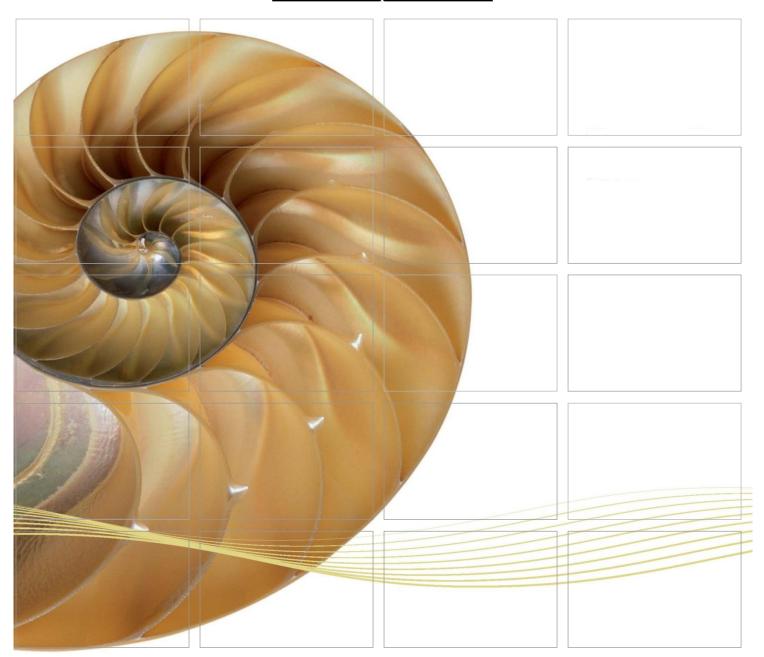
Report



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

Seventy-third Monthly Environmental Monitoring & Audit (EM&A) Report

11 December 2019

Environmental Resources Management 2507, 25/F One Harbourfront 18 Tak Fung Street Hunghom, Kowloon Hong Kong Telephone 2271 3000 Facsimile 2723 5660



www.erm.com



Ref.: HYDHZMBEEM00 0 7785L.19

12 December 2019

By Fax (2293 6300) and By Post

AECOM Asia Co. Ltd.
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
73rd Monthly EM&A Report for November 2019 (EP-354/2009/D)

Reference is made to the Monthly EM&A Report for November 2019 (ET's ref.: "0212330_73rd Monthly EM&A_20191211.doc") certified by the ET Leader and provided to us via e-mail on 11 December 2019.

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,

F. C. Tsang

Independent Environmental Checker

Tuen Mun - Chek Lap Kok Link

Mark Charle

c.c.

HyD	Mr. Patrick Ng	(By Fax: 3188 6614)
HyD	Mr. Cheng Pan	(By Fax: 3188 6614)
AECOM	Mr. Conrad Ng	(By Fax: 3922 9797)
ERM	Dr. Jasmine Ng	(By Fax: 2723 5660)
DBJV	Mr. Bryan Lee	(By Fax: 2293 7499)

Internal: DY, YH, ENPO Site

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

Seventy-third Monthly Environmental Monitoring & Audit (EM&A) Report

Document Code: 0212330_73rd Monthly EM&A_20191211.doc

Environmental Resources Management

2507, 25/F One Harbourfront 18 Tak Fung Street Hunghom, Kowloon Hong Kong Telephone: (852) 2271 3000 Facsimile: (852) 2723 5660

E-mail: post.hk@erm.com http://www.erm.com

Client:		Project N	o:		
DBJV		021233	0		
Summary		Date:			
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		Approved			
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		Mr Crai	g Reid		
		Partner			
		Certified I	by:		
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		Dr Jasn	nine Na		
		ET Leade	-		
	73 rd Monthly EM&A Report	VAR	JN	CAR	11/12/19
Revision	Description	Ву	Checked	Approved	Date
This report has been prepared by Environmental Resources Management the trading name of 'ERM Hong-Kong, Limited', with all reasonable skill, care and diligence within the terms of the Contract with the client, incorporating our General Terms and Conditions of Business and taking account of the resources devoted to it by agreement with the client. We disclaim any responsibility to the client and others in respect of any matters outside the scope of the above. Distribution Inter Conf		ernal	Certificate I	5 18001:2007 No. OHS 515956 BSJ ** 001:2008 2: No. FS 32515	



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APPENDIX D SUMMARY OF ACTION AND LIMIT LEVELS

APPENDIX E COPIES OF CALIBRATION CERTIFICATE FOR AIR

AND WATER QUALITY MONITORING

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APPENDIX G IMPACT AIR QUALITY MONITORING RESULTS

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APPENDIX J IMPACT WATER QUALITY MONITORING RESULTS

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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 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 Contract commenced on 1 November 2013 and will tentatively be completed in early 2020. 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 Seventy-third Monthly EM&A report presenting the EM&A works carried out during the period from 1 to 30 November 2019 for the *Contract No. HY/2012/08 Northern Connection Sub-sea Tunnel Section* (the "Contract") in accordance with the Updated EM&A Manual of the TM-CLK Link Contract. As informed by the Contractor, major activities in the reporting period included:

Land-based Works

- Construction of Thermal barrier TBM tunnel;
- Construction of Walkway Corbel & Cover TBM Tunnel;
- Road & Drainage works Portion N-A;
- Gantry Crane Removal Portion N-A;
- RC structure Portion S-A;
- Backfilling Portion S-A & S-C;
- Water Treatment Facilities Dismantling Portion S-C;
- Road & Drainage Portion S-C

Marine-based Works

Seawall Modification Works – Portion S-B

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 silt curtain installation in open waters under this Contract. No sighting of the Indo-Pacific humpback dolphin Sousa chinensis (i.e. Chinese White Dolphin) was recorded in November 2019 during the exclusion zone monitoring.

Summary of Breaches of Action/Limit Levels

Breaches of Action and Limit Levels for Air Quality

Five (5) Action Level and Three (3) Limit Level exceedances of 1-hour TSP Monitoring were recorded in the air quality monitoring of this reporting month.

Breaches of Action and Limit Levels for Water Quality

One (1) Action Level exceedance for Depth-averaged suspended soilds was recorded in the water quality monitoring of this reporting month.

Breaches of Action and Limit Levels for Dolphin Monitoring

Whilst one (1) Limit Level exceedance was observed for the quarterly dolphin monitoring data between September and November 2019, no unacceptable impact from the construction activities of the TM-CLKL Northern Connection Sub-sea Tunnel Section on Chinese White Dolphins was noticeable from general observations. Due to monthly variation in dolphin occurrence within the study area, it would be more appropriate to draw conclusion on whether any impacts on dolphins have been detected related to the construction activities of the TM-CLKL Northern Connection Sub-sea Tunnel Section in the quarterly EM&A reports, where comparison on distribution, group size and encounter rates of dolphins between the quarterly impact monitoring period and baseline monitoring period will be made.

Environmental Complaints, Non-compliance & Summons

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

No environmental complaint was received in this reporting period.

No environmental summons was received in this reporting period.

Reporting Change

There was no change in the monitoring programme in this reporting period.

Upcoming Works for the Next Reporting Month

Works to be undertaken in the next monitoring period of December 2019 include the following:

Land-based Works

- Construction of Thermal barrier TBM tunnel;
- Construction of Walkway Corbel & Cover TBM Tunnel;
- Road & Drainage works Portion N-A;
- Gantry Crane Removal Portion N-A;
- RC structure Portion S-A;
- Backfilling Portion S-A & S-C;
- Water Treatment Facilities Dismantling Portion S-C;
- Road & Drainage Portion S-C;
- Tower Crane Removal Portion S-C;
- Gantry Crane Removal Portion S-C

Marine-based Works

• Seawall Modification Works - Portion S-B

Future Key Issue

Potential environmental impacts arising from the above upcoming construction activities in the next reporting month of December 2019 are mainly associated with dust, marine water quality, marine ecology and waste management issues.

INTRODUCTION

1.1 BACKGROUND

1

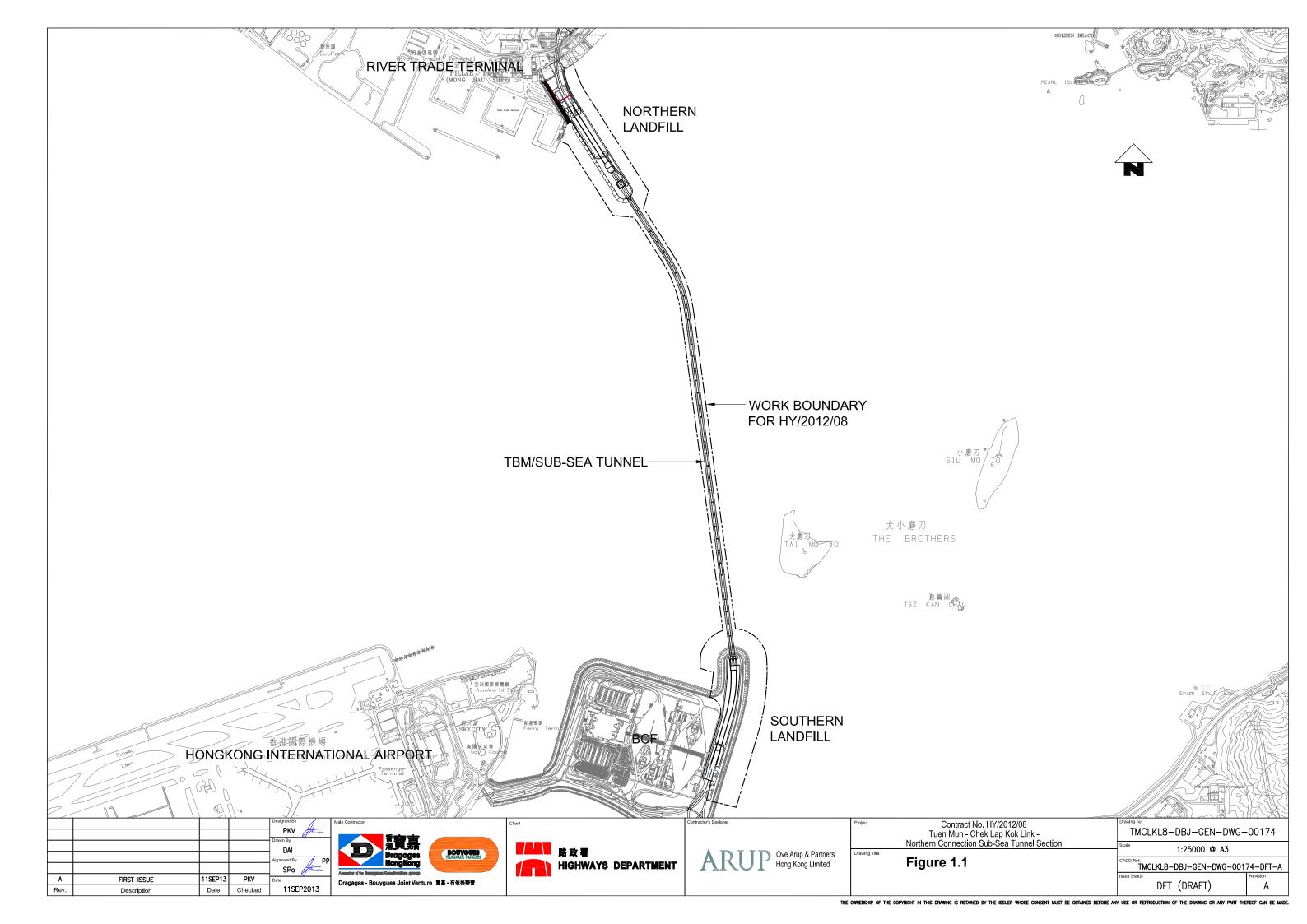
According to the findings of the Northwest New Territories (NWNT) Traffic and Infrastructure Review conducted by the Transport Department, Tuen Mun Road, Ting Kau Bridge, Lantau Link and North Lantau Highway would be operating beyond capacity after 2016. This forecast has been based on the estimated 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 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 in early 2020. 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.



1.2 Scope of Report

This is the Seventy-third 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 November 2019.

1.3 ORGANIZATION STRUCTURE

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

Table 1.1 Contact Information of Key Personnel

Party	Position	Name	Telephone	Fax
Highways Department	Engr 24/SD	Ken T.M. Cheng	2762 4062	3188 6614
SOR (AECOM Asia Company	Chief Resident Engineer	Roger Man	2293 6388	2293 6300
Limited)	ziigiiteei	Andrew Westmoreland	2293 6360	2293 6300
ENPO / IEC	ENPO Leader	Y.H. Hui	3465 2850	3465 2899
(Ramboll Hong Kong Ltd.)	IEC	Dr. F.C. Tsang	3465 2851	3465 2899
Contractor (Dragages - Bouygues Joint Venture)	Deputy Environmental Manager	Bryan Lee	2293 7323	2293 7499
	24-hour hotline		2293 7330	
ET (ERM-HK)	ET Leader	Jasmine Ng	2271 3311	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 Contract are shown in *Figure 1.3*.

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

Table 1.2 Summary of Construction Activities Undertaken during the Reporting Period

Construction Activities Undertaken

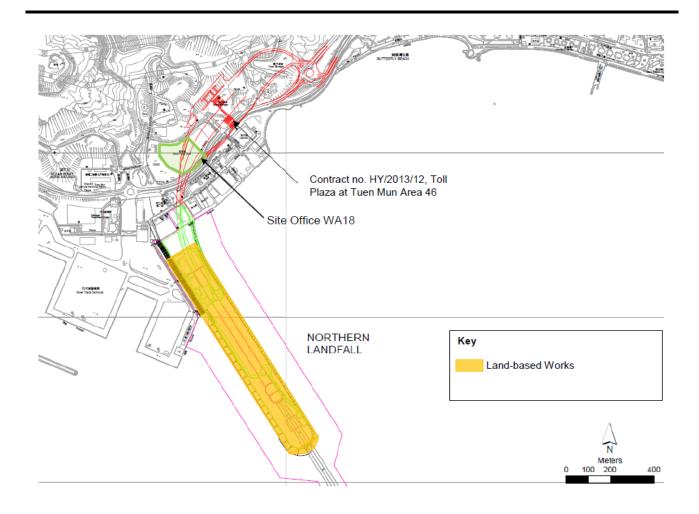
Land-based Works

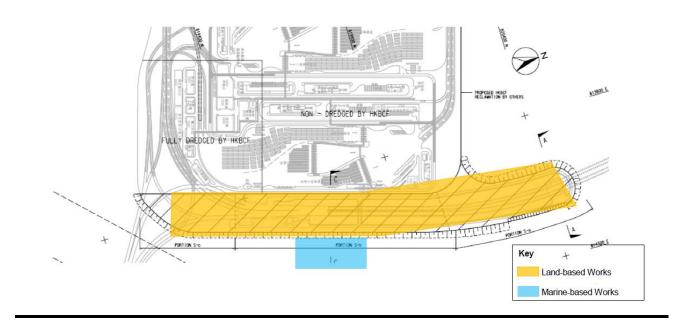
- Construction of Thermal barrier TBM tunnel;
- Construction of Walkway Corbel & Cover TBM Tunnel;
- Road & Drainage works Portion N-A;
- Gantry Crane Removal Portion N-A;
- RC structure Portion S-A;
- Backfilling Portion S-A & S-C;
- Water Treatment Facilities Dismantling Portion S-C;
- Road & Drainage Portion S-C

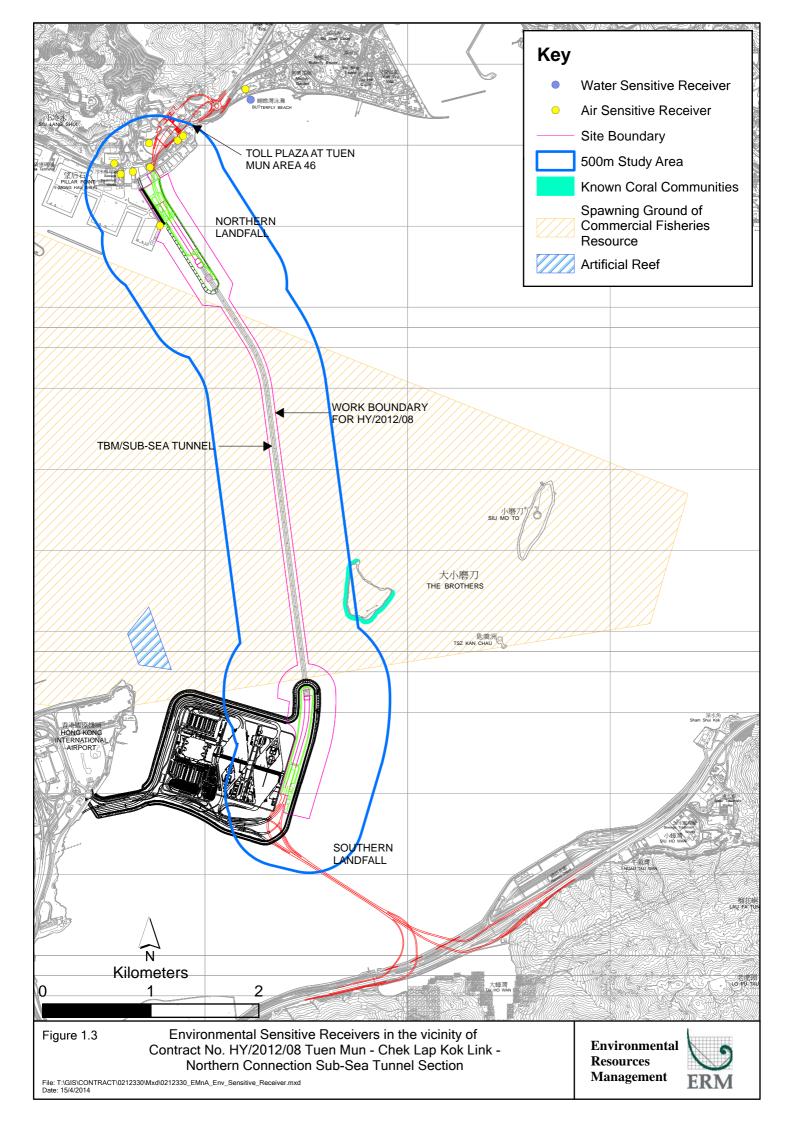
Marine-based Works

• Seawall Modification Works - Portion S-B

Figure 1.2 Locations of Construction Activities - November 2019







2 EM&A RESULTS

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 24-hr 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 1, 4, 7, 10, 13, 16, 19, 22, 25 and 28 November 2019 at the five (5) air quality monitoring stations in accordance with the requirements stipulated in the Updated EM&A Manual (*Figure 2.1*; *Table 2.1*). Wind meter was installed at the rooftop of ASR5 for logging wind speed and wind direction. Details of the equipment deployed are provided in *Table 2.2*. Copies of the calibration certificates for the equipment are presented in *Appendix E*.

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

Monitoring Station	Monitoring Dates	Location	Description	Parameters & Frequency
ASR1	1, 4, 7, 10, 13, 16, 19,	Tuen Mun	Office	TSP monitoring
	22, 25 and 28	Fireboat Station		 1-hour Total Suspended
	November 2019			Particulates (1-hour TSP,
ASR5		Pillar Point Fire	Office	μ g/m³), 3 times in every 6 days
		Station		 24-hour Total Suspended
				Particulates (24-hour TSP,
AQMS1		Previous River	Bare ground	μ g/m³), 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/m³), 3 times in every 3 days
		Park	uses	 24-hour Total Suspended
				Particulates (24-hour TSP,
				μ g/m³), daily for 24-hour in
				every 3 days

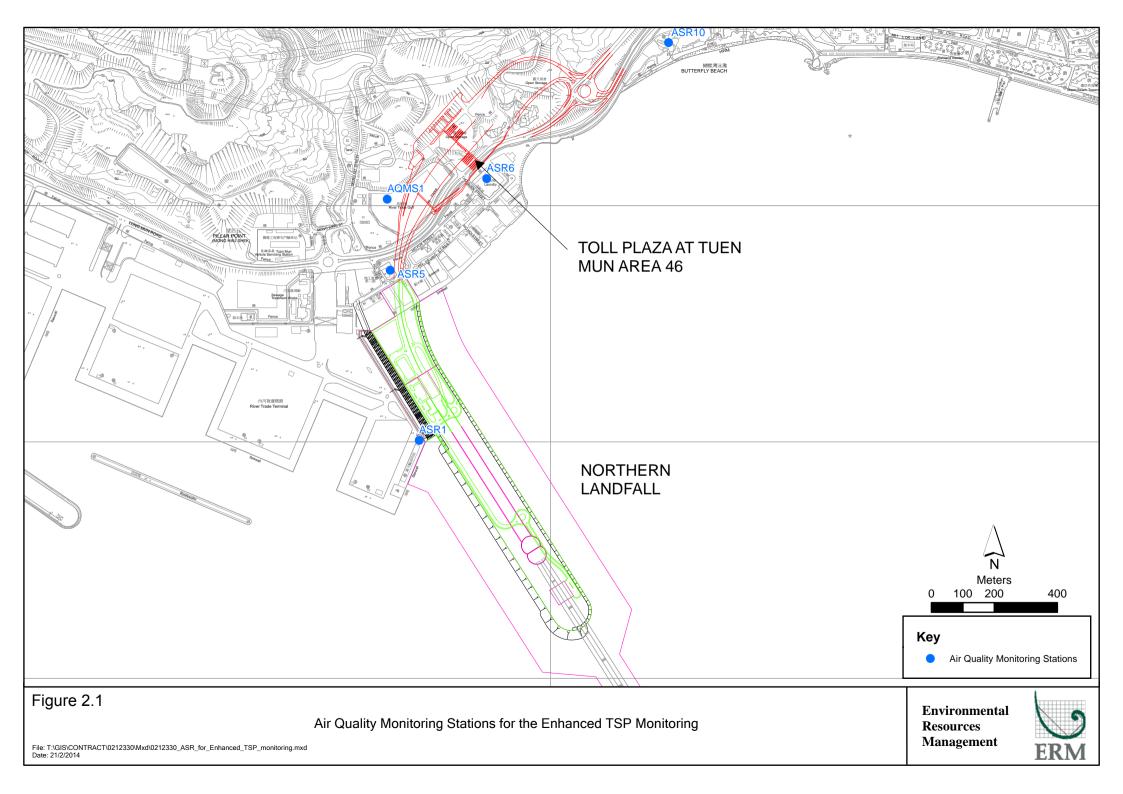


Table 2.2 Air Quality Monitoring Equipment

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 November 2019 is provided in *Appendix F*.

2.1.4 Results and Observations

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

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

Station	Average (µg/m³)	Range (µg/m³)	Action Level (μg/m³)	Limit Level (μg/m³)
ASR1	223	83 - 626	331	500
ASR5	233	91 - 534	340	500
AQMS1	124	66 - 202	335	500
ASR6	139	47 - 216	338	500
ASR10	78	13 - 143	337	500

Table 2.4 Summary 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	135	71 - 207	213	260
ASR5	140	74 - 196	238	260
AQMS1	84	58 - 105	213	260
ASR6	101	56 - 137	238	260
ASR10	64	33 - 92	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 1-hour TSP and 24-hour TSP monitoring were undertaken in this reporting month. Five (5) Action Level and Three (3) Limit Level

exceedances of 1-hour TSP Monitoring were recorded in the air quality monitoring of this reporting month.

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

The Seawall Modification Works has commenced on 12 August 2019. Water quality monitoring was carried out in this reporting month.

In accordance with the approved Environmental Review Report dated 21 March 2018 for the Change in Design of Vertical Seawall to Sloping Seawall on Southern Landfall, Updated Impact water quality monitoring programme and water quality monitoring stations IS17, SR7 and IS(Mf)11 specified under the EM&A Manual for HZMB HKBCF project will be adopted. (*Figure 2.2; Table 2.5*).

The Action and Limit Levels of the water quality monitoring were adopted from the EM&A Manual for HZMB HKBCF project. The Action and Limit Levels are provided in Appendix D.

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

Station ID	Type	Coord	dinates	*Parameters, unit	Depth	Frequency
	•	Easting	Northing	_		
IS(Mf)11	Impact Station	813562	820716	• Temperature(°C)	3 water	Impact
	(Close to			 pH(pH unit) 	depths:	monitoring:
	HKBCF			• Turbidity (NTU)	1m	3 days per
	construction			 Water depth (m) 	below	week, at
	site)			 Salinity (ppt) 	sea	mid-flood
IS17	Impact Station	814539	820391	 DO (mg/L and 	surface,	and mid-
	(Close to			% of	mid-	ebb tides
	HKBCF			saturation)	depth	during the
	construction			 SS (mg/L) 	and 1m	construction
	site)				above	period of

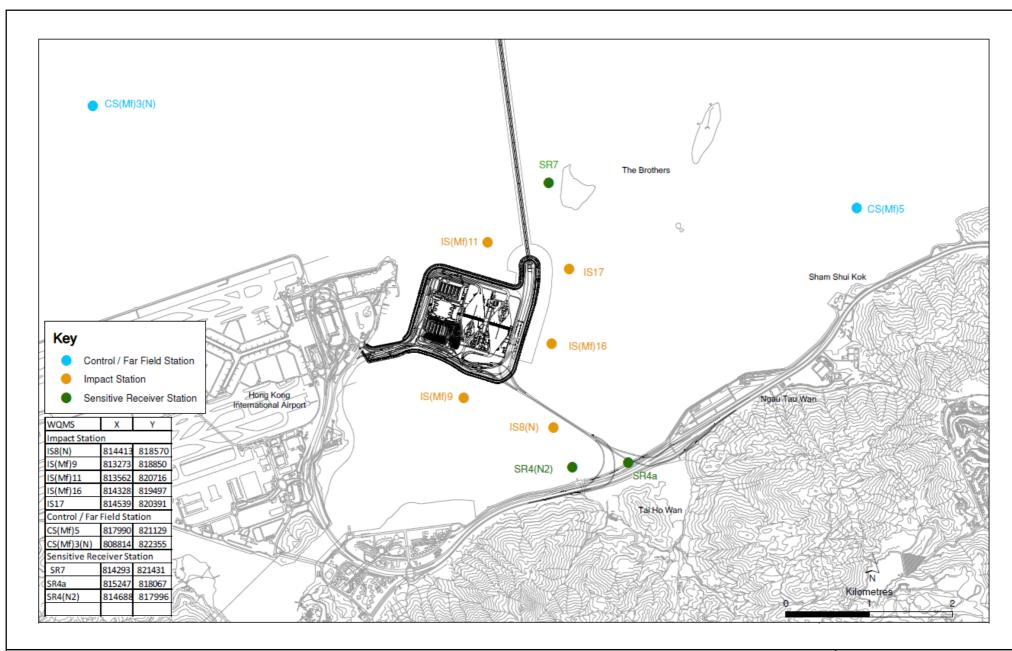


Figure 2.2



Station ID	Type	Coord	linates	*Parameters, unit	Depth	Frequency
SR7	Sensitive	814293	821431		sea bed.	the
	receivers (Tai				If the	Contract.
	Mo Do)				water	
	·				depth is	
					less than	
					3m, mid-	
					depth	
					sampling	
					only. If	
					water	
					depth	
					less than	
					6m, mid-	
					depth	
					may be	
					omitted.	
IS(Mf)9	Impact Station	813273	818850			
	(Close to					
	HKBCF					
	construction					
	site)					
IS(Mf)16	Impact Station	814328	819497			
	(Close to					
	HKBCF					
	construction					
	site)					
IS8(N)	Impact Station	814413	818570			
	(Close to					
	HKBCF					
	construction					
	site)					
SR4(N2)	Sensitive	814688	817996			
	receiver (Tai Ho					
	Inlet)					
SR4a	Sensitive	815247	818067			
	receiver					
CS(Mf)3(N)	Control Station	808814	822355			
CS(Mf)5	Control Station	817990	821129			

^{*}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. Water Quality Monitoring Station CS(Mf)3 was relocated to CS(Mf)3(N) since 2 May 2017.

Water Quality Monitoring Station SR4 was relocated to SR4(N) since 2 March 2018.

Water Quality Monitoring Station SR4(N) was relocated to SR4(N2) since 12 June 2019

Water Quality Monitoring Station IS8 was relocated to IS8(N) since 12 June 2019.

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 2.6 Water Quality Monitoring Equipment

Equipment	Model
Multi-Parameters	YSI ProDss 00019CB2
Multi-Parameters	YSI ProDss 0001C6A7
Multi-Parameters	YSI ProDss 16H104233
Multi-Parameters	YSI ProDss 17H105557
Positioning Equipment	Furuno GP-170
Water Depth Detector	Lowrance Mark 5x / Garmin Striker 4

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 November 2019 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 J*.

In this reporting period, a total of thirteen (13) monitoring events were undertaken in which One (1) Action Level exceedance for Depth-averaged suspended soilds was recorded in the water quality monitoring.

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, Contract No. HY/2012/08 has taken over the responsibility for implementation of dolphin monitoring from HZMB HKLR Contract No. HY/2011/03 since October 2019.

2.3.2 Monitoring Equipment

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

Table 2.7 Dolphin Monitoring Equipment

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

2.3.3 Monitoring Parameter, Frequencies & Duration

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

2.3.4 Monitoring Location

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

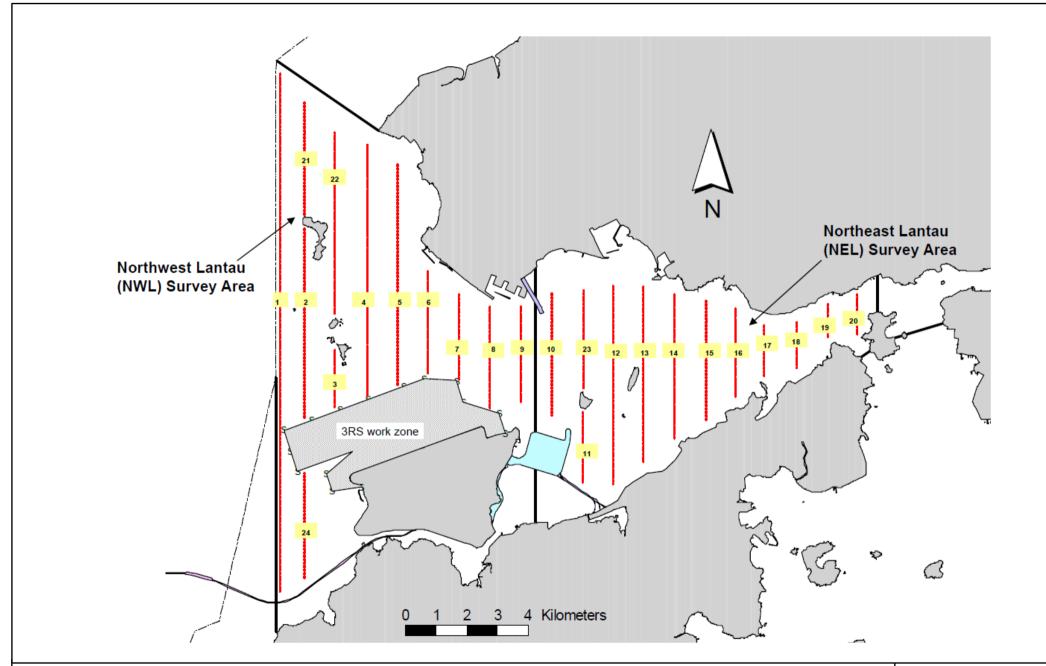


Figure 2.3

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

Environmental Resources Management



 Table 2.8
 Impact Dolphin Monitoring Line Transect Co-ordinates

	Line No.	Easting	Northing		Line No.	Easting	Northing
1	Start Point	804671	815456	13	Start Point	816506	819480
1	End Point	804671	831404	13	End Point	816506	824859
2	Start Point	805476	820800*	14	Start Point	817537	820220
2	End Point	805476	826654	14	End Point	817537	824613
3	Start Point	806464	821150*	15	Start Point	818568	820735
3	End Point	806464	822911	15	End Point	818568	824433
4	Start Point	807518	821500*	16	Start Point	819532	821420
4	End Point	807518	829230	16	End Point	819532	824209
5	Start Point	808504	821850*	17	Start Point	820451	822125
5	End Point	808504	828602	17	End Point	820451	823671
6	Start Point	809490	822150*	18	Start Point	821504	822371
6	End Point	809490	825352	18	End Point	821504	823761
7	Start Point	810499	822000*	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	821176	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	24*	Start Point	805476*	815900*
12	End Point	815542	824882	24*	End Point	805476*	819100*

Remarks: The coordinates of several starting and ending points have been revised due to the presence of a work zone to the north of the airport platform with intense construction activities in association with the construction of the third runway expansion for the Hong Kong International Airport. Co-ordinates in red and marked with asterisk are revised co-ordinates of transect line.

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 5, 19, 27 and 28 of November 2019. The dolphin monitoring schedule for the reporting month is shown in *Appendix F*.

2.3.7 Results & Observations

A total of 265.50 km of survey effort was collected, with 98.8% of the total survey effort being conducted under favourable weather conditions (i.e. Beaufort Sea State 3 or below with good visibility) in November 2019. Among the two areas, 98.80 km and 166.70 km of survey effort were collected from NEL and NWL survey areas, respectively. The total survey effort conducted on primary and secondary lines were 189.94 km and 75.56 km respectively. The survey efforts are summarized in *Appendix I*.

One Chinese White Dolphins sighting was recorded during the two sets of surveys in November 2019. The dolphin sighting was made in NWL, while none was sighted in NEL. The lone dolphin sighting was made during oneffort search and was made on primary lines. The dolphin groups were 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 November 2019 with the results present in *Tables 2.9* and *2.10*.

 Table 2.9
 Individual 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: November 5 th / 19 th	0.0	0.0	
NLL	Set 2: November 27 th / 28 th	0.0	0.0	
NWL	Set 1: November 5 th / 19 th	1.7	1.7	
INVVL	Set 2: November 27th / 28th	0.0	0.0	

Note: Dolphin Encounter Rates are deduced from the Two Sets of Surveys (Two Surveys in Each Set) in November 2019 in Northeast (NEL) and Northwest Lantau (NWL)

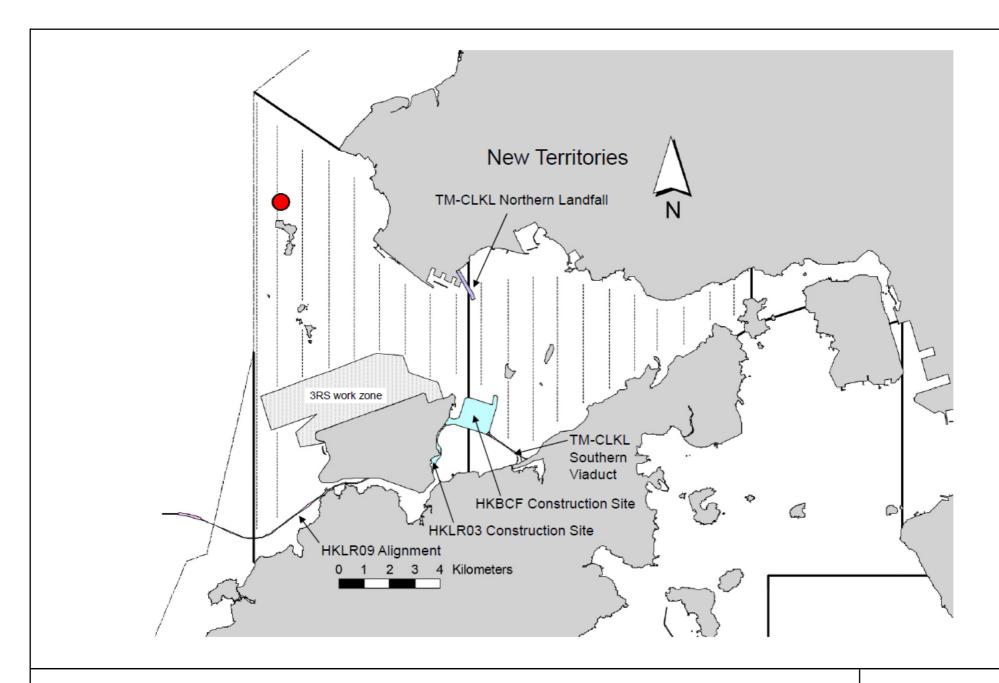


Figure 2.4



 Table 2.10
 Monthly Average Encounter Rates

	(no. of on-ef	rate (STG) fort dolphin 00 km of survey ort)	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	0.9	0.6	0.9	0.6	

Note: Overall dolphin encounter rates (sightings per 100 km of survey effort) from all four surveys are conducted in November 2019 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 Contract 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 silt curtain installation in open waters under this Contract. No sighting of the Indo-Pacific humpback dolphin Sousa chinensis (i.e. Chinese White Dolphin) was recorded in November 2019 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 7, 14, 21 and 28 November 2019.

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

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

Inspection Date	Observations	Recommendations/ Remarks
7 November 2019	 Works Area - TBM tunnel The cement batching station should be sheltered on top and 3 sides. Works Area - Portion S-A Drip tray should be provided for the chemical containers. Broken water barrier should be removed. Reminder from the SOR Works Area - Portion S-A The lifting eyes should be filled with sand. 	 Works Area - TBM tunnel The Contractor was reminded to shelter the cement batching station on top and 3 sides. Works Area - Portion S-A The Contractor was reminded to provide drip tray for the chemical containers. The Contractor was reminded to remove the broken barrier. Reminder from the SOR Works Area - Portion S-A The Contractor was reminded to fill the lifting eyes with sand.
14 November 2019	 Works Area - Portion S-B The damaged NRMM label for the excavator should be replaced. Works Area - Portion N-A Water spraying should be applied on main haul raod. Drip tray should be provided for the chemical containers. Reminder from the SOR Works Area - Portion S-B Stagnant water should be cleared. 	 Works Area - Portion S-B The Contractor was reminded to replace the damaged NRMM label for the excavator. Works Area - Portion N-A The Contractor was reminded to apply water spraying on main haul road. The Contractor was reminded to provide drip tray for the chemical containers. Reminder from the SOR Works Area - Portion S-B The Contractor was reminded to clear the stagnant water.
21 November 2019	 Works Area - TBM tunnel The NRMM label should be replaced. Food waste from the skip should be removed and better housekeeping should be maintained. Works Area - Portion S-B Drip tray should be provided for the chemical containers. Reminder from the SOR Works Area - Portion S-A Broken water barrier should be replaced. 	 Works Area - TBM tunnel The Contractor was reminded to replace the NRMM label. The Contractor was reminded to remove the food waste from the skip and maintain better housekeeping. Works Area - Portion S-B The Contractor was reminded to provide drip tray for the chemical containers. Reminder from the SOR Works Area - Portion S-A The Contractor was reminded to replace the broken water barrier.

Inspection Date	Observations	Recommendations/ Remarks
28 November 2019	Works Area – Portion S-A	Works Area – Portion S-A
	 Food waste should be removed. 	 The Contractor was reminded to remove
	Works Area – TBM tunnel	the food waste.
	 The faded NRMM label should be replaced. 	Works Area – TBM tunnel
		 The Contractor was reminded to replace
		the NRMM label.

