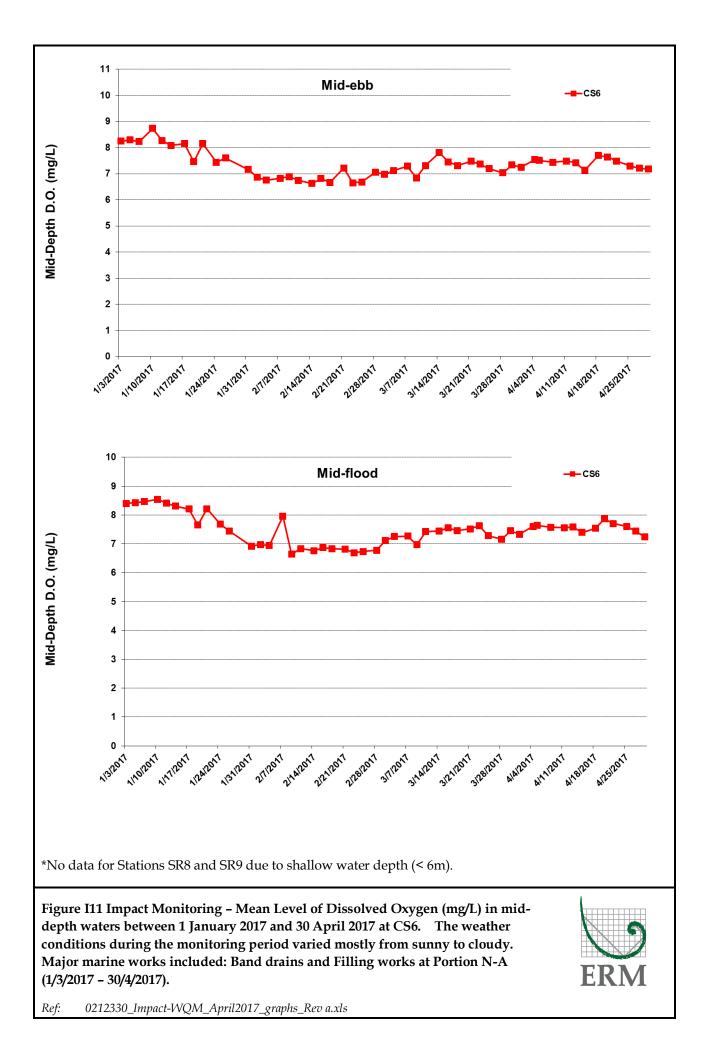


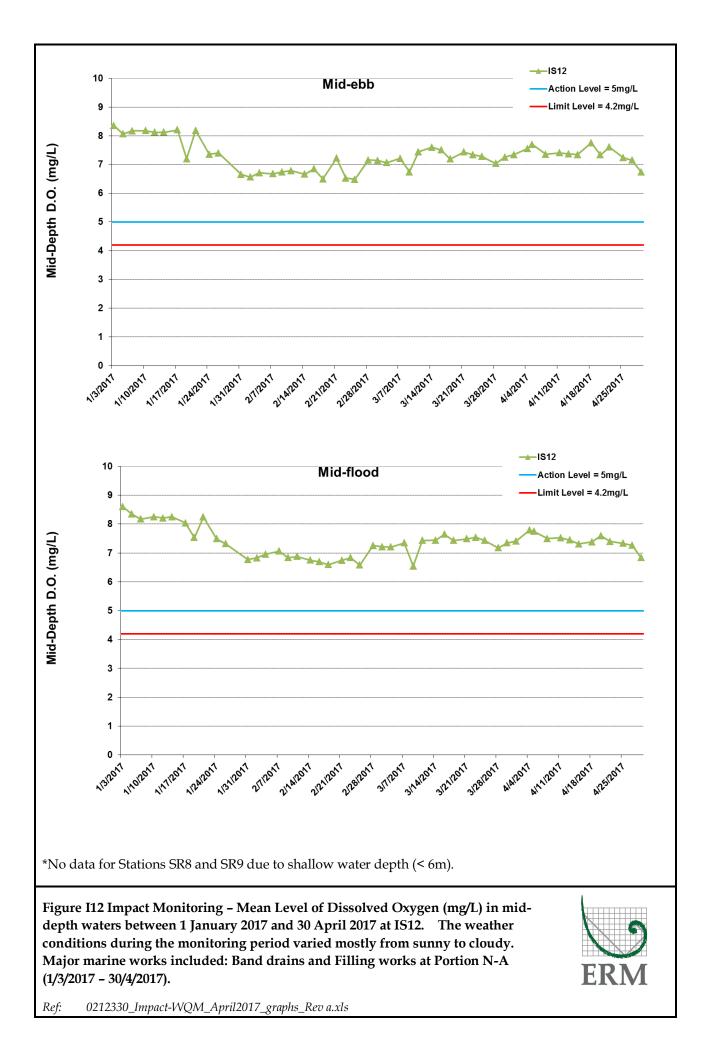


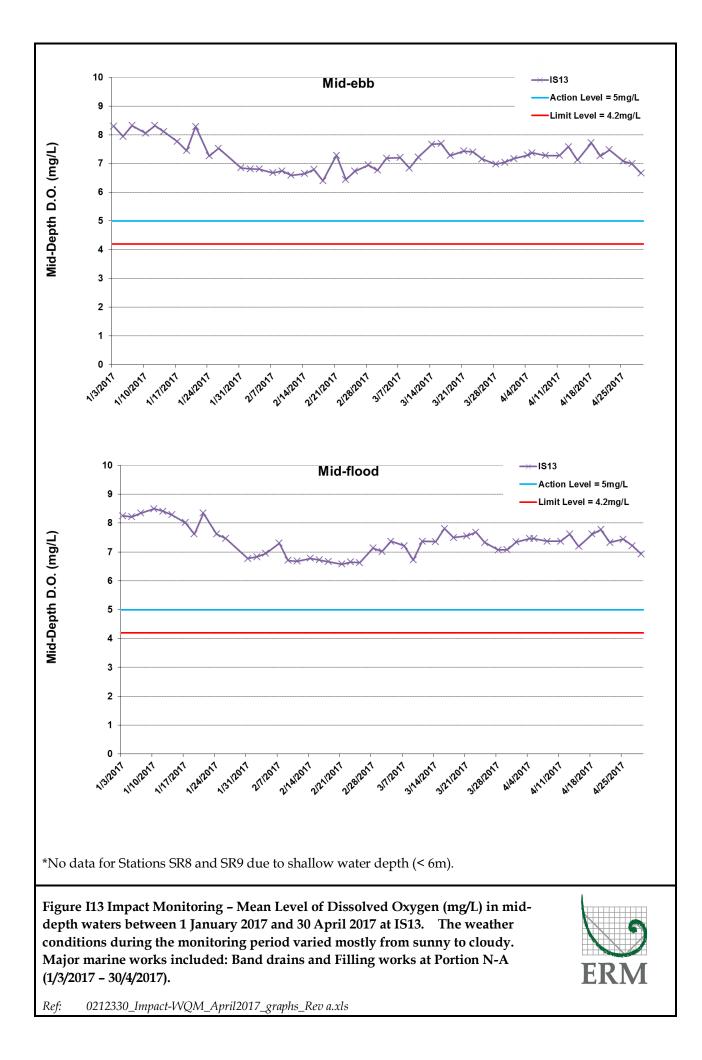


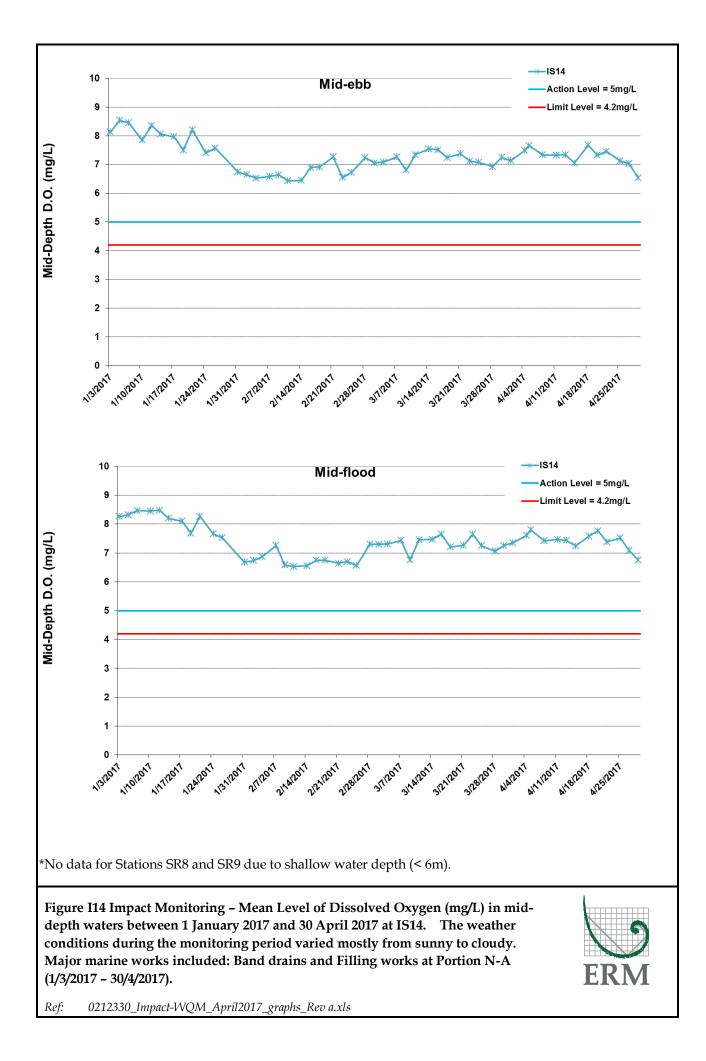


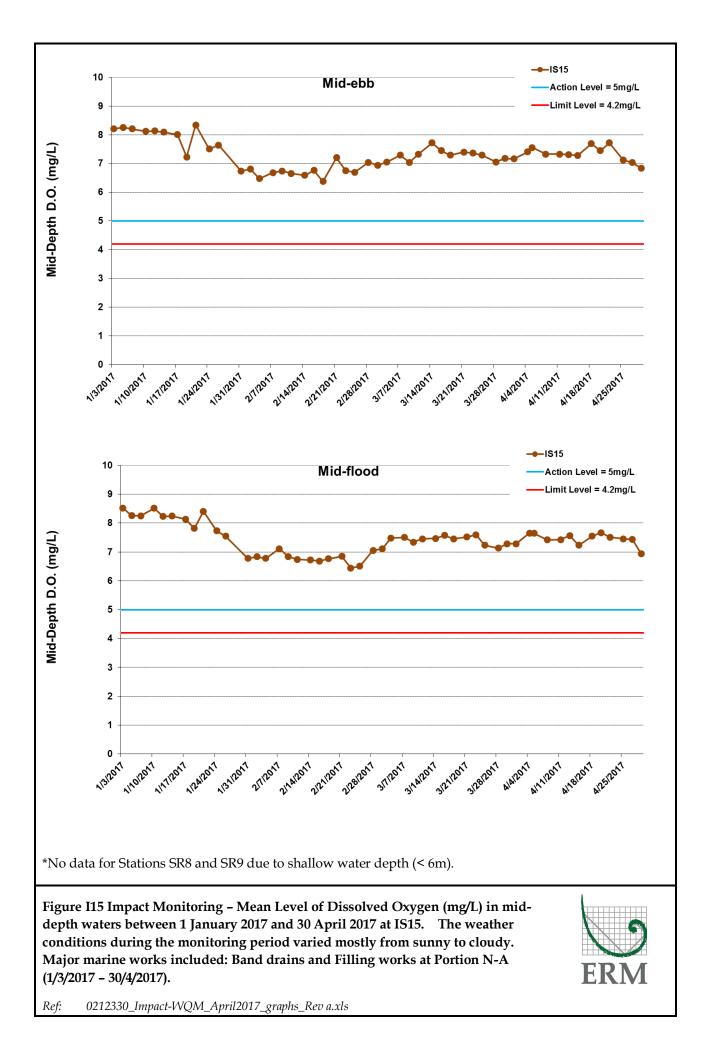


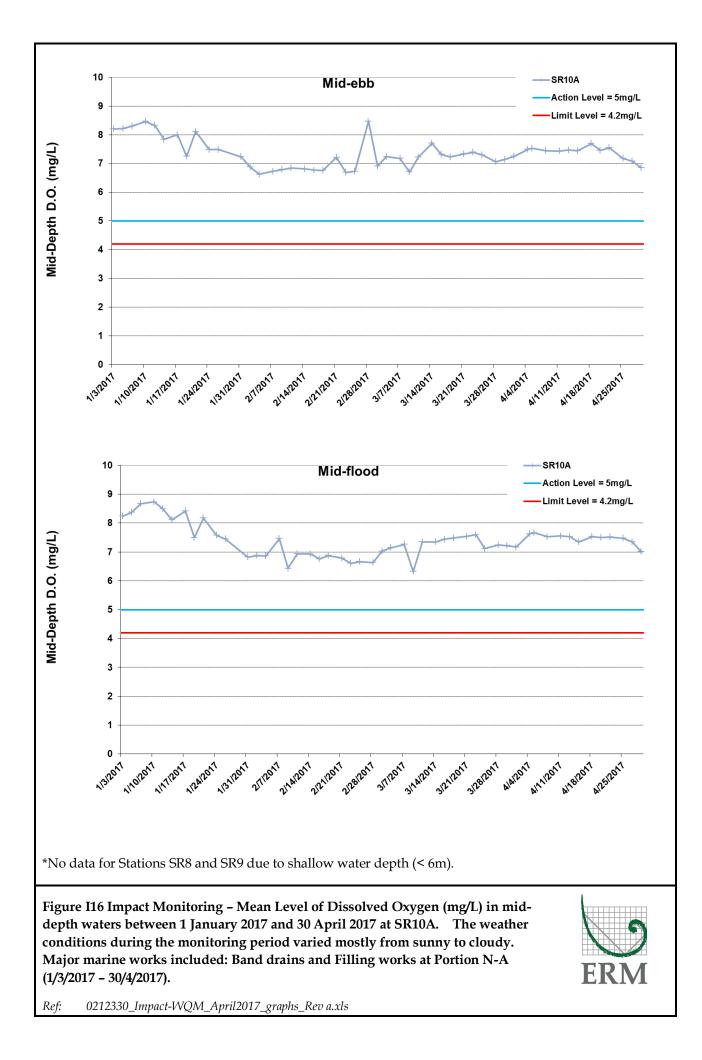


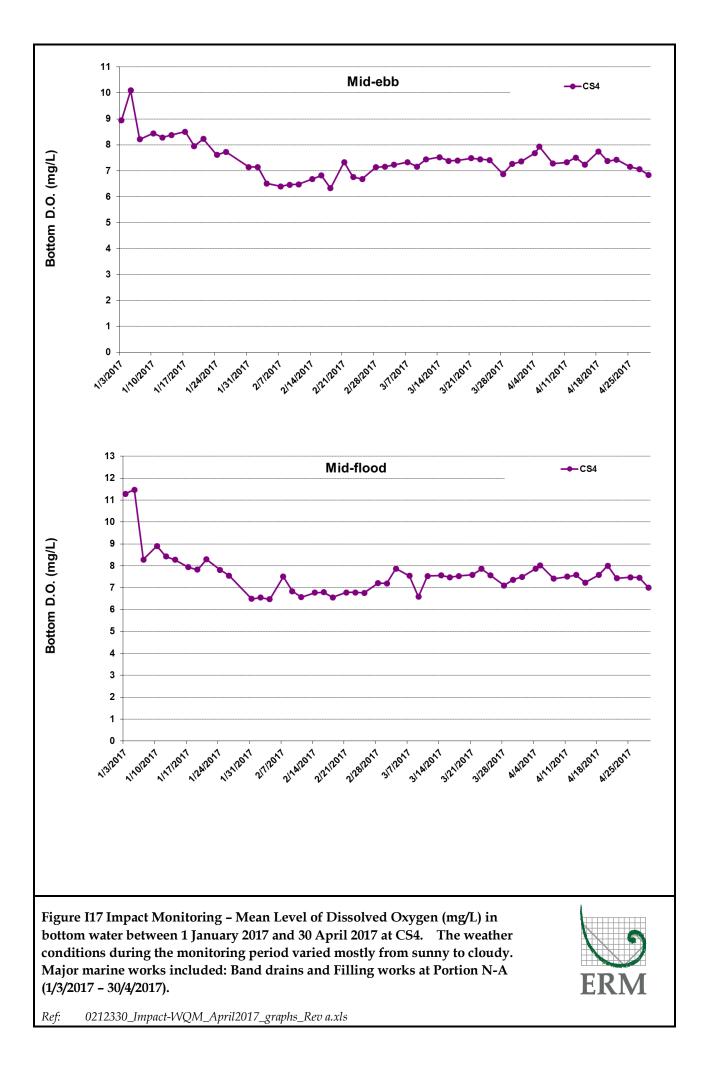


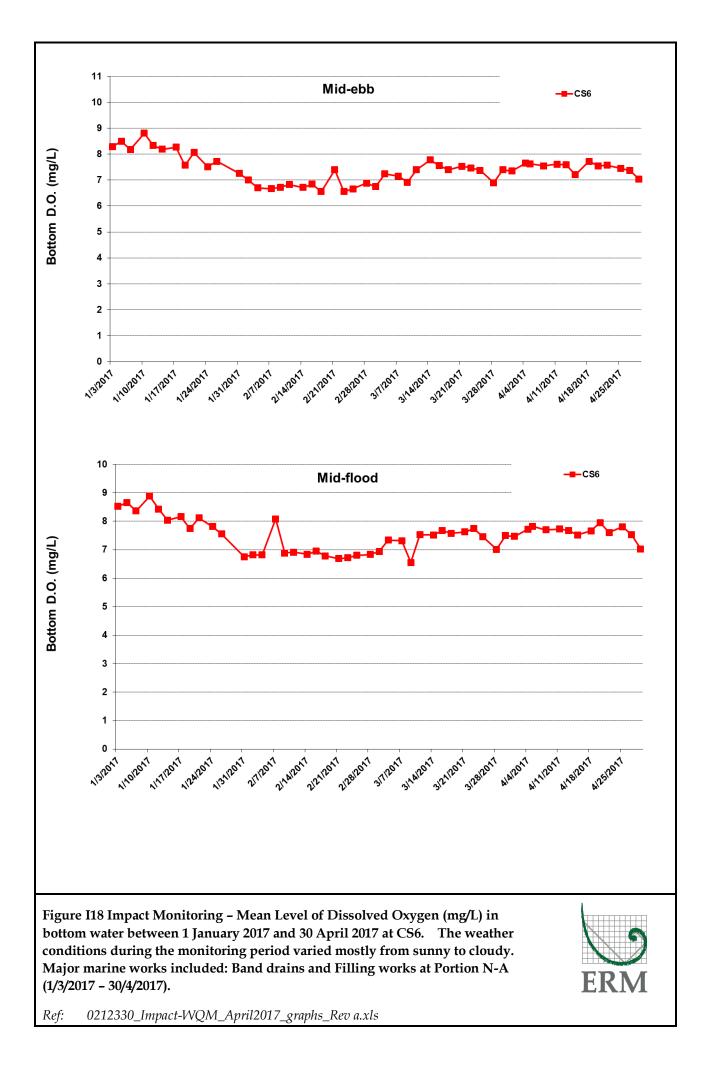


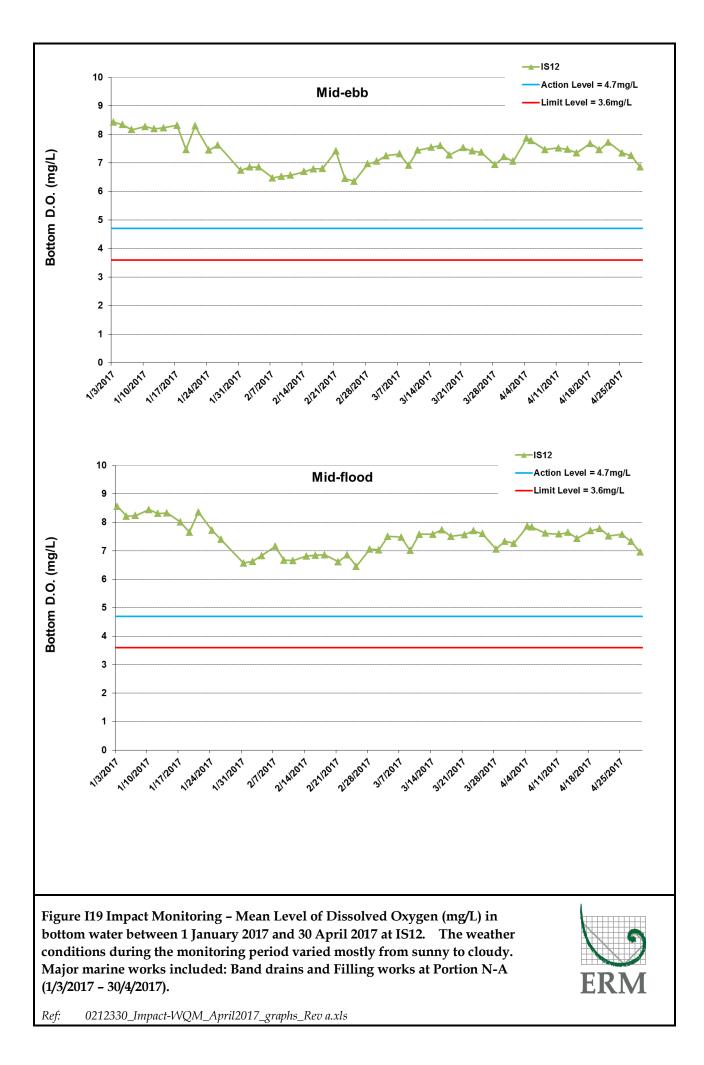


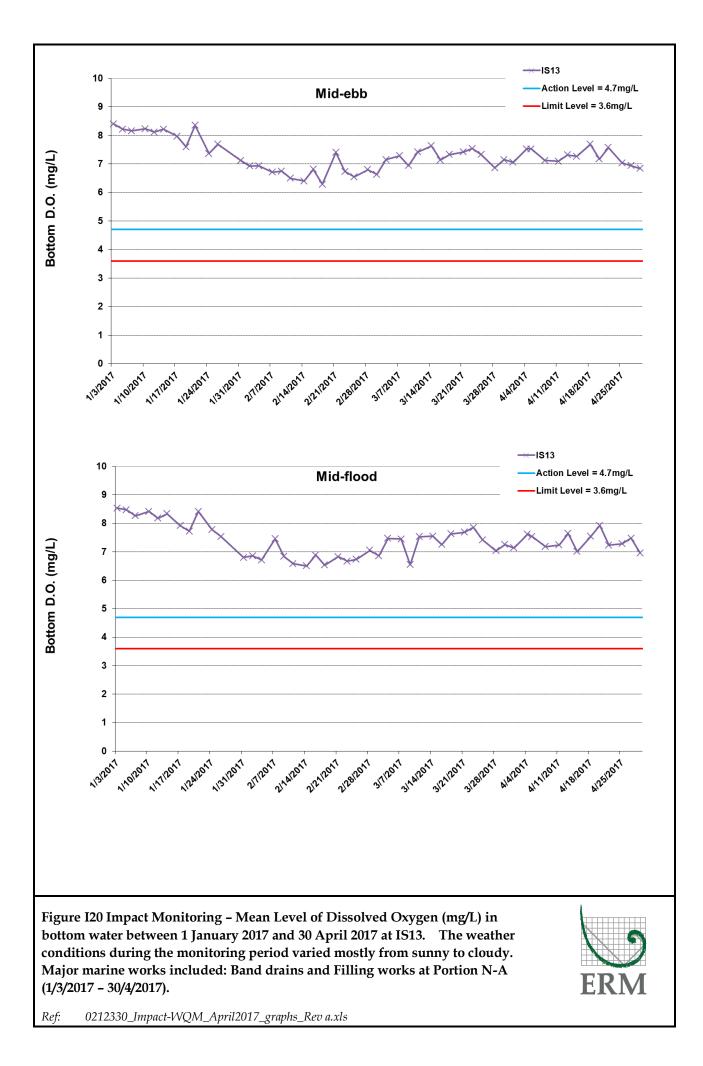


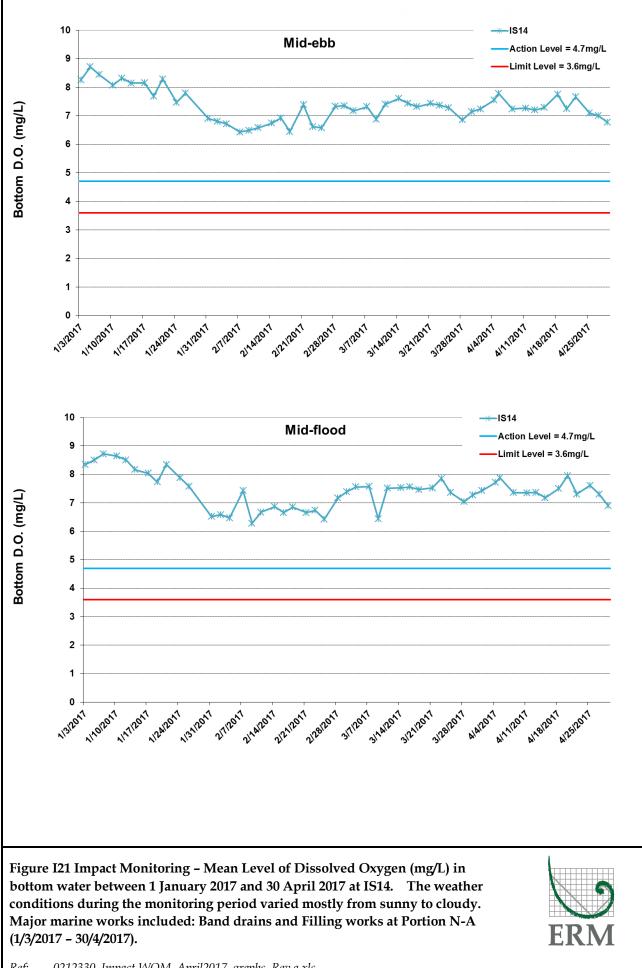


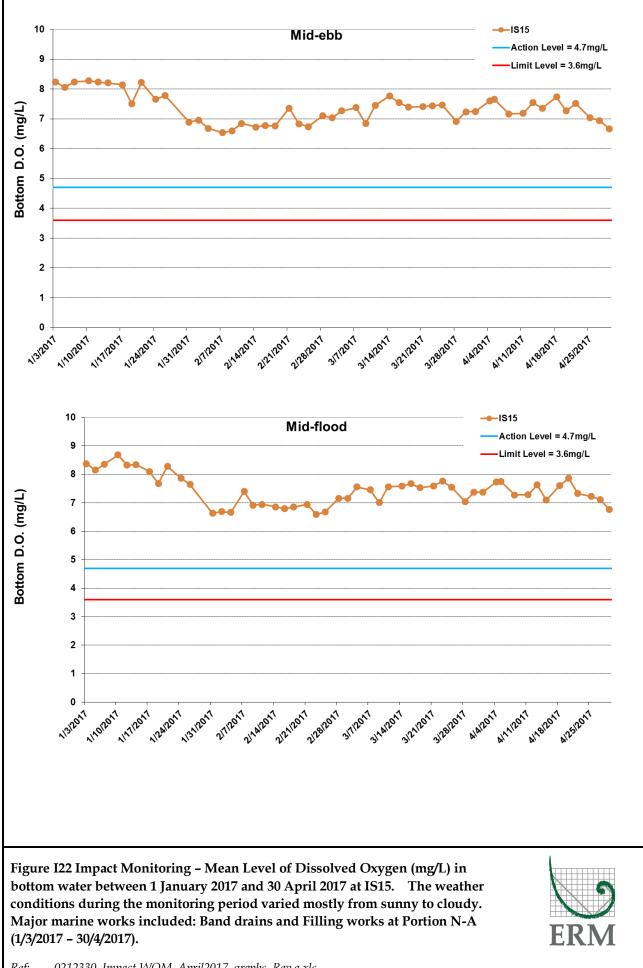


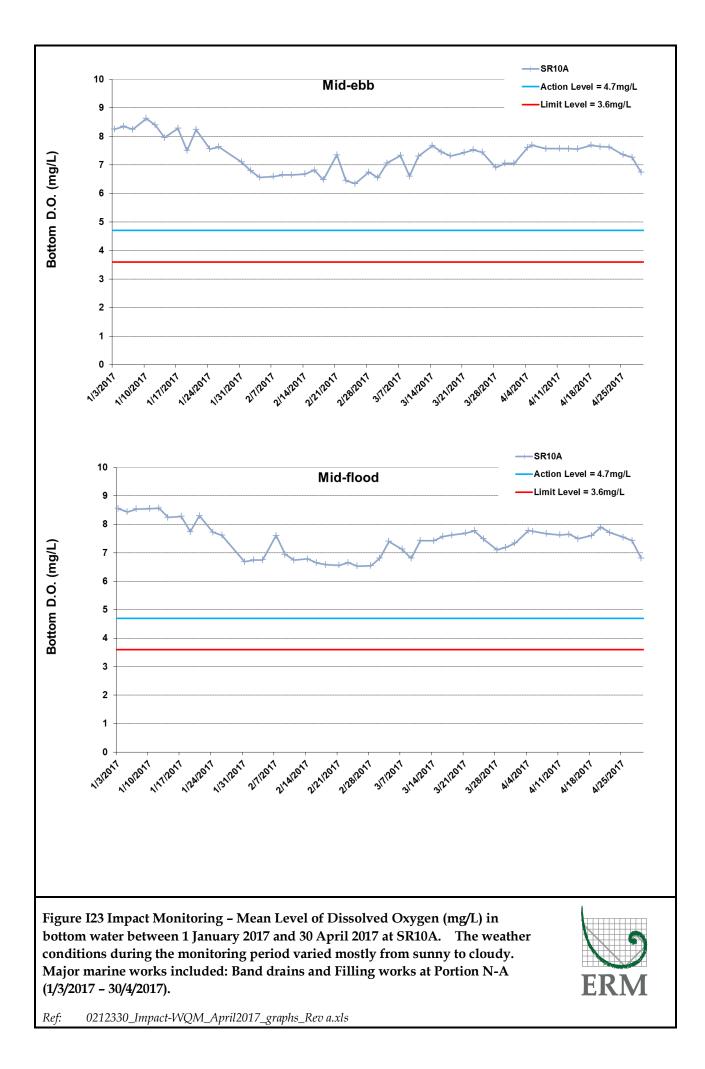


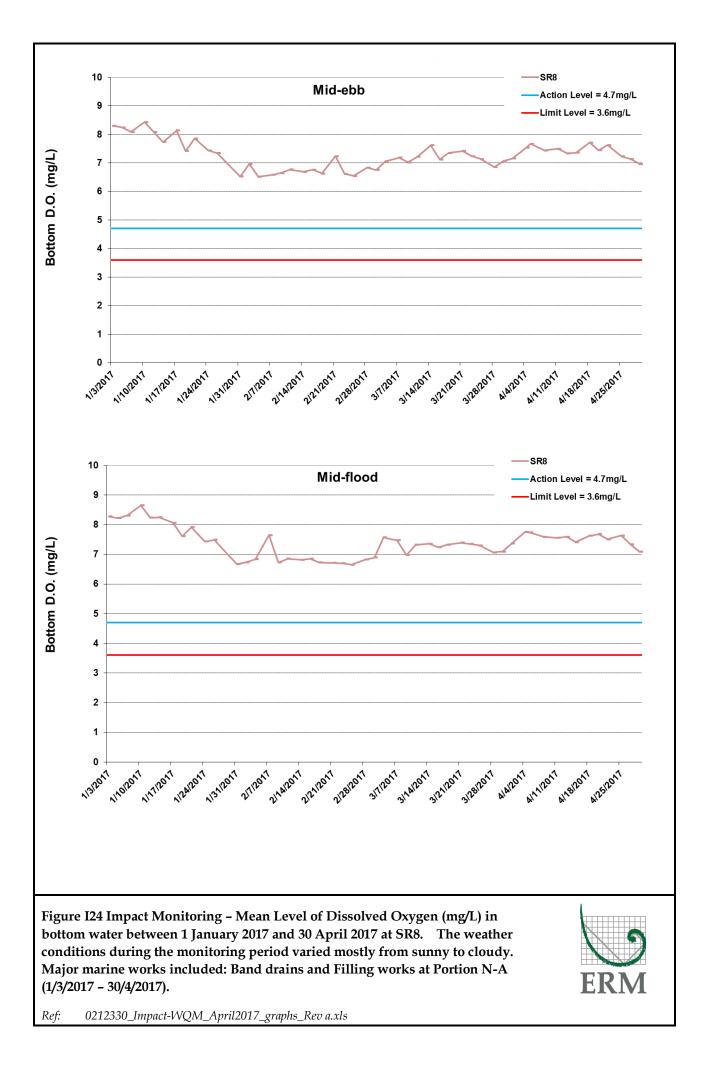


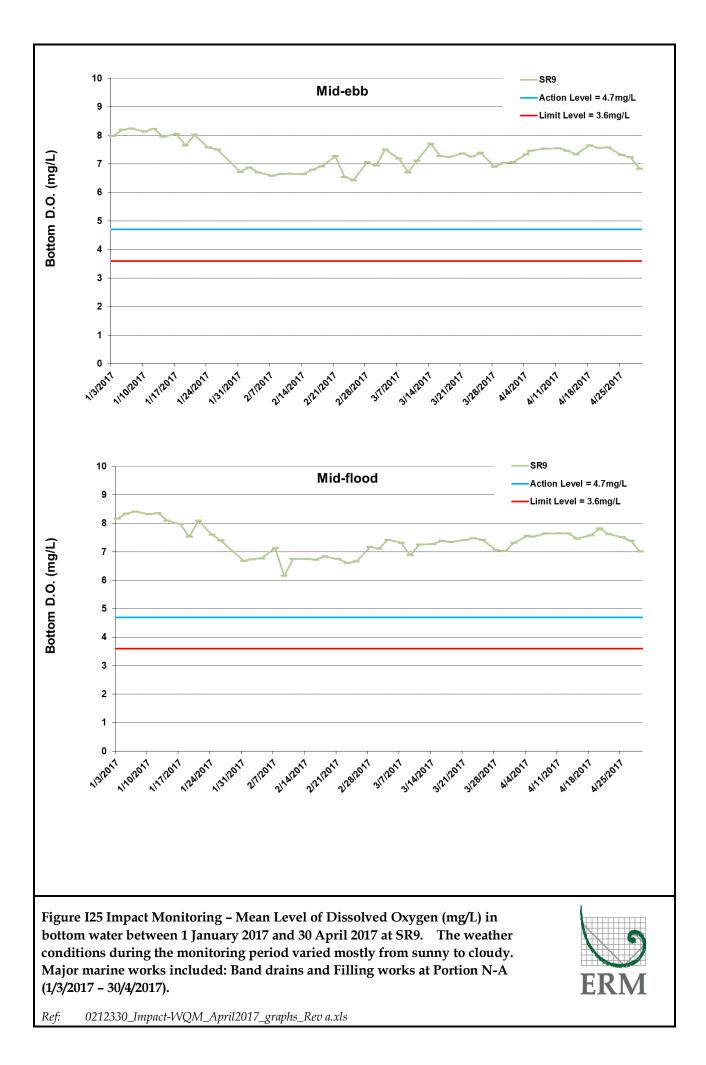


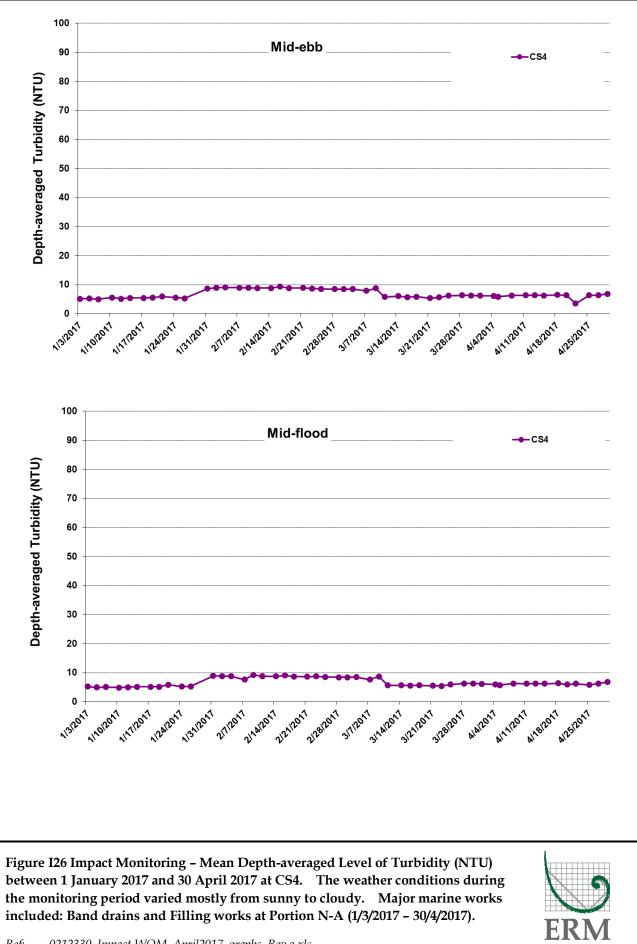


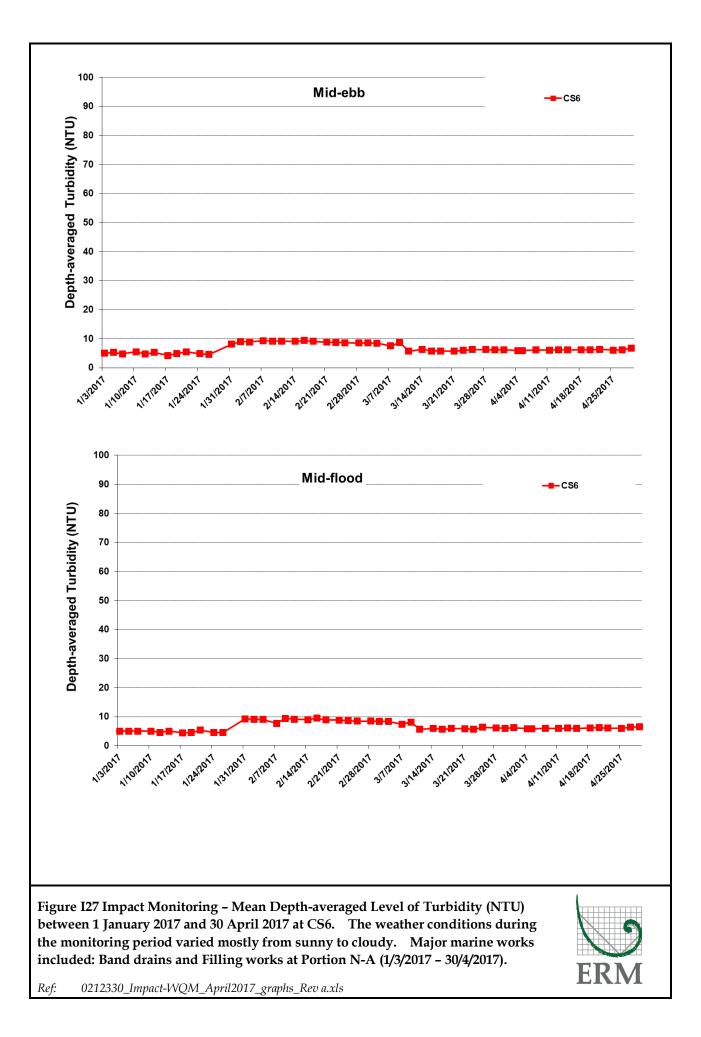


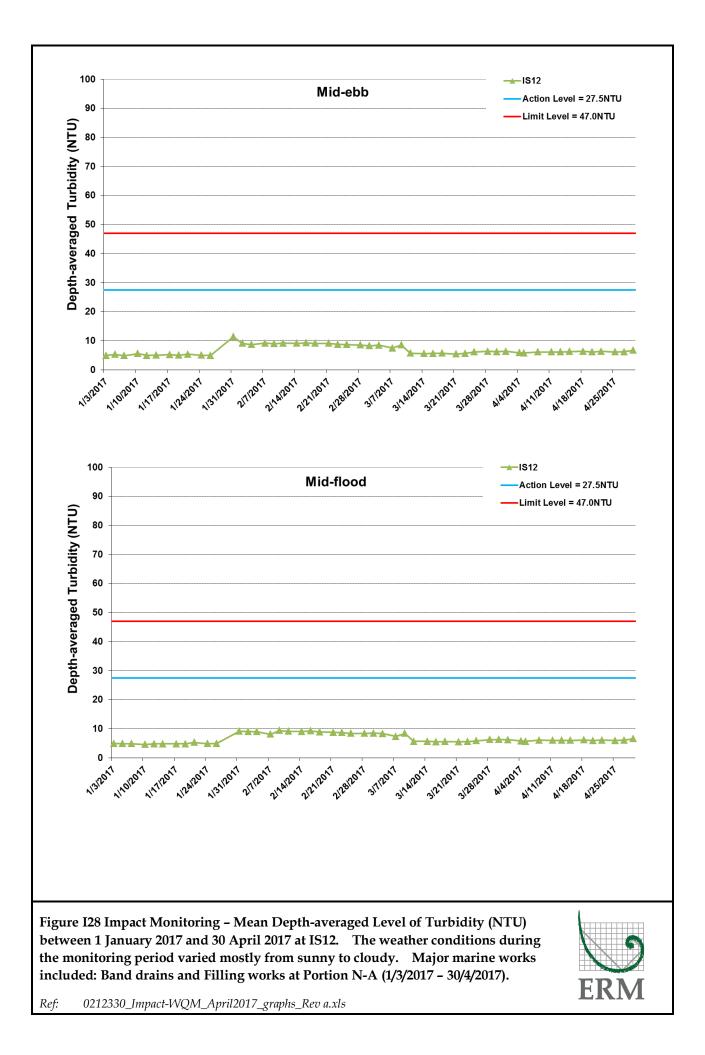


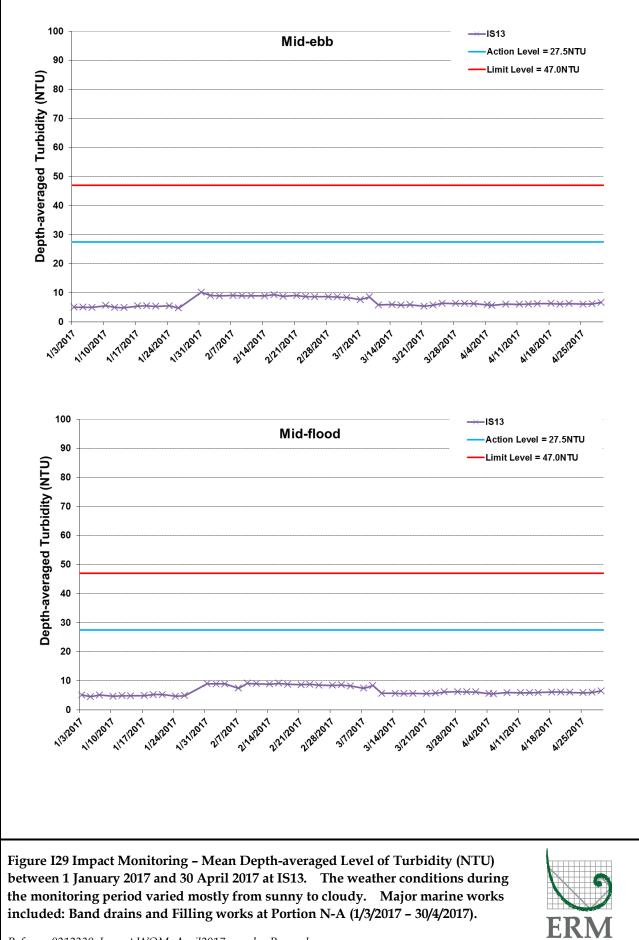


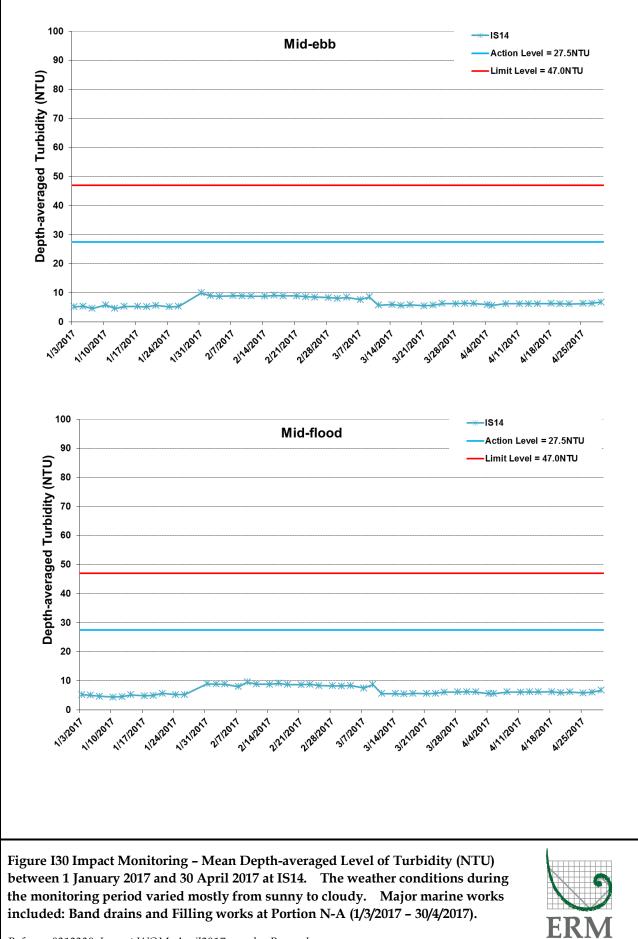


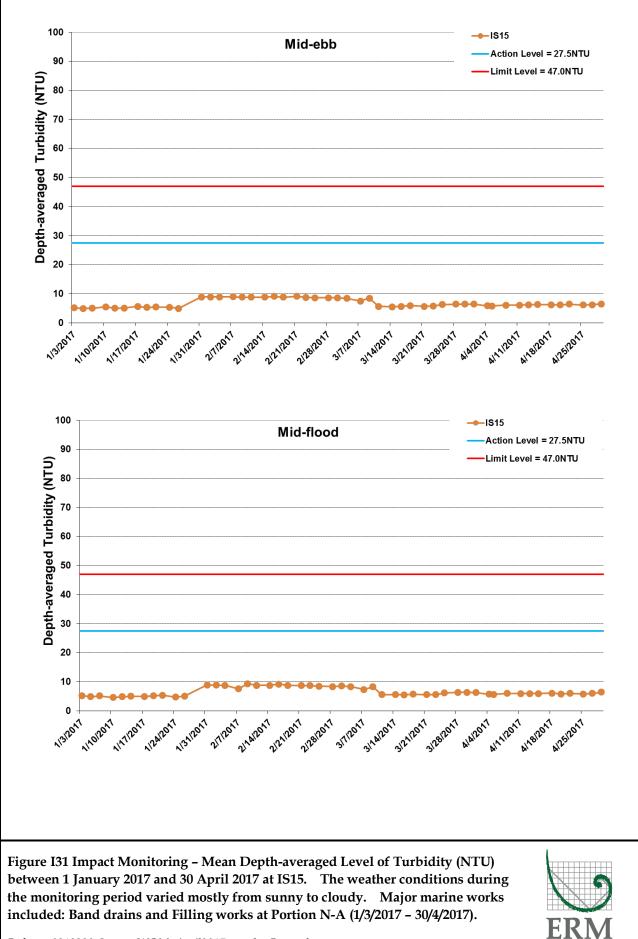


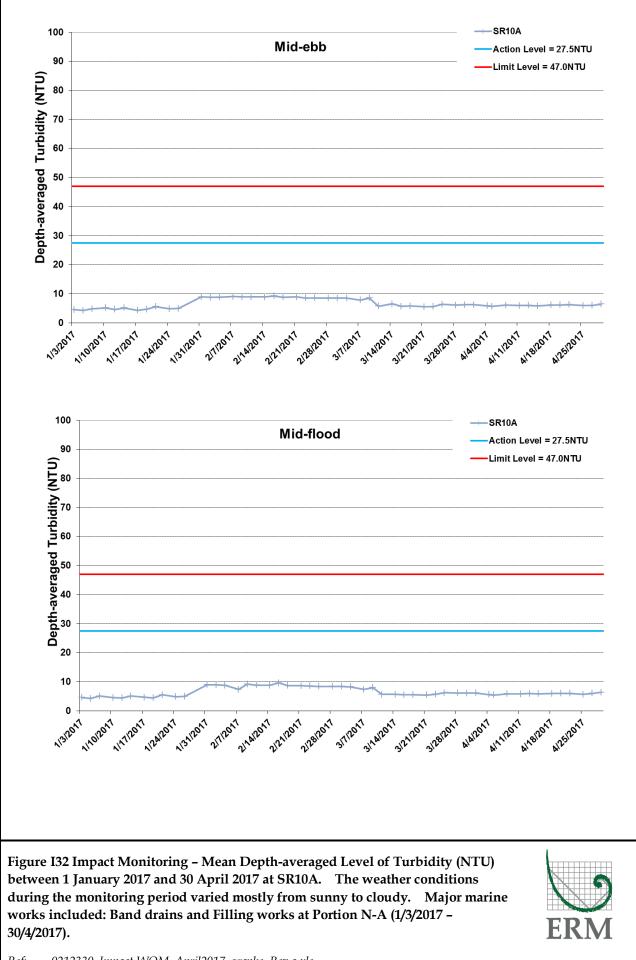


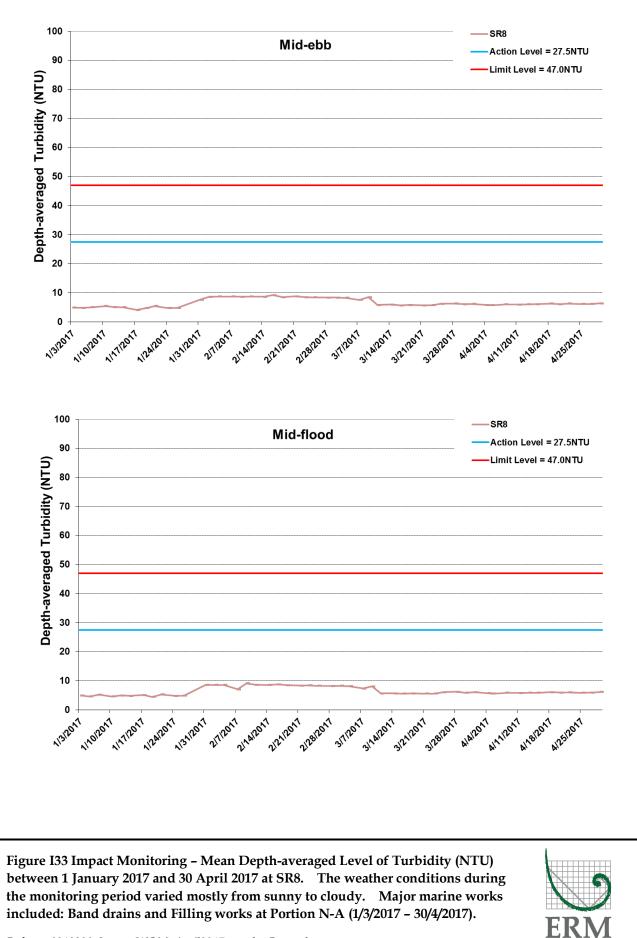


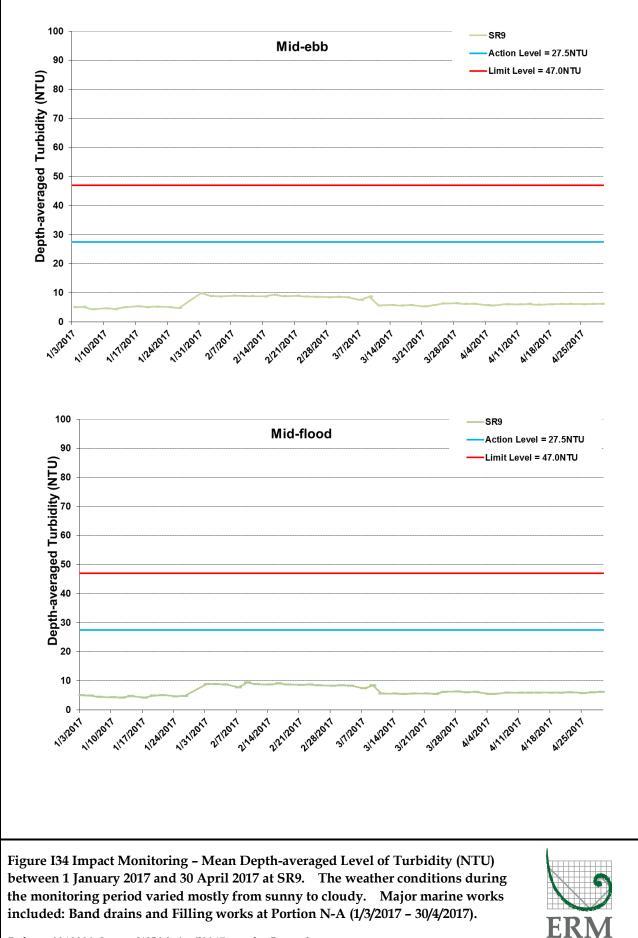


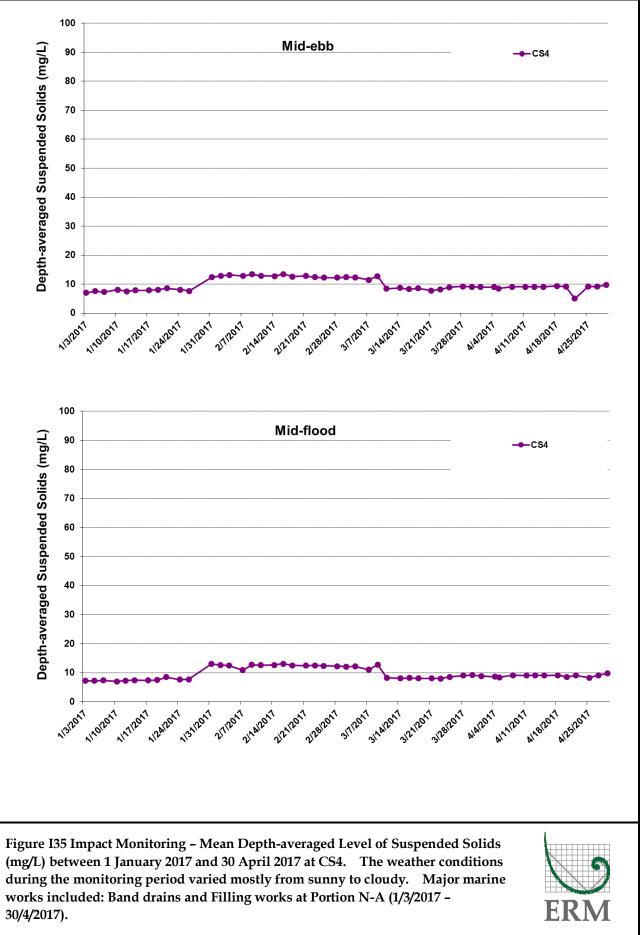


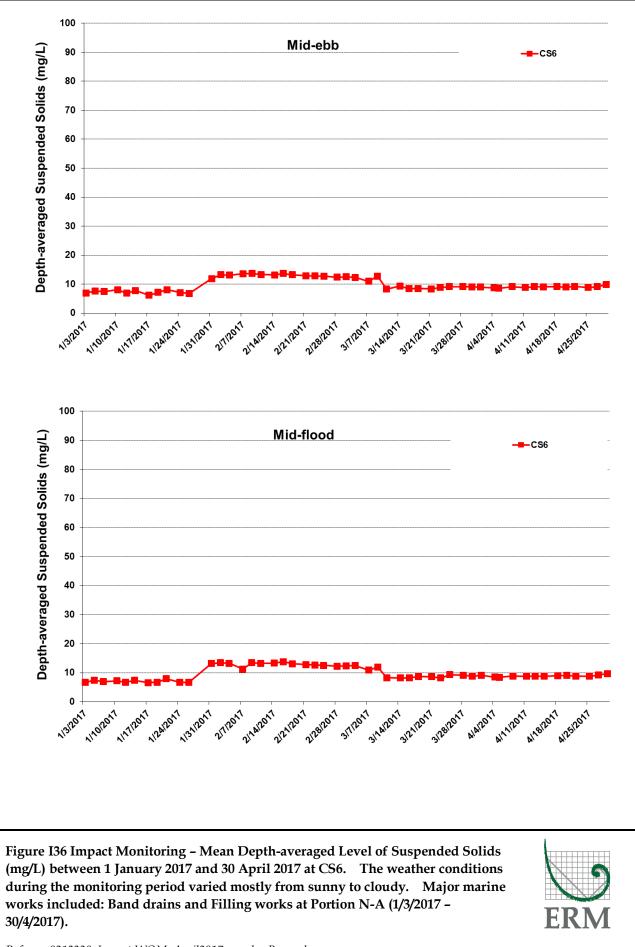


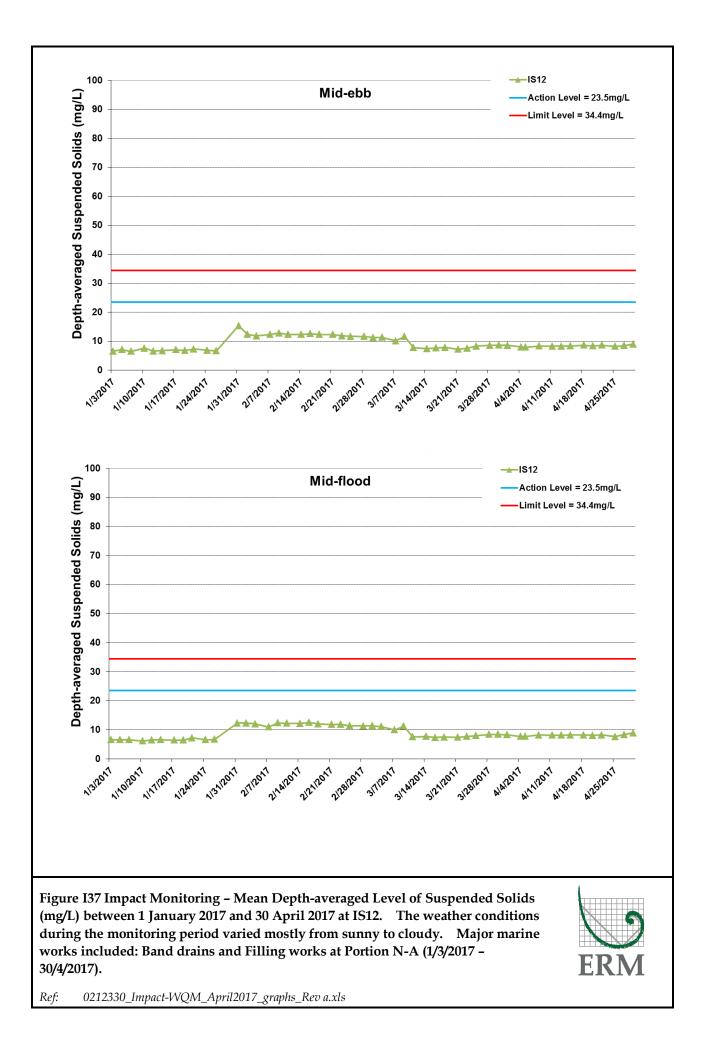


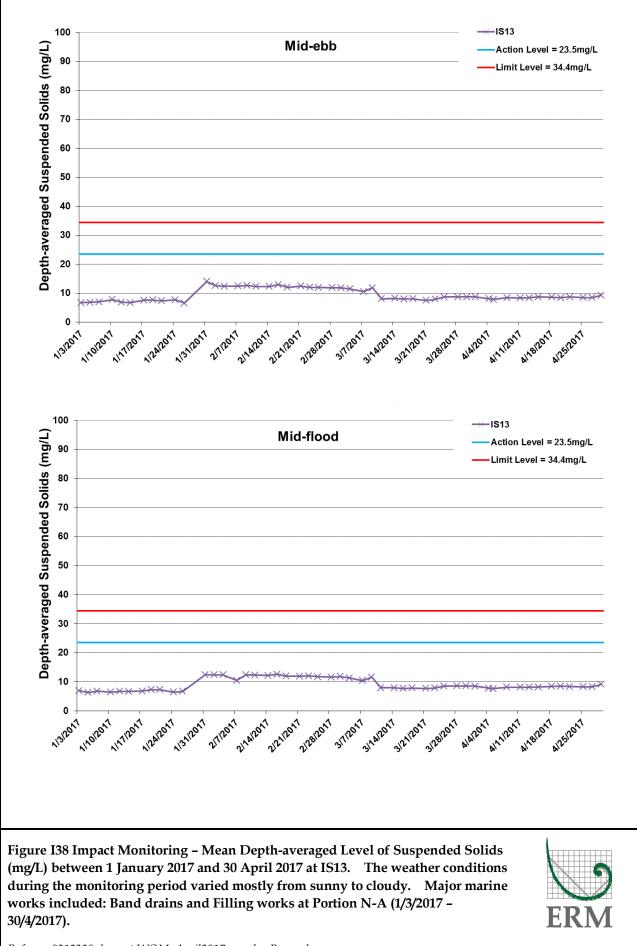


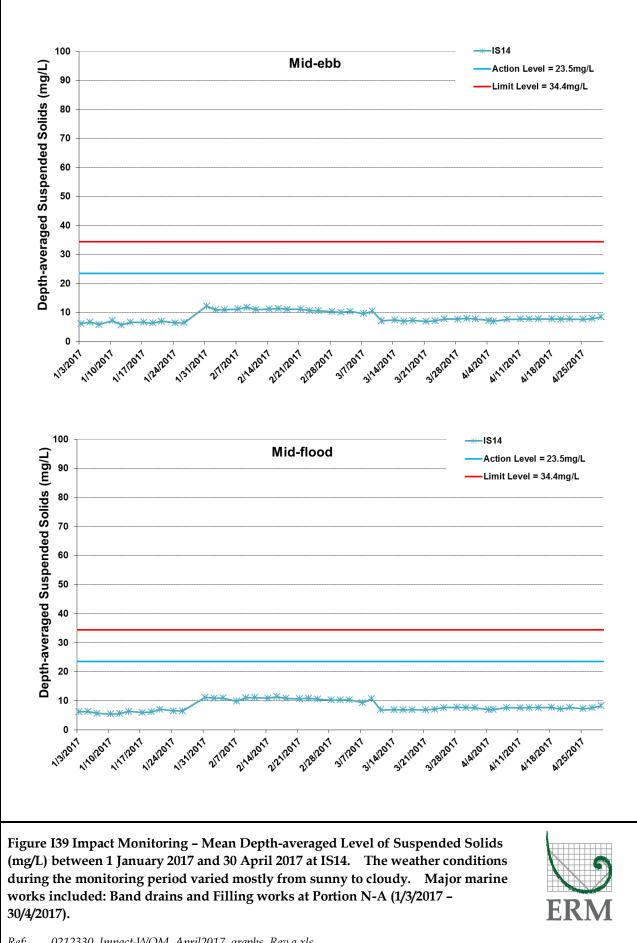




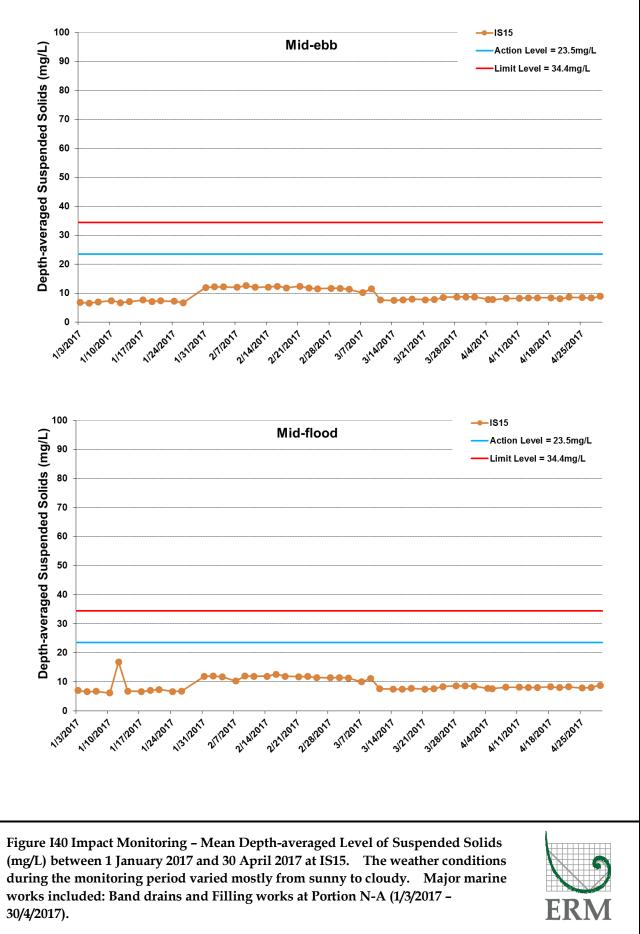


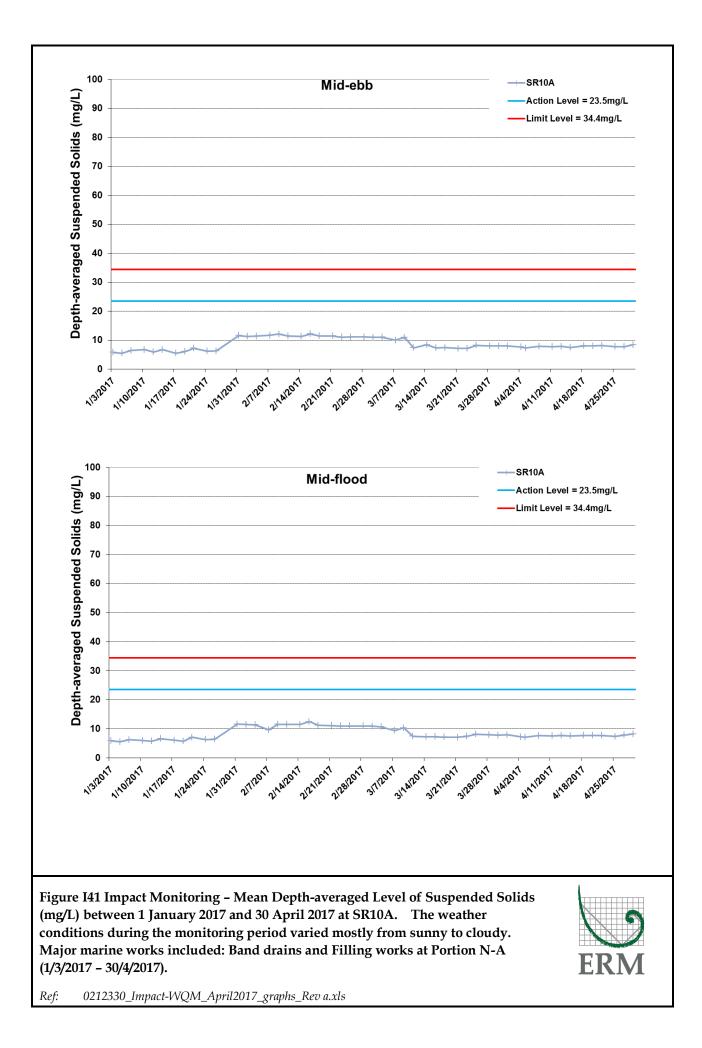


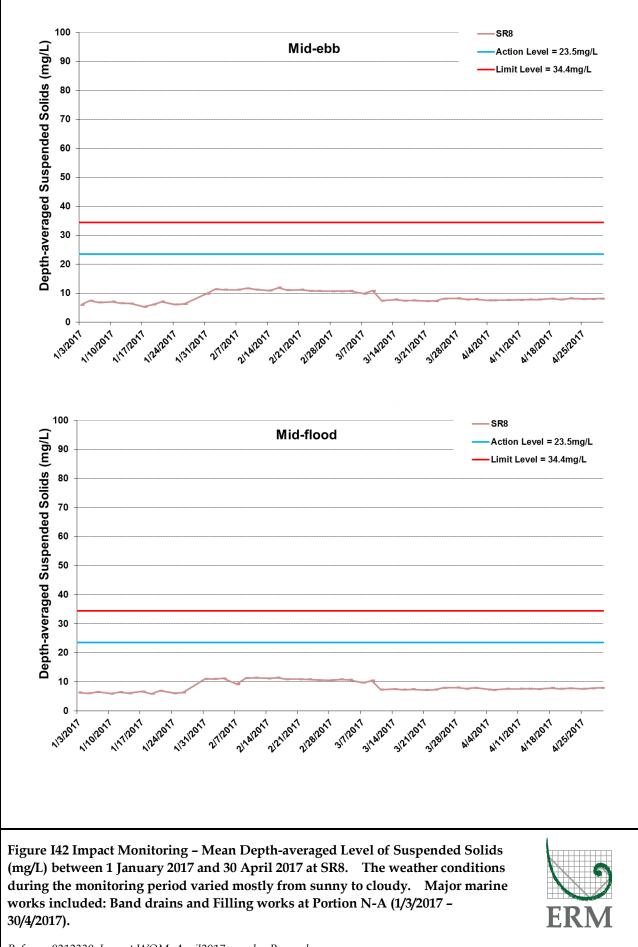


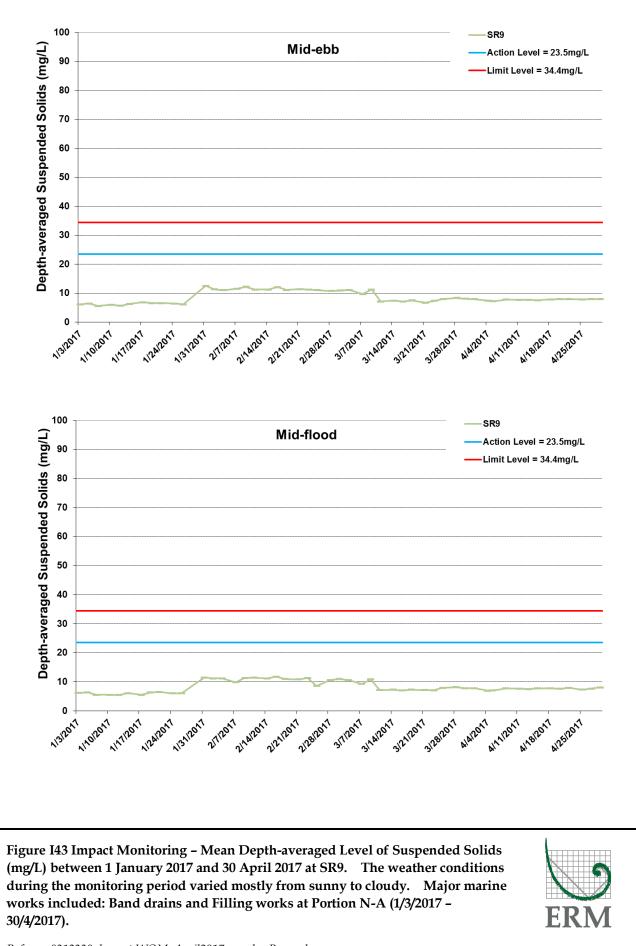


0212330_Impact-WQM_April2017_graphs_Rev a.xls Ref:









Ref: 0212330_Impact-WQM_April2017_graphs_Rev a.xls

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	2017-04-01	Mid-Flood	Cloudy	Small wave	CS4	Surface	1	1	1	10:33	18.7	7.68	28.1	7.38	6.12	8.8
TMCLKL	HY/2012/08	2017-04-01	Mid-Flood	Cloudy	Small wave	CS4	Surface	1	1	2	10:33	18.6	7.7	28.2	7.37	6.19	9.1
TMCLKL	HY/2012/08	2017-04-01	Mid-Flood	Cloudy	Small wave	CS4	Middle	8.9	2	1	10:33	18.9	7.72	28.3	7.29	6.04	8.5
TMCLKL	HY/2012/08	2017-04-01	Mid-Flood	Cloudy	Small wave	CS4	Middle	8.9	2	2	10:33	18.8	7.75	28.2	7.25	6.08	8.7
TMCLKL	HY/2012/08	2017-04-01	Mid-Flood	Cloudy	Small wave	CS4	Bottom	16.9	3	1	10:33	19	7.78	28.3	7.51	6.22	8.8
TMCLKL	HY/2012/08	2017-04-01	Mid-Flood	Cloudy	Small wave	CS4	Bottom	16.9	3	2	10:33	19.1	7.81	28.4	7.48	6.27	9.2
TMCLKL	HY/2012/08	2017-04-01	Mid-Flood	Cloudy	Small wave	CS6	Surface	1	1	1	09:01	18.7	7.81	28	7.15	6.21	9
TMCLKL	HY/2012/08	2017-04-01	Mid-Flood	Cloudy	Small wave	CS6	Surface	1	1	2	09:01	18.6	7.8	28.1	7.17	6.28	9.3
TMCLKL	HY/2012/08	2017-04-01	Mid-Flood	Cloudy	Small wave	CS6	Middle	6.9	2	1	09:01	18.8	7.72	28.2	7.32	6.02	8.8
TMCLKL	HY/2012/08	2017-04-01	Mid-Flood	Cloudy	Small wave	CS6	Middle	6.9	2	2	09:01	18.8	7.7	28.1	7.34	6.08	9
TMCLKL	HY/2012/08	2017-04-01	Mid-Flood	Cloudy	Small wave	CS6	Bottom	12.7	3	1	09:01	18.9	7.74		7.46	6.34	9.3
TMCLKL	HY/2012/08	2017-04-01	Mid-Flood	Cloudy	Small wave	CS6	Bottom	12.7	3	2	09:01	18.8	7.78		7.48	6.39	9.5
TMCLKL	HY/2012/08	2017-04-01	Mid-Flood	Cloudy	Small wave	IS12	Surface	1	1	1	10:09	18.8			7.31	6.03	8.2
TMCLKL	HY/2012/08	2017-04-01	Mid-Flood	Cloudy	Small wave	IS12	Surface	1	1	2	10:09	18.7			7.34	6.09	8
TMCLKL	HY/2012/08	2017-04-01	Mid-Flood	Cloudy	Small wave	IS12		5.6	2	1	10:09	18.9			7.42	6.31	8.6
TMCLKL	HY/2012/08	2017-04-01	Mid-Flood	Cloudy	Small wave	IS12	Middle	5.6	2	2	10:09	18.8	7.8		7.4	6.37	8.7
TMCLKL	HY/2012/08	2017-04-01	Mid-Flood	Cloudy	Small wave	IS12	Bottom	10.2	3	1	10:09	18.9	7.72		7.28	6.24	8.2
TMCLKL	HY/2012/08	2017-04-01	Mid-Flood	Cloudy	Small wave	IS12	Bottom	10.2	3	2	10:00	19	7.7		7.24	6.19	8.2
TMCLKL	HY/2012/08	2017-04-01	Mid-Flood	Cloudy	Small wave	IS13	Surface	1	1	1	09:58	18.8	7.75		7.23	5.96	8.3
TMCLKL	HY/2012/08	2017-04-01	Mid-Flood	Cloudy	Small wave	IS13	Surface	1	1	2	09:58	18.8	7.71		7.26	5.99	8.4
TMCLKL	HY/2012/08	2017-04-01	Mid-Flood	Cloudy	Small wave	IS13		5.6	2	1	09:58	18.9			7.33	6.17	8.5
TMCLKL	HY/2012/08			Cloudy		IS13 IS13			2	2	09.58		7.83		7.36		8.4
		2017-04-01	Mid-Flood		Small wave			5.6	2	2		18.8				6.13 6.25	
TMCLKL	HY/2012/08	2017-04-01	Mid-Flood	Cloudy	Small wave	IS13	Bottom	10.2	3	1	09:58	19	7.88		7.12	6.35	8.9
TMCLKL	HY/2012/08	2017-04-01	Mid-Flood	Cloudy	Small wave	IS13	Bottom	10.2	3	2	09:58	18.9	7.86		7.16	6.29	8.5
TMCLKL	HY/2012/08	2017-04-01	Mid-Flood	Cloudy	Small wave	IS14	Surface	1	1	1	10:21	18.7	7.69		7.27	6.15	7.4
TMCLKL	HY/2012/08	2017-04-01	Mid-Flood	Cloudy	Small wave	IS14	Surface	1	1	2	10:21	18.7			7.26	6.08	7.6
TMCLKL	HY/2012/08		Mid-Flood	Cloudy		IS14		5.9	2	1		18.6			7.35	6.11	7.5
TMCLKL	HY/2012/08	2017-04-01	Mid-Flood	Cloudy		IS14		5.9	2	2	10:21	18.5			7.36	6.18	7.6
TMCLKL	HY/2012/08	2017-04-01	Mid-Flood	Cloudy	Small wave	IS14		10.7	3	1		18.8			7.41	6.24	7.7
TMCLKL	HY/2012/08	2017-04-01	Mid-Flood	Cloudy	Small wave	IS14		10.7	3	2	10:21	18.8			7.44	6.28	7.8
TMCLKL	HY/2012/08	2017-04-01	Mid-Flood	Cloudy	Small wave	IS15	Surface	1	1	1	09:47	18.7			7.14	6.27	8.3
TMCLKL	HY/2012/08	2017-04-01	Mid-Flood	Cloudy	Small wave	IS15	Surface	1	1	2	09:47	18.8			7.18	6.21	8.5
TMCLKL	HY/2012/08	2017-04-01	Mid-Flood	Cloudy	Small wave	IS15		4.9	2	1	09:47	18.7			7.28	6.34	8.5
TMCLKL	HY/2012/08	2017-04-01	Mid-Flood	Cloudy	Small wave	IS15		4.9	2	2		18.6			7.29	6.41	8.8
TMCLKL	HY/2012/08	2017-04-01	Mid-Flood	Cloudy	Small wave	IS15	Bottom	8.8	3	1	09:47	18.9	7.84		7.36	6.25	8.2
TMCLKL	HY/2012/08	2017-04-01	Mid-Flood	Cloudy	Small wave	IS15	Bottom	8.8	3	2	09:47	18.8	7.86	28.3	7.39	6.18	8.6
TMCLKL	HY/2012/08	2017-04-01	Mid-Flood	Cloudy	Small wave	SR8	Surface	1	1	1	09:25	18.7	7.78	28	7.27	6.17	7.9
TMCLKL	HY/2012/08	2017-04-01	Mid-Flood	Cloudy	Small wave	SR8	Surface	1	1	2	09:25	18.6	7.79	28.1	7.29	6.21	8.3
TMCLKL	HY/2012/08	2017-04-01	Mid-Flood	Cloudy	Small wave	SR8	Middle		2	1	09:25						
TMCLKL	HY/2012/08	2017-04-01	Mid-Flood	Cloudy	Small wave	SR8	Middle		2	2	09:25						
TMCLKL	HY/2012/08	2017-04-01	Mid-Flood	Cloudy	Small wave	SR8	Bottom	4.4	3	1	09:25	18.7	7.83	28.2	7.37	6.05	7.7
TMCLKL	HY/2012/08	2017-04-01	Mid-Flood	Cloudy	Small wave	SR8		4.4	3	2	09:25	18.7			7.36	6.02	7.7
TMCLKL	HY/2012/08	2017-04-01	Mid-Flood	Cloudy	Small wave	SR9	Surface	1	1	1	09:36	18.7			7.21	6.05	7.6
TMCLKL	HY/2012/08	2017-04-01	Mid-Flood	Cloudy	Small wave	SR9	Surface	1	1	2	09:36	18.7			7.74	6.11	7.7
TMCLKL	HY/2012/08	2017-04-01	Mid-Flood	Cloudy		SR9	Middle	1	2	1	09:36	1		l			7.8
TMCLKL	HY/2012/08	2017-04-01	Mid-Flood	Cloudy	Small wave	SR9	Middle		2	2	09:36	1	t	İ	İ	1	7.9
TMCLKL	HY/2012/08	2017-04-01	Mid-Flood	Cloudy	Small wave	SR9		3.7	3	1	09:36	18.8	7.72	28.1	7.31	6.22	8
TMCLKL	HY/2012/08	2017-04-01	Mid-Flood	Cloudy	Small wave	SR9		3.7	3	2	09:36	18.7	7.75		7.33	6.14	7.7
TMCLKL	HY/2012/08	2017-04-01	Mid-Flood	Cloudy	Small wave	SR10A	Surface	1	1	1	09:13	18.7			7.23	6.02	8
TMCLKL	HY/2012/08	2017-04-01	Mid-Flood	Cloudy	Small wave	SR10A	Surface	1	1	2	09:13	18.7			7.26	6.09	7.7
TMCLKL	HY/2012/08	2017-04-01	Mid-Flood	Cloudy	Small wave		Middle	7	2	1		18.8			7.18	6.17	7.9
TMCLKL	HY/2012/08	2017-04-01	Mid-Flood	Cloudy	Small wave		Middle	7	2	2	09:13	18.7			7.16	6.11	7.9
TMCLKL	HY/2012/08	2017-04-01	Mid-Flood	Cloudy	Small wave		Bottom	7 13	2	1	09:13	18.9			7.35	6.24	7.9
	HY/2012/08			· · · · ·					3	2		18.8			7.33	6.2	7.9 8.2
		2017-04-01	Mid-Flood	Cloudy	Small wave		Bottom	13	J 1	4	09:13					6.07	8.2 8.7
	HY/2012/08	2017-04-01	Mid-Ebb	Cloudy			Surface	1	1			18.8	7.62		7.19		
TWICLKL	HY/2012/08	2017-04-01	1012-200	Cloudy	Small wave	US4	Surface	1	1	2	14:18	18.9	7.58	28.1	7.23	6.05	8.6

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	2017-04-01	Mid-Ebb	Cloudy	Small wave	CS4	Middle	8.8	2	1	14:18	18.9	7.94	27.8	7.26	6.21	9.1
TMCLKL	HY/2012/08	2017-04-01	Mid-Ebb	Cloudy	Small wave	CS4	Middle	8.8	2	2	14:18	19	7.99	28	7.29	6.27	9.2
TMCLKL	HY/2012/08	2017-04-01	Mid-Ebb	Cloudy	Small wave	CS4	Bottom	16.5	3	1	14:18	19.1	7.82	28.2	7.34	6.28	9.3
TMCLKL	HY/2012/08	2017-04-01	Mid-Ebb	Cloudy	Small wave	CS4	Bottom	16.5	3	2	14:18	19.2	7.88	28.2	7.38	6.31	9
TMCLKL	HY/2012/08	2017-04-01	Mid-Ebb	Cloudy	Small wave	CS6	Surface	1	1	1	15:36	18.8	7.86	28	7.16	6.12	8.7
TMCLKL	HY/2012/08	2017-04-01	Mid-Ebb	Cloudy	Small wave	CS6	Surface	1	1	2	15:36	18.9	7.88	28.1	7.19	6.17	8.9
TMCLKL	HY/2012/08	2017-04-01	Mid-Ebb	Cloudy	Small wave	CS6	Middle	6.7	2	1	15:36	18.9	7.76	28	7.26	6.09	8.8
TMCLKL	HY/2012/08	2017-04-01	Mid-Ebb	Cloudy	Small wave	CS6	Middle	6.7	2	2	15:36	19	7.79	27.9	7.24	6.12	8.7
TMCLKL	HY/2012/08	2017-04-01	Mid-Ebb	Cloudy	Small wave	CS6	Bottom	12.4	3	1	15:36	19.1	7.71	28.1	7.33	6.27	9.3
TMCLKL	HY/2012/08	2017-04-01	Mid-Ebb	Cloudy	Small wave	CS6	Bottom	12.4	3	2	15:36	19.2	7.74		7.37	6.3	9.4
TMCLKL	HY/2012/08	2017-04-01	Mid-Ebb	Cloudy	Small wave	IS12	Surface	1	1	1	14:52	18.7	7.62	27.9	7.12	6.18	8.3
TMCLKL	HY/2012/08	2017-04-01	Mid-Ebb	Cloudy	Small wave	IS12	Surface	1	1	2	14:52	18.7	7.66	28	7.18	6.21	8.4
TMCLKL	HY/2012/08	2017-04-01	Mid-Ebb	Cloudy	Small wave	IS12	Middle	5.4	2	1	14:52	18.7	7.55		7.32	6.46	8.6
TMCLKL	HY/2012/08	2017-04-01	Mid-Ebb	Cloudy	Small wave	IS12	Middle	5.4	2	2	14:52	18.8			7.37	6.49	9
TMCLKL	HY/2012/08	2017-04-01	Mid-Ebb	Cloudy	Small wave	IS12		9.8	3	1	14:52	18.9	7.61		7.03	6.33	8.5
TMCLKL	HY/2012/08	2017-04-01	Mid-Ebb	Cloudy	Small wave	IS12		9.8	3	2	14:52	19	7.67		7.09	6.38	8.7
TMCLKL	HY/2012/08	2017-04-01	Mid-Ebb	Cloudy	Small wave	IS13	Surface	1	1	1	15:09	18.7			7.1	6.08	8.6