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 2.12 Quantities of Different Waste Generated in the Reporting Month

Month/Year	Inert Construction	Inert Construction	Non-inert Construction	Recyclable Materials (c)	Chemical Wastes	Marine Sediment (m³)		(m³)
	Waste (a) (tonnes)	Waste Re- used (tonnes)	Waste (b) (tonnes)	(kg)	(kg)	Category L	Category M (M _p & M _f)	Mixed (L+M)
November 2019	6,215	0	525	273,630	1,000	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.

Table 2.13 Summary of Environmental Licensing and Permit Status

License/ Permit	License or Permit No.	Date of Issue	Date of Expiry	License/ Permit Holder	Remarks
Environmental Permit	EP-354/2009/D	13 March 2015	Throughout the Contract	HyD	Application for VEP on 3 March 2015 to
Canal median Deal	2/2510	10 A	There exists and the Company	DDIV	supersede EP-354/2009/C
Construction Dust Notification	363510	19 August 2013	Throughout the Contract	DBJV	Northern Landfall
Construction Dust	403620	10 June 2016	Throughout the Contract	DBJV	Southern Landfall
Notification		•	O	•	
Chemical Waste	5213-422-D2516-02	18 January 2017	Throughout the Contract	DBJV	Northern Landfall
Registration					
Chemical Waste	5213-951-D2591-01	25 May 2016	Throughout the Contract	DBJV	Southern Landfall
Registration					
Construction Waste	7018108	28 August 2013	Throughout the Contract	DBJV	Waste disposal in Contract No. HY/2012/08
Disposal Account					
Waste Water Discharge	WT00031435-2018	2 August 2018	31 August 2023	DBJV	Southern Landfall
License					
Waste Water Discharge	WT00034060-2019	25 July 2019	30 June 2024	DBJV	Northern Landfall (4 Discharge Point)
License					
Construction Noise Permit	GW-RW0406-18	17 October 2019	15 April 2020	DBJV	Urmston Road in front of Pillar Point
Construction Noise Permit	GW-RW0374-19	20 August 2019	19 February 2020	DBJV	WA23 @ Tsing Yi
Construction Noise Permit	GW-RS0766-19	2 September 2019	25 February 2020	DBJV	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

Five (5) Action Level and Three (3) Limit Level exceedances of 1-hour TSP Monitoring were recorded in the air quality monitoring of this reporting month.

One (1) Action Level exceedance for Depth-averaged suspended soilds was recorded in the water quality monitoring of this reporting month.

One (1) Limit Level exceedance was observed for the quarterly dolphin monitoring data between September and November 2019

Cumulative statistics are provided in *Appendix L*.

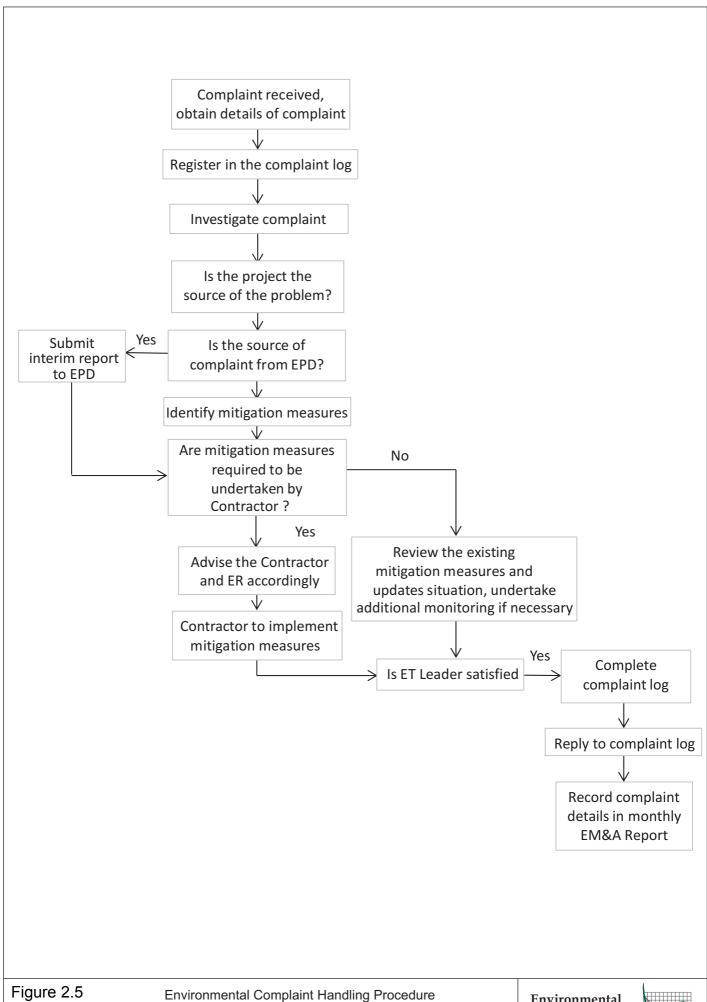
2.9 SUMMARY OF COMPLAINTS, NOTIFICATION OF SUMMONS AND SUCCESSFUL PROSECUTIONS

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

No environmental complaint was received in this reporting period.

No environmental summons was received in this reporting period.

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



Environmental Resources Management



3 FUTURE KEY ISSUES

3.1 CONSTRUCTION ACTIVITIES FOR THE COMING MONTH

As informed by the Contractor, the major works for the Contract in December 2019 are summarized in *Table 3.1*.

Table 3.1 Construction Works to Be Undertaken in the Coming Month

Works to be undertaken

Land-based Works

- Construction of Thermal barrier TBM tunnel;
- Construction of Walkway Corbel & Cover TBM Tunnel;
- Road & Drainage works Portion N-A;
- Gantry Crane Removal Portion N-A;
- RC structure Portion S-A;
- Backfilling Portion S-A & S-C;
- Water Treatment Facilities Dismantling Portion S-C;
- Road & Drainage Portion S-C;
- Tower Crane Removal Portion S-C;
- Gantry Crane Removal Portion S-C

Marine-based Works

• Seawall Modification Works - Portion S-B

3.2 KEY ISSUES FOR THE COMING MONTH

Potential environmental impacts arising from the above upcoming construction activities in the next reporting month of December 2019 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 December 2019 is provided in *Appendix F*.

4 CONCLUSIONS AND RECOMMENDATIONS

4.1 CONCLUSIONS

This Seventy-third Monthly EM&A Report presents the findings of the EM&A activities undertaken during the period from 1 to 30 November 2019 , 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), water quality monitoring and dolphin monitoring were carried out in this reporting month.

Five (5) Action Level and Three (3) Limit Level exceedances of 1-hour TSP Monitoring were recorded in the air quality monitoring of this reporting month.

One (1) Action Level exceedance for Depth-averaged suspended soilds was recorded in the water quality monitoring of this reporting month.

One Chinese White Dolphins sighting was recorded during the two sets of surveys in November 2019. The dolphin sighting was made in NWL, while none was sighted in NEL. The lone dolphin sighting was made during oneffort search and was made on primary lines. The dolphin groups were not associated with any operating fishing vessel.

Environmental site inspection was carried out four (4) times in November 2019. Remedial actions recommended for the deficiencies identified during the site audits were properly implemented by the Contractor.

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

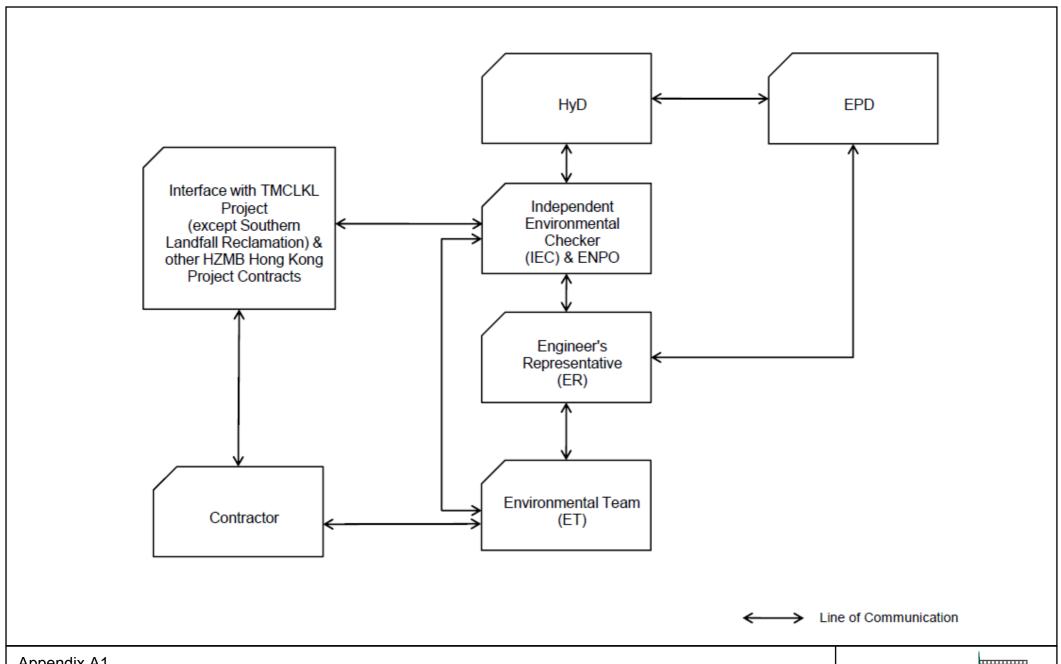
No environmental complaint was received in this reporting period.

No environmental summons was received in this reporting period.

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

Appendix A

Project Organization for Environmental Works



Appendix A1

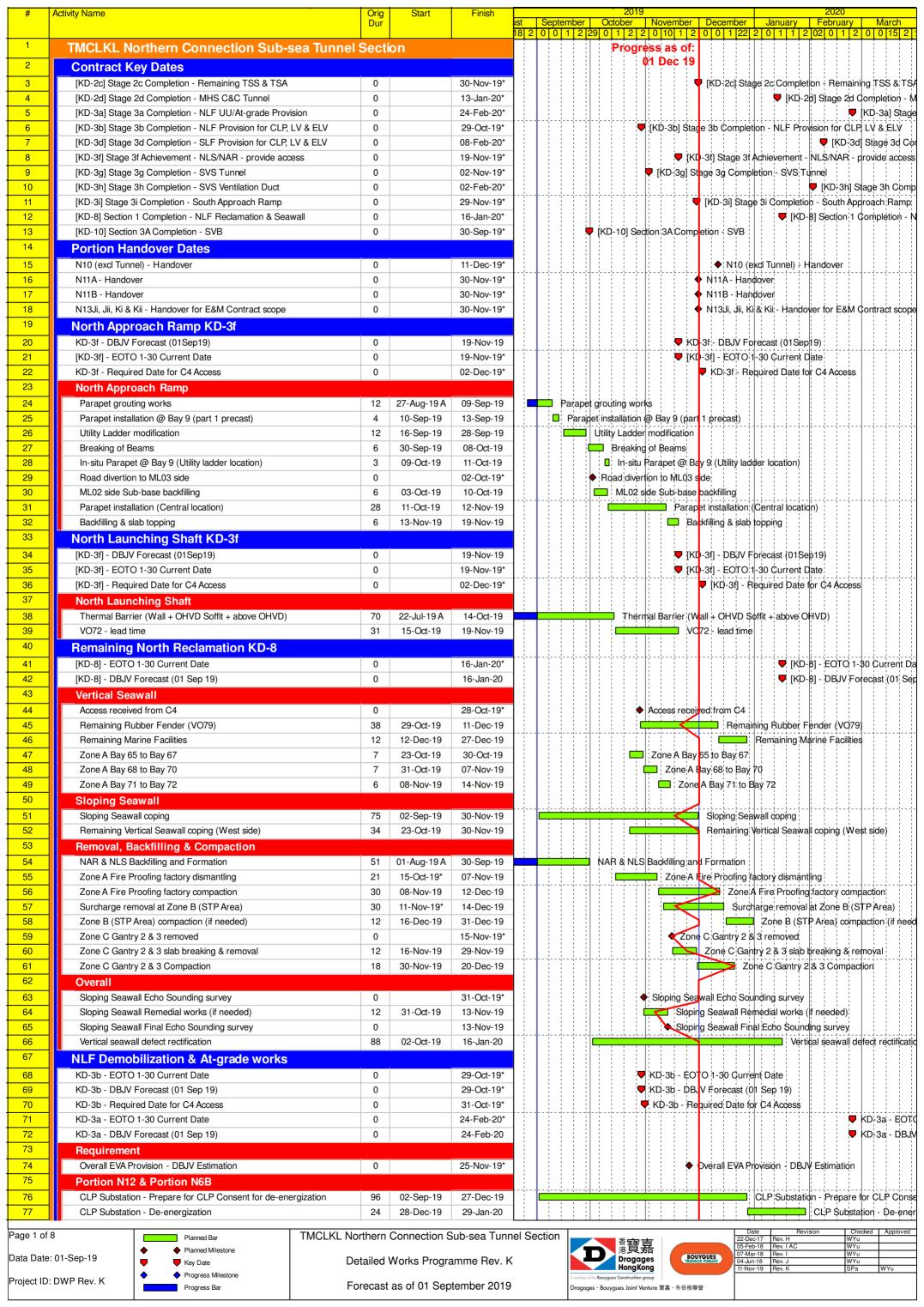
Contract No. HY/2012/08 Northern Connection Sub-sea Tunnel Section **Project Organization**

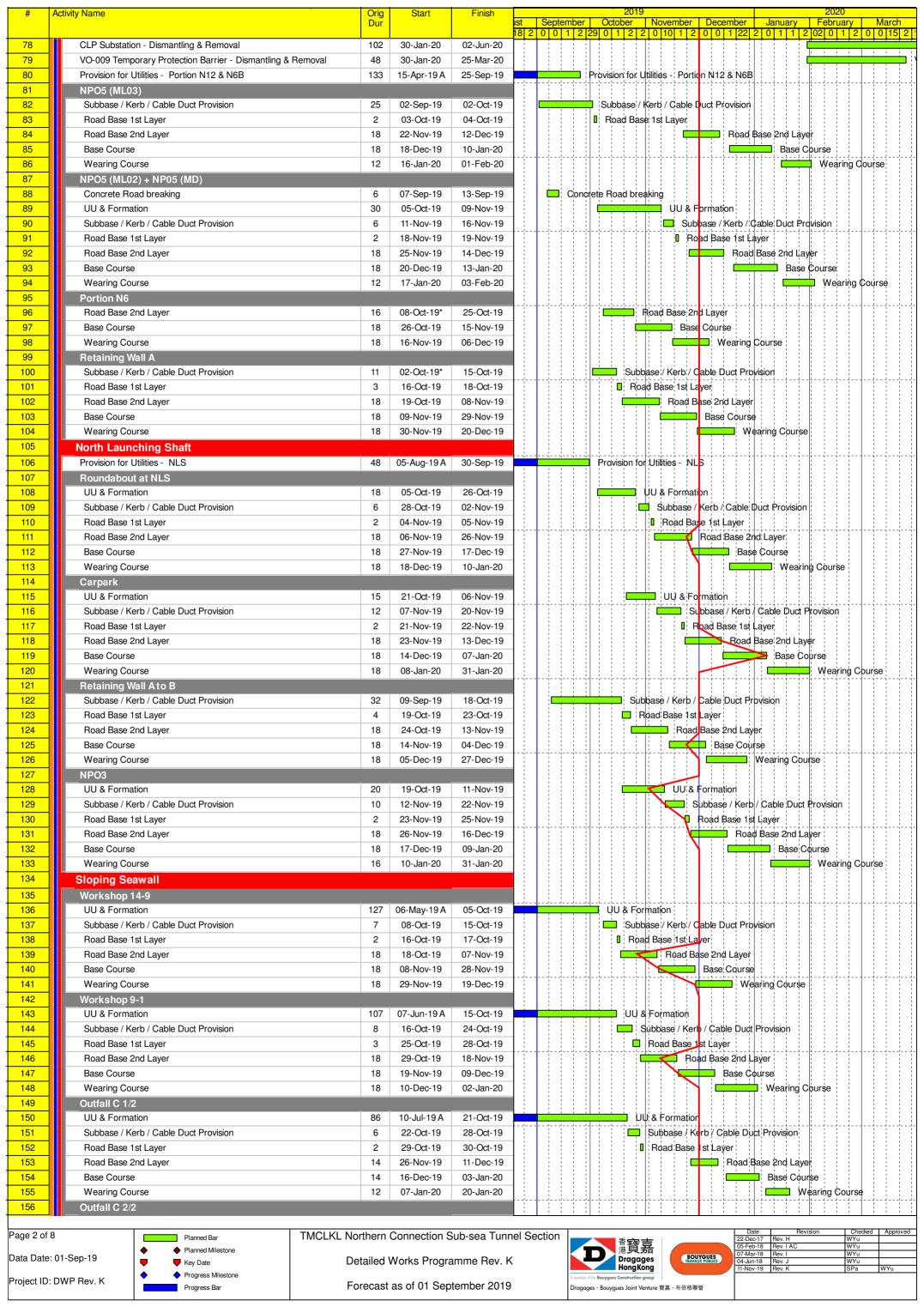
Environmental Resources Management

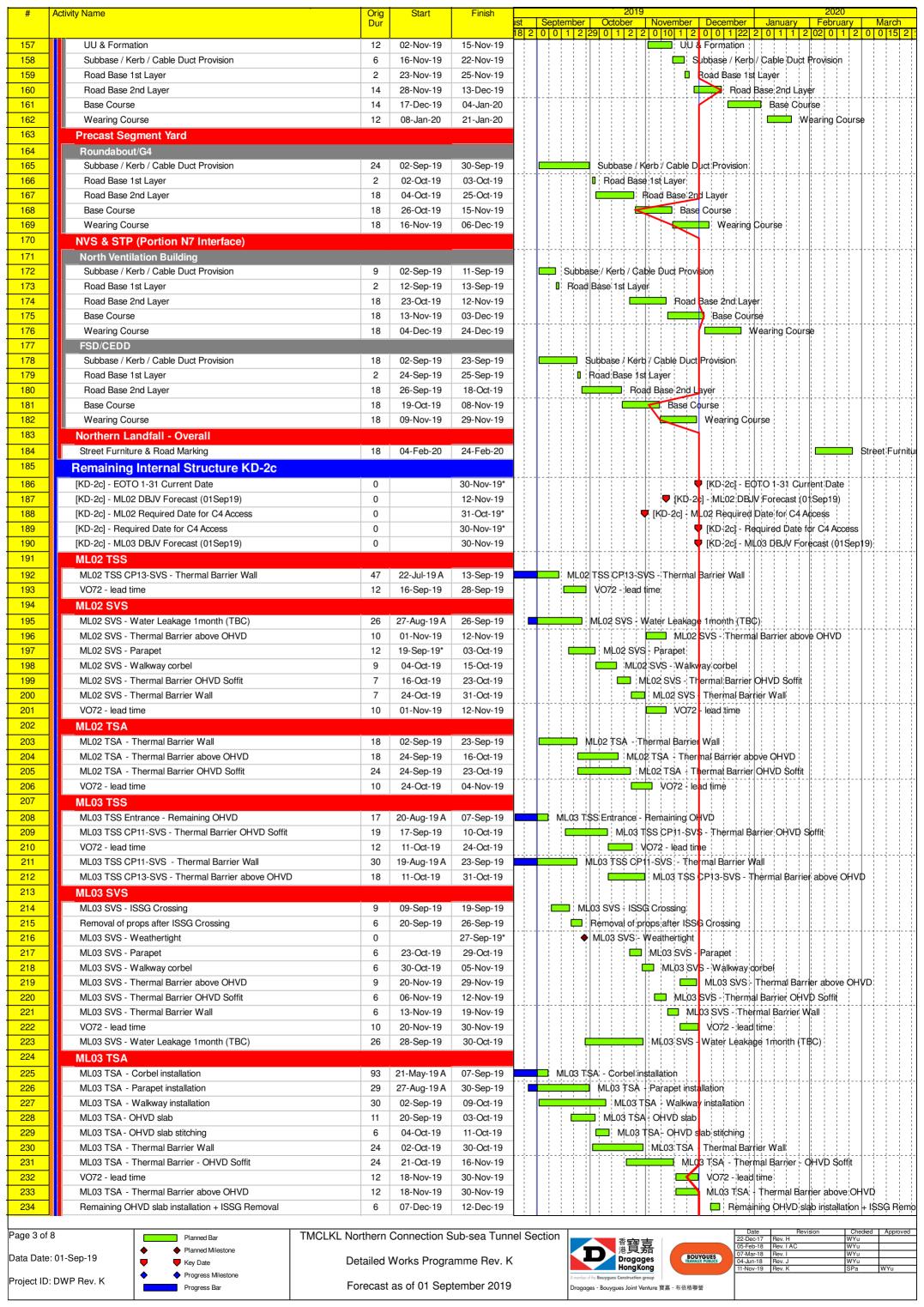


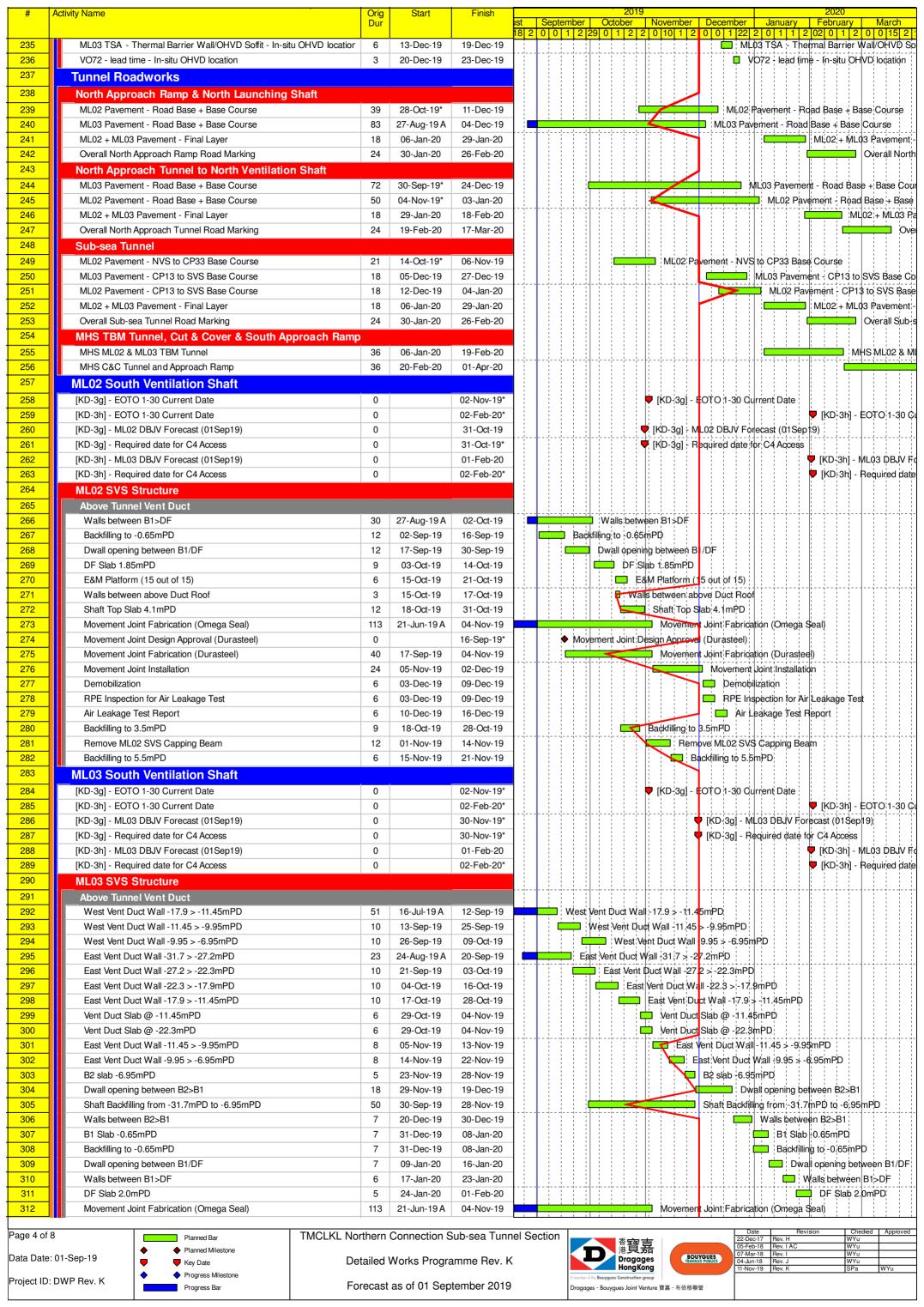
Appendix B

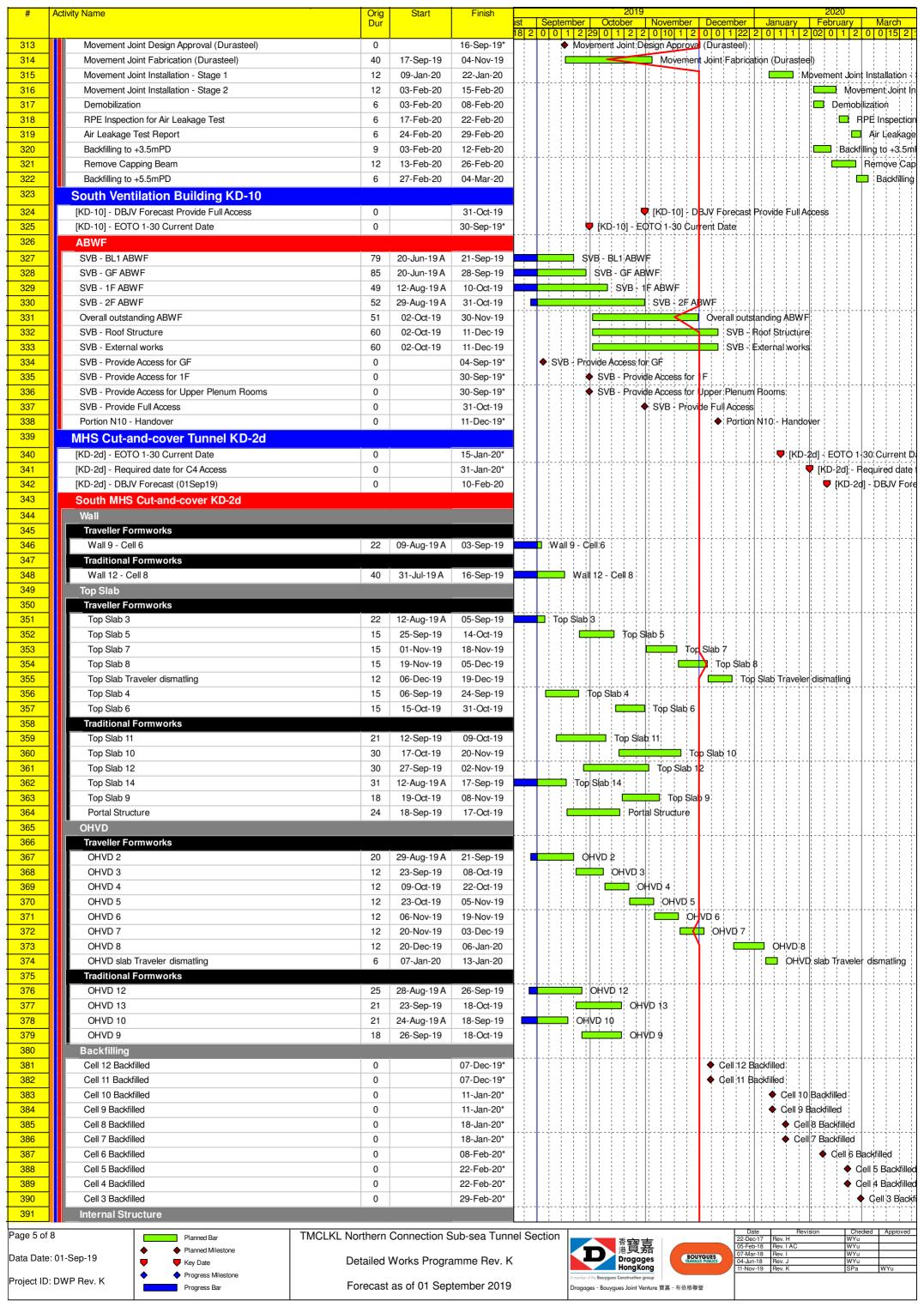
Construction Programme

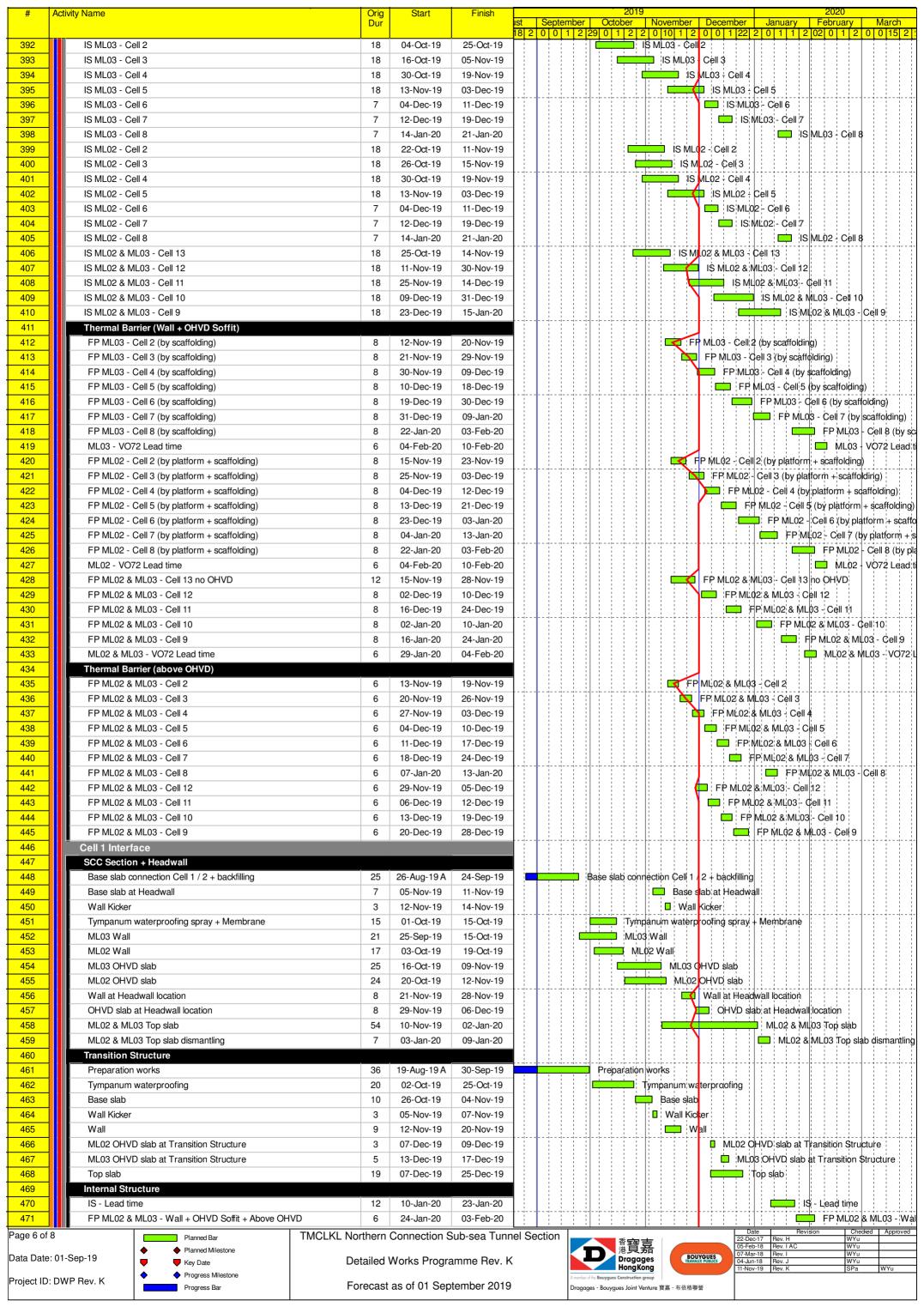




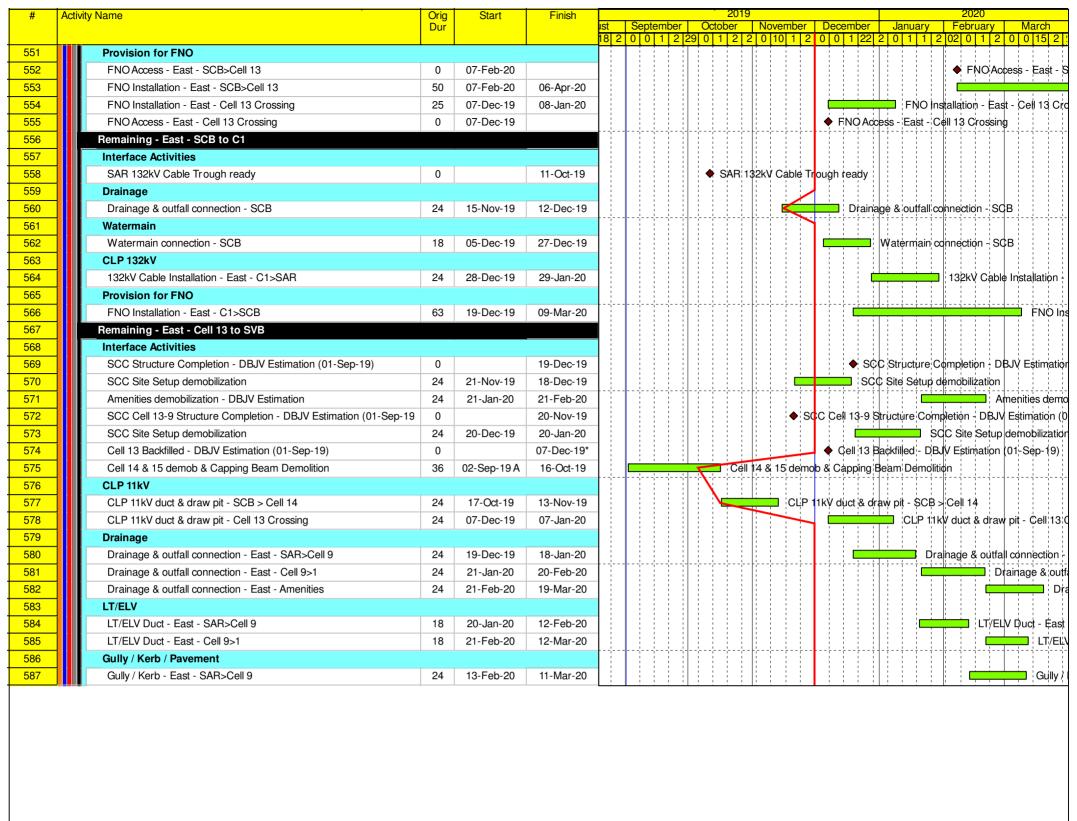


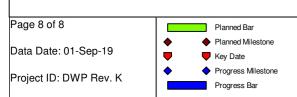


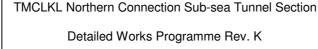




#	Activity Name	Orig	Start	Finish	2019 2020
170	NOTE IN LEGIS	Dur	0.5100	10.5.1.00	Ist September October November December January February March 18 2 0 0 1 2 29 0 1 2 2 0 10 1 2 2 0 0 1 2 2 0 10 1 2 2 0 0 1 2 2 0 1 1 2 0 0 1 2 2 0 0 1 2 2 0 0 1 2 2 0 0 1 2 2 0 0 1 2 2 0 0 1 2 2 0 0 1 1 2 0 0 0 1 2 2 0 0 1 2 0 0 1 2 0 0 0 1 2 2 0 0 0 1 2 0 0 0 1 2 0 0 0 1 2 0 0 0 0
472 473	VO72 - Lead Time	6	04-Feb-20	10-Feb-20	VO72 - Lead Time
474	MHS Approach Ramp KD-3i [KD-3i] - DBJV Forecast (01Sep19)	0		29-Nov-19	▼ [KD-3i] - DBJV, Forecast (01Sep19)
474	[KD-3i] - BOTO 1-30 Current Date	0		29-Nov-19*	□ [KD-3i] - Bbb V Forecast (d13ep19) □ [KD-3i] - EΦTΦ 1-30 Current Date
476	[KD-3i] - Required Date for C4 Access	0		31-Dec-19*	▼ [KD-3i] - Required Date for C4 Access
477	South Approach Ramp				
478	RC Structure				
479	Waterprrofing, Backfilling & Compaction	216	11-Mar-19 A	29-Nov-19	Waterprrofing, Backfilling & Compaction
480 481	Portion N11A,B, N13K,J - Handover Internal Structure	0		29-Nov-19	Portion N11 A.B. N13 K.J Handover
482	SAR Parapet (East & West) Type SAR-1 to 3	40	02-Aug-19 A	18-Sep-19	SAR Parapet (East & West) Type SAR-1 to 3
483	Cell 14/15 Parapet (East & West) Type SAR-4	18	19-Sep-19	11-Oct-19	Cell 14/15 Parapet (East & West) Type SAR-4
484	SAR Parapet (Middle) Type SAR-5	30	12-Oct-19	15-Nov-19	SAR Parapet (Middle) Type SAR-5
485	De-mobilizaiton	12	16-Nov-19	29-Nov-19	De-mobilizaiton
486	Southern Landfall - Surface				
487 488	[KD-3d] - EOTO 1-30 Current Date	0		08-Feb-20*	▼ [KD-3d] - ÉOTO 1-30
489	HKBCF Seawall Modification (schedule TE HKBCF Vertical Seawall - place Armour Rock	81	26-Aug-19 A	30-Nov-19	HKBCF Vertical Seawall - place Armour Rock
490	UU / At-grade works	01	20 / lag 10 / l	30 1407 13	The second secon
491	South Road & Drain KD-3c				
492	South Ventilation Building - Provision for FSI				
493	Requirement				
494	SVB - Water Connection - DBJV Estimation	0		04-Jan-20	SVB - Water Connection - DBJV Estir
495 496	SVB - FNO completion - DBJV Estimation SVB - EVA provision - DBJV Estimation	0		30-Jan-20 20-Feb-20	◆ SVB + FNO completion - □ SVB + EVA provi
497	SVB - Water Connection - AECOM	0		30-Dec-19*	SVB - Water Connection - AECOM
498	SVB - FNO completion - AECOM	0		21-Jan-20*	◆ SVB - FNO completion - AEC
499	SVB - EVA provision - AECOM	0		21-Jan-20*	◆ SVB - EVA provision - AECON
500	SVB - FSI - AECOM	0		31-Jan-20*	♦ SVB- FSI - AECOM
501 502	CLP 11kV CLP 11kV duct & draw pit - West - Cell 9>1	51	18-Jul-19 A	16-Sep-19	CLP 11kV duct & draw pit - West - Cell 9-1
502	CLP 11kV duct & draw pit - West - Cell 9>1 CLP 11kV duct & draw pit - SVS / SVB	24	24-Sep-19	23-Oct-19	CLP 11kV duct & draw pit - \$V\$ / \$VB
504	CLP 11kV duct & draw pit - West - Cell 1>SVS	36	12-Aug-19 A	23-Sep-19	CLP 11kV duct & draw pit - VVest - Cell 1>SVS
505	Drainage				
506	Drainage & outfall connection - West - SVS / SVB	24	20-Aug-19 A	17-Sep-19	Drainage & outfall connection - Vest - SVS / \$VB
507 508	Drainage & outfall connection - West - Cell 9>1 Drainage & outfall connection - West - SAR>Cell 9	24	18-Sep-19 18-Oct-19	17-Oct-19 14-Nov-19	Drainage & outfall connection - West - Cell 9>1
509	Watermain	24	18-00:19	14-1100-19	Dialitage & outlain confliction - West - SAN-Cell 9
510	Watermain - West - SVS/SVB	18	02-Oct-19*	23-Oct-19	Watermain - West - SVS/SVB
511	Watermain - West - Cell 9>1	18	24-Oct-19	13-Nov-19	Watermain + West - Cell 9>1
512	Watermain - West - SAR>Cell 9	18	14-Nov-19	04-Dec-19	Watermain - West - SAR>Cell 9
513	Watermain - Connection	24	05-Dec-19	04-Jan-20	Watermain - Connection
514 515	LT/ELV LT/ELV Duct - West - SVS/SVB	18	02-Oct-19*	23-Oct-19	LT/ELV Duct - West - SVS/SVB
516	LT/ELV Duct - West - Cell 9>1	18	24-Oct-19	13-Nov-19	LT/ELV Duct - West - Cell 9>1
517	LT/ELV Duct - West - SAR>Cell 9	18	14-Nov-19	04-Dec-19	LT/ELV Duct - West - SAR>Cell 9
518	Provision for FNO				
519 520	FNO Access - SVS/SVB - DBJV Estimation FNO Access - Cell 9>1 - DBJV Estimation	0	17-Oct-19 07-Nov-19		◆ FNO Access - SVS/SVB - DBJV Estimation ◆►FNO Access - Cell 9>1 - DBJV Estimation
521	FNO Access - SAR>Cell 9 - DBJV Estimation	0	28-Nov-19		FNO Access - SAR-Cell 9 - DBJV Estimation
522	FNO Installation - SVS/SVB	18	17-Oct-19	06-Nov-19	FNO Installation - SV\$/SVB
523	FNO Installation - Cell 9>1	18	07-Nov-19	27-Nov-19	FNO Installation - Cell 9>1
524	FNO Installation - SAR>Cell 9	25	28-Nov-19	28-Dec-19	FNO Installation - SAR≯Cell 9
525 526	FNO Commisioning for SVB Gully / Kerb / Pavement	24	30-Dec-19	30-Jan-20	FNO Commisioning for SV
526	Gully / Kerb / Pavement Gully / Kerb - West - SVS/SVB	24	07-Nov-19*	04-Dec-19	Gully / Kerlo - West - \$V\$/SVB
528	Gully / Kerb - West - Cell 9>1	24	28-Nov-19	27-Dec-19	Gully / Kerb - West - Cell 9>1
529	Gully / Kerb - West - SAR>Cell 9	24	30-Dec-19	30-Jan-20	Gully / Kerb - West - SAR
530	Pavement - West - SVS/SVB	18	05-Dec-19	27-Dec-19	Pavement - West - SVS/SVB
531 532	Pavement - West - Cell 9>1 Pavement - West - SAR>Cell 9	18	28-Dec-19 31-Jan-20	18-Jan-20 20-Feb-20	Pavement - West - Cell 9>1
532	Satellite Control Building - Provision for FSI	18	JI-Jail-20	20-160-20	Pavement - Wes
534	Requirement				
535	SCB - 11kV Route Provision - DBJV Estimation	0		30-Oct-19	CB - 11kV Route Provision - DBJV Estimation
536	SCB - Provision for ELV / Power Cable - DBJV Esti			07-Feb-20	SCB: Provision for EL
537 538	SCB - 11kV Route Provision - AECOM SCB - Provision for ELV / Power Cable - AECOM	0		30-Oct-19* 01-Feb-20*	◆ SCB - 11kV Route Provision - AECOM ◆ SCB - Provision for ELV
538	Interface Activities	U		01-1 ED-20	SCB - Frovision for ELV)
540	Cell 12 Backfilled for Access - DBJV Estimation (01-	-Sep-19) 0		07-Dec-19*	◆ Gell 12 Backfilled for Access - DBJV Estimation (01
541	CLP 11kV				
542	11kV draw pit at SAR entrance - construction	24	02-Oct-19	30-Oct-19	11kV draw pit at SAR entrance - construction
543 544	CLP 11kV duct & draw pit - Ramp F Crossing	63	18-Jul-19 A	30-Sep-19	CLP 11kV duct & draw pit - Ramp F Crossing
544	Drainage Drainage & outfall connection - SCB	24	13-Dec-19	13-Jan-20	Drainage & outfall connection - S
546	Watermain	27		2 3011 20	
547	Watermain - SCB	18	14-Jan-20	06-Feb-20	Watermain - SCB
548	Watermain connection - SCB	24	07-Feb-20	05-Mar-20	Watermal Watermal
549	LT/ELV Provision SCP	10	14 1 00	07 5-5-00	
550	LT/ELV Provision - SCB	18	14-Jan-20	07-Feb-20	Date Revision Checked Approved
Page 7 of		TMCLKL Northern	Connection S	Sub-sea Tunr	nel Section 香寶嘉 港寶嘉
Data Date	: 01-Sep-19	Detailed \	Works Progra	amme Rev. K	Dragages Bouyeus Or-twar-10 Hev. J WYU O-Jun-18 Rev. J WYU WYU
Project ID	DWP Rev. K				A member of the Bouygues Construction group
,	Progress Bar	rorecast	as of 01 Sep	nember 2019	Dragages - Bouygues Joint Venture 寶嘉 - 布依格聯營







Forecast as of 01 September 2019





Appendix C

Environmental Mitigation and Enhancement Measure Implementation Schedules

Tuen Mun - Chek Lap Kok Link

Northern Connection Sub-sea Tunnel Section

Environmental Mitigation and Enhancement Measure Implementation Schedule

EIA Reference	EM&A Manual Reference	ual	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Imp	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		√
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		√

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	Kererence					D	С	O	
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		✓
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;							

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Northern Connection Sub-sea Tunnel Section

Environmental Mitigation and Enhancement Measure Implementation Schedule

EIA Reference	EM&A H Manual Reference	Manual	Location/ Timing	Implementation Agent	n Relevant Standard or Requirement	Imp	olementa Stages	tion	Status *
	Keference					D	С	O	
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		√
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		√
		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		*
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		√
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;							

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Environmental Mitigation and Enhancement Measure Implementation Schedule

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement		olementa Stages		Status *
	Reference					D	С	O	
		 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	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;		Contractor	TM-EIAO		Y		*
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		√

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	Kererence					D	C	O	
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		√
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		Contractor	Marine Fill Committee		Y		√

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	Reference					D	C	O	
		adjacent to the works site.			Guidelines. DASO permit conditions.				
6.1	5.2	Silt curtain shall have proved effectiveness from the producer and shall be fully maintained throughout the works by the contractor.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		√
6.1	-	The daily maximum production rates shall not exceed those assumed in the water quality assessment.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓
6.1	-	The dredging and filling works shall be scheduled to spread the works evenly over a working day.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		√
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.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		*
6.1	-	Silt removal facilities, channels and manholes shall be maintained and any deposited silt and grit shall be removed regularly, including specifically at the onset of and after each rainstorm.		Contractor	TM-EIAO		Y		√
6.1	-	Temporary access roads should be surfaced with crushed stone or gravel.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		√

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	Reference					D	С	0	
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		√
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		*
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		✓

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	Kererence					D	С	O	
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		*
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		√
6.1	-	Roadside gullies to trap silt and grit shall be provided prior to discharging the stormwater into the marine environment. The sumps will be maintained and cleaned at regular intervals.	Roadside/design and operation	Design Consultant/ Contractor	TM-EIAO	Y		Y	✓
6.1	Section 5	All construction works shall be subject to routine audit to ensure implementation of all EIA recommendations and good working practice.	All areas/ throughout construction period	Contractor	EM&A Manual		Y		*
Water Quality Mor	iitoring								
6.1 ECOLOGY	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.	as defined in EM&A Manual, Section 5/ Before, through-out	Contractor	EM&A Manual		Y	Y	~

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	Kererence					D	C	О	
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.	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		√
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		√

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	Reference					D	C	О	
7.13	6.5	Construction activities should be restricted to the proposed works boundary.	All areas / Throughout construction period	Contractor	TMEIA		Y		✓
LANDSCAPE A	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
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		√

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12.6		The Contractor shall prepare and implement a Waste Management Plan which specifies procedures such as a ticketing system, to facilitate tracking of loads and to ensure that illegal disposal of wastes does not occur, and protocols for the maintenance of records of the quantities of wastes generated, recycled and disposed. A recording system for the amount of waste generated, recycled and disposed (locations) should be established.		Contractor	TMEIA, Works Branch Technical Circular No. 5/99 for the Trip-ticket System for Disposal of Construction and Demolition Material		Y		✓
12.6		The Contractor shall apply for and obtain the appropriate licenses for the disposal of public fill, chemical waste and effluent discharges.	Contract mobilisation	Contractor	TMEIA, Land (Miscellaneous Provisions) Ordinance (Cap 28); Waste Disposal Ordinance (Cap 354); Dumping at Sea Ordinance (Cap 466); Water Pollution Control Ordinance.		Y		√
12.6	8.1	Training shall be provided to workers about the concepts of site cleanliness and appropriate waste management procedures including waste reduction, reuse and recycling.		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.		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		<>

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	Reference				Ī	D	С	О	
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 All areas / throughout at any sensitive locations. The Contractor should propose the final construction period disposal sites in the EMP and WMP for approval before implementation.		Contractor	TMEIA		Y		✓
12.6	8.1	Stockpiled material shall be covered by tarpaulin and /or watered as appropriate to prevent windblown dust/ surface run off.	All areas / throughout construction period	Contractor	TMEIA		Y		√
12.6	8.1	Excavated material in trucks shall be covered by tarpaulins to reduce the potential for spillage and dust generation.	All areas / throughout construction period	Contractor	TMEIA		Y		√
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.		Contractor	TMEIA		Y		~

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	Reference					D	С	О	
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		√
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: f suitable for the substance to be held, resistant to corrosion, maintained in good conditions and securely closed; f 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. f Clearly labelled and used solely for the storage of chemical wastes; f Enclosed with at least 3 sides; f Impermeable floor and bund with capacity to accommodate 110% of the volume of the largest container or 20% by volume of the chemical waste stored in the area, whichever is greatest; f Adequate ventilation; f Sufficiently covered to prevent rainfall	construction period	Contractor	TMEIA		Y		\(\)

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

Tuen Mun - Chek Lap Kok Link

Northern Connection Sub-sea Tunnel Section

Environmental Mitigation and Enhancement Measure Implementation Schedule

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Stages			Status *
	Kererence					D	С	О	
		entering (water collected within the bund must be tested and disposed of as chemical waste, if necessary); and 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 onsite 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
12.6	8.1	General refuse arising on-site should be stored in enclosed bins or compaction units separately from C&D and chemical wastes. Sufficient dustbins shall be provided for storage of waste as required under the Public Cleansing and Prevention of Nuisances Bylaws. In addition, general refuse shall be cleared daily and shall be disposed of to the nearest licensed landfill or refuse transfer station. Burning of refuse on construction sites is prohibited.	construction period	Contractor	TMEIA		Y		✓
12.6	8.1	All waste containers shall be in a secure area on hardstanding;	All areas / throughout construction period	Contractor	TMEIA		Y		√
12.6	8.1	Training shall be provided to workers about the concepts of site cleanliness and appropriate waste management procedure, including waste reduction, reuse and recycling.	. 0	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		✓

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

Tuen Mun - Chek Lap Kok Link

Northern Connection Sub-sea Tunnel Section

Environmental Mitigation and Enhancement Measure Implementation Schedule

EIA Reference	Manual	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Imp	lementa Stages	tion	Status *
	Reference					D	C	О	
12.6		EM&A of waste handling, storage, transportation, disposal procedures and documentation through the site audit programme shall be undertaken.		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

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

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

Parameters	Action	Limit
24 Hour TSP Level in μg/m³	ASR1 = 213	260
	ASR5 = 238	
	AQMS1 = 213	
	ASR6 = 238	
	ASR10 = 214	
1 Hour TSP Level in μg /m³	ASR1 = 331	500
Ü	ASR5 = 340	
	AQMS1 = 335	
	ASR6 = 338	
	ASR10 = 337	

Table D2 Action and Limit Levels for Water Quality

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

Notes:

- # Baseline data: data from HKZMB Baseline Water Quality Monitoring between 6 and 31 October 2011.
- (a) For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.
- (b) "Depth-averaged" is calculated by taking the arithmetic means of reading of all three depths
- (c) For turbidity and SS, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.
- (d) All figures given in the table are used for reference only, and EPD may amend the figures whenever it is considered as necessary
- (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.
- (f) The AL/LL for WQM stations, IS(Mf)11, IS17 and SR7, are adopted from HZMB HKBCF project.

Table D3 Action and Limit Levels for Impact Dolphin Monitoring

	North Lant	au Social Cluster
	NEL	NWL
Action Level	STG < 70% of baseline &	STG < 70% of baseline &
	ANI < 70% of baseline	ANI < 70% of baseline
Limit Level	[STG < 40% of baseling	ne & ANI < 40% of baseline]
		and
	STG < 40% of baselir	ne & ANI < 40% of baseline

Notes:

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

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

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

Appendix E

Copies of
Calibration
Certificates for Air
and Water Quality
Monitoring

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

Location : ASR 5
Calibrated by : P.F.Yeung
Date : 08/10/2019

Sampler

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

Calibration Orifice and Standard Calibration Relationship

Serial Number : 2454

Service Date : 25 February 2019

 Slope (m)
 : 2.07076

 Intercept (b)
 : -0.02917

 Correlation Coefficient(r)
 : 1.00000

Standard Condition

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

Calibration Condition

Pa (hpa) : 1016 Ta(K) : 302

Resi	stance Plate	dH [green liquid]	Z	X=Qstd	IC	Y
		(inch water)		(cubic meter/min)	(chart)	(corrected)
1	18 holes	12.2	3.475	1.692	55	54.72
2	13 holes	9.4	3.050	1.487	50	49.74
3	10 holes	7.0	2.632	1.285	45	44.77
4	7 holes	4.8	2.180	1.067	38	37.80
5	5 holes	2.4	1.541	0.758	30	29.84

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)

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

Location : ASR10
Calibrated by : P.F.Yeung
Date : 08/10/2019

Sampler

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

Calibration Orifice and Standard Calibration Relationship

Serial Number : 2454

Service Date : 25 February 2019

 Slope (m)
 : 2.07076

 Intercept (b)
 : -0.02917

 Correlation Coefficient(r)
 : 1.00000

Standard Condition

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

Calibration Condition

Pa (hpa) : 1016 Ta(K) : 302

Resi	stance Plate	dH [green liquid]	Z	X=Qstd	IC	Y
		(inch water)		(cubic meter/min)	(chart)	(corrected)
1	18 holes	11.2	3.329	1.622	52	51.73
2	13 holes	9.0	2.984	1.455	48	47.75
3	10 holes	6.4	2.517	1.229	43	42.78
4	7 holes	4.4	2.087	1.022	36	35.81
5	5 holes	2.4	1.541	0.758	28	27.86

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

Sampler Calibration Relationship (Linear Regression)

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

Location : AQMS1
Calibrated by : P.F.Yeung
Date : 08/10/2019

Sampler

 Model
 :
 TE-5170

 Serial Number
 :
 S/N 1253

Calibration Orifice and Standard Calibration Relationship

Serial Number : 2454

Service Date : 25 February 2019

 Slope (m)
 : 2.07076

 Intercept (b)
 : -0.02917

 Correlation Coefficient(r)
 : 1.00000

Standard Condition

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

Calibration Condition

Pa (hpa) : 1016 Ta(K) : 302

Resi	stance Plate	dH [green liquid]	Z	X=Qstd	IC	Y
		(inch water)		(cubic meter/min)	(chart)	(corrected)
1	18 holes	12.0	3.446	1.678	54	53.72
2	13 holes	9.2	3.017	1.471	50	49.74
3	10 holes	6.6	2.556	1.248	44	43.77
4	7 holes	4.5	2.110	1.033	38	37.80
5	5 holes	2.8	1.665	0.819	30	29.84

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

Sampler Calibration Relationship (Linear Regression)

Slope(m):27.662 Intercept(b):8.404 Correlation Coefficient(r): 0.9939

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

Location : ASR 1
Calibrated by : P.F.Yeung
Date : 08/10/2019

Sampler

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

Calibration Orifice and Standard Calibration Relationship

Serial Number : 2454

Service Date : 25 February 2019

 Slope (m)
 : 2.07076

 Intercept (b)
 : -0.02917

 Correlation Coefficient(r)
 : 1.00000

Standard Condition

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

Calibration Condition

Pa (hpa) : 1016 Ta(K) : 302

Resistance Plate		dH [green liquid]	Z	X=Qstd	IC	Y
		(inch water)		(cubic meter/min)	(chart)	(corrected)
1	18 holes	11.4	3.359	1.636	54	53.72
2	13 holes	9.0	2.984	1.455	49	48.75
3	10 holes	6.5	2.536	1.239	44	43.77
4	7 holes	4.2	2.039	0.999	36	35.81
5	5 holes	2.5	1.573	0.774	28	27.86

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

Sampler Calibration Relationship (Linear Regression)

Slope(m):<u>29.723</u> Intercept(b):<u>5.704</u> Correlation Coefficient(r): <u>0.9966</u>

High-Volume TSP Sampler 5-Point Calibration Record

Location : ASR 6
Calibrated by : P.F.Yeung
Date : 08/10/2019

Sampler

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

Calibration Orifice and Standard Calibration Relationship

Serial Number : 2454

Service Date : 25 February 2019

 Slope (m)
 : 2.07076

 Intercept (b)
 : -0.02917

 Correlation Coefficient(r)
 : 1.00000

Standard Condition

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

Calibration Condition

Pa (hpa) : 1016 Ta(K) : 302

Resi	stance Plate	dH [green liquid]	Z	X=Qstd	IC	Y
		(inch water)		(cubic meter/min)	(chart)	(corrected)
1	18 holes	12.2	3.475	1.692	56	55.71
2	13 holes	9.4	3.050	1.487	50	49.74
3	10 holes	6.8	2.594	1.267	45	44.77
4	7 holes	4.6	2.134	1.044	38	37.80
5	5 holes	2.8	1.665	0.818	30	29.84

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

Sampler Calibration Relationship (Linear Regression)



RECALIBRATION
DUE DATE:

February 25, 2020

Certificate of Calibration

Calibration Certification Information

Cal. Date: February 25, 2019

Rootsmeter S/N: 438320

Ta: 294

°K

Operator: Jim Tisch

Pa: 762.0

mm Hg

Calibration Model #: TE-5025A

Calibrator S/N: 2454

Run	Vol. Init (m3)	Vol. Final (m3)	ΔVol. (m3)	ΔTime (min)	ΔP (mm Hg)	ΔH (in H2O)
1	1	2	1	1.4400	3.2	2.00
2	3	4	1	1.0200	6.4	4.00
3	5	6	1	0.9120	7.9	5.00
4	7	8	1	0.8700	8.8	5.50
5	9	10	1	0.7180	12.8	8.00

		Data Tabula	tion		
Vstd (m3)	Qstd (x-axis)	$ \sqrt{\Delta H \left(\frac{Pa}{Pstd}\right) \left(\frac{Tstd}{Ta}\right)} $ (y-axis)	Va	Qa (x-axis)	$\sqrt{\Delta H \Big(Ta/Pa \Big)}$ (y-axis)
1.0120	0.7028	1.4257	0.9958	0.6915	0.8784
1.0077	0.9880	2.0162	0.9916	0.9722	1.2423
1.0057	1.1028	2.2542	0.9896	1.0851	1.3889
1.0045	1.1546	2.3642	0.9885	1.1362	1.4567
0.9992	1.3916	2.8513	0.9832	1.3694	1.7569
	m=	2.07076		m=	1.29667
QSTD	b=	-0.02917	QA	b=	-0.01797
	r=	1.00000		r=	1.00000

	Calculation		
Vstd=	ΔVol((Pa-ΔP)/Pstd)(Tstd/Ta)	Va= ΔVol((Pa-ΔP)/P	a)
Qstd=	Vstd/∆Time	Qa= Va/ΔTime	
	For subsequent flow rat	calculations:	
Qstd=	$1/m\left(\left(\sqrt{\Delta H\left(\frac{Pa}{Pstd}\right)\left(\frac{Tstd}{Ta}\right)}\right)-b\right)$	Qa= 1/m((√ΔH(Ta	a/Pa))-b)

	Standard Conditions
Tstd:	298.15 °K
Pstd:	760 mm Hg
	Key
ΔH: calibrator	manometer reading (in H2O)
ΔP: rootsmete	er manometer reading (mm Hg)
Ta: actual abs	olute temperature (°K)
Pa: actual bar	ometric pressure (mm Hg)
b: intercept	
m: clone	

RECALIBRATION

US EPA recommends annual recalibration per 1998
40 Code of Federal Regulations Part 50 to 51,
Appendix B to Part 50, Reference Method for the
Determination of Suspended Particulate Matter in
the Atmosphere, 9.2.17, page 30

Tisch Environmental, Inc. 145 South Miami Avenue Village of Cleves, OH 45002 www.tisch-env.com

TOLL FREE: (877)263-7610 FAX: (513)467-9009



輝創工程有限公司

Sun Creation Engineering Limited Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No.:

C193443

證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號: IC19-1283)

Date of Receipt / 收件日期: 21 June 2019

Description / 儀器名稱

Anemometer

Manufacturer/製造商

Lutron

Model No./型號

AM-4201

Serial No. / 編號

AF.27513

Supplied By / 委託者

Envirotech Services Co.

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

New Territories, Hong Kong

TEST CONDITIONS / 測試條件

Temperature / 溫度 :

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

Relative Humidity / 相對濕度 :

 $(50 \pm 25)\%$

Line Voltage / 電壓 :

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期

2 July 2019

TEST RESULTS / 測試結果

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

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

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

- Testo Industrial Services GmbH, Germany

Tested By

測試

TF Lee

Assistant Engineer

Certified By

核證

H C Chan

Engineer

Date of Issue

5 July 2019

簽發日期

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

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



輝創工程有限公司

Sun Creation Engineering Limited Calibration & Testing Laboratory

Certificate of Calibration 校正談書

Certificate No.: (

C193443

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 CL386

Description

Multi-function Measuring Instrument

Certificate No.

S16493

4. Test procedure: MA130N.

5. Results:

Air Velocity

Applied	UUT	Measured Correction		
Value	Reading	Value	Measurement Unce	ertainty
(m/s)	(m/s)	(m/s)	Expanded Uncertainty (m/s)	Coverage Factor
2.0	1.8	+0.2	0.2	2.0
4.0	3.8	+0.2	0.3	2.0
6.0	5.8	+0.2	0.3	2.0
8.1	7.9	+0.2	0.3	2.0
10.1	10.0	+0.1	0.4	2.0

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

- The expanded uncertainties are for a level of confidence of 95 %.

Note:

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

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

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

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

ENVIROTECH SERVICES CO.

Calibration Report of Wind Meter

Date of Calibration :	15 August 2019	
Brand of Test Meter:	Davis	
Model:	Vantage Pro 2 (s/n: AS160104014)	
Location:	Roof of Tuen Mun Firestation	
Procedures:		
1. Wind Still Test:	The wind speed sensor was hold by hand un	til it keep still
2.Wind Speed Test:	The wind meter was on-site calibrated again	ast the Anemometer
3.Wind Direction Test:	The wind meter was on-site calibrated again	ast the marine compass at four directions
Results:		
Wind Still Test		
	Wind Speed (m/s)	
	0.00	
Wind Speed Test		

Davis (m/s)	Anemometer (m/s)
3.3	3.7
2.8	2.4
1.1	1.2

Wind Direction Test

Davis (o)	Marine Compass (o)
270	270
0	0
89	90
181	180

Calibrated by: Checked by : Fact

Yeung Ping Fai

(Technical Officer) Checked by : Fact

Ho Kam Fat

(Senior Technical Officer)



Unit 10, 14/F, Wah Wai Centre, 38-40 Au Pui Wan St., Fotan, Hong Kong Email: info@qualityprotest.com; Website: www.qualityprotest.com Tel: (852) 3956 8717; Fax: (852) 3956 3928

REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Report No.

AI090154

Date of Issue

02 October 2019

Page No.

1 of 2

PART A - CUSTOMER INFORMATION

Enovative Environmental Service Ltd. Flat 2207, Yu Fun House, Yu Chui Court, Shatin New Territories, Hong Kong Attn: Mr. Thomas WONG

PART B - DESCRIPTION

Name of Equipment

YSI ProDSS (Multi-Parameters)

Manufacturer

YSI (a xylem brand)

Serial Number

16H104233

Date of Received

Sep 27, 2019

Date of Calibration

Sep 27, 2019

Date of Next Calibration(a)

Dec 26, 2019

PART C – REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

Parameter

Reference Method

pH at 25°C

APHA 21e 4500-H+ B APHA 21e 4500-O G

Dissolved Oxygen Conductivity at 25°C

APHA 21e 2510 B

Salinity

APHA 21e 2520 B

Turbidity

APHA 21e 2130 B

Temperature

Section 6 of international Accreditation New Zealand Technical

Guide no. 3 Second edition March 2008: Working Thermometer Calibration Procedure.

PART D - CALIBRATION RESULTS(b,c)

(1) pH at 25°C

Target (pH unit)	Displayed Reading(d) (pH Unit)	Tolerance(e)(pH Unit)	Results
4.00	4.03	0.03	Satisfactory
7.42	7.44	0.02	Satisfactory
10.01	10.06	0.05	Satisfactory

Tolerance of pH should be less than ±0.20 (pH unit)

(2) Temperature

Reading of Ref. thermometer (°C)	Displayed Reading (°C)	Tolerance (°C)	Results
10.0	10.0	0.0	Satisfactory
22.0	22.1	0.1	Satisfactory
42.0	42.2	0.2	Satisfactory

Tolerance limit of temperature should be less than ±2.0 (°C)

~ CONTINUED ON NEXT PAGE ~

Remark(s): -

- The "Date of Next Calibration" is recommended according to best practice principals as practiced by QPT or quoted form relevant international standards.
- The results relate only to the calibrated equipment as received
- The performance of the equipment stated in this report is checked with independent reference material and results compared against a calibrated secondary source.
- "Displayed Reading" denotes the figure shown on item under calibration/checking regardless of equipment precision or significant figures.
- The "Tolerance Limit" mentioned is referenced to YSI product specifications.



REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Report No.

AI090154

Date of Issue

: 02 October 2019

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PART D - CALIBRATION RESULTS (Cont'd)

(3) Dissolved Oxygen

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)	Results
0.78	0.75	-0.03	Satisfactory
3.69	3.98	0.29	Satisfactory
5.77	5.4	-0.37	Satisfactory
7.68	7.82	0.14	Satisfactory

Tolerance limit of dissolved oxygen should be less than ±0.50 (mg/L)

(4) Conductivity at 25°C

Conc. of KCl (M)	Expected Reading (µS/cm)	Displayed Reading (μS/cm)	Tolerance (%)	Results
0.001	146.9	138.9	-5.45	Satisfactory
0.01	1412	1380	-2.27	Satisfactory
0.1	12890	12834	-0.43	Satisfactory
0.5	58670	57663	-1.72	Satisfactory
1.0	111900	109858	-1.82	Satisfactory

Tolerance limit of conductivity should be less than ±10.0 (%)

(5) Salinity

Expected Reading (g/L)	Displayed Reading (g/L)	Tolerance (%)	Results
10	10.16	1.60	Satisfactory
20	20.38	1.90	Satisfactory
30	30.47	1.57	Satisfactory

Tolerance limit of salinity should be less than ±10.0 (%)

(6) Turbidity

Expected Reading (NTU)	Displayed Reading ^(f) (NTU)	Tolerance ^(g) (%)	Results
0	0.11		Satisfactory
10	9.89	-1.1	Satisfactory
20	19.82	-0.9	Satisfactory
100	97.25	-2.8	Satisfactory
800	780.16	-2.5	Satisfactory

Tolerance limit of turbidity should be less than ± 10.0 (%)

~ END OF REPORT ~

Remark(s): -

relevant international standards.

⁽g) "Displayed Reading" presents the figures shown on item under calibration/ checking regardless of equipment precision or significant figures.
(g) The "Tolerance Limit" mentioned is the acceptance criteria applicable for similar equipment used by Quality Pro Test-Consult Ltd. or quoted form



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REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Report No.

AI100183

Date of Issue

30 October 2019

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PART A - CUSTOMER INFORMATION

Enovative Environmental Service Ltd. Flat 2207, Yu Fun House, Yu Chui Court, Shatin New Territories, Hong Kong Attn: Mr. Thomas WONG

PART B - DESCRIPTION

Name of Equipment

YSI 6920V2 (Multi-Parameters)

Manufacturer

YSI (a xylem brand)

Serial Number

00019CB2

Date of Received

Oct 28, 2019

Oct 28, 2019

Date of Calibration

Date of Next Calibration(a)

Jan 27, 2020

PART C - REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

Parameter

Reference Method

pH at 25°C

APHA 21e 4500-H+ B APHA 21e 4500-O G

Dissolved Oxygen Conductivity at 25°C

APHA 21e 2510 B

Salinity

APHA 21e 2520 B

Turbidity Temperature APHA 21e 2130 B Section 6 of international Accreditation New Zealand Technical

Guide no. 3 Second edition March 2008: Working Thermometer Calibration Procedure.

PART D - CALIBRATION RESULTS(b,c)

(1) pH at 25°C

Target (pH unit)	Displayed Reading(d) (pH Unit)	Tolerance ^(e) (pH Unit)	Results
4.00	3.95	-0.05	Satisfactory
7.42	7.36	-0.06	Satisfactory
10.01	9.93	-0.08	Satisfactory

Tolerance of pH should be less than ±0.20 (pH unit)

(2) Temperature

Reading of Ref. thermometer (°C)	Displayed Reading (°C)	Tolerance (°C)	Results
15.0	15.1	0.1	Satisfactory
25.0	24.9	-0.1	Satisfactory
35.0	34.9	-0.1	Satisfactory

Tolerance limit of temperature should be less than ±2.0 (°C)

~ CONTINUED ON NEXT PAGE ~

Remark(s): -

The "Date of Next Calibration" is recommended according to best practice principals as practiced by QPT or quoted form relevant international standards.

The results relate only to the calibrated equipment as received

The performance of the equipment stated in this report is checked with independent reference material and results compared against a calibrated secondary source.

"Displayed Reading" denotes the figure shown on item under calibration/checking regardless of equipment precision or significant figures.

The "Tolerance Limit" mentioned is referenced to YSI product specifications.



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PART D - CALIBRATION RESULTS (Cont'd)

(3) Dissolved Oxygen

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)	Results
1.04	0.80	-0.24	Satisfactory
4.10	4.34	0.24	Satisfactory
5,92	5.94	0.02	Satisfactory
7.81	8.07	0.26	Satisfactory

Tolerance limit of dissolved oxygen should be less than ±0.50 (mg/L)

(4) Conductivity at 25°C

Conc. of KCl (M)	Expected Reading (µS/cm)	Displayed Reading (μS/cm)	Tolerance (%)	Results
0.001	146.9	140.0	-4.70	Satisfactory
0.01	1412	1394	-1.27	Satisfactory
0.1	12890	12780	-0.85	Satisfactory
0.5	58670	57927	-1.27	Satisfactory
1.0	111900	110880	-0.91	Satisfactory

Tolerance limit of conductivity should be less than ±10.0 (%)

(5) Salinity

Expected Reading (g/L)	Displayed Reading (g/L)	Tolerance (%)	Results
10	9.90	-1.00	Satisfactory
20	19.88	-0.60	Satisfactory
30	29.89	-0.37	Satisfactory

Tolerance limit of salinity should be less than ±10.0 (%)

(6) Turbidity

Expected Reading (NTU)	Displayed Reading ^(f) (NTU)	Tolerance ^(g) (%)	Results
0	0.20		Satisfactory
10	9.98	-0.2	Satisfactory
20	19.88	-0.6	Satisfactory
100	100.20	0.2	Satisfactory
800	798.82	-0.1	Satisfactory

Tolerance limit of turbidity should be less than ± 10.0 (%)

~ END OF REPORT ~

Remark(s): -

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The "Tolerance Limit" mentioned is the acceptance criteria applicable for similar equipment used by Quality Pro Test-Consult Ltd. or quoted form relevant international standards.



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PART A - CUSTOMER INFORMATION

Enovative Environmental Service Ltd. Flat 2207, Yu Fun House, Yu Chui Court, Shatin New Territories, Hong Kong Attn: Mr. Thomas WONG

PART B - DESCRIPTION

Name of Equipment

YSI 6920V2 (Multi-Parameters)

Manufacturer

YSI (a xylem brand)

Serial Number

0001C6A7

Date of Received

Oct 28, 2019

Date of Calibration

Oct 28, 2019

Date of Next Calibration(a)

Jan 27, 2020

PART C – REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

Parameter

Reference Method

pH at 25°C

APHA 21e 4500-H+ B

Dissolved Oxygen Conductivity at 25°C APHA 21e 4500-O G APHA 21e 2510 B

Salinity

APHA 21e 2520 B

Turbidity

APHA 21e 2130 B

Temperature

Section 6 of international Accreditation New Zealand Technical

Guide no. 3 Second edition March 2008: Working Thermometer Calibration Procedure.

PART D - CALIBRATION RESULTS(b,c)

(1) pH at 25°C

Target (pH unit)	Displayed Reading(d) (pH Unit)	Tolerance ^(e) (pH Unit)	Results
4.00	4.07	0.07	Satisfactory
7.42	7.49	0.07	Satisfactory
10.01	10.05	0.04	Satisfactory

Tolerance of pH should be less than ±0.20 (pH unit)

(2) Temperature

Reading of Ref. thermometer	Displayed Reading (°C)	Tolerance (°C)	Results
15.0	15.1	0.1	Satisfactory
25.0	25.0	0.0	Satisfactory
35.0	35.0	0.0	Satisfactory

Tolerance limit of temperature should be less than ±2.0 (°C)

~ CONTINUED ON NEXT PAGE ~

<u>Remark(s): -</u>

The "Date of Next Calibration" is recommended according to best practice principals as practiced by QPT or quoted form relevant international standards.

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The performance of the equipment stated in this report is checked with independent reference material and results compared against a calibrated secondary source.

"Displayed Reading" denotes the figure shown on item under calibration/ checking regardless of equipment precision or significant figures.

The "Tolerance Limit" mentioned is referenced to YSI product specifications.



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PART D - CALIBRATION RESULTS (Cont'd)

(3) Dissolved Oxygen

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)	Results
1.04	0.90	-0.14	Satisfactory
4.10	4.40	0.3	Satisfactory
5.92	6.00	0.08	Satisfactory
7.81	8.10	0.29	Satisfactory

Tolerance limit of dissolved oxygen should be less than ±0.50 (mg/L)

(4) Conductivity at 25°C

Conc. of KCl (M)	Expected Reading (µS/cm)	Displayed Reading (μS/cm)	Tolerance (%)	Results
0.001	146.9	156	6.19	Satisfactory
0.01	1412	1384	-1.98	Satisfactory
0.1	12890	12810	-0.62	Satisfactory
0.5	58670	57991	-1.16	Satisfactory
1.0	111900	110844	-0.94	Satisfactory

Tolerance limit of conductivity should be less than ± 10.0 (%)

(5) Salinity

Expected Reading (g/L)	Displayed Reading (g/L)	Tolerance (%)	Results
10	10.08	0.80	Satisfactory
20	20.07	0.35	Satisfactory
30	30.1	0.33	Satisfactory

Tolerance limit of salinity should be less than ± 10.0 (%)

(6) Turbidity

Expected Reading (NTU)	Displayed Reading ^(f) (NTU)	Tolerance ^(g) (%)	Results
0	0.50	. mi 400	Satisfactory
10	10.02	0.2	Satisfactory
20	20.47	2.3	Satisfactory
100	100.16	0.2	Satisfactory
800	798.93	-0.1	Satisfactory

Tolerance limit of turbidity should be less than ± 10.0 (%)

Remark(s): -

relevant international standards.

[~] END OF REPORT ~

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(B) The "Tolerance Limit" mentioned is the acceptance criteria applicable for similar equipment used by Quality Pro Test-Consult Ltd. or quoted form



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PART A - CUSTOMER INFORMATION

Enovative Environmental Service Ltd. Flat 2207, Yu Fun House, Yu Chui Court, Shatin New Territories, Hong Kong Attn: Mr. Thomas WONG

PART B - DESCRIPTION

Name of Equipment

YSI ProDSS (Multi-Parameters)

Manufacturer

YSI (a xylem brand)

Serial Number

17H105557

Date of Received

Sep 27, 2019

Date of Calibration

Sep 27, 2019

Date of Next Calibration(a)

Dec 26, 2019

PART C - REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

Parameter

Reference Method

pH at 25°C

APHA 21e 4500-H⁺ B APHA 21e 4500-O G

Dissolved Oxygen Conductivity at 25°C

APHA 21e 2510 B

Salinity

APHA 21e 2520 B

Turbidity

APHA 21e 2130 B

Temperature

Section 6 of international Accreditation New Zealand Technical

Guide no. 3 Second edition March 2008: Working Thermometer Calibration Procedure.

PART D - CALIBRATION RESULTS(b,c)

(1) pH at 25°C

Target (pH unit)	Displayed Reading(d) (pH Unit)	Tolerance ^(e) (pH Unit)	Results
4.00	4.05	0.05	Satisfactory
7.42	7.41	-0.01	Satisfactory
10.01	10.11	0.10	Satisfactory

Tolerance of pH should be less than ± 0.20 (pH unit)

(2) Temperature

Reading of Ref. thermometer (°C)	Displayed Reading (°C)	Tolerance (°C)	Results
10.0	10.0	0.0	Satisfactory
22.0	22.1	0.1	Satisfactory
42.0	42.1	0.1	Satisfactory

Tolerance limit of temperature should be less than ±2.0 (°C)

 \sim CONTINUED ON NEXT PAGE \sim

Remark(s): -

The "Date of Next Calibration" is recommended according to best practice principals as practiced by QPT or quoted form relevant international standards.

(b) The results relate only to the calibrated equipment as received

The performance of the equipment stated in this report is checked with independent reference material and results compared against a calibrated secondary source.

(d) "Displayed Reading" denotes the figure shown on item under calibration/checking regardless of equipment precision or significant figures.

(e) The "Tolerance Limit" mentioned is referenced to YSI product specifications.