TMCLKL	HY/2012/08	2017-04-01	Mid-Ebb	Cloudy	Small wave	IS13	Surface	1	1	2	15:09	18.8	7.81		7.16	6.04	8.3
TMCLKL	HY/2012/08	2017-04-01	Mid-Ebb	Cloudy	Small wave	IS13	Middle	5.4	2	1	15:09	18.8	7.62		7.14	6.27	8.9
TMCLKL	HY/2012/08	2017-04-01	Mid-Ebb	Cloudy	Small wave	IS13	Middle	5.4	2	2	15:09	18.8	7.64		7.2	6.29	8.8
TMCLKL	HY/2012/08	2017-04-01	Mid-Ebb	Cloudy	Small wave	IS13		9.7	2	1	15:09	18.9	7.81		7.03	6.44	8.7
TMCLKL	HY/2012/08	2017-04-01	Mid-Ebb	Cloudy	Small wave	IS13		9.7	3	2	15:09	18.8	7.89		7.08	6.47	8.9
TMCLKL	HY/2012/08	2017-04-01	Mid-Ebb	Cloudy	Small wave	IS13	Surface	1	1	1	14:35	18.7	7.84		7.04	6.17	7.5
TMCLKL	HY/2012/08	2017-04-01	Mid-Ebb	Cloudy	Small wave	IS14 IS14	Surface	1	1	2	14:35	18.8	7.87		7.04	6.2	7.5
TMCLKL	HY/2012/08	2017-04-01	Mid-Ebb	Cloudy		IS14 IS14	Middle	5.6	2	2	14:35	18.8	7.65	20 28.1	7.16	6.28	7.9
					Small wave				2	1							
	HY/2012/08	2017-04-01	Mid-Ebb	Cloudy	Small wave	IS14	Middle	5.6	2	4	14:35	18.9			7.11	6.24	7.6
	HY/2012/08		Mid-Ebb	Cloudy				10.2	3		1	19			7.23	6.35	8
	HY/2012/08	2017-04-01	Mid-Ebb	Cloudy		IS14		10.2	3	2	14:35	19.1		28.2	7.25	6.4	8.2
	HY/2012/08	2017-04-01	Mid-Ebb	Cloudy	Small wave	IS15	Surface	1	1	1	15:29	18.8			7.05	6.38	8.7
TMCLKL	HY/2012/08	2017-04-01	Mid-Ebb	Cloudy	Small wave	IS15	Surface	1	1	2	15:29	18.7			7.1	6.43	8.5
TMCLKL	HY/2012/08	2017-04-01	Mid-Ebb	Cloudy	Small wave	IS15		4.7	2	1	15:29	18.8			7.14	6.56	9
TMCLKL	HY/2012/08	2017-04-01	Mid-Ebb	Cloudy	Small wave	IS15		4.7	2	2	15:29	18.9			7.19	6.59	9
TMCLKL	HY/2012/08	2017-04-01	Mid-Ebb	Cloudy	Small wave	IS15		8.4	3	1	15:29	19		28	7.27	6.27	8.7
TMCLKL	HY/2012/08	2017-04-01	Mid-Ebb	Cloudy	Small wave	IS15		8.4	3	2	15:29	19			7.23	6.3	8.5
TMCLKL	HY/2012/08	2017-04-01	Mid-Ebb	Cloudy	Small wave	SR8	Surface	1	1	1	16:03	18.8			7.01	6.11	7.9
TMCLKL	HY/2012/08	2017-04-01	Mid-Ebb	Cloudy	Small wave	SR8	Surface	1	1	2	16:03	18.7	7.63	27.9	7.05	6.14	7.9
TMCLKL	HY/2012/08	2017-04-01	Mid-Ebb	Cloudy	Small wave	SR8	Middle		2	1	16:03						
TMCLKL	HY/2012/08	2017-04-01	Mid-Ebb	Cloudy	Small wave	SR8	Middle		2	2	16:03						
TMCLKL	HY/2012/08	2017-04-01	Mid-Ebb	Cloudy		SR8		4.1	3	1		18.8			7.13	6.18	8
TMCLKL	HY/2012/08	2017-04-01	Mid-Ebb	Cloudy	Small wave	SR8		4.1	3	2	16:03	18.9			7.19	6.16	8.1
TMCLKL	HY/2012/08	2017-04-01	Mid-Ebb	Cloudy	Small wave	SR9	Surface	1	1	1	15:48	18.7			7.15	6.16	7.9
TMCLKL	HY/2012/08	2017-04-01	Mid-Ebb	Cloudy	Small wave	SR9	Surface	1	1	2	15:48	18.8	7.68	27.9	7.16	6.2	8.1
TMCLKL	HY/2012/08	2017-04-01	Mid-Ebb	Cloudy	Small wave	SR9	Middle		2	1	15:48						
TMCLKL	HY/2012/08	2017-04-01	Mid-Ebb	Cloudy	Small wave	SR9	Middle		2	2	15:48						
TMCLKL	HY/2012/08	2017-04-01	Mid-Ebb	Cloudy	Small wave	SR9	Bottom	3.5	3	1	15:48	18.9	7.95	28.1	7.04	6.25	7.9
TMCLKL	HY/2012/08	2017-04-01	Mid-Ebb	Cloudy	Small wave	SR9	Bottom	3.5	3	2	15:48	19	7.98	28.2	7.08	6.22	7.8
TMCLKL	HY/2012/08	2017-04-01	Mid-Ebb	Cloudy	Small wave	SR10A	Surface	1	1	1	16:20	18.7	7.67	27.8	7.14	6.19	7.8
TMCLKL	HY/2012/08	2017-04-01	Mid-Ebb	Cloudy	Small wave	SR10A	Surface	1	1	2	16:20	18.8	7.7	27.9	7.18	6.22	7.9
TMCLKL	HY/2012/08	2017-04-01	Mid-Ebb	Cloudy	Small wave	SR10A	Middle	6.8	2	1	16:20	18.8	7.83	28	7.23	6.08	8.1
TMCLKL	HY/2012/08	2017-04-01	Mid-Ebb	Cloudy	Small wave	SR10A		6.8	2	2	16:20	18.9		28	7.27	6.12	7.8
TMCLKL	HY/2012/08	2017-04-01	Mid-Ebb	Cloudy	Small wave		Bottom	12.6	3	1	16:20	18.8			7.07	6.36	8.2
TMCLKL	HY/2012/08	2017-04-01	Mid-Ebb	Cloudy	Small wave	SR10A	Bottom	12.6	3	2	16:20	18.8			7.04	6.4	8.4
TMCLKL	HY/2012/08	2017-04-04	Mid-Flood	Fine	Small wave	CS4	Surface	1	1	1	13:16	18.9			7.62	5.84	8.5
TMCLKL	HY/2012/08	2017-04-04	Mid-Flood	Fine	Small wave	CS4	Surface	1	1	2	13:16	19.9			7.6	5.87	8.5
	HY/2012/08		Mid-Flood	Fine				9	2	1		19	7.84		7.7	5.94	8.7
TMCLKL				· · · · · ·				- ~		• *			1 · · · · · ·				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	2017-04-04	Mid-Flood	Fine	Small wave	CS4	Bottom	16.9	3	1	13:16	19.1	8.07	28.2	7.88	6.04	8.8
TMCLKL	HY/2012/08	2017-04-04	Mid-Flood	Fine	Small wave	CS4	Bottom	16.9	3	2	13:16	19.2	8.05	28.3	7.86	6.07	8.9
TMCLKL	HY/2012/08	2017-04-04	Mid-Flood	Fine	Small wave	CS6	Surface	1	1	1	11:01	18.7	8.04	27.9	7.45	5.74	8.6
TMCLKL	HY/2012/08	2017-04-04	Mid-Flood	Fine	Small wave	CS6	Surface	1	1	2	11:01	18.8	8.07	27.9	7.47	5.72	8.3
TMCLKL	HY/2012/08	2017-04-04	Mid-Flood	Fine	Small wave	CS6	Middle	6.9	2	1	11:01	18.9	7.92	28	7.59	5.84	8.4
TMCLKL	HY/2012/08	2017-04-04	Mid-Flood	Fine	Small wave	CS6	Middle	6.9	2	2	11:01	18.9	7.95	28.1	7.61	5.87	8.7
TMCLKL	HY/2012/08	2017-04-04	Mid-Flood	Fine	Small wave	CS6	Bottom	12.7	3	1	11:01	19	8.11	28.2	7.73	5.94	8.5
TMCLKL	HY/2012/08	2017-04-04	Mid-Flood	Fine	Small wave	CS6	Bottom	12.7	3	2	11:01	19.1	8.13	28.2	7.71	5.97	8.5
TMCLKL	HY/2012/08	2017-04-04	Mid-Flood	Fine	Small wave	IS12	Surface	1	1	1	12:50	18.8	7.89	28	7.59	5.6	7.3
TMCLKL	HY/2012/08	2017-04-04	Mid-Flood	Fine	Small wave	IS12	Surface	1	1	2	12:50	18.9	7.9	28	7.62	5.63	7.5
TMCLKL	HY/2012/08	2017-04-04	Mid-Flood	Fine	Small wave	IS12	Middle	6.1	2	1	12:50	19	8.04	28.1	7.78	5.77	7.7
TMCLKL	HY/2012/08	2017-04-04	Mid-Flood	Fine	Small wave	IS12	Middle	6.1	2	2	12:50	19.1	8.07	28.2	7.8	5.79	7.9
TMCLKL	HY/2012/08	2017-04-04	Mid-Flood	Fine	Small wave	IS12	Bottom	11.1	3	1	12:50	19.2	7.92	28.3	7.88	5.94	8
TMCLKL	HY/2012/08	2017-04-04	Mid-Flood	Fine	Small wave	IS12	Bottom	11.1	3	2	12:50	19.2	7.94	28.4	7.85	5.97	7.9
TMCLKL	HY/2012/08	2017-04-04	Mid-Flood	Fine	Small wave	IS13	Surface	1	1	1	12:33	18.8	8.06	27.9	7.3	5.39	7.4
TMCLKL	HY/2012/08	2017-04-04	Mid-Flood	Fine	Small wave	IS13	Surface	1	1	2	12:33	18.9	-		7.33	5.42	7.6
TMCLKL	HY/2012/08	2017-04-04	Mid-Flood	Fine	Small wave	IS13		5.9	2	1	12:33	19	7.94		7.45	5.6	7.9
TMCLKL	HY/2012/08	2017-04-04	Mid-Flood	Fine	Small wave	IS13	Middle	5.9	2	2	12:33	19	7.97		7.47	5.63	7.9
TMCLKL	HY/2012/08	2017-04-04	Mid-Flood	Fine	Small wave	IS13	Bottom	10.7	3	1	12:33	19.1	8		7.6	5.77	7.8
TMCLKL	HY/2012/08	2017-04-04	Mid-Flood	Fine	Small wave	IS13	Bottom	10.7	3	2	12:33	19.2	8.03		7.63	5.75	8.2
TMCLKL	HY/2012/08	2017-04-04	Mid-Flood	Fine	Small wave	IS14	Surface	1	1	1	13:04	18.7	8.04	27.8	7.44	5.45	6.6
TMCLKL	HY/2012/08	2017-04-04	Mid-Flood	Fine	Small wave	IS14	Surface	1	1	2	13:04	18.8	-		7.42	5.47	6.8
TMCLKL	HY/2012/08	2017-04-04	Mid-Flood	Fine	Small wave	IS14		5.8	2	1	13:04	18.9			7.59	5.56	7
TMCLKL	HY/2012/08	2017-04-04	Mid-Flood	Fine	Small wave	IS14	Middle	5.8	2	2	13:04	19	-		7.61	5.59	6.9
TMCLKL	HY/2012/08	2017-04-04	Mid-Flood	Fine	Small wave	IS14	Bottom	10.5	3	1	13:04	19.1	7.96		7.7	5.77	7
TMCLKL	HY/2012/08	2017-04-04	Mid-Flood	Fine	Small wave	IS14	Bottom	10.5	3	2	13:04	19.2			7.73	5.79	7.2
	HY/2012/08		Mid-Flood	Fine		IS15	Surface		1	1	12:12				7.56	5.64	7.5
TMCLKL	HY/2012/08	2017-04-04	Mid-Flood	Fine		IS15	Surface	1	1	2		19			7.53	5.67	7.5
TMCLKL	HY/2012/08	2017-04-04	Mid-Flood	Fine		IS15	Middle	5	2	1		19.1			7.64	5.74	7.8
TMCLKL	HY/2012/08	2017-04-04	Mid-Flood	Fine		IS15	Middle	5	2	2		19.2			7.66	5.77	7.9
TMCLKL	HY/2012/08	2017-04-04	Mid-Flood	Fine	Small wave	IS15		8.9	3	1	12:12	19.2			7.73	5.8	7.7
TMCLKL	HY/2012/08	2017-04-04	Mid-Flood	Fine	Small wave	IS15		8.9	3	2		19.2	8.13		7.75	5.82	7.8
TMCLKL	HY/2012/08	2017-04-04	Mid-Flood	Fine		SR8	Surface	1	1	1		18.8			7.63	5.6	7.2
TMCLKL	HY/2012/08	2017-04-04	Mid-Flood	Fine		SR8	Surface	1	1	2		18.9	7.79		7.61	5.63	7.3
TMCLKL	HY/2012/08	2017-04-04	Mid-Flood	Fine		SR8	Middle	-	2	1	11:46						
TMCLKL	HY/2012/08	2017-04-04	Mid-Flood	Fine		SR8	Middle		2	2	11:46						
TMCLKL	HY/2012/08	2017-04-04	Mid-Flood	Fine		SR8		4.5	3	1		19	8.04	28.1	7.75	5.8	7.3
TMCLKL	HY/2012/08	2017-04-04	Mid-Flood	Fine		SR8		4.5	3	2	11:46	19.1			7.77	5.82	7.7
TMCLKL	HY/2012/08	2017-04-04	Mid-Flood	Fine		SR9	Surface	1	1	1		18.9			7.39	5.44	6.7
TMCLKL	HY/2012/08	2017-04-04	Mid-Flood	Fine		SR9	Surface	1	1	2	12:00	19			7.41	5.47	7.1
TMCLKL	HY/2012/08	2017-04-04	Mid-Flood	Fine		SR9	Middle		2	1	12:00	10	0.01	20	7.11	0.17	
TMCLKL	HY/2012/08	2017-04-04	Mid-Flood	Fine		SR9	Middle		2	2	12:00						+
TMCLKL	HY/2012/08	2017-04-04	Mid-Flood	Fine	Small wave	SR9		3.5	3	1		19.1	8.11	28.1	7.55	5.6	7
TMCLKL	HY/2012/08	2017-04-04	Mid-Flood	Fine		SR9		3.5	3	2	12:00	19.2			7.57	5.63	7.1
TMCLKL	HY/2012/08	2017-04-04	Mid-Flood	Fine			Surface	1	1	1		18.9	7.89		7.5	5.43	7
	HY/2012/08	2017-04-04	Mid-Flood	Fine	Small wave		Surface	1	1	2		18.9			7.48	5.45	6.9
	HY/2012/08	2017-04-04	Mid-Flood	Fine	Small wave		Middle	7	2	1		19			7.63	5.63	7.1
TMCLKL	HY/2012/08	2017-04-04	Mid-Flood	Fine	Small wave	SR10A	Middle	' 7	2	2	11:24	19.1			7.61	5.65	7.1
	HY/2012/08	2017-04-04	Mid-Flood	Fine	Small wave		Bottom	7 12.9	2	1		19.1			7.01	5.7	7.5
	HY/2012/08	2017-04-04	Mid-Flood	Fine	Small wave			12.9	3	2		19.2			7.79	5.73	7.5
	HY/2012/08	2017-04-04	Mid-Ebb	Fine		CS4	Surface	12.3	1	1		19.2			7.48	6.05	8.9
	HY/2012/08 HY/2012/08	2017-04-04 2017-04-04	Mid-Ebb	Fine		CS4 CS4	Surface	1	1	2	17:38	19.3			7.48 7.5	5.98	8.9 8.5
		2017-04-04	Mid-Ebb	Fine		CS4 CS4		8.8	2	<u>د</u> 1	17:38				7.53 7.53	6.07	8.5 9
	HY/2012/08				Small wave			8.8 o o	2	1		19.4			7.53 7.55		9
	HY/2012/08	2017-04-04	Mid-Ebb	Fine		CS4		8.8 16.6	2	4	17:38	19.4				6.16	-
			Mid-Ebb	Fine				16.6	ა ი			19.4	7.77		7.67	6.34	9.2
TWUCLKL	HY/2012/08	2017-04-04	ממש-בטוועו	Fine	Small wave	654	Bottom	10.0	3	2	17:38	19.5	7.79	2४.১	7.69	6.27	9.2