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REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

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Date of Issue

02 October 2019

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PART D - CALIBRATION RESULTS (Cont'd)

(3) Dissolved Oxygen

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)	Results
0.78	0.72	-0.06	Satisfactory
3.69	4.01	0.32	Satisfactory
5.77	5.38	-0.39	Satisfactory
7.68	7.80	0.12	Satisfactory

Tolerance limit of dissolved oxygen should be less than ±0.50 (mg/L)

(4) Conductivity at 25°C

Conc. of KCl (M)	Expected Reading (µS/cm)	Displayed Reading (μS/cm)	Tolerance (%)	Results
0.001	146.9	138.2	-5.92	Satisfactory
0.01	1412	1394	-1.27	Satisfactory
0.1	12890	12855	-0.27	Satisfactory
0.5	58670	57582	-1.85	Satisfactory
1.0	111900	109780	-1.89	Satisfactory

Tolerance limit of conductivity should be less than ± 10.0 (%)

(5) Salinity

Expected Reading (g/L)	Displayed Reading (g/L)	Tolerance (%)	Results
10	10.08	0.80	Satisfactory
20	20.41	2.05	Satisfactory
30	30.52	1.73	Satisfactory

Tolerance limit of salinity should be less than ± 10.0 (%)

(6) Turbidity

Expected Reading (NTU)	Displayed Reading ^(f) (NTU)	Tolerance ^(g) (%)	Results
0	0.10		Satisfactory
10	9.94	-0.6	Satisfactory
20	19.86	-0.7	Satisfactory
100	97.43	-2.6	Satisfactory
800	779.37	-2.6	Satisfactory

Tolerance limit of turbidity should be less than ± 10.0 (%)

Remark(s): -

[~] END OF REPORT ~

 [&]quot;Displayed Reading" presents the figures shown on item under calibration/ checking regardless of equipment precision or significant figures.
 The "Tolerance Limit" mentioned is the acceptance criteria applicable for similar equipment used by Quality Pro Test-Consult Ltd. or quoted form relevant international standards.

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 - November 2019

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

All quality monitoring static	ons: ASR1, ASR5, ASR6, A	SK 10, AQIVIS I				
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
· ·		· ·			01-Nov	02-Nov
					1-hour TSP - 3 times	
					24-hour TSP - 1 time	
					Impact AQM	
03-Nov		05-Nov	06-Nov		08-Nov	09-Nov
	1-hour TSP - 3 times			1-hour TSP - 3 times		
	24-hour TSP - 1 time			24-hour TSP - 1 time		
	Impact AQM			Impact AQM		
10-Nov	11-Nov	12-Nov	13-Nov	14-Nov	15-Nov	
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
1			1			
Impact AQM	40 Nove		Impact AQM	O4 Nove		Impact AQM
17-Nov	18-Nov	19-Nov 1-hour TSP - 3 times	20-Nov	21-Nov	22-Nov 1-hour TSP - 3 times	23-Nov
		24-hour TSP - 3 times				
		24-nour 1SP - 1 time			24-hour TSP - 1 time	
		Impact AQM			Impact AQM	
24-Nov	25-Nov	26-Nov	27-Nov		29-Nov	30-Nov
21100	1-hour TSP - 3 times	201101	27 1107	1-hour TSP - 3 times	201101	30 1101
	24-hour TSP - 1 time			24-hour TSP - 1 time		
	Impact AQM			Impact AQM		

HY/2012/08 - Tuen Mun - Chek Lap Kok Link Northern Connection Sub-sea Tunnel Section Tentative Air Quality Impact Monitoring Schedule - December 2019

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

just y	Jila. AOINT, AONO, AONO, A	, ,				
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
01-Dec		03-Dec				
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
08-Dec	09-Dec		11-Dec	12-Dec		14-Dec
		1-hour TSP - 3 times 24-hour TSP - 1 time			1-hour TSP - 3 times 24-hour TSP - 1 time	
		Impact AQM			Impact AQM	
15-Dec	16-Dec		18-Dec			21-Dec
	1-hour TSP - 3 times 24-hour TSP - 1 time Impact AQM			1-hour TSP - 3 times 24-hour TSP - 1 time Impact AQM		
22-Dec		24-Dec		Public Holiday 26-Dec	27-Dec	28-Dec
1-hour TSP - 3 times 24-hour TSP - 1 time	23 000		1-hour TSP - 3 times 24-hour TSP - 1 time	Tubile Holiday 20 Dec	21 500	1-hour TSP - 3 times 24-hour TSP - 1 time
Impact AQM			Impact AQM			Impact AQM
29-Dec	30-Dec	31-Dec				
		1-hour TSP - 3 times 24-hour TSP - 1 time				
		Impact AQM				

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

Tuen Mun – Chek Lap Kok Link – Northern Connection Sub-sea Tunnel Section Impact Marine Water Quality Monitoring (WQM) Schedule (November 2019)

Sunday	Monday	Tuesdav	Wednesday	Thursday	Friday	Saturday
					1-Nov	
					ebb tide 14:13 - 17:43 flood tide 8:50 - 12:20	
3-Nov	4-Nov	5-Nov	6-Nov	7-Nov	8-Nov	9-Nov
	ebb tide 3:58 - 7:28 flood tide 16:28 - 19:13		ebb tide 7:13 - 9:53 flood tide 14:37 - 18:07		ebb tide 8:32 - 12:02 flood tide 15:26 - 18:56	
10-Nov	11-Nov	12-Nov	13-Nov	14-Nov	15-Nov	16-Nov
	ebb tide 10:24 - 13:54 flood tide 16:23 - 19:53		ebb tide 11:34 - 15:04 flood tide 17:08 - 19:58		ebb tide 12:52 - 16:22 flood tide 7:58 - 10:57	
17-Nov	18-Nov	19-Nov	20-Nov	21-Nov	22-Nov	23-Nov
	ebb tide 2:29 - 5:59 flood tide 10:22 - 13:52		ebb tide 4:26 - 7:56 flood tide 12:58 - 16:28		ebb tide 7:19 - 10:49 flood tide 14:21 - 17:51	
24-Nov	25-Nov	26-Nov	27-Nov	28-Nov	29-Nov	30-Nov
	ebb tide 10:12 - 13:42 flood tide 15:58 - 18:55		ebb tide 11:48 - 15:18 flood tide 6:55 - 9:43		ebb tide 13:10 - 16:40 flood tide 7:52 - 11:22	

HY/2012/08 - Tuen Mun - Chek Lap Kok Link - Northern Landfall Impact Marine Water Quality Monitoring (WQM) Schedule (December 2019)

O da			Wednesday			0-1
Sunday 1-Dec		Tuesdav 3-Dec		Thursday 5-Dec		Saturdav 7-Dec
. 500	ebb tide 2:35 - 6:05 flood tide 14:54 - 17:23		ebb tide 5:23 - 7:36 flood tide 12:59 - 16:29		ebb tide 6:16 - 9:46 flood tide 13:57 - 17:27	, 533
8-Dec	9-Dec	10-Dec	11-Dec	12-Dec	13-Dec	14-Dec
	ebb tide 9:09 - 12:39 flood tide 15:09 - 18:39		ebb tide 10:33 - 14:03 flood tide 16:01 - 19:15		ebb tide 11:57 - 15:27 flood tide 7:15 - 10:11	
15-Dec	16-Dec	17-Dec	18-Dec	19-Dec	20-Dec	21-Dec
.0 200	ebb tide 14:15 - 17:45 flood tide 9:07 - 12:37		ebb tide 16:20 - 18:35 flood tide 10:59 - 14:29		ebb tide 6:35 - 8:51 flood tide 12:50 - 16:20	
22-Dec	23-Dec	24-Dec	Public Holiday 25-Dec	Public Holiday 26-Dec	27-Dec	28-Dec
	ebb tide 9:08 - 12:38 flood tide 14:48 - 18:18		ebb tide 10:53 - 14:23 flood tide 15:59 - 19:29		ebb tide 12:13 - 15:43 flood tide 7:29 - 10:30	
29-Dec	30-Dec	31-Dec				
	ebb tide 14:09 - 17:39 flood tide 9:01 - 12:31					

HY/2012/08 - Tuen Mun - Chek Lap Kok Link Northern Connection Sub-sea Tunnel Section Impact Dolphin Monitoring Survey Monitoring Schedule - November 2019

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

HY/2012/08 - Tuen Mun - Chek Lap Kok Link Northern Connection Sub-sea Tunnel Section Tentative Impact Dolphin Monitoring Survey Monitoring Schedule - December 2019

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
01-Dec	02-Dec					
08-Dec		10-Dec Impact Dolphin Monitoring		12-Dec Impact Dolphin Monitoring	13-Dec	14-Dec
15-Dec		17-Dec Impact Dolphin Monitoring	18-Dec	19-Dec	20-Dec	21-Dec
22-Dec	23-Dec	24-Dec	Public holiday 25-Dec	Public holiday 26-Dec	27-Dec	28-Dec
29-Dec	30-Dec	31-Dec				

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

Appendix G

Impact Air Quality Monitoring Results

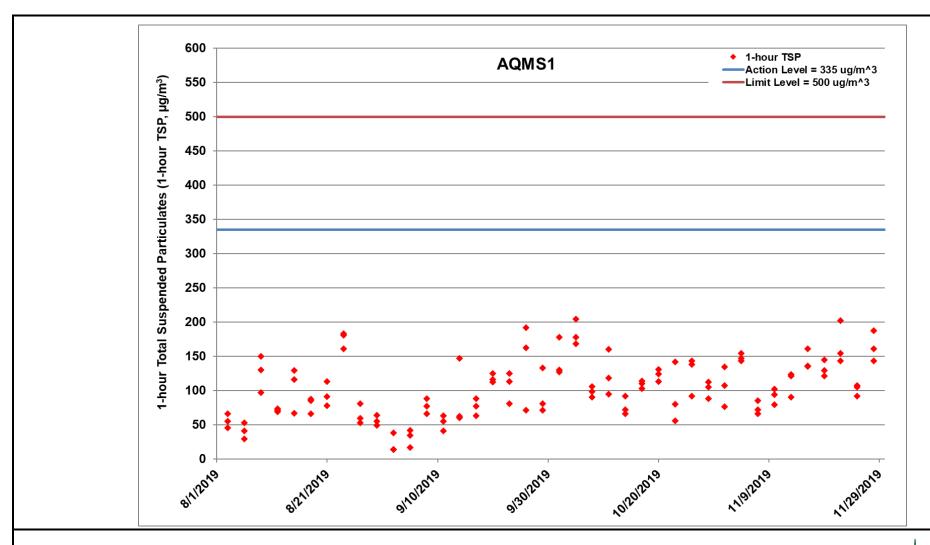


Figure G.1 Impact Monitoring – 1-hour Total Suspended Particulates (μg/m³) at AQMS1 between 1 August 2019 and 30 November 2019 during impact monitoring period. The weather conditions during the monitoring period varied from sunny to cloudy. Major land-based construction activities included: Road & Drainage Works (1/8/2019 – 30/11/2019)



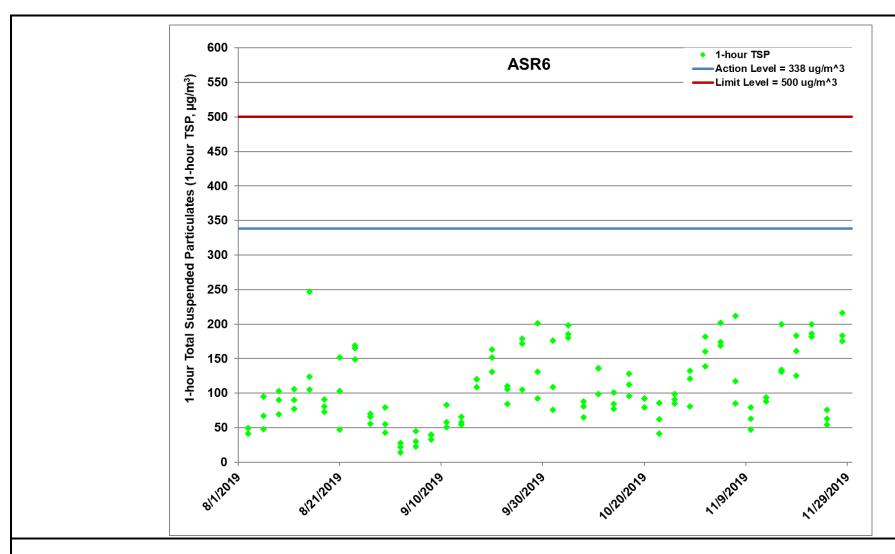


Figure G.2 Impact Monitoring – 1-hour Total Suspended Particulates (μg/m³) at ASR6 between 1 August 2019 and 30 November 2019 during impact monitoring period. The weather conditions during the monitoring period varied from sunny to cloudy. Major landbased construction activities included: Road & Drainage Works (1/8/2019 – 30/11/2019)



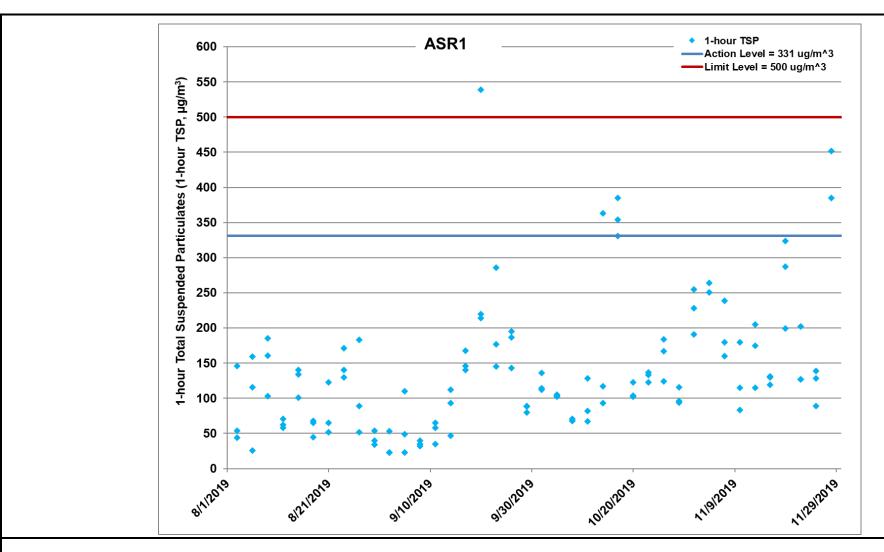


Figure G.3 Impact Monitoring – 1-hour Total Suspended Particulates (μg/m³) at ASR1 between 1 August 2019 and 30 November 2019 during impact monitoring period. The weather conditions during the monitoring period varied from sunny to cloudy. Major land-based construction activities included: Road & Drainage Works (1/8/2019 – 30/11/2019)



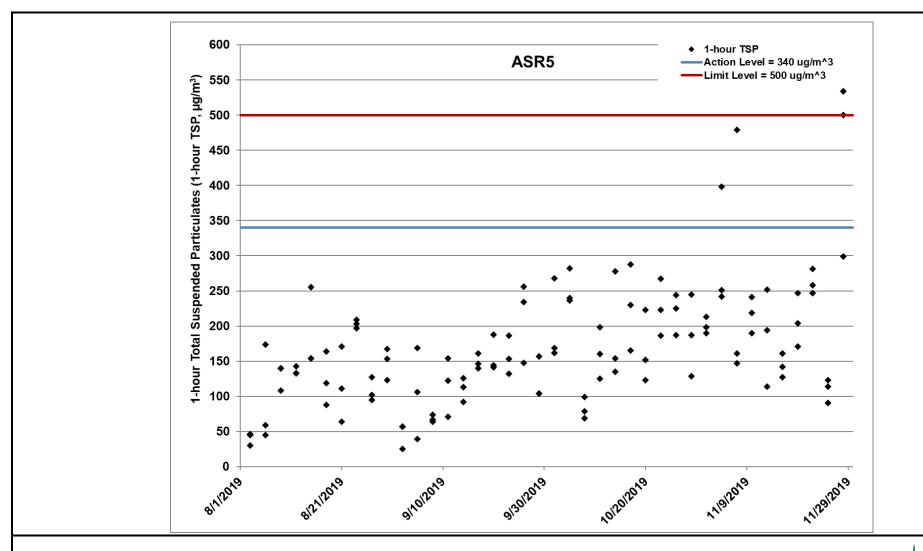


Figure G.4 Impact Monitoring – 1-hour Total Suspended Particulates (μg/m³) at ASR5 between 1 August 2019 and 30 November 2019 during impact monitoring period. The weather conditions during the monitoring period varied from sunny to cloudy. Major land-based construction activities included: Road & Drainage Works (1/8/2019 – 30/11/2019)



Ref: 0212330_Impact AQM graphs_November 2019_REV a.xlsx

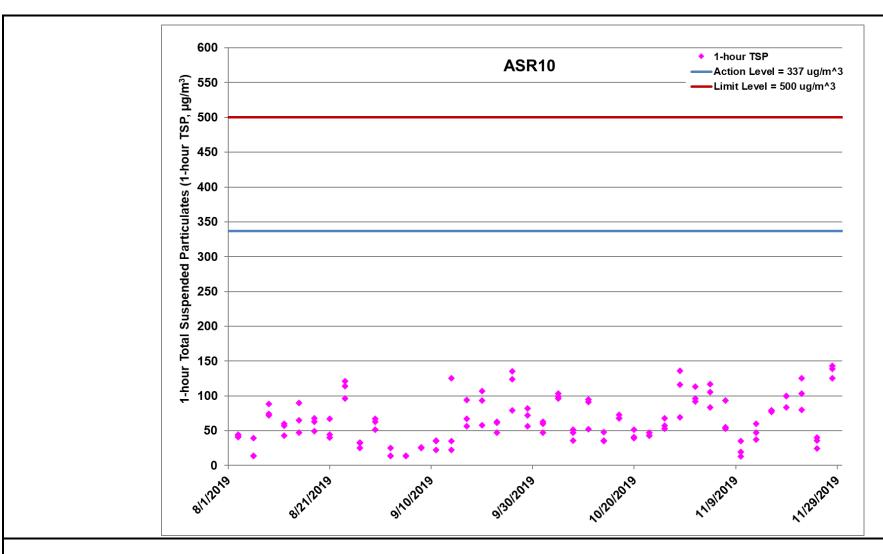


Figure G.5 Impact Monitoring – 1-hour Total Suspended Particulates (μg/m³) at ASR10 between 1 August 2019 and 30 November 2019 during impact monitoring period. The weather conditions during the monitoring period varied from sunny to cloudy. Major land-based construction activities included: Road & Drainage Works (1/8/2019 – 30/11/2019)



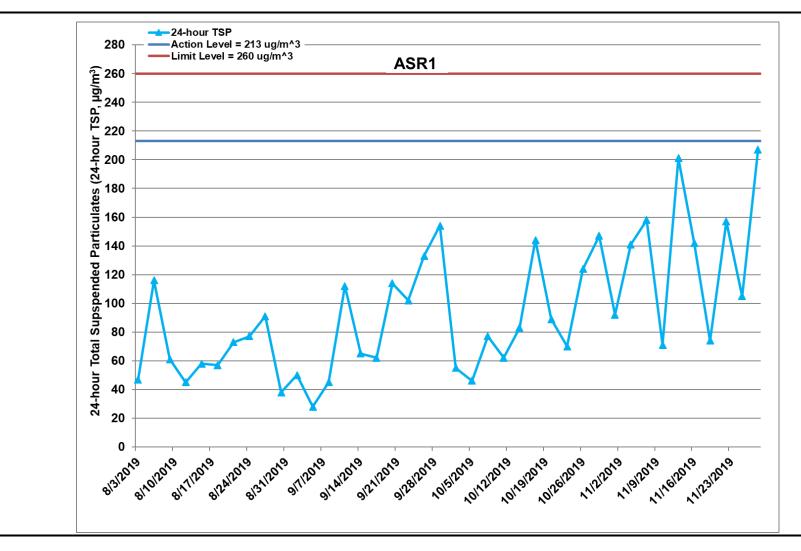


Figure G.6 Impact Monitoring – 24-hour Total Suspended Particulates (μ g/m³) at ASR1 between 1 August 2019 and 30 November 2019 during impact monitoring period. The weather conditions during the monitoring period varied from sunny to cloudy. Major land-based construction activities included: Road & Drainage Works (1/8/2019 – 30/11/2019)



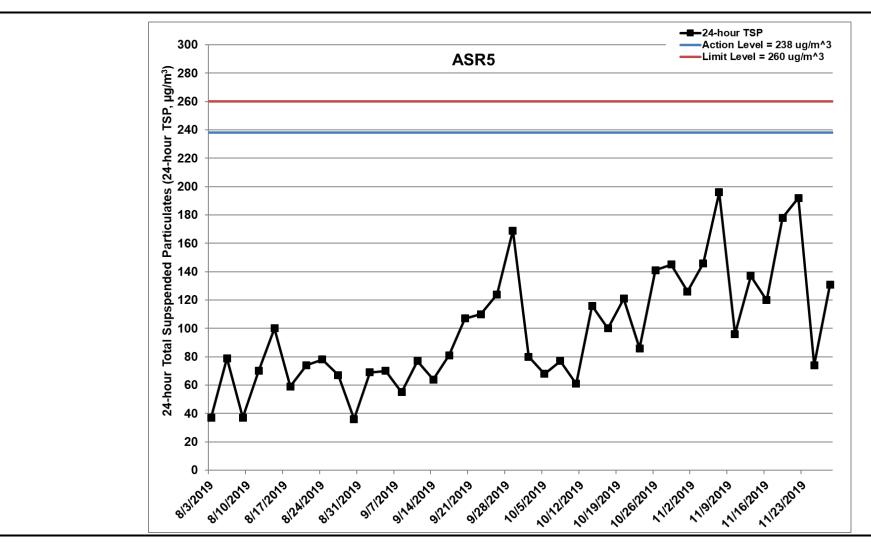


Figure G.7 Impact Monitoring – 24-hour Total Suspended Particulates (μg/m³) at ASR5 between 1 August 2019 and 30 November 2019 during impact monitoring period. The weather conditions during the monitoring period varied from sunny to cloudy. Major land-based construction activities included: Road & Drainage Works (1/8/2019 – 30/11/2019)



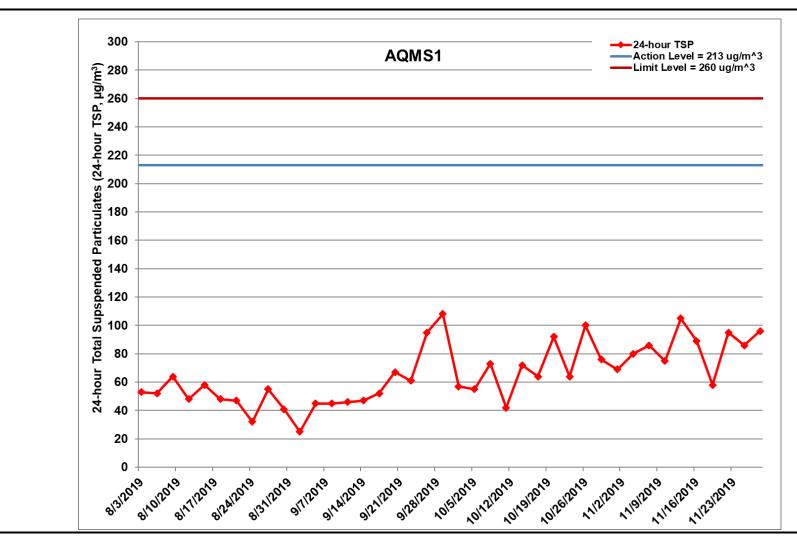


Figure G.8 Impact Monitoring – 24-hour Total Suspended Particulates (μg/m³) at AQMS1 between 1 August 2019 and 30 November 2019 during impact monitoring period. The weather conditions during the monitoring period varied from sunny to cloudy. Major land-based construction activities included: Road & Drainage Works (1/8/2019 – 30/11/2019)



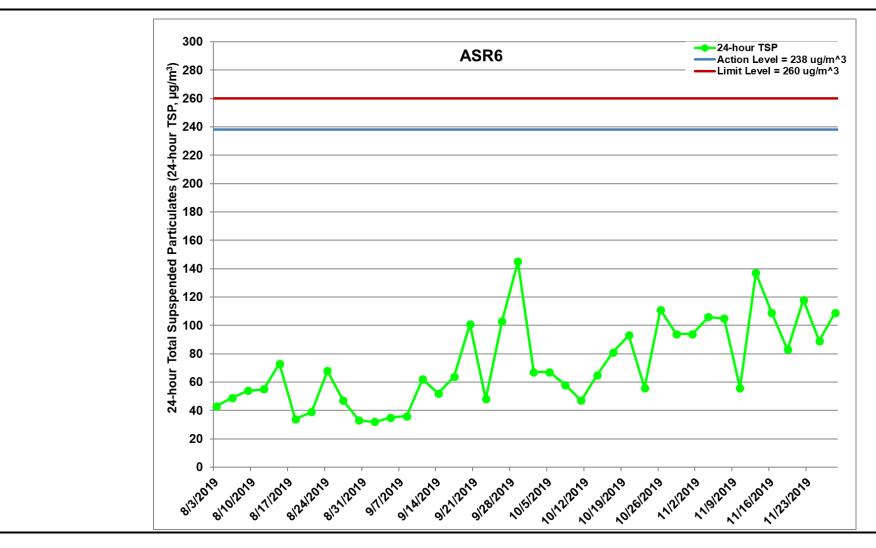


Figure G.9 Impact Monitoring – 24-hour Total Suspended Particulates (μg/m³) at ASR6 between 1 August 2019 and 30 November 2019 during impact monitoring period. The weather conditions during the monitoring period varied from sunny to cloudy. Major land-based construction activities included: Road & Drainage Works (1/8/2019 – 30/11/2019)



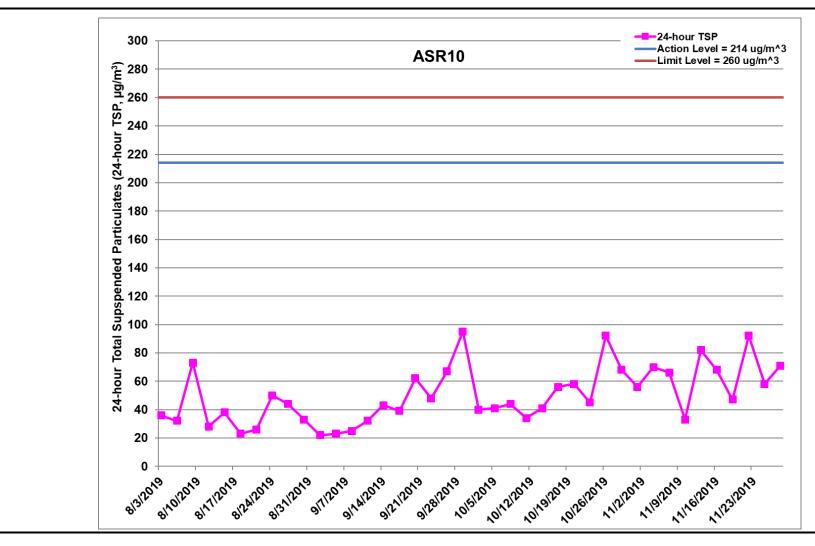


Figure G.10 Impact Monitoring – 24-hour Total Suspended Particulates (μg/m³) at ASR10 between 1 August 2019 and 30 November 2019 during impact monitoring period. The weather conditions during the monitoring period varied from sunny to cloudy. Major land-based construction activities included: Road & Drainage Works (1/8/2019 – 30/11/2019)



Project	Contract	Date	Station	Weather	Start time	Parameters	Results	units
TMCLKL	HY/2012/08	2019-11-01	AQMS1	Sunny	08:50	1-hour TSP	134	ug/m3
TMCLKL	HY/2012/08	2019-11-01	AQMS1	Sunny	09:52	1-hour TSP	107	ug/m3
TMCLKL	HY/2012/08	2019-11-01	AQMS1	Sunny	10:54	1-hour TSP	76	ug/m3
TMCLKL	HY/2012/08	2019-11-01	ASR1	Sunny	08:37	1-hour TSP	255	ug/m3
TMCLKL	HY/2012/08	2019-11-01	ASR1	Sunny	09:39	1-hour TSP	191	ug/m3
TMCLKL	HY/2012/08	2019-11-01	ASR1	Sunny	10:41	1-hour TSP	228	ug/m3
TMCLKL	HY/2012/08	2019-11-01	ASR10	Sunny	08:00	1-hour TSP	92	ug/m3
TMCLKL	HY/2012/08	2019-11-01	ASR10	Sunny	09:02	1-hour TSP	113	ug/m3
TMCLKL	HY/2012/08	2019-11-01	ASR10	Sunny	10:04	1-hour TSP	96	ug/m3
TMCLKL	HY/2012/08	2019-11-01	ASR5	Sunny	08:24	1-hour TSP	213	ug/m3
TMCLKL	HY/2012/08	2019-11-01	ASR5	Sunny	09:26	1-hour TSP	198	ug/m3
TMCLKL	HY/2012/08	2019-11-01	ASR5	Sunny	10:28	1-hour TSP	190	ug/m3
TMCLKL	HY/2012/08	2019-11-01	ASR6	Sunny	08:11	1-hour TSP	182	ug/m3
TMCLKL	HY/2012/08	2019-11-01	ASR6	Sunny	09:13	1-hour TSP	160	ug/m3
TMCLKL	HY/2012/08	2019-11-01	ASR6	Sunny	10:15	1-hour TSP	139	ug/m3
TMCLKL	HY/2012/08	2019-11-04	AQMS1	Sunny	08:50	1-hour TSP	154	ug/m3
TMCLKL	HY/2012/08	2019-11-04	AQMS1	Sunny	09:52	1-hour TSP	147	ug/m3
TMCLKL	HY/2012/08	2019-11-04	AQMS1	Sunny	10:54	1-hour TSP	143	ug/m3
TMCLKL	HY/2012/08	2019-11-04	ASR1	Sunny	08:39	1-hour TSP	626	ug/m3
TMCLKL	HY/2012/08	2019-11-04	ASR1	Sunny	09:41	1-hour TSP	264	ug/m3
TMCLKL	HY/2012/08	2019-11-04	ASR1	Sunny	10:43	1-hour TSP	251	ug/m3
TMCLKL	HY/2012/08	2019-11-04	ASR10	Sunny	08:02	1-hour TSP	117	ug/m3
TMCLKL	HY/2012/08	2019-11-04	ASR10	Sunny	09:04	1-hour TSP	83	ug/m3
TMCLKL	HY/2012/08	2019-11-04	ASR10	Sunny	10:06	1-hour TSP	105	ug/m3
TMCLKL	HY/2012/08	2019-11-04	ASR5	Sunny	08:26	1-hour TSP	398	ug/m3
TMCLKL	HY/2012/08	2019-11-04	ASR5	Sunny	09:28	1-hour TSP	251	ug/m3
TMCLKL	HY/2012/08	2019-11-04	ASR5	Sunny	10:30	1-hour TSP	242	ug/m3
TMCLKL	HY/2012/08	2019-11-04	ASR6	Sunny	08:14	1-hour TSP	202	ug/m3
TMCLKL	HY/2012/08	2019-11-04	ASR6	Sunny	09:16	1-hour TSP	174	ug/m3
TMCLKL	HY/2012/08	2019-11-04	ASR6	Sunny	10:18	1-hour TSP	169	ug/m3

Project	Contract	Date	Station	Weather	Start time	Parameters	Results	units
TMCLKL	HY/2012/08	2019-11-07	AQMS1	Sunny	13:46	1-hour TSP	85	ug/m3
TMCLKL	HY/2012/08	2019-11-07	AQMS1	Sunny	14:48	1-hour TSP	66	ug/m3
TMCLKL	HY/2012/08	2019-11-07	AQMS1	Sunny	15:50	1-hour TSP	72	ug/m3
TMCLKL	HY/2012/08	2019-11-07	ASR1	Sunny	13:35	1-hour TSP	239	ug/m3
TMCLKL	HY/2012/08	2019-11-07	ASR1	Sunny	14:37	1-hour TSP	180	ug/m3
TMCLKL	HY/2012/08	2019-11-07	ASR1	Sunny	15:39	1-hour TSP	160	ug/m3
TMCLKL	HY/2012/08	2019-11-07	ASR10	Sunny	13:01	1-hour TSP	93	ug/m3
TMCLKL	HY/2012/08	2019-11-07	ASR10	Sunny	14:03	1-hour TSP	55	ug/m3
TMCLKL	HY/2012/08	2019-11-07	ASR10	Sunny	15:05	1-hour TSP	53	ug/m3
TMCLKL	HY/2012/08	2019-11-07	ASR5	Sunny	13:24	1-hour TSP	479	ug/m3
TMCLKL	HY/2012/08	2019-11-07	ASR5	Sunny	14:26	1-hour TSP	161	ug/m3
TMCLKL	HY/2012/08	2019-11-07	ASR5	Sunny	15:28	1-hour TSP	147	ug/m3
TMCLKL	HY/2012/08	2019-11-07	ASR6	Sunny	13:13	1-hour TSP	212	ug/m3
TMCLKL	HY/2012/08	2019-11-07	ASR6	Sunny	14:15	1-hour TSP	117	ug/m3
TMCLKL	HY/2012/08	2019-11-07	ASR6	Sunny	15:17	1-hour TSP	85	ug/m3
TMCLKL	HY/2012/08	2019-11-10	AQMS1	Sunny	08:52	1-hour TSP	79	ug/m3
TMCLKL	HY/2012/08	2019-11-10	AQMS1	Sunny	09:54	1-hour TSP	94	ug/m3
TMCLKL	HY/2012/08	2019-11-10	AQMS1	Sunny	10:56	1-hour TSP	102	ug/m3
TMCLKL	HY/2012/08	2019-11-10	ASR1	Sunny	08:40	1-hour TSP	180	ug/m3
TMCLKL	HY/2012/08	2019-11-10	ASR1	Sunny	09:42	1-hour TSP	115	ug/m3
TMCLKL	HY/2012/08	2019-11-10	ASR1	Sunny	10:44	1-hour TSP	83	ug/m3
TMCLKL	HY/2012/08	2019-11-10	ASR10	Sunny	08:06	1-hour TSP	35	ug/m3
TMCLKL	HY/2012/08	2019-11-10	ASR10	Sunny	09:08	1-hour TSP	19	ug/m3
TMCLKL	HY/2012/08	2019-11-10	ASR10	Sunny	10:10	1-hour TSP	13	ug/m3
TMCLKL	HY/2012/08	2019-11-10	ASR5	Sunny	08:29	1-hour TSP	241	ug/m3
TMCLKL	HY/2012/08	2019-11-10	ASR5	Sunny	09:31	1-hour TSP	190	ug/m3
TMCLKL	HY/2012/08	2019-11-10	ASR5	Sunny	10:33	1-hour TSP	219	ug/m3
TMCLKL	HY/2012/08	2019-11-10	ASR6	Sunny	08:17	1-hour TSP	79	ug/m3
TMCLKL	HY/2012/08	2019-11-10	ASR6	Sunny	09:19	1-hour TSP	63	ug/m3
TMCLKL	HY/2012/08	2019-11-10	ASR6	Sunny	10:21	1-hour TSP	47	ug/m3

Project	Contract	Date	Station	Weather	Start time	Parameters	Results	units
TMCLKL	HY/2012/08	2019-11-13	AQMS1	Sunny	09:10	1-hour TSP	90	ug/m3
TMCLKL	HY/2012/08	2019-11-13	AQMS1	Sunny	10:12	1-hour TSP	121	ug/m3
TMCLKL	HY/2012/08	2019-11-13	AQMS1	Sunny	11:14	1-hour TSP	123	ug/m3
TMCLKL	HY/2012/08	2019-11-13	ASR1	Sunny	08:57	1-hour TSP	205	ug/m3
TMCLKL	HY/2012/08	2019-11-13	ASR1	Sunny	09:59	1-hour TSP	175	ug/m3
TMCLKL	HY/2012/08	2019-11-13	ASR1	Sunny	11:01	1-hour TSP	115	ug/m3
TMCLKL	HY/2012/08	2019-11-13	ASR10	Sunny	08:21	1-hour TSP	47	ug/m3
TMCLKL	HY/2012/08	2019-11-13	ASR10	Sunny	09:23	1-hour TSP	60	ug/m3
TMCLKL	HY/2012/08	2019-11-13	ASR10	Sunny	10:25	1-hour TSP	37	ug/m3
TMCLKL	HY/2012/08	2019-11-13	ASR5	Sunny	08:45	1-hour TSP	252	ug/m3
TMCLKL	HY/2012/08	2019-11-13	ASR5	Sunny	09:47	1-hour TSP	194	ug/m3
TMCLKL	HY/2012/08	2019-11-13	ASR5	Sunny	10:49	1-hour TSP	114	ug/m3
TMCLKL	HY/2012/08	2019-11-13	ASR6	Sunny	08:33	1-hour TSP	94	ug/m3
TMCLKL	HY/2012/08	2019-11-13	ASR6	Sunny	09:35	1-hour TSP	88	ug/m3
TMCLKL	HY/2012/08	2019-11-13	ASR6	Sunny	10:37	1-hour TSP	94	ug/m3
TMCLKL	HY/2012/08	2019-11-16	AQMS1	Sunny	08:50	1-hour TSP	136	ug/m3
TMCLKL	HY/2012/08	2019-11-16	AQMS1	Sunny	09:52	1-hour TSP	135	ug/m3
TMCLKL	HY/2012/08	2019-11-16	AQMS1	Sunny	10:54	1-hour TSP	161	ug/m3
TMCLKL	HY/2012/08	2019-11-16	ASR1	Sunny	08:37	1-hour TSP	119	ug/m3
TMCLKL	HY/2012/08	2019-11-16	ASR1	Sunny	09:39	1-hour TSP	131	ug/m3
TMCLKL	HY/2012/08	2019-11-16	ASR1	Sunny	10:41	1-hour TSP	130	ug/m3
TMCLKL	HY/2012/08	2019-11-16	ASR10	Sunny	08:04	1-hour TSP	79	ug/m3
TMCLKL	HY/2012/08	2019-11-16	ASR10	Sunny	09:06	1-hour TSP	77	ug/m3
TMCLKL	HY/2012/08	2019-11-16	ASR10	Sunny	10:08	1-hour TSP	79	ug/m3
TMCLKL	HY/2012/08	2019-11-16	ASR5	Sunny	08:25	1-hour TSP	161	ug/m3
TMCLKL	HY/2012/08	2019-11-16	ASR5	Sunny	09:27	1-hour TSP	127	ug/m3
TMCLKL	HY/2012/08	2019-11-16	ASR5	Sunny	10:29	1-hour TSP	142	ug/m3
TMCLKL	HY/2012/08	2019-11-16	ASR6	Sunny	08:15	1-hour TSP	200	ug/m3
TMCLKL	HY/2012/08	2019-11-16	ASR6	Sunny	09:17	1-hour TSP	134	ug/m3
TMCLKL	HY/2012/08	2019-11-16	ASR6	Sunny	10:19	1-hour TSP	131	ug/m3