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	2017-04-04	Mid-Ebb	Fine	Small wave	CS6	Surface	1	1	1	19:50	19.4	7.82	28.1	7.44	5.7	8.4
TMCLKL	HY/2012/08	2017-04-04	Mid-Ebb	Fine	Small wave	CS6	Surface	1	1	2	19:50	19.4	7.8	28.1	7.47	5.78	8.5
TMCLKL	HY/2012/08	2017-04-04	Mid-Ebb	Fine	Small wave	CS6	Middle	6.7	2	1	19:50	19.4	7.69	28.1	7.53	5.9	8.4
TMCLKL	HY/2012/08	2017-04-04	Mid-Ebb	Fine	Small wave	CS6	Middle	6.7	2	2	19:50	19.3	7.73	28.2	7.55	5.97	8.8
TMCLKL	HY/2012/08	2017-04-04	Mid-Ebb	Fine	Small wave	CS6	Bottom	12.4	3	1	19:50	19.5	7.76	28.3	7.67	6.24	9
TMCLKL	HY/2012/08	2017-04-04	Mid-Ebb	Fine	Small wave	CS6	Bottom	12.4	3	2	19:50	19.6	7.81		7.63	6.16	9.2
TMCLKL	HY/2012/08	2017-04-04	Mid-Ebb	Fine	Small wave	IS12	Surface	1	1	1	18:10	19.4	7.76	28	7.49	5.69	7.6
TMCLKL	HY/2012/08	2017-04-04	Mid-Ebb	Fine	Small wave	IS12	Surface	1	1	2	18:10	19.4	7.81	28	7.42	5.74	7.6
TMCLKL	HY/2012/08	2017-04-04	Mid-Ebb	Fine	Small wave	IS12	Middle	5.9	2	1	18:10	19.4	7.73	28	7.57	5.83	8.1
TMCLKL	HY/2012/08	2017-04-04	Mid-Ebb	Fine	Small wave	IS12		5.9	2	2	18:10	19.4	7.7	28	7.54	5.88	8.1
TMCLKL	HY/2012/08	2017-04-04	Mid-Ebb	Fine		IS12		10.8	3	1	18:10	19.4	7.78		7.86	6.09	8.1
TMCLKL	HY/2012/08	2017-04-04	Mid-Ebb	Fine		IS12		10.8	3	2	18:10	19.5			7.89	6.19	8.4
TMCLKL	HY/2012/08	2017-04-04	Mid-Ebb	Fine		IS13	Surface	1	1	1	18:27	19.3	7.98		7.18	5.67	7.7
TMCLKL	HY/2012/08	2017-04-04	Mid-Ebb	Fine	Small wave	IS13	Surface	1	1	2	18:27	19.3			7.23	5.74	8.1
TMCLKL	HY/2012/08	2017-04-04	Mid-Ebb	Fine		IS13	-	5.7	2	1	18:27	19.3			7.28	5.9	8.1
TMCLKL	HY/2012/08	2017-04-04	Mid-Ebb	Fine		IS13		5.7	2	2	18:27	19.4			7.31	5.85	8
TMCLKL	HY/2012/08	2017-04-04	Mid-Ebb	Fine		IS13		10.4	3	1	18:27	19.4	7.98		7.5	5.93	8.4
TMCLKL	HY/2012/08	2017-04-04	Mid-Ebb	Fine		IS13		10.4	3	2	18:27	19.4	8.01		7.55	6	8.1
TMCLKL	HY/2012/08	2017-04-04	Mid-Ebb	Fine	Small wave	IS14	Surface	1	1	1	17:54	19.3			7.39	5.84	7.2
TMCLKL	HY/2012/08	2017-04-04	Mid-Ebb	Fine	Small wave	IS14	Surface	1	1	2	17:54	19.3	7.8		7.42	5.89	7.2
TMCLKL	HY/2012/08	2017-04-04	Mid-Ebb	Fine		IS14		5.6	2	1	17:54	19.3	7.87		7.48	5.91	7.3
TMCLKL	HY/2012/08	2017-04-04	Mid-Ebb	Fine		IS14		5.6	2	2	17:54	19.4	7.84		7.51	5.99	7.4
TMCLKL	HY/2012/08	2017-04-04	Mid-Ebb	Fine		IS14		10.2	3	1	17:54	19.4	7.88		7.53	6.04	7.5
TMCLKL	HY/2012/08	2017-04-04	Mid-Ebb	Fine	Small wave	IS14	-	10.2	3	2	17:54	19.4	7.85		7.56	6.13	7.4
TMCLKL	HY/2012/08	2017-04-04	Mid-Ebb	Fine	Small wave	IS15	Surface	10.2	1	1	18:43	19.3	7.84	28	7.25	5.83	7.7
TMCLKL	HY/2012/08	2017-04-04	Mid-Ebb	Fine	Small wave	IS15	Surface	1	1	2	18:43	19.4	7.89	28	7.28	5.91	7.9
			Mid-Ebb	Fine				4.8	2	1		19.4	7.83		7.39	5.99	7.9
TMCLKL	HY/2012/08	2017-04-04	Mid-Ebb	Fine		IS15		4.8	2	2	18:43	19.4			7.42	6.04	8.3
TMCLKL	HY/2012/08	2017-04-04	Mid-Ebb	Fine		IS15		4.0 8.5	2	1	18:43	19.4			7.58	5.73	7.9
TMCLKL	HY/2012/08	2017-04-04	Mid-Ebb	Fine		IS15		8.5	3	2	18:43	19.5			7.61	5.68	7.6
TMCLKL	HY/2012/08	2017-04-04	Mid-Ebb	Fine		SR8	Surface	1	1	1	19:12	19.3			7.43	5.8	7.7
TMCLKL	HY/2012/08	2017-04-04	Mid-Ebb	Fine		SR8	Surface	1	1	2	19:12	19.4			7.46	5.74	7.2
TMCLKL	HY/2012/08	2017-04-04	Mid-Ebb	Fine		SR8	Middle		2	1	19:12	13.4	7.01	20.1	7.40	5.74	1.2
TMCLKL			Mid-Ebb	Fine		SR8	Middle		2	1	19:12						+
TMCLKL	HY/2012/08	2017-04-04	Mid-Ebb	Fine		SR8		4.2	2	4		19.4	7.8	28.1	7.52	5.93	7.7
	HY/2012/08		Mid-Ebb	Fine				4.2 4.2	ა ი	1	19.12 19:12				7.52 7.54	5.88	
TMCLKL TMCLKL	HY/2012/08	2017-04-04 2017-04-04	Mid-Ebb	Fine		SR8 SR9	Bottom Surface	4.Z	ა 1	۲ ۲	19.12	19.4 19.4	7.96		7.54 7.18	5.72	7.4 7.4
	HY/2012/08	2017-04-04				SR9 SR9		1	1	1					7.10	5.66	7.4
			Mid-Ebb	Fine Fine			Surface Middle		2	۲ ۲	18:58	19.4	7.98	20	1.21	5.00	1.2
	HY/2012/08	2017-04-04	Mid-Ebb			SR9			2	1	18:58						+
		2017-04-04	Mid-Ebb	Fine		SR9	Middle	2.2	2	4	18:58	10.4	0.02	20.4	7.06	E 0	7 5
	HY/2012/08	2017-04-04	Mid-Ebb	Fine		SR9		3.2	ა ი	2	18:58	19.4			7.36	5.8	7.5
	HY/2012/08	2017-04-04	Mid-Ebb	Fine		SR9	-	3.2	3 1	2	18:58	19.5			7.3	5.88	7.7
	HY/2012/08	2017-04-04	Mid-Ebb	Fine	Small wave	SR10A	Surface	1	1		19:28	19.4			7.38	5.66	7.3
	HY/2012/08	2017-04-04	Mid-Ebb	Fine			Surface			2	19:28	19.5			7.42	5.73	7.6
	HY/2012/08	2017-04-04	Mid-Ebb	Fine				6.8	2		19:28	19.5			7.48	5.86	7.7
	HY/2012/08	2017-04-04	Mid-Ebb	Fine				6.8	2	2	19:28	19.5			7.51	5.91	7.6
	HY/2012/08	2017-04-04	Mid-Ebb	Fine	Small wave	SR10A		12.6	<u>ა</u>	1	19:28	19.5			7.63	6.08	7.8
	HY/2012/08	2017-04-04	Mid-Ebb	Fine	Small wave			12.6	<u>১</u>	2	19:28	19.6			7.6	6.01	7.9
	HY/2012/08	2017-04-05	Mid-Flood	Cloudy		CS4	Surface	1	1	1	15:48	19.6			7.82	5.66	8.1
TMCLKL		2017-04-05	Mid-Flood	Cloudy		CS4	Surface	1	1	2	15:48	19.7			7.86	5.69	8.4
	HY/2012/08	2017-04-05	Mid-Flood	Cloudy		CS4		9	2	1		19.8			7.83	5.73	8.4
TMCLKL	HY/2012/08	2017-04-05	Mid-Flood	Cloudy		CS4		9	2	2	15:48	19.9			7.87	5.75	8.4
TMCLKL	HY/2012/08	2017-04-05	Mid-Flood	Cloudy		CS4	-	16.9	3	1	15:48	19.9			7.99	5.81	8.6
TMCLKL	HY/2012/08	2017-04-05	Mid-Flood	Cloudy		CS4		16.9	3	2	15:48	19.8			8.06	5.88	8.4
			Mid-Flood	Cloudy			Surface	1	1	1		19.7	7.91		7.46	5.66	8
TMCLKL	HY/2012/08	2017-04-05	Mid-Flood	Cloudy	Small wave	CS6	Surface	1	1	2	13:30	19.8	7.97	28.2	7.48	5.64	8.3

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	2017-04-05	Mid-Flood	Cloudy	Small wave	CS6	Middle	6.9	2	1	13:30	19.8	7.88	28.2	7.62	5.78	8.2
TMCLKL	HY/2012/08	2017-04-05	Mid-Flood	Cloudy	Small wave	CS6	Middle	6.9	2	2	13:30	19.9	7.85	28.3	7.66	5.75	8.5
TMCLKL	HY/2012/08	2017-04-05	Mid-Flood	Cloudy	Small wave	CS6	Bottom	12.8	3	1	13:30	19.9	7.96	28.4	7.81	5.89	8.8
TMCLKL	HY/2012/08	2017-04-05	Mid-Flood	Cloudy	Small wave	CS6	Bottom	12.8	3	2	13:30	19.9	7.99	28.5	7.83	5.92	8.5
TMCLKL	HY/2012/08	2017-04-05	Mid-Flood	Cloudy	Small wave	IS12	Surface	1	1	1	15:15	19.6	7.8	28	7.76	5.44	7.1
TMCLKL	HY/2012/08	2017-04-05	Mid-Flood	Cloudy	Small wave	IS12	Surface	1	1	2	15:15	19.5	7.85	28	7.79	5.49	7.6
TMCLKL	HY/2012/08	2017-04-05	Mid-Flood	Cloudy	Small wave	IS12	Middle	6.2	2	1	15:15	19.6	8.03	28.1	7.72	5.72	7.9
TMCLKL	HY/2012/08	2017-04-05	Mid-Flood	Cloudy	Small wave	IS12	Middle	6.2	2	2	15:15	19.7	8.07	28.2	7.77	5.78	7.6
TMCLKL	HY/2012/08	2017-04-05	Mid-Flood	Cloudy	Small wave	IS12	Bottom	11.3	3	1	15:15	19.9	7.73	28.3	7.86	5.9	8.1
TMCLKL	HY/2012/08	2017-04-05	Mid-Flood	Cloudy	Small wave	IS12	Bottom	11.3	3	2	15:15	19.9	7.79	28.4	7.8	5.86	7.9
TMCLKL	HY/2012/08	2017-04-05	Mid-Flood	Cloudy	Small wave	IS13	Surface	1	1	1	14:57	19.5	7.95	28.1	7.37	5.28	7.5
TMCLKL	HY/2012/08	2017-04-05	Mid-Flood	Cloudy	Small wave	IS13	Surface	1	1	2	14:57	19.6	7.99	28.1	7.4	5.31	7.3
TMCLKL	HY/2012/08	2017-04-05	Mid-Flood	Cloudy	Small wave	IS13	Middle	5.9	2	1	14:57	19.7	7.9	28	7.44	5.56	7.5
TMCLKL	HY/2012/08	2017-04-05	Mid-Flood	Cloudy	Small wave	IS13	Middle	5.9	2	2	14:57	19.8	7.95		7.48	5.53	7.8
TMCLKL	HY/2012/08	2017-04-05	Mid-Flood	Cloudy	Small wave	IS13	Bottom	10.7	3	1	14:57	19.9	7.93		7.55	5.71	7.8
TMCLKL	HY/2012/08	2017-04-05	Mid-Flood	Cloudy	Small wave	IS13	Bottom	10.7	3	2	14:57	19.8	7.95		7.52	5.77	7.8
TMCLKL	HY/2012/08	2017-04-05	Mid-Flood	Cloudy	Small wave	IS14	Surface	1	1	1	15:32	19.6	7.8		7.61	5.4	6.7
TMCLKL	HY/2012/08	2017-04-05	Mid-Flood	Cloudy	Small wave	IS14	Surface	1	1	2	15:32	19.7	7.77		7.66	5.47	7
TMCLKL	HY/2012/08	2017-04-05	Mid-Flood	Cloudy	Small wave	IS14		5.8	2	1	15:32	19.6	7.93		7.79	5.54	7
TMCLKL	HY/2012/08	2017-04-05	Mid-Flood	Cloudy	Small wave	IS14	Middle	5.8	2	2	15:32	19.6	7.95		7.82	5.57	7.1
TMCLKL	HY/2012/08	2017-04-05	Mid-Flood	Cloudy	Small wave	IS14 IS14	Bottom	10.5	3	1	15:32	19.9	7.74		7.86	5.72	7
TMCLKL	HY/2012/08	2017-04-05	Mid-Flood	Cloudy	Small wave	IS14	Bottom	10.5	3	2	15:32	19.7	7.78		7.89	5.77	7.4
TMCLKL	HY/2012/08	2017-04-05	Mid-Flood	Cloudy	Small wave	IS14 IS15	Surface	10.5	1	1	14:38	19.5	7.84		7.65	5.56	7.5
TMCLKL	HY/2012/08	2017-04-05	Mid-Flood	Cloudy	Small wave	IS15 IS15	Surface	1	1	2	14:38	19.6	7.88		7.67	5.58	7.7
TMCLKL	HY/2012/08	2017-04-05	Mid-Flood	Cloudy	Small wave	IS15 IS15	Middle	5.1	2	1	14:38	19.6	7.95	28.1	7.63	5.77	7.6
		2017-04-05				IS15 IS15			2	2					7.66		8
TMCLKL TMCLKL	HY/2012/08 HY/2012/08		Mid-Flood Mid-Flood	Cloudy Cloudy	Small wave		Middle Bottom	5.1	2	۲ ۱	14:38 14:38	19.7 19.7	7.99 8.05		7.00	5.79 5.67	o 7.5
									ა ა	2					7.70		
	HY/2012/08	2017-04-05	Mid-Flood	Cloudy		IS15		9.1	3	4	14:38	19.8	8.1			5.71	7.5
	HY/2012/08	2017-04-05	Mid-Flood	Cloudy		SR8	Surface	1	1			19.6			7.66	5.53	7.3 7.1
	HY/2012/08	2017-04-05	Mid-Flood	Cloudy		SR8	Surface		1	2		19.6	7.87	28.2	7.69	5.58	1.1
	HY/2012/08	2017-04-05	Mid-Flood	Cloudy	Small wave	SR8	Middle		2		14:07						
	HY/2012/08	2017-04-05	Mid-Flood	Cloudy		SR8	Middle	4.4	2	2	14:07	10.7	7.00		7 77	F 07	7.0
	HY/2012/08	2017-04-05	Mid-Flood	Cloudy		SR8		4.4	3	1		19.7			7.77	5.67	7.3
	HY/2012/08	2017-04-05	Mid-Flood	Cloudy		SR8	-	4.4	3	2		19.8			7.7	5.7	7.3
TMCLKL	HY/2012/08	2017-04-05	Mid-Flood	Cloudy		SR9	Surface	1	1	1	14:22	19.6			7.44	5.32	/
TMCLKL	HY/2012/08	2017-04-05	Mid-Flood	Cloudy	Small wave	SR9	Surface	1	1	2	14:22	19.7	8.08	28.1	7.47	5.36	6.8
TMCLKL	HY/2012/08	2017-04-05	Mid-Flood	Cloudy		SR9	Middle		2	1	14:22						┥───
TMCLKL	HY/2012/08	2017-04-05	Mid-Flood	Cloudy		SR9	Middle		2	2	14:22						<u> </u>
TMCLKL	HY/2012/08	2017-04-05	Mid-Flood	Cloudy		SR9		3.6	3	1		19.8			7.51	5.5	7
TMCLKL	HY/2012/08	2017-04-05	Mid-Flood	Cloudy	Small wave	SR9		3.6	3	2	14:22	19.8	8.17		7.55	5.55	7.2
TMCLKL	HY/2012/08	2017-04-05	Mid-Flood	Cloudy	Small wave	SR10A	Surface	1	1	1	13:48	19.6	7.84		7.55	5.32	6.8
TMCLKL	HY/2012/08	2017-04-05	Mid-Flood	Cloudy	Small wave		Surface	1	1	2	13:48	19.7			7.58	5.38	7
TMCLKL	HY/2012/08	2017-04-05	Mid-Flood	Cloudy	Small wave	SR10A	Middle	7	2	1	13:48	19.7	7.9		7.68	5.42	6.8
TMCLKL	HY/2012/08	2017-04-05	Mid-Flood	Cloudy	Small wave		Middle	7	2	2	13:48	19.8	7.94		7.66	5.47	7
TMCLKL	HY/2012/08	2017-04-05	Mid-Flood	Cloudy	Small wave		-	12.9	3	1	13:48	19.8			7.73	5.64	7.5
TMCLKL	HY/2012/08	2017-04-05	Mid-Flood	Cloudy	Small wave		Bottom	12.9	3	2		19.9			7.77	5.68	7.6
TMCLKL	HY/2012/08	2017-04-05	Mid-Ebb	Cloudy	Small wave	CS4	Surface	1	1	1		19.4			7.68	5.75	8.5
TMCLKL	HY/2012/08	2017-04-05	Mid-Ebb	Cloudy	Small wave	CS4	Surface	1	1	2	09:24	19.5			7.66	5.78	8.2
TMCLKL	HY/2012/08	2017-04-05	Mid-Ebb	Cloudy	Small wave	CS4		8.8	2	1	09:24	19.5	7.9		7.76	5.85	8.7
TMCLKL	HY/2012/08	2017-04-05	Mid-Ebb	Cloudy	Small wave	CS4	Middle	8.8	2	2	09:24	19.6			7.79	5.88	8.5
TMCLKL	HY/2012/08	2017-04-05	Mid-Ebb	Cloudy	Small wave	CS4	Bottom	16.6	3	1	09:24	19.7	8.13	28.3	7.94	5.95	8.6
TMCLKL	HY/2012/08	2017-04-05	Mid-Ebb	Cloudy	Small wave	CS4	Bottom	16.6	3	2	09:24	19.6	8.11	28.4	7.92	5.98	8.4
TMCLKL	HY/2012/08	2017-04-05	Mid-Ebb	Cloudy	Small wave	CS6	Surface	1	1	1	11:40	19.7	8.1	28.3	7.36	5.8	8
TMCLKL	HY/2012/08	2017-04-05	Mid-Ebb	Cloudy	Small wave	CS6	Surface	1	1	2	11:40	19.8	8.13		7.38	5.78	8.6
	HY/2012/08	2017-04-05	Mid-Ebb	Cloudy			Middle	6.7	2	1		19.8	7.98		7.5	5.9	8.8
		2017-04-05		Cloudy	Small wave		Middle		2	2	11:40		8.01		7.52	5.93	8.5

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	2017-04-05	Mid-Ebb	Cloudy	Small wave	CS6	Bottom	12.4	3	1	11:40	19.8	8.17	28.6	7.64	6	8.7
TMCLKL	HY/2012/08	2017-04-05	Mid-Ebb	Cloudy	Small wave	CS6	Bottom	12.4	3	2	11:40	19.9	8.19	28.5	7.62	6.03	8.8
TMCLKL	HY/2012/08	2017-04-05	Mid-Ebb	Cloudy	Small wave	IS12	Surface	1	1	1	09:58	19.5	7.95	28.1	7.65	5.66	7.8
TMCLKL	HY/2012/08	2017-04-05	Mid-Ebb	Cloudy	Small wave	IS12	Surface	1	1	2	09:58	19.4	7.96	28.2	7.62	5.69	7.5
TMCLKL	HY/2012/08	2017-04-05	Mid-Ebb	Cloudy	Small wave	IS12	Middle	5.9	2	1	09:58	19.6	8.1	28.2	7.69	5.83	8.1
TMCLKL	HY/2012/08	2017-04-05	Mid-Ebb	Cloudy	Small wave	IS12	Middle	5.9	2	2	09:58	19.7	8.13	28.3	7.71	5.85	8
TMCLKL	HY/2012/08	2017-04-05	Mid-Ebb	Cloudy	Small wave	IS12	Bottom	10.8	3	1	09:58	19.7	7.98	28.3	7.79	6	8
TMCLKL	HY/2012/08	2017-04-05	Mid-Ebb	Cloudy	Small wave	IS12	Bottom	10.8	3	2	09:58	19.8	8	28.4	7.76	6.03	8.2
TMCLKL	HY/2012/08	2017-04-05	Mid-Ebb	Cloudy	Small wave	IS13	Surface	1	1	1	10:15	19.5	8.12	28.2	7.21	5.45	7.6
TMCLKL	HY/2012/08	2017-04-05	Mid-Ebb	Cloudy	Small wave	IS13	Surface	1	1	2	10:15	19.6	8.15	28.1	7.24	5.48	7.7
TMCLKL	HY/2012/08	2017-04-05	Mid-Ebb	Cloudy	Small wave	IS13	Middle	5.7	2	1	10:15	19.7	8	28.3	7.36	5.66	7.9
TMCLKL	HY/2012/08	2017-04-05	Mid-Ebb	Cloudy	Small wave	IS13	Middle	5.7	2	2	10:15	19.6	8.03	28.4	7.38	5.69	7.6
TMCLKL	HY/2012/08	2017-04-05	Mid-Ebb	Cloudy	Small wave	IS13	Bottom	10.4	3	1	10:15	19.7	8.06	28.4	7.51	5.83	8.3
TMCLKL	HY/2012/08	2017-04-05	Mid-Ebb	Cloudy	Small wave	IS13	Bottom	10.4	3	2	10:15	19.8	8.09	28.5	7.54	5.81	8.1
TMCLKL	HY/2012/08	2017-04-05	Mid-Ebb	Cloudy	Small wave	IS14	Surface	1	1	1	09:41	19.5	7.95		7.5	5.51	6.8
TMCLKL	HY/2012/08	2017-04-05	Mid-Ebb	Cloudy	Small wave	IS14	Surface	1	1	2	09:41	19.6			7.48	5.53	7
TMCLKL	HY/2012/08	2017-04-05	Mid-Ebb	Cloudy	Small wave	IS14	Middle	5.6	2	1	09:41	19.7	8.04	28.1	7.65	5.52	6.8
TMCLKL	HY/2012/08	2017-04-05	Mid-Ebb	Cloudy		IS14		5.6	2	2	09:41	19.6			7.67	5.65	6.9
TMCLKL	HY/2012/08	2017-04-05	Mid-Ebb	Cloudy	Small wave	IS14		10.2	3	1	09:41	19.6	7.87		7.76	5.83	7.4
TMCLKL	HY/2012/08	2017-04-05	Mid-Ebb	Cloudy	Small wave	IS14	Bottom	10.2	3	2	09:41	19.7	7.89		7.79	5.84	7.1
TMCLKL	HY/2012/08	2017-04-05	Mid-Ebb	Cloudy	Small wave	IS15	Surface	1	1	1	10:32	19.5			7.47	5.7	7.7
TMCLKL	HY/2012/08	2017-04-05	Mid-Ebb	Cloudy		IS15	Surface	1	1	2	10:32	19.4			7.44	5.73	7.8
TMCLKL	HY/2012/08	2017-04-05	Mid-Ebb	Cloudy		IS15		4.8	2	1	10:32	19.5	8.1		7.55	5.8	7.8
TMCLKL	HY/2012/08	2017-04-05	Mid-Ebb	Cloudy		IS15		4.8	2	2	10:32	19.6			7.57	5.83	7.8
TMCLKL	HY/2012/08	2017-04-05	Mid-Ebb	Cloudy	Small wave	IS15		8.6	3	1	10:32	19.7	8.17		7.64	5.86	7.9
TMCLKL	HY/2012/08	2017-04-05	Mid-Ebb	Cloudy	Small wave	IS15		8.6	3	2	10:32	19.6			7.66	5.88	7.8
		2017-04-05		Cloudy			Surface		1	1		19.6	7.82		7.54	5.66	7.5
TMCLKL	HY/2012/08		Mid-Ebb	Cloudy		SR8	Surface	1	1	2		19.5	7.85		7.52	5.69	7.3
TMCLKL			Mid-Ebb	Cloudy		SR8	Middle		2	1	11:06	10.0	1.00	20.2	1.02	0.00	1.0
TMCLKL			Mid-Ebb	Cloudy		SR8	Middle		2	2	11:06						+
TMCLKL	HY/2012/08	2017-04-05	Mid-Ebb	Cloudy	Small wave	SR8	Bottom	4	3	1	11:06	19.6	8.1	28.3	7.66	5.86	7.7
TMCLKL	HY/2012/08	2017-04-05	Mid-Ebb	Cloudy		SR8	Bottom	4	3	2	11:06	19.7			7.68	5.88	7.7
TMCLKL	HY/2012/08	2017-04-05	Mid-Ebb	Cloudy		SR9	Surface	1	1	1	10:49	19.6			7.3	5.5	7.2
TMCLKL			Mid-Ebb	Cloudy		SR9	Surface	1	1	2	10:49	19.7	8.13		7.32	5.53	7.2
TMCLKL	HY/2012/08	2017-04-05	Mid-Ebb	Cloudy		SR9	Middle		2	1	10:49	13.7	0.13	20.0	1.52	0.00	1.2
TMCLKL	HY/2012/08	2017-04-05	Mid-Ebb	Cloudy		SR9	Middle		2	2	10:49						+
TMCLKL	HY/2012/08	2017-04-05	Mid-Ebb	Cloudy		SR9		3.2	2	1	10:49	19.6	8.17	28.3	7.46	5.66	7.3
TMCLKL	HY/2012/08	2017-04-05	Mid-Ebb	Cloudy	Small wave	SR9		3.2 3.2	3	2	10:49	19.5	8.15		7.48	5.69	7.3
TMCLKL	HY/2012/08		Mid-Ebb	Cloudy			Surface	J.Z 1	J 1	1	11:23	19.5			7.40	5.49	7.2
TMCLKL	HY/2012/08		Mid-Ebb	Cloudy			Surface	1	1	2	11:23	19.0			7.39	5.51	7.2
	HY/2012/08			Cloudy				1 6.8	2	۲ ۱	11:23	19.7			7.59 7.54	5.69	7.2
TMCLKL TMCLKL	HY/2012/08		Mid-Ebb Mid-Ebb	Cloudy				6.8	<u>~</u> 2	2	11:23	19.7 19.6			7.54 7.52	5.69	7.3 7.3
	HY/2012/08 HY/2012/08	2017-04-05	Mid-Ebb	Cloudy	Small wave			6.8 12.6	2	<u>د</u> 1					7.52 7.68	5.76	7.3 7.4
		2017-04-05		,	Small wave				3	1 2	11:23	19.7 10.8			7.08 7.7		7.4
	HY/2012/08		Mid-Ebb Mid Elood	Cloudy				12.6	ა 1	4	11:23	19.8				5.79	
	HY/2012/08		Mid-Flood	Cloudy		CS4	Surface	1	1			20.3			7.61	6.05	8.9
			Mid-Flood	Cloudy			Surface		1	2		20.3			7.58	6.11	8.9
	HY/2012/08	2017-04-08	Mid-Flood	Cloudy		CS4		9.1	2			20.3			7.53	6.27	9.2
	HY/2012/08	2017-04-08	Mid-Flood	Cloudy		CS4		9.1	2	2		20.2			7.5	6.34	9.2
	HY/2012/08	2017-04-08	Mid-Flood	Cloudy		CS4		17.1	<u>ა</u>	1	17:44	20.2			7.44	6.4	9.4
	HY/2012/08	2017-04-08	Mid-Flood	Cloudy		CS4		17.1	3	2		20.1			7.39	6.48	9.1
TMCLKL	HY/2012/08	2017-04-08	Mid-Flood	Cloudy		CS6	Surface	1	1	1		20.3			7.64	5.98	9
TMCLKL	HY/2012/08	2017-04-08	Mid-Flood	Cloudy		CS6	Surface	1	1	2		20.3			7.62	6.06	8.9
TMCLKL	HY/2012/08	2017-04-08	Mid-Flood	Cloudy		CS6		6.9	2	1	15:35	20.3			7.59	5.79	8.3
TMCLKL	HY/2012/08	2017-04-08	Mid-Flood	Cloudy		CS6		6.9	2	2		20.2			7.56	5.83	8.7
	HY/2012/08		Mid-Flood	Cloudy		CS6		12.8	3	1		20.2	8.03		7.69	6.12	9
IMCLKL	HY/2012/08	2017-04-08	Mid-Flood	Cloudy	Small wave	CS6	Bottom	12.8	3	2	15:35	20.2	8.07	28.2	7.71	6.17	9.2

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	2017-04-08	Mid-Flood	Cloudy	Small wave	IS12	Surface	1	1	1	17:06	20.3	7.94	28.1	7.43	5.89	7.8
TMCLKL	HY/2012/08	2017-04-08	Mid-Flood	Cloudy	Small wave	IS12	Surface	1	1	2	17:06	20.4	7.99	28.1	7.39	5.95	8.2
TMCLKL	HY/2012/08	2017-04-08	Mid-Flood	Cloudy	Small wave	IS12	Middle	6.1	2	1	17:06	20.3	7.87	28.1	7.48	6.03	7.9
TMCLKL	HY/2012/08	2017-04-08	Mid-Flood	Cloudy	Small wave	IS12	Middle	6.1	2	2	17:06	20.3	7.92	28.1	7.51	6.08	8.4
TMCLKL	HY/2012/08	2017-04-08	Mid-Flood	Cloudy	Small wave	IS12	Bottom	11.2	3	1	17:06	20.2	7.9	28.2	7.6	6.24	8.5
TMCLKL	HY/2012/08	2017-04-08	Mid-Flood	Cloudy	Small wave	IS12	Bottom	11.2	3	2	17:06	20.2	7.94	28.3	7.63	6.29	8.3
TMCLKL	HY/2012/08	2017-04-08	Mid-Flood	Cloudy	Small wave	IS13	Surface	1	1	1	16:49	20.3	7.94	28.1	7.43	6.07	8.2
TMCLKL	HY/2012/08	2017-04-08	Mid-Flood	Cloudy	Small wave	IS13	Surface	1	1	2	16:49	20.4	7.97	28.1	7.41	6.11	8.6
TMCLKL	HY/2012/08	2017-04-08	Mid-Flood	Cloudy	Small wave	IS13	Middle	5.8	2	1	16:49	20.3	7.88	28.1	7.38	5.83	8
TMCLKL	HY/2012/08	2017-04-08	Mid-Flood	Cloudy	Small wave	IS13		5.8	2	2	16:49	20.3	7.93		7.36	5.78	7.9
TMCLKL	HY/2012/08	2017-04-08	Mid-Flood	Cloudy	Small wave	IS13		10.6	3	1	16:49	20.2	7.92	28.2	7.17	5.94	8.2
TMCLKL	HY/2012/08	2017-04-08	Mid-Flood	Cloudy		IS13		10.6	3	2	16:49	20.2	7.97		7.2	5.99	8.1
TMCLKL	HY/2012/08	2017-04-08	Mid-Flood	Cloudy		IS14	Surface	1	1	1	17:24	20.3	7.88		7.53	5.93	7.4
TMCLKL	HY/2012/08	2017-04-08	Mid-Flood	Cloudy	Small wave		Surface	1	1	2	17:24	20.3			7.49	6.01	7.4
TMCLKL	HY/2012/08	2017-04-08	Mid-Flood	Cloudy		IS14	-	5.8	2	1	17:24	20.3			7.44	6.24	8
TMCLKL	HY/2012/08	2017-04-08	Mid-Flood	Cloudy		IS14		5.8	2	2	17:24	20.4			7.4	6.18	7.7
TMCLKL	HY/2012/08	2017-04-08	Mid-Flood	Cloudy		IS14		10.6	3	1	17:24	20.2			7.37	6.33	7.7
TMCLKL	HY/2012/08	2017-04-08	Mid-Flood	Cloudy		IS14 IS14		10.6	3	2	17:24	20.2			7.34	6.39	7.8
TMCLKL	HY/2012/08	2017-04-08	Mid-Flood	Cloudy	Small wave		Surface	10.0	1	1	16:32	20.3	7.97		7.49	5.97	8.2
TMCLKL	HY/2012/08	2017-04-08	Mid-Flood	Cloudy	Small wave		Surface	1	1	2	16:32	20.3	7.97 8		7.51	6.04	8.2 8.2
	HY/2012/08	2017-04-08	Mid-Flood	Cloudy	Small wave	IS15 IS15		4.9	2	۲ ۱	16:32	20.3	8.04		7.43	5.88	7.9
							-		2	1					7.43 7.4		
	HY/2012/08	2017-04-08	Mid-Flood	Cloudy		IS15		4.9	2	2	16:32	20.3	8.01			5.92	7.9
	HY/2012/08	2017-04-08	Mid-Flood	Cloudy	Small wave	IS15		8.8	3	1	16:32	20.2			7.29	6.09	8.1
	HY/2012/08	2017-04-08	Mid-Flood	Cloudy	Small wave	IS15	-	8.8	3	2	16:32	20.2	7.99		7.26	6.16	8.5
TMCLKL	HY/2012/08	2017-04-08	Mid-Flood	Cloudy	Small wave	SR8	Surface	1	1	1	16:12	20.3	7.84	28	7.48	5.76	7.3
TMCLKL	HY/2012/08	2017-04-08	Mid-Flood	Cloudy	Small wave	SR8	Surface	1	1	2	16:12	20.3	7.87	28	7.51	5.82	7.6
			Mid-Flood	Cloudy		SR8	Middle		2	1	16:12						
	HY/2012/08	2017-04-08	Mid-Flood	Cloudy		SR8	Middle		2	2	16:12						
	HY/2012/08	2017-04-08	Mid-Flood	Cloudy		SR8		4.6	3	1		20.3			7.58	6.01	7.8
TMCLKL	HY/2012/08	2017-04-08	Mid-Flood	Cloudy		SR8		4.6	3	2	16:12	20.3			7.6	5.96	7.7
TMCLKL	HY/2012/08	2017-04-08	Mid-Flood	Cloudy	Small wave	SR9	Surface	1	1	1	16:20	20.3			7.58	5.84	7.3
	HY/2012/08	2017-04-08	Mid-Flood	Cloudy		SR9	Surface	1	1	2	16:20	20.4	8.04	28.1	7.55	5.91	7.8
TMCLKL	HY/2012/08	2017-04-08	Mid-Flood	Cloudy		SR9	Middle		2	1	16:20						
TMCLKL	HY/2012/08	2017-04-08	Mid-Flood	Cloudy		SR9	Middle		2	2	16:20						
TMCLKL	HY/2012/08	2017-04-08	Mid-Flood	Cloudy		SR9	-	3.6	3	1	16:20	20.3			7.63	6.07	7.8
TMCLKL	HY/2012/08	2017-04-08	Mid-Flood	Cloudy	Small wave	SR9	-	3.6	3	2	16:20	20.3			7.66	6.02	7.9
TMCLKL	HY/2012/08	2017-04-08	Mid-Flood	Cloudy	Small wave	SR10A	Surface	1	1	1	15:56	20.3	7.99	28	7.58	5.87	7.6
TMCLKL	HY/2012/08	2017-04-08	Mid-Flood	Cloudy	Small wave	SR10A	Surface	1	1	2	15:56	20.3	7.95	28.1	7.6	5.93	7.5
TMCLKL	HY/2012/08	2017-04-08	Mid-Flood	Cloudy	Small wave	SR10A	Middle	6.8	2	1	15:56	20.2	7.93	28.1	7.54	5.69	7.5
TMCLKL	HY/2012/08	2017-04-08	Mid-Flood	Cloudy	Small wave	SR10A	Middle	6.8	2	2	15:56	20.2	7.97	28.1	7.51	5.76	7.5
TMCLKL	HY/2012/08	2017-04-08	Mid-Flood	Cloudy	Small wave	SR10A	Bottom	12.5	3	1	15:56	20.2	7.96	28.2	7.66	6.03	7.9
TMCLKL	HY/2012/08	2017-04-08	Mid-Flood	Cloudy	Small wave	SR10A	Bottom	12.5	3	2	15:56	20.1	7.99	28.2	7.68	6.09	7.7
TMCLKL	HY/2012/08	2017-04-08	Mid-Ebb	Cloudy	Small wave	CS4	Surface	1	1	1	11:52	20.3	7.82	28	7.44	6.03	8.8
TMCLKL	HY/2012/08	2017-04-08	Mid-Ebb	Cloudy	Small wave	CS4	Surface	1	1	2	11:52	20.3	7.89	28	7.47	6.07	8.8
TMCLKL	HY/2012/08	2017-04-08	Mid-Ebb	Cloudy		CS4	Middle	5.6	2	1	11:52	20.4			7.31	6.3	9
	HY/2012/08	2017-04-08	Mid-Ebb	Cloudy		CS4		5.6	2	2	11:52	20.5			7.37	6.33	9.3
TMCLKL	HY/2012/08	2017-04-08	Mid-Ebb	Cloudy		CS4		10.1	3	1	11:52	20.4		28.2	7.26	6.45	9.2
TMCLKL	HY/2012/08	2017-04-08	Mid-Ebb	Cloudy		CS4		10.1	3	2	11:52	20.6	7.82		7.29	6.47	9.2
TMCLKL	HY/2012/08	2017-04-08	Mid-Ebb	Cloudy		CS6	Surface	1	1	1	13:14	20.3	7.85		7.44	6.1	9
TMCLKL	HY/2012/08	2017-04-08	Mid-Ebb	Cloudy		CS6	Surface	1	1	2		20.4			7.48	6.14	9.1
TMCLKL	HY/2012/08	2017-04-08	Mid-Ebb	Cloudy		CS6		6.7	2	1		20.4			7.41	6.07	9
TMCLKL	HY/2012/08	2017-04-08	Mid-Ebb	Cloudy		CS6		6.7 6.7	2	2	13:14	20.4			7.47	6.09	8.9
TMCLKL	HY/2012/08	2017-04-08	Mid-Ebb	Cloudy		CS6	-	12.4	3	1	13:14	20.4			7.52	6.25	9.3
	HY/2012/08	2017-04-08	Mid-Ebb	Cloudy		CS6	-	12.4	3	2	13:14	20.4			7.58	6.28	9.3 9.4
			Mid-Ebb	Cloudy		IS12	Surface	1	1	<u>-</u> 1		20.3	7.85		7.3	6.04	9.4 8.3
		2017-04-08		Cloudy	Small wave		Surface	1	1	2	12:05		7.88		7.34	6.07	8.1
	ΙΊΤ/ΖυΙΖ/ŬŎ	2017-04-08	ממם-במט	Ciouuy	Small wave	1312	Sunace	1	1	4	12.00	20.4	00. I	20.1	1.34	0.07	0.1