Project	Contract	Date	Station	Weather	Start time	Parameters	Results	units
TMCLKL	HY/2012/08	2019-11-19	AQMS1	Sunny	08:58	1-hour TSP	129	ug/m3
TMCLKL	HY/2012/08	2019-11-19	AQMS1	Sunny	10:00	1-hour TSP	121	ug/m3
TMCLKL	HY/2012/08	2019-11-19	AQMS1	Sunny	11:02	1-hour TSP	145	ug/m3
TMCLKL	HY/2012/08	2019-11-19	ASR1	Sunny	08:47	1-hour TSP	287	ug/m3
TMCLKL	HY/2012/08	2019-11-19	ASR1	Sunny	09:49	1-hour TSP	324	ug/m3
TMCLKL	HY/2012/08	2019-11-19	ASR1	Sunny	10:51	1-hour TSP	199	ug/m3
TMCLKL	HY/2012/08	2019-11-19	ASR10	Sunny	08:10	1-hour TSP	100	ug/m3
TMCLKL	HY/2012/08	2019-11-19	ASR10	Sunny	09:12	1-hour TSP	83	ug/m3
TMCLKL	HY/2012/08	2019-11-19	ASR10	Sunny	10:14	1-hour TSP	100	ug/m3
TMCLKL	HY/2012/08	2019-11-19	ASR5	Sunny	08:35	1-hour TSP	247	ug/m3
TMCLKL	HY/2012/08	2019-11-19	ASR5	Sunny	09:37	1-hour TSP	171	ug/m3
TMCLKL	HY/2012/08	2019-11-19	ASR5	Sunny	10:39	1-hour TSP	204	ug/m3
TMCLKL	HY/2012/08	2019-11-19	ASR6	Sunny	08:23	1-hour TSP	183	ug/m3
TMCLKL	HY/2012/08	2019-11-19	ASR6	Sunny	09:25	1-hour TSP	125	ug/m3
TMCLKL	HY/2012/08	2019-11-19	ASR6	Sunny	10:27	1-hour TSP	161	ug/m3
TMCLKL	HY/2012/08	2019-11-22	AQMS1	Sunny	08:54	1-hour TSP	143	ug/m3
TMCLKL	HY/2012/08	2019-11-22	AQMS1	Sunny	09:56	1-hour TSP	154	ug/m3
TMCLKL	HY/2012/08	2019-11-22	AQMS1	Sunny	10:58	1-hour TSP	202	ug/m3
TMCLKL	HY/2012/08	2019-11-22	ASR1	Sunny	08:42	1-hour TSP	127	ug/m3
TMCLKL	HY/2012/08	2019-11-22	ASR1	Sunny	09:44	1-hour TSP	202	ug/m3
TMCLKL	HY/2012/08	2019-11-22	ASR1	Sunny	10:46	1-hour TSP	127	ug/m3
TMCLKL	HY/2012/08	2019-11-22	ASR10	Sunny	08:07	1-hour TSP	103	ug/m3
TMCLKL	HY/2012/08	2019-11-22	ASR10	Sunny	09:09	1-hour TSP	80	ug/m3
TMCLKL	HY/2012/08	2019-11-22	ASR10	Sunny	10:11	1-hour TSP	125	ug/m3
TMCLKL	HY/2012/08	2019-11-22	ASR5	Sunny	08:30	1-hour TSP	258	ug/m3
TMCLKL	HY/2012/08	2019-11-22	ASR5	Sunny	09:32	1-hour TSP	247	ug/m3
TMCLKL	HY/2012/08	2019-11-22	ASR5	Sunny	10:34	1-hour TSP	281	ug/m3
TMCLKL	HY/2012/08	2019-11-22	ASR6	Sunny	08:18	1-hour TSP	200	ug/m3
TMCLKL	HY/2012/08	2019-11-22	ASR6	Sunny	09:20	1-hour TSP	182	ug/m3
TMCLKL	HY/2012/08	2019-11-22	ASR6	Sunny	10:22	1-hour TSP	186	ug/m3

Project	Contract	Date	Station	Weather	Start time	Parameters	Results	units
TMCLKL	HY/2012/08	2019-11-25	AQMS1	Sunny	09:56	1-hour TSP	92	ug/m3
TMCLKL	HY/2012/08	2019-11-25	AQMS1	Sunny	09:58	1-hour TSP	105	ug/m3
TMCLKL	HY/2012/08	2019-11-25	AQMS1	Sunny	11:00	1-hour TSP	107	ug/m3
TMCLKL	HY/2012/08	2019-11-25	ASR1	Sunny	08:45	1-hour TSP	128	ug/m3
TMCLKL	HY/2012/08	2019-11-25	ASR1	Sunny	09:47	1-hour TSP	139	ug/m3
TMCLKL	HY/2012/08	2019-11-25	ASR1	Sunny	10:49	1-hour TSP	89	ug/m3
TMCLKL	HY/2012/08	2019-11-25	ASR10	Sunny	08:10	1-hour TSP	24	ug/m3
TMCLKL	HY/2012/08	2019-11-25	ASR10	Sunny	09:12	1-hour TSP	36	ug/m3
TMCLKL	HY/2012/08	2019-11-25	ASR10	Sunny	10:14	1-hour TSP	40	ug/m3
TMCLKL	HY/2012/08	2019-11-25	ASR5	Sunny	08:33	1-hour TSP	123	ug/m3
TMCLKL	HY/2012/08	2019-11-25	ASR5	Sunny	09:35	1-hour TSP	114	ug/m3
TMCLKL	HY/2012/08	2019-11-25	ASR5	Sunny	10:37	1-hour TSP	91	ug/m3
TMCLKL	HY/2012/08	2019-11-25	ASR6	Sunny	08:21	1-hour TSP	54	ug/m3
TMCLKL	HY/2012/08	2019-11-25	ASR6	Sunny	09:23	1-hour TSP	63	ug/m3
TMCLKL	HY/2012/08	2019-11-25	ASR6	Sunny	10:25	1-hour TSP	76	ug/m3
TMCLKL	HY/2012/08	2019-11-28	AQMS1	Sunny	08:49	1-hour TSP	187	ug/m3
TMCLKL	HY/2012/08	2019-11-28	AQMS1	Sunny	09:51	1-hour TSP	161	ug/m3
TMCLKL	HY/2012/08	2019-11-28	AQMS1	Sunny	10:53	1-hour TSP	143	ug/m3
TMCLKL	HY/2012/08	2019-11-28	ASR1	Sunny	08:38	1-hour TSP	577	ug/m3
TMCLKL	HY/2012/08	2019-11-28	ASR1	Sunny	09:40	1-hour TSP	452	ug/m3
TMCLKL	HY/2012/08	2019-11-28	ASR1	Sunny	10:42	1-hour TSP	385	ug/m3
TMCLKL	HY/2012/08	2019-11-28	ASR10	Sunny	08:00	1-hour TSP	125	ug/m3
TMCLKL	HY/2012/08	2019-11-28	ASR10	Sunny	09:02	1-hour TSP	139	ug/m3
TMCLKL	HY/2012/08	2019-11-28	ASR10	Sunny	10:04	1-hour TSP	143	ug/m3
TMCLKL	HY/2012/08	2019-11-28	ASR5	Sunny	08:02	1-hour TSP	534	ug/m3
TMCLKL	HY/2012/08	2019-11-28	ASR5	Sunny	09:27	1-hour TSP	500	ug/m3
TMCLKL	HY/2012/08	2019-11-28	ASR5	Sunny	10:29	1-hour TSP	299	ug/m3
TMCLKL	HY/2012/08	2019-11-28	ASR6	Sunny	08:13	1-hour TSP	216	ug/m3
TMCLKL	HY/2012/08	2019-11-28	ASR6	Sunny	09:15	1-hour TSP	183	ug/m3
TMCLKL	HY/2012/08	2019-11-28	ASR6	Sunny	10:17	1-hour TSP	175	ug/m3

Project	Contract	Date	Station	Weather	Start time	Parameters	Results	units
TMCLKL	HY/2012/08	2019-11-01	AQMS1	Sunny	11:56	24-hour TSP	69	ug/m3
TMCLKL	HY/2012/08	2019-11-01	ASR1	Sunny	11:43	24-hour TSP	92	ug/m3
TMCLKL	HY/2012/08	2019-11-01	ASR10	Sunny	11:06	24-hour TSP	56	ug/m3
TMCLKL	HY/2012/08	2019-11-01	ASR5	Sunny	11:30	24-hour TSP	126	ug/m3
TMCLKL	HY/2012/08	2019-11-01	ASR6	Sunny	11:17	24-hour TSP	94	ug/m3
TMCLKL	HY/2012/08	2019-11-04	AQMS1	Sunny	11:56	24-hour TSP	80	ug/m3
TMCLKL	HY/2012/08	2019-11-04	ASR1	Sunny	11:45	24-hour TSP	141	ug/m3
TMCLKL	HY/2012/08	2019-11-04	ASR10	Sunny	11:08	24-hour TSP	70	ug/m3
TMCLKL	HY/2012/08	2019-11-04	ASR5	Sunny	11:32	24-hour TSP	146	ug/m3
TMCLKL	HY/2012/08	2019-11-04	ASR6	Sunny	11:20	24-hour TSP	106	ug/m3
TMCLKL	HY/2012/08	2019-11-07	AQMS1	Sunny	16:52	24-hour TSP	86	ug/m3
TMCLKL	HY/2012/08	2019-11-07	ASR1	Sunny	16:41	24-hour TSP	158	ug/m3
TMCLKL	HY/2012/08	2019-11-07	ASR10	Sunny	16:07	24-hour TSP	66	ug/m3
TMCLKL	HY/2012/08	2019-11-07	ASR5	Sunny	16:30	24-hour TSP	196	ug/m3
TMCLKL	HY/2012/08	2019-11-07	ASR6	Sunny	16:19	24-hour TSP	105	ug/m3
TMCLKL	HY/2012/08	2019-11-10	AQMS1	Sunny	11:58	24-hour TSP	75	ug/m3
TMCLKL	HY/2012/08	2019-11-10	ASR1	Sunny	11:46	24-hour TSP	71	ug/m3
TMCLKL	HY/2012/08	2019-11-10	ASR10	Sunny	11:12	24-hour TSP	33	ug/m3
TMCLKL	HY/2012/08	2019-11-10	ASR5	Sunny	11:35	24-hour TSP	96	ug/m3
TMCLKL	HY/2012/08	2019-11-10	ASR6	Sunny	11:23	24-hour TSP	56	ug/m3
TMCLKL	HY/2012/08	2019-11-13	AQMS1	Sunny	12:16	24-hour TSP	105	ug/m3
TMCLKL	HY/2012/08	2019-11-13	ASR1	Sunny	12:03	24-hour TSP	201	ug/m3
TMCLKL	HY/2012/08	2019-11-13	ASR10	Sunny	11:27	24-hour TSP	82	ug/m3
TMCLKL	HY/2012/08	2019-11-13	ASR5	Sunny	11:51	24-hour TSP	137	ug/m3
TMCLKL	HY/2012/08	2019-11-13	ASR6	Sunny	11:39	24-hour TSP	137	ug/m3
TMCLKL	HY/2012/08	2019-11-16	AQMS1	Sunny	11:56	24-hour TSP	89	ug/m3
TMCLKL	HY/2012/08	2019-11-16	ASR1	Sunny	11:43	24-hour TSP	142	ug/m3
TMCLKL	HY/2012/08	2019-11-16	ASR10	Sunny	11:10	24-hour TSP	68	ug/m3
TMCLKL	HY/2012/08	2019-11-16	ASR5	Sunny	11:31	24-hour TSP	120	ug/m3
TMCLKL	HY/2012/08	2019-11-16	ASR6	Sunny	11:21	24-hour TSP	109	ug/m3

Project	Contract	Date	Station	Weather	Start time	Parameters	Results	units
TMCLKL	HY/2012/08	2019-11-19	AQMS1	Sunny	12:04	24-hour TSP	58	ug/m3
TMCLKL	HY/2012/08	2019-11-19	ASR1	Sunny	11:53	24-hour TSP	74	ug/m3
TMCLKL	HY/2012/08	2019-11-19	ASR10	Sunny	11:16	24-hour TSP	47	ug/m3
TMCLKL	HY/2012/08	2019-11-19	ASR5	Sunny	11:41	24-hour TSP	178	ug/m3
TMCLKL	HY/2012/08	2019-11-19	ASR6	Sunny	11:29	24-hour TSP	83	ug/m3
TMCLKL	HY/2012/08	2019-11-22	AQMS1	Sunny	12:00	24-hour TSP	95	ug/m3
TMCLKL	HY/2012/08	2019-11-22	ASR1	Sunny	11:48	24-hour TSP	157	ug/m3
TMCLKL	HY/2012/08	2019-11-22	ASR10	Sunny	11:13	24-hour TSP	92	ug/m3
TMCLKL	HY/2012/08	2019-11-22	ASR5	Sunny	11:36	24-hour TSP	192	ug/m3
TMCLKL	HY/2012/08	2019-11-22	ASR6	Sunny	11:24	24-hour TSP	118	ug/m3
TMCLKL	HY/2012/08	2019-11-25	AQMS1	Sunny	12:02	24-hour TSP	86	ug/m3
TMCLKL	HY/2012/08	2019-11-25	ASR1	Sunny	11:51	24-hour TSP	105	ug/m3
TMCLKL	HY/2012/08	2019-11-25	ASR10	Sunny	11:16	24-hour TSP	58	ug/m3
TMCLKL	HY/2012/08	2019-11-25	ASR5	Sunny	11:39	24-hour TSP	74	ug/m3
TMCLKL	HY/2012/08	2019-11-25	ASR6	Sunny	11:27	24-hour TSP	89	ug/m3
TMCLKL	HY/2012/08	2019-11-28	AQMS1	Sunny	11:55	24-hour TSP	96	ug/m3
TMCLKL	HY/2012/08	2019-11-28	ASR1	Sunny	11:44	24-hour TSP	207	ug/m3
TMCLKL	HY/2012/08	2019-11-28	ASR10	Sunny	11:06	24-hour TSP	71	ug/m3
TMCLKL	HY/2012/08	2019-11-28	ASR5	Sunny	11:31	24-hour TSP	131	ug/m3
TMCLKL	HY/2012/08	2019-11-28	ASR6	Sunny	11:19	24-hour TSP	109	ug/m3

Appendix H

Meteorological Data

	Mete	orological 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)	
19/11/01	1:00	0.4	26	
19/11/01	2:00	0.9	22	
19/11/01	3:00	0.4	3	
19/11/01	4:00	0.4	358	
19/11/01	5:00	0.4	36	
19/11/01	6:00	0.4	13	
19/11/01	7:00	0.4	51	
19/11/01	8:00	0.9	25	
19/11/01	9:00	0.9	1	
19/11/01	10:00	1.3	147	
19/11/01	11:00	2.7	125	
19/11/01	12:00	2.7	129	
19/11/01	13:00	1.8	125	
19/11/01	14:00	0.9	118	
19/11/01	15:00	1.3	191	
19/11/01	16:00	0.9	213	
19/11/01	17:00	0.9	133	
19/11/01	18:00	1.8	102	
19/11/01	19:00	1.8	99	
19/11/01	20:00	1.3	56	
19/11/01	21:00	1.3	75	
19/11/01	22:00	1.3	54	
19/11/01	23:00	0.9	30	
19/11/02	0:00	1.3	32	
19/11/02	1:00	1.3	51	
19/11/02	2:00	0.9	25	
19/11/02	3:00	1.3	20	
19/11/02	4:00	0.9	14	
19/11/02	5:00	0.9	11	
19/11/02	6:00	1.3	21	
19/11/02	7:00	0.9	48	
19/11/02	8:00	1.3	64	
19/11/02	9:00	1.8	87	
19/11/02	10:00	1.8	130	
19/11/02	11:00	2.7	133	
19/11/02	12:00	2.2	132	
19/11/02	13:00	1.3	138	
		2.2		
19/11/02	14:00		205 202	
19/11/02 19/11/02	15:00 16:00	0.9	197	
19/11/02	17:00	0.9	92	
19/11/02	18:00	1.3	92	
19/11/02 19/11/02	19:00	1.3	48	
19/11/02	20:00	1.8	101	
19/11/02	21:00	1.3	18 34	
19/11/02	22:00	0.9		
19/11/02	23:00	0.4	55	
19/11/04	0:00	1.3	342	
19/11/04	1:00	1.8	17	
19/11/04	2:00	2.7	341	
19/11/04	3:00	3.1	359	
19/11/04	4:00	3.6	3	
19/11/04	5:00	3.6	4	
19/11/04	6:00	1.8	14	
19/11/04	7:00	1.3	342	
19/11/04	8:00	2.2	16	
19/11/04	9:00	2.2	14	
19/11/04	10:00	1.8	12	

	Mete	orological 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)		
19/11/04	11:00	2.2	30		
19/11/04	12:00	1.8	23		
19/11/04	13:00	1.8	16		
19/11/04	14:00	1.3	18		
19/11/04	15:00	1.3	25		
19/11/04	16:00	1.8	347		
19/11/04	17:00	1.8	332		
19/11/04	18:00	1.8	313		
19/11/04	19:00	0.9	326		
19/11/04	20:00	0.4	324		
19/11/04	21:00	0.4	320		
19/11/04	22:00	0.9	328		
19/11/04	23:00	1.8	343		
19/11/05	0:00	0.9	23		
19/11/05	1:00	0.4	98		
19/11/05	2:00	0.4	346		
19/11/05	3:00	0.9	329		
19/11/05	4:00	0.4	304		
19/11/05	5:00	0.9	19		
19/11/05	6:00	1.3	12		
19/11/05	7:00	1.8	28		
19/11/05	8:00	1.8	21		
19/11/05	9:00	2.2	20		
19/11/05	10:00	2.2	32		
19/11/05	11:00	1.8	29		
19/11/05	12:00	1.8	32		
19/11/05	13:00	1.8	26		
19/11/05	14:00	1.8	140		
19/11/05	15:00	0.9	125		
19/11/05	16:00	0.9	130		
19/11/05	17:00	1.3	132		
19/11/05	18:00	0.4	79		
19/11/05	19:00	0.9	339		
19/11/05	20:00	0.9	337		
19/11/05	21:00	0.4	314		
19/11/05	22:00	0	-		
19/11/05	23:00	0	_		
19/11/07	0:00	0			
19/11/07	1:00	0			
19/11/07	2:00	0.4	22		
19/11/07	3:00	0.9	25		
19/11/07	4:00	1.8	32		
19/11/07	5:00	1.8	21		
19/11/07	6:00	1.3	22		
19/11/07	7:00	1.8	31		
19/11/07	8:00	1.8	15		
19/11/07	9:00	1.8	4		
19/11/07	10:00	2.2	33		
19/11/07	11:00	2.2	33		
19/11/07	12:00	2.2	16		
19/11/07	13:00	1.8	16		
	14:00	2.2	304		
19/11/07					
19/11/07	15:00	2.7	316		
19/11/07	16:00	1.3	341		
19/11/07	17:00	1.8	316		
19/11/07	18:00	1.8	327		
19/11/07	19:00	0.4	318		
19/11/07	20:00	0			

	Mete	orological 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)	
19/11/07	21:00	0.4	336	
19/11/07	22:00	1.3	313	
19/11/07	23:00	1.8	357	
19/11/08	0:00	1.3	334	
19/11/08	1:00	1.8	355	
19/11/08	2:00	0.4	305	
19/11/08	3:00	1.3	34	
19/11/08	4:00	2.7	33	
19/11/08	5:00	2.2	6	
19/11/08	6:00	2.2	17	
19/11/08	7:00	3.1	12	
19/11/08	8:00	4	12	
19/11/08	9:00	3.6	25	
19/11/08	10:00	2.7	29	
19/11/08	11:00	2.7	18	
19/11/08	12:00	2.2	32	
19/11/08	13:00	1.8	14	
19/11/08	14:00	1.8	13	
19/11/08	15:00	1.8	33	
19/11/08	16:00	1.8	333	
19/11/08	17:00	2.2	344	
19/11/08	18:00	1.3	321	
19/11/08	19:00	0.4	313	
19/11/08	20:00	0.9	315	
	21:00	0.9	312	
19/11/08		0.4		
19/11/08	22:00 23:00	1.8	316	
19/11/08	-		342	
19/11/10	0:00	0		
19/11/10	1:00	0		
19/11/10	2:00	0		
19/11/10	3:00	0.4	27	
19/11/10	4:00	0.9	30	
19/11/10	5:00	0.4	29	
19/11/10	6:00	0	<u> </u>	
19/11/10	7:00	0.9	27	
19/11/10	8:00	0.9	33	
19/11/10	9:00	2.2	18	
19/11/10	10:00	1.8	14	
19/11/10	11:00	1.8	17	
19/11/10	12:00	1.8	20	
19/11/10	13:00	1.3	131	
19/11/10	14:00	0.9	258	
19/11/10	15:00	2.2	212	
19/11/10	16:00	1.3	223	
19/11/10	17:00	0.4	261	
19/11/10	18:00	0.9	305	
19/11/10	19:00	0.9	332	
19/11/10	20:00	0.4	352	
19/11/10	21:00	0.9	2	
19/11/10	22:00	0.4	47	
19/11/10	23:00	0	-	
19/11/11	0:00	0	-	
19/11/11	1:00	0.4	51	
19/11/11	2:00	0.9	32	
19/11/11	3:00	0.9	329	
19/11/11	4:00	0.9	318	
19/11/11	5:00	0.9	312	
19/11/11	6:00	0.4	332	

	Mete	corological Data for Impact Monitoring in the r	reporting period	
Date (yy-mm-dd)	Time (24hrs)	Average of Wind Speed (m/s)	Average of Wind Direction(degree)	
19/11/11	7:00	0.9	33	
19/11/11	8:00	1.3	61	
19/11/11	9:00	1.3	124	
19/11/11	10:00	0.9	79	
19/11/11	11:00	1.3	125	
19/11/11	12:00	1.3	192	
19/11/11	13:00	1.3	199	
19/11/11	14:00	2.2	128	
19/11/11	15:00	3.1	119	
19/11/11	16:00	3.1	81	
19/11/11	17:00	1.8	79	
19/11/11	18:00	1.3	55	
19/11/11	19:00	1.3	52	
19/11/11	20:00	1.3	31	
19/11/11	21:00	1.3	12	
19/11/11	22:00	1.3	12	
19/11/11	23:00	1.8	34	
19/11/13	0:00	1.3	11	
19/11/13	1:00	0.9	44	
19/11/13	2:00	0.4	43	
19/11/13	3:00	0	-	
19/11/13	4:00	0	-	
19/11/13	5:00	0.4	26	
19/11/13	6:00	0.9	14	
19/11/13	7:00	0.9	35	
19/11/13	8:00	1.8	101	
19/11/13	9:00	1.8	92	
19/11/13	10:00	1.8	106	
19/11/13	11:00	2.2	130	
19/11/13	12:00	1.8	134	
19/11/13	13:00	1.8	194	
19/11/13	14:00	0.9	274	
19/11/13	15:00	1.8	203	
19/11/13	16:00	1.3	202	
19/11/13	17:00	0.9	71	
19/11/13	18:00	0.9	68	
19/11/13	19:00	0	-	
19/11/13	20:00	0	-	
19/11/13	21:00	0	-	
19/11/13	22:00	0.9	17	
19/11/13	23:00	1.3	327	
19/11/14	0:00	1.8	311	
19/11/14	1:00	1.3	332	
19/11/14	2:00	1.8	346	
19/11/14	3:00	1.3	55	
19/11/14	4:00	2.2	26	
19/11/14	5:00	3.6	34	
19/11/14	6:00	1.8	26	
19/11/14	7:00	2.2	27	
19/11/14	8:00	2.7	18	
19/11/14	9:00	2.7	34	
19/11/14	10:00	2.2	28	
19/11/14	11:00	1.3	19	
19/11/14	12:00	1.3	138	
19/11/14	13:00	1.3	304	
19/11/14	14:00	2.2	288	
19/11/14	15:00	1.8	277	
17/11/11				

Date (yy-mm-dd) 19/11/14 19/11/14 19/11/14 19/11/14 19/11/14 19/11/14	Time (24hrs) 17:00 18:00	Average of Wind Speed (m/s) 0.9	Average of Wind Direction(degree)		
19/11/14 19/11/14 19/11/14 19/11/14		0.9	202		
19/11/14 19/11/14 19/11/14	18:00		292		
19/11/14 19/11/14		0.9	310		
19/11/14	19:00	1.3	304		
	20:00	0.9	97		
10/11/14	21:00	0.9	40		
17/11/14	22:00	0.9	86		
19/11/14	23:00	0.4	58		
19/11/16	0:00	1.3	45		
19/11/16	1:00	1.3	53		
19/11/16	2:00	0.9	52		
19/11/16	3:00	0.9	12		
19/11/16	4:00	0.9	33		
19/11/16	5:00	0.9	25		
19/11/16	6:00	0.9	19		
19/11/16	7:00	0.9	34		
19/11/16	8:00	1.3	56		
19/11/16	9:00	1.8	97		
19/11/16	10:00	1.8	91		
19/11/16	11:00	1.8	136		
19/11/16	12:00	1.8	138		
19/11/16	13:00	1.3	150		
19/11/16	14:00	2.2	194		
19/11/16	15:00	1.8	202		
19/11/16	16:00	0.9 1.3	140		
19/11/16 19/11/16	17:00 18:00	0.9	92 70		
19/11/16	19:00	1.8	79		
19/11/16	20:00	1.8	94		
19/11/16	21:00	0.9	56		
19/11/16	22:00	0.9	42		
19/11/16	23:00	1.3	24		
19/11/17	0:00	0.9	20		
19/11/17	1:00	1.3	48		
19/11/17	2:00	0.9	35		
19/11/17	3:00	0.9	38		
19/11/17	4:00	0.4	26		
19/11/17	5:00	0.4	11		
19/11/17	6:00	0.9	51		
19/11/17	7:00	0.9	23		
19/11/17	8:00	0.9	88		
19/11/17	9:00	1.3	85		
19/11/17	10:00	1.8	142		
19/11/17	11:00	1.3	138		
19/11/17	12:00	1.8	211		
19/11/17	13:00	1.3	280		
19/11/17	14:00	1.3	200		
19/11/17	15:00	1.8	205		
19/11/17	16:00	0.4	79		
19/11/17	17:00	0.9	95		
19/11/17	18:00	1.3	47		
19/11/17	19:00	0.9	14		
19/11/17	20:00	0			
19/11/17	21:00	0.9	305		
19/11/17	22:00	0.4	316		
19/11/17 19/11/20	23:00 0:00	1.8	30		
19/11/20	1:00	1.8	24		
19/11/20	2:00	1.3	4		
19/11/20	3:00	1.8	26		
19/11/20	4:00	1.8	19		
19/11/20	5:00	1.8	3		
19/11/20	6:00	1.3	27		

	Mete	orological Data for Impact Monitoring in		
Date (yy-mm-dd)	Time (24hrs)	Average of Wind Speed (m/s)	Average of Wind Direction(degree)	
19/11/20	7:00	1.3	22	
19/11/20	8:00	0.9	11	
19/11/20	9:00	1.3	25	
19/11/20	10:00	1.3	24	
19/11/20	11:00	1.3	13	
19/11/20	12:00	1.8	33	
19/11/20	13:00	1.3	14	
19/11/20	14:00	1.3	276	
19/11/20	15:00	2.2	265	
19/11/20	16:00	2.2	282	
19/11/20	17:00	0.9	160	
19/11/20	18:00	2.2	124	
19/11/20	19:00	1.8	97	
19/11/20	20:00	1.3	52	
19/11/20	21:00	0.9	38	
19/11/20	22:00	0.9	13	
19/11/20	23:00	0.4	355	
19/11/22	0:00	0.9	308	
19/11/22	1:00	0.9	310	
19/11/22	2:00	0.9	313	
19/11/22	3:00	0.9	324	
19/11/22	4:00	0.4	330	
19/11/22	5:00	0.9	4	
19/11/22	6:00	1.3	346	
19/11/22	7:00	1.3	95	
19/11/22	8:00	1.3	97	
19/11/22	9:00	1.3	17	
19/11/22	10:00	1.3	183	
	11:00	1.3	222	
19/11/22 19/11/22	12:00	1.3	250	
19/11/22	13:00	1.8	191	
19/11/22	14:00	1.8	208	
19/11/22	15:00		219	
19/11/22	16:00	0.9	199 169	
19/11/22	17:00	0.9		
19/11/22	18:00	0.9	142	
19/11/22	19:00	0.4	50	
19/11/22	20:00	0.4	37	
19/11/22	21:00	0.9	39	
19/11/22	22:00	0.9	36	
19/11/22	23:00	0.4	330	
19/11/23	0:00	0		
19/11/23	1:00	0	-	
19/11/23	2:00	0	-	
19/11/23	3:00	0		
19/11/23	4:00	0	-	
19/11/23	5:00	0	-	
19/11/23	6:00	0.4	319	
19/11/23	7:00	0.4	16	
19/11/23	8:00	0.9	23	
19/11/23	9:00	1.3	99	
19/11/23	10:00	1.3	97	
19/11/23	11:00	1.8	205	
19/11/23	12:00	1.8	258	
19/11/23	13:00	1.8	259	
19/11/23	14:00	2.2	200	
19/11/23	15:00	2.2	210	
19/11/23	16:00	1.3	94	
19/11/23	17:00	2.2	139	
19/11/23	18:00	0.9	98	
19/11/23	19:00	0.9	78	
19/11/23	20:00	1.3	86	
13/11/23				

		orological Data for Impact Monitoring in			
Date (yy-mm-dd)	Time (24hrs)	Average of Wind Speed (m/s)	Average of Wind Direction(degree)		
19/11/23	22:00	0.4	49		
19/11/23	23:00	0.4	50		
19/11/25	0:00	0	-		
19/11/25	1:00	0	-		
19/11/25	2:00	0.9	48		
19/11/25	3:00	1.3	25		
19/11/25	4:00	1.3	1		
19/11/25	5:00	1.3	57		
19/11/25	6:00	0.9	2		
19/11/25	7:00	0.9	65		
19/11/25	8:00	0.9	46		
19/11/25	9:00	1.8	102		
19/11/25	10:00	2.2	127		
19/11/25	11:00	3.6	128		
19/11/25	12:00	4	139		
19/11/25	13:00	2.7	132		
19/11/25	14:00	2.7	127		
19/11/25	15:00	3.6	145		
19/11/25	16:00	3.1	87		
19/11/25	17:00	3.1	94		
19/11/25	18:00	2.2	64		
19/11/25	19:00	1.8	39		
19/11/25	20:00	2.2	35		
19/11/25	21:00	2.2	50		
19/11/25	22:00	2.2	35		
19/11/25	23:00	2.2	49		
19/11/26	0:00	1.8	71		
19/11/26	1:00	1.3	54		
19/11/26	2:00	0.9	54		
19/11/26	3:00	1.3	31		
19/11/26	4:00	1.3	23		
19/11/26	5:00	1.8	29		
19/11/26	6:00	1.8	30		
19/11/26	7:00	1.8	18		
19/11/26	8:00	2.2	12		
19/11/26	9:00	1.3	34		
19/11/26	10:00	1.3	26		
19/11/26	11:00	1.3	12		
19/11/26	12:00	1.8	131		
19/11/26	13:00	1.8	129		
19/11/26	14:00	2.2	130		
		2.2			
19/11/26	15:00		123 87		
19/11/26	16:00	1.8			
19/11/26	17:00	2.2	117		
19/11/26	18:00	1.8	88		
19/11/26	19:00	1.8	94		
19/11/26	20:00	1.3	44		
19/11/26	21:00	1.3	54		
19/11/26	22:00	1.3	42		
19/11/26	23:00	1.3	79		
19/11/28	0:00	0	246		
19/11/28	1:00	0.4	346		
19/11/28	2:00	1.8	2		
19/11/28	3:00	2.2	331		
19/11/28	4:00	0.9	20		
19/11/28	5:00	1.3	341		
19/11/28	6:00	1.3	339		
19/11/28	7:00	1.3	357		
19/11/28	8:00	2.2	24		
19/11/28	9:00	2.7	14		
19/11/28	10:00	2.2	34		
19/11/28	11:00	1.8	344		
19/11/28	12:00	1.8	311		

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)			
19/11/28	13:00	1.8	310			
19/11/28	14:00	1.8	336			
19/11/28	15:00	1.3	341			
19/11/28	16:00	1.8	337			
19/11/28	17:00	1.3	340			
19/11/28	18:00	1.8	338			
19/11/28	19:00	1.8	335			
19/11/28	20:00	2.2	3			
19/11/28	21:00	2.2	20			
19/11/28	22:00	2.7	24			
19/11/28	23:00	2.2	30			
19/11/29	0:00	2.2	25			
19/11/29	1:00	2.2	19			
19/11/29	2:00	2.2	30			
19/11/29	3:00	2.2	31			
19/11/29	4:00	2.2	14			
19/11/29	5:00	2.2	25			
19/11/29	6:00	2.2	29			
19/11/29	7:00	2.2	19			
19/11/29	8:00	2.2	13			
19/11/29	9:00	1.8	31			
19/11/29	10:00	1.8	17			
19/11/29	11:00	1.8	25			
19/11/29	12:00	1.3	76			
19/11/29	13:00	1.3	127			
19/11/29	14:00	1.8	143			
19/11/29	15:00	1.8	134			
19/11/29	16:00	0.4	127			
19/11/29	17:00	0.9	6			
19/11/29	18:00	1.3	20			
19/11/29	19:00	1.3	59			
19/11/29	20:00	0.9	11			
19/11/29	21:00	0.9	30			
19/11/29	22:00	1.3	12			
19/11/29	23:00	1.3	20			