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	2017-04-08	Mid-Ebb	Cloudy	Small wave	IS12	Middle	5.9	2	1	12:05	20.4	7.69	28.1	7.37	6.09	8.4
TMCLKL	HY/2012/08	2017-04-08	Mid-Ebb	Cloudy	Small wave	IS12	Middle	5.9	2	2	12:05	20.5	7.66	28.2	7.35	6.12	8.3
TMCLKL	HY/2012/08	2017-04-08	Mid-Ebb	Cloudy	Small wave	IS12	Bottom	10.7	3	1	12:05	20.4	7.81	28.2	7.45	6.33	8.4
TMCLKL	HY/2012/08	2017-04-08	Mid-Ebb	Cloudy	Small wave	IS12	Bottom	10.7	3	2	12:05	20.4	7.87	28.3	7.49	6.37	8.8
TMCLKL	HY/2012/08	2017-04-08	Mid-Ebb	Cloudy	Small wave	IS13	Surface	1	1	1	12:17	20.3	7.86	28.1	7.32	6.14	8.5
TMCLKL	HY/2012/08	2017-04-08	Mid-Ebb	Cloudy	Small wave	IS13	Surface	1	1	2	12:17	20.2	7.88	28.1	7.36	6.19	8.4
TMCLKL	HY/2012/08	2017-04-08	Mid-Ebb	Cloudy	Small wave	IS13	Middle	5.7	2	1	12:17	20.3	7.68	28.1	7.26	6.03	8.5
TMCLKL	HY/2012/08	2017-04-08	Mid-Ebb	Cloudy	Small wave	IS13	Middle	5.7	2	2	12:17	20.3	7.73	28.2	7.3	6.08	8.3
TMCLKL	HY/2012/08	2017-04-08	Mid-Ebb	Cloudy	Small wave	IS13	Bottom	10.3	3	1	12:17	20.3	7.88	28.2	7.1	6.05	8.3
TMCLKL	HY/2012/08	2017-04-08	Mid-Ebb	Cloudy	Small wave	IS13	Bottom	10.3	3	2	12:17	20.4	7.85	28.2	7.15	6.07	8.5
TMCLKL	HY/2012/08	2017-04-08	Mid-Ebb	Cloudy	Small wave	IS14	Surface	1	1	1	11:52	20.3	7.63	28	7.37	6.05	7.6
TMCLKL	HY/2012/08	2017-04-08	Mid-Ebb	Cloudy	Small wave	IS14	Surface	1	1	2	11:52	20.3	7.66	28.1	7.4	6.07	7.4
TMCLKL	HY/2012/08	2017-04-08	Mid-Ebb	Cloudy	Small wave	IS14	Middle	5.6	2	1	11:52	20.3	7.78	28.1	7.32	6.19	7.6
TMCLKL	HY/2012/08	2017-04-08	Mid-Ebb	Cloudy	Small wave	IS14	Middle	5.6	2	2	11:52	20.4	7.82		7.35	6.23	7.6
TMCLKL	HY/2012/08	2017-04-08	Mid-Ebb	Cloudy	Small wave	IS14	Bottom	10.1	3	1	11:52	20.4	7.69		7.22	6.39	7.9
TMCLKL	HY/2012/08	2017-04-08	Mid-Ebb	Cloudy	Small wave	IS14	Bottom	10.1	3	2	11:52	20.5	7.71		7.26	6.42	8
TMCLKL	HY/2012/08	2017-04-08	Mid-Ebb	Cloudy	Small wave	IS15	Surface	1	1	1	12:29	20.3	7.92		7.31	6.05	8.1
TMCLKL	HY/2012/08	2017-04-08	Mid-Ebb	Cloudy	Small wave	IS15	Surface	1	1	2	12:29	20.3	7.96		7.34	6.08	8.4
TMCLKL	HY/2012/08	2017-04-08	Mid-Ebb	Cloudy	Small wave	IS15	Middle	4.8	2	1	12:29	20.3	7.82		7.3	6.01	8.3
TMCLKL	HY/2012/08	2017-04-08	Mid-Ebb	Cloudy	Small wave	IS15 IS15	Middle	4.8	2	2	12:29	20.3	7.87		7.36	6.09	8.1
TMCLKL	HY/2012/08	2017-04-08	Mid-Ebb	Cloudy	Small wave	IS15 IS15		4.0 8.5	3	1	12:29	20.4			7.15	6.16	8.3
TMCLKL	HY/2012/08	2017-04-08	Mid-Ebb	Cloudy	Small wave	IS15 IS15		8.5 8.5	3	2	12:29	20.4	7.77		7.18	6.2	8.3
TMCLKL	HY/2012/08	2017-04-08	Mid-Ebb	Cloudy	Small wave	SR8	Surface	0.J 1	J 1	1	12:52	20.4	7.76		7.36	5.87	7.6
	HY/2012/08	2017-04-08	Mid-Ebb	Cloudy		SR8	Surface	1	1	2	12:52	20.3	7.79		7.39	5.9	7.4
		2017-04-08			Small wave	SR8	Middle		1	۲ ۱		20.4	1.19	20.2	7.39	5.9	/.4
	HY/2012/08		Mid-Ebb	Cloudy	Small wave				2		12:52						
	HY/2012/08	2017-04-08	Mid-Ebb	Cloudy	Small wave	SR8	Middle	4.0	2	2	12:52	20.4	7 00	00.0	7.40	C 00	
	HY/2012/08	2017-04-08	Mid-Ebb	Cloudy			Bottom		3	1		20.4			7.42	6.09	7.7
	HY/2012/08	2017-04-08	Mid-Ebb	Cloudy		SR8		4.2	3	2	12:52	20.4			7.46	6.12	7.9
TMCLKL	HY/2012/08	2017-04-08	Mid-Ebb	Cloudy		SR9	Surface	1	1	1		20.3			7.42	6.02	7.9
TMCLKL	HY/2012/08	2017-04-08	Mid-Ebb	Cloudy		SR9	Surface	1	1	2		20.4	7.95	28.1	7.44	6.07	7.7
TMCLKL	HY/2012/08	2017-04-08	Mid-Ebb	Cloudy		SR9	Middle		2	1	12:41						
TMCLKL	HY/2012/08	2017-04-08	Mid-Ebb	Cloudy		SR9	Middle		2	2	12:41						
TMCLKL	HY/2012/08	2017-04-08	Mid-Ebb	Cloudy		SR9		3.2	3	1		20.4	8		7.51	6.12	7.6
TMCLKL	HY/2012/08	2017-04-08	Mid-Ebb	Cloudy		SR9		3.2	3	2		20.5			7.56	6.19	8.13
TMCLKL	HY/2012/08	2017-04-08	Mid-Ebb	Cloudy	Small wave	-	Surface	1	1	1	13:03	20.3			7.42	6.03	7.6
TMCLKL	HY/2012/08	2017-04-08	Mid-Ebb	Cloudy	Small wave	-	Surface	1	1	2	13:03	20.4			7.45	6.09	7.7
TMCLKL	HY/2012/08	2017-04-08	Mid-Ebb	Cloudy	Small wave	SR10A	Middle	6.6	2	1	13:03	20.4	7.82		7.43	6	7.9
TMCLKL	HY/2012/08	2017-04-08	Mid-Ebb	Cloudy	Small wave	SR10A	Middle	6.6	2	2	13:03	20.5	7.88		7.47	6.04	7.9
TMCLKL	HY/2012/08	2017-04-08	Mid-Ebb	Cloudy	Small wave	SR10A	Bottom	12.1	3	1	13:03	20.5	7.79	28.3	7.56	6.21	8.2
TMCLKL	HY/2012/08	2017-04-08	Mid-Ebb	Cloudy	Small wave	SR10A	Bottom	12.1	3	2	13:03	20.5	7.81		7.58	6.28	8.1
TMCLKL	HY/2012/08	2017-04-11	Mid-Flood	Cloudy	Small wave	CS4	Surface	1	1	1	20:05	21.1	8	28.1	7.67	6.04	8.8
TMCLKL	HY/2012/08	2017-04-11	Mid-Flood	Cloudy	Small wave	CS4	Surface	1	1	2	20:05	21.2	8.04	28.2	7.63	6.07	9
TMCLKL	HY/2012/08	2017-04-11	Mid-Flood	Cloudy	Small wave	CS4	Middle	9.2	2	1	20:05	21.2	8.07	28.3	7.51	6.25	8.9
TMCLKL	HY/2012/08	2017-04-11	Mid-Flood	Cloudy	Small wave	CS4	Middle	9.2	2	2	20:05	21.1	8.13	28.4	7.56	6.29	9
TMCLKL	HY/2012/08	2017-04-11	Mid-Flood	Cloudy		CS4	Bottom	17.3	3	1		21.1			7.48	6.33	9.4
TMCLKL	HY/2012/08	2017-04-11	Mid-Flood	Cloudy		CS4		17.3	3	2		21.3			7.53	6.38	9.1
TMCLKL	HY/2012/08	2017-04-11	Mid-Flood	Cloudy		CS6	Surface	1	1	1		21.2			7.63	6.02	9
TMCLKL	HY/2012/08	2017-04-11	Mid-Flood	Cloudy	Small wave	CS6	Surface	1	1	2		21.2			7.67	6.05	9
TMCLKL	HY/2012/08	2017-04-11	Mid-Flood	Cloudy		CS6	Middle	7	2	1		21.3	8.1		7.54	5.71	8.4
TMCLKL	HY/2012/08	2017-04-11	Mid-Flood	Cloudy		CS6	Middle	7	2	2		21.2			7.58	5.77	8.4
TMCLKL	HY/2012/08	2017-04-11	Mid-Flood	Cloudy		CS6	Bottom	, 12.9	3	1		21.3			7.71	6.06	9
TMCLKL	HY/2012/08	2017-04-11	Mid-Flood	Cloudy		CS6	Bottom	12.9	3	2		21.4			7.75	6.1	9
	HY/2012/08	2017-04-11	Mid-Flood	Cloudy	Small wave	IS12	Surface	1	1	1		21.4			7.43	5.88	9 7.8
	HY/2012/08	2017-04-11	Mid-Flood			IS12 IS12		1	1	2					7.43 7.46		7.0
				Cloudy	Small wave		Surface Middlo	6.2	2	4		21.3			7.40 7.5	5.91	7.9 8.3
	HY/2012/08	2017-04-11	Mid-Flood	Cloudy			Middle		2		19:34		8.06			0	
TNICLKL	HY/2012/08	2017-04-11	IVIIA-FIOOD	Cloudy	Small wave	1512	Middle	0.2	2	2	19:34	21.3	8.1	28.4	7.55	6.04	8.3

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	2017-04-11	Mid-Flood	Cloudy	Small wave	IS12	Bottom	11.3	3	1	19:34	21.3	8.17	28.5	7.57	6.21	8.4
TMCLKL	HY/2012/08	2017-04-11	Mid-Flood	Cloudy	Small wave	IS12	Bottom	11.3	3	2	19:34	21.4	8.11	28.6	7.6	6.27	8.3
TMCLKL	HY/2012/08	2017-04-11	Mid-Flood	Cloudy	Small wave	IS13	Surface	1	1	1	19:14	21.1	8.06	28.1	7.46	6.02	8.2
TMCLKL	HY/2012/08	2017-04-11	Mid-Flood	Cloudy	Small wave	IS13	Surface	1	1	2	19:14	21.2	8.09	28.2	7.49	6.03	8.5
TMCLKL	HY/2012/08	2017-04-11	Mid-Flood	Cloudy	Small wave	IS13	Middle	5.8	2	1	19:14	21.2	8.01	28.3	7.36	5.77	7.9
TMCLKL	HY/2012/08	2017-04-11	Mid-Flood	Cloudy	Small wave	IS13	Middle	5.8	2	2	19:14	21.3	8.07	28.4	7.38	5.7	7.7
TMCLKL	HY/2012/08	2017-04-11	Mid-Flood	Cloudy	Small wave	IS13	Bottom	10.5	3	1	19:14	21.3	8.04	28.4	7.21	5.89	8.3
TMCLKL	HY/2012/08	2017-04-11	Mid-Flood	Cloudy	Small wave	IS13	Bottom	10.5	3	2	19:14	21.3	8.08	28.3	7.27	5.92	8.2
TMCLKL	HY/2012/08	2017-04-11	Mid-Flood	Cloudy	Small wave	IS14	Surface	1	1	1	19:50	21.2	8.07	28	7.56	5.81	7.4
TMCLKL	HY/2012/08	2017-04-11	Mid-Flood	Cloudy	Small wave	IS14	Surface	1	1	2	19:50	21.2	8.13	28.1	7.57	5.86	7.2
TMCLKL	HY/2012/08	2017-04-11	Mid-Flood	Cloudy	Small wave	IS14	Middle	5.9	2	1	19:50	21.3	8.03	28.1	7.45	6.22	7.5
TMCLKL	HY/2012/08	2017-04-11	Mid-Flood	Cloudy	Small wave	IS14	Middle	5.9	2	2	19:50	21.2	8.08	28.2	7.49	6.27	7.8
TMCLKL	HY/2012/08	2017-04-11	Mid-Flood	Cloudy	Small wave	IS14	Bottom	10.7	3	1	19:50	21.3	8.14	28.3	7.32	6.26	7.6
TMCLKL	HY/2012/08	2017-04-11	Mid-Flood	Cloudy	Small wave	IS14	Bottom	10.7	3	2	19:50	21.4	8.18	28.4	7.38	6.3	8.1
TMCLKL	HY/2012/08	2017-04-11	Mid-Flood	Cloudy	Small wave	IS15	Surface	1	1	1	18:54	21.2	8.09	28	7.56	5.94	8.3
TMCLKL	HY/2012/08	2017-04-11	Mid-Flood	Cloudy	Small wave	IS15	Surface	1	1	2	18:54	21.3	8.13	28.1	7.58	5.97	8.3
TMCLKL	HY/2012/08	2017-04-11	Mid-Flood	Cloudy	Small wave	IS15	Middle	5	2	1	18:54	21.3	8.16	28.1	7.41	5.82	7.9
TMCLKL	HY/2012/08	2017-04-11	Mid-Flood	Cloudy	Small wave	IS15	Middle	5	2	2	18:54	21.4	8.19	28.2	7.44	5.88	8
TMCLKL	HY/2012/08	2017-04-11	Mid-Flood	Cloudy	Small wave	IS15	Bottom	5	3	1	18:54	21.4	8.06	28.3	7.27	6.02	8.4
TMCLKL	HY/2012/08	2017-04-11	Mid-Flood	Cloudy	Small wave	IS15	Bottom	5	3	2	18:54	21.4	8		7.3	6.07	8.1
TMCLKL	HY/2012/08	2017-04-11	Mid-Flood	Cloudy	Small wave	SR8	Surface	1	1	1	18:20	21.2	7.87		7.54	5.67	7.4
TMCLKL	HY/2012/08	2017-04-11	Mid-Flood	Cloudy	Small wave	SR8	Surface	1	1	2	18:20	21.3	7.89		7.58	5.69	7.6
TMCLKL	HY/2012/08	2017-04-11	Mid-Flood	Cloudy	Small wave	SR8	Middle		2	1	18:20						
TMCLKL	HY/2012/08	2017-04-11	Mid-Flood	Cloudy	Small wave	SR8	Middle		2	2	18:20						
TMCLKL	HY/2012/08	2017-04-11	Mid-Flood	Cloudy	Small wave	SR8	Bottom	4.7	3	1	18:20	21.2	8.01	28.3	7.57	5.92	7.5
TMCLKL	HY/2012/08	2017-04-11	Mid-Flood	Cloudy	Small wave	SR8	Bottom	4.7	3	2	18:20	21.2			7.55	5.94	7.7
TMCLKL	HY/2012/08		Mid-Flood	Cloudy		SR9	Surface	1	1	1		21.2			7.54	5.74	7.4
TMCLKL	HY/2012/08	2017-04-11	Mid-Flood	Cloudy		SR9	Surface	1	1	2		21.3			7.58	5.79	7.5
TMCLKL	HY/2012/08	2017-04-11	Mid-Flood	Cloudy		SR9	Middle		2	1	18:36						1
TMCLKL	HY/2012/08	2017-04-11	Mid-Flood	Cloudy	Small wave	SR9	Middle		2	2	18:36						
TMCLKL	HY/2012/08	2017-04-11	Mid-Flood	Cloudy	Small wave	SR9		3.7	3	1		21.3	8.07	28.3	7.61	6.03	7.8
TMCLKL	HY/2012/08	2017-04-11	Mid-Flood	Cloudy	Small wave	SR9		3.7	3	2		21.3	-		7.67	6.07	7.9
TMCLKL	HY/2012/08	2017-04-11	Mid-Flood	Cloudy	Small wave	SR10A	Surface	1	1	1		21.2			7.66	5.82	7.6
TMCLKL	HY/2012/08	2017-04-11	Mid-Flood	Cloudy	Small wave		Surface	1	1	2		21.2			7.69	5.87	7.6
TMCLKL	HY/2012/08	2017-04-11	Mid-Flood	Cloudy	Small wave			6.8	2	1		21.2			7.57	5.63	7.4
TMCLKL	HY/2012/08	2017-04-11	Mid-Flood	Cloudy	Small wave	SR10A		6.8	2	2		21.3			7.54	5.66	7.4
TMCLKL	HY/2012/08	2017-04-11	Mid-Flood	Cloudy	Small wave		Bottom	12.5	3	1		21.3			7.6	5.92	7.7
TMCLKL	HY/2012/08	2017-04-11	Mid-Flood	Cloudy	Small wave	SR10A	Bottom	12.5	3	2		21.4	-		7.66	5.98	7.8
TMCLKL	HY/2012/08	2017-04-11	Mid-Ebb	Cloudy	Small wave	CS4	Surface	1	1	1	12:26	20.8			7.52	6.11	8.7
TMCLKL	HY/2012/08	2017-04-11	Mid-Ebb	Cloudy	Small wave	CS4	Surface	1	1	2	12:26	20.9			7.49	6.17	9
TMCLKL	HY/2012/08	2017-04-11	Mid-Ebb	Cloudy		CS4		8.9	2	1	12:20	20.9			7.44	6.33	8.9
TMCLKL	HY/2012/08	2017-04-11	Mid-Ebb	Cloudy		CS4		8.9	2	2	12:20	20.0			7.41	6.4	9.2
TMCLKL	HY/2012/08	2017-04-11	Mid-Ebb	Cloudy	Small wave	CS4	Bottom	16.8	3	1	12:20	21.1			7.35	6.46	9.3
TMCLKL	HY/2012/08	2017-04-11	Mid-Ebb	Cloudy	Small wave	CS4	Bottom	16.8	3	2	12:20	21.1			7.3	6.54	9.4
TMCLKL	HY/2012/08	2017-04-11	Mid-Ebb	Cloudy		CS6	Surface	10.0	1	- 1		21.3			7.55	6.04	8.6
TMCLKL	HY/2012/08	2017-04-11	Mid-Ebb	Cloudy	Small wave	CS6	Surface	1	1	2		21.3			7.53	6.12	9
TMCLKL	HY/2012/08	2017-04-11	Mid-Ebb	Cloudy	Small wave	CS6		6.8	2	1		21.4			7.5 7.5	5.85	9 8.5
TMCLKL	HY/2012/08	2017-04-11	Mid-Ebb	Cloudy	Small wave	CS6	Middle	6.8	2	2	14:43	21.4	-		7.5 7.47	5.89	8.7
TMCLKL	HY/2012/08	2017-04-11	Mid-Ebb	Cloudy	Small wave	CS6	Bottom	12.6	<u>-</u> 3	1		21.5			7.6	6.18	9.1
TMCLKL	HY/2012/08	2017-04-11	Mid-Ebb	Cloudy	Small wave	CS6	Bottom	12.6	3	2		21.5			7.62	6.23	9.1 9.2
TMCLKL	HY/2012/08	2017-04-11	Mid-Ebb	Cloudy	Small wave	IS12	Surface	1	3 1	<u>-</u> 1		21.5	0.13 8		7.34	5.95	9.2 8
TMCLKL	HY/2012/08	2017-04-11	Mid-Ebb	Cloudy	Small wave	IS12 IS12	Surface	1	1	2		21	o 8.05		7.34 7.3	6.01	o 7.9
TMCLKL	HY/2012/08	2017-04-11	Mid-Ebb	Cloudy		IS12 IS12		1 5.9	2	<u>د</u> 1		21.1			7.39	6.09	7.9 8.3
TMCLKL	HY/2012/08 HY/2012/08	2017-04-11	Mid-Ebb	Cloudy	Small wave	IS12 IS12		5.9 5.9	<u>د</u>	2		21.1			7.39 7.42	6.14	8.3 8.2
		2017-04-11			Small wave				<u> </u>	<u>د</u> 1					7.42 7.51	6.3	8.2 8.4
	HY/2012/08		Mid-Ebb	Cloudy				10.8	ა ი	1		21.3	7.96 °				
	HY/2012/08	2017-04-11	ממב-במט	Cloudy	Small wave	1512	Bottom	10.8	ა	2	13:00	21.3	8	28.7	7.54	6.35	8.8

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	2017-04-11	Mid-Ebb	Cloudy	Small wave	IS13	Surface	1	1	1	13:17	21	8	28.2	7.34	6.13	8.6
TMCLKL	HY/2012/08	2017-04-11	Mid-Ebb	Cloudy	Small wave	IS13	Surface	1	1	2	13:17	20.9	8.03	28.1	7.32	6.17	8.6
TMCLKL	HY/2012/08	2017-04-11	Mid-Ebb	Cloudy	Small wave	IS13	Middle	5.6	2	1	13:17	21	7.94	28.3	7.29	5.89	8.2
TMCLKL	HY/2012/08	2017-04-11	Mid-Ebb	Cloudy	Small wave	IS13	Middle	5.6	2	2	13:17	21	7.99	28.4	7.27	5.84	8.1
TMCLKL	HY/2012/08	2017-04-11	Mid-Ebb	Cloudy	Small wave	IS13	Bottom	10.2	3	1	13:17	21.2	7.98	28.4	7.08	6	8.3
TMCLKL	HY/2012/08	2017-04-11	Mid-Ebb	Cloudy	Small wave	IS13	Bottom	10.2	3	2	13:17	21.3	8.03	28.5	7.11	6.05	8.4
TMCLKL	HY/2012/08	2017-04-11	Mid-Ebb	Cloudy	Small wave	IS14	Surface	1	1	1	12:43	20.9	7.94	28.1	7.44	5.99	7.5
TMCLKL	HY/2012/08	2017-04-11	Mid-Ebb	Cloudy	Small wave	IS14	Surface	1	1	2	12:43	21	7.98	28.2	7.4	6.07	7.7
TMCLKL	HY/2012/08	2017-04-11	Mid-Ebb	Cloudy	Small wave	IS14	Middle	5.7	2	1	12:43	21.1	7.9	28.2	7.35	6.3	7.7
TMCLKL	HY/2012/08	2017-04-11	Mid-Ebb	Cloudy	Small wave	IS14	Middle	5.7	2	2	12:43	21	7.93		7.31	6.24	7.9
TMCLKL	HY/2012/08	2017-04-11	Mid-Ebb	Cloudy	Small wave	IS14	Bottom	10.4	3	1	12:43	21.1	7.92		7.28	6.39	8.1
TMCLKL	HY/2012/08	2017-04-11	Mid-Ebb	Cloudy	Small wave	IS14	Bottom	10.4	3	2	12:43	21.2	7.89		7.25	6.45	7.9
TMCLKL	HY/2012/08	2017-04-11	Mid-Ebb	Cloudy	Small wave	IS15	Surface	1	1	1	13:34	21	8.03		7.4	6.03	8.3
TMCLKL	HY/2012/08	2017-04-11	Mid-Ebb	Cloudy	Small wave	IS15	Surface	1	1	2	13:34	21.2	8.06		7.42	6.1	8.3
TMCLKL	HY/2012/08	2017-04-11	Mid-Ebb	Cloudy	Small wave	IS15	Middle	4.8	2	1	13:34	21.4	8.1		7.34	5.94	8.1
TMCLKL	HY/2012/08	2017-04-11	Mid-Ebb	Cloudy	Small wave	IS15	Middle	4.8	2	2	13:34	21.3	8.07		7.31	5.98	8
TMCLKL	HY/2012/08	2017-04-11	Mid-Ebb	Cloudy	Small wave	IS15		8.6	3	1	13:34	21.4	8.02		7.2	6.15	8.4
TMCLKL	HY/2012/08	2017-04-11	Mid-Ebb	Cloudy	Small wave	IS15		8.6	3	2	13:34	21.4	8.05		7.17	6.22	8.2
TMCLKL	HY/2012/08	2017-04-11	Mid-Ebb	Cloudy	Small wave	SR8	Surface	1	1	1	14:08	21.1	7.9		7.39	5.82	7.3
TMCLKL	HY/2012/08	2017-04-11	Mid-Ebb	Cloudy	Small wave	SR8	Surface	1	1	2	14:08	21.1	7.93		7.42	5.88	7.8
TMCLKL	HY/2012/08	2017-04-11	Mid-Ebb	Cloudy	Small wave	SR8	Middle		2	1	14:08	21.2	1.90	20.0	1.72	0.00	1.0
TMCLKL	HY/2012/08		Mid-Ebb	Cloudy		SR8	Middle		2	2	14:08						
		2017-04-11			Small wave			4 4	2	2	-	21.2	7.02	20.4	7.40	6.07	0 1
TMCLKL	HY/2012/08	2017-04-11	Mid-Ebb	Cloudy	Small wave	SR8		4.4	3		14:08	21.2	7.93		7.49	6.07	8.1
TMCLKL	HY/2012/08	2017-04-11	Mid-Ebb	Cloudy	Small wave	SR8	Bottom	4.4	3	2	14:08	21.1	7.95		7.51	6.02	7.6
TMCLKL	HY/2012/08	2017-04-11	Mid-Ebb	Cloudy	Small wave	SR9	Surface	1	1	1	13:51	21.2	8.07		7.49	5.9	7.3
TMCLKL	HY/2012/08	2017-04-11	Mid-Ebb	Cloudy	Small wave	SR9	Surface	1	1	2	13:51	21.3	8.1	28.1	7.46	5.97	7.7
TMCLKL	HY/2012/08		Mid-Ebb	Cloudy		SR9	Middle		2	1	13:51						
TMCLKL	HY/2012/08	2017-04-11	Mid-Ebb	Cloudy	Small wave	SR9	Middle		2	2	13:51						
TMCLKL	HY/2012/08	2017-04-11	Mid-Ebb	Cloudy	Small wave	SR9		3.2	3	1	-	21.4			7.54	6.13	8
TMCLKL	HY/2012/08	2017-04-11	Mid-Ebb	Cloudy	Small wave	SR9		3.2	3	2	-	21.5	8.05		7.57	6.08	7.9
TMCLKL	HY/2012/08	2017-04-11	Mid-Ebb	Cloudy	Small wave	SR10A	Surface	1	1	1	14:25	21.3			7.49	5.93	7.8
TMCLKL	HY/2012/08	2017-04-11	Mid-Ebb	Cloudy	Small wave	SR10A	Surface	1	1	2	14:25	21.2			7.51	5.99	7.8
TMCLKL	HY/2012/08	2017-04-11	Mid-Ebb	Cloudy	Small wave	SR10A	Middle	6.6	2	1	14:25	21.3	7.99		7.45	5.75	7.6
TMCLKL	HY/2012/08	2017-04-11	Mid-Ebb	Cloudy	Small wave	SR10A	Middle	6.6	2	2	14:25	21.4	8.03	28.3	7.42	5.82	7.6
TMCLKL	HY/2012/08	2017-04-11	Mid-Ebb	Cloudy	Small wave	SR10A	Bottom	12.2	3	1	14:25	21.4	8.02	28.4	7.57	6.09	7.7
TMCLKL	HY/2012/08	2017-04-11	Mid-Ebb	Cloudy	Small wave	SR10A	Bottom	12.2	3	2	14:25	21.3	8.05	28.5	7.59	6.15	8.2
TMCLKL	HY/2012/08	2017-04-13	Mid-Flood	Cloudy	Small wave	CS4	Surface	1	1	1	09:21	21.3	7.81	28.1	7.48	6.05	8.9
TMCLKL	HY/2012/08	2017-04-13	Mid-Flood	Cloudy	Small wave	CS4	Surface	1	1	2	09:21	21.3	7.78	28.2	7.45	6.11	8.9
TMCLKL	HY/2012/08	2017-04-13	Mid-Flood	Cloudy	Small wave	CS4	Middle	9.2	2	1	09:21	21.4	-		7.52	6.34	9.3
TMCLKL	HY/2012/08	2017-04-13	Mid-Flood	Cloudy	Small wave	CS4		9.2	2	2	09:21	21.3	7.86	28.3	7.54	6.28	8.9
TMCLKL	HY/2012/08	2017-04-13	Mid-Flood	Cloudy	Small wave	CS4	Bottom	17.3	3	1	-	21.5			7.59	6.41	9.5
TMCLKL	HY/2012/08	2017-04-13	Mid-Flood	Cloudy	Small wave	CS4	Bottom	17.3	3	2	-	21.5			7.56	6.47	9.1
TMCLKL	HY/2012/08	2017-04-13	Mid-Flood	Cloudy	Small wave	CS6	Surface	1	1	1	-	21.4			7.63	6.11	8.8
TMCLKL	HY/2012/08	2017-04-13	Mid-Flood	Cloudy	Small wave	CS6	Surface	1	1	2	07:30	21.5			7.61	6.04	8.9
TMCLKL	HY/2012/08	2017-04-13	Mid-Flood	Cloudy		CS6	Middle	7	2	1		21.5			7.57	5.93	8.5
TMCLKL	HY/2012/08	2017-04-13	Mid-Flood	Cloudy	Small wave	CS6	Middle	7	2	2	-	21.5			7.59	5.99	8.9
TMCLKL	HY/2012/08	2017-04-13	Mid-Flood	Cloudy	Small wave	CS6	Bottom	, 13	3	1	-	21.6			7.69	6.12	9
TMCLKL	HY/2012/08	2017-04-13	Mid-Flood	Cloudy	Small wave	CS6	Bottom	13	3	2	07:30	21.5			7.66	6.18	9.1
TMCLKL	HY/2012/08	2017-04-13	Mid-Flood	Cloudy	Small wave	IS12	Surface	1	1	1		21.4	7.99		7.39	5.87	7.8
TMCLKL	HY/2012/08	2017-04-13	Mid-Flood	Cloudy	Small wave	IS12 IS12	Surface	1	1	2		21.4			7.42	5.93	8.2
		2017-04-13						6.2	2	<u>-</u> 1					7.42 7.44	6.02	8.2 7.9
	HY/2012/08		Mid-Flood	Cloudy	Small wave	IS12		6.2	2		-	21.3					
	HY/2012/08	2017-04-13	Mid-Flood	Cloudy	Small wave	IS12		6.2	2	4		21.3			7.46	6.08	8.2
TMCLKL	HY/2012/08	2017-04-13	Mid-Flood	Cloudy	Small wave	IS12	Bottom	11.3	ა ი			21.4	7.95		7.66	6.24	8.5
TMCLKL	HY/2012/08	2017-04-13	Mid-Flood	Cloudy	Small wave	IS12	Bottom	11.3	3	2	-	21.4			7.63	6.19	8.3
TMCLKL	HY/2012/08		Mid-Flood	Cloudy		IS13	Surface	1		1		21.2	7.83		7.54	5.74	7.9
TMCLKL	HY/2012/08	2017-04-13	IVIId-Flood	Cloudy	Small wave	1513	Surface	1	1	2	08:38	21.3	7.87	28.1	7.57	5.81	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	2017-04-13	Mid-Flood	Cloudy	Small wave	IS13	Middle	5.8	2	1	08:38	21.4	7.79	28.2	7.63	5.85	8.1
TMCLKL	HY/2012/08	2017-04-13	Mid-Flood	Cloudy	Small wave	IS13	Middle	5.8	2	2	08:38	21.4	7.81	28.2	7.61	5.89	8.1
TMCLKL	HY/2012/08	2017-04-13	Mid-Flood	Cloudy	Small wave	IS13	Bottom	10.6	3	1	08:38	21.4	7.85	28.3	7.62	6.09	8.6
TMCLKL	HY/2012/08	2017-04-13	Mid-Flood	Cloudy	Small wave	IS13	Bottom	10.6	3	2	08:38	21.5	7.83	28.3	7.66	6.03	8.2
TMCLKL	HY/2012/08	2017-04-13	Mid-Flood	Cloudy	Small wave	IS14	Surface	1	1	1	09:17	21.3	7.89	28.1	7.551	5.93	7.3
TMCLKL	HY/2012/08	2017-04-13	Mid-Flood	Cloudy	Small wave	IS14	Surface	1	1	2	09:17	21.3	7.92	28.1	7.53	5.97	7.6
TMCLKL	HY/2012/08	2017-04-13	Mid-Flood	Cloudy	Small wave	IS14	Middle	5.9	2	1	09:17	21.4	7.85	28.2	7.44	6.21	7.5
TMCLKL	HY/2012/08	2017-04-13	Mid-Flood	Cloudy	Small wave	IS14	Middle	5.9	2	2	09:17	21.3	7.87	28.1	7.42	6.16	7.7
TMCLKL	HY/2012/08	2017-04-13	Mid-Flood	Cloudy	Small wave	IS14	Bottom	10.8	3	1	09:17	21.5	7.82	28.3	7.35	6.33	7.9
TMCLKL	HY/2012/08	2017-04-13	Mid-Flood	Cloudy	Small wave	IS14	Bottom	10.8	3	2	09:17	21.4	7.85	28.2	7.38	6.38	7.9
TMCLKL	HY/2012/08	2017-04-13	Mid-Flood	Cloudy	Small wave	IS15	Surface	1	1	1	08:23	21.3	7.98	28.1	7.59	5.88	8.1
TMCLKL	HY/2012/08	2017-04-13	Mid-Flood	Cloudy	Small wave	IS15	Surface	1	1	2	08:23	21.3	7.96	28.1	7.61	5.92	7.9
TMCLKL	HY/2012/08	2017-04-13	Mid-Flood	Cloudy	Small wave	IS15	Middle	5.1	2	1	08:23	21.4	7.85	28.2	7.55	5.81	7.9
TMCLKL	HY/2012/08	2017-04-13	Mid-Flood	Cloudy	Small wave	IS15	Middle	5.1	2	2	08:23	21.3	7.89	28.1	7.58	5.83	7.7
TMCLKL	HY/2012/08	2017-04-13	Mid-Flood	Cloudy	Small wave	IS15	Bottom	9.1	3	1	08:23	21.5	7.97	28.3	7.64	6.07	8.1
TMCLKL	HY/2012/08	2017-04-13	Mid-Flood	Cloudy	Small wave	IS15	Bottom	9.1	3	2	08:23	21.4	8.02	28.2	7.62	6.05	8.1
TMCLKL	HY/2012/08	2017-04-13	Mid-Flood	Cloudy	Small wave	SR8	Surface	1	1	1		21.3	7.85		7.53	5.77	7.5
TMCLKL	HY/2012/08	2017-04-13	Mid-Flood	Cloudy	Small wave	SR8	Surface	1	1	2	08:01	21.2	7.89	28.1	7.55	5.83	7.6
TMCLKL	HY/2012/08	2017-04-13	Mid-Flood	Cloudy	Small wave	SR8	Middle		2	1	08:01						1
TMCLKL	HY/2012/08	2017-04-13	Mid-Flood	Cloudy	Small wave	SR8	Middle		2	2	08:01		1				
TMCLKL	HY/2012/08	2017-04-13	Mid-Flood	Cloudy	Small wave	SR8		4.7	3	1	08:01	21.3	7.92	28.3	7.57	6.01	7.8
TMCLKL	HY/2012/08	2017-04-13	Mid-Flood	Cloudy	Small wave	SR8		4.7	3	2		21.3			7.61	5.96	7.6
TMCLKL	HY/2012/08	2017-04-13	Mid-Flood	Cloudy	Small wave	SR9	Surface	1	1	1		21.2	-		7.58	5.86	7.3
TMCLKL	HY/2012/08	2017-04-13	Mid-Flood	Cloudy	Small wave	SR9	Surface	1	1	2	08:12	21.3	8.03		7.56	5.82	7.5
TMCLKL	HY/2012/08	2017-04-13	Mid-Flood	Cloudy	Small wave	SR9	Middle		2	1	08:12						1
TMCLKL	HY/2012/08	2017-04-13	Mid-Flood	Cloudy	Small wave	SR9	Middle		2	2	08:12						
	HY/2012/08		Mid-Flood	Cloudy		-	Bottom	3.6	3	1	08:12	21.3	8.03	28.3	7.65	6.02	7.9
TMCLKL	HY/2012/08	2017-04-13	Mid-Flood	Cloudy		SR9		3.6	3	2		21.3			7.63	5.97	7.4
TMCLKL	HY/2012/08	2017-04-13	Mid-Flood	Cloudy	Small wave		Surface	1	1	1	07:47				7.59	5.87	7.8
TMCLKL	HY/2012/08	2017-04-13	Mid-Flood	Cloudy	Small wave	SR10A	Surface	1	1	2		21.3			7.57	5.94	7.7
TMCLKL	HY/2012/08	2017-04-13	Mid-Flood	Cloudy	Small wave	SR10A		6.8	2	1		21.4			7.51	5.79	7.4
TMCLKL	HY/2012/08	2017-04-13	Mid-Flood	Cloudy	Small wave	SR10A		6.8	2	2		21.3			7.54	5.86	7.4
TMCLKL	HY/2012/08	2017-04-13	Mid-Flood	Cloudy	Small wave		Bottom	12.6	3	1	07:47				7.64	6.08	7.9
TMCLKL	HY/2012/08	2017-04-13	Mid-Flood	Cloudy			Bottom	12.6	3	2	07:47				7.66	6.02	7.9
TMCLKL	HY/2012/08	2017-04-13	Mid-Ebb	Cloudy	Small wave	CS4	Surface	1	1	1		21.5			7.31	6.35	9.2
TMCLKL	HY/2012/08	2017-04-13	Mid-Ebb	Cloudy	Small wave	CS4	Surface	1	1	2		21.4	-		7.34	6.39	9.1
TMCLKL	HY/2012/08	2017-04-13	Mid-Ebb	Cloudy		CS4		8.9	2	1		21.6			7.46	6.27	8.8
TMCLKL	HY/2012/08	2017-04-13	Mid-Ebb	Cloudy		CS4		8.9	2	2	12:26	21.6	-		7.48	6.24	8.9
TMCLKL	HY/2012/08	2017-04-13	Mid-Ebb	Cloudy		CS4		16.8	3	1		21.7			7.52	6.48	9.1
TMCLKL	HY/2012/08	2017-04-13	Mid-Ebb	Cloudy	Small wave	CS4		16.8	3	2		21.6			7.5	6.4	9.3
TMCLKL	HY/2012/08	2017-04-13	Mid-Ebb	Cloudy	Small wave	CS6	Surface	1	1	1		21.6			7.52	6.18	9
TMCLKL	HY/2012/08	2017-04-13	Mid-Ebb	Cloudy		CS6	Surface	1	1	2		21.6			7.5	6.23	8.9
TMCLKL	HY/2012/08	2017-04-13	Mid-Ebb	Cloudy	Small wave	CS6		6.8	2	- 1		21.0			7.43	6.22	8.9
TMCLKL	HY/2012/08	2017-04-13	Mid-Ebb	Cloudy		CS6		6.8	2	2		21.7			7.41	6.28	9.4
TMCLKL	HY/2012/08	2017-04-13	Mid-Ebb	Cloudy		CS6		12.6	3	1		21.7			7.58	6.31	9.3
TMCLKL	HY/2012/08	2017-04-13	Mid-Ebb	Cloudy		CS6		12.6	3	2		21.7			7.59	6.25	9.3
TMCLKL	HY/2012/08	2017-04-13	Mid-Ebb	Cloudy	Small wave	IS12	Surface	1	1	1		21.5			7.2	6.11	9.3 8.1
TMCLKL	HY/2012/08	2017-04-13	Mid-Ebb	Cloudy	Small wave	IS12 IS12	Surface	1	1	2	12:58	21.5			7.24	6.18	8.5
TMCLKL	HY/2012/08	2017-04-13	Mid-Ebb	Cloudy	Small wave	IS12 IS12	Middle	6	2	1	12:58	21.0			7.36	6.01	8
TMCLKL	HY/2012/08	2017-04-13	Mid-Ebb	Cloudy	Small wave	IS12 IS12		6	2	2	12:58	21.5			7.38	6.06	8
TMCLKL	HY/2012/08	2017-04-13	Mid-Ebb	Cloudy		IS12 IS12		o 10.9	<u>د</u> ع	<u>-</u> 1					7.36 7.46	6.25	o 8.4
TMCLKL	HY/2012/08 HY/2012/08	2017-04-13	Mid-Ebb	Cloudy		IS12 IS12	Bottom	10.9	3	2		21.7 21.6			7.40 7.49	6.32	8.4 8.8
					Small wave			10.9	J 1	<u>-</u> 1							8.3
	HY/2012/08	2017-04-13	Mid-Ebb	Cloudy	Small wave	IS13	Surface	1	1	2		21.4			7.43	5.84	
	HY/2012/08	2017-04-13	Mid-Ebb	Cloudy	Small wave		Surface	1	2	4		21.3			7.44	5.93	8.3 8.6
		2017-04-13	Mid-Ebb	Cloudy			Middle		2		13:13		7.83		7.58	6.12	8.6
INCLKL	HY/2012/08	2017-04-13	IVIIO-EDD	Cloudy	Small wave	1513	Middle	5.6	2	2	13:13	21.5	7.86	28.2	7.59	6.05	8.4

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	2017-04-13	Mid-Ebb	Cloudy	Small wave	IS13	Bottom	10.1	3	1	13:13	21.6	7.94	28.3	7.32	6.23	8.7
TMCLKL	HY/2012/08	2017-04-13	Mid-Ebb	Cloudy	Small wave	IS13	Bottom	10.1	3	2	13:13	21.7	7.95	28.2	7.31	6.29	8.5
TMCLKL	HY/2012/08	2017-04-13	Mid-Ebb	Cloudy	Small wave	IS14	Surface	1	1	1	12:42	21.4	8.03	28	7.48	5.86	7.1
TMCLKL	HY/2012/08	2017-04-13	Mid-Ebb	Cloudy	Small wave	IS14	Surface	1	1	2	12:42	21.4	8.06	27.9	7.45	5.92	7.4
TMCLKL	HY/2012/08	2017-04-13	Mid-Ebb	Cloudy	Small wave	IS14	Middle	5.7	2	1	12:42	21.5	8.12	28.1	7.35	6.34	7.8
TMCLKL	HY/2012/08	2017-04-13	Mid-Ebb	Cloudy	Small wave	IS14	Middle	5.7	2	2	12:42	21.4	8.13	28	7.34	6.38	8.1
TMCLKL	HY/2012/08	2017-04-13	Mid-Ebb	Cloudy	Small wave	IS14	Bottom	10.4	3	1	12:42	21.6	7.92	28.2	7.21	6.42	8
TMCLKL	HY/2012/08	2017-04-13	Mid-Ebb	Cloudy	Small wave	IS14	Bottom	10.4	3	2	12:42	21.5	7.95	28.1	7.19	6.47	8.2
TMCLKL	HY/2012/08	2017-04-13	Mid-Ebb	Cloudy	Small wave	IS15	Surface	1	1	1	13:28	21.5	7.92	28	7.39	6.28	8.5
TMCLKL	HY/2012/08	2017-04-13	Mid-Ebb	Cloudy	Small wave	IS15	Surface	1	1	2	13:28	21.4	7.94	28	7.42	6.22	8.5
TMCLKL	HY/2012/08	2017-04-13	Mid-Ebb	Cloudy	Small wave	IS15	Middle	4.9	2	1	13:28	21.4	8.01	28	7.33	6.13	8.4
TMCLKL	HY/2012/08	2017-04-13	Mid-Ebb	Cloudy	Small wave	IS15	Middle	4.9	2	2	13:28	21.5	8	28.1	7.3	6.18	8.1
TMCLKL	HY/2012/08	2017-04-13	Mid-Ebb	Cloudy	Small wave	IS15	Bottom	8.7	3	1	13:28	21.6	8.07	28.2	7.53	6.34	8.4
TMCLKL	HY/2012/08	2017-04-13	Mid-Ebb	Cloudy	Small wave	IS15	Bottom	8.7	3	2	13:28	21.5	8.04	28.1	7.56	6.41	8.8
TMCLKL	HY/2012/08	2017-04-13	Mid-Ebb	Cloudy	Small wave	SR8	Surface	1	1	1	13:58	21.4	8.02	28	7.45	6.12	7.8
TMCLKL	HY/2012/08	2017-04-13	Mid-Ebb	Cloudy	Small wave	SR8	Surface	1	1	2	13:58	21.4	8.03	27.9	7.47	6.08	7.9
TMCLKL	HY/2012/08	2017-04-13	Mid-Ebb	Cloudy	Small wave	SR8	Middle		2	1	13:58						
TMCLKL	HY/2012/08	2017-04-13	Mid-Ebb	Cloudy	Small wave	SR8	Middle		2	2	13:58						
TMCLKL	HY/2012/08	2017-04-13	Mid-Ebb	Cloudy	Small wave	SR8	Bottom	4.2	3	1	13:58	21.4	8.09	28.1	7.32	5.95	7.7
TMCLKL	HY/2012/08	2017-04-13	Mid-Ebb	Cloudy	Small wave	SR8	Bottom	4.2	3	2	13:58	21.5	8.08	28.1	7.36	6.02	7.7
TMCLKL	HY/2012/08	2017-04-13	Mid-Ebb	Cloudy	Small wave	SR9	Surface	1	1	1	13:44	21.4	7.95	28	7.34	6.02	7.5
TMCLKL	HY/2012/08	2017-04-13	Mid-Ebb	Cloudy	Small wave	SR9	Surface	1	1	2	13:44	21.5	7.91	28.1	7.38	6.09	7.6
TMCLKL	HY/2012/08	2017-04-13	Mid-Ebb	Cloudy	Small wave	SR9	Middle		2	1	13:44						
TMCLKL	HY/2012/08	2017-04-13	Mid-Ebb	Cloudy	Small wave	SR9	Middle		2	2	13:44						
TMCLKL	HY/2012/08	2017-04-13	Mid-Ebb	Cloudy	Small wave	SR9	Bottom	3.2	3	1	13:44	21.4	7.97	28.1	7.45	6.24	7.8
TMCLKL	HY/2012/08	2017-04-13	Mid-Ebb	Cloudy	Small wave	SR9	Bottom	3.2	3	2	13:44	21.4	7.99	28.1	7.48	6.21	8.1
TMCLKL	HY/2012/08	2017-04-13	Mid-Ebb	Cloudy	Small wave	SR10A	Surface	1	1	1	14:12	21.5	7.86	28.1	7.23	6.09	8.1
TMCLKL	HY/2012/08	2017-04-13	Mid-Ebb	Cloudy	Small wave	SR10A	Surface	1	1	2	14:12	21.4	7.84	28	7.34	6.03	8
TMCLKL	HY/2012/08	2017-04-13	Mid-Ebb	Cloudy	Small wave	SR10A	Middle	6.6	2	1	14:12	21.6	7.91	28.2	7.48	5.92	7.6
TMCLKL	HY/2012/08	2017-04-13	Mid-Ebb	Cloudy	Small wave	SR10A	Middle	6.6	2	2	14:12	21.5	7.94	28.1	7.46	5.97	7.5
TMCLKL	HY/2012/08	2017-04-13	Mid-Ebb	Cloudy	Small wave	SR10A	Bottom	12.1	3	1		21.7	7.99	28.3	7.59	6.17	8.1
TMCLKL	HY/2012/08	2017-04-13	Mid-Ebb	Cloudy	Small wave	1	Bottom	12.1	3	2		21.6			7.55	6.13	7.9
TMCLKL	HY/2012/08	2017-04-15	Mid-Flood	Cloudy	Small wave	CS4	Surface	1	1	1	10:16	21.9	7.76	28.5	7.43	6.02	8.8
TMCLKL	HY/2012/08	2017-04-15	Mid-Flood	Cloudy	Small wave	CS4	Surface	1	1	2	10:16	21.8	7.8	28.6	7.4	6.08	8.8
TMCLKL	HY/2012/08	2017-04-15	Mid-Flood	Cloudy	Small wave	CS4	Middle	9	2	1		21.8		28.7	7.35	6.24	9
TMCLKL	HY/2012/08	2017-04-15	Mid-Flood	Cloudy	Small wave	CS4	Middle	9	2	2		21.9		28.8	7.32	6.31	8.9
TMCLKL	HY/2012/08	2017-04-15	Mid-Flood	Cloudy	Small wave	CS4	Bottom	17	3	1	10:16	21.9		28.8	7.26	6.37	9.4
TMCLKL	HY/2012/08	2017-04-15	Mid-Flood	Cloudy	Small wave	CS4	Bottom	17	3	2	10:16	22		28.9	7.21	6.45	9.6
TMCLKL	HY/2012/08		Mid-Flood	Cloudy		CS6	Surface	1	1	1		21.6			7.46	5.95	8.8
TMCLKL	HY/2012/08	2017-04-15	Mid-Flood	Cloudy	Small wave	CS6	Surface	1	1	2	07:59	21.5	8.02	28.4	7.44	6.03	8.8
TMCLKL	HY/2012/08	2017-04-15	Mid-Flood	Cloudy	Small wave	CS6		6.9	2	1		21.6		28.5	7.41	5.76	8.3
TMCLKL	HY/2012/08	2017-04-15	Mid-Flood	Cloudy		CS6		6.9	2	2		21.7		28.4	7.38	5.8	8.5
TMCLKL	HY/2012/08	2017-04-15	Mid-Flood	Cloudy	Small wave	CS6	Bottom	12.8	3	1		21.8	8	28.5	7.51	6.09	9.1
TMCLKL	HY/2012/08	2017-04-15	Mid-Flood	Cloudy		CS6	Bottom	12.8	3	2		21.7	8.04	28.6	7.53	6.14	9.1
	HY/2012/08		Mid-Flood	Cloudy		IS12	Surface	1	1	1		21.7		28.6	7.25	5.86	8
	HY/2012/08		Mid-Flood	Cloudy		IS12	Surface	1	1	2		21.6		28.7	7.21	5.92	8.2
TMCLKL	HY/2012/08	2017-04-15	Mid-Flood	Cloudy	Small wave	IS12		5.8	2	1		21.7		28.7	7.3	6	8
TMCLKL	HY/2012/08	2017-04-15	Mid-Flood	Cloudy	Small wave	IS12	Middle	5.8	2	2		21.8			7.33	6.05	8.4
	HY/2012/08	2017-04-15	Mid-Flood	Cloudy	Small wave	IS12	Bottom	10.6	3	1		21.8			7.42	6.21	8.3
TMCLKL	HY/2012/08	2017-04-15	Mid-Flood	Cloudy		IS12		10.6	3	2		21.9			7.45	6.26	8.5
TMCLKL	HY/2012/08		Mid-Flood	Cloudy		IS13	Surface	1	1	1		21.7		28.5	7.25	6.04	8.3
	HY/2012/08	2017-04-15	Mid-Flood	Cloudy		IS13	Surface	1	1	2		21.8		28.4	7.23	6.08	8.4
TMCLKL	HY/2012/08	2017-04-15	Mid-Flood	Cloudy	Small wave	IS13		5.7	2	1		21.8			7.2	5.8	8.2
	HY/2012/08	2017-04-15	Mid-Flood	Cloudy	Small wave	IS13		5.7	2	2		21.9			7.18	5.75	7.8
			Mid-Flood	Cloudy				10.4	3	1	09:24		7.89		6.99	5.91	8.2
TMCLKL								10.4	۲ ۰		09:24	1		28.8	0.00		