Appendix I

Impact Dolphin Monitoring Survey

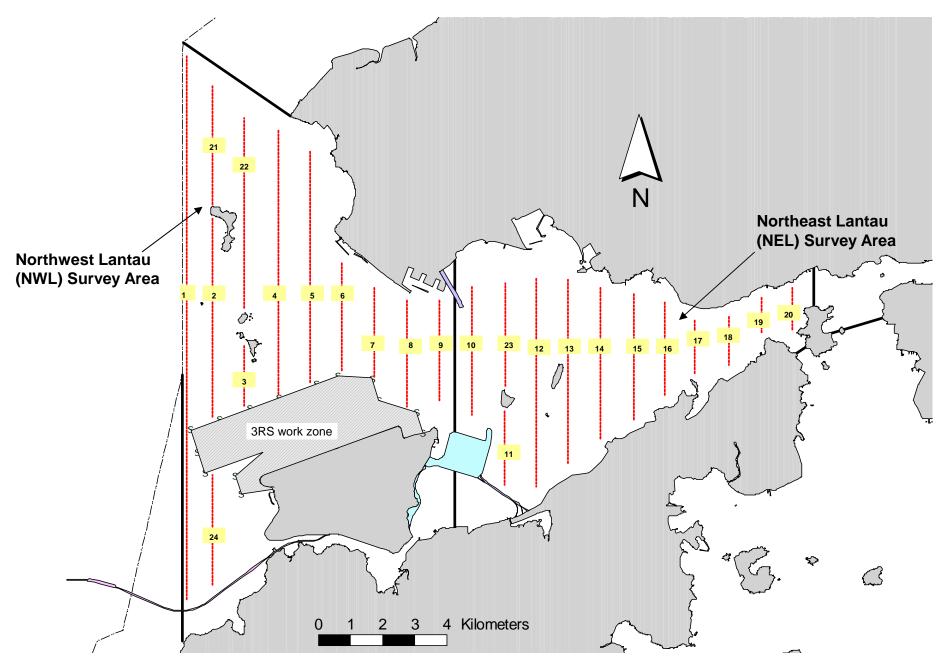


Figure 1. Transect Line Layout in Northwest and Northeast Lantau Survey Areas

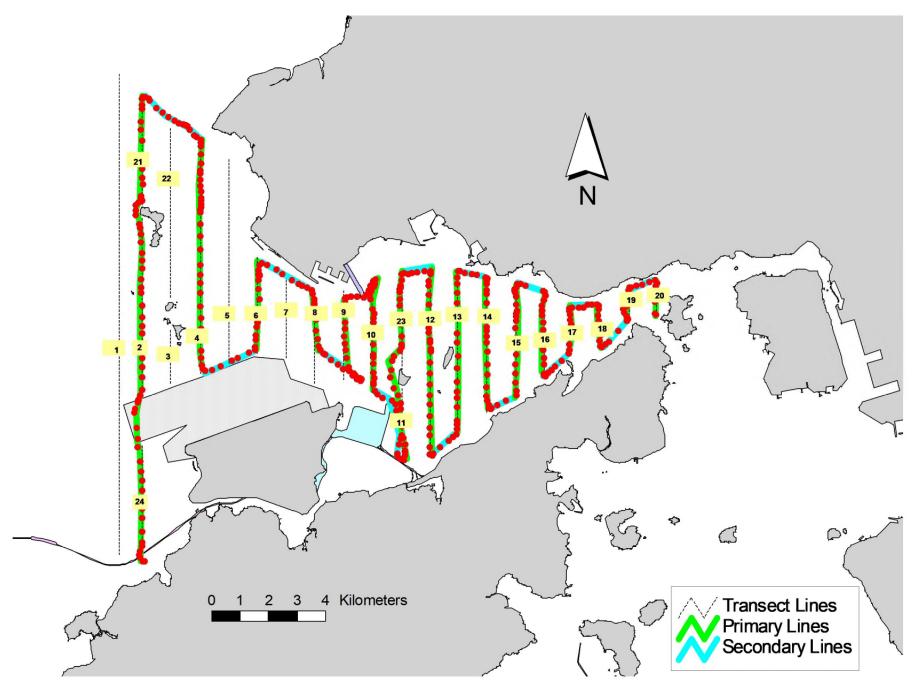


Figure 2. Survey Route on November 5th, 2019

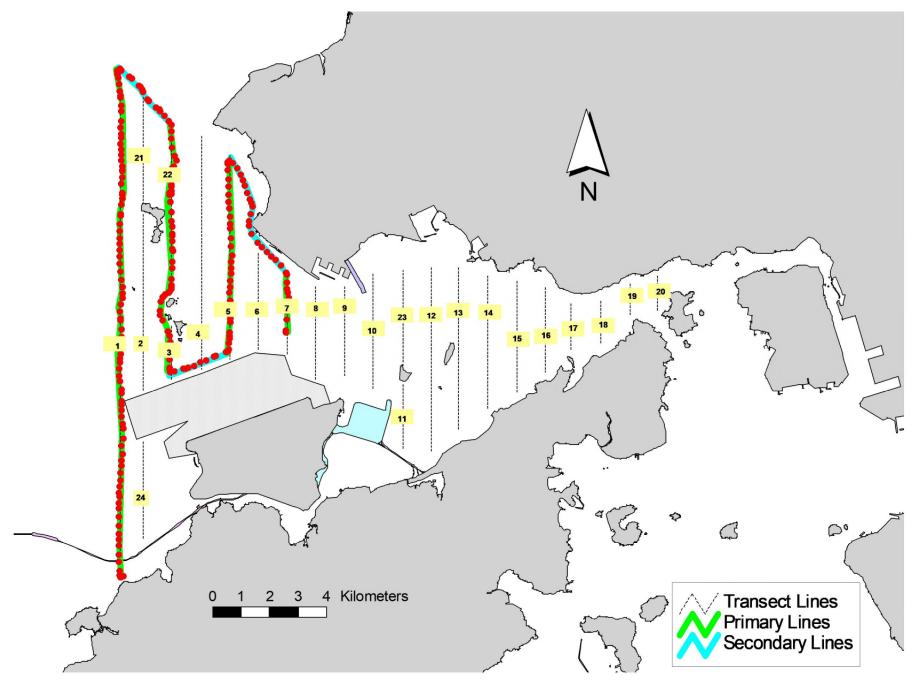


Figure 3. Survey Route on November 19th, 2019

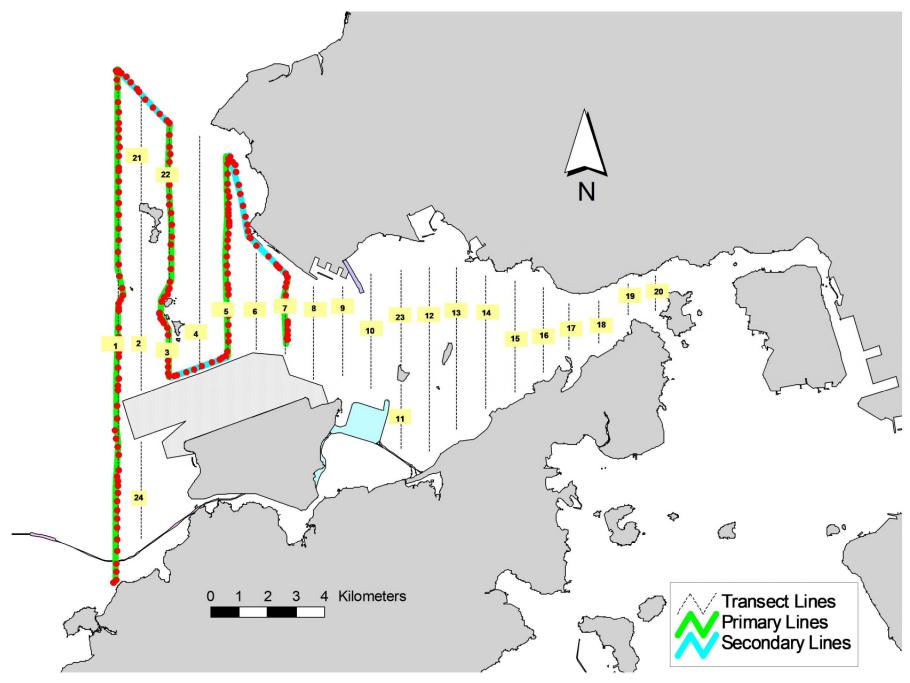


Figure 4. Survey Route on November 27th, 2019

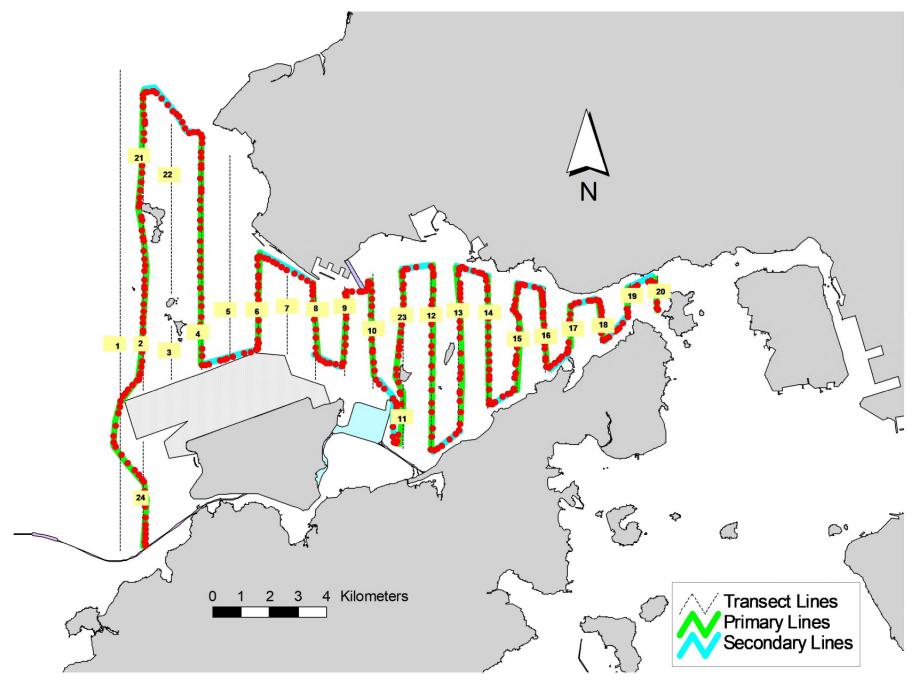


Figure 5. Survey Route on November 28th, 2019

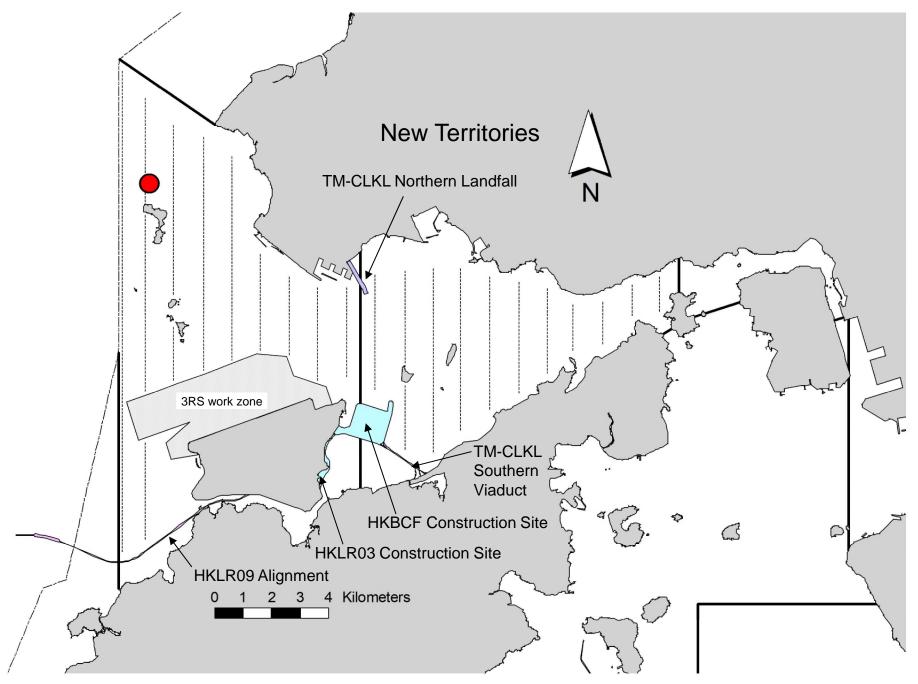


Figure 6. Distribution of Chinese White Dolphin Sightings during November 2019 Monitoring Surveys

Appendix I. TMCLKL Survey Effort Database (November 2019)

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

DATE	AREA	BEAU	EFFORT	SEASON	VESSEL	TYPE	P/S
5-Nov-19	NW LANTAU	2	13.97	AUTUMN	STANDARD36826	TMCLKL	Р
5-Nov-19	NW LANTAU	3	13.02	AUTUMN	STANDARD36826	TMCLKL	Р
5-Nov-19	NW LANTAU	2	4.90	AUTUMN	STANDARD36826	TMCLKL	S
5-Nov-19	NW LANTAU	3	8.21	AUTUMN	STANDARD36826	TMCLKL	S
5-Nov-19	NE LANTAU	1	4.62	AUTUMN	STANDARD36826	TMCLKL	Р
5-Nov-19	NE LANTAU	2	32.15	AUTUMN	STANDARD36826	TMCLKL	Р
5-Nov-19	NE LANTAU	1	3.48	AUTUMN	STANDARD36826	TMCLKL	S
5-Nov-19	NE LANTAU	2	10.95	AUTUMN	STANDARD36826	TMCLKL	S
19-Nov-19	NW LANTAU	2	12.62	AUTUMN	STANDARD36826	TMCLKL	Р
19-Nov-19	NW LANTAU	3	20.43	AUTUMN	STANDARD36826	TMCLKL	Р
19-Nov-19	NW LANTAU	2	5.63	AUTUMN	STANDARD36826	TMCLKL	S
19-Nov-19	NW LANTAU	3	5.22	AUTUMN	STANDARD36826	TMCLKL	S
27-Nov-19	NW LANTAU	2	30.30	AUTUMN	STANDARD36826	TMCLKL	Р
27-Nov-19	NW LANTAU	3	1.10	AUTUMN	STANDARD36826	TMCLKL	Р
27-Nov-19	NW LANTAU	2	9.30	AUTUMN	STANDARD36826	TMCLKL	S
27-Nov-19	NW LANTAU	3	2.60	AUTUMN	STANDARD36826	TMCLKL	S
28-Nov-19	NW LANTAU	2	10.90	AUTUMN	STANDARD36826	TMCLKL	Р
28-Nov-19	NW LANTAU	3	13.76	AUTUMN	STANDARD36826	TMCLKL	Р
28-Nov-19	NW LANTAU	4	1.96	AUTUMN	STANDARD36826	TMCLKL	Р
28-Nov-19	NW LANTAU	2	2.80	AUTUMN	STANDARD36826	TMCLKL	S
28-Nov-19	NW LANTAU	3	8.74	AUTUMN	STANDARD36826	TMCLKL	S
28-Nov-19	NW LANTAU	4	1.24	AUTUMN	STANDARD36826	TMCLKL	S
28-Nov-19	NE LANTAU	2	26.61	AUTUMN	STANDARD36826	TMCLKL	Р
28-Nov-19	NE LANTAU	3	8.50	AUTUMN	STANDARD36826	TMCLKL	Р
28-Nov-19	NE LANTAU	2	11.39	AUTUMN	STANDARD36826	TMCLKL	S
28-Nov-19	NE LANTAU	3	1.10	AUTUMN	STANDARD36826	TMCLKL	S

Appendix II. TMCLKL Chinese White Dolphin Sighting Database (November 2019)

(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
19-Nov-19	1	1144	1	NW LANTAU	3	386	ON	TMCLKL	827671	805583	AUTUMN	NONE	Р

Appendix III. Individual dolphins identified during TMCLKL monitoring surveys in (November 2019)

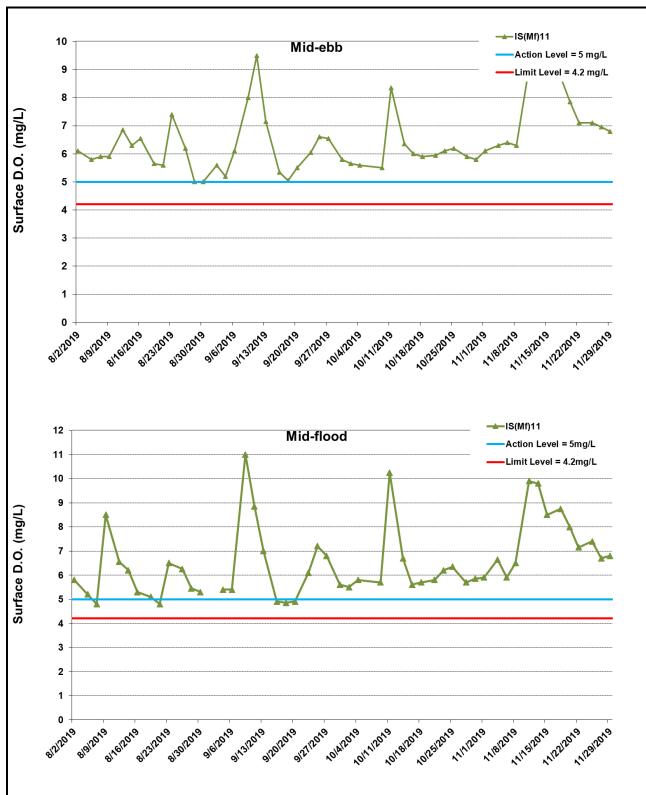
DATE	STG#	AREA
19/11/19	1	NW LANTAU



Appendix IV. Photographs of Identified Individual Dolphins in November 2019 (TMCLKL)

Appendix J

Impact Water Quality Monitoring Results

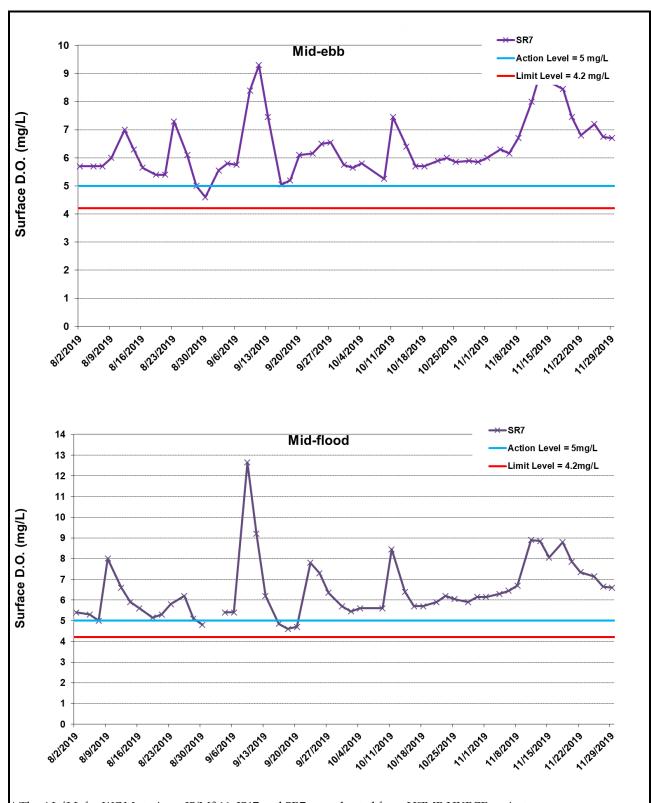


^{*} The AL/LL for WQM stations, IS(Mf)11, IS17 and SR7, are adopted from HZMB HKBCF project.

Figure J1 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in surface waters between 1 August 2019 and 30 November 2019 at IS(Mf)11. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine works included: Seawall Modification Works at Portion S-B (1/8/2019 – 30/11/2019).



^{*}Exceedances of Dissolved oxygen level are calculated based on average value of data from both Surface and Middle level, and bottom level separately.

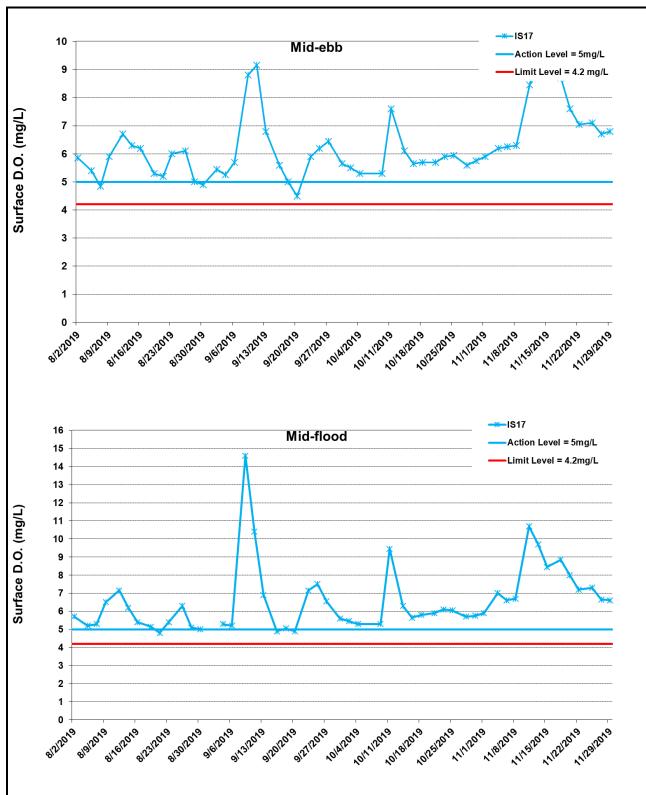


^{*} The AL/LL for WQM stations, IS(Mf)11, IS17 and SR7, are adopted from HZMB HKBCF project.

Figure J2 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in surface waters between 1 August 2019 and 30 November 2019 at SR7. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine works included: Seawall Modification Works at Portion S-B (1/8/2019 – 30/11/2019).



^{*}Exceedances of Dissolved oxygen level are calculated based on average value of data from both Surface and Middle level, and bottom level separately.

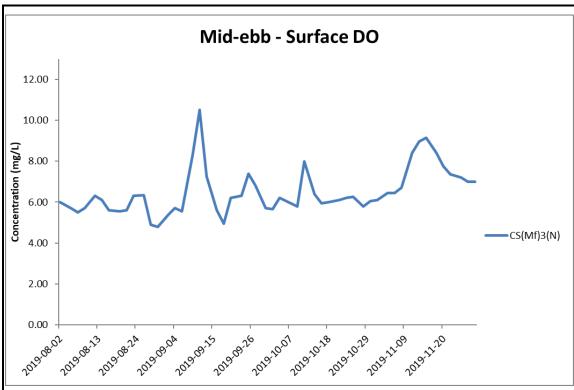


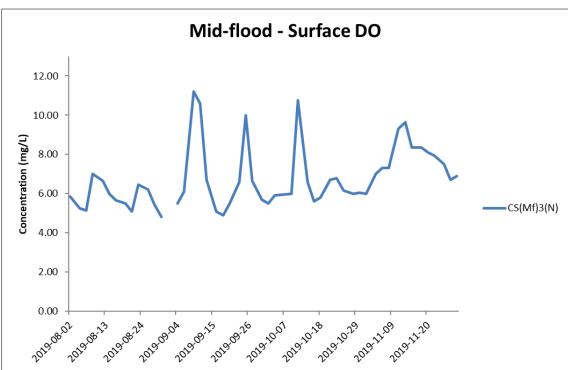
^{*} The AL/LL for WQM stations, IS(Mf)11, IS17 and SR7, are adopted from HZMB HKBCF project.

Figure J3 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in surface waters between 1 August 2019 and 30 November 2019 at IS(Mf)11. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine works included: Seawall Modification Works at Portion S-B (1/8/2019 – 30/11/2019).



^{*}Exceedances of Dissolved oxygen level are calculated based on average value of data from both Surface and Middle level, and bottom level separately.

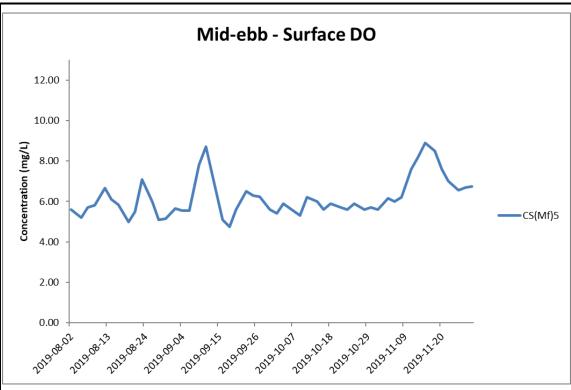


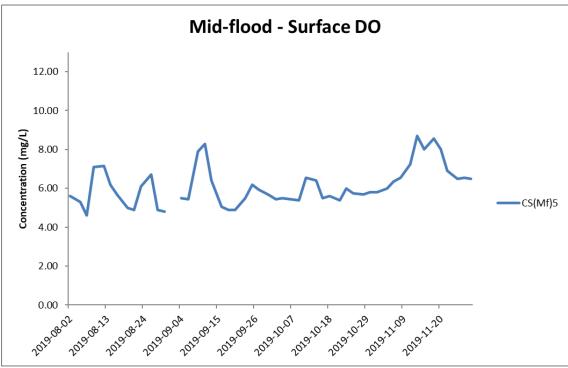


^{*}Exceedances of Dissolved oxygen level are calculated based on average value of data from both Surface and Middle level, and bottom level separately.

Figure J4 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in surface waters between 1 August 2019 and 30 November 2019 at CS(Mf)3(N). The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine works included: Seawall Modification Works at Portion S-B (1/8/2019 - 30/11/2019).



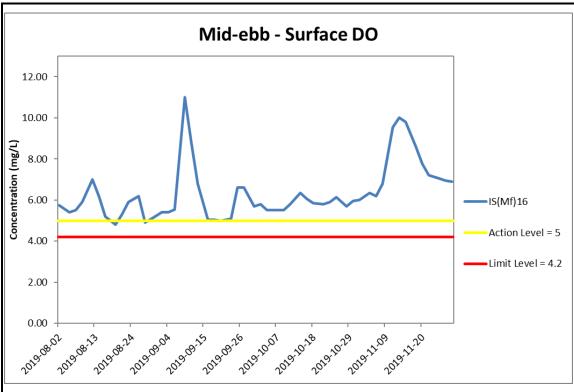


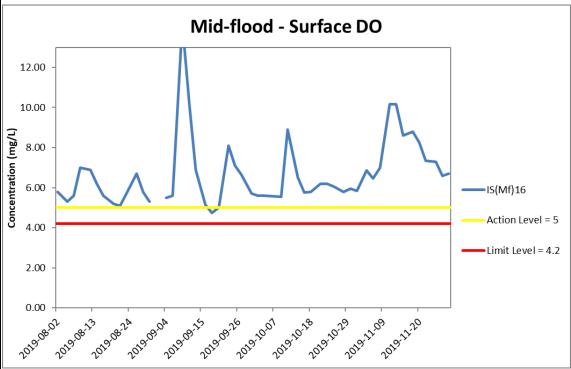


^{*}Exceedances of Dissolved oxygen level are calculated based on average value of data from both Surface and Middle level, and bottom level separately.

Figure J5 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in surface waters between 1 August 2019 and 30 November 2019 at CS(Mf)5. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine works included: Seawall Modification Works at Portion S-B (1/8/2019 – 30/11/2019).



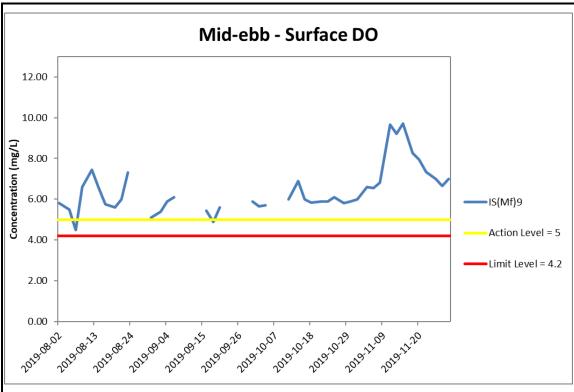


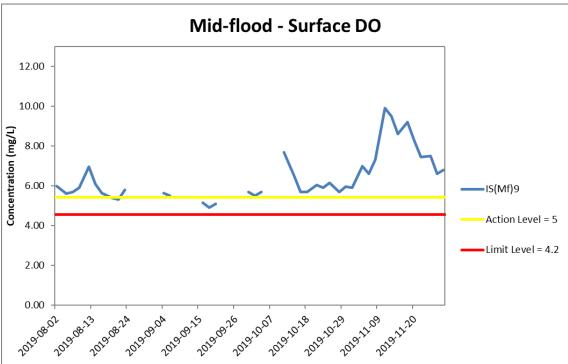


^{*}Exceedances of Dissolved oxygen level are calculated based on average value of data from both Surface and Middle level, and bottom level separately.

Figure J6 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in surface waters between 1 August 2019 and 30 November 2019 at IS(Mf)16. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine works included: Seawall Modification Works at Portion S-B (1/8/2019 – 30/11/2019).



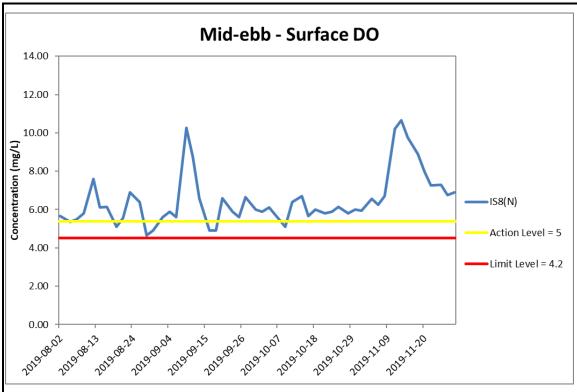


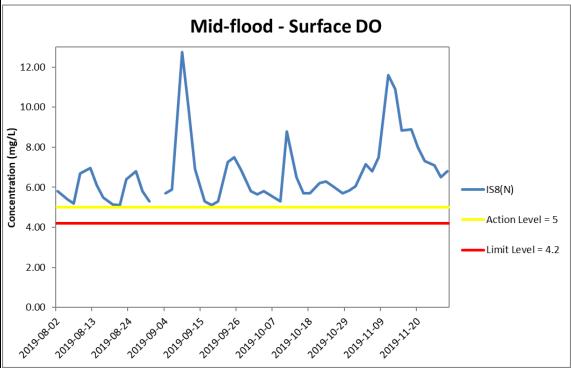


^{*}Exceedances of Dissolved oxygen level are calculated based on average value of data from both Surface and Middle level, and bottom level separately.

Figure J7 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in surface waters between 1 August 2019 and 30 November 2019 at IS(Mf)9. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine works included: Seawall Modification Works at Portion S-B (1/8/2019 – 30/11/2019).



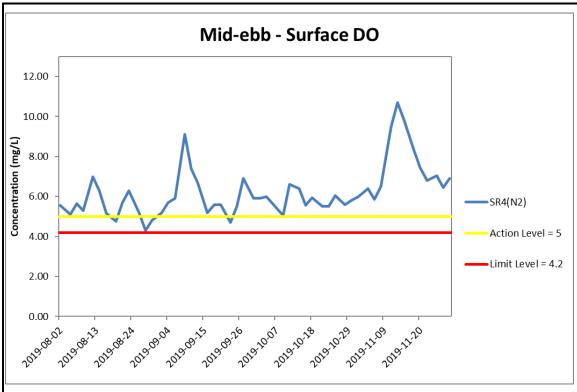


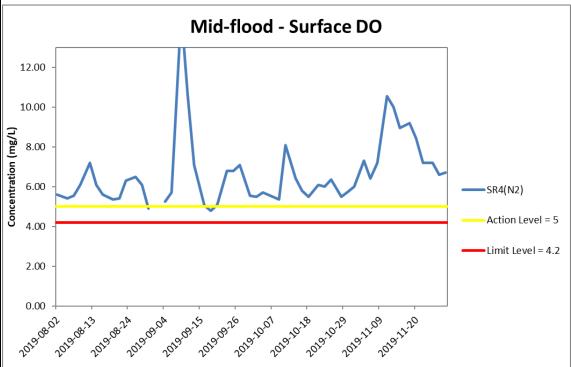


^{*}Exceedances of Dissolved oxygen level are calculated based on average value of data from both Surface and Middle level, and bottom level separately.

Figure J8 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in surface waters between 1 August 2019 and 30 November 2019 at IS8(N). The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine works included: Seawall Modification Works at Portion S-B (1/8/2019 – 30/11/2019).



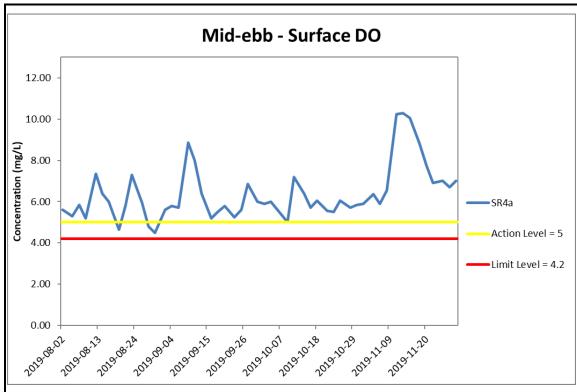


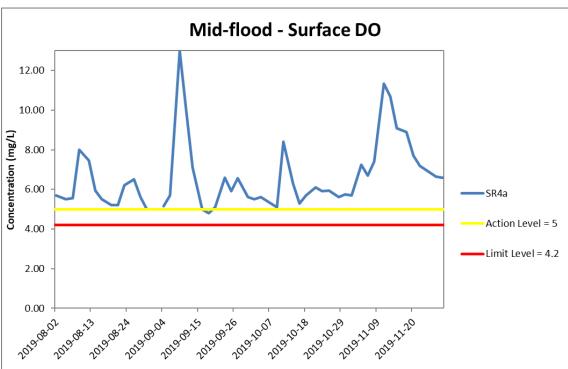


^{*}Exceedances of Dissolved oxygen level are calculated based on average value of data from both Surface and Middle level, and bottom level separately.

Figure J9 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in surface waters between 1 August 2019 and 30 November 2019 at SR4(N2). The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine works included: Seawall Modification Works at Portion S-B (1/8/2019 – 30/11/2019).



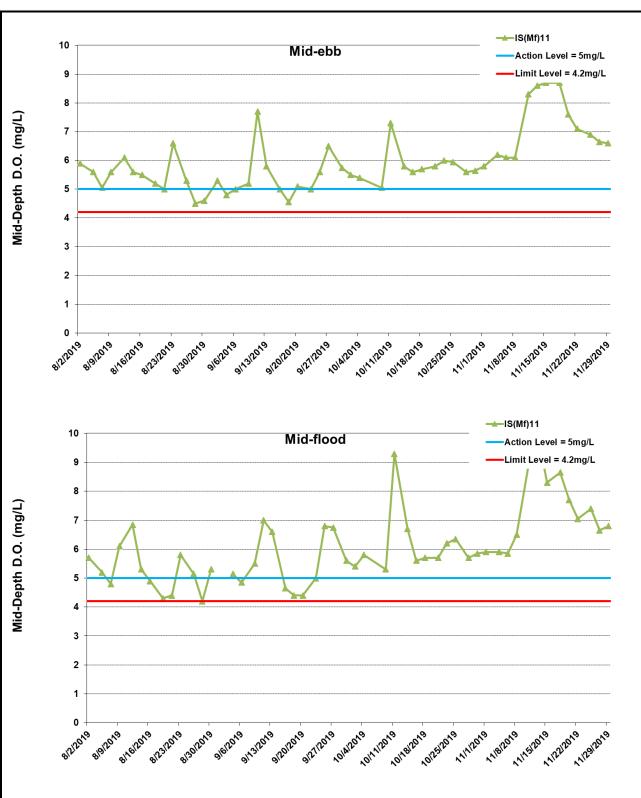




*Exceedances of Dissolved oxygen level are calculated based on average value of data from both Surface and Middle level, and bottom level separately.

Figure J10 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in surface waters between 1 August 2019 and 30 November 2019 at SR4a. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine works included: Seawall Modification Works at Portion S-B (1/8/2019 - 30/11/2019).





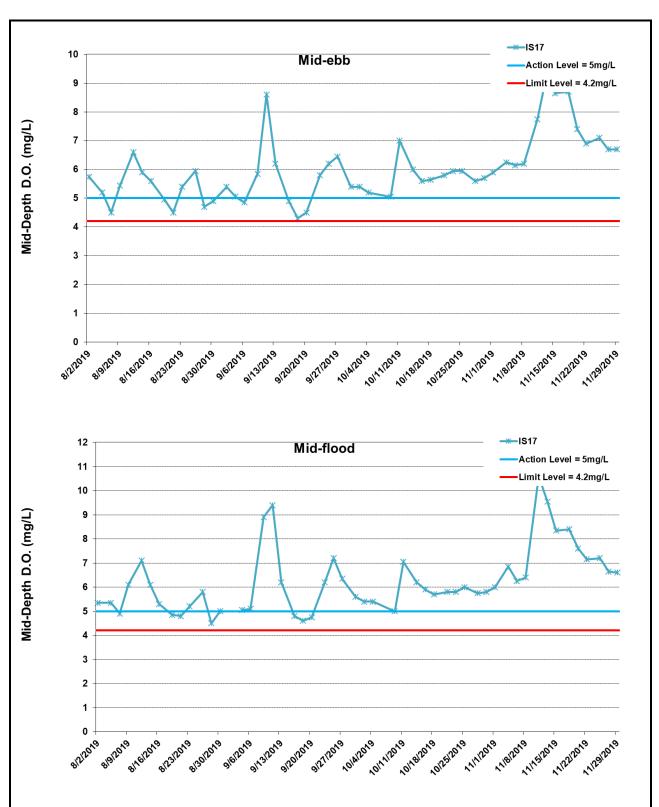
^{*} The AL/LL for WQM stations, IS(Mf)11, IS17 and SR7, are adopted from HZMB HKBCF project.

Figure J11 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in middepth waters between 1 August 2019 and 30 November 2019 at IS(Mf)11. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine works included: Seawall Modification Works at Portion S-B (1/8/2019 - 30/11/2019).



^{*}No data for Stations SR7 due to shallow water depth (< 6m).

^{*}Exceedances of Dissolved oxygen level are calculated based on average value of data from both Surface and Middle level, and bottom level separately.



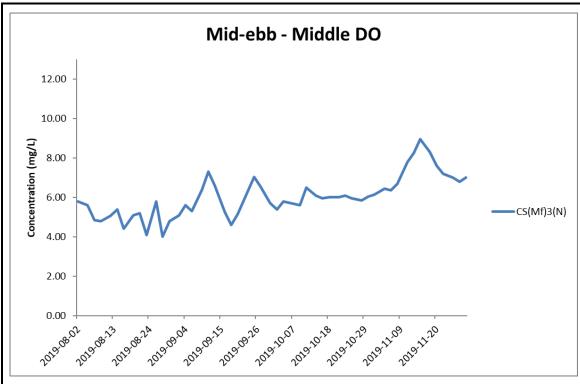
^{*} The AL/LL for WQM stations, IS(Mf)11, IS17 and SR7, are adopted from HZMB HKBCF project.

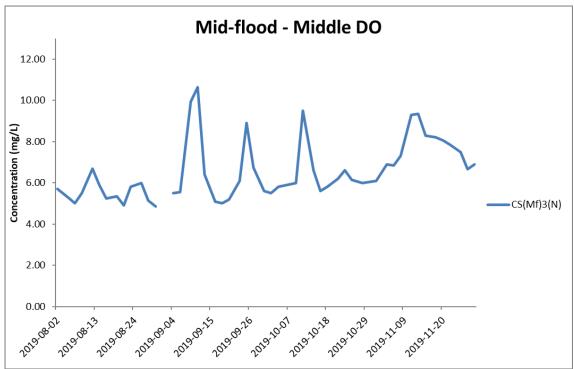
Figure J12 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in middepth waters between 1 August 2019 and 30 November 2019 at IS17. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine works included: Seawall Modification Works at Portion S-B (1/8/2019 - 30/11/2019).



^{*}No data for Stations SR7 due to shallow water depth (< 6m).

^{*}Exceedances of Dissolved oxygen level are calculated based on average value of data from both Surface and Middle level, and bottom level separately.

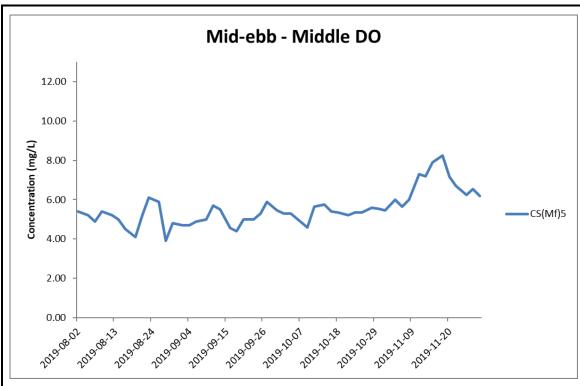


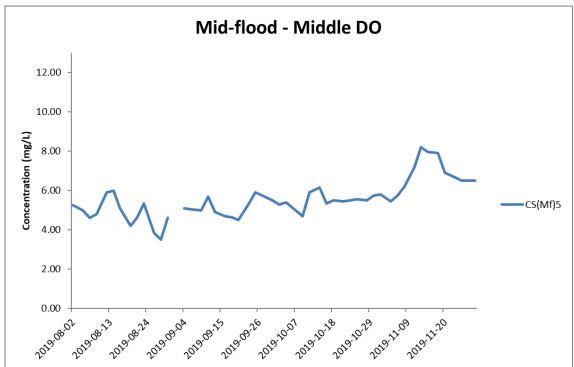


^{*}Exceedances of Dissolved oxygen level are calculated based on average value of data from both Surface and Middle level, and bottom level separately.

Figure J13 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in middepth waters between 1 August 2019 and 30 November 2019 at CS(Mf)3(N). The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine works included: Seawall Modification Works at Portion S-B (1/8/2019 – 30/11/2019).





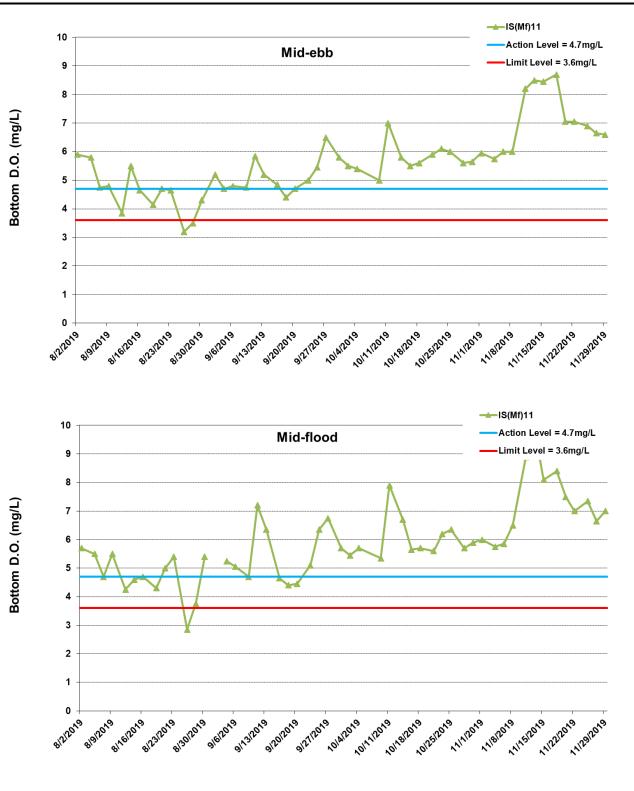


^{*}Exceedances of Dissolved oxygen level are calculated based on average value of data from both Surface and Middle level, and bottom level separately.

Figure J14 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in middepth waters between 1 August 2019 and 30 November 2019 at CS(Mf)5. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine works included: Seawall Modification Works at Portion S-B (1/8/2019 - 30/11/2019).



 $Ref: \qquad 0212330_Impact-WQM_November 2019_graphs_Rev\ a.xls$

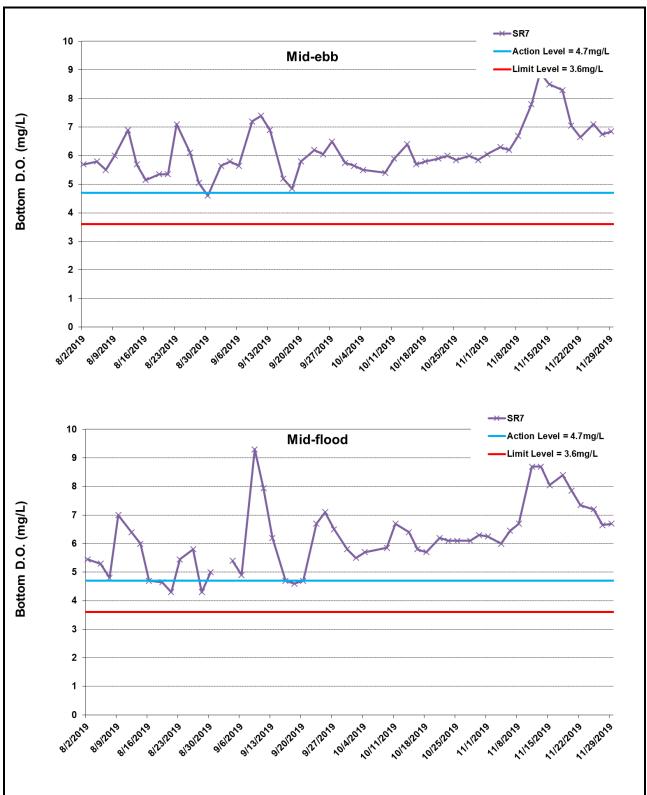


^{*} The AL/LL for WQM stations, IS(Mf)11, IS17 and SR7, are adopted from HZMB HKBCF project.