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	2017-04-15	Mid-Flood	Cloudy	Small wave	IS14	Surface	1	1	1	09:58	21.7	7.85	28.7	7.35	5.9	7.5
TMCLKL	HY/2012/08	2017-04-15	Mid-Flood	Cloudy	Small wave	IS14	Surface	1	1	2	09:58	21.8	7.89	28.8	7.31	5.98	7.5
TMCLKL	HY/2012/08	2017-04-15	Mid-Flood	Cloudy	Small wave	IS14	Middle	5.9	2	1	09:58	21.8	7.81	28.9	7.26	6.21	7.8
TMCLKL	HY/2012/08	2017-04-15	Mid-Flood	Cloudy	Small wave	IS14	Middle	5.9	2	2	09:58	21.9	7.84	28.8	7.22	6.15	7.5
TMCLKL	HY/2012/08	2017-04-15	Mid-Flood	Cloudy	Small wave	IS14	Bottom	10.8	3	1	09:58	21.9	7.83	28.9	7.19	6.3	7.7
TMCLKL	HY/2012/08	2017-04-15	Mid-Flood	Cloudy	Small wave	IS14	Bottom	10.8	3	2	09:58	21.8	7.8	29	7.16	6.36	8
TMCLKL	HY/2012/08	2017-04-15	Mid-Flood	Cloudy	Small wave	IS15	Surface	1	1	1	09:07	21.6	7.94	28.5	7.31	5.94	8.1
TMCLKL	HY/2012/08	2017-04-15	Mid-Flood	Cloudy	Small wave	IS15	Surface	1	1	2	09:07	21.7	7.93	28.6	7.33	6.01	8.2
TMCLKL	HY/2012/08	2017-04-15	Mid-Flood	Cloudy	Small wave	IS15	Middle	4.9	2	1	09:07	21.7	8.01	28.6	7.25	5.85	8
TMCLKL	HY/2012/08	2017-04-15	Mid-Flood	Cloudy	Small wave	IS15	Middle	4.9	2	2	09:07	21.8	8.02	28.7	7.22	5.89	7.8
TMCLKL	HY/2012/08	2017-04-15	Mid-Flood	Cloudy	Small wave	IS15	Bottom	8.8	3	1	09:07	21.9	7.93	28.8	7.11	6.06	8.1
TMCLKL	HY/2012/08	2017-04-15	Mid-Flood	Cloudy	Small wave	IS15	Bottom	8.8	3	2	09:07	21.8	7.96	28.7	7.08	6.13	8.4
TMCLKL	HY/2012/08	2017-04-15	Mid-Flood	Cloudy	Small wave	SR8	Surface	1	1	1	08:33	21.6	7.81	28.5	7.3	5.73	7.2
TMCLKL	HY/2012/08	2017-04-15	Mid-Flood	Cloudy	Small wave	SR8	Surface	1	1	2	08:33	21.7	7.84	28.6	7.33	5.79	7.5
TMCLKL	HY/2012/08	2017-04-15	Mid-Flood	Cloudy	Small wave	SR8	Middle		2	1	08:33						
TMCLKL	HY/2012/08	2017-04-15	Mid-Flood	Cloudy	Small wave	SR8	Middle		2	2	08:33						
TMCLKL	HY/2012/08	2017-04-15	Mid-Flood	Cloudy	Small wave	SR8	Bottom	4.6	3	1	08:33	21.7	7.84	28.6	7.4	5.98	7.7
TMCLKL	HY/2012/08	2017-04-15	Mid-Flood	Cloudy	Small wave	SR8		4.6	3	2	08:33	21.6	7.86	28.7	7.42	5.93	7.5
TMCLKL	HY/2012/08	2017-04-15	Mid-Flood	Cloudy	Small wave	SR9	Surface	1	1	1	08:50	21.6	7.98	28.5	7.4	5.81	7.4
TMCLKL	HY/2012/08	2017-04-15	Mid-Flood	Cloudy	Small wave	SR9	Surface	1	1	2	08:50	21.5	8.01	28.4	7.37	5.88	7.7
TMCLKL	HY/2012/08	2017-04-15	Mid-Flood	Cloudy	Small wave	SR9	Middle		2	1	08:50						
TMCLKL	HY/2012/08	2017-04-15	Mid-Flood	Cloudy	Small wave	SR9	Middle		2	2	08:50						
TMCLKL	HY/2012/08	2017-04-15	Mid-Flood	Cloudy	Small wave	SR9	Bottom	3.4	3	1		21.6	7.93	28.5	7.45	6.04	7.9
TMCLKL	HY/2012/08	2017-04-15	Mid-Flood	Cloudy	Small wave	SR9		3.4	3	2	08:50	21.7	7.96	28.6	7.48	5.99	7.9
TMCLKL	HY/2012/08	2017-04-15	Mid-Flood	Cloudy	Small wave	SR10A	Surface	1	1	1	08:16	21.4	7.96	28.4	7.4	5.84	7.6
	HY/2012/08	2017-04-15	Mid-Flood	Cloudy	Small wave	SR10A	Surface	1	1	2	08:16	21.5		28.5	7.42	5.9	7.8
	HY/2012/08		Mid-Flood	Cloudy				6.7	2	1	08:16		7.9	28.6	7.36	5.66	7.4
	HY/2012/08	2017-04-15	Mid-Flood	Cloudy	Small wave			6.7	2	2		21.6		28.5	7.33	5.73	7.2
TMCLKL	HY/2012/08	2017-04-15	Mid-Flood	Cloudy	Small wave	SR10A	Bottom	12.4	3	1		21.6		28.6	7.48	6	7.6
TMCLKL	HY/2012/08	2017-04-15	Mid-Flood	Cloudy	Small wave	SR10A	Bottom	12.4	3	2		21.7		28.7	7.5	6.06	7.9
TMCLKL	HY/2012/08	2017-04-15	Mid-Ebb	Cloudy	Small wave	CS4	Surface	1	1	1		21.8		28.8	7.32	5.92	8.5
	HY/2012/08	2017-04-15	Mid-Ebb	Cloudy		CS4	Surface	1	1	2		21.9		28.7	7.28	5.96	8.4
	HY/2012/08	2017-04-15	Mid-Ebb	Cloudy		CS4		8.7	2	1		21.8	7.82	28.9	7.37	6.43	9.4
TMCLKL	HY/2012/08	2017-04-15	Mid-Ebb	Cloudy		CS4		8.7	2	2		21.7		28.8	7.34	6.39	9.4
	HY/2012/08	2017-04-15	Mid-Ebb	Cloudy		CS4		16.4	3	1		21.7		29	7.26	6.57	9.3
TMCLKL	HY/2012/08	2017-04-15	Mid-Ebb	Cloudy	Small wave	CS4		16.4	3	2		21.8		29	7.22	6.5	9.5
	HY/2012/08	2017-04-15	Mid-Ebb	Cloudy	Small wave	CS6	Surface	1	1	1	15:23	22		28.9	7.19	6.07	9
	HY/2012/08	2017-04-15	Mid-Ebb	Cloudy	Small wave	CS6	Surface	1	1	2		21.9		28.9	7.15	6.01	8.9
	HY/2012/08	2017-04-15	Mid-Ebb	Cloudy		CS6		6.6	2	1		21.8	-	29	7.15	6.18	9
	HY/2012/08	2017-04-15	Mid-Ebb	Cloudy	Small wave	CS6		6.6	2	2		21.8		29	7.11	6.14	8.9
	HY/2012/08	2017-04-15	Mid-Ebb	Cloudy	Small wave	CS6	Bottom	12.2	3	1		21.8		28.9	7.22	6.26	9.3
	HY/2012/08	2017-04-15	Mid-Ebb	Cloudy		CS6	Bottom	12.2	3	2		21.8		29	7.19	6.21	9.3
	HY/2012/08	2017-04-15	Mid-Ebb	Cloudy	Small wave	IS12	Surface	1	1	1		21.9		28.7	7.21	6.02	8
	HY/2012/08	2017-04-15	Mid-Ebb	Cloudy	Small wave	IS12	Surface	1	1	2	14:06	22		28.7	7.25	6.06	8
	HY/2012/08	2017-04-15	Mid-Ebb	Cloudy		IS12		5.4	2	1		21.8		28.9	7.36	6.34	8.5
	HY/2012/08	2017-04-15	Mid-Ebb	Cloudy		IS12		5.4	2	2		21.9		28.9	7.32	6.3	8.3
	HY/2012/08	2017-04-15	Mid-Ebb	Cloudy	Small wave	IS12		9.8	3	1		21.8		28.9	7.34	6.49	8.9
	HY/2012/08	2017-04-15	Mid-Ebb	Cloudy	Small wave	IS12		9.8	3	2		21.8		28.9	7.37	6.45	8.5
	HY/2012/08	2017-04-15	Mid-Ebb	Cloudy	Small wave	IS13	Surface	1	1	1	14:23	22		28.9	7.17	6.03	8.6
	HY/2012/08	2017-04-15	Mid-Ebb	Cloudy	Small wave	IS13	Surface	1	1	2	14:23	22		28.8	7.19	6.06	8.3
	HY/2012/08	2017-04-15	Mid-Ebb	Cloudy		IS13		5.4	2	1		21.8		28.9	7.14	6.41	9.1
	HY/2012/08	2017-04-15	Mid-Ebb	Cloudy	Small wave	IS13		5.4	2	2		21.0		29	7.14	6.36	8.6
	HY/2012/08	2017-04-13	Mid-Ebb	Cloudy	Small wave	IS13 IS13		9.8	3	1		21.9		29	7.1	6.33	9
	HY/2012/08	2017-04-15	Mid-Ebb	Cloudy	Small wave	IS13 IS13		9.8 9.8	3	2		21.9		29	7.25	6.29	9 8.8
TWOLKE		2017-04-15	Mid-Ebb	Cloudy			Surface	1	1	1		21.9	7.82		7.12	6.07	7.9
TMCLKL	HY/2012/08																

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	2017-04-15	Mid-Ebb	Cloudy	Small wave	IS14	Middle	5.1	2	1	13:50	21.8	7.85	28.8	7.07	6.14	7.7
TMCLKL	HY/2012/08	2017-04-15	Mid-Ebb	Cloudy	Small wave	IS14	Middle	5.1	2	2	13:50	21.7	7.84	28.9	7.04	6.1	7.7
TMCLKL	HY/2012/08	2017-04-15	Mid-Ebb	Cloudy	Small wave	IS14	Bottom	10.2	3	1	13:50	21.7	7.86	28.9	7.3	6.34	7.9
TMCLKL	HY/2012/08	2017-04-15	Mid-Ebb	Cloudy	Small wave	IS14	Bottom	10.2	3	2	13:50	21.7	7.88	29	7.27	6.3	8
TMCLKL	HY/2012/08	2017-04-15	Mid-Ebb	Cloudy	Small wave	IS15	Surface	1	1	1	14:41	22	7.85	28.8	7.34	5.93	7.8
TMCLKL	HY/2012/08	2017-04-15	Mid-Ebb	Cloudy	Small wave	IS15	Surface	1	1	2	14:41	22	7.84	28.8	7.31	5.9	7.9
TMCLKL	HY/2012/08	2017-04-15	Mid-Ebb	Cloudy	Small wave	IS15	Middle	4.6	2	1	14:41	21.8	7.87	28.9	7.26	6.52	8.9
TMCLKL	HY/2012/08	2017-04-15	Mid-Ebb	Cloudy	Small wave	IS15	Middle	4.6	2	2	14:41	21.7	7.86	28.8	7.29	6.56	8.7
TMCLKL	HY/2012/08	2017-04-15	Mid-Ebb	Cloudy	Small wave	IS15	Bottom	8.2	3	1	14:41	21.8	7.88	29	7.37	6.46	8.9
TMCLKL	HY/2012/08	2017-04-15	Mid-Ebb	Cloudy	Small wave	IS15	Bottom	8.2	3	2	14:41	21.9	7.88	29	7.34	6.4	8.6
TMCLKL	HY/2012/08	2017-04-15	Mid-Ebb	Cloudy	Small wave	SR8	Surface	1	1	1	15:10	22	7.92	29	7.34	6.02	7.8
TMCLKL	HY/2012/08	2017-04-15	Mid-Ebb	Cloudy	Small wave	SR8	Surface	1	1	2	15:10	22	7.93	29	7.37	6.06	7.9
TMCLKL	HY/2012/08	2017-04-15	Mid-Ebb	Cloudy	Small wave	SR8	Middle		2	1	15:10						
TMCLKL	HY/2012/08	2017-04-15	Mid-Ebb	Cloudy	Small wave	SR8	Middle		2	2	15:10						
TMCLKL	HY/2012/08	2017-04-15	Mid-Ebb	Cloudy	Small wave	SR8	Bottom	4.2	3	1	15:10	21.9	7.94	29	7.38	6.17	7.8
TMCLKL	HY/2012/08	2017-04-15	Mid-Ebb	Cloudy	Small wave	SR8	Bottom	4.2	3	2	15:10	21.8	7.94	29	7.34	6.15	7.8
TMCLKL	HY/2012/08	2017-04-15	Mid-Ebb	Cloudy	Small wave	SR9	Surface	1	1	1	14:57	22	7.9	28.9	7.42	5.77	7.6
TMCLKL	HY/2012/08	2017-04-15	Mid-Ebb	Cloudy	Small wave	SR9	Surface	1	1	2	14:57	21.9	7.91		7.45	5.71	7.4
TMCLKL	HY/2012/08	2017-04-15	Mid-Ebb	Cloudy	Small wave	SR9	Middle		2	1	14:57						
TMCLKL	HY/2012/08	2017-04-15	Mid-Ebb	Cloudy	Small wave	SR9	Middle		2	2	14:57						
TMCLKL	HY/2012/08	2017-04-15	Mid-Ebb	Cloudy	Small wave	SR9	Bottom	3.2	3	1	14:57	21.8	7.93	29	7.36	6.06	7.6
TMCLKL	HY/2012/08	2017-04-15	Mid-Ebb	Cloudy	Small wave	SR9	Bottom	3.2	3	2		21.9	7.93	29	7.32	6.09	7.7
TMCLKL	HY/2012/08	2017-04-15	Mid-Ebb	Cloudy	Small wave	SR10A	Surface	1	1	1	15:50	22	7.94	28.8	7.39	5.62	7.1
TMCLKL	HY/2012/08	2017-04-15	Mid-Ebb	Cloudy	Small wave	SR10A	Surface	1	1	2	15:50	22	7.95		7.35	5.66	7.5
TMCLKL	HY/2012/08	2017-04-15	Mid-Ebb	Cloudy	Small wave	SR10A	Middle	6.3	2	1	15:50	21.8	7.98	28.9	7.47	5.93	7.8
TMCLKL	HY/2012/08	2017-04-15	Mid-Ebb	Cloudy	Small wave	SR10A	Middle	6.3	2	2	15:50	21.9	7.97	29	7.42	5.97	7.5
TMCLKL	HY/2012/08		Mid-Ebb	Cloudy			Bottom		3	1		21.9	7.95		7.55	5.89	7.4
TMCLKL	HY/2012/08	2017-04-15	Mid-Ebb	Cloudy				11.6	3	2		21.9		29	7.58	5.86	7.7
TMCLKL	HY/2012/08	2017-04-18	Mid-Flood	Cloudy	Small wave	CS4	Surface	1	1	1	-	22.5			7.52	6.18	9
TMCLKL	HY/2012/08	2017-04-18	Mid-Flood	Cloudy	Small wave	CS4	Surface	1	1	2		22.6	7.94	28.3	7.56	6.14	8.7
TMCLKL	HY/2012/08	2017-04-18	Mid-Flood	Cloudy	Small wave	CS4		9.3	2	1		22.6	7.8		7.6	6.3	9.1
TMCLKL	HY/2012/08	2017-04-18	Mid-Flood	Cloudy		CS4		9.3	2	2	11:12	22.5			7.56	6.36	9.2
TMCLKL	HY/2012/08	2017-04-18	Mid-Flood	Cloudy		CS4	Bottom	17.6	3	1		22.5			7.6	6.48	9.5
TMCLKL	HY/2012/08	2017-04-18	Mid-Flood	Cloudy		CS4		17.6	3	2		22.5			7.56	6.5	9.2
TMCLKL	HY/2012/08	2017-04-18	Mid-Flood	Cloudy		CS4 CS6	Surface	17.0	1	1		22.5		28.2	7.66	6.26	9.1
TMCLKL	HY/2012/08	2017-04-18	Mid-Flood	Cloudy	Small wave	CS6	Surface	1	1	2	-	22.0			7.62	6.22	9.1
TMCLKL	HY/2012/08	2017-04-18	Mid-Flood	Cloudy		CS6	Middle	7.1	2	2		22.5			7.53	6.03	8.6
	HY/2012/08					CS6	Middle		2	2			0.03		7.55	6.06	
TMCLKL TMCLKL	HY/2012/08	2017-04-18 2017-04-18	Mid-Flood Mid-Flood	Cloudy Cloudy		CS6		7.1 13.2	<u>د</u> ع	<u>د</u> 1		22.6	o 8.05		7.55 7.68	6.18	8.9 9
TMCLKL	HY/2012/08	2017-04-18	Mid-Flood	Cloudy		CS6		13.2	3	2	-	22.4 22.3			7.64	6.22	9 8.9
TMCLKL	HY/2012/08	2017-04-18	Mid-Flood	Cloudy	Small wave	US6 IS12	Surface	13.1	J 1	<u>د</u> 1	10:39	22.3	8.06 7.94	28.3 28.3	7.04 7.44	6.06	8.9 8.3
					Small wave	IS12 IS12		1	1	2					7.44 7.46		
	HY/2012/08 HY/2012/08	2017-04-18	Mid-Flood	Cloudy	Small wave		Surface Middle	1	2	<u>د</u> 1	10:39	22.6			7.46 7.4	6.02 6.16	8 8.2
		2017-04-18	Mid-Flood	Cloudy	Small wave	IS12		6.3	2 2	2	10:39	22.5				6.16 6.1	
	HY/2012/08	2017-04-18	Mid-Flood	Cloudy		IS12		6.3	2	4	10:39	22.5			7.36	6.1	8.1 8.2
	HY/2012/08	2017-04-18	Mid-Flood	Cloudy		IS12		11.6	ა ა		10:39	22.5			7.72	6.28	8.3 8.5
	HY/2012/08	2017-04-18	Mid-Flood	Cloudy	Small wave	IS12	Bottom	11.6	3 4	2	10:39	22.5			7.68	6.32	8.5
TMCLKL	HY/2012/08	2017-04-18	Mid-Flood	Cloudy	Small wave	IS13	Surface	1	1	1	10:25	22.6		28.3	7.56	6.08	8.4
TMCLKL	HY/2012/08	2017-04-18	Mid-Flood	Cloudy	Small wave	IS13	Surface	1	1	2	10:25	22.6			7.6	6.12	8.4
TMCLKL	HY/2012/08	2017-04-18	Mid-Flood	Cloudy	Small wave	IS13		5.9	2	1	10:25	22.6			7.64	5.92	8.3
TMCLKL	HY/2012/08	2017-04-18	Mid-Flood	Cloudy	Small wave	IS13		5.9	2	2	10:25	22.5	7.8		7.6	5.96	8.4
TMCLKL	HY/2012/08	2017-04-18	Mid-Flood	Cloudy		IS13		10.8	3	1	10:25	22.6			7.53	6.12	8.3
TMCLKL	HY/2012/08	2017-04-18	Mid-Flood	Cloudy	Small wave	IS13	Bottom	10.8	3	2	10:25	22.5			7.56	6.16	8.6
TMCLKL	HY/2012/08	2017-04-18	Mid-Flood	Cloudy	Small wave	IS14	Surface	1	1	1	10:54	22.6	7.91		7.53	6.02	7.7
TMCLKL	HY/2012/08	2017-04-18	Mid-Flood	Cloudy	Small wave	IS14	Surface	1	1	2	10:54	22.6			7.55	6.04	7.4
TMCLKL	HY/2012/08		Mid-Flood	Cloudy				6	2	1	10:54		7.88		7.56	6.2	7.6
TMCLKL	HY/2012/08	2017-04-18	Mid-Flood	Cloudy	Small wave	IS14	Middle	6	2	2	10:54	22.5	7.87	28.3	7.6	6.24	7.9

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	2017-04-18	Mid-Flood	Cloudy	Small wave	IS14	Bottom	11	3	1	10:54	22.5	7.84	28.2	7.48	6.35	7.9
TMCLKL	HY/2012/08	2017-04-18	Mid-Flood	Cloudy	Small wave	IS14	Bottom	11	3	2	10:54	22.5	7.86	28.3	7.52	6.36	7.8
TMCLKL	HY/2012/08	2017-04-18	Mid-Flood	Cloudy	Small wave	IS15	Surface	1	1	1	10:10	22.6	7.99	28.3	7.66	6.03	8.2
TMCLKL	HY/2012/08	2017-04-18	Mid-Flood	Cloudy	Small wave	IS15	Surface	1	1	2	10:10	22.6	8.02	28.2	7.68	6.07	8
TMCLKL	HY/2012/08	2017-04-18	Mid-Flood	Cloudy	Small wave	IS15	Middle	5.2	2	1	10:10	22.5	7.88	28.3	7.56	6.06	8.4
TMCLKL	HY/2012/08	2017-04-18	Mid-Flood	Cloudy	Small wave	IS15	Middle	5.2	2	2	10:10	22.6	7.86	28.3	7.54	6.1	8.5
TMCLKL	HY/2012/08	2017-04-18	Mid-Flood	Cloudy	Small wave	IS15	Bottom	9.4	3	1	10:10	22.5	7.95	28.2	7.6	6.14	8.5
TMCLKL	HY/2012/08	2017-04-18	Mid-Flood	Cloudy	Small wave	IS15	Bottom	9.4	3	2	10:10	22.4	7.92	28.3	7.62	6.18	8.2
TMCLKL	HY/2012/08	2017-04-18	Mid-Flood	Cloudy	Small wave	SR8	Surface	1	1	1	09:48	22.6	7.87	28.2	7.5	6.04	7.9
TMCLKL	HY/2012/08	2017-04-18	Mid-Flood	Cloudy	Small wave	SR8	Surface	1	1	2	09:48	22.5	7.84	28.2	7.52	6	7.9
TMCLKL	HY/2012/08	2017-04-18	Mid-Flood	Cloudy	Small wave	SR8	Middle		2	1	09:48						
TMCLKL	HY/2012/08	2017-04-18	Mid-Flood	Cloudy	Small wave	SR8	Middle		2	2	09:48						
TMCLKL	HY/2012/08	2017-04-18	Mid-Flood	Cloudy	Small wave	SR8	Bottom	4.8	3	1	09:48	22.5	7.9	28.3	7.63	6.18	7.9
TMCLKL	HY/2012/08	2017-04-18	Mid-Flood	Cloudy	Small wave	SR8		4.8	3	2	09:48	22.6	7.92	28.3	7.62	6.16	7.8
TMCLKL	HY/2012/08	2017-04-18	Mid-Flood	Cloudy	Small wave	SR9	Surface	1	1	1	09:59	22.6	7.96	28.3	7.64	5.88	7.7
TMCLKL	HY/2012/08	2017-04-18	Mid-Flood	Cloudy	Small wave	SR9	Surface	1	1	2	09:59	22.5		28.3	7.66	5.84	7.6
TMCLKL	HY/2012/08	2017-04-18	Mid-Flood	Cloudy	Small wave	SR9	Middle		2	1	09:59	1	1	1	1	l l	1
TMCLKL	HY/2012/08	2017-04-18	Mid-Flood	Cloudy	Small wave	SR9	Middle		2	2	09:59	1	1	1	1	1	1
TMCLKL	HY/2012/08	2017-04-18	Mid-Flood	Cloudy	Small wave	SR9	-	3.8	3	1	09:59	22.6	8.02	28.3	7.6	6.08	8
TMCLKL	HY/2012/08	2017-04-18	Mid-Flood	Cloudy	Small wave	SR9	Bottom	3.8	3	2	09:59	22.5	8.04	28.3	7.56	6.12	7.9
TMCLKL	HY/2012/08	2017-04-18	Mid-Flood	Cloudy	Small wave	-	Surface	1	1	1	09:34	22.5	7.93	28.3	7.64	6.03	7.8
TMCLKL	HY/2012/08	2017-04-18	Mid-Flood	Cloudy	Small wave		Surface	1	1	2	09:34	22.5	7.9	28.2	7.62	6	7.8
TMCLKL	HY/2012/08	2017-04-18	Mid-Flood	Cloudy	Small wave	SR10A		6.9	2	1	09:34	22.5	7.86	28.3	7.54	5.9	7.6
TMCLKL	HY/2012/08	2017-04-18	Mid-Flood	Cloudy	Small wave	SR10A	Middle	6.9	2	2	09:34	22.6	7.89	28.3	7.52	5.86	7.4
TMCLKL	HY/2012/08	2017-04-18	Mid-Flood	Cloudy	Small wave		Bottom	12.8	3	1	09:34	22.3	7.88	28.2	7.62	6.03	8
TMCLKL	HY/2012/08	2017-04-18	Mid-Flood	Cloudy	Small wave		Bottom	12.8	3	2	09:34	22.4		28.3	7.6	6.06	7.8
TMCLKL	HY/2012/08	2017-04-18	Mid-Ebb	Cloudy		CS4	Surface		1	1		22.7		28.1	7.73	6.4	9
TMCLKL	HY/2012/08	2017-04-18	Mid-Ebb	Cloudy		CS4	Surface	1	1	2	15:42	22.8		28.2	7.72	6.42	9.3
TMCLKL	HY/2012/08	2017-04-18	Mid-Ebb	Cloudy		CS4		9.1	2	1	15:42	22.7		28.2	7.68	6.5	9.4
TMCLKL	HY/2012/08	2017-04-18	Mid-Ebb	Cloudy	Small wave	CS4		9.1	2	2	15:42	22.8		28.2	7.68	6.47	9.2
TMCLKL	HY/2012/08	2017-04-18	Mid-Ebb	Cloudy	Small wave	CS4		17.2	3	1	15:42	22.8	7.8	28.2	7.73	6.53	9.7
TMCLKL	HY/2012/08	2017-04-18	Mid-Ebb	Cloudy	Small wave	CS4	Bottom	17.2	3	2	15:42	22.8	7.81	28.3	7.76	6.51	9.5
TMCLKL	HY/2012/08	2017-04-18	Mid-Ebb	Cloudy		CS6	Surface	1	1	1	17:36	22.8	8	28.2	7.7	6.32	9.2
TMCLKL	HY/2012/08	2017-04-18	Mid-Ebb	Cloudy		CS6	Surface	1	1	2	17:36	22.8	7.98	28.2	7.71	6.34	9.3
TMCLKL	HY/2012/08	2017-04-18	Mid-Ebb	Cloudy		CS6	Middle	7	2	2	17:36	22.0		28.2	7.69	6.12	9.3 8.9
TMCLKL	HY/2012/08	2017-04-18	Mid-Ebb	Cloudy	Small wave	CS6	Middle	7	2	2	17:36	22.7	8.02	28.3	7.09	6.15	9.1
TMCLKL	HY/2012/08	2017-04-18	Mid-Ebb	Cloudy	Small wave	CS6	Bottom	7 12.9	2	1	17:36	22.0		28.3	7.72	6.24	8.9
TMCLKL	HY/2012/08	2017-04-18	Mid-Ebb	Cloudy	Small wave	CS6	Bottom	12.9	3	2	17:36	22.9		28.2	7.73	6.26	9.3
TMCLKL	HY/2012/08	2017-04-18	Mid-Ebb	Cloudy		IS12	Surface	12.9	1	2	-	22.0		28.1	7.7	6.31	9.5 8.5
TMCLKL	HY/2012/08	2017-04-18	Mid-Ebb	Cloudy	Small wave	IS12 IS12	Surface	1	1	2	16:16	22.7	7.94	28.2	7.72	6.34	8.6
								6.2	1	2	-				7.77		
	HY/2012/08	2017-04-18	Mid-Ebb Mid Ebb	Cloudy	Small wave	IS12 IS12		6.2 6.2	2	2		22.8		28.2	7.75	6.37 6.30	8.4 8.6
	HY/2012/08	2017-04-18 2017-04-18	Mid-Ebb	Cloudy	Small wave			-	2	4	16:16	22.7		28.2		6.39 6.47	
	HY/2012/08		Mid-Ebb	Cloudy	Small wave	IS12	Bottom	11.3	3 2	2		22.7		28.1	7.68	6.47	8.9 8.7
	HY/2012/08	2017-04-18	Mid-Ebb	Cloudy		IS12	Bottom	11.3	ა 1	4	16:16	22.7		28.2	7.69	6.44	8.7
	HY/2012/08	2017-04-18	Mid-Ebb	Cloudy	Small wave	IS13	Surface	1	1		16:30	22.7		28.3	7.62	6.3	8.6 8.5
	HY/2012/08	2017-04-18	Mid-Ebb	Cloudy	Small wave	IS13	Surface	 		4	16:30	22.6	7.91	28.2	7.6	6.27	8.5
	HY/2012/08	2017-04-18	Mid-Ebb	Cloudy	Small wave	IS13		5.2	2	1	16:30	22.7		28.2	7.71	6.27	8.4
	HY/2012/08	2017-04-18	Mid-Ebb	Cloudy	Small wave	IS13		5.2	2	4	16:30	22.6		28.2	7.74	6.27	8.8
	HY/2012/08	2017-04-18	Mid-Ebb	Cloudy	Small wave	IS13	Bottom	10.3	<u>ა</u>		16:30	22.7 22.6		28.2	7.68	6.4	8.8
	HY/2012/08	2017-04-18	Mid-Ebb	Cloudy	Small wave	IS13	-	10.3	3 4	2	16:30	22.6		28.3	7.71	6.38	8.8
TMCLKL	HY/2012/08	2017-04-18	Mid-Ebb	Cloudy	Small wave	IS14	Surface	1	1	1	16:00	22.7		28.2	7.73	6.21	7.5
TMCLKL	HY/2012/08	2017-04-18	Mid-Ebb	Cloudy	Small wave	IS14	Surface	1	1	2	16:00	22.7		28.3	7.72	6.24	7.9
TMCLKL	HY/2012/08	2017-04-18	Mid-Ebb	Cloudy	Small wave	IS14		5.8	2	1		22.6		28.2	7.68	6.3	7.8
TMCLKL	HY/2012/08	2017-04-18	Mid-Ebb	Cloudy	Small wave	IS14		5.8	2	2	16:00	22.7	7.91	28.2	7.68	6.31	7.8
TMCLKL	HY/2012/08	2017-04-18	Mid-Ebb	Cloudy				10.6	3	1		22.7		28.3	7.73	6.4	7.8
TMCLKL	HY/2012/08	2017-04-18	Mid-Ebb	Cloudy	Small wave	IS14	Bottom	10.6	3	2	16:00	22.6	7.88	28.3	7.76	6.42	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	2017-04-18	Mid-Ebb	Cloudy	Small wave	IS15	Surface	1	1	1	16:45	22.7	7.9	28.3	7.72	6.24	8.4
TMCLKL	HY/2012/08	2017-04-18	Mid-Ebb	Cloudy	Small wave	IS15	Surface	1	1	2	16:45	22.7	7.88	28.3	7.74	6.28	8.6
TMCLKL	HY/2012/08	2017-04-18	Mid-Ebb	Cloudy	Small wave	IS15	Middle	5	2	1	16:45	22.6	7.96	28.2	7.68	6.2	8.3
TMCLKL	HY/2012/08	2017-04-18	Mid-Ebb	Cloudy	Small wave	IS15	Middle	5	2	2	16:45	22.6	7.97	28.3	7.7	6.21	8.5
TMCLKL	HY/2012/08	2017-04-18	Mid-Ebb	Cloudy	Small wave	IS15	Bottom	9	3	1	16:45	22.7	7.95	28.2	7.74	6.25	8.3
TMCLKL	HY/2012/08	2017-04-18	Mid-Ebb	Cloudy	Small wave	IS15	Bottom	9	3	2	16:45	22.8	7.92	28.3	7.73	6.27	8.7
TMCLKL	HY/2012/08	2017-04-18	Mid-Ebb	Cloudy	Small wave	SR8	Surface	1	1	1	17:11	22.7	7.87	28.3	7.68	6.22	8.1
TMCLKL	HY/2012/08	2017-04-18	Mid-Ebb	Cloudy	Small wave	SR8	Surface	1	1	2	17:11	22.6	7.85	28.3	7.67	6.25	8.1
TMCLKL	HY/2012/08	2017-04-18	Mid-Ebb	Cloudy	Small wave	SR8	Middle		2	1	17:11						
TMCLKL	HY/2012/08	2017-04-18	Mid-Ebb	Cloudy	Small wave	SR8	Middle		2	2	17:11						
TMCLKL	HY/2012/08	2017-04-18	Mid-Ebb	Cloudy	Small wave	SR8		4.4	3	1	17:11	22.6	7.9	28.3	7.71	6.3	8.2
TMCLKL	HY/2012/08	2017-04-18	Mid-Ebb	Cloudy	Small wave	SR8	Bottom	4.4	3	2	17:11	22.6	7.91	28.2	7.72	6.31	8.1
TMCLKL	HY/2012/08	2017-04-18	Mid-Ebb	Cloudy	Small wave	SR9	Surface	1	1	1	17:00	22.7	7.93	28.2	7.66	5.99	7.9
TMCLKL	HY/2012/08	2017-04-18	Mid-Ebb	Cloudy	Small wave	SR9	Surface	1	1	2	17:00	22.7		28.2	7.69	6.01	7.8
TMCLKL	HY/2012/08	2017-04-18	Mid-Ebb	Cloudy	Small wave	SR9	Middle		2	1	17:00						
TMCLKL	HY/2012/08	2017-04-18	Mid-Ebb	Cloudy	Small wave	SR9	Middle		2	2	17:00						+
TMCLKL	HY/2012/08	2017-04-18	Mid-Ebb	Cloudy	Small wave	SR9		3.5	3	1	17:00	22.8	7.96	28.2	7.65	6.19	7.8
TMCLKL	HY/2012/08	2017-04-18	Mid-Ebb	Cloudy	Small wave	SR9	Bottom	3.5	3	2	17:00	22.0	7.98	28.2	7.66	6.17	7.9
TMCLKL	HY/2012/08	2017-04-18	Mid-Ebb	Cloudy	Small wave	SR10A	Surface	1	1	1	17:22	22.9	7.96	28.2	7.00	6.21	8
TMCLKL	HY/2012/08	2017-04-18	Mid-Ebb	Cloudy	Small wave	SR10A SR10A	Surface	1	1	2	17:22	22.0	7.90	28.3	7.74	6.2	o 8.2
TMCLKL	HY/2012/08	2017-04-18	Mid-Ebb	Cloudy	Small wave	SR10A SR10A		1 6.7	2	<u>د</u> 1	17:22	22.0	7.93	28.3	7.7	6.11	7.9
									2	1	-						
	HY/2012/08	2017-04-18	Mid-Ebb	Cloudy	Small wave	SR10A	Middle	6.7	2	2	17:22	22.7	7.9	28.3	7.68	6.12	8
TMCLKL	HY/2012/08	2017-04-18	Mid-Ebb	Cloudy	Small wave	SR10A	Bottom	12.4	3	1	17:22	22.7	7.91	28.2	7.69	6.17	8.1
TMCLKL	HY/2012/08	2017-04-18	Mid-Ebb	Cloudy	Small wave	SR10A	Bottom	12.4	3	2	17:22	22.8	7.93	28.3	7.7	6.19	8.1
TMCLKL	HY/2012/08	2017-04-20	Mid-Flood	Cloudy	Small wave	CS4	Surface	1	1	1	08:50	23.5		28	7.73	5.94	8.6
TMCLKL	HY/2012/08	2017-04-20	Mid-Flood	Cloudy	Small wave	CS4	Surface	1	1	2	08:50	23.5		28	7.78	5.87	8.7
TMCLKL	HY/2012/08		Mid-Flood	Cloudy		CS4		8.9	2	1	_	23.5	7.86		7.86	5.8	8.2
TMCLKL	HY/2012/08	2017-04-20	Mid-Flood	Cloudy	Small wave	CS4	Middle	8.9	2	2	08:50	23.6		28.2	7.8	5.75	8.1
TMCLKL	HY/2012/08	2017-04-20	Mid-Flood	Cloudy	Small wave	CS4	Bottom	16.8	3	1	08:50	23.6		28.3	7.97	6.04	8.6
TMCLKL	HY/2012/08	2017-04-20	Mid-Flood	Cloudy	Small wave	CS4	Bottom	16.8	3	2	08:50	23.7		28.3	8.04	6.11	9
TMCLKL	HY/2012/08	2017-04-20	Mid-Flood	Cloudy	Small wave	CS6	Surface	1	1	1	07:45	23.4	7.83	28.1	7.69	6.04	8.8
TMCLKL	HY/2012/08	2017-04-20	Mid-Flood	Cloudy	Small wave	CS6	Surface	1	1	2	07:45	23.4	7.8	28.1	7.75	6.08	8.9
TMCLKL	HY/2012/08	2017-04-20	Mid-Flood	Cloudy	Small wave	CS6	Middle	7	2	1	07:45	23.4	7.87	28.2	7.84	6.18	8.8
TMCLKL	HY/2012/08	2017-04-20	Mid-Flood	Cloudy	Small wave	CS6	Middle	7	2	2	07:45	23.5	7.89	28.2	7.89	6.23	9.2
TMCLKL	HY/2012/08	2017-04-20	Mid-Flood	Cloudy	Small wave	CS6	Bottom	12.9	3	1	07:45	23.5	7.85	28.3	7.98	6.3	9.3
TMCLKL	HY/2012/08	2017-04-20	Mid-Flood	Cloudy	Small wave	CS6	Bottom	12.9	3	2	07:45	23.5	7.87	28.2	7.92	6.35	9.3
TMCLKL	HY/2012/08	2017-04-20	Mid-Flood	Cloudy	Small wave	IS12	Surface	1	1	1	08:33	23.4	7.94	28	7.4	5.8	8
TMCLKL	HY/2012/08	2017-04-20	Mid-Flood	Cloudy	Small wave	IS12	Surface	1	1	2	08:33	23.5	7.92	28	7.46	5.75	7.9
TMCLKL	HY/2012/08	2017-04-20	Mid-Flood	Cloudy	Small wave	IS12		5.9	2	1	08:33	23.5		28.1	7.63	5.95	7.9
TMCLKL	HY/2012/08	2017-04-20	Mid-Flood	Cloudy	Small wave	IS12	Middle	5.9	2	2	08:33	23.5		28.1	7.56	5.99	7.9
TMCLKL	HY/2012/08	2017-04-20	Mid-Flood	Cloudy	Small wave	IS12	Bottom	10.8	3	1	08:33	23.6		28.1	7.75	6.13	8.1
TMCLKL	HY/2012/08	2017-04-20	Mid-Flood	Cloudy	Small wave	IS12	Bottom	10.8	3	2	08:33	23.5	7.8	28.2	7.81	6.21	8.5
TMCLKL	HY/2012/08	2017-04-20	Mid-Flood	Cloudy	Small wave	IS13	Surface	1	1	1	08:24	23.4		28	7.61	5.91	8
TMCLKL	HY/2012/08	2017-04-20	Mid-Flood	Cloudy	Small wave	IS13	Surface	1	1	2	08:24	23.4	7.9	28.1	7.66	5.96	8.3
TMCLKL	HY/2012/08	2017-04-20	Mid-Flood	Cloudy	Small wave	IS13		5.9	2	1	08:24	23.5		28.1	7.74	6.04	8.5
TMCLKL	HY/2012/08	2017-04-20	Mid-Flood	Cloudy	Small wave	IS13		5.9	2	2	08:24	23.5	7.82	28.2	7.81	6.11	8.6
	HY/2012/08	2017-04-20	Mid-Flood	Cloudy	Small wave	IS13	Bottom	3.9 10.7	3	1	08:24	23.5		28.2	7.95	6.23	8.7
TMCLKL	HY/2012/08	2017-04-20	Mid-Flood	Cloudy	Small wave	IS13	Bottom	10.7	3	2		23.6		28.3	7.95	6.18	8.8
	HY/2012/08					IS13 IS14		10.7	1	<u>د</u> 1					7.9 7.59	5.83	7
		2017-04-20	Mid-Flood	Cloudy	Small wave		Surface	1	1	2		23.5		28			7 1
	HY/2012/08	2017-04-20	Mid-Flood	Cloudy	Small wave	IS14	Surface	5.0		4		23.4		28	7.65	5.88	7.1
	HY/2012/08	2017-04-20	Mid-Flood	Cloudy	Small wave	IS14		5.9	2			23.5		28.1	7.73	5.72	/
TMCLKL	HY/2012/08	2017-04-20	Mid-Flood	Cloudy	Small wave	IS14		5.9	2	2	_	23.4		28	7.8	5.79	7.2
TMCLKL	HY/2012/08	2017-04-20	Mid-Flood	Cloudy	Small wave	IS14	Bottom	10.8	3	1	08:42	23.6		28.2	7.92	5.96	7.3
TMCLKL	HY/2012/08	2017-04-20	Mid-Flood	Cloudy	Small wave	IS14	Bottom	10.8	3	2	08:42	23.6		28.2	7.99	6.01	7.5
TMCLKL	HY/2012/08	2017-04-20	Mid-Flood	Cloudy			Surface	1	1	1	08:15		7.91		7.49	5.79	7.8
TMCLKL	HY/2012/08	2017-04-20	Mid-Flood	Cloudy	Small wave	IS15	Surface	1	1	2	08:15	23.4	7.89	28	7.55	5.85	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	2017-04-20	Mid-Flood	Cloudy	Small wave	IS15	Middle	5.1	2	1	08:15	23.4	7.79	28.1	7.63	5.68	7.9
TMCLKL	HY/2012/08	2017-04-20	Mid-Flood	Cloudy	Small wave	IS15	Middle	5.1	2	2	08:15	23.5	7.8	28.1	7.7	5.61	7.5
TMCLKL	HY/2012/08	2017-04-20	Mid-Flood	Cloudy	Small wave	IS15	Bottom	9.1	3	1	08:15	23.5	7.87	28.2	7.84	5.95	8.3
TMCLKL	HY/2012/08	2017-04-20	Mid-Flood	Cloudy	Small wave	IS15	Bottom	9.1	3	2	08:15	23.5	7.85	28.1	7.88	6.02	8.3
TMCLKL	HY/2012/08	2017-04-20	Mid-Flood	Cloudy	Small wave	SR8	Surface	1	1	1	08:03	23.4	7.95	28.1	7.58	5.91	7.6
TMCLKL	HY/2012/08	2017-04-20	Mid-Flood	Cloudy	Small wave	SR8	Surface	1	1	2	08:03	23.4	7.92	28	7.53	5.95	7.7
TMCLKL	HY/2012/08	2017-04-20	Mid-Flood	Cloudy	Small wave	SR8	Middle		2	1	08:03						
TMCLKL	HY/2012/08	2017-04-20	Mid-Flood	Cloudy	Small wave	SR8	Middle		2	2	08:03						
TMCLKL	HY/2012/08	2017-04-20	Mid-Flood	Cloudy	Small wave	SR8	Bottom	4.7	3	1	08:03	23.4	7.93	28.2	7.71	5.99	7.7
TMCLKL	HY/2012/08	2017-04-20	Mid-Flood	Cloudy	Small wave	SR8	Bottom	4.7	3	2	08:03	23.5	7.91	28.2	7.66	5.94	7.4
TMCLKL	HY/2012/08	2017-04-20	Mid-Flood	Cloudy	Small wave	SR9	Surface	1	1	1	08:09	23.4	7.85	28.1	7.64	5.84	7.5
TMCLKL	HY/2012/08	2017-04-20	Mid-Flood	Cloudy	Small wave	SR9	Surface	1	1	2	08:09	23.4	7.88	28	7.69	5.89	7.3
TMCLKL	HY/2012/08	2017-04-20	Mid-Flood	Cloudy	Small wave	SR9	Middle		2	1	08:09						
TMCLKL	HY/2012/08	2017-04-20	Mid-Flood	Cloudy	Small wave	SR9	Middle		2	2	08:09						
TMCLKL	HY/2012/08	2017-04-20	Mid-Flood	Cloudy	Small wave	SR9	Bottom	3.6	3	1	08:09	23.4	7.82	28.1	7.78	5.99	7.9
TMCLKL	HY/2012/08	2017-04-20	Mid-Flood	Cloudy	Small wave	SR9	Bottom	3.6	3	2	08:09	23.4	7.83	28.1	7.86	6.04	7.7
TMCLKL	HY/2012/08	2017-04-20	Mid-Flood	Cloudy	Small wave	SR10A	Surface	1	1	1	07:54	23.4	7.78	28.1	7.64	6.04	7.7
TMCLKL	HY/2012/08	2017-04-20	Mid-Flood	Cloudy	Small wave	SR10A	Surface	1	1	2	07:54	23.5	7.81	28.1	7.71	5.97	7.6
TMCLKL	HY/2012/08	2017-04-20	Mid-Flood	Cloudy	Small wave	SR10A	Middle	6.6	2	1	07:54	23.5	7.93	28.1	7.52	5.83	7.7
TMCLKL	HY/2012/08	2017-04-20	Mid-Flood	Cloudy	Small wave	SR10A	Middle	6.6	2	2	07:54	23.4	7.91	28.2	7.48	5.88	7.7
TMCLKL	HY/2012/08	2017-04-20	Mid-Flood	Cloudy	Small wave	SR10A	Bottom	12.2	3	1	07:54	23.5	7.86	28.3	7.87	6.13	7.8
TMCLKL	HY/2012/08	2017-04-20	Mid-Flood	Cloudy	Small wave		Bottom	12.2	3	2	07:54	23.5		28.2	7.92	6.16	7.9
TMCLKL	HY/2012/08	2017-04-20	Mid-Ebb	Cloudy	Small wave	CS4	Surface	1	1	1	18:05	22.5		28.3	7.55	6.26	8.8
TMCLKL	HY/2012/08	2017-04-20	Mid-Ebb	Cloudy	Small wave	CS4	Surface	1	1	2	18:05	22.6	-	28.4	7.58	6.29	8.9
	HY/2012/08	2017-04-20	Mid-Ebb	Cloudy	Small wave	CS4		8.8	2	1	18:05	22.6	7.91	28.2	7.22	6.3	9.1
	HY/2012/08	2017-04-20	Mid-Ebb	Cloudy	Small wave	CS4		8.8	2	2	18:05	22.7		28.2	7.27	6.33	9.3
	HY/2012/08		Mid-Ebb	Cloudy				16.6	3	1		22.8		28.4	7.36	6.41	9.4
	HY/2012/08	2017-04-20	Mid-Ebb	Cloudy	Small wave			16.6	3	2	18:05	22.9		28.5	7.38	6.47	9.3
TMCLKL	HY/2012/08	2017-04-20	Mid-Ebb	Cloudy	Small wave	CS6	Surface	1	1	1	20:08	22.5		28.3	7.54	6.16	9
TMCLKL	HY/2012/08	2017-04-20	Mid-Ebb	Cloudy	Small wave	CS6	Surface	1	1	2	20:08	22.5		28.4	7.57	6.19	9.3
	HY/2012/08	2017-04-20	Mid-Ebb	Cloudy	Small wave	CS6	Middle	6.8	2	1	20:08	22.6		28.4	7.68	6.04	8.8
	HY/2012/08	2017-04-20	Mid-Ebb	Cloudy	Small wave	CS6		6.8	2	2	20:08	22.7		28.5	7.6	6.07	8.8
	HY/2012/08	2017-04-20	Mid-Ebb	Cloudy	Small wave	CS6	Bottom	12.6	3	1		22.6		28.6	7.51	6.25	9
TMCLKL	HY/2012/08	2017-04-20	Mid-Ebb	Cloudy			Bottom	12.6	3	2		22.6		28.6	7.58	6.28	9
TMCLKL	HY/2012/08	2017-04-20	Mid-Ebb	Cloudy	Small wave	IS12	Surface	1	1	1		22.5		28.2	7.21	6.05	8.1
	HY/2012/08	2017-04-20	Mid-Ebb	Cloudy	Small wave	IS12	Surface	1	1	2	-	22.6	-	28.2	7.25	6.08	8.2
	HY/2012/08	2017-04-20		Cloudy	Small wave	IS12		5.8	2	1		22.6		28.2	7.37	6.11	8.2
	HY/2012/08	2017-04-20	Mid-Ebb	Cloudy	Small wave	IS12		5.8	2	2		22.6		28.3	7.3	6.18	8.6
	HY/2012/08	2017-04-20	Mid-Ebb	Cloudy	Small wave			10.6	3	1	18:35	22.7		28.3	7.48	6.29	8.6
	HY/2012/08	2017-04-20	Mid-Ebb	Cloudy	Small wave	IS12		10.6	3	2	18:35	22.8		28.4	7.44	6.32	8.6
	HY/2012/08	2017-04-20	Mid-Ebb	Cloudy	Small wave	IS13	Surface	1	1	1	18:54	22.5		28.2	7.43	6.08	8.4
	HY/2012/08	2017-04-20	Mid-Ebb	Cloudy	Small wave	IS13	Surface	1	1	2	18:54	22.6		28.3	7.4	6.11	8.3
	HY/2012/08	2017-04-20	Mid-Ebb	Cloudy	Small wave	IS13		5.7	2	1	18:54	22.6	-	28.3	7.25	6.02	8.4
	HY/2012/08	2017-04-20	Mid-Ebb	Cloudy	Small wave	IS13		5.7	2	2	18:54	22.7		28.4	7.28	6.07	8.3
	HY/2012/08	2017-04-20	Mid-Ebb	Cloudy				10.3	3	1		22.7	7.75		7.15	6.16	8.6
	HY/2012/08	2017-04-20	Mid-Ebb	Cloudy	Small wave	IS13		10.3	3	2	18:54	22.7		28.5	7.19	6.18	8.8
	HY/2012/08	2017-04-20	Mid-Ebb	Cloudy	Small wave	IS14	Surface	1	1	1	18:22	22.5		28.3	7.43	6.02	7.7
	HY/2012/08	2017-04-20	Mid-Ebb	Cloudy	Small wave	IS14	Surface	1	1	2	18:22	22.5		28.4	7.47	6.05	7.7
	HY/2012/08	2017-04-20	Mid-Ebb	Cloudy	Small wave	IS14		5.8	2	1	18:22	22.5		28.4	7.31	6.28	7.6
	HY/2012/08	2017-04-20	Mid-Ebb	Cloudy	Small wave	IS14		5.8	2	2		22.6		28.5	7.33	6.31	7.7
	HY/2012/08	2017-04-20	Mid-Ebb	Cloudy				10.5	3	1		22.6		28.5	7.27	6.34	8
	HY/2012/08	2017-04-20	Mid-Ebb	Cloudy	Small wave		Bottom	10.5	3	2	18:22	22.0		28.6	7.22	6.37	7 7
	HY/2012/08	2017-04-20	Mid-Ebb	Cloudy	Small wave	IS14 IS15	Surface	1	1	<u>-</u> 1		22.7		28.3	7.33	6.01	8.2
	HY/2012/08	2017-04-20	Mid-Ebb	Cloudy	Small wave	IS15 IS15	Surface	1	1	2	19:10	22.0		28.4	7.38	6.1	7.1
			Mid-Ebb	Cloudy			Middle	4 0	2	<u>-</u> 1	19:10		7.99		7.30	6.06	8
	HY/2012/08			- · · · · · · · · · · · · · · · · · · ·		1010					∎ I IJ. I U	44.1	1.01		11.74		