Figure J15 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in bottom water between 1 August 2019 and 30 November 2019 at IS(Mf)11. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine works included: Seawall Modification Works at Portion S-B (1/8/2019 – 30/11/2019).



^{*}Exceedances of Dissolved oxygen level are calculated based on average value of data from both Surface and Middle level, and bottom level separately.

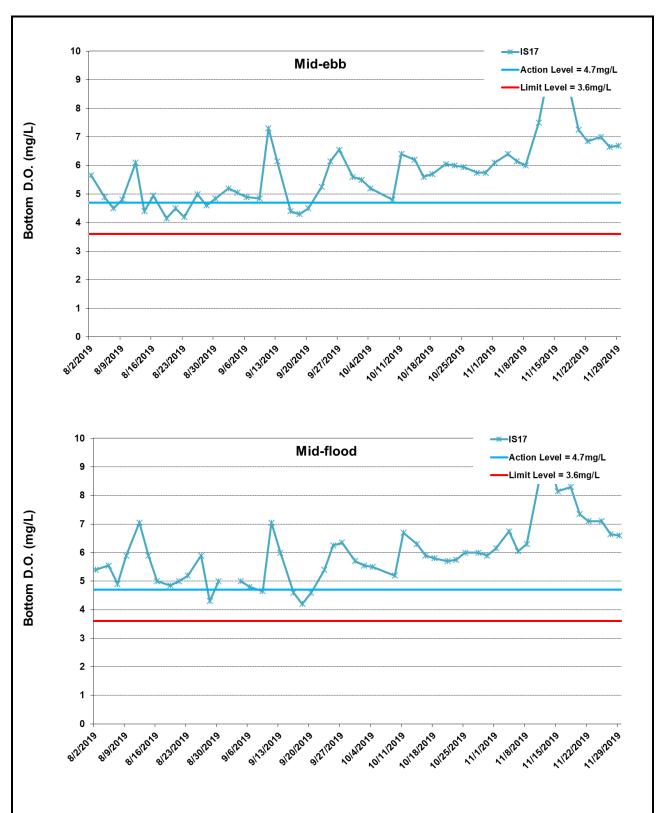


^{*} The AL/LL for WQM stations, IS(Mf)11, IS17 and SR7, are adopted from HZMB HKBCF project.

Figure J16 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in bottom water between 1 August 2019 and 30 November 2019 at SR7. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine works included: Seawall Modification Works at Portion S-B (1/8/2019 - 30/11/2019).



^{*}Exceedances of Dissolved oxygen level are calculated based on average value of data from both Surface and Middle level, and bottom level separately.

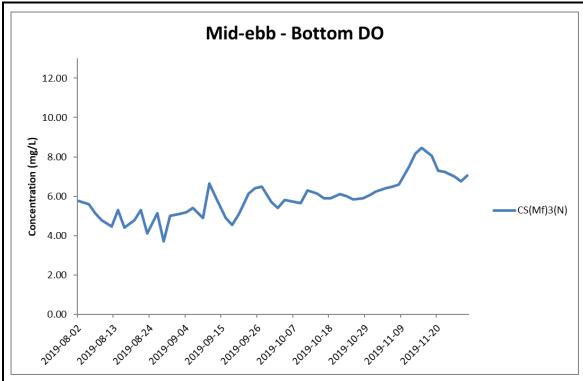


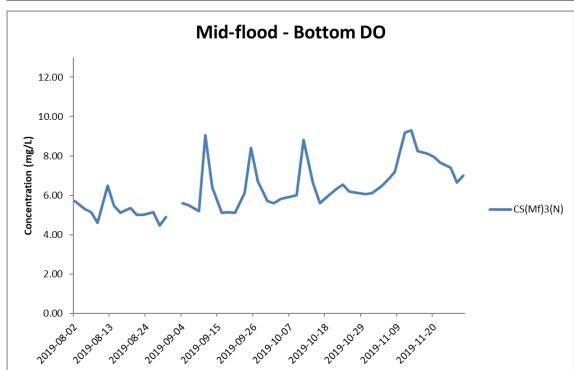
^{*} The AL/LL for WQM stations, IS(Mf)11, IS17 and SR7, are adopted from HZMB HKBCF project.

Figure J17 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in bottom water between 1 August 2019 and 30 November 2019 at IS17. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine works included: Seawall Modification Works at Portion S-B (1/8/2019 - 30/11/2019).



^{*}Exceedances of Dissolved oxygen level are calculated based on average value of data from both Surface and Middle level, and bottom level separately.

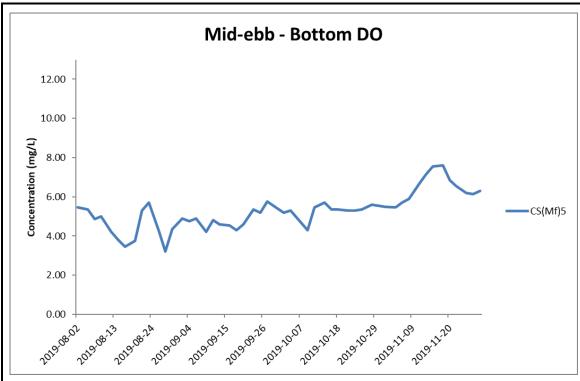


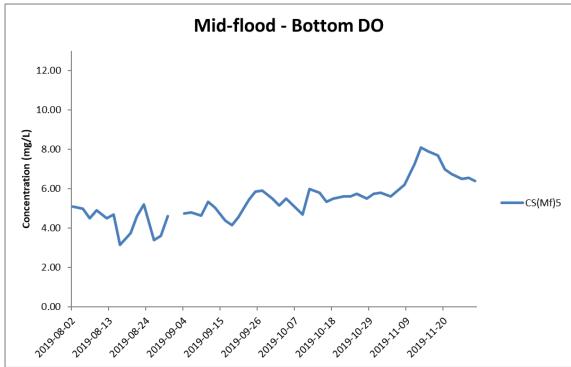


^{*}Exceedances of Dissolved oxygen level are calculated based on average value of data from both Surface and Middle level, and bottom level separately.

Figure J18 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in bottom water between 1 August 2019 and 30 November 2019 at CS(Mf)3(N). The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine works included: Seawall Modification Works at Portion S-B (1/8/2019 - 30/11/2019).



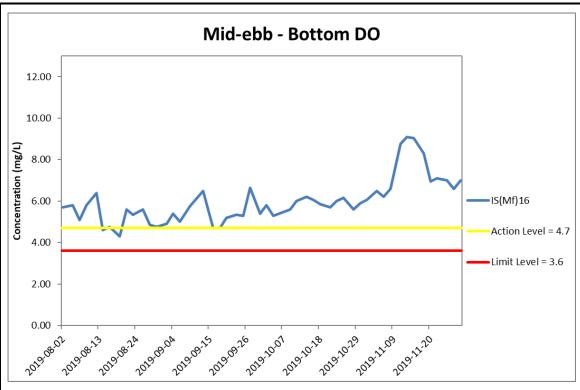


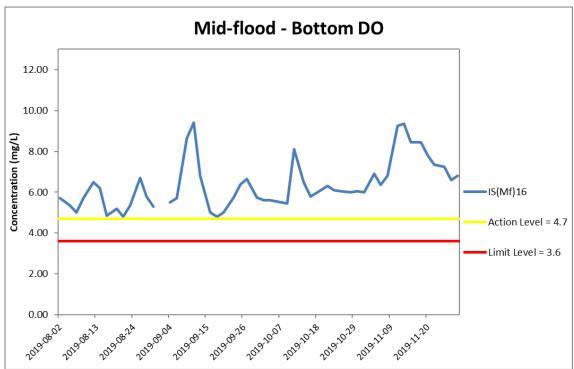


^{*}Exceedances of Dissolved oxygen level are calculated based on average value of data from both Surface and Middle level, and bottom level separately.

Figure J19 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in bottom water between 1 August 2019 and 30 November 2019 at CS(Mf)5. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine works included: Seawall Modification Works at Portion S-B (1/8/2019 – 30/11/2019).



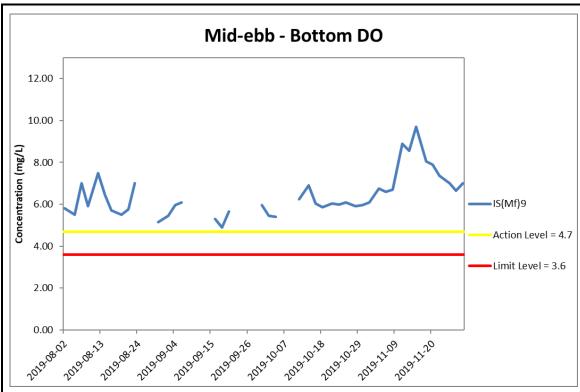


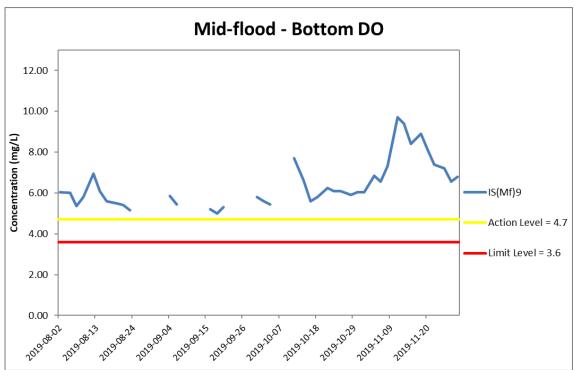


*Exceedances of Dissolved oxygen level are calculated based on average value of data from both Surface and Middle level, and bottom level separately.

Figure J20 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in bottom water between 1 August 2019 and 30 November 2019 at IS(Mf)16. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine works included: Seawall Modification Works at Portion S-B (1/8/2019 - 30/11/2019).



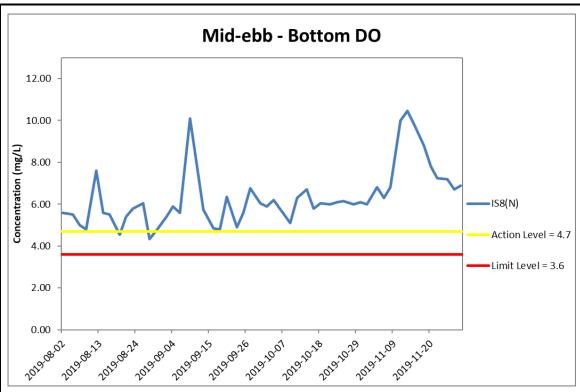


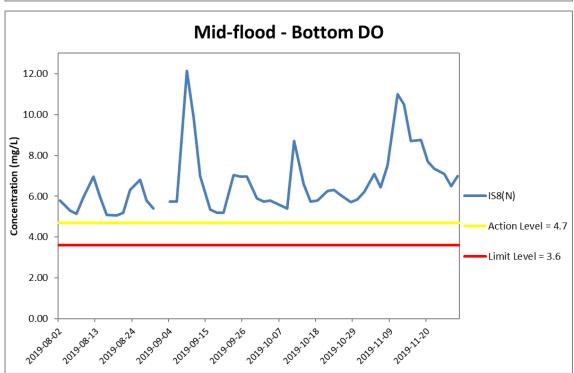


^{*}Exceedances of Dissolved oxygen level are calculated based on average value of data from both Surface and Middle level, and bottom level separately.

Figure J21 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in bottom water between 1 August 2019 and 30 November 2019 at IS(Mf)9. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine works included: Seawall Modification Works at Portion S-B (1/8/2019 - 30/11/2019).



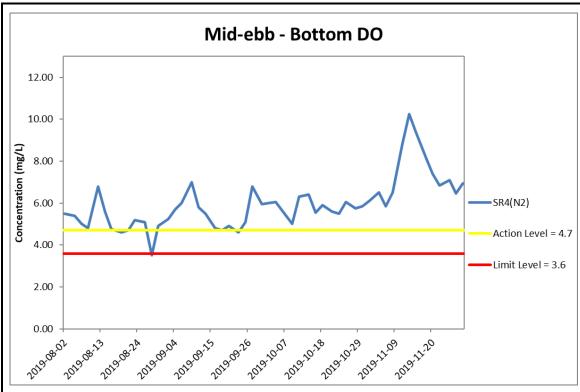


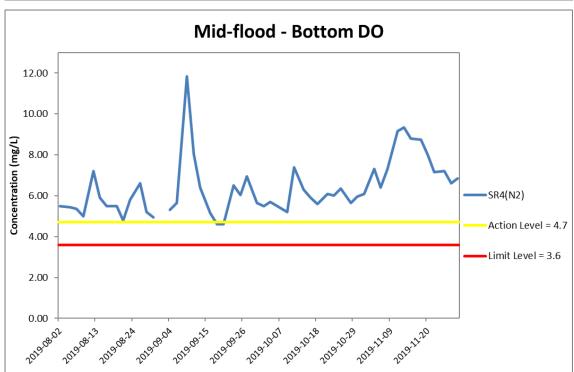


^{*}Exceedances of Dissolved oxygen level are calculated based on average value of data from both Surface and Middle level, and bottom level separately.

Figure J22 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in bottom water between 1 August 2019 and 30 November 2019 at IS8(N). The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine works included: Seawall Modification Works at Portion S-B (1/8/2019 - 30/11/2019).



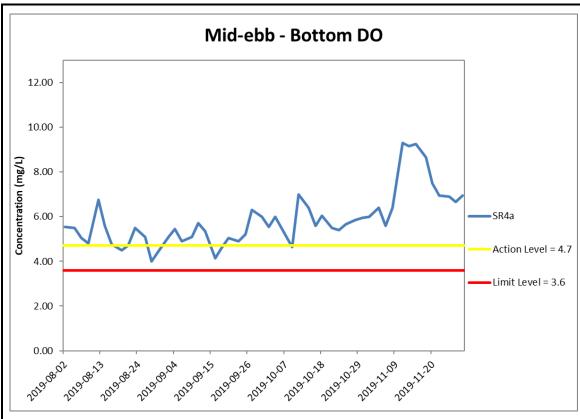


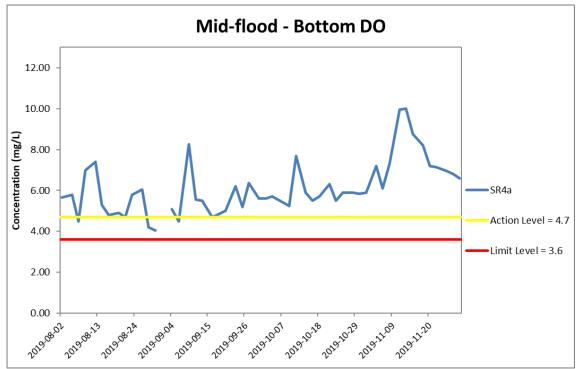


^{*}Exceedances of Dissolved oxygen level are calculated based on average value of data from both Surface and Middle level, and bottom level separately.

Figure J23 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in bottom water between 1 August 2019 and 30 November 2019 at SR4(N2). The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine works included: Seawall Modification Works at Portion S-B (1/8/2019 - 30/11/2019).







^{*}Exceedances of Dissolved oxygen level are calculated based on average value of data from both Surface and Middle level, and bottom level separately.

Figure J24 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in bottom water between 1 August 2019 and 30 November 2019 at SR4a. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine works included: Seawall Modification Works at Portion S-B (1/8/2019 - 30/11/2019).



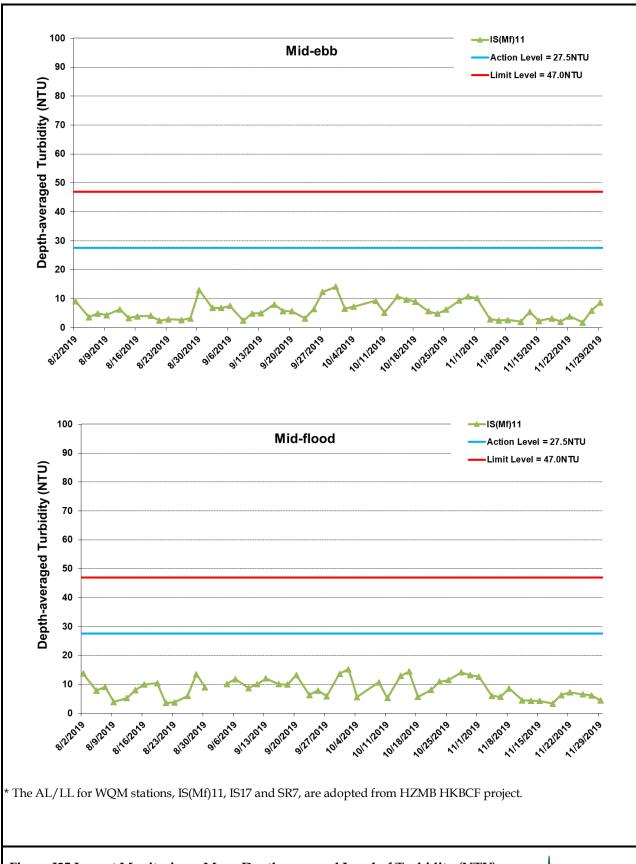
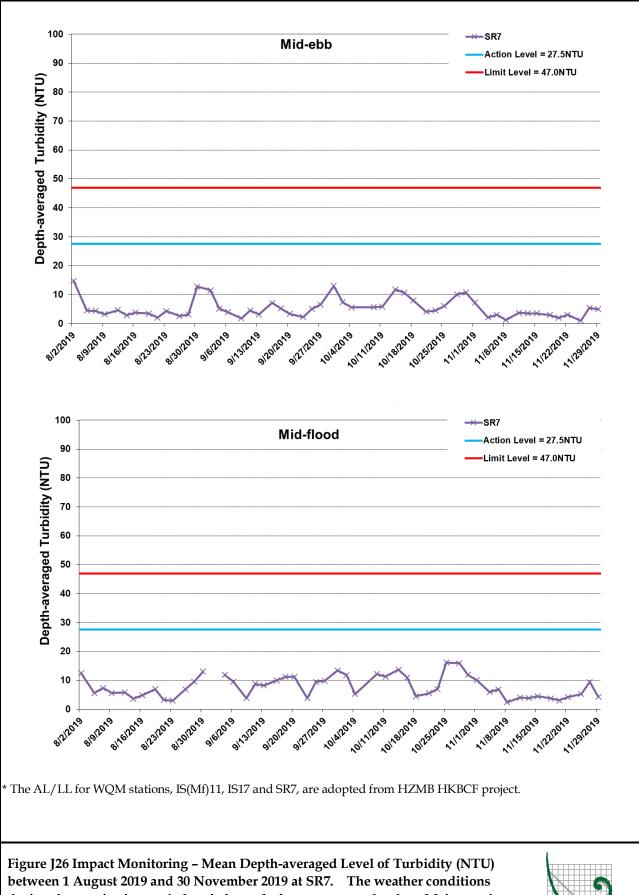


Figure J25 Impact Monitoring – Mean Depth-averaged Level of Turbidity (NTU) between 1 August 2019 and 30 November 2019 at IS(Mf)11. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine works included: Seawall Modification Works at Portion S-B (1/8/2019 – 30/11/2019).





during the monitoring period varied mostly from sunny to cloudy. Major marine works included: Seawall Modification Works at Portion S-B (1/8/2019 - 30/11/2019).



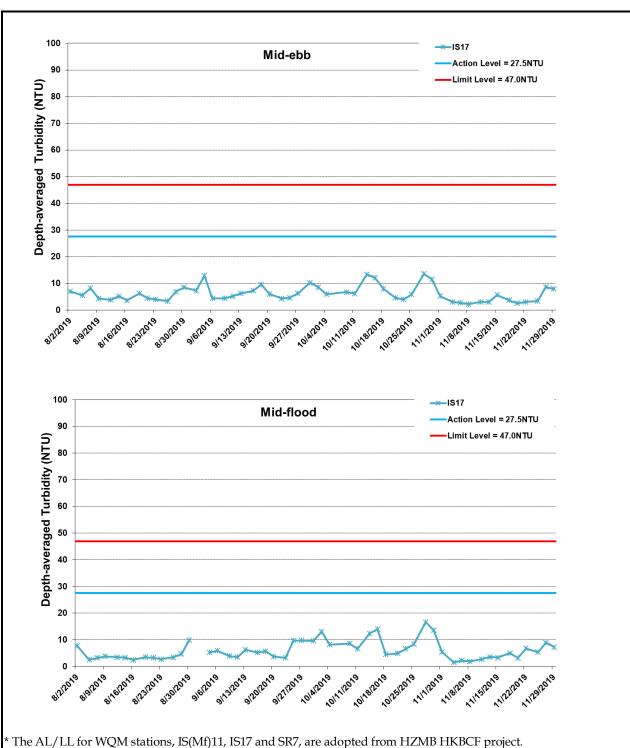
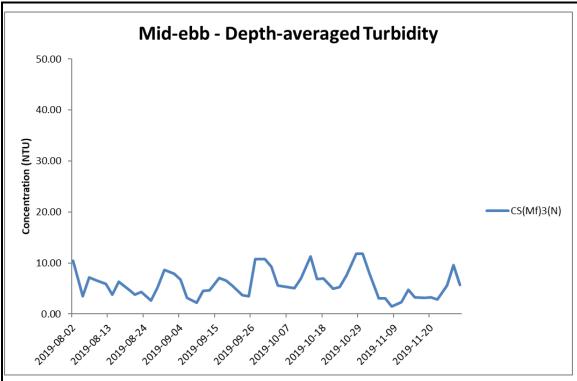


Figure J27 Impact Monitoring - Mean Depth-averaged Level of Turbidity (NTU) between 1 August 2019 and 30 November 2019 at IS17. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine works included: Seawall Modification Works at Portion S-B (1/8/2019 - 30/11/2019).





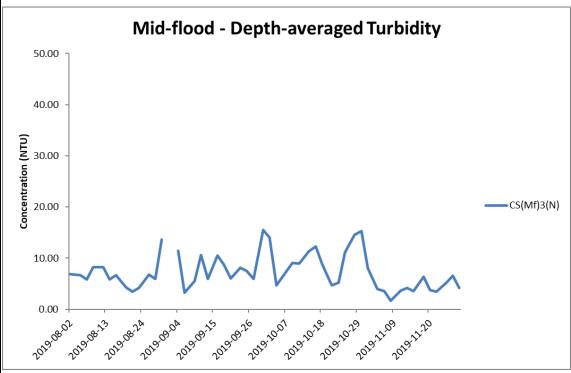
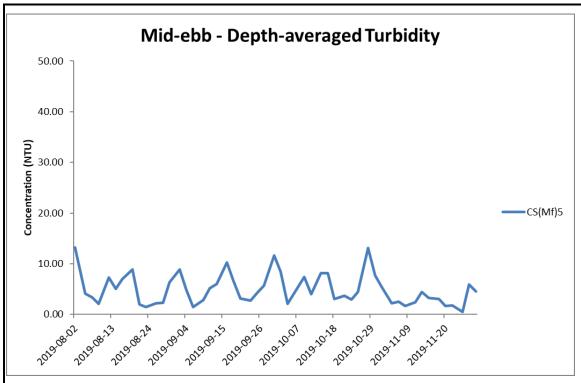


Figure J28 Impact Monitoring - Mean Depth-averaged Level of Turbidity (NTU) between 1 August 2019 and 30 November 2019 at CS(Mf)3(N). The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine works included: Seawall Modification Works at Portion S-B (1/8/2019 - 30/11/2019).



 $Ref: \qquad 0212330_Impact-WQM_November 2019_graphs_Rev\ a.xls$



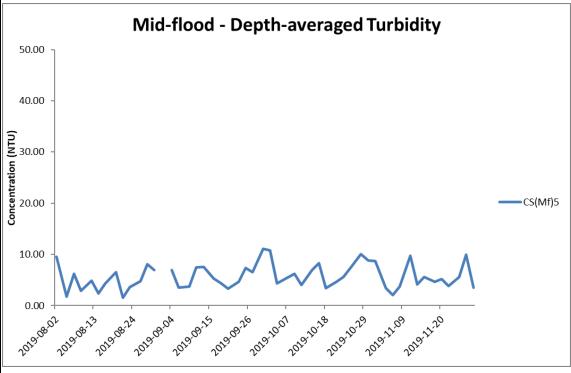
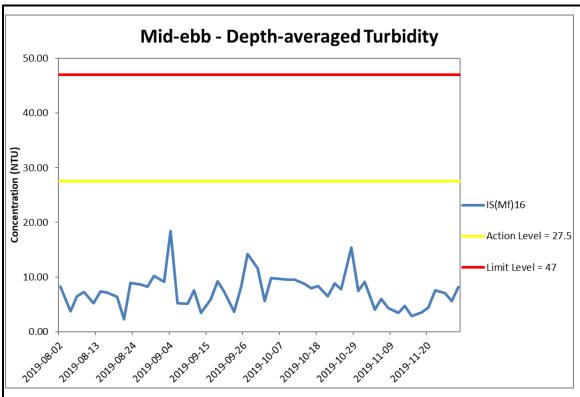


Figure J29 Impact Monitoring - Mean Depth-averaged Level of Turbidity (NTU) between 1 August 2019 and 30 November 2019 at CS(Mf)5. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine works included: Seawall Modification Works at Portion S-B (1/8/2019 - 30/11/2019).





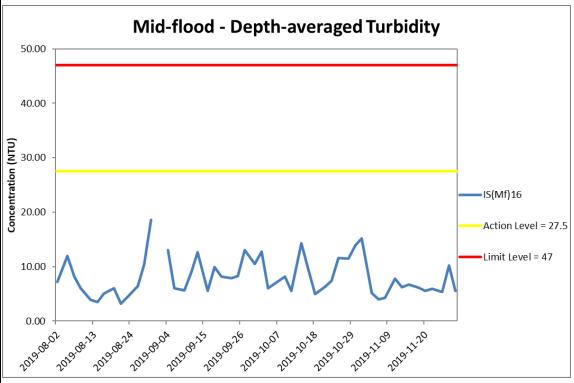
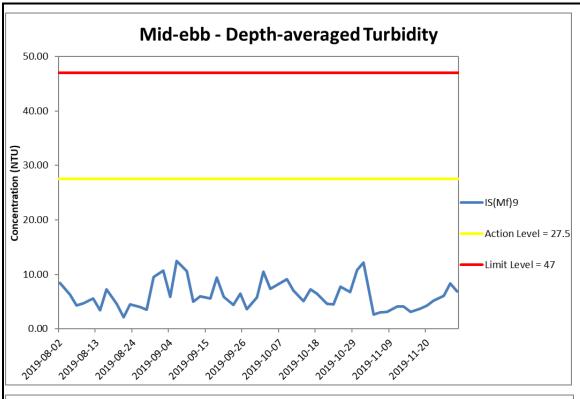


Figure J30 Impact Monitoring - Mean Depth-averaged Level of Turbidity (NTU) between 1 August 2019 and 30 November 2019 at IS(Mf)16. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine works included: Seawall Modification Works at Portion S-B (1/8/2019 - 30/11/2019).





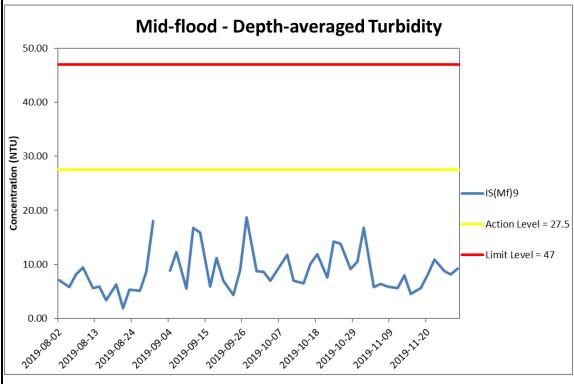
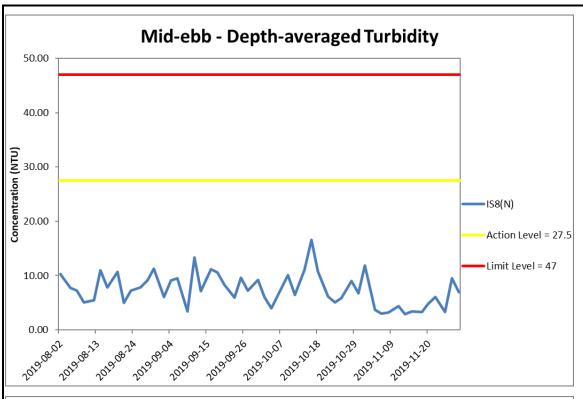


Figure J31 Impact Monitoring - Mean Depth-averaged Level of Turbidity (NTU) between 1 August 2019 and 30 November 2019 at IS(Mf)9. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine works included: Seawall Modification Works at Portion S-B (1/8/2019 - 30/11/2019).





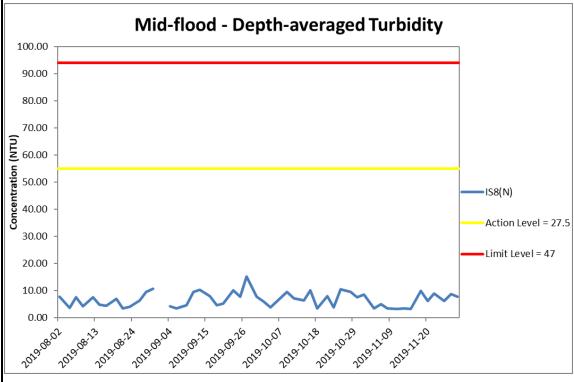
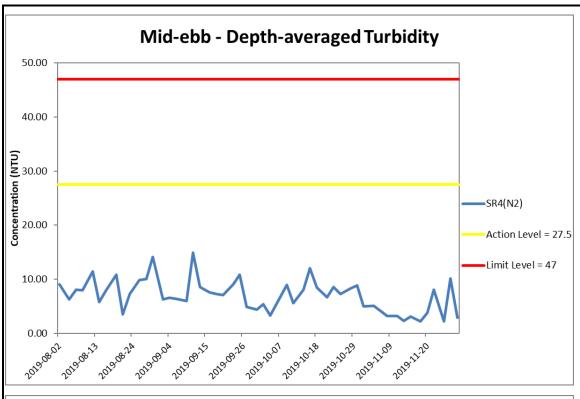


Figure J32 Impact Monitoring – Mean Depth-averaged Level of Turbidity (NTU) between 1 August 2019 and 30 November 2019 at IS8(N). The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine works included: Seawall Modification Works at Portion S-B (1/8/2019 – 30/11/2019).



 $Ref: \qquad 0212330_Impact-WQM_November 2019_graphs_Rev\ a.xls$



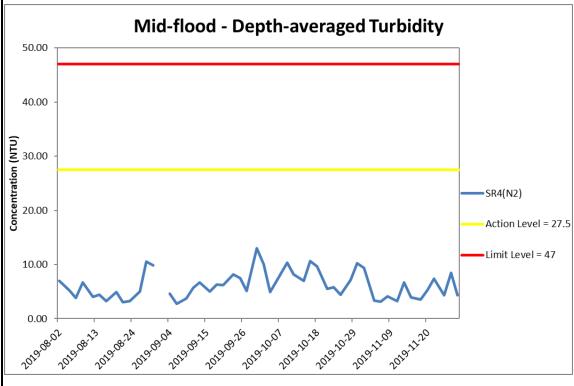
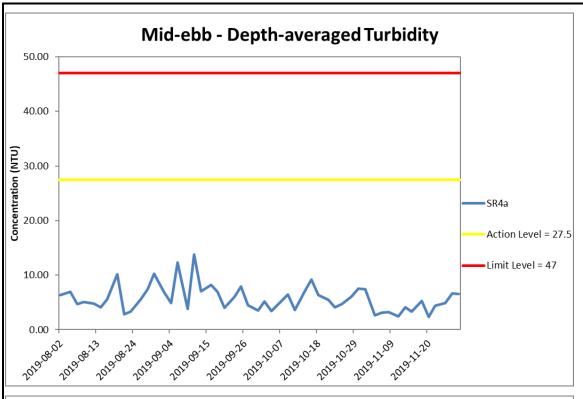


Figure J33 Impact Monitoring - Mean Depth-averaged Level of Turbidity (NTU) between 1 August 2019 and 30 November 2019 at SR4(N2). The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine works included: Seawall Modification Works at Portion S-B (1/8/2019 - 30/11/2019).





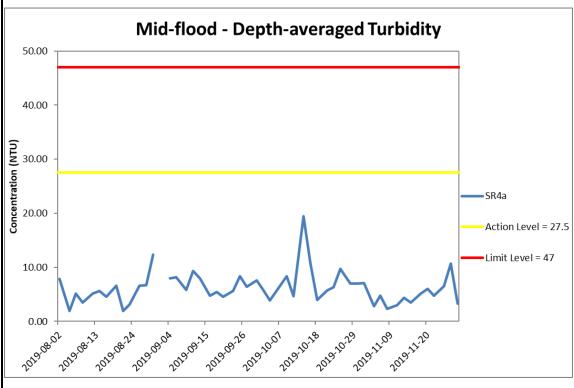


Figure J34 Impact Monitoring - Mean Depth-averaged Level of Turbidity (NTU) between 1 August 2019 and 30 November 2019 at SR4a. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine works included: Seawall Modification Works at Portion S-B (1/8/2019 - 30/11/2019).



 $Ref: \qquad 0212330_Impact-WQM_November 2019_graphs_Rev\ a.xls$

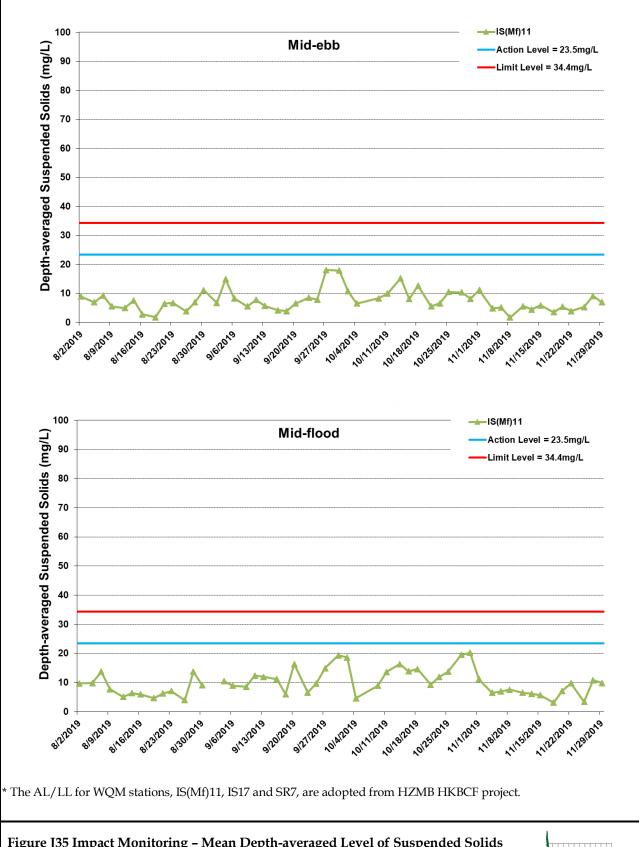


Figure J35 Impact Monitoring - Mean Depth-averaged Level of Suspended Solids (mg/L) between 1 August 2019 and 30 November 2019 at IS(Mf)11. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine works included: Seawall Modification Works at Portion S-B (1/8/2019 - 30/11/2019).



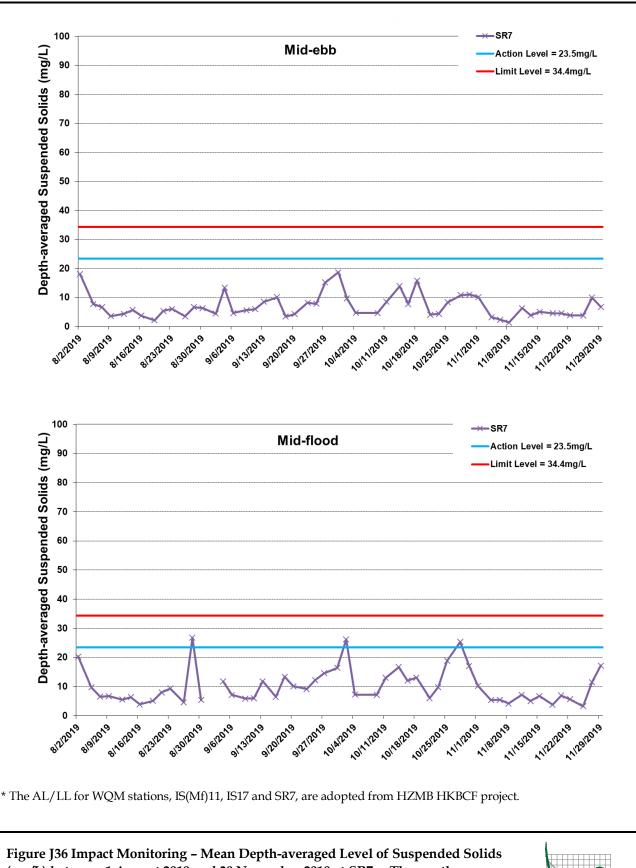
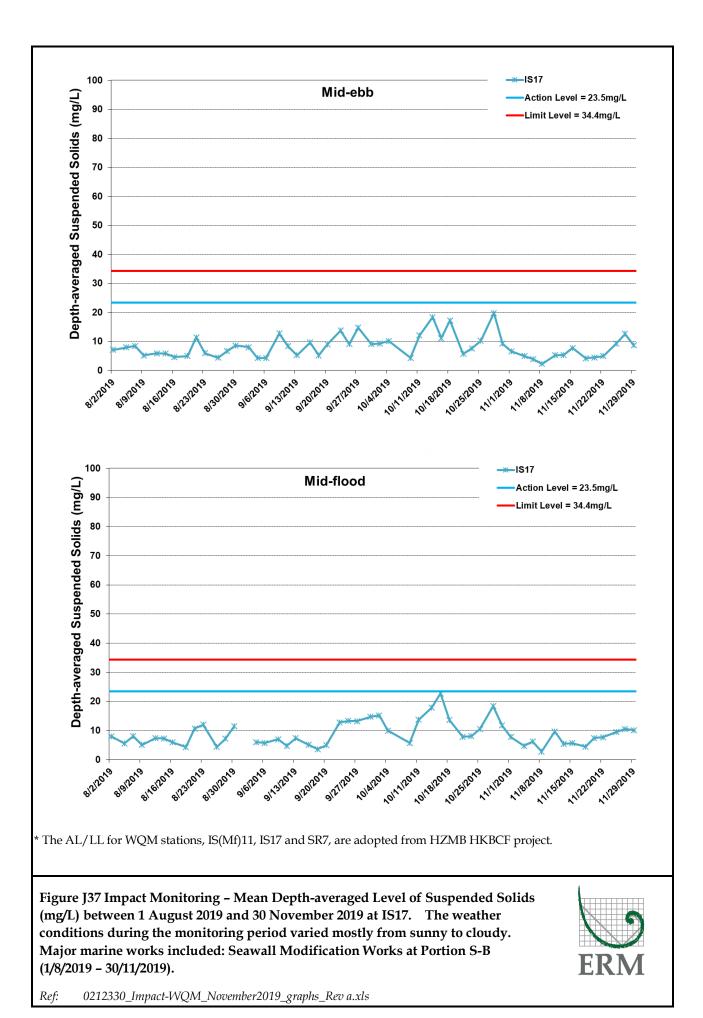
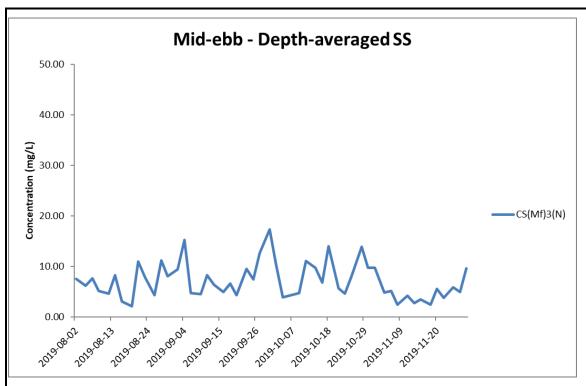


Figure J36 Impact Monitoring – Mean Depth-averaged Level of Suspended Solids (mg/L) between 1 August 2019 and 30 November 2019 at SR7. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine works included: Seawall Modification Works at Portion S-B (1/8/2019 – 30/11/2019).