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	2017-04-20	Mid-Ebb	Cloudy	Small wave	IS15	Bottom	8.8	3	1	19:10	22.8	7.94	28.5	7.24	6.22	8.4
TMCLKL	HY/2012/08	2017-04-20	Mid-Ebb	Cloudy	Small wave	IS15	Bottom	8.8	3	2	19:10	22.7	7.99	28.6	7.29	6.25	8.2
TMCLKL	HY/2012/08	2017-04-20	Mid-Ebb	Cloudy	Small wave	SR8	Surface	1	1	1	19:38	22.6	7.95	28.2	7.3	6.07	8.1
TMCLKL	HY/2012/08	2017-04-20	Mid-Ebb	Cloudy	Small wave	SR8	Surface	1	1	2	19:38	22.6	7.97	28.3	7.36	6	7.7
TMCLKL	HY/2012/08	2017-04-20	Mid-Ebb	Cloudy	Small wave	SR8	Middle		2	1	19:38						
TMCLKL	HY/2012/08	2017-04-20	Mid-Ebb	Cloudy	Small wave	SR8	Middle		2	2	19:38						
TMCLKL	HY/2012/08	2017-04-20	Mid-Ebb	Cloudy	Small wave	SR8	Bottom	4.5	3	1	19:38	22.6	7.84	28.3	7.42	6.12	7.7
TMCLKL	HY/2012/08	2017-04-20	Mid-Ebb	Cloudy	Small wave	SR8	Bottom	4.5	3	2	19:38	22.7	7.8	28.4	7.48	6.15	7.8
TMCLKL	HY/2012/08	2017-04-20	Mid-Ebb	Cloudy	Small wave	SR9	Surface	1	1	1	19:26	22.5	7.81	28.2	7.51	6.03	7.9
TMCLKL	HY/2012/08	2017-04-20	Mid-Ebb	Cloudy	Small wave	SR9	Surface	1	1	2	19:26	22.6	7.88	28.3	7.56	6.07	7.8
TMCLKL	HY/2012/08	2017-04-20	Mid-Ebb	Cloudy	Small wave	SR9	Middle		2	1	19:26						
TMCLKL	HY/2012/08	2017-04-20	Mid-Ebb	Cloudy	Small wave	SR9	Middle		2	2	19:26						
TMCLKL	HY/2012/08	2017-04-20	Mid-Ebb	Cloudy	Small wave	SR9	Bottom	3.3	3	1	19:26	22.6	7.97	28.3	7.58	6.21	7.9
TMCLKL	HY/2012/08	2017-04-20	Mid-Ebb	Cloudy	Small wave	SR9	Bottom	3.3	3	2	19:26	22.7	7.93	28.4	7.55	6.28	8.1
TMCLKL	HY/2012/08	2017-04-20	Mid-Ebb	Cloudy	Small wave	SR10A	Surface	1	1	1	19:51	22.6	7.81	28.2	7.52	6.02	8
TMCLKL	HY/2012/08	2017-04-20	Mid-Ebb	Cloudy	Small wave	SR10A	Surface	1	1	2	19:51	22.5	7.87	28.2	7.55	6.05	7.8
TMCLKL	HY/2012/08	2017-04-20	Mid-Ebb	Cloudy	Small wave	SR10A	Middle	6.5	2	1	19:51	22.6	7.76	28.3	7.44	6.09	8.1
TMCLKL	HY/2012/08	2017-04-20	Mid-Ebb	Cloudy	Small wave	SR10A	Middle	6.5	2	2	19:51	22.7	7.7	28.4	7.48	6.13	8
TMCLKL	HY/2012/08	2017-04-20	Mid-Ebb	Cloudy	Small wave	SR10A	Bottom	12	3	1	19:51	22.7	7.83	28.5	7.63	6.21	8.1
TMCLKL	HY/2012/08	2017-04-20	Mid-Ebb	Cloudy	Small wave	SR10A	Bottom	12	3	2	19:51	22.8	7.87	28.6	7.66	6.27	8
TMCLKL	HY/2012/08	2017-04-22	Mid-Flood	Cloudy	Small wave	CS4	Surface	1	1	1	16:01	22.4	7.94	28.1	7.61	6.17	8.7
TMCLKL	HY/2012/08	2017-04-22	Mid-Flood	Cloudy	Small wave	CS4	Surface	1	1	2	16:01	22.5	7.89	28.2	7.64	6.2	8.9
TMCLKL	HY/2012/08	2017-04-22	Mid-Flood	Cloudy	Small wave	CS4	Middle	8.9	2	1	16:01	22.4	7.97	28.2	7.28	6.21	9
TMCLKL	HY/2012/08	2017-04-22	Mid-Flood	Cloudy	Small wave	CS4	Middle	8.9	2	2	16:01	22.3	8.01	28.3	7.33	6.24	9.1
TMCLKL	HY/2012/08	2017-04-22	Mid-Flood	Cloudy	Small wave	CS4	Bottom	16.8	3	1	16:01	22.3	7.82	28.3	7.42	6.32	9.4
TMCLKL	HY/2012/08	2017-04-22	Mid-Flood	Cloudy	Small wave	CS4	Bottom	16.8	3	2	16:01	22.3	7.86	28.4	7.44	6.38	9.2
TMCLKL	HY/2012/08	2017-04-22	Mid-Flood	Cloudy	Small wave	CS6	Surface	1	1	1	13:53	22.9		28.2	7.6	6.07	8.8
TMCLKL	HY/2012/08	2017-04-22	Mid-Flood	Cloudy	Small wave	CS6	Surface	1	1	2	13:53	23	7.82	28.3	7.63	6.1	9
TMCLKL	HY/2012/08	2017-04-22	Mid-Flood	Cloudy	Small wave	CS6	Middle	6.9	2	1	13:53	22.8	7.92	28.4	7.74	5.95	8.9
TMCLKL	HY/2012/08	2017-04-22	Mid-Flood	Cloudy	Small wave	CS6	Middle	6.9	2	2	13:53	22.9	7.95	28.3	7.66	5.98	8.6
TMCLKL	HY/2012/08	2017-04-22	Mid-Flood	Cloudy	Small wave	CS6	Bottom	12.8	3	1	13:53	22.9		28.4	7.57	6.16	8.8
TMCLKL	HY/2012/08	2017-04-22	Mid-Flood	Cloudy	Small wave	CS6	Bottom	12.8	3	2	13:53	22.8		28.5	7.64	6.19	9
TMCLKL	HY/2012/08	2017-04-22	Mid-Flood	Cloudy	Small wave	IS12	Surface	1	1	1	15:22	22.6		28	7.27	5.96	7.9
TMCLKL	HY/2012/08	2017-04-22	Mid-Flood	Cloudy	Small wave	IS12	Surface	1	1	2	15:22	22.7		28.1	7.31	5.99	8.2
TMCLKL	HY/2012/08	2017-04-22	Mid-Flood	Cloudy		IS12	Middle	6	2	1	15:22	22.5		28.2	7.43	6.02	8.3
TMCLKL	HY/2012/08	2017-04-22	Mid-Flood	Cloudy	Small wave	IS12	Middle	6	2	2	15:22	22.6		28.1	7.36	6.09	8.1
TMCLKL	HY/2012/08	2017-04-22	Mid-Flood	Cloudy	Small wave	IS12	Bottom	10.9	3	1	15:22	22.6		28.2	7.54	6.2	8.2
TMCLKL	HY/2012/08	2017-04-22	Mid-Flood	Cloudy	Small wave	IS12	Bottom	10.9	3	2	15:22	22.5		28.3	7.5	6.23	8.5
TMCLKL	HY/2012/08	2017-04-22	Mid-Flood	Cloudy		IS13	Surface	1	1	1	15:05	22.6		28.1	7.49	5.99	8.2
TMCLKL	HY/2012/08	2017-04-22	Mid-Flood	Cloudy	Small wave	IS13	Surface	1	1	2	15:05	22.7		28.2	7.46	6.02	8.6
TMCLKL	HY/2012/08	2017-04-22	Mid-Flood	Cloudy	Small wave	IS13		5.8	2	1	15:05	22.7		28.3	7.31	5.93	8.1
TMCLKL	HY/2012/08	2017-04-22	Mid-Flood	Cloudy	Small wave	IS13	Middle	5.8	2	2	15:05	22.6		28.4	7.34	5.98	8.3
TMCLKL	HY/2012/08	2017-04-22	Mid-Flood	Cloudy	Small wave	IS13	Bottom	10.6	3	1	15:05	22.7		28.5	7.21	6.07	8.3
TMCLKL	HY/2012/08	2017-04-22	Mid-Flood	Cloudy		IS13	Bottom	10.6	3	2	15:05	22.8		28.4	7.25	6.09	8.58
TMCLKL	HY/2012/08	2017-04-22	Mid-Flood	Cloudy		IS14	Surface	1	1	1	15:39	22.6		28.2	7.49	5.93	7.6
TMCLKL	HY/2012/08	2017-04-22	Mid-Flood	Cloudy	Small wave	IS14	Surface	1	1	2	15:39	22.5		28.3	7.53	5.96	7.2
TMCLKL	HY/2012/08	2017-04-22	Mid-Flood	Cloudy	Small wave	IS14	Middle	5.8	2	1	15:39	22.5		28.4	7.37	6.19	7.9
TMCLKL	HY/2012/08	2017-04-22	Mid-Flood	Cloudy	Small wave	IS14	Middle	5.8	2	2	15:39	22.6		28.3	7.39	6.22	7.8
TMCLKL	HY/2012/08	2017-04-22	Mid-Flood	Cloudy	Small wave	IS14	Bottom	10.6	3	1	15:39	22.5		28.4	7.33	6.25	7.8
TMCLKL	HY/2012/08	2017-04-22	Mid-Flood	Cloudy	Small wave	IS14	Bottom	10.6	3	2	15:39	22.4		28.5	7.28	6.28	8
TMCLKL	HY/2012/08	2017-04-22	Mid-Flood	Cloudy	Small wave	IS14 IS15	Surface	1	1	1	14:48	22.4		28.2	7.39	5.92	8
TMCLKL	HY/2012/08	2017-04-22	Mid-Flood	Cloudy	Small wave	IS15 IS15	Surface	1	1	2	14:48	22.5		28.3	7.44	6.01	8.4
TMCLKL	HY/2012/08	2017-04-22	Mid-Flood	Cloudy	Small wave	IS15 IS15		5.1	2	1	14:48	22.5		28.5	7.44	5.97	8.3
TMCLKL	HY/2012/08	2017-04-22	Mid-Flood	Cloudy	Small wave	IS15 IS15		5.1	2	2	14:48	22.0		28.4	7.54	6.04	8.3
	HY/2012/08		Mid-Flood	Cloudy				9.2	2	1		22.0	8	28.4	7.3	6.13	8.3
				Cloudy	Small wave		Bottom		~	1	14:48		8.05		7.35	6.16	8.3

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	2017-04-22	Mid-Flood	Cloudy	Small wave	SR8	Surface	1	1	1	14:14	22.7	8.01	28.1	7.36	5.98	7.9
TMCLKL	HY/2012/08	2017-04-22	Mid-Flood	Cloudy	Small wave	SR8	Surface	1	1	2	14:14	22.6	8.03	28.2	7.42	5.91	7.7
TMCLKL	HY/2012/08	2017-04-22	Mid-Flood	Cloudy	Small wave	SR8	Middle		2	1	14:14						
TMCLKL	HY/2012/08	2017-04-22	Mid-Flood	Cloudy	Small wave	SR8	Middle		2	2	14:14						
TMCLKL	HY/2012/08	2017-04-22	Mid-Flood	Cloudy	Small wave	SR8	Bottom	4.2	3	1	14:14	22.6	7.9	28.2	7.48	6.03	7.7
TMCLKL	HY/2012/08	2017-04-22	Mid-Flood	Cloudy	Small wave	SR8	Bottom	4.2	3	2	14:14	22.7	7.86	28.3	7.54	6.06	7.8
TMCLKL	HY/2012/08	2017-04-22	Mid-Flood	Cloudy	Small wave	SR9	Surface	1	1	1	14:31	22.7	7.87	28.2	7.57	5.94	7.8
TMCLKL	HY/2012/08	2017-04-22	Mid-Flood	Cloudy	Small wave	SR9	Surface	1	1	2	14:31	22.8	7.94	28.1	7.62	5.98	7.7
TMCLKL	HY/2012/08	2017-04-22	Mid-Flood	Cloudy	Small wave	SR9	Middle		2	1	14:31						
TMCLKL	HY/2012/08	2017-04-22	Mid-Flood	Cloudy	Small wave	SR9	Middle		2	2	14:31						
TMCLKL	HY/2012/08	2017-04-22	Mid-Flood	Cloudy	Small wave	SR9	Bottom	3.6	3	1	14:31	22.7	8.03	28.2	7.64	6.12	8
TMCLKL	HY/2012/08	2017-04-22	Mid-Flood	Cloudy	Small wave	SR9	Bottom	3.6	3	2	14:31	22.7	7.99	28.3	7.61	6.19	8.1
TMCLKL	HY/2012/08	2017-04-22	Mid-Flood	Cloudy	Small wave	SR10A	Surface	1	1	1	14:07	22.9	7.87	28	7.58	5.93	7.5
TMCLKL	HY/2012/08	2017-04-22	Mid-Flood	Cloudy	Small wave	SR10A	Surface	1	1	2	14:07	22.8	7.93	28.1	7.61	5.96	7.7
TMCLKL	HY/2012/08	2017-04-22	Mid-Flood	Cloudy	Small wave	SR10A	Middle	6.4	2	1	14:07	22.8	7.82	28.2	7.5	6	7.5
TMCLKL	HY/2012/08	2017-04-22	Mid-Flood	Cloudy	Small wave	SR10A	Middle	6.4	2	2	14:07	22.9	7.76	28.1	7.54	6.04	7.9
TMCLKL	HY/2012/08	2017-04-22	Mid-Flood	Cloudy	Small wave	SR10A	Bottom	11.8	3	1	14:07	22.8	7.89	28.3	7.69	6.12	7.8
TMCLKL	HY/2012/08	2017-04-22	Mid-Flood	Cloudy	Small wave	SR10A	Bottom	11.8	3	2	14:07	22.7	7.93	28.4	7.72	6.18	8.1
TMCLKL	HY/2012/08	2017-04-22	Mid-Ebb	Cloudy	Small wave	CS4	Surface	1	1	1	09:45	22.7	7.83	28.5	7.63	3.32	4.8
TMCLKL	HY/2012/08	2017-04-22	Mid-Ebb	Cloudy		CS4	Surface	1	1	2	09:45	22.6	7.86	28.4	7.67	3.41	4.8
TMCLKL	HY/2012/08	2017-04-22	Mid-Ebb	Cloudy	Small wave	CS4		8.7	2	1	09:45	22.8	7.81		7.69	3.56	5.2
TMCLKL	HY/2012/08	2017-04-22	Mid-Ebb	Cloudy		CS4	Middle	8.7	2	2	09:45	22.7	7.79		7.68	3.52	5.1
TMCLKL	HY/2012/08	2017-04-22	Mid-Ebb	Cloudy			Bottom	16.4	3	1	09:45	22.6			7.41	3.68	5.2
TMCLKL	HY/2012/08	2017-04-22	Mid-Ebb	Cloudy			Bottom	16.4	3	2	09:45	22.7	7.99		7.44	3.62	5.2
TMCLKL	HY/2012/08	2017-04-22	Mid-Ebb	Cloudy			Surface	1	1	1	11:45	22.7	7.83	28.4	7.67	6.23	9.3
TMCLKL	HY/2012/08	2017-04-22	Mid-Ebb	Cloudy	Small wave		Surface	1	1	2	11:45	22.6	7.8		7.65	6.31	9.1
	HY/2012/08		Mid-Ebb	Cloudy				6.7	2	1		22.6	7.74		7.48	6.25	8.9
TMCLKL	HY/2012/08	2017-04-22	Mid-Ebb	Cloudy		CS6		6.7	2	2		22.5			7.49	6.29	9
TMCLKL	HY/2012/08	2017-04-22	Mid-Ebb	Cloudy				12.4	3	1		22.5			7.59	6.46	9.6
TMCLKL	HY/2012/08	2017-04-22	Mid-Ebb	Cloudy				12.4	3	2	11:45	22.4		28.7	7.56	6.53	9.5
TMCLKL	HY/2012/08	2017-04-22	Mid-Ebb	Cloudy	Small wave	IS12	Surface	1	1	1	10:16	22.7			7.46	6.22	8.4
TMCLKL	HY/2012/08	2017-04-22	Mid-Ebb	Cloudy		IS12	Surface	1	1	2	10:16	22.8			7.44	6.27	8.7
TMCLKL	HY/2012/08	2017-04-22	Mid-Ebb	Cloudy		IS12		5.7	2	1	10:16	22.9			7.62	6.34	8.5
TMCLKL	HY/2012/08	2017-04-22	Mid-Ebb	Cloudy		IS12		5.7	2	2	10:16	22.8			7.6	6.43	8.9
TMCLKL	HY/2012/08	2017-04-22	Mid-Ebb	Cloudy				10.4	3	1	10:16	22.6			7.74	6.51	8.6
TMCLKL	HY/2012/08	2017-04-22	Mid-Ebb	Cloudy	Small wave			10.4	3	2	10:16	22.7			7.71	6.58	9
TMCLKL	HY/2012/08	2017-04-22	Mid-Ebb	Cloudy		IS13	Surface	1	1	1	10:33	22.8			7.6	6.27	8.4
TMCLKL	HY/2012/08	2017-04-22	Mid-Ebb	Cloudy		IS13	Surface	1	1	2	10:33	22.7			7.61	6.22	8.8
TMCLKL	HY/2012/08	2017-04-22	Mid-Ebb	Cloudy				5.6	2	1	10:33	22.7			7.47	6.33	8.7
TMCLKL	HY/2012/08	2017-04-22	Mid-Ebb	Cloudy				5.6	2	2	10:33	22.7			7.49	6.25	8.6
TMCLKL	HY/2012/08	2017-04-22	Mid-Ebb	Cloudy				10.1	3	1	10:33	22.6			7.56	6.41	9
TMCLKL	HY/2012/08	2017-04-22	Mid-Ebb	Cloudy				10.1	3	2	10:33	22.5			7.59	6.48	8.8
TMCLKL	HY/2012/08	2017-04-22	Mid-Ebb	Cloudy	Small wave	IS13 IS14	Surface	1	1	1	10:01	22.3			7.52	6.09	8
TMCLKL	HY/2012/08	2017-04-22	Mid-Ebb	Cloudy		IS14 IS14	Surface	1	1	2	10:01	22.0			7.56	6.13	7.7
TMCLKL	HY/2012/08	2017-04-22	Mid-Ebb	Cloudy				5.8	2	1		22.7			7.44	6.32	7.9
TMCLKL	HY/2012/08	2017-04-22	Mid-Ebb	Cloudy				5.8	2 2	2	-	22.0			7.44 7.47	6.25	7.9 7.8
TMCLKL	HY/2012/08	2017-04-22	Mid-Ebb	Cloudy				5.o 10.6	<u>د</u> ع	1	10:01	22.0		28.7	7.68	6.11	7.o 7.4
TMCLKL	HY/2012/08 HY/2012/08	2017-04-22	Mid-Ebb	Cloudy	Small wave Small wave	IS14 IS14		10.6	ა ვ	2	10:01	22.6		28.7 28.8	7.65	6.18	7.4 7.8
TMCLKL	HY/2012/08	2017-04-22	Mid-Ebb	Cloudy		IS14 IS15	Surface	10.0	1	1	10:01	22.5			7.65 7.64	6.34	7.0 8.5
		2017-04-22		· · · · · · · · · · · · · · · · · · ·				1	1	2					7.64 7.65	6.42	8.6
	HY/2012/08		Mid-Ebb	Cloudy		IS15	Surface Middlo	1	2	4	10:48	22.8		28.5	7.65 7.71		
	HY/2012/08	2017-04-22	Mid-Ebb	Cloudy				4.8	2		10:48	22.7				6.38	8.5 8 7
	HY/2012/08	2017-04-22	Mid-Ebb	Cloudy				4.8 8.6	2	<u>د</u> ۱	10:48	22.6	-		7.73	6.33	8.7 8 0
	HY/2012/08	2017-04-22	Mid-Ebb	Cloudy	Small wave	IS15		8.6	ა ი		10:48	22.6			7.5	6.56	8.9 o 7
	HY/2012/08	2017-04-22	Mid-Ebb	Cloudy				8.6	3 1	2	10:48	22.6	-		7.53	6.51	8.7
	HY/2012/08		Mid-Ebb	Cloudy			Surface	1	1		11:17		7.87		7.51	6.37	8.3
TNICLKL	HY/2012/08	2017-04-22	ממב-במוועו	Cloudy	Small wave	SKØ	Surface	Ĩ	1	2	11:17	22.0	7.86	28.3	7.54	6.32	8.4

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	2017-04-22	Mid-Ebb	Cloudy	Small wave	SR8	Middle		2	1	11:17						
TMCLKL	HY/2012/08	2017-04-22	Mid-Ebb	Cloudy	Small wave	SR8	Middle		2	2	11:17						
TMCLKL	HY/2012/08	2017-04-22	Mid-Ebb	Cloudy	Small wave	SR8		4.6	3	1	11:17	22.6		28.5	7.62	6.28	8.1
TMCLKL	HY/2012/08	2017-04-22	Mid-Ebb	Cloudy	Small wave	SR8		4.6	3	2	11:17	22.6		28.6	7.63	6.21	8.1
TMCLKL	HY/2012/08	2017-04-22	Mid-Ebb	Cloudy	Small wave	SR9	Surface	1	1	1	11:04	22.6		28.5	7.47	6.12	7.6
TMCLKL	HY/2012/08	2017-04-22	Mid-Ebb	Cloudy	Small wave	SR9	Surface	1	1	2	11:04	22.7	7.84	28.6	7.43	6.02	7.9
TMCLKL	HY/2012/08	2017-04-22	Mid-Ebb	Cloudy	Small wave	SR9	Middle		2	1	11:04				ļ		_ _ /
TMCLKL	HY/2012/08	2017-04-22	Mid-Ebb	Cloudy	Small wave	SR9	Middle		2	2	11:04	00.7	7.00	00.7	7.0	0.04	
TMCLKL	HY/2012/08	2017-04-22	Mid-Ebb	Cloudy	Small wave	SR9		3.3	3	1	11:04	22.7	7.92	28.7	7.6	6.34	8.4
	HY/2012/08	2017-04-22	Mid-Ebb	Cloudy	Small wave	SR9	Bottom	3.3	3	2	11:04	22.7		28.6	7.57	6.28	7.9
	HY/2012/08	2017-04-22	Mid-Ebb	Cloudy	Small wave	SR10A	Surface	1	1	1	11:29	22.6		28.3	7.44	6.14	8.1
TMCLKL TMCLKL	HY/2012/08 HY/2012/08	2017-04-22 2017-04-22	Mid-Ebb Mid-Ebb	Cloudy Cloudy	Small wave Small wave		Surface Middle	6.6	2	۲ ۱	11:29 11:29	22.5 22.4		28.3 28.4	7.45 7.53	6.22 6.38	7.8 8.2
TMCLKL	HY/2012/08	2017-04-22	Mid-Ebb	Cloudy		SR10A SR10A	Middle	6.6	2	1	11:29	22.4		20.4 28.3	7.53 7.57	6.31	o.z 8.1
TMCLKL	HY/2012/08	2017-04-22	Mid-Ebb	Cloudy	Small wave		Bottom	0.0 12.1	2	2 1	11:29	22.5		28.6	7.64	6.45	8.1
TMCLKL	HY/2012/08	2017-04-22	Mid-Ebb	Cloudy	Small wave	SR10A	Bottom	12.1	3 3	2	11:29	22.7		28.5	7.61	6.41	8.5
TMCLKL	HY/2012/08	2017-04-22	Mid-Flood	Cloudy	Small wave Small wave	CS4	Surface	1	1	<u>-</u> 1	18:40	22.0		28.5	7.53	5.77	8.3
TMCLKL	HY/2012/08	2017-04-25	Mid-Flood	Cloudy	Small wave	CS4 CS4	Surface	1	1	2	18:40	22.4		20.5 28.5	7.53 7.5	5.86	o.o 8.3
TMCLKL	HY/2012/08	2017-04-25	Mid-Flood	Cloudy	Small wave	CS4 CS4	Middle	9	2	1	18:40	22.5		28.7	7.64	5.93	8.4
TMCLKL	HY/2012/08	2017-04-25	Mid-Flood	Cloudy	Small wave	CS4 CS4	Middle	9 9	2	2	18:40	22.0		28.6	7.67	5.99	8.6
TMCLKL	HY/2012/08	2017-04-25	Mid-Flood	Cloudy	Small wave	CS4 CS4	Bottom	3 16.9	3	1	18:40	22.8		28.9	7.49	5.61	8
TMCLKL	HY/2012/08	2017-04-25	Mid-Flood	Cloudy	Small wave	-	Bottom	16.9	3	2	18:40	22.7		28.8	7.46	5.65	8.2
TMCLKL	HY/2012/08	2017-04-25	Mid-Flood	Cloudy	Small wave	CS6	Surface	10.0	1	1	16:37	22.6		28.6	7.56	6.12	8.7
TMCLKL	HY/2012/08	2017-04-25	Mid-Flood	Cloudy	Small wave	CS6	Surface	1	1	2	16:37	22.5		28.6	7.58	6.18	8.9
TMCLKL	HY/2012/08	2017-04-25	Mid-Flood	Cloudy	Small wave	CS6	Middle	7	2	1	16:37	22.7		28.7	7.61	5.99	8.9
TMCLKL	HY/2012/08	2017-04-25	Mid-Flood	Cloudy	Small wave	CS6	Middle	7	2	2	16:37	22.6		28.6	7.6	6.07	8.7
	HY/2012/08		Mid-Flood	Cloudy				12.9	3	1	16:37		7.82		7.79	5.84	8.7
TMCLKL	HY/2012/08	2017-04-25	Mid-Flood	Cloudy	Small wave	CS6		12.9	3	2		22.4	7.85		7.82	5.91	8.7
TMCLKL	HY/2012/08	2017-04-25	Mid-Flood	Cloudy		IS12	Surface	1	1	1	18:07			28.6	7.46	5.72	7.9
TMCLKL	HY/2012/08	2017-04-25	Mid-Flood	Cloudy	Small wave	IS12	Surface	1	1	2		22.5		28.5	7.49	7.76	7.7
TMCLKL	HY/2012/08	2017-04-25	Mid-Flood	Cloudy	Small wave	IS12		5.8	2	1		22.4		28.7	7.32	5.63	7.7
TMCLKL	HY/2012/08	2017-04-25	Mid-Flood	Cloudy	Small wave	IS12		5.8	2	2		22.4		28.6	7.34	5.54	7.3
TMCLKL	HY/2012/08	2017-04-25	Mid-Flood	Cloudy	Small wave	IS12	Bottom	10.6	3	1	18:07	22.6	7.88		7.56	5.52	7.6
TMCLKL	HY/2012/08	2017-04-25	Mid-Flood	Cloudy	Small wave	IS12	Bottom	10.6	3	2	18:07	22.5	7.86	28.8	7.59	5.59	7.6
TMCLKL	HY/2012/08	2017-04-25	Mid-Flood	Cloudy	Small wave	IS13	Surface	1	1	1	17:51	22.4	7.83	28.5	7.39	6.1	8.6
TMCLKL	HY/2012/08	2017-04-25	Mid-Flood	Cloudy	Small wave	IS13	Surface	1	1	2	17:51	22.4	7.86	28.5	7.38	6.03	8.3
TMCLKL	HY/2012/08	2017-04-25	Mid-Flood	Cloudy	Small wave	IS13	Middle	5.8	2	1	17:51	22.5	7.93	28.6	7.46	5.83	8.2
TMCLKL	HY/2012/08	2017-04-25	Mid-Flood	Cloudy	Small wave	IS13	Middle	5.8	2	2	17:51	22.4	7.94	28.5	7.42	5.88	8.3
TMCLKL	HY/2012/08	2017-04-25	Mid-Flood	Cloudy	Small wave	IS13	Bottom	10.5	3	1	17:51	22.6	7.97	28.8	7.3	5.74	7.9
TMCLKL	HY/2012/08	2017-04-25	Mid-Flood	Cloudy	Small wave		Bottom	10.5	3	2	17:51	22.5	7.99		7.27	5.81	8.2
TMCLKL	HY/2012/08	2017-04-25	Mid-Flood	Cloudy		IS14	Surface	1	1	1		22.6		28.4	7.33	5.91	7.5
TMCLKL	HY/2012/08	2017-04-25	Mid-Flood	Cloudy		IS14	Surface	1	1	2		22.5		28.5	7.3	5.98	7.6
TMCLKL	HY/2012/08	2017-04-25	Mid-Flood	Cloudy	Small wave	IS14		5.9	2	1		22.5		28.6	7.51	5.83	7.3
TMCLKL	HY/2012/08	2017-04-25	Mid-Flood	Cloudy	Small wave	IS14		5.9	2	2		22.4		28.6	7.53	5.89	7.2
TMCLKL	HY/2012/08	2017-04-25	Mid-Flood	Cloudy	Small wave			10.8	3	1		22.7	7.96		7.59	5.67	7
TMCLKL	HY/2012/08	2017-04-25	Mid-Flood	Cloudy				10.8	3	2		22.6		28.6	7.62	5.75	7
TMCLKL	HY/2012/08	2017-04-25	Mid-Flood	Cloudy	Small wave	IS15	Surface	1	1	1		22.6		28.5	7.53	5.68	7.6
TMCLKL	HY/2012/08	2017-04-25	Mid-Flood	Cloudy	Small wave	IS15	Surface	1	1	2		22.5		28.4	7.54	5.61	7.5
TMCLKL	HY/2012/08	2017-04-25	Mid-Flood	Cloudy	Small wave	IS15		4.8	2	1	17:35	22.5		28.2	7.47	5.74	7.7
TMCLKL	HY/2012/08	2017-04-25	Mid-Flood	Cloudy	Small wave	IS15		4.8	2	2		22.4	7.84		7.44	5.79	7.6
TMCLKL	HY/2012/08	2017-04-25	Mid-Flood	Cloudy				8.6	3	1		22.6		28.7	7.21	6.13	8.5
TMCLKL	HY/2012/08	2017-04-25	Mid-Flood	Cloudy	Small wave	IS15		8.6	3	2		22.7	7.93		7.24	6.08	8.2
TMCLKL	HY/2012/08	2017-04-25	Mid-Flood	Cloudy		SR8	Surface	1	1	1		22.5		28.5	7.44	5.74	7.2
TMCLKL	HY/2012/08	2017-04-25	Mid-Flood	Cloudy		SR8	Surface	1	1	2		22.5	7.77	28.4	7.47	5.79	7.4
TMCLKL	HY/2012/08		Mid-Flood	Cloudy		SR8	Middle		2	1	17:08	l	 		ł		_ _ /
TMCLKL	HY/2012/08	2017-04-25	IVIId-Flood	Cloudy	Small wave	SK8	Middle		2	2	17:08	I					_

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	2017-04-25	Mid-Flood	Cloudy	Small wave	SR8	Bottom	4.7	3	1	17:08	22.6	7.84	28.6	7.62	5.98	7.8
TMCLKL	HY/2012/08	2017-04-25	Mid-Flood	Cloudy	Small wave	SR8	Bottom	4.7	3	2	17:08	22.6	7.86	28.5	7.65	6.03	8
TMCLKL	HY/2012/08	2017-04-25	Mid-Flood	Cloudy	Small wave	SR9	Surface	1	1	1	17:21	22.5	7.8	28.6	7.34	5.74	7.2
TMCLKL	HY/2012/08	2017-04-25	Mid-Flood	Cloudy	Small wave	SR9	Surface	1	1	2	17:21	22.4	7.83	28.5	7.36	5.69	7.1
TMCLKL	HY/2012/08	2017-04-25	Mid-Flood	Cloudy	Small wave	SR9	Middle		2	1	17:21						
TMCLKL	HY/2012/08	2017-04-25	Mid-Flood	Cloudy	Small wave	SR9	Middle		2	2	17:21						
TMCLKL	HY/2012/08	2017-04-25	Mid-Flood	Cloudy	Small wave	SR9	Bottom	3.6	3	1	17:21	22.6	7.88	28.7	7.52	5.82	7.3
TMCLKL	HY/2012/08	2017-04-25	Mid-Flood	Cloudy	Small wave	SR9	Bottom	3.6	3	2	17:21	22.5	7.89	28.6	7.5	5.87	7.7
TMCLKL	HY/2012/08	2017-04-25	Mid-Flood	Cloudy	Small wave	SR10A	Surface	1	1	1	16:53	22.5	7.81	28.6	7.32	5.81	7.5
TMCLKL	HY/2012/08	2017-04-25	Mid-Flood	Cloudy	Small wave	SR10A	Surface	1	1	2	16:53	22.4	7.83	28.5	7.35	5.88	7.5
TMCLKL	HY/2012/08	2017-04-25	Mid-Flood	Cloudy	Small wave	SR10A	Middle	6.8	2	1	16:53	22.4	7.89	28.6	7.48	5.67	7.4
TMCLKL	HY/2012/08	2017-04-25	Mid-Flood	Cloudy	Small wave	SR10A	Middle	6.8	2	2	16:53	22.4	7.88	28.7	7.47	5.63	7.4
TMCLKL	HY/2012/08	2017-04-25	Mid-Flood	Cloudy	Small wave	SR10A	Bottom	12.5	3	1	16:53	22.6	7.96	28.8	7.56	5.53	7.2
TMCLKL	HY/2012/08	2017-04-25	Mid-Flood	Cloudy	Small wave	SR10A	Bottom	12.5	3	2	16:53	22.5	7.99	28.7	7.54	5.59	7.3
TMCLKL	HY/2012/08	2017-04-25	Mid-Ebb	Cloudy	Small wave	CS4	Surface	1	1	1	11:45	22.3	7.81	28.3	7.28	6.18	8.9
TMCLKL	HY/2012/08	2017-04-25	Mid-Ebb	Cloudy	Small wave	CS4	Surface	1	1	2	11:45	22.4	7.87	28.4	7.25	6.23	9.1
TMCLKL	HY/2012/08	2017-04-25	Mid-Ebb	Cloudy	Small wave	CS4	Middle	8.8	2	1	11:45	22.4	7.79	28.4	7.27	6.3	8.9
TMCLKL	HY/2012/08	2017-04-25	Mid-Ebb	Cloudy	Small wave	CS4	Middle	8.8	2	2	11:45	22.5	7.82	28.5	7.29	6.36	9.1
TMCLKL	HY/2012/08	2017-04-25	Mid-Ebb	Cloudy	Small wave	CS4	Bottom	16.5	3	1	11:45	22.6	7.94	28.5	7.13	6.45	9.5
TMCLKL	HY/2012/08	2017-04-25	Mid-Ebb	Cloudy	Small wave	CS4	Bottom	16.5	3	2	11:45	22.7	7.96	28.6	7.17	6.49	9.6
TMCLKL	HY/2012/08	2017-04-25	Mid-Ebb	Cloudy	Small wave	CS6	Surface	1	1	1	13:52	22.4	7.93	28.4	7.33	6.08	8.8
TMCLKL	HY/2012/08	2017-04-25	Mid-Ebb	Cloudy	Small wave	CS6	Surface	1	1	2	13:52	22.5	7.99	28.4	7.37	6.11	8.7
TMCLKL	HY/2012/08	2017-04-25	Mid-Ebb	Cloudy	Small wave	CS6	Middle	6.7	2	1	13:52	22.5	7.83	28.5	7.28	6.02	8.7
TMCLKL	HY/2012/08	2017-04-25	Mid-Ebb	Cloudy	Small wave	CS6		6.7	2	2	13:52	22.6		28.6	7.32	6.08	8.7
TMCLKL	HY/2012/08	2017-04-25	Mid-Ebb	Cloudy	Small wave	CS6	Bottom	12.4	3	1	13:52	22.6		28.6	7.43	6.14	8.8
TMCLKL	HY/2012/08	2017-04-25	Mid-Ebb	Cloudy	Small wave	CS6	Bottom	12.4	3	2	13:52	22.7		28.7	7.48	6.19	9.2
	HY/2012/08	2017-04-25	Mid-Ebb	Cloudy			Surface		1	1	12:16		7.89		7.11	6.08	8.2
	HY/2012/08	2017-04-25	Mid-Ebb	Cloudy		IS12	Surface	1	1	2	12:16	22.4		28.5	7.19	6.01	8
TMCLKL	HY/2012/08	2017-04-25	Mid-Ebb	Cloudy	Small wave	IS12	Middle	5.6	2	1	12:16			28.5	7.26	6.16	8.3
TMCLKL		2017-04-25	Mid-Ebb	Cloudy	Small wave	IS12		5.6	2	2		22.6		28.5	7.22	6.12	8.2
TMCLKL	HY/2012/08	2017-04-25	Mid-Ebb	Cloudy	Small wave	IS12		10.2	3	1	-	22.7		28.6	7.37	6.35	8.3
	HY/2012/08	2017-04-25	Mid-Ebb	Cloudy	Small wave	IS12	Bottom	10.2	3	2		22.7		28.7	7.33	6.37	8.5
		2017-04-25	Mid-Ebb	Cloudy	Small wave	IS13	Surface	1	1	1		22.4		28.3	7.17	6.18	8.7
		2017-04-25	Mid-Ebb	Cloudy		IS13	Surface	1	1	2	12:40			28.3	7.13	6.22	8.5
TMCLKL	HY/2012/08	2017-04-25	Mid-Ebb	Cloudy		IS13		5.5	2	1	-	22.4	7.82		7.1	6.04	8.5
		2017-04-25	Mid-Ebb	Cloudy	Small wave	IS13		5.5	2	2	-	22.5		28.4	7.07	6.09	8.4
		2017-04-25	Mid-Ebb	Cloudy	Small wave	IS13		10	3	1		22.6		28.5	7.02	6.01	8.4
	HY/2012/08	2017-04-25	Mid-Ebb	Cloudy	Small wave	IS13		10	3	2	-	22.6		28.6	7.05	6.03	8.4
		2017-04-25	Mid-Ebb	Cloudy	Small wave	IS14	Surface	1	1	1		22.3		28.4	7.24	6.04	7.4
	HY/2012/08	2017-04-25	Mid-Ebb	Cloudy	Small wave	IS14	Surface	1	1	2	-	22.3	7.98		7.28	6.07	7.3
		2017-04-25	Mid-Ebb	Cloudy				5.7	2	1	-	22.3		28.4	7.15	6.31	7.6
	HY/2012/08	2017-04-25	Mid-Ebb	Cloudy	Small wave	IS14		5.7	2	2		22.4		28.5	7.1	6.36	8
TMCLKL	HY/2012/08	2017-04-25	Mid-Ebb	Cloudy	Small wave	IS14	Bottom	10.3	3	1	-	22.5		28.5	7.07	6.48	8
	HY/2012/08	2017-04-25	Mid-Ebb	Cloudy	Small wave	IS14	Bottom	10.3	3	2		22.7		28.5	7.11	6.44	7.8
	HY/2012/08	2017-04-25	Mid-Ebb	Cloudy	Small wave	IS15	Surface	1	1	1	-	22.3		28.3	7.22	6.07	8.4
		2017-04-25	Mid-Ebb	Cloudy		IS15	Surface	1	1	2	-	22.4	7.82		7.26	6.04	8.4
		2017-04-25	Mid-Ebb	Cloudy	Small wave	IS15		4.6	2	1	-	22.4		28.4	7.15	6.13	8.5
TMCLKL	HY/2012/08	2017-04-25	Mid-Ebb	Cloudy	Small wave	IS15		4.6	2	2	12:56	22.5		28.5	7.1	6.18	8.5
	HY/2012/08	2017-04-25	Mid-Ebb	Cloudy	Small wave	IS15		8.2	3	1	12:56	22.6		28.5	7	6.28	8.5
	HY/2012/08	2017-04-25	Mid-Ebb	Cloudy	Small wave	IS15		8.2	3	2	-	22.7		28.5	7.06	6.25	8.7
TMCLKL		2017-04-25	Mid-Ebb	Cloudy		SR8	Surface	1	1	1		22.4		28.4	7.17	6.08	8
	HY/2012/08	2017-04-25	Mid-Ebb	Cloudy		SR8	Surface	1	1	2	-	22.4		28.3	7.17	6.05	7.9
	HY/2012/08	2017-04-25	Mid-Ebb	Cloudy		SR8	Middle	<u> </u>	2	1	13:25		1.1		1	0.00	1.0
		2017-04-25	Mid-Ebb	Cloudy		SR8	Middle		2	2	13:25			1	1		
							Bottom		-	-		00.5	7.00		7.00		8.1
	HY/2012/08	2017-04-25	Mid-Ebb	Cloudy	Small wave	SRX	RUITUM	4.2	3	11	13:25	1// 5	1 X X	28.5	7.26	6.21	8 1

			Tide	Weather	Condition	Stat	Level	Water Depth	Lev_Cod	Replicate	Time	Temp(°C)	рН	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)
THACK I'M	HY/2012/08	2017-04-25	Mid-Ebb	Cloudy	Small wave	SR9	Surface	1	1	1	13:12	22.4	7.86	28.4	7.21	6.01	7.9
TMCLKL	HY/2012/08	2017-04-25	Mid-Ebb	Cloudy	Small wave	SR9	Surface	1	1	2	13:12	22.4	7.89	28.5	7.28	6.07	7.6
TMCLKL	HY/2012/08	2017-04-25	Mid-Ebb	Cloudy	Small wave	SR9	Middle		2	1	13:12						
TMCLKL	HY/2012/08	2017-04-25	Mid-Ebb	Cloudy	Small wave	SR9	Middle		2	2	13:12						
TMCLKL	HY/2012/08	2017-04-25	Mid-Ebb	Cloudy	Small wave	SR9	Bottom	3.1	3	1	13:12	22.4	7.81	28.3	7.3	6.17	7.8
TMCLKL	HY/2012/08	2017-04-25	Mid-Ebb	Cloudy	Small wave	SR9	Bottom	3.1	3	2	13:12	22.5	7.88	28.4	7.34	6.2	8.1
TMCLKL	HY/2012/08	2017-04-25	Mid-Ebb	Cloudy	Small wave	SR10A	Surface	1	1	1	13:38	22.4	7.85	28.2	7.27	6.04	7.6
TMCLKL	HY/2012/08	2017-04-25	Mid-Ebb	Cloudy	Small wave	SR10A	Surface	1	1	2	13:38	22.5	7.89	28.3	7.22	6.06	7.8
TMCLKL I	HY/2012/08	2017-04-25	Mid-Ebb	Cloudy	Small wave	SR10A	Middle	6.6	2	1	13:38	22.5	7.84	28.4	7.16	5.89	7.7
TMCLKL I	HY/2012/08	2017-04-25	Mid-Ebb	Cloudy	Small wave	SR10A	Middle	6.6	2	2	13:38	22.6	7.88	28.4	7.19	5.92	7.9
TMCLKL I	HY/2012/08	2017-04-25	Mid-Ebb	Cloudy	Small wave	SR10A	Bottom	12.1	3	1	13:38	22.7	7.92	28.5	7.34	5.96	7.7
TMCLKL	HY/2012/08	2017-04-25	Mid-Ebb	Cloudy	Small wave	SR10A	Bottom	12.1	3	2	13:38	22.7	7.96	28.6	7.38	6.03	7.9
TMCLKL	HY/2012/08	2017-04-27	Mid-Flood	Cloudy	Small wave	CS4	Surface	1	1	1	20:32	22.6	7.85	28.4	7.32	6.18	9
TMCLKL	HY/2012/08	2017-04-27	Mid-Flood	Cloudy	Small wave	CS4	Surface	1	1	2	20:32	22.5	7.81	28.4	7.38	6.11	9
TMCLKL	HY/2012/08	2017-04-27	Mid-Flood	Cloudy	Small wave	CS4	Middle	8.8	2	1	20:32	22.7	7.92	28.6	7.22	6.23	9
TMCLKL	HY/2012/08	2017-04-27	Mid-Flood	Cloudy	Small wave	CS4	Middle	8.8	2	2	20:32	22.6	7.94	28.5	7.2	6.28	8.9
TMCLKL	HY/2012/08	2017-04-27	Mid-Flood	Cloudy	Small wave	CS4	Bottom	16.6	3	1	20:32	22.9	7.87	28.8	7.46	6.43	9.4
TMCLKL	HY/2012/08	2017-04-27	Mid-Flood	Cloudy	Small wave	CS4	Bottom	16.6	3	2	20:32	22.8	7.89	28.9	7.45	6.36	9.4
TMCLKL	HY/2012/08	2017-04-27	Mid-Flood	Cloudy	Small wave	CS6	Surface	1	1	1	18:19	22.7	7.84	28.7	7.35	6.29	9.2
TMCLKL	HY/2012/08	2017-04-27	Mid-Flood	Cloudy		CS6	Surface	1	1	2	18:19	22.6	7.81	28.8	7.36	6.22	8.9
TMCLKL	HY/2012/08	2017-04-27	Mid-Flood	Cloudy	Small wave	CS6	Middle	6.9	2	1	18:19	22.8	7.92	28.9	7.43	6.46	9.3
TMCLKL	HY/2012/08	2017-04-27	Mid-Flood	Cloudy	Small wave	CS6	Middle	6.9	2	2	18:19	22.8	7.94	28.9	7.44	6.52	9.6
TMCLKL	HY/2012/08	2017-04-27	Mid-Flood	Cloudy	Small wave	CS6	Bottom	12.7	3	1	18:19	22.9	7.71	29.1	7.51	6.38	9.1
TMCLKL	HY/2012/08	2017-04-27	Mid-Flood	Cloudy		CS6	Bottom	12.7	3	2	18:19	22.8	7.72	29	7.54	6.31	9.1
	HY/2012/08	2017-04-27	Mid-Flood	Cloudy		IS12	Surface	1	1	1	19:51	22.6	7.89		7.13	6.04	8.4
	HY/2012/08	2017-04-27	Mid-Flood	Cloudy	Small wave	IS12	Surface	1	1	2	19:51	22.5		28.5	7.16	5.97	8.3
			Mid-Flood	Cloudy				5.9	2	1	19:51		7.93		7.27	6.01	8.3
			Mid-Flood	Cloudy		IS12		5.9	2	2		22.6	7.96		7.25	6.09	8.3
			Mid-Flood	Cloudy		IS12		10.8	3	1		22.8		28.8	7.33	6.23	8.5
			Mid-Flood	Cloudy		IS12	-	10.8	3	2		22.7		28.7	7.32	6.27	8.3
			Mid-Flood	Cloudy		IS13	Surface	1	1	1	19:37	22.5			7.27	6.05	8.5
	HY/2012/08	2017-04-27	Mid-Flood	Cloudy			Surface	1	1	2	19:37	22.6		28.5	7.29	5.97	8
	HY/2012/08	2017-04-27	Mid-Flood	Cloudy		IS13		5.6	2	1	19:37	22.7		28.7	7.2	6.13	8.3
			Mid-Flood	Cloudy		IS13		5.6	2	2	19:37	22.6		28.6	7.22	6.19	8.5
			Mid-Flood	Cloudy		IS13		10.1	3	1		22.8			7.46	5.82	8.2
			Mid-Flood	Cloudy		IS13		10.1	3	2		22.7			7.49	5.88	8.2
			Mid-Flood	Cloudy		IS14	Surface	1	1	1	20:16	22.5		28.5	7.21	5.82	7.3
	HY/2012/08	2017-04-27	Mid-Flood	Cloudy		IS14	Surface	1	1	2	20:16	22.4		28.6	7.24	5.85	7.3
	HY/2012/08		Mid-Flood	Cloudy		IS14		5.7	2	1	20:16	22.6			7.09	6.09	7.7
	HY/2012/08		Mid-Flood	Cloudy		IS14		5.7	2	2		22.5		28.6	7.07	6.13	7.8
			Mid-Flood	Cloudy		IS14		10.3	3	1		22.7	8.05		7.29	6.32	7.7
	HY/2012/08		Mid-Flood	Cloudy		IS14		10.3	3	2		22.6		28.7	7.32	6.38	7.7
		2017-04-27	Mid-Flood	Cloudy		IS15	Surface	1	1	1		22.5		28.4	7.36	5.86	7.7
		2017-04-27	Mid-Flood	Cloudy		IS15	Surface	1	1	2	19:18	22.4		28.5	7.35	5.78	7.8
		2017-04-27	Mid-Flood	Cloudy		IS15		4.7	2	1	19:18	22.6		28.6	7.42	6.03	8
			Mid-Flood	Cloudy		IS15	-	4.7	2	2		22.5			7.45	6.09	8.5
			Mid-Flood	Cloudy		IS15	-	8.4	3	1	19:18	22.7			7.12	6.21	8.3
			Mid-Flood	Cloudy		IS15		8.4	3	2	19:18	22.6			7.12	6.27	8.3
	HY/2012/08	2017-04-27	Mid-Flood	Cloudy		SR8	Surface	1	1	1		22.6		28.7	7.26	5.87	7.6
	HY/2012/08	2017-04-27	Mid-Flood	Cloudy		SR8	Surface	1	1	2	18:51	22.6	7.76		7.29	5.82	7.7
			Mid-Flood	Cloudy		SR8	Middle	 	2	-	18:51		1.10	<u> </u>	1.20		+
			Mid-Flood	Cloudy		SR8	Middle		2	2	18:51						+
			Mid-Flood	Cloudy		SR8		4.9	3	1		22.7	7.84	28.8	7.32	6.02	7.9
	HY/2012/08	2017-04-27	Mid-Flood	Cloudy		SR8		4.9 4.9	3	2		22.7		28.7	7.36	6.07	8
			Mid-Flood	Cloudy			Surface	т. . 1	1	1		22.0		28.5	7.23	5.96	o 7.4
TMCLKL		- / / / /		Ciouuy		013	ounace	1	1	1	19:05		7.85		7.23 7.27	5.92	7.4

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	2017-04-27	Mid-Flood	Cloudy	Small wave	SR9	Middle	•	2	1	19:05						
TMCLKL	HY/2012/08	2017-04-27	Mid-Flood	Cloudy	Small wave	SR9	Middle		2	2	19:05						
TMCLKL	HY/2012/08	2017-04-27	Mid-Flood	Cloudy	Small wave	SR9	Bottom	3.2	3	1	19:05	22.6	7.92	28.6	7.38	6.18	7.8
TMCLKL	HY/2012/08	2017-04-27	Mid-Flood	Cloudy	Small wave	SR9	Bottom	3.2	3	2	19:05	22.6	7.94		7.39	6.1	8
TMCLKL	HY/2012/08	2017-04-27	Mid-Flood	Cloudy	Small wave	SR10A	Surface	1	1	1	18:35	22.7	7.89		7.19	5.94	7.9
TMCLKL	HY/2012/08	2017-04-27	Mid-Flood	Cloudy	Small wave	SR10A	Surface	1	1	2	18:35	22.6			7.18	5.89	7.7
TMCLKL	HY/2012/08	2017-04-27	Mid-Flood	Cloudy	Small wave	SR10A		6.6	2	1	18:35	22.6	7.83		7.33	6.02	7.8
TMCLKL	HY/2012/08	2017-04-27	Mid-Flood	Cloudy	Small wave	SR10A		6.6	2	2	18:35	22.5	7.8		7.36	6.08	8
TMCLKL	HY/2012/08	2017-04-27	Mid-Flood	Cloudy	Small wave	SR10A	Bottom	12.2	3	1	18:35	22.8	7.95		7.42	6.17	8.1
TMCLKL	HY/2012/08	2017-04-27	Mid-Flood	Cloudy	Small wave	SR10A	Bottom	12.2	3	2	18:35	22.9	7.91		7.44	6.12	7.7
TMCLKL	HY/2012/08	2017-04-27	Mid-Ebb	Cloudy	Small wave	CS4	Surface	1	1	1	12:49	22.4			7.19	6.24	9
	HY/2012/08	2017-04-27	Mid-Ebb	Cloudy		CS4	Surface		1 2	2	12:49	22.5	7.89		7.14	6.29	8.9
	HY/2012/08	2017-04-27	Mid-Ebb	Cloudy		CS4		8.6 8.6	2	1	12:49	22.5	7.85 7.88		7.18	6.36	9.1
TMCLKL TMCLKL	HY/2012/08 HY/2012/08	2017-04-27 2017-04-27	Mid-Ebb Mid-Ebb	Cloudy Cloudy		CS4 CS4		8.6 16.2	2	۲ ۱	12:49 12:49	22.6 22.6	7.00 8		7.2 7.04	6.42	9.1 9.2
TMCLKL	HY/2012/08	2017-04-27	Mid-Ebb	Cloudy	Small wave	CS4 CS4	Bottom Bottom	16.2	ა ვ	2	12:49	22.6	o 8.02		7.04 7.08	6.51 6.55	9.2 9.5
TMCLKL	HY/2012/08	2017-04-27	Mid-Ebb	Cloudy	Small wave Small wave	CS4 CS6	Surface	10.2	J 1	2	15:07	22.0	7.99		7.08	6.14	9.3 9.2
TMCLKL	HY/2012/08	2017-04-27	Mid-Ebb	Cloudy		CS6	Surface	1	1	2	15:07	22.0	7.99 8.05		7.24	6.17	9.1
TMCLKL	HY/2012/08	2017-04-27	Mid-Ebb	Cloudy		CS6		6.6	2	1	15:07	22.8	7.89		7.19	6.08	8.9
TMCLKL	HY/2012/08	2017-04-27	Mid-Ebb	Cloudy		CS6		6.6	2	2	15:07	22.0	7.94		7.23	6.14	9.1
TMCLKL	HY/2012/08	2017-04-27	Mid-Ebb	Cloudy	Small wave	CS6	Bottom	12.2	2	1	15:07	22.8	7.84		7.34	6.2	9.1
TMCLKL	HY/2012/08	2017-04-27	Mid-Ebb	Cloudy	Small wave	CS6	Bottom	12.2	3	2	15:07	22.9	7.87		7.39	6.25	9.3
TMCLKL	HY/2012/08	2017-04-27	Mid-Ebb	Cloudy	Small wave	IS12	Surface	12.2	1	1	13:23	22.6			7.02	6.14	8.4
TMCLKL	HY/2012/08	2017-04-27	Mid-Ebb	Cloudy	Small wave	IS12	Surface	1	1	2	13:23	22.5	7.89		7.1	6.08	8.3
TMCLKL	HY/2012/08	2017-04-27	Mid-Ebb	Cloudy	Small wave	IS12		5.7	2	1	13:23	22.6	7.76		7.17	6.22	8.4
TMCLKL	HY/2012/08	2017-04-27	Mid-Ebb	Cloudy	Small wave	IS12		5.7	2	2	13:23	22.7	7.8		7.13	6.18	8.4
	HY/2012/08		Mid-Ebb	Cloudy				10.4	3	1	13:23		7.99		7.28	6.41	8.7
TMCLKL	HY/2012/08	2017-04-27	Mid-Ebb	Cloudy		IS12		10.4	3	2		22.8			7.24	6.43	8.8
TMCLKL	HY/2012/08	2017-04-27	Mid-Ebb	Cloudy		IS13	Surface	1	1	1	-	22.4			7.08	6.24	8.7
TMCLKL	HY/2012/08	2017-04-27	Mid-Ebb	Cloudy		IS13	Surface	1	1	2		22.5			7.04	6.28	8.8
TMCLKL	HY/2012/08	2017-04-27	Mid-Ebb	Cloudy		IS13		5.3	2	1	-	22.5			7.01	6.1	8.2
TMCLKL	HY/2012/08	2017-04-27	Mid-Ebb	Cloudy		IS13		5.3	2	2		22.6			6.98	6.15	8.5
TMCLKL	HY/2012/08	2017-04-27	Mid-Ebb	Cloudy	Small wave	IS13		9.6	3	1		22.7			6.93	6.07	8.5
TMCLKL	HY/2012/08	2017-04-27	Mid-Ebb	Cloudy	Small wave	IS13	Bottom	9.6	3	2	13:40	22.6	8	28.5	6.96	6.09	8.5
TMCLKL	HY/2012/08	2017-04-27	Mid-Ebb	Cloudy	Small wave	IS14	Surface	1	1	1	13:06	22.5	7.98	28.6	7.15	6.1	7.8
TMCLKL	HY/2012/08	2017-04-27	Mid-Ebb	Cloudy	Small wave	IS14	Surface	1	1	2	13:06	22.6	8.04	28.6	7.19	6.13	7.8
TMCLKL	HY/2012/08	2017-04-27	Mid-Ebb	Cloudy	Small wave	IS14	Middle	5.4	2	1	13:06	22.6	7.88	28.6	7.06	6.37	8.1
TMCLKL	HY/2012/08	2017-04-27	Mid-Ebb	Cloudy	Small wave	IS14	Middle	5.4	2	2	13:06	22.5	7.92	28.7	7.01	6.42	8.1
TMCLKL	HY/2012/08	2017-04-27	Mid-Ebb	Cloudy	Small wave	IS14	Bottom	9.8	3	1	13:06	22.6	8.01	28.7	6.98	6.54	8.1
TMCLKL	HY/2012/08	2017-04-27	Mid-Ebb	Cloudy	Small wave	IS14	Bottom	9.8	3	2	13:06	22.7	8.05		7.02	6.5	7.9
TMCLKL	HY/2012/08	2017-04-27	Mid-Ebb	Cloudy		IS15	Surface	1	1	1		22.3			7.13	6.13	8.5
TMCLKL	HY/2012/08	2017-04-27	Mid-Ebb	Cloudy	Small wave	IS15	Surface	1	1	2	-	22.3	8		7.17	6.1	8.3
TMCLKL	HY/2012/08	2017-04-27	Mid-Ebb	Cloudy	Small wave	IS15		4.4	2	1		22.4			7.06	6.19	8.3
TMCLKL	HY/2012/08	2017-04-27	Mid-Ebb	Cloudy		IS15		4.4	2	2	-	22.3			7.01	6.24	8.5
TMCLKL	HY/2012/08	2017-04-27	Mid-Ebb	Cloudy		IS15		7.8	3	1		22.3	7.98		6.91	6.34	8.5
TMCLKL	HY/2012/08	2017-04-27	Mid-Ebb	Cloudy		IS15		7.8	3	2		22.4	8.03		6.97	6.31	8.3
TMCLKL	HY/2012/08	2017-04-27	Mid-Ebb	Cloudy		SR8	Surface	1	1	1	-	22.4			7.08	6.14	7.9
TMCLKL	HY/2012/08	2017-04-27	Mid-Ebb	Cloudy		SR8	Surface	1	1	2		22.5	7.76	28.6	7.02	6.11	7.7
TMCLKL	HY/2012/08	2017-04-27	Mid-Ebb	Cloudy		SR8	Middle		2	1	14:31	l	 		ļ		┥───┤
	HY/2012/08	2017-04-27	Mid-Ebb	Cloudy		SR8	Middle	2.0	2	2	14:31	22.5	7.00	00.7	7 4 7	6.07	
	HY/2012/08	2017-04-27	Mid-Ebb	Cloudy		SR8		3.6	ა ი		14:31				7.17	6.27	8.3
	HY/2012/08	2017-04-27	Mid-Ebb	Cloudy		SR8		3.6	3 1	2	-	22.6			7.11	6.23	8.1
	HY/2012/08	2017-04-27	Mid-Ebb	Cloudy		SR9	Surface	1	1	2		22.3			7.12	6.07	7.8 °
	HY/2012/08	2017-04-27	Mid-Ebb Mid-Ebb	Cloudy		SR9	Surface Middle	1	2	<u>د</u> 1	-	22.4	7.95	28.2	7.19	6.13	8
	HY/2012/08 HY/2012/08	2017-04-27 2017-04-27		Cloudy Cloudy	Small wave Small wave	SR9	Middle Middle		2	2	14:14 14:14			1			╉────┥
	111/2012/Uð	2017-04-27	ממש-מוואו	Ciouuy	Sinali wave	9179	INITUALIE		۷	2	14.14		Í				

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	2017-04-27	Mid-Ebb	Cloudy	Small wave	SR9	Bottom	2.8	3	1	14:14	22.5	7.87	28.3	7.21	6.23	7.9
TMCLKL	HY/2012/08	2017-04-27	Mid-Ebb	Cloudy	Small wave	SR9	Bottom	2.8	3	2	14:14	22.6	7.94	28.4	7.25	6.26	8.2
TMCLKL	HY/2012/08	2017-04-27	Mid-Ebb	Cloudy	Small wave	SR10A	Surface	1	1	1	14:48	22.6	7.92	28.4	7.18	6.1	8.1
TMCLKL	HY/2012/08	2017-04-27	Mid-Ebb	Cloudy	Small wave	SR10A	Surface	1	1	2	14:48	22.5	7.95	28.5	7.13	6.12	7.9
TMCLKL	HY/2012/08	2017-04-27	Mid-Ebb	Cloudy	Small wave	SR10A	Middle	6.4	2	1	14:48	22.6	7.9	28.5	7.07	5.95	7.7
TMCLKL	HY/2012/08	2017-04-27	Mid-Ebb	Cloudy	Small wave	SR10A	Middle	6.4	2	2	14:48	22.7	7.94	28.6	7.1	5.98	7.6
TMCLKL	HY/2012/08	2017-04-27	Mid-Ebb	Cloudy	Small wave	SR10A	Bottom	11.8	3	1	14:48	22.7	7.98	28.6	7.25	6.02	7.7
TMCLKL	HY/2012/08	2017-04-27	Mid-Ebb	Cloudy	Small wave	SR10A	Bottom	11.8	3	2	14:48	22.8	8.02	28.7	7.29	6.09	7.9
TMCLKL	HY/2012/08	2017-04-29	Mid-Flood	Cloudy	Small wave	CS4	Surface	1	1	1	09:50	23	7.77	29	6.77	6.56	9.7
TMCLKL	HY/2012/08	2017-04-29	Mid-Flood	Cloudy	Small wave	CS4	Surface	1	1	2	09:50	23	7.81	29	6.8	6.49	9.3
TMCLKL	HY/2012/08	2017-04-29	Mid-Flood	Cloudy	Small wave	CS4	Middle	8.9	2	1	09:50	22.9	7.8	29.2	6.72	6.7	9.7
TMCLKL	HY/2012/08	2017-04-29	Mid-Flood	Cloudy	Small wave	CS4	Middle	8.9	2	2	09:50	22.9	7.84	29.2	6.69	6.78	9.7
TMCLKL	HY/2012/08	2017-04-29	Mid-Flood	Cloudy	Small wave	CS4	Bottom	16.8	3	1	09:50	22.9	7.79	29.3	6.99	6.99	10.1
TMCLKL	HY/2012/08	2017-04-29	Mid-Flood	Cloudy	Small wave	CS4	Bottom	16.8	3	2	09:50	22.8	7.82		7.03	7.07	10.2
TMCLKL	HY/2012/08	2017-04-29	Mid-Flood	Cloudy	Small wave	CS6	Surface	1	1	1	07:40	22.9			7.08	6.58	9.6
TMCLKL	HY/2012/08	2017-04-29	Mid-Flood	Cloudy	Small wave	CS6	Surface	1	1	2	07:40	22.9			7.11	6.64	9.5
TMCLKL	HY/2012/08	2017-04-29	Mid-Flood	Cloudy	Small wave	CS6	Middle	7	2	1	07:40	22.8	7.8		7.23	6.87	10.2
TMCLKL	HY/2012/08	2017-04-29	Mid-Flood	Cloudy	Small wave	CS6	Middle	7	2	2	07:40	22.9	7.84		7.26	6.92	10.3
TMCLKL	HY/2012/08	2017-04-29	Mid-Flood	Cloudy	Small wave	CS6	Bottom	12.9	3	1	07:40	22.8	7.87		7.04	6.27	9.2
TMCLKL	HY/2012/08	2017-04-29	Mid-Flood	Cloudy	Small wave	CS6	Bottom	12.9	3	2	07:40	22	7.9		7.01	6.34	9.4
TMCLKL	HY/2012/08	2017-04-29	Mid-Flood	Cloudy	Small wave	IS12	Surface	1	1	1	09:18	23			6.76	6.33	8.7
TMCLKL	HY/2012/08	2017-04-29	Mid-Flood	Cloudy	Small wave	IS12	Surface	1	1	2	09:18	23	7.8		6.79	6.41	8.7
TMCLKL	HY/2012/08	2017-04-29	Mid-Flood	Cloudy	Small wave	IS12		5.9	2	1	09:18	22.9	7.84		6.82	6.48	8.9
TMCLKL	HY/2012/08	2017-04-29	Mid-Flood	Cloudy	Small wave	IS12 IS12	Middle	5.9	2	2	09:10	22.9	7.81		6.85	6.55	8.8
TMCLKL	HY/2012/08	2017-04-29	Mid-Flood	Cloudy	Small wave	IS12 IS12	Bottom	10.8	2	1	09:18	22.8	7.87		6.97	6.9	9.1
TMCLKL	HY/2012/08	2017-04-29	Mid-Flood	Cloudy	Small wave	IS12 IS12	Bottom	10.8	3	2	09:18	22.8	7.9		6.95	6.82	9.3
TMCLKL	HY/2012/08		Mid-Flood	Cloudy		IS12 IS13	Surface	10.0	J 1	2		22.0	7.9 7.86		6.88	6.22	8.7
								1	1	2							
	HY/2012/08	2017-04-29	Mid-Flood	Cloudy		IS13	Surface	Г Г С	1	4	09:00	23			6.84 6.9	6.31	8.9 9.1
	HY/2012/08	2017-04-29	Mid-Flood	Cloudy		IS13		5.6 5.6	2	2	09:00	22.9			6.96	6.53	
TMCLKL	HY/2012/08	2017-04-29	Mid-Flood	Cloudy	Small wave	IS13		5.6	2	2	09:00	22.9				6.59	9
TMCLKL	HY/2012/08	2017-04-29	Mid-Flood	Cloudy	Small wave	IS13	Bottom	10.2	3	1	09:00	22.9			6.98	6.8	9.6
TMCLKL	HY/2012/08	2017-04-29	Mid-Flood	Cloudy	Small wave	IS13	Bottom	10.2	3	2	09:00	22.8			6.94	6.73	9.3
TMCLKL	HY/2012/08	2017-04-29	Mid-Flood	Cloudy	Small wave	IS14	Surface	1	1	1	09:34	23			6.85	6.44	7.9
TMCLKL	HY/2012/08	2017-04-29	Mid-Flood	Cloudy		IS14	Surface	1	1	2		23			6.81	6.5	8.1
TMCLKL	HY/2012/08	2017-04-29	Mid-Flood	Cloudy		IS14		5.6	2	1	09:34	22.9			6.77	6.73	8.4
TMCLKL	HY/2012/08	2017-04-29	Mid-Flood	Cloudy	Small wave	IS14		5.6	2	2	09:34	22.9			6.74	6.66	8
TMCLKL	HY/2012/08	2017-04-29	Mid-Flood	Cloudy	Small wave	IS14	Bottom	10.2	3	1	09:34	22.9			6.88	6.94	8.4
TMCLKL	HY/2012/08	2017-04-29	Mid-Flood	Cloudy	Small wave	IS14	Bottom	10.2	3	2	09:34	22.8			6.92	7.01	9
TMCLKL	HY/2012/08	2017-04-29	Mid-Flood	Cloudy		IS15	Surface	1	1	1	08:40	22.9			6.84	6.16	8.6
TMCLKL	HY/2012/08	2017-04-29	Mid-Flood	Cloudy	Small wave	IS15	Surface	1	1	2	08:40	23			6.87	6.24	8.3
TMCLKL	HY/2012/08	2017-04-29	Mid-Flood	Cloudy	Small wave	IS15		4.8	2	1	08:40	22.9	7.8		6.93	6.4	8.7
TMCLKL	HY/2012/08	2017-04-29	Mid-Flood	Cloudy	Small wave	IS15	Middle	4.8	2	2	08:40	22.9			6.95	6.48	8.8
TMCLKL	HY/2012/08	2017-04-29	Mid-Flood	Cloudy	Small wave	IS15		8.5	3	1	08:40	22.8			6.78	6.7	9.3
TMCLKL	HY/2012/08	2017-04-29	Mid-Flood	Cloudy		IS15		8.5	3	2	08:40	22.8	7.8		6.76	6.63	9
TMCLKL	HY/2012/08	2017-04-29	Mid-Flood	Cloudy		SR8	Surface	1	1	1		22.9			6.96	5.94	7.6
TMCLKL	HY/2012/08	2017-04-29	Mid-Flood	Cloudy	Small wave	SR8	Surface	1	1	2	08:17	23	7.8	29.1	6.91	6.01	7.6
TMCLKL	HY/2012/08	2017-04-29	Mid-Flood	Cloudy	Small wave	SR8	Middle		2	1	08:17						
TMCLKL	HY/2012/08	2017-04-29	Mid-Flood	Cloudy	Small wave	SR8	Middle		2	2	08:17						
TMCLKL	HY/2012/08	2017-04-29	Mid-Flood	Cloudy	Small wave	SR8	Bottom	4	3	1	08:17	22.9			7.07	6.33	8.3
TMCLKL	HY/2012/08	2017-04-29	Mid-Flood	Cloudy	Small wave	SR8	Bottom	4	3	2	08:17	22.9	7.82		7.1	6.41	8.1
TMCLKL	HY/2012/08	2017-04-29	Mid-Flood	Cloudy	Small wave	SR9	Surface	1	1	1	08:29	22.9	7.78	29	6.89	6.08	8
TMCLKL	HY/2012/08	2017-04-29	Mid-Flood	Cloudy	Small wave	SR9	Surface	1	1	2	08:29	23	7.81	28.8	6.92	6.13	8
TMCLKL	HY/2012/08	2017-04-29	Mid-Flood	Cloudy	Small wave	SR9	Middle		2	1	08:29						
TMCLKL	HY/2012/08	2017-04-29	Mid-Flood	Cloudy	Small wave	SR9	Middle		2	2	08:29						
TMCLKL	HY/2012/08		Mid-Flood	Cloudy		SR9	Bottom	3.4	3	1	08:29	22.9	7.83	28.9	6.99	6.27	8.1
		2017-04-29		Cloudy	Small wave		Bottom		3	2	08:29		7.85		7.03	6.34	8.2

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	2017-04-29	Mid-Flood	Cloudy	Small wave	SR10A	Surface	1	1	1	08:01	22.9	7.8	29	6.89	6.29	8.1
TMCLKL	HY/2012/08	2017-04-29	Mid-Flood	Cloudy	Small wave	SR10A	Surface	1	1	2	08:01	22.9	7.77	29	6.93	6.33	8.1
TMCLKL	HY/2012/08	2017-04-29	Mid-Flood	Cloudy	Small wave	SR10A	Middle	6.7	2	1	08:01	22.9	7.84	29	7	6.58	8.5
TMCLKL	HY/2012/08	2017-04-29	Mid-Flood	Cloudy	Small wave	SR10A	Middle	6.7	2	2	08:01	22.8	7.81	29.1	7.03	6.67	8.8
TMCLKL	HY/2012/08	2017-04-29	Mid-Flood	Cloudy	Small wave	SR10A	Bottom	12.4	3	1	08:01	22.8	7.86	29.3	6.83	6.2	7.9
TMCLKL	HY/2012/08	2017-04-29	Mid-Flood	Cloudy	Small wave	SR10A	Bottom	12.4	3	2	08:01	22.8	7.89	29.2	6.8	6.14	7.7
TMCLKL	HY/2012/08	2017-04-29	Mid-Ebb	Cloudy	Small wave	CS4	Surface	1	1	1	13:19	23.2			6.54	6.71	9.8
TMCLKL	HY/2012/08	2017-04-29	Mid-Ebb	Cloudy	Small wave	CS4	Surface	1	1	2	13:19	23.2			6.57	6.77	9.5
TMCLKL	HY/2012/08	2017-04-29	Mid-Ebb	Cloudy	Small wave	CS4		8.8	2	1	13:19	23.2			6.62	6.85	9.8
TMCLKL	HY/2012/08	2017-04-29	Mid-Ebb	Cloudy	Small wave	CS4	Middle	8.8	2	2	13:19	23.1			6.6	6.89	9.7
TMCLKL	HY/2012/08	2017-04-29	Mid-Ebb	Cloudy	Small wave	CS4	Bottom	16.5	3	1	13:19	23.1			6.83	6.98	9.9
TMCLKL	HY/2012/08	2017-04-29	Mid-Ebb	Cloudy	Small wave	CS4	Bottom	16.5	3	2	13:19	23.1	7.89		6.86	7.04	10.1
TMCLKL	HY/2012/08	2017-04-29	Mid-Ebb	Cloudy	Small wave	CS6	Surface	1	1	1	15:35	23.3	7.88		7.03	6.87	9.9
TMCLKL	HY/2012/08	2017-04-29	Mid-Ebb	Cloudy	Small wave	CS6	Surface	1	1	2	15:35	23.2	7.92		7.05	6.8	9.9
TMCLKL	HY/2012/08	2017-04-29	Mid-Ebb	Cloudy	Small wave	CS6	Middle	6.8	2	1	15:35	23.1			7.16	6.92	10
TMCLKL	HY/2012/08	2017-04-29	Mid-Ebb	Cloudy	Small wave	CS6	Middle	6.8	2	2	15:35	23			7.19	6.99	9.9
TMCLKL	HY/2012/08	2017-04-29	Mid-Ebb	Cloudy	Small wave	CS6	Bottom	12.5	3	1	15:35	22.9	7.84	29.3	7	6.47	9.7
TMCLKL	HY/2012/08	2017-04-29	Mid-Ebb	Cloudy	Small wave	CS6	Bottom	12.5	3	2	15:35	22.9			7.08	6.44	9.6
TMCLKL	HY/2012/08	2017-04-29	Mid-Ebb	Cloudy	Small wave	IS12	Surface	1	1	1	13:54	23.2	7.89		6.57	6.44	8.5
TMCLKL	HY/2012/08	2017-04-29	Mid-Ebb	Cloudy	Small wave	IS12	Surface	1	1	2	13:54	23.2	7.93		6.55	6.5	9
TMCLKL	HY/2012/08	2017-04-29	Mid-Ebb	Cloudy	Small wave	IS12 IS12	Middle	5.8	2	1	13:54	23.2			6.72	6.59	9 8.7
TMCLKL	HY/2012/08	2017-04-29	Mid-Ebb	Cloudy		IS12 IS12	Middle	5.8	2	2	13:54	23.1	7.7		6.77 6.77	6.64	8.7
TMCLKL	HY/2012/08	2017-04-29	Mid-Ebb		Small wave	IS12 IS12	Bottom	5.8 10.5	2	2	13:54	23.1	7.62		6.84	6.98	9.6
				Cloudy Cloudy	Small wave	-			ა ა	1					6.89		9.0
	HY/2012/08	2017-04-29	Mid-Ebb		Small wave	IS12	Bottom	10.5	3	4	13:54	23.1				7.07	
	HY/2012/08	2017-04-29	Mid-Ebb	Cloudy	Small wave	IS13	Surface	1	1		14:12	23.2	7.85		6.75	6.38	8.8
	HY/2012/08	2017-04-29	Mid-Ebb	Cloudy	Small wave	IS13	Surface	1	1	2	14:12	23.2			6.78	6.44	8.9
			Mid-Ebb	Cloudy				5.5	2	1	14:12		7.61		6.64	6.67	9.4
	HY/2012/08	2017-04-29	Mid-Ebb	Cloudy		IS13		5.5	2	2		23.1			6.68	6.7	9.2
	HY/2012/08	2017-04-29	Mid-Ebb	Cloudy		IS13		10	3	1		23			6.82	6.86	9.7
	HY/2012/08	2017-04-29	Mid-Ebb	Cloudy	Small wave	IS13		10	3	2	-	22.9			6.87	6.85	9.7
	HY/2012/08	2017-04-29	Mid-Ebb	Cloudy	Small wave	IS14	Surface	1	1	1		23.2	7.85		6.61	6.53	8.1
	HY/2012/08	2017-04-29	Mid-Ebb	Cloudy	Small wave	IS14	Surface	1	1	2		23.3	7.89		6.65	6.58	8.3
	HY/2012/08	2017-04-29	Mid-Ebb	Cloudy	Small wave			5.5	2	1		23.2	7.76		6.52	6.82	8.2
	HY/2012/08	2017-04-29	Mid-Ebb	Cloudy		IS14		5.5	2	2		23.2			6.56	6.84	8.6
	HY/2012/08	2017-04-29	Mid-Ebb	Cloudy		IS14		9.9	3	1		23.1			6.78	6.99	8.8
	HY/2012/08	2017-04-29	Mid-Ebb	Cloudy	Small wave	IS14		9.9	3	2		23.1			6.76	7.05	9
	HY/2012/08	2017-04-29	Mid-Ebb	Cloudy	Small wave	IS15	Surface	1	1	1	14:30	23.2			6.72	6.23	8.6
	HY/2012/08	2017-04-29	Mid-Ebb	Cloudy	Small wave	IS15	Surface	1	1	2	14:30	23.3			6.74	6.27	8.3
	HY/2012/08	2017-04-29	Mid-Ebb	Cloudy		IS15		4.7	2	1	14:30	23.3			6.88	6.48	8.9
	HY/2012/08	2017-04-29	Mid-Ebb	Cloudy		IS15		4.7	2	2		23.3			6.8	6.51	8.9
	HY/2012/08	2017-04-29	Mid-Ebb	Cloudy		IS15		8.3	3	1		23.2			6.65	6.87	9.4
	HY/2012/08	2017-04-29	Mid-Ebb	Cloudy	Small wave	IS15		8.3	3	2		23.1			6.68	6.89	9.4
	HY/2012/08	2017-04-29	Mid-Ebb	Cloudy	Small wave	SR8	Surface	1	1	1		23.2			6.81	6.1	8.1
	HY/2012/08	2017-04-29	Mid-Ebb	Cloudy		SR8	Surface	1	1	2		23.1	7.89	29.2	6.88	6.14	7.8
	HY/2012/08	2017-04-29	Mid-Ebb	Cloudy	Small wave	SR8	Middle		2	1	15:03						
TMCLKL	HY/2012/08	2017-04-29	Mid-Ebb	Cloudy	Small wave	SR8	Middle		2	2	15:03						
TMCLKL	HY/2012/08	2017-04-29	Mid-Ebb	Cloudy	Small wave	SR8	Bottom	3.8	3	1	15:03	23	7.73		6.94	6.57	8.3
TMCLKL	HY/2012/08	2017-04-29	Mid-Ebb	Cloudy	Small wave	SR8	Bottom	3.8	3	2	15:03	23	7.77		6.99	6.56	8.3
TMCLKL	HY/2012/08	2017-04-29	Mid-Ebb	Cloudy	Small wave	SR9	Surface	1	1	1	14:48	23.2	7.71	28.9	6.7	6.11	7.8
TMCLKL	HY/2012/08	2017-04-29	Mid-Ebb	Cloudy	Small wave	SR9	Surface	1	1	2	14:48	23.2	7.79	29	6.77	6.17	8
TMCLKL	HY/2012/08	2017-04-29	Mid-Ebb	Cloudy	Small wave	SR9	Middle		2	1	14:48						
TMCLKL	HY/2012/08	2017-04-29	Mid-Ebb	Cloudy	Small wave	SR9	Middle		2	2	14:48						
TMCLKL	HY/2012/08	2017-04-29	Mid-Ebb	Cloudy	Small wave	SR9	Bottom	3.1	3	1	14:48	23.1	7.84	29.1	6.81	6.35	8.2
	HY/2012/08	2017-04-29	Mid-Ebb	Cloudy	Small wave	SR9		3.1	3	2	14:48	23			6.86	6.39	8.1
			Mid-Ebb	Cloudy			Surface	1	1	1	15:18		7.75		6.65	6.38	8.5
TMCLKL	HY/2012/08	2017-04-29		Cloudy			Sunace		1		13.10	20.2	1.15	20.9	0.00	0.30	0.0

Project	Works	Date	Tide	Ivveather	Sea Condition	Stat		Water Depth	Lev_Cod	Replicate	Time	Temp(°C)	рН	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)
TMCLKL	HY/2012/08	2017-04-29	Mid-Ebb	Cloudy	Small wave	SR10A	Middle	6.6	2	1	15:18	23.1	7.85	28.9	6.82	6.75	8.7
TMCLKL	HY/2012/08	2017-04-29	Mid-Ebb	Cloudy	Small wave	SR10A	Middle	6.6	2	2	15:18	23.1	7.88	29	6.89	6.73	8.6
TMCLKL	HY/2012/08	2017-04-29	Mid-Ebb	Cloudy	Small wave	SR10A	Bottom	12.1	3	1	15:18	23	7.93	29	6.77	6.31	8.1
TMCLKL	HY/2012/08	2017-04-29	Mid-Ebb	Cloudy	Small wave	SR10A	Bottom	12.1	3	2	15:18	22.9	7.95	29.1	6.71	6.33	8.2

Appendix J

Impact Dolphin Monitoring Survey

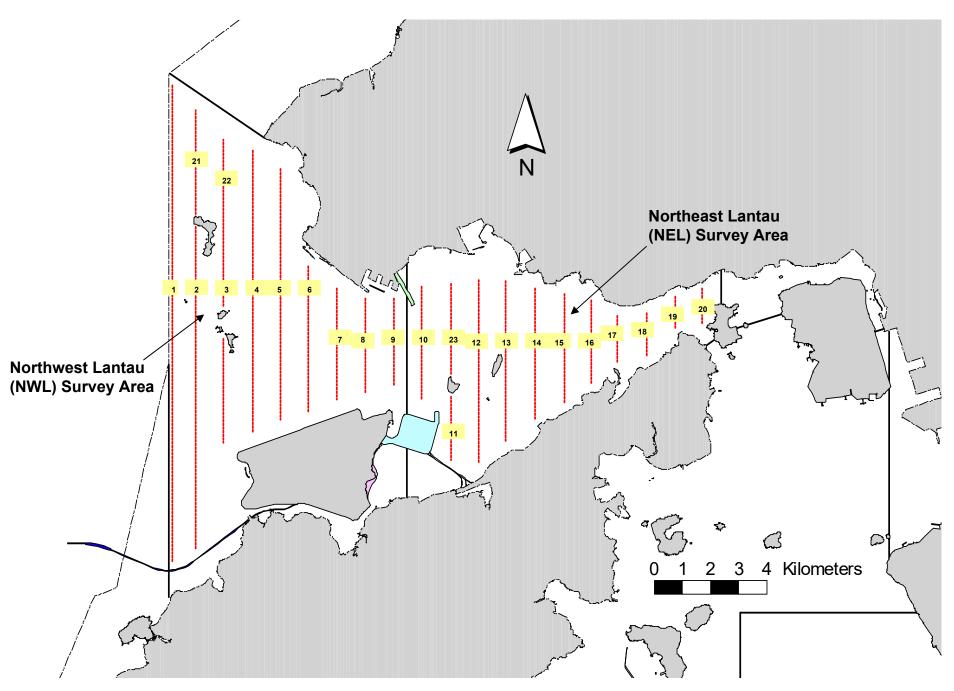


Figure 1. Transect Line Layout in Northwest and Northeast Lantau Survey Areas

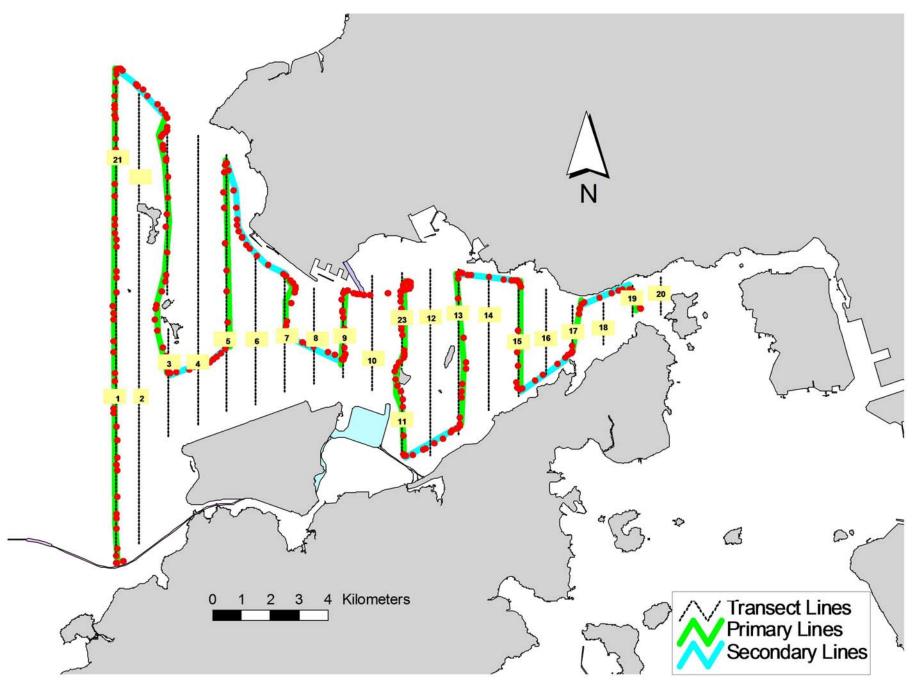


Figure 2. Survey Route on April 12th, 2017 (from HKLR03 project)

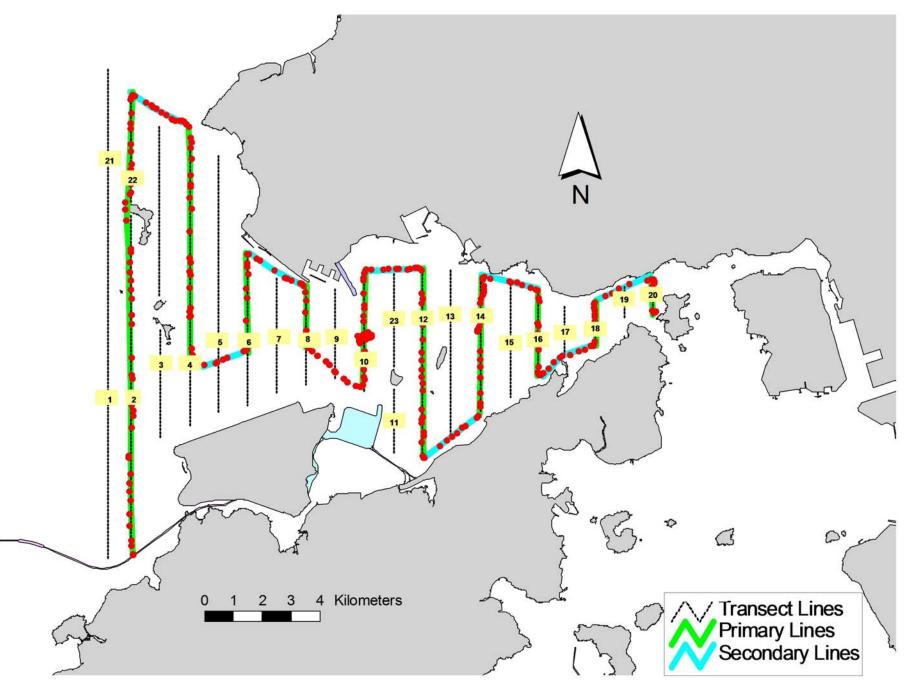


Figure 3. Survey Route on April 20th, 2017 (from HKLR03 project)

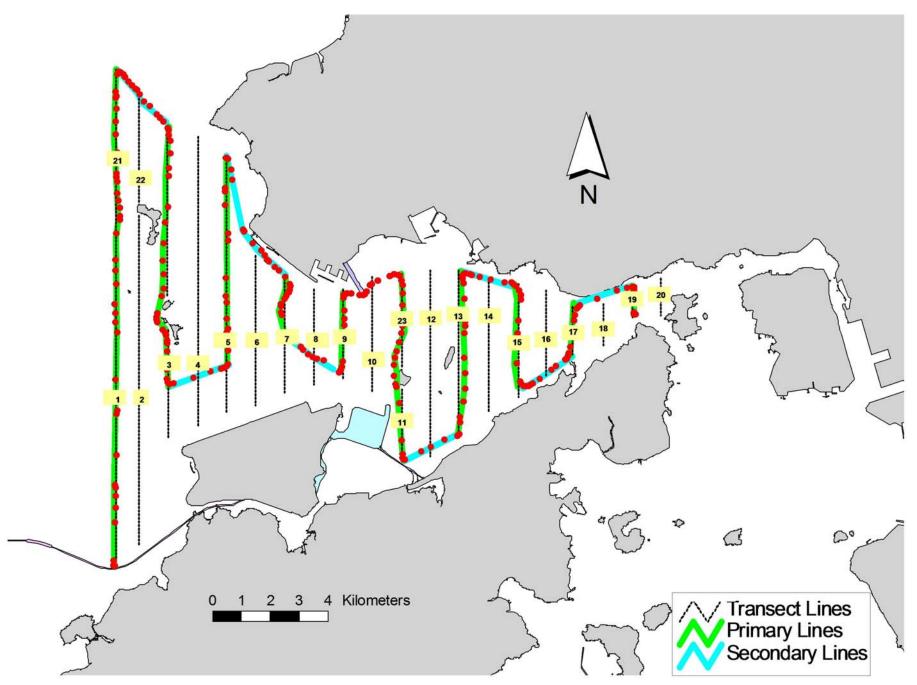


Figure 4. Survey Route on April 24th, 2017 (from HKLR03 project)

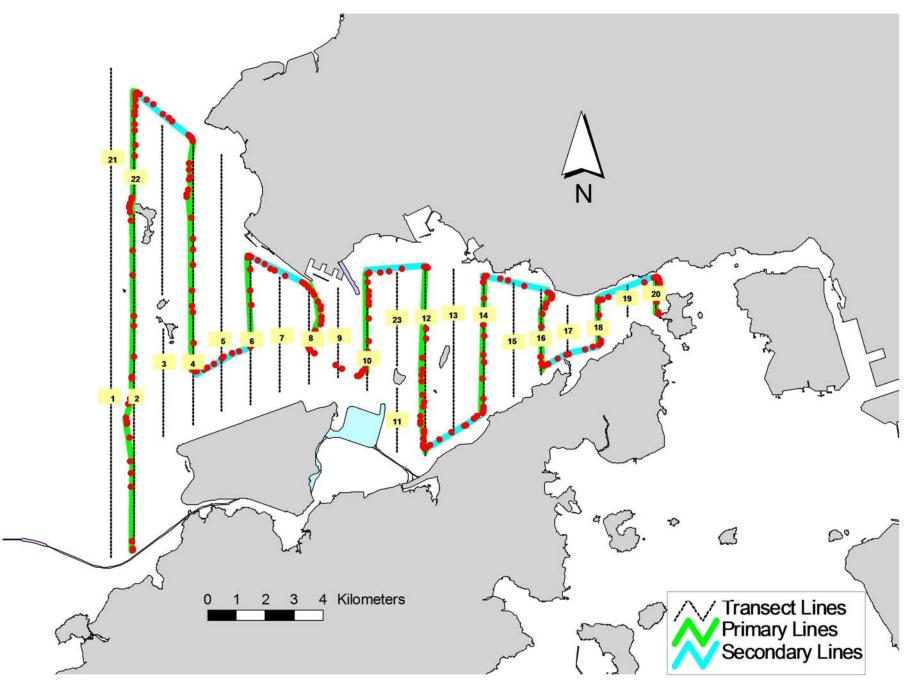


Figure 5. Survey Route on April 26th, 2017 (from HKLR03 project)

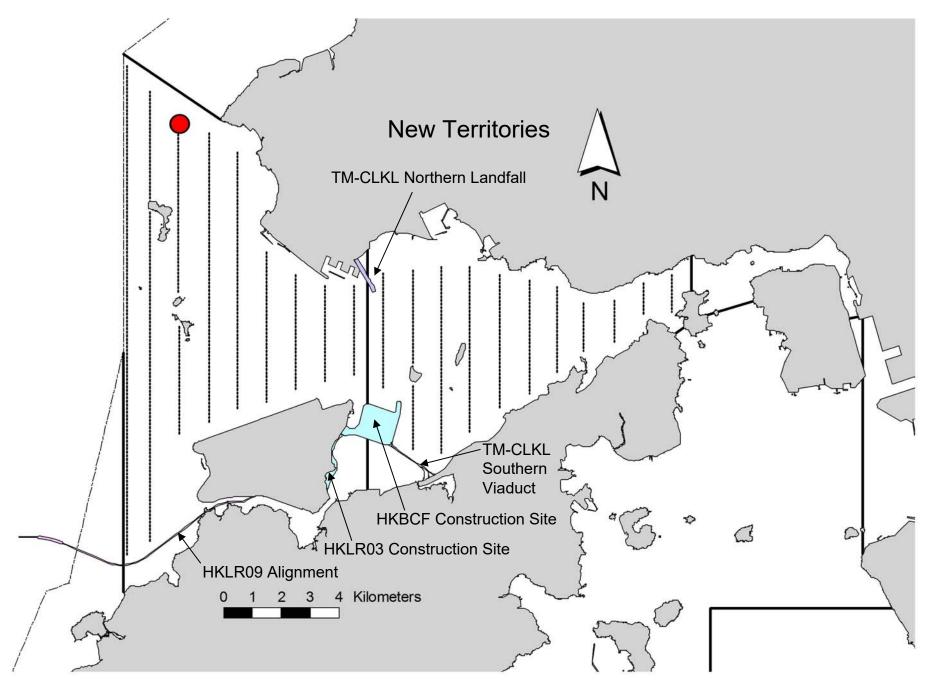


Figure 6. Distribution of Chinese White Dolphin Sightings during April 2017 HKLR03 Monitoring Surveys

Appendix I. HKLR03 Survey Effort Database (April 2017)

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

DATE	AREA	BEAU	EFFORT	SEASON	VESSEL	TYPE	P/S
12-Apr-17	NW LANTAU	2	17.47	SPRING	STANDARD36826	HKLR	Р
12-Apr-17	NW LANTAU	3	14.07	SPRING	STANDARD36826	HKLR	Р
12-Apr-17	NW LANTAU	2	11.46	SPRING	STANDARD36826	HKLR	S
12-Apr-17	NW LANTAU	3	2.50	SPRING	STANDARD36826	HKLR	S
12-Apr-17	NE LANTAU	2	12.53	SPRING	STANDARD36826	HKLR	Р
12-Apr-17	NE LANTAU	3	2.88	SPRING	STANDARD36826	HKLR	Р
12-Apr-17	NE LANTAU	1	1.80	SPRING	STANDARD36826	HKLR	S
12-Apr-17	NE LANTAU	2	3.34	SPRING	STANDARD36826	HKLR	S
12-Apr-17	NE LANTAU	3	4.45	SPRING	STANDARD36826	HKLR	S
20-Apr-17	NW LANTAU	2	7.19	SPRING	STANDARD33706	HKLR	Р
20-Apr-17	NW LANTAU	3	19.91	SPRING	STANDARD33706	HKLR	Р
20-Apr-17	NW LANTAU	2	2.00	SPRING	STANDARD33706	HKLR	S
20-Apr-17	NW LANTAU	3	5.60	SPRING	STANDARD33706	HKLR	S
20-Apr-17	NE LANTAU	2	19.55	SPRING	STANDARD33706	HKLR	Р
20-Apr-17	NE LANTAU	1	1.00	SPRING	STANDARD33706	HKLR	S
20-Apr-17	NE LANTAU	2	7.68	SPRING	STANDARD33706	HKLR	S
20-Apr-17	NE LANTAU	3	2.00	SPRING	STANDARD33706	HKLR	S
24-Apr-17	NW LANTAU	1	3.80	SPRING	STANDARD36826	HKLR	Р
24-Apr-17	NW LANTAU	2	22.86	SPRING	STANDARD36826	HKLR	Р
24-Apr-17	NW LANTAU	3	7.94	SPRING	STANDARD36826	HKLR	Р
24-Apr-17	NW LANTAU	2	13.00	SPRING	STANDARD36826	HKLR	S
24-Apr-17	NE LANTAU	2	12.28	SPRING	STANDARD36826	HKLR	Р
24-Apr-17	NE LANTAU	3	3.22	SPRING	STANDARD36826	HKLR	Р
24-Apr-17	NE LANTAU	2	9.70	SPRING	STANDARD36826	HKLR	S
26-Apr-17	NW LANTAU	2	20.36	SPRING	STANDARD36826	HKLR	Р
26-Apr-17	NW LANTAU	3	9.44	SPRING	STANDARD36826	HKLR	Р
26-Apr-17	NW LANTAU	2	9.50	SPRING	STANDARD36826	HKLR	S
26-Apr-17	NW LANTAU	3	1.20	SPRING	STANDARD36826	HKLR	S
26-Apr-17	NE LANTAU	2	15.56	SPRING	STANDARD36826	HKLR	Р
26-Apr-17	NE LANTAU	2	9.04	SPRING	STANDARD36826	HKLR	S

Appendix II. HKLR03 Chinese White Dolphin Sighting Database (April 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
12-Apr-1	7 1	1123	2	NW LANTAU	2	20	ON	HKLR	829496	806462	SPRING	NONE	Р

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

ID#	DATE	STG#	AREA
NL210	12/04/17	1	NW LANTAU



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

Appendix K

Event and Action Plan

Event and Action Plan for Impact Air Monitoring

			Action				
	ET (a)		IEC ^(a)		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 remedia
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.	 1. 2. 3. 4. 5. 	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
	 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; 	2. Discuss with ET and Contractor on possible remedial actions;	 writing; 2. Discuss with IEC, ET and Contractor on the proposed mitigation measures; 3. Request Contractor to review the working methods. 	 non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment and consider changes of working methods; Submit proposal of mitigation measures to SOR within 3 working days of notification and discuss with ET, IEC and SOR.
Limit level being exceeded by two or more consecutive sampling days	 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 Limit level for two consecutive days; 	 submitted by ET and Contractor's working method; 2. Discuss with ET and Contractor on possible remedial actions; g 3. Review the Contractor's mitigation measures whenever necessary to assure their effectiveness and advise the SOR accordingly; 4. Supervise the implementation of mitigation measures. 	 Discuss with IEC, ET and Contractor on the proposed mitigation measures; Request Contractor to critically review the working methods; Make agreement on the mitigation measures to be implemented; Ensure mitigation measures are properly implemented; Consider and instruct, if necessary, the Contractor to slow down or to stop all or part of the construction activities until no exceedance of Limit level. 	 Take immediate action to avoid further exceedance; Submit proposal of mitigation measures to SOR within 3 working days of notification and discuss with ET, IEC and SOR; Implement the agreed mitigation measures; Resubmit proposals of mitigation measures if problem still not under control; As directed by the Supervising Officer, to slow down or to stop all or part of the construction activities until no exceedance of Limit level.

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

EVENT		ACTION		
	ET	IEC	SOR	Contractor
	 Identify source(s) of impact; Inform the IEC, SOR and Contractor of findings; Check monitoring data; Repeat review to ensure all the dolphin protective measures are fully and properly implemented and advise on additional measures if necessary. 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. 	 Contractor the necessity of additional dolphin monitoring and any other potential mitigation measures. 4. Review proposals for additional monitoring and any other mitigation measures submitted by ET and Contractor and advise SOR of the results and findings accordingly. 5. Supervise / Audit the implementation of additional monitoring and/or any other mitigation measures and advise SOR the results and findings accordingly. 	 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. 3. Supervise the implementation of additional monitoring and/or any other mitigation measures. 	 potential mitigation measures. 3. Jointly submit with ET to IEC a proposal of additional dolphin monitoring and/or any other mitigation measures when necessary. 4. Implement the agreed additional dolphin monitoring and/or any other mitigation measures.

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	0	8

Table L2Cumulative Statistics on Complaints, Notifications of Summons and
Successful Prosecutions

Reporting Period			
	Complaints	Notifications of Summons	Successful Prosecutions
This Reporting Month (April 2017)	0	0	0
Total No. received since project commencement	14	0	0



ENVIRONMENTAL COMPLAINT/ENQUIRY INVESTIGATION REPORT

Our Reference: 0212330_Complaint LOG_20170328_13

Basic Information of Complaint/Enquiry

Reference Number:	Not disclosed
Date of Complaint/Enquiry Received	27 March 2017
Location of Complaint/Enquiry	Site near HKBCF of HZMB
Nature of Complaint/Enquiry	Noise nuisance and water pollution
Complaint/Enquiry Received by	EPD
Via	Not disclosed
Complainant/Enquirer	Not disclosed

Details of Complaint/Enquiry

On 27 March 2017, a complaint case was received by EPD regarding intermittent noise nuisance from the site near HKBCF of HZMB from 10:00pm on 26 March 2017 to the mid-night on 27 March 2017 and water pollution at the sea observed in the morning on 27 March 2017. The SOR, the Environmental Team (ET) and the Contractor(DBJV) received the complaint notification from IEC on 28 March 2017. The ET was informed that the case is categorized as complaint in nature upon the investigation, discussion and agreement between relevant parties (i.e. the Contractor (DBJV), SOR and IEC).

Investigation Report

Upon receiving the case notification from IEC on 28 March 2017, the Contractor had promptly checked the construction programme of March 2017.

According to the construction programme provided by the Contractor, the major construction works during the incident period were cutter soil mixing(CSM) ground treatment. Interview with the night time staff has been conducted. Cutter soil mixing rig and grout pump were being used. The construction works and the use of the above powered mechanical equipment were complied with the condition of current construction noise permit GW-RS0165-17. The construction programme is provided in Annex B. As the incident area is about 2.5km from the site, it is expected that there would not be any significant noise impact caused by this Contract.

Moreover, the water pollution at the sea shown in the photo provided by IEC (*Provided in Annex A*) is not likely to be related to this Contract since the site shown in the photo is not the site of this Contract. The incident area is also far away from the site of this Contract. Moreover, no marine works were undertaken at Southern Landfall during the incident period. Site investigation was conducted with SOR and DBJV on 19 April 2017. No improper discharge was observed. Wetsep records are provided in Annex F. A location map showing the distance between this site and the incident area is shown in Annex C. The site drainage plan showing the discharge location is shown in Annex D. Moreover, no contract-related marine traffic in the concerned waters was recorded according to the marine travel route record. The marine travel route record is provided in Annex E.

Based on the above, there is no evidence to prove that the complaint case is related to this Contract.

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

There is no evidence to prove that the complaint case is related to this Contract.

Nevertheless, The Contractor has been reminded to adhere strictly to implement all relevant mitigation measures of noise 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 noise pollution. No other additional action is required. The Contractor shall also fully comply with the conditions in the approved CNP to carry out construction works under the Contract.

The Contractor has also 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, Updated EM&A Manual and the Water Discharge License 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.

Date of File Closed : 11 May 2017

Approved and Filed by:

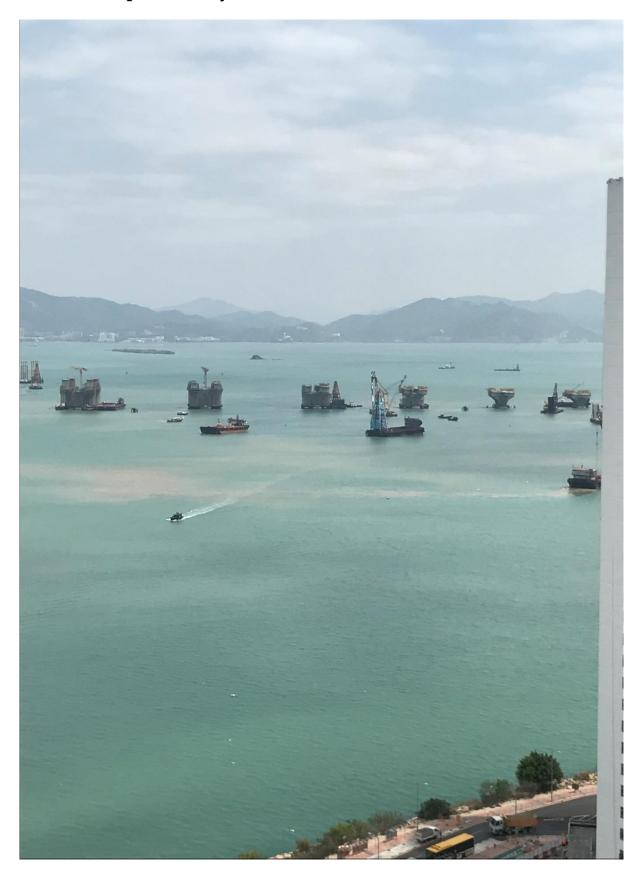
(Jovy Tam, ET Leader) Date: 11 May 2017

Annex A

Photo record



Annex A Photo provided by IEC



Annex 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								
Commencement and Completion Dates								
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		
Site Possession Date				1				
Portions: X1,(N10,11,13 & 14) - Sth Landfall				1	 	1 1 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								
Sediment Quality Report/Dumping Permit				1				
Southern Landfall								
Southern landfall - Commencement of Shaft & C&C Tunnel Dwall	-							
Southern Landfall - Commencement of Retrieval Shaft Excavation				-i				
Sediment Sampling & Testing Plan (SSTP) - if required				1				
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 Submit AIP 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					♦	MS 2.6 Approve AIP	for seawall modifica	tion works at Sou
MS 2.44 Approve DDA for South Ventilation Building by the Supervising Officer								
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				
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								
MS 2.72 Accept Operation and Maintenance Manual for all works except Tunnels and Cross Passgaes by the	es by the Supervising (Offic						
Tunnel Boring Machine (TBM) and Back-up Equipment for TBM Tunnel					¦			
MS 3.1.6 Removal of TBM for Southbound Tunnel from Site after the completion of TBM Tunnel			MS 3 1 6 Berry	kal of TBM for Southb	und Tunnel from Sit	e 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		und Tunnel from Site		of TPM Tuppol
MS 3.1.25 Demolition of Slurry Treatment Plant on completion				1				
				MS 3.1.25 Demolit	ion of Siurry Treatme	nt Plant on completio	n	
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	 MS 3.3.6 Complete 	-	of retrieval shaft to	facilitate retrieval of T	βM			
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				
MS 3.3.45 Completion of excavation, support and permanent lining for 60% of the total length (measured on I	- U	. .	. ,					
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		-						
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					4		
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					i i 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	ent 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		
MS 3.3.57 Completion of excavation, support and permanent lining for 90% of the total length (measured on	 MS 3.3.57 Comple 	tion of excavation, sup	port and perman	eht lining for 90% of th	e total length (measu	red on plan) of the N		
MS 3.3.58 Completion of excavation, support and permanent lining for 92.5% of the total length (measured or	 MS 3.3.58 Comple 	tion of excavation, su	pport and permar	ent lining for 92.5% of	the total length (mea	sured on plan) of the		
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	N
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	f the total length (mea	sured on plan) of the	
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	-		. /	
MS 3.3.105 Completion of excavation, support and permanent lining for 72.5% of the total length (measured i		Ũ	Ű,	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				
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 the total length) (measured of the total length) (measured of the total length) (measured of the total length) (measured of the total length) (measured of the total length) (measured of the total length) (measured of the total length) (measured of the total length) (measured of the total length) (measured of the total length) (measured of the total length) (measured of total length) (measur		Ū.		easured on plan) of th	i			
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								
wis 5.5. To completion of excavation, support and permanent liming for 80% of the total length (measured or	mpletion of excavation, s	support and permane	in ining for 80% (i vire lotal length (mea:	sured on plan) of the			

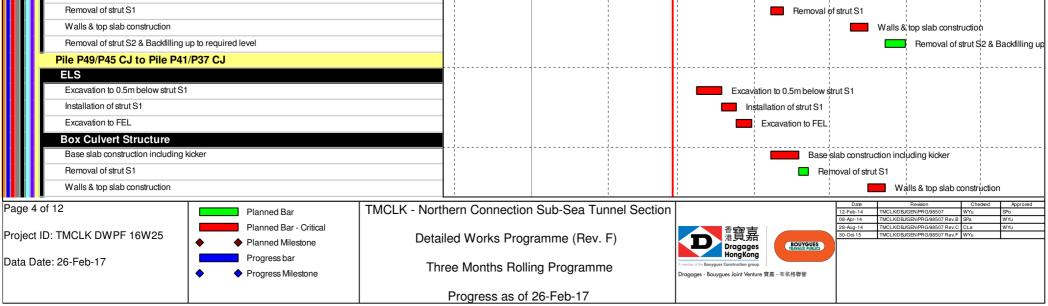
MS 3.3.109 Completion of excavation, support and permanent lining for 82.5% of the total length (measured of mpletion of excavation, support and permanent lining for 82.5% of the total length (measured on plan) of th MS 3.3.110Completion of excavation, support and permanent lining for 85% of the total length (measured on pletion of excavation, support and permanent lining for 85% of the total length (measured on plan) of the \$ MS 3.3.111 Completion of excavation, support and permanent lining for 87.5% of the total length (measured of pletion of excavation, support and permanent lining for 87.5% of the total length (measured on plan) of th MS 3.3.112 Completion of excavation, support and permanent lining for 90% of the total length (measured on MIS 3.3.112 Completion of excavation, support and permanent lining for 90% of the total length (measured on plan) of the MS 3.3.113 Completion of excavation, support and permanent lining for 92.5% of the total length (measured c MS 3.3.113 Completion of excavation, support and permanent lining for 92.5% of the total length (measured on plan) of th MS 3.3.114 Completion of excavation, support and permanent lining for 95% of the total length (measured on MS 3.3.114 Completion of excavation, support and permanent lining for 95% of the total length (measured on plan) of the MS 3.3.115 Completion of excavation, support and permanent lining for 97.5% of the total length (measured c MS 3.3.115 Completion of excavation, support and permanent lining for 97.5% of the total length (measured on plan) of th MS 3.3.116 Completion of excavation, support and permanent lining for 100% of the total length (measured o MS 3.3.116 Completion of excavation, support and permanent lining for 100% of the total length (measured on plan) of the MS 3.3.118 Complete tunnel internal structures for 50% of total length (measured on plan) of the Northbound MIS 3.3.118 Complete tunnel internal structures for 50% of total length (measured on plan) of the Northbound TBM Tu MS 3.3.121 Complete tunnel internal structures for 25% of total length (measured on plan) of the Southbound mplete tunnel internal structures for 25% of total length (measured on plan) of the Southbound TBM Tunnel MS 3.3.122 Complete tunnel internal structures for 50% of total length (measured on plan) of the Southbound MS 3.3.122 Complete tunnel internal structures for 50% of total length (measured on plan) of the Southbound TBM Tu

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 Data Date: 26-Feb-17	 Planned Bar - Critical Planned Milestone Progress bar Progress Milestone 	Detailed Works Programme (Rev. F) Three Months Rolling Programme	香寶嘉 Prograges HongKong A rentre if he Beargest Construction group Dragoges - Bourgues Joint Venture 寶嘉 - 布依格攀登	08-Apr-14 28-Aug-14 30-Oct-15	TMCLK0BJGEN/PRG98507 Rev.B TMCLK0BJGEN/PRG98507 Rev.C TMCLK0BJGEN/PRG98507 Rev.F	CLa	WYu WYu
		Progress as of 26-Feb-17					

Activity Name								
	2016				2017			
	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul
Cross Passages for TBM Tunnel						1		
MS 3.3.1 Complete 50% of ground treatment for excavation of all Type 1 Cross Passages(Percentage to be	C 🔶 MS 3.3.1 Complete	e 50% of ground trea	thent for excavatio	n of all Type 1 Cross F	assages(Percentage	e to be certified for 50	%	
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
MS 3.3.7 Complete 50% of excavation and support for all Type 2 Cross Passages(Percentage to be certified	IT 🖌	MS 3.3.7 Complet	e 50% of excavation	n and support for all	ype 2 Cross Passage	es(Percentage to be o	ertified for 50% com	plet
MS 3.3.9 Complete 50% of permanent lining and internal structures for all Type 1 Cross Passages(Percenta	g		1	ete 50% of permane				1
MS 3.3.11 Complete 50% of permanent lining and internal structures for all Type 2 Cross Passages(Percen						t lining and internal st		
Cut-and-cover Tunnels at Southern Landfalls								
MS 4.1.1 Complete 10% of total length (measured on plan) of temporary retaining walls for excavation of Co	t.						{	
							, i	
MS 4.1.2 Complete 20% of total length (measured on plan) of temporary retaining walls for excavation of Cu							1 i	
MS 4.1.3 Complete 30% of total length (measured on plan) of temporary retaining walls for excavation of Cu			1				1 1 1	
MS 4.1.4 Complete 40% of total length (measured on plan) of temporary retaining walls for excavation of Co								
MS 4.1.5 Complete 50% of total length (measured on plan) of temporary retaining walls for excavation of Co	t-]				, , ,	
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MS 4.1.27 Complete excavation for 100% of total length (measured on plan) of all Cross Passages								
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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) 	
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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								
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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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Ander 2 Ser 2	Progress bar	-	. ,	HongKo	ng			
	ala Dale. 201 eb 17	ree Months Rolling Pro	ogramme					
FIUGIESS as 01 20-FED-17		Progress as of 06 E-	h-17					
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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	
					1		1 1 1	-
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	-
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			/	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	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.comming.comming.comming.com	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			
	 Progress Milestone 					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
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			
							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)	1				
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				1!	<u> </u>			!
North Landfall - Underground Sewerage & Drainage - Portion N5		_						
Portion N7 - Removal of Barging Point & Surcharge Removal to +6mPD							vol of Baraira Bai	d C
				 		- 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

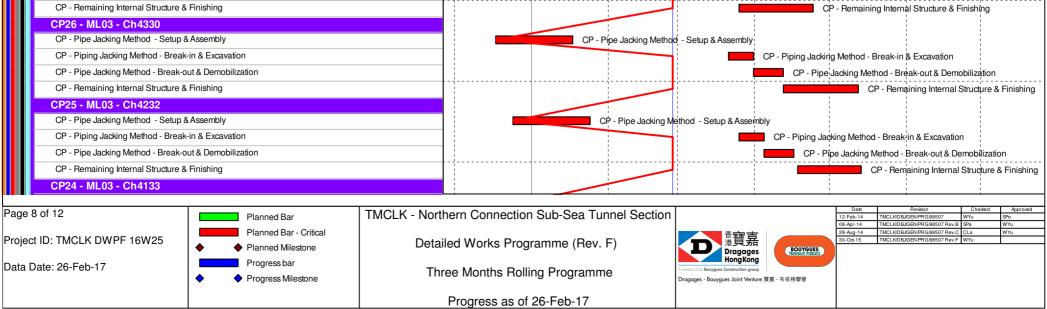
Project ID: TMCLK DWPF 16W25

Data Date: 26-Feb-17

IB ID12.2m - S881						
 Planned Bar Planned Bar - Critical Planned Milestone Progress bar Progress Milestone 	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					_

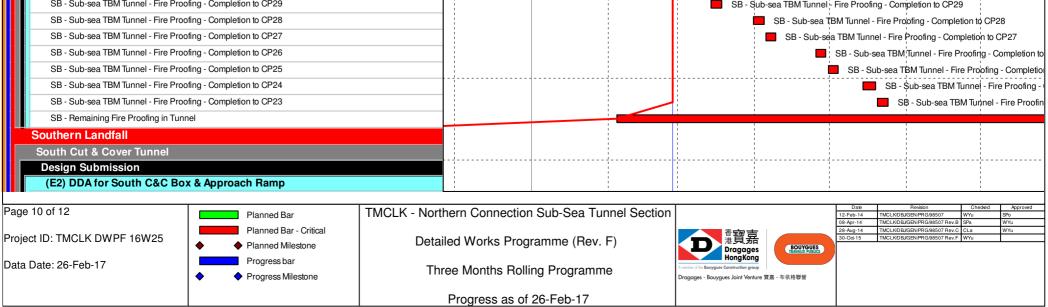
tivity Name										
			2016 Dec	Jan	Feb	Mar	2017 Apr	May	Jun	Jul
NB - Sub-sea TBM Tunnel - ALLUVI	JMS sandy with Trimix (Ch4600 to 4400 - 200m	ו)		ALLUVIUMS sandy with T				way		
	JMS sandy with Trimix (Ch4400 to 4300 - 100m			el - ALLUVIUMS sandy wi		· · · · · · · · · · · · · · · · · · ·	1 1 1			
	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)		
		9								
	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)	
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			-
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 .	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</u> چې =	H	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
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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
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NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP27	NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP27
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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
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	Progress as of 26-Feb-17

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NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP23	NB - \$ub-sea TBM Tunne - OHVD Slat
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP39	NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP39
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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
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NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP24	NB - Sub-sea TBM Tunnel - Fire Proofing
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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	
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP47	to CP47
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SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP37	SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP37
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SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP26	SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Comp
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP25	SB - Sub-sea TBM Tuhnel - Corbel & Cable Trough - Co
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP24	SB - Sub-sea TBM Tunnel - Corbel & Cable Tr
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP23	SB - Sub-sea TBM Tunnel - Çorbel & Cabl
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP38	SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP38
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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 CP23	SB - Sub-sea TBM Tunnél - OHVD Sla
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
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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
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Review & Comment by JV						.			
Designer prepare DDA								 	
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Formal Submission of DDA to ICE/ IPs							, , ,	, ,	, ,
Advanced Submission to SO								1	
IPs/SO'sAdvance Comments/ ICE Comments									1
Comments Received	_							1 1 1	1
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Designer to Reply RtC + Update Submission	_								
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ICE Approval & Issue Check Cert				,			1	,	,
IPs Review				1				1	
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SO's Review								1	1
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Method Statement of Construction Methodology of C&C Tunnels				1				1	1
Preparation Method Statement for C&C Tunnels							1		
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C&C Tunnel - 4th 85m - Tunnel Structure		CROTI	nel - 4th 85m - Tunne	Structure				i I I	1 1 1
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C&C Tunnel - 6th 85m - Tunnel Structure						el - 6th 85m - Tunnel	Structure	J	
C&C Tunnel - 6th 85m - B ackfilling							- 6th 85m - Backfillin	9	
C&C Tunnel - 7th 67m - Excavation by vertical mean			C&C Tunne	al - 7th 67m - Exca	avation by vertical mea	h		1	
C&C Tunnel - 7th 67m - Tunnel Structure						C&(3 Tunnel - 7th 67m - T	unnel Structure	
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Intermediate Slab									Inte
South Retrieval Shaft								1	
Design Submission								1	1
(F4) Gantry Crane Support/Foundations in Southern Landfall									
								1	
Designer to Reply RtC + Update Submission									
Submit Updated IFA to SO/ ICE/ IPs				1				1	1
ICE Approval & Issue Check Cert								1	
IPs Review									
IP's No Objection Received				1				1	1
SO's Review								1	
SO Approval with Condition Received	1							1	
Method Statement Submission									
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Method Statement of Construction Methodology of Retrieval Shaft							1 4	, , ,	,
Preparation Method Statement for Retrieval Shaft	_							1	
Submit Method Statement to SO								1	
SO Reviews & Comments								1	
Re-submission								1	
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SO's Review									
Construction								1	
South Retrieval Shaft - Diaphragm Wall								1	
Retrieval Shaft - Temp. Slab/Prepare for TBM Breakthrough	Retrieva	l Shaft - Ter	np. Slab/Prepare for	, TBM Breakthroua	h			 	1
South Approach Ramp								1	
Construction									
Appoach Ramp (CH1580-1850) - Pipe Pile/Sheet Piles Wall								1	1
Appoach Ramp (CH1580-1850) - Tension Piles								1	1
Appoach Ramp (CH1580-1800) - Excavation,						Appoach I	, Ramp (CH1580-1800) - Excavation,	
Remaining Approach Tunnel Structure									
								1	
South Ventilation Building				¦				: }	
Design Submission								1	
(I1) DDA for South Vent.Bldg. GBP & Arch.Submission									
IPs Review								1	
IP's No Objection Received								1	
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SO's Review								 	
SO Approval with Condition Received								1	
(I2) DDA for South Vent.Bldg. Foundation Design								1	1 1
Review & Comment by JV								1	
Designer prepare DDA								1	
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Progress as of 26-Feb-17					
D	Northern Connection Sub-Sea Tunnel Section Detailed Works Programme (Rev. F) Three Months Rolling Programme Progress as of 26-Feb-17	Three Months Rolling Programme Dragoges - Bouygues Joint Venture 實惠 - 布依格聯番	Northern Connection Sub-Sea Tunnel Section Detailed Works Programme (Rev. F) Three Months Rolling Programme	Northern Connection Sub-Sea Tunnel Section Detailed Works Programme (Rev. F) Three Months Rolling Programme	Northern Connection Sub-Sea Tunnel Section Detailed Works Programme (Rev. F) Three Months Rolling Programme

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Designer to Reply RtC + Update Submission									
Submit Updated DDA to SO/ ICE/ IPs ICE Approval & Issue Check Cert									
IPs Review									
SO's Review									
(J1) DDA Temp.works for Construction of Sth.Vent.Bldg.								 ' '	; , ,
Designer to Reply RtC + Update Submission									
Submit Updated DDA to SO/ ICE/ IPs ICE Approval & Issue Check Cert									
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S -Sheet Piling									1 1 1
Substructure			Substructure						- - -
Superstructure					Su	perstructure			
Finishing Works									
South Surface Roadworks, Utility & Drainage works								 	
Design Submission (E1) AIP - Southern Landfall Seawall Modification									1 1 1
Designer Prepare AIP - Southern Landfall Seawall Modification		Desig	ner Prepare AIP - So	uthern Landfall S	awall Modification				
Review & Comment by JV			Review & Com						
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Formal Submission of AIP to ICE/IPs				omission of AIP to	1				
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Review & Comment by SO/ ICE/ IPs Advance Commants from SO/ Comments from ICE/ IPs Received					Comment by SO/ IC	1	Pe Received		
Designer to Prepare RtC & Updated AIP						Comments from ICE/			
Submisson of AIP to SO/ ICE together with Reply To Comment (RTC)					-	IP to SO/ ICE together	1	ent (RTC)	
Reply to IPs Comments in RTC					Reply to IPs Cor				
ICE Approval & Issue of Design Check Cert.					1	Approval & Issue o	Design Check Cert.		
Check Cert to SO						heck Cert to SO			
No Objection or Further Minor Comments from IPs Received					♦ N	o Objection or Furthe	i .	m IPs Received	
SO Review (35 Days) SO Approval with Condition Received						SO Review (35 Days) ¦ with Condition Receiv	and a second sec	
(E1) DDA - Southern Landfall Seawall Modification						V SU Approval	with Condition Receiv	veu	
Preparation of DDA Modification of Seawall at Sth Landfall							Preparation of D	DA Modification of Se	; awall at St
Review & Comment by JV								eview & Comment by	(
Designer prepare DDA								Designer pre	pare DDA
IPs Review									
IP's No Objection Received									
SO's Review SO Approval with Conditio n Received									
(E3) DDA for Sewerage, Drainage, Waterworks & Utility works for So	uth Landf								
IPs Review									
IP's No Objection Received									
SO's Review									
SO Approval with Condition Received									
Method Statement Submission Method Statement of Ground Treatment for TBMs Passing under So	uthern La								
Preparation Method Statement for Ground Improvement in South Landfall									
Submit Method Statement to SO									
SO Reviews & Comments									
Re-submission									
SO's Review SO's Approval									
Construction									
Temporary Platform for Ground Treatment for TBM passing under Southern Seawall								¦	
Grouting Treatment for TBM passing under Southern Seawall	G	irouting Treatment for	r TBM passing under	Southern Seawa	<mark>B</mark>				
Testing & Commissioning/Inspection & Handover									
Final Inspection & Handover									
Design Submission								; _	
(A12) Maintenance Matrix Prepare Re-submission									
2nd Submission									
SO's Condition Approval									1 1 1
(A13) Operation & Maintenance Manual					 		 	 	
Preparation of Operation and Maintenance Manual					 	1		 	1
1st Submission									
SO's Comments for 1 st Submission 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								1 1 1	1 1 1
(A15) Health & Safety File incl.As-built Dwgs & Records, Maintenance									1 1 1
Preparation of Health and Safety File including as-built drawings and records, maintenance	schedules, or								
1st Submission SO's Comments for 1st Submission									
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			0.1.5		1		Date	Revision Che	ecked App
	CLK - Norther	rn Connection	Sub-Sea Tur	nel Section			12-Feb-14 TMCLK/DB 08-Apr-14 TMCLK/DB	JGEN/PRG/98507 WYu JGEN/PRG/98507 Rev.B SPa	SPo WYu
t ID: TMCLK DWPF 16W25	Detailed	d Works Progr	ramme (Rev. I	=)				JGEN/PRG/98507 Rev.C CLa JGEN/PRG/98507 Rev.F WYu	WYu
Date: 26-Feb-17 Progress bar		-			Dragag	BOUYGUES TRAVAUX PUBLICS			
Jate: 26-Feb-17 ♦ Progress Milestone	Three	Months Rollin	ng Programm	9	A member of the Bouygues Construction g Dragages - Bouygues Joint Ve				
	D .	rogress as of	26-Eab 17						
	Pr								

Progress as of 26-Feb-17





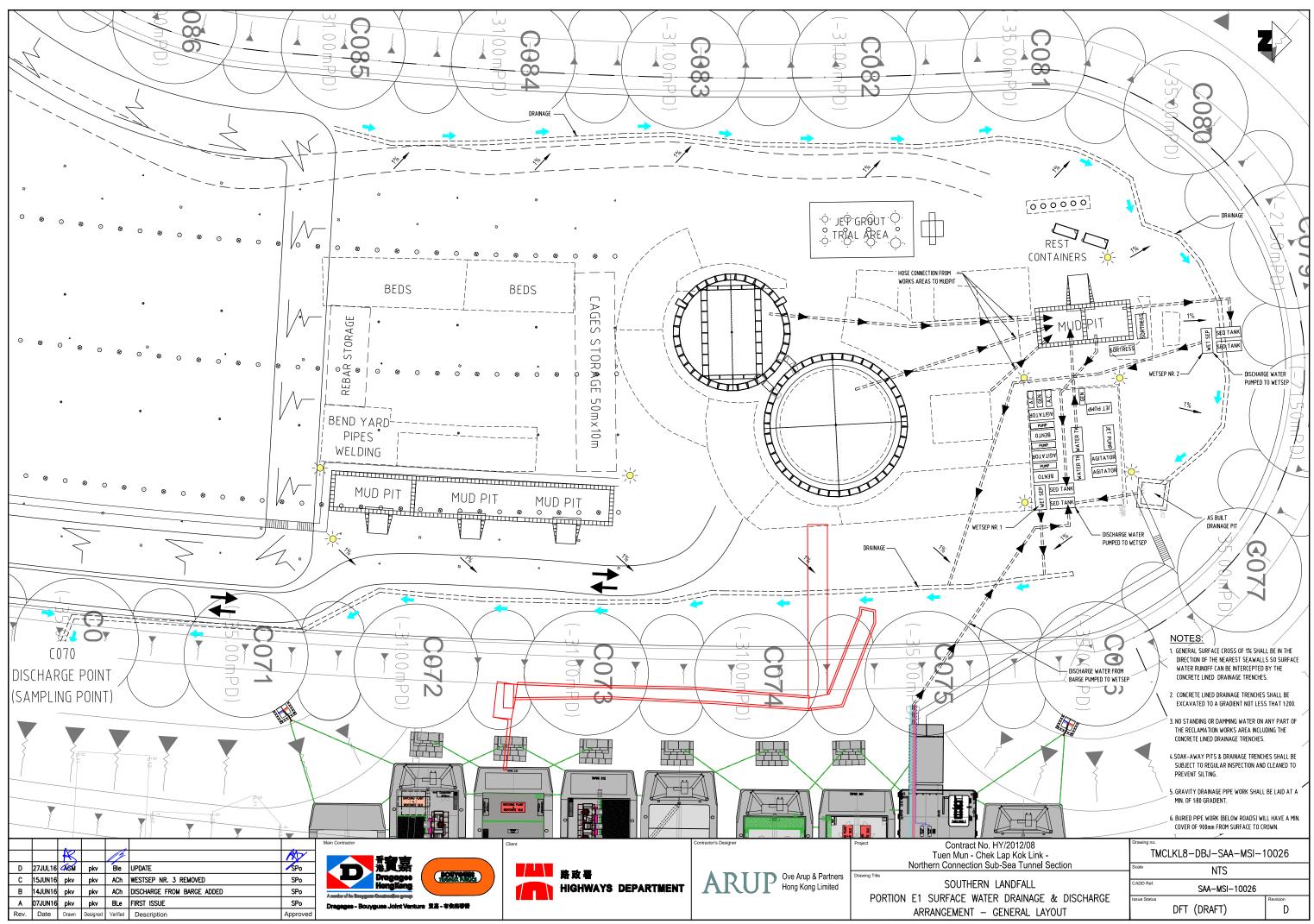
Annex C

Location Map



Annex D

Site Drainage Plan



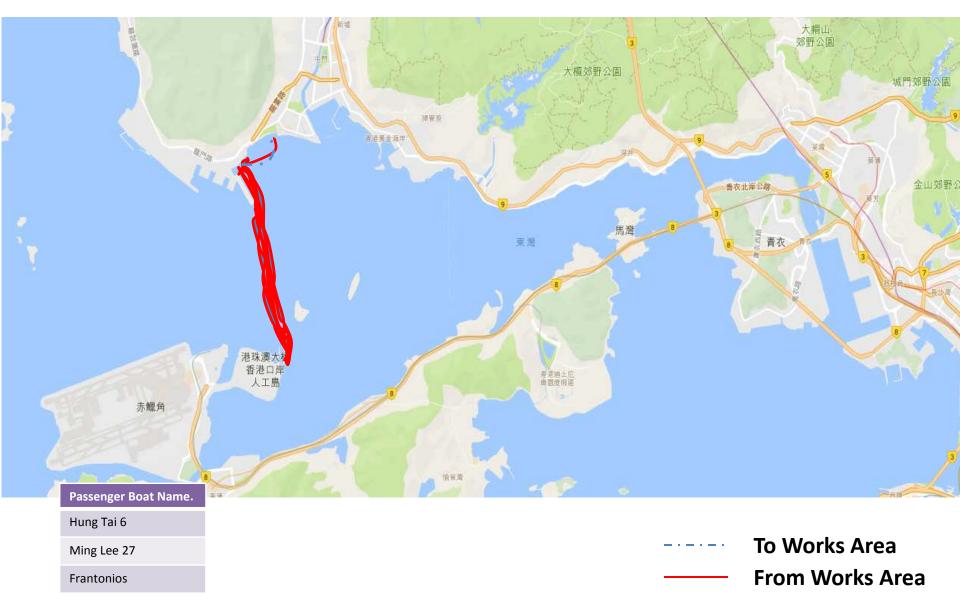
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Annex E

Marine Travel Route Record

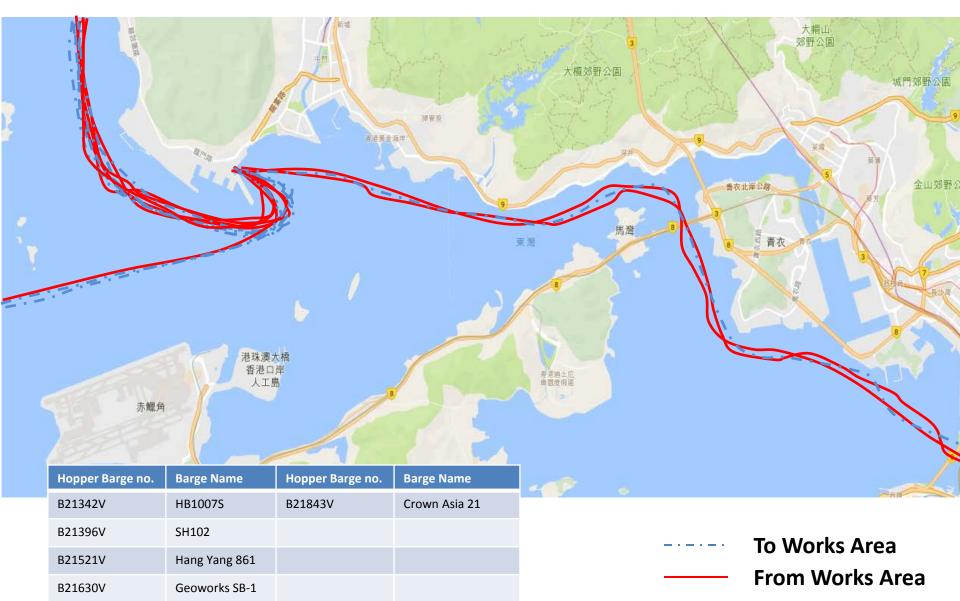
Contract No. HY/2012/08 Tuen Mun-Chek Lap Kok Link Northern Connection Sub-sea Tunnel Section

Records of Off-site Marine Vessel Routing – March 2017



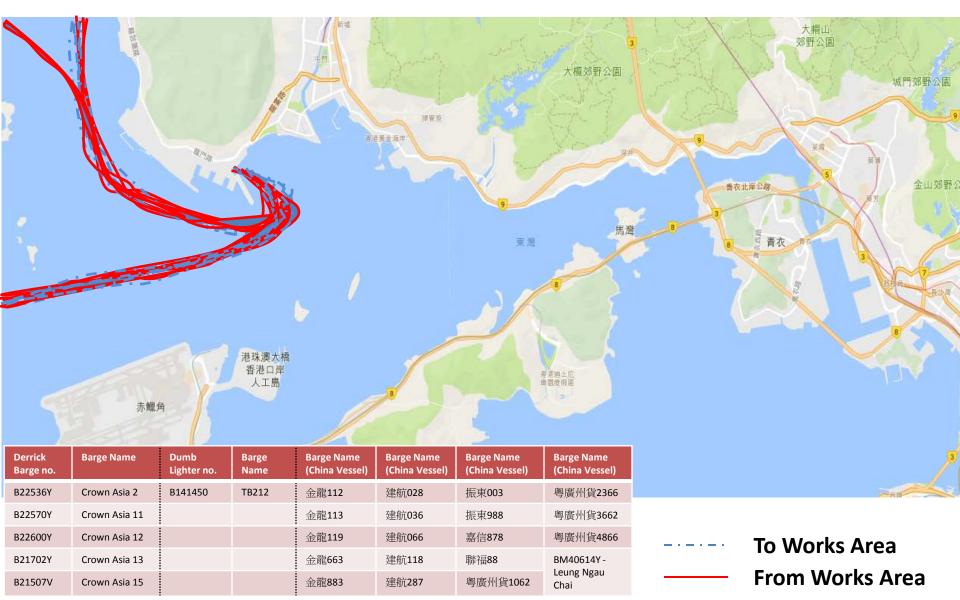
Contract No. HY/2012/08 Tuen Mun-Chek Lap Kok Link Northern Connection Sub-sea Tunnel Section

Records of Off-site Marine Vessel Routing – March 2017



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

Records of Off-site Marine Vessel Routing – March 2017



Annex F

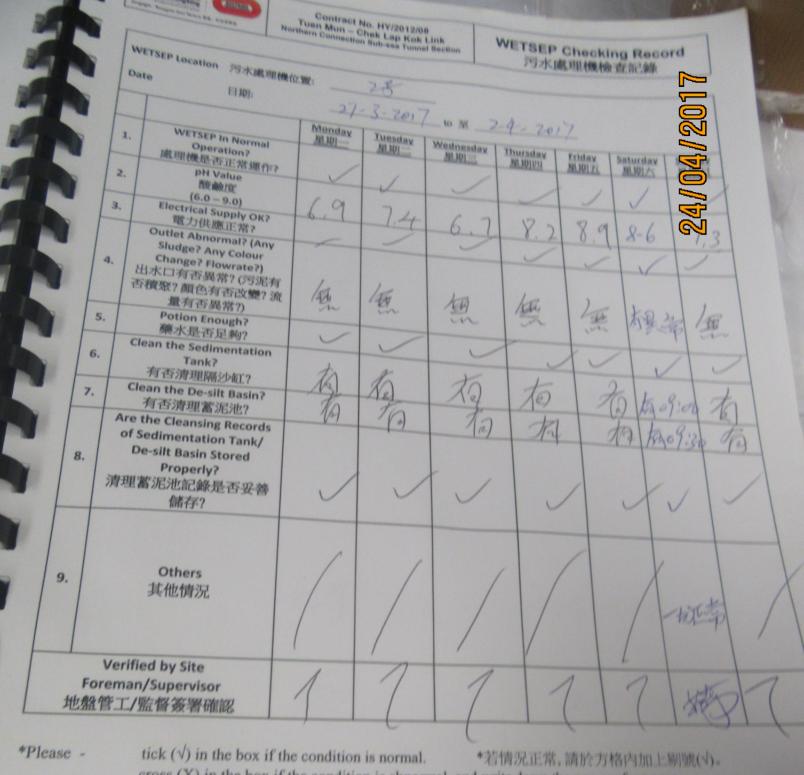
Wetsep Record

	Navyar Argen Ar Van KR Kanes	Tuen Mun Northern Connect	No. HY/2012/ Chek Lap Kol on Sub-sea Tunr	08 K Link Nel Section	WETSEP Checking Record 污水處理機檢查記錄			ord
h	WETSEP Location 污水處理 Date 日期:		25	7				
P	1. WETSEP in Normal Operation?	Monday	<u>Tuesday</u> 星期二	了 to 至 _ 2 Wednesday 星期三	6·3·20 Thursday 星期四	Friday 星期五	<u>Saturday</u> 星期六	<u>Sunday</u> 星期日
r	度理機是否正常運作 2. 酸鹼度			/	/	/		/
4	(6.0 – 9.0) 3. Electrical Supply OK2	8.6	8-6	8-7	8-6	7.8	7.6	7.9
	電力供應正常? Outlet Abnormal? (Any Sludge? Any Colour				/	/	/	/
	 Change? Flowrate?) 出水口有否異常? (污泥孔 否積聚? 顏色有否改變? 這 量有否異常?) 	町町大東学	有異常	太栗 命	古果华	魚	每	12
5	D			1	1		+	+
6.	Tank? 有否清理隔沙缸?	有 09:00	有の行の	ta olivo	1/A 0 9:00	1/2	R	1
7.	Clean the De-silt Basin? 有否清理蓄泥池?	1901:30	梅 0 9:50	雨の?:30	\$ 29:3	o da	1 E	11
8.	Are the Cleansing Records of Sedimentation Tank/ De-silt Basin Stored Properly? 清理蓄泥池記錄是否妥善 儲存?		~	/	1			
9.	Others 其他情況	-切跸-	物理常	切王常	物建	3/	///	
	Verified by Site reman/Supervisor 管工/監督簽署確認	浙东	酒	NEP	XA	2 -	1-	1

Remarks:

Please keep the record and send to environmental department in monthly basis. (1) 備註:

(1) 請將記錄妥善保存, 並每月將記錄交回環保部。



TICK (V) in the box if the condition is normal.
 *若情況正常,請於方格內加上剝號(V) 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:

(1) Please keep the record and send to environmental department in monthly basis.
備註:

(1) 請將記錄妥善保存,並每月將記錄交回環保部。

Appendix M

Waste Flow Table



Monthly Summary Waste Flow Table

Name of Department: <u>HyD</u>

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

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

[to be submitted not later than the 15th 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	7.508	0.000	0.000	0.000	7.508			
Apr-2017	15.603	0.000	0.000	0.000	15.603			
May-2017								
Jun-2017								
Half Year Sub-total								
Jul-2017								
Aug-2017								
Sep-2017								
Oct-2017								
Nov-2017								
Dec-2017								
Project Total Quantities	1198.724	0.000	0.000	0.000	1198.724			



			Actu	al Quantities of <u>N</u>	<u>Non-inert</u> Cons	truction Waste	Generated Mon	thly		
Month	Me	Metals Paper/ cardboard packaging		Paper/ cardboard packaging		Paper/ cardboard packaging Plastics (see Note 3)		Chemical Waste		Others, e.g. General Refuse disposed at Landfill
	(in '0	000kg)	(in '000kg)		(in '000kg)		(in '0	00kg)	(in '000ton)	
	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	0.000	0.000	0.000	0.000	0.000	0.000	6.100	6.100	0.286	
Apr-2017	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.237	
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	18.950	18.950	6.055	



	Forecast of Total Quantities of Construction and Demolition Materials to be Generated from the Contract*								
Total Quantity GeneratedHard Rock and Large Broken ConcreteReused in the ContractReused in other ProjectsDisposed of as H									
(in '000 ton)	(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 WasteGeneral Refuse disposed of at 1					
(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 m³. (**ER Part 8 Clause 8.8.5** (d) (ii) refers).