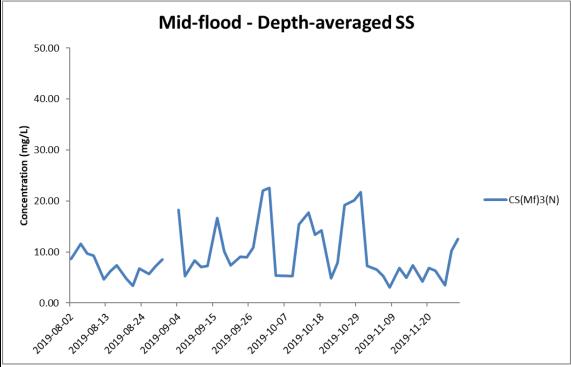
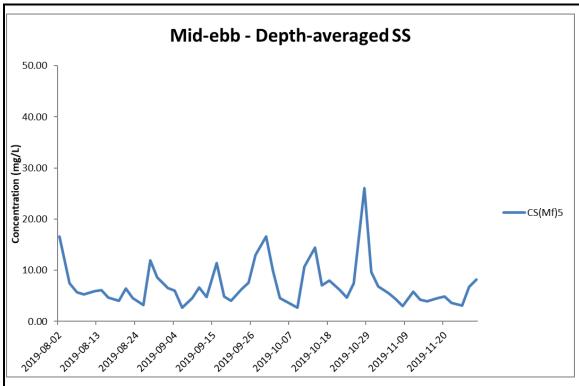


Figure J38 Impact Monitoring - Mean Depth-averaged Level of Suspended Solids (mg/L) between 1 August 2019 and 30 November 2019 at CS(Mf)3(N). The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine works included: Seawall Modification Works at Portion S-B (1/8/2019 - 30/11/2019).





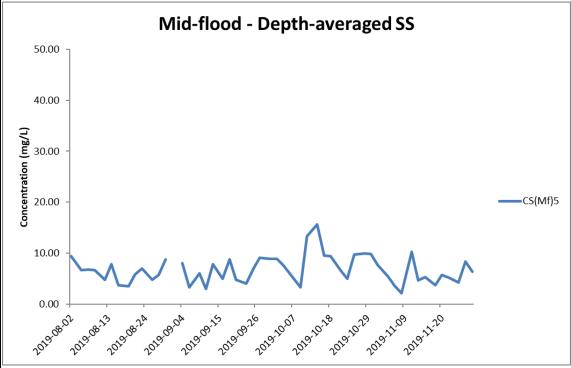
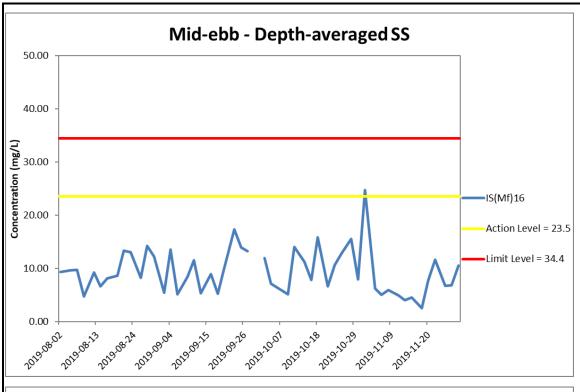


Figure J39 Impact Monitoring – Mean Depth-averaged Level of Suspended Solids (mg/L) between 1 August 2019 and 30 November 2019 at CS(Mf)5. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine works included: Seawall Modification Works at Portion S-B (1/8/2019 – 30/11/2019).





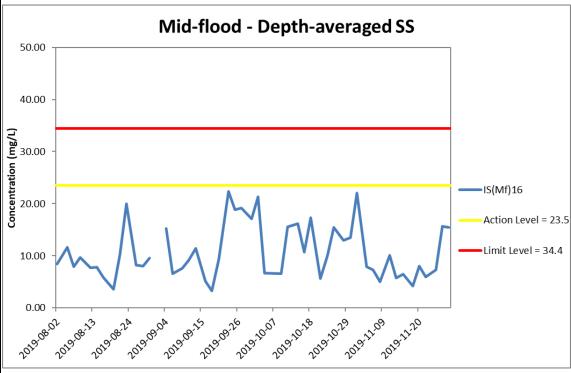
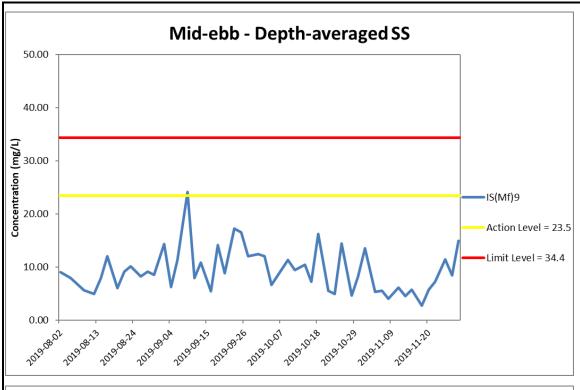


Figure J40 Impact Monitoring – Mean Depth-averaged Level of Suspended Solids (mg/L) between 1 August 2019 and 30 November 2019 at IS(Mf)16. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine works included: Seawall Modification Works at Portion S-B (1/8/2019 – 30/11/2019).





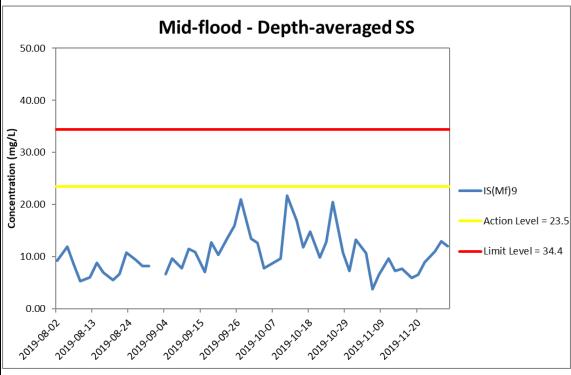
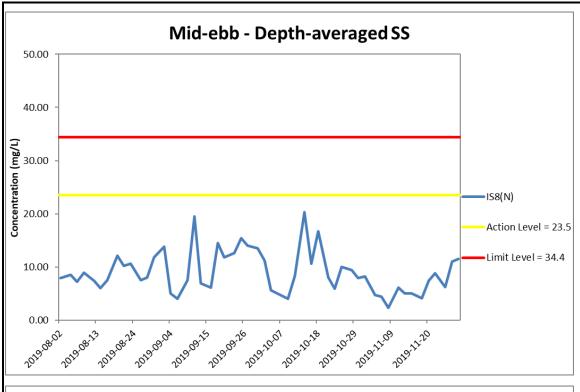


Figure J41 Impact Monitoring – Mean Depth-averaged Level of Suspended Solids (mg/L) between 1 August 2019 and 30 November 2019 at IS(Mf)9. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine works included: Seawall Modification Works at Portion S-B (1/8/2019 – 30/11/2019).





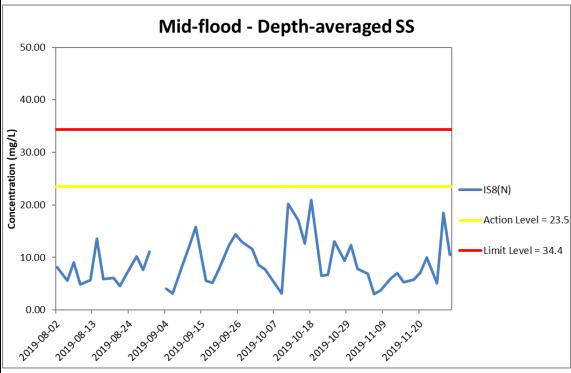
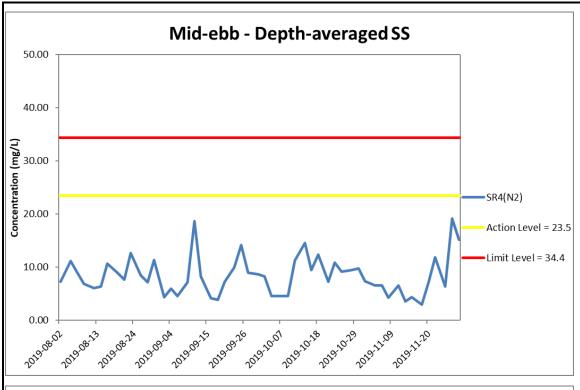


Figure J42 Impact Monitoring – Mean Depth-averaged Level of Suspended Solids (mg/L) between 1 August 2019 and 30 November 2019 at IS8(N). The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine works included: Seawall Modification Works at Portion S-B (1/8/2019 – 30/11/2019).





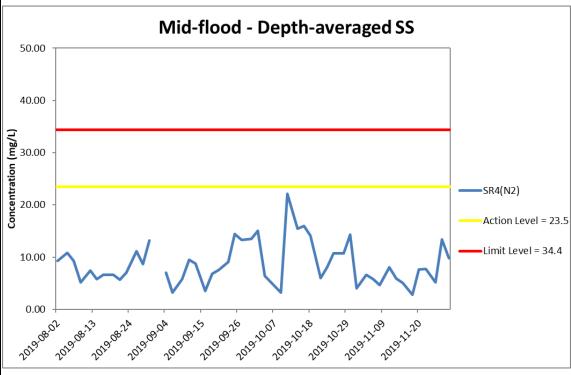
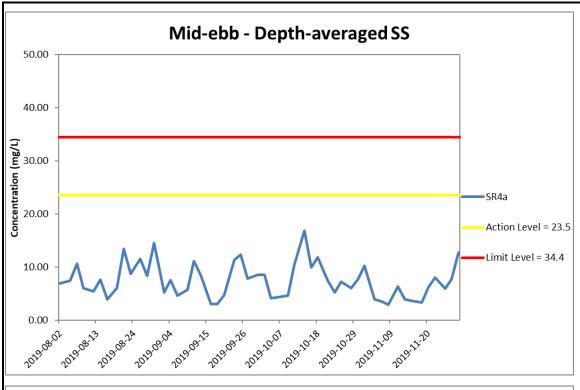


Figure J43 Impact Monitoring – Mean Depth-averaged Level of Suspended Solids (mg/L) between 1 August 2019 and 30 November 2019 at SR4(N2). The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine works included: Seawall Modification Works at Portion S-B (1/8/2019 – 30/11/2019).





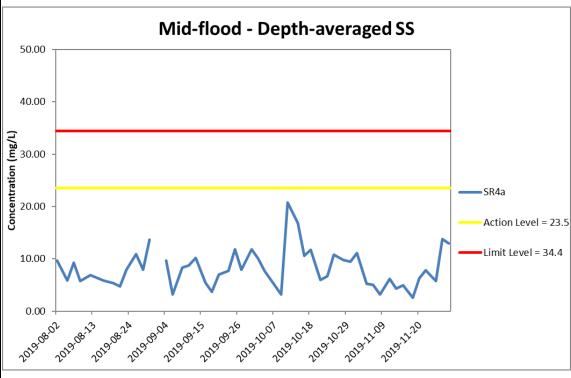


Figure J44 Impact Monitoring – Mean Depth-averaged Level of Suspended Solids (mg/L) between 1 August 2019 and 30 November 2019 at SR4a. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine works included: Seawall Modification Works at Portion S-B (1/8/2019 – 30/11/2019).



Draigat	Contract	Data	Tido	Stat	Weether	Sea	Time	Water	Lovel	Lay Cad	Banliagta	Tomn(°C)	T	Solinity/pnt)	DO(ma/L)	Turkidity/NITU	SS(ma/l.)
Project	Contract	Date	Tide	Stat	Weather	Condition	Time	Depth	Level	Lev_Cod	Replicate	Temp(°C)	рН	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	CS(Mf)5	Sunny	Moderate	16:08	12.1	Surface	1	1	26.8	8.1	32.1	5.6	4.2	6.8
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	CS(Mf)5	Sunny	Moderate	16:08	12.1	Surface	1	2	26.8	8.1	32.1	5.6	4	6.4
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	CS(Mf)5	Sunny	Moderate	16:08	12.1	Middle	2	1	26.7	8.1	32.5	5.5	5.7	6.6
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	CS(Mf)5	Sunny	Moderate	16:08	12.1	Middle	2	2	26.7	8.1	32.4	5.4	5.5	6.4
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	CS(Mf)5	Sunny	Moderate	16:08	12.1	Bottom	3	1	26.7	8.1	32.6	5.5	6.7	7.4
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	CS(Mf)5	Sunny	Moderate	16:08	12.1	Bottom	3	2	26.7	8.1	32.6	5.5	6.6	7.5
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	CS(Mf)3(N)	Sunny	Moderate		7.3	Surface	1	1	26.6	8.1	30.5	6.1	4.9	8.2
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	CS(Mf)3(N)	Sunny	Moderate		7.3	Surface	1	2		8.2	30.3	6.1	4.2	8.1
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	CS(Mf)3(N)	Sunny	Moderate	_	7.3	Middle	2	1	26.3	8.1	31.6	6.2	9.3	9.7
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	CS(Mf)3(N)	Sunny	Moderate		7.3	Middle	2	2	26.4	8.2	31.4	6.1	8.5	8.6
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	CS(Mf)3(N)	Sunny	Moderate		7.3	Bottom	3	1	26.3		31.8	6.3	10.9	12.4
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	CS(Mf)3(N)	Sunny	Moderate		7.3	Bottom	3	2	26.3	8.2	31.8	6.2	10.9	11.7
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	IS(Mf)16	Sunny	Calm	_	5.7	Surface	1	1	26.6	8.1	31.6	6	8.6	23.1
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	IS(Mf)16	Sunny	Calm		5.7	Surface	1	2	26.7	8.2	31.6	6	8.6	23.3
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	IS(Mf)16	Sunny	Calm	_	5.7	Middle	2	1						
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	IS(Mf)16	Sunny	Calm		5.7	Middle	2	2		<u> </u>				
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	IS(Mf)16	Sunny	Calm		5.7	Bottom	3	1	26.4		31.6	6.1	9.7	26.1
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	IS(Mf)16	Sunny	Calm		5.7	Bottom	3	2	26.4	8.2	31.6	<u> 6</u>	9.7	26.5
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	SR4a	Sunny	Calm		4.8	Surface	1	1	26.6	8.1	31.5	5.9	6.4	11.5
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	SR4a	Sunny	Calm		4.8	Surface	1	2	26.6	8.2	31.5	5.9	5.9	11.7
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	SR4a	Sunny	Calm		4.8	Middle	2	1						
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	SR4a	Sunny	Calm	14:28	4.8	Middle	2	2						
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	SR4a	Sunny	Calm		4.8	Bottom	3	1	26.6	8.1	31.5	6.1	8.8	8.6
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	SR4a	Sunny	Calm	14:28	4.8	Bottom	3	2		8.2	31.5	5.9	8.5	9
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	SR4(N2)	Sunny	Calm		3.1	Surface	1	1	26.8	8.1	31.4	6	4.9	5.3
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	SR4(N2)	Sunny	Calm		3.1	Surface	1	2	26.8	8.2	31.4	6	4.8	5.9
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	SR4(N2)	Sunny	Calm	14:24	3.1	Middle	2	1						
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	SR4(N2)	Sunny	Calm	14:24	3.1	Middle	2	2		\perp				
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	SR4(N2)	Sunny	Calm	14:24	3.1	Bottom	3	1	26.7		31.5	6.1	5.1	9
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	SR4(N2)	Sunny	Calm	14:24	3.1	Bottom	3	2	26.7	8.2	31.4	6.1	5.1	9.5
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	IS8(N)	Sunny	Calm		3.9	Surface	1	1	26.6	8.1	31.4	6	11.8	6.5
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	IS8(N)	Sunny	Calm		3.9	Surface	1	2	26.6	8.2	31.4	5.9	11.5	6.8
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	IS8(N)	Sunny	Calm		3.9	Middle	2	1						
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	IS8(N)	Sunny	Calm		3.9	Middle	2	2						
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	IS8(N)	Sunny	Calm	14:20	3.9	Bottom	3	1	26.6	8.1	31.4	6	12.1	9.4
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	IS8(N)	Sunny	Calm		3.9	Bottom	3	2		8.2	31.4	6	12.2	10.2
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	IS(Mf)9	Sunny	Calm	14:14	3	Surface	1	1	26.4	8.1	31.5	6	11.9	12.9
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	IS(Mf)9	Sunny	Calm	14:14	3	Surface	1	2	26.4	8.2	31.4	6	11.4	12.1
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	IS(Mf)9	Sunny	Calm	14:14	3	Middle	2	1						
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	IS(Mf)9	Sunny	Calm	14:14	3	Middle	2	2						
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	IS(Mf)9	Sunny	Calm	14:14	3	Bottom	3	1	26.3	8.1	31.5	6.1	12.7	14.9
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	IS(Mf)9	Sunny	Calm		3	Bottom	3	2			31.5	6.1	12.5	14.2
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	IS(Mf)11	Sunny	Moderate		11.5	Surface	1	1	26.5	8.1	31.6	6.1	7	11
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	IS(Mf)11	Sunny	Moderate		11.5	Surface	1	2			31.6	6.1	5.6	10.6
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	IS(Mf)11	Sunny	Moderate	14:52	11.5	Middle	2	1	26.2		31.6	5.8	11.7	11.3
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	IS(Mf)11	Sunny	Moderate		11.5	Middle	2	2			31.6	5.8	10.6	11.4
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	IS(Mf)11	Sunny	Moderate		11.5	Bottom	3	1	26.2		31.6	<u> 6</u>	12.8	11.8
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	IS(Mf)11	Sunny	Moderate		11.5	Bottom	3	2			31.6	5.9	13.4	11.7
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	SR7	Sunny	Calm		5.2	Surface	1	1	26.7		31.8	6	5.7	10
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	SR7	Sunny	Calm	_	5.2	Surface	1	2	26.7	8.2	31.7	6	5.1	9.8
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	SR7	Sunny	Calm	_	5.2	Middle	2	1						
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	SR7	Sunny	Calm	_	5.2	Middle	2	2		1				
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	SR7	Sunny	Calm		5.2	Bottom	3	1	26.4		31.8	6.1	9.1	10.6
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	SR7	Sunny	Calm		5.2	Bottom	3	12			31.8	<u> 6</u>	9.1	10.3
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	IS17	Sunny	Moderate	14:44	10.1	Surface	1	11	26.8	8.1	31.8	5.9	4.2	5.1
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	IS17	Sunny	Moderate	14:44	10.1	Surface	1	2		8.2	31.8	5.9	4.1	5.8
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	IS17	Sunny	Moderate	14:44	10.1	Middle	2	<u> 1</u>	26.4	8.1	31.7	5.9	5.7	6.4
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	IS17	Sunny	Moderate	14:44	10.1	Middle	2	2	26.4	8.2	31.7	5.9	5.5	7.1
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	IS17	Sunny	Moderate	14:44	10.1	Bottom	[3	<u> </u> 1	26.4	8.1	31.7	6.1	5.9	7.6
			 	1		1			1_	_	1_	T		T			
TMCLKL	HY/2012/08 HY/2012/08	2019-11-01	Mid-Ebb Mid-Flood	IS17 CS(Mf)5	Sunny Fine	Moderate Moderate	_	10.1 12	Bottom Surface	3	2	26.4 26.3	8.2 8.2	31.7	6.1 5.8	5.9 5.2	8.1 7.7

Project	Contract	Date	Tide	Stat	Weather	Sea	Time	Water	Level	Lev_Cod	Replicate	Temp(°C)	рН	Salinity/nnt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)
Fioject	Contract	Date	Tiue	Stat	vveatrier	Condition		Depth	LEVEI	Lev_Cou	Replicate	Temp(C)	PII	Salinity(ppt)	DO(mg/L)	Turbiuity(NTO)	33(IIIg/L)
TMCLKL	HY/2012/08	2019-11-01	Mid-Flood	CS(Mf)5	Fine	Moderate	09:14	12	Surface	1	2	26.3	8	31.8	5.8	5.1	7.9
TMCLKL	HY/2012/08	2019-11-01	Mid-Flood	CS(Mf)5	Fine	Moderate		12	Middle	2	1	26.3	8.1	31.8	5.8	10.4	7.4
TMCLKL	HY/2012/08	2019-11-01	Mid-Flood	CS(Mf)5	Fine	Moderate		12	Middle	2	2	26.3	8	31.8	5.8	10.5	7.8
TMCLKL	HY/2012/08	2019-11-01	Mid-Flood	CS(Mf)5	Fine	Moderate	09:14	12	Bottom	3	1	26.3	8.1	31.8	5.8	10.3	7.3
TMCLKL	HY/2012/08	2019-11-01	Mid-Flood	CS(Mf)5	Fine	Moderate	09:14	12	Bottom	3	2	26.3	8	31.8	5.8	10.7	7.9
TMCLKL	HY/2012/08	2019-11-01	Mid-Flood	\ / \ /	Fine	Moderate	10:07	7.1	Surface	1	1	26.3	8.2	30.6	6	5.3	7.4
TMCLKL	HY/2012/08	2019-11-01	Mid-Flood		Fine	Moderate		7.1	Surface	1	2	26.3	8.1	30.6	6	5.3	7.1
TMCLKL	HY/2012/08	2019-11-01	Mid-Flood	\ / \ /	Fine	Moderate	10:07	7.1	Middle	2	1	26.1	8.2	30.8	6.1	8.2	7
TMCLKL	HY/2012/08	2019-11-01	Mid-Flood		Fine	Moderate		7.1	Middle	2	2	26.2	8.1	30.8	6.1	7.5	7.3
TMCLKL	HY/2012/08	2019-11-01	Mid-Flood	\ / \ /	Fine	Moderate		7.1	Bottom	3	1	26.1	8.2	30.9	6.1	11	7.5
TMCLKL	HY/2012/08	2019-11-01	Mid-Flood		Fine	Moderate		7.1	Bottom	3	2	26.1	8.1	30.9	6.1	10.8	7.2
TMCLKL	HY/2012/08	2019-11-01	Mid-Flood	IS(Mf)16	Fine	Calm		5.5	Surface	1	1	26.3	8.2	31.6	5.9	15	19.6
TMCLKL	HY/2012/08	2019-11-01	Mid-Flood	IS(Mf)16	Fine	Calm	10:55	5.5	Surface	1	2	26.3	8.1	31.6	5.8	14.8	19.9
TMCLKL	HY/2012/08	2019-11-01	Mid-Flood	IS(Mf)16	Fine	Calm		5.5	Middle	2	12	-	1				
TMCLKL	HY/2012/08	2019-11-01	Mid-Flood	IS(Mf)16	Fine	Calm	10:55	5.5	Middle	2	2	00.0		04.0		45.0	
TMCLKL	HY/2012/08	2019-11-01	Mid-Flood	IS(Mf)16	Fine	Calm		5.5	Bottom	3	11	26.3	8.2	31.6	6	15.2	24.4
TMCLKL	HY/2012/08	2019-11-01	Mid-Flood	IS(Mf)16	Fine	Calm		5.5	Bottom	3	2	26.3	8.1	31.6	6	15.5	24.2
TMCLKL	HY/2012/08	2019-11-01	Mid-Flood	SR4a	Fine	Calm		4.9	Surface	11	17	26.3	8.2	31.5	5.7	6.9	10.6
TMCLKL	HY/2012/08	2019-11-01	Mid-Flood	SR4a	Fine	Calm		4.9	Surface	1	2	26.3	8.1	31.5	5.7	6.6	11.1
TMCLKL	HY/2012/08	2019-11-01	Mid-Flood	SR4a	Fine	Calm		4.9	Middle	2	1	-	1				
TMCLKL	HY/2012/08	2019-11-01	Mid-Flood	SR4a	Fine	Calm		4.9	Middle	2	2			0.4.0			
TMCLKL	HY/2012/08	2019-11-01	Mid-Flood	SR4a	Fine	Calm	11:05	4.9	Bottom	3	1	26.3	8.1	31.6	5.9	7.5	11.5
TMCLKL	HY/2012/08	2019-11-01	Mid-Flood	SR4a	Fine	Calm		4.9	Bottom	3	2	26.4	8.1	31.6	5.9	7.4	11.2
TMCLKL	HY/2012/08	2019-11-01	Mid-Flood	SR4(N2)	Fine	Calm		3.1	Surface	1	1	26.3	8.2	31.4	6	5.9	3.7
TMCLKL	HY/2012/08	2019-11-01	Mid-Flood	SR4(N2)	Fine	Calm		3.1	Surface	1	2	26.3	8.1	31.4	6	6	3.7
TMCLKL	HY/2012/08	2019-11-01	Mid-Flood	SR4(N2)	Fine	Calm		3.1	Middle	2	1	-	1				
TMCLKL	HY/2012/08	2019-11-01	Mid-Flood	SR4(N2)	Fine	Calm		3.1	Middle	2	2	00.4		04.0	0.4	10.0	1.0
TMCLKL	HY/2012/08	2019-11-01	Mid-Flood	SR4(N2)	Fine	Calm		3.1	Bottom	3	1	26.4	8.2	31.3	6.1	12.6	4.2
TMCLKL	HY/2012/08	2019-11-01	Mid-Flood	SR4(N2)	Fine	Calm		3.1	Bottom	3	2	26.4	8.1	31.3	6.1	12.9	4.4
TMCLKL	HY/2012/08	2019-11-01	Mid-Flood	IS8(N)	Fine	Calm		4.1	Surface	1	1	26.3	8.2	31.6	6.1	8.5	7.9
TMCLKL	HY/2012/08	2019-11-01	Mid-Flood	IS8(N)	Fine	Calm	11:15	4.1	Surface	1	2	26.3	8.1	31.6	Ь	8.2	7.4
TMCLKL	HY/2012/08	2019-11-01	Mid-Flood	IS8(N)	Fine	Calm	11:15	4.1	Middle	2	1	1					
TMCLKL	HY/2012/08	2019-11-01	Mid-Flood	IS8(N)	Fine	Calm	11:15	4.1	Middle	2	2	20.2	0.0	24.0	0.0	0.7	0.0
TMCLKL	HY/2012/08	2019-11-01	Mid-Flood	IS8(N)	Fine	Calm		4.1	Bottom	3	1	26.3	8.2	31.6	6.2	8.7	8.3
TMCLKL	HY/2012/08	2019-11-01	Mid-Flood	IS8(N)	Fine	Calm		4.1	Bottom	3	4	26.3	8.2	31.6	6.2	8.8	7.9
TMCLKL	HY/2012/08	2019-11-01	Mid-Flood	IS(Mf)9	Fine	Calm		3.2	Surface	1	1	26.3	8.2	31.6	5.9	15.4	12.9
TMCLKL	HY/2012/08	2019-11-01	Mid-Flood Mid-Flood	IS(Mf)9 IS(Mf)9	Fine	Calm Calm		3.2	Surface Middle	11	1	26.3	0.1	31.6	5.9	14.7	13.3
TMCLKL	HY/2012/08	2019-11-01		- 	Fine	Calm			Middle	2	12	+	1		+		+
TMCLKL TMCLKL	HY/2012/08 HY/2012/08	2019-11-01	Mid-Flood Mid-Flood	IS(Mf)9 IS(Mf)9	Fine Fine	Calm		3.2	Bottom	2	1	26.3	8.2	31.7	6.1	18.5	13.1
		2019-11-01				Calm		3.2		3	12	26.3	8.1	31.7	6.1	18.4	13.7
TMCLKL TMCLKL	HY/2012/08 HY/2012/08	2019-11-01 2019-11-01	Mid-Flood Mid-Flood	IS(Mf)9 IS(Mf)11	Fine Fine	Moderate		11.3	Bottom Surface	3	1	26.2	8.2	31.6	5.9	9.9	10.1
TMCLKL	HY/2012/08	2019-11-01	Mid-Flood	IS(Mf)11	Fine	Moderate	10:38	11.3	Surface	11	2	26.2	8.1	31.6	5.9	0	10.1
TMCLKL	HY/2012/08	2019-11-01	Mid-Flood	IS(Mf)11	Fine	Moderate	10:38	11.3	Middle	2	1	26.2	8.2	31.6	5.9	12.8	11.5
TMCLKL	HY/2012/08	2019-11-01	Mid-Flood	IS(Mf)11	Fine	Moderate	10:38	11.3	Middle	2	2	26.1	8.1	31.6	5.9	12.7	11.7
TMCLKL	HY/2012/08	2019-11-01	Mid-Flood	IS(Mf)11	Fine	Moderate	10:38	11.3	Bottom	3	1	26.1	8.2	31.6	6	15.8	11.4
TMCLKL	HY/2012/08	2019-11-01	Mid-Flood	IS(Mf)11	Fine	Moderate	10:38	11.3	Bottom	3	2	26.1	8.1	31.6	6	15.7	11.6
TMCLKL	HY/2012/08	2019-11-01	Mid-Flood	SR7	Fine	Calm		4.2	Surface	1	1	26.1	8.2	31.6	6.2	10	9.6
TMCLKL	HY/2012/08	2019-11-01	Mid-Flood	SR7	Fine	Calm		4.2	Surface	11	2	26.1	8.1	31.6	6.1	9.9	9.9
TMCLKL	HY/2012/08	2019-11-01	Mid-Flood	SR7	Fine	Calm		4.2	Middle	2	1	20.1	0.1	31.0	0.1	3.3	3.3
TMCLKL	HY/2012/08	2019-11-01	Mid-Flood	SR7	Fine	Calm		4.2	Middle	2	2	1		1	+		+
TMCLKL	HY/2012/08	2019-11-01	Mid-Flood	SR7	Fine	Calm		4.2	Bottom	3	1	26	8.1	31.7	6.3	9.9	10.9
TMCLKL	HY/2012/08	2019-11-01	Mid-Flood	SR7	Fine	Calm	09:40	4.2	Bottom	3	2	26.1	8.1	31.6	6.2	10.3	10.9
TMCLKL	HY/2012/08	2019-11-01	Mid-Flood	IS17	Fine	Moderate		9.8	Surface	1	1	26.2	8.2	31.7	5.9	5	6.4
TMCLKL	HY/2012/08	2019-11-01	Mid-Flood	IS17	Fine	Moderate		9.8	Surface	11	2	26.2	8.1	31.7	5.9	5	6.3
TMCLKL	HY/2012/08	2019-11-01	Mid-Flood	IS17	Fine	Moderate		9.8	Middle	2	1	26.1	8.2	31.7	6	5.1	7.7
TMCLKL	HY/2012/08	2019-11-01	Mid-Flood	IS17	Fine	Moderate		9.8	Middle	2	2	26.1	8.1	31.7	6	5	7.4
TMCLKL	HY/2012/08	2019-11-01	Mid-Flood	IS17	Fine	Moderate	_	9.8	Bottom	3	1	26.1	8.2	31.7	6.2	6.2	9.6
	HY/2012/08	2019-11-01	Mid-Flood	IS17	Fine	Moderate		9.8	Bottom	3	2	26.1	8.1	31.7	6.1	6.4	9.0
TMCLKL	HY/2012/08	2019-11-01	Mid-Flood	CS(Mf)5	Cloudy	Rough		12.7	Surface	1	1	26.4		31.2	6.1	1.7	4.6
	HY/2012/08	2019-11-04	Mid-Ebb		Cloudy	Rough	04:43	12.7	Surface	11	2	26.4		30.3	6.2	1.8	4.8
LIVIOLNL	111/2012/00	12013-11-04	IIVIIU-LUU		Joioudy	Intough	04.43	14.1	Journace	11	14	120.4	ľ	انان.ا	0.2	11.0	<u> </u> +.0

			T	<u></u>	l	Sea	L.	Water	Ī	I	L	_ (0.0)	Τ				
Project	Contract	Date	Tide	Stat	Weather	Condition	Time	Depth	Level	Lev_Cod	Replicate	Temp(°C)	рН	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)
TMCLKL	HY/2012/08	2019-11-04	Mid-Ebb	CS(Mf)5	Cloudy	Rough	04:43	12.7	Middle	2	1	26.4	8	31.2	6	1.9	5
TMCLKL	HY/2012/08	2019-11-04	Mid-Ebb	CS(Mf)5	Cloudy	Rough	04:43	12.7	Middle	2	2	26.5	8	30.5	6	2	5.6
TMCLKL	HY/2012/08	2019-11-04	Mid-Ebb	CS(Mf)5	Cloudy	Rough	04:43	12.7	Bottom	3	1	26.7	8	32.7	5.4	3.1	6.1
TMCLKL	HY/2012/08	2019-11-04	Mid-Ebb	CS(Mf)5	Cloudy	Rough	04:43	12.7	Bottom	3	2	26.7	8	31.7	5.5	2.9	6.7
TMCLKL	HY/2012/08	2019-11-04	Mid-Ebb	CS(Mf)3(N)	Cloudy	Rough	05:54	7.4	Surface	1	1	26	8.1	29.2	6.5	2.8	5.1
TMCLKL	HY/2012/08	2019-11-04	Mid-Ebb	CS(Mf)3(N)	Cloudy	Rough	05:54	7.4	Surface	1	2	26	8	28.3	6.4	3.1	5
TMCLKL	HY/2012/08	2019-11-04	Mid-Ebb	CS(Mf)3(N)	Cloudy	Rough	05:54	7.4	Middle	2	1	26	8.1	29.3	6.5	2.8	4.8
TMCLKL	HY/2012/08	2019-11-04	Mid-Ebb	CS(Mf)3(N)	Cloudy	Rough	05:54	7.4	Middle	2	2	26	8	28.4	6.4	3	4.7
TMCLKL	HY/2012/08	2019-11-04	Mid-Ebb	CS(Mf)3(N)	Cloudy	Rough	_	7.4	Bottom	3	1	26.1	8	29.8	6.4	3.5	4.9
TMCLKL	HY/2012/08	2019-11-04	Mid-Ebb	CS(Mf)3(N)	Cloudy	Rough		7.4	Bottom	3	2	26.1	8	28.9	6.4	3.3	4.7
TMCLKL	HY/2012/08	2019-11-04	Mid-Ebb	IS(Mf)16	Cloudy	Moderate		5.7	Surface	1	1	26.3	8.1	31.2	6.4	3.5	5.7
TMCLKL	HY/2012/08	2019-11-04	Mid-Ebb	IS(Mf)16	Cloudy	Moderate		5.7	Surface	1	2	26.3	8.1	30.3	6.3	3.6	5.2
TMCLKL	HY/2012/08	2019-11-04	Mid-Ebb	IS(Mf)16	Cloudy	Moderate	_	5.7	Middle	2	1		1				
TMCLKL	HY/2012/08	2019-11-04	Mid-Ebb	IS(Mf)16	Cloudy	Moderate		5.7	Middle	2	2		1				
TMCLKL	HY/2012/08	2019-11-04	Mid-Ebb	IS(Mf)16	Cloudy	Moderate	_	5.7	Bottom	3	1	26.4	8.1	31.3	6.5	4.4	7
TMCLKL	HY/2012/08	2019-11-04	Mid-Ebb	IS(Mf)16	Cloudy	Moderate		5.7	Bottom	3	2	26.4	8.1	30.3	6.5	4.6	7.2
TMCLKL	HY/2012/08	2019-11-04	Mid-Ebb	SR4a	Cloudy	Moderate		4.5	Surface	1	1	25.9	8.1	30.3	6.4	2.4	4.4
TMCLKL	HY/2012/08	2019-11-04	Mid-Ebb	SR4a	Cloudy	Moderate		4.5	Surface	1	2	25.9	8.1	29.4	6.3	2.4	3.7
TMCLKL	HY/2012/08	2019-11-04	Mid-Ebb	SR4a	Cloudy	Moderate		4.5	Middle	2	1		_		<u> </u>		
TMCLKL	HY/2012/08	2019-11-04	Mid-Ebb	SR4a	Cloudy	Moderate		4.5	Middle	2	2	100			<u> </u>		1
TMCLKL	HY/2012/08	2019-11-04	Mid-Ebb	SR4a	Cloudy	Moderate		4.5	Bottom	3	1	26.3	8.1	30.7	6.4	2.8	3.6
TMCLKL	HY/2012/08	2019-11-04	Mid-Ebb	SR4a	Cloudy	Moderate	06:49	4.5	Bottom	3	2	26.2	8.1	29.7	6.4	3	4.2
TMCLKL	HY/2012/08	2019-11-04	Mid-Ebb	SR4(N2)	Cloudy	Moderate		4.1	Surface	1	1	26.1	8.1	30.5	6.4	5.3	4.6
TMCLKL	HY/2012/08	2019-11-04	Mid-Ebb	SR4(N2)	Cloudy	Moderate	06:54	4.1	Surface	1	2	26.1	8.1	29.6	6.4	5.3	5.3
TMCLKL	HY/2012/08	2019-11-04	Mid-Ebb	SR4(N2)	Cloudy	Moderate		4.1	Middle	2	1		1				
TMCLKL	HY/2012/08	2019-11-04	Mid-Ebb	SR4(N2)	Cloudy	Moderate		4.1	Middle	2	2		ļ.,				
TMCLKL	HY/2012/08	2019-11-04	Mid-Ebb	SR4(N2)	Cloudy	Moderate		4.1	Bottom	3	1	26.2	8.1	30.6	6.5	4.9	8
TMCLKL	HY/2012/08	2019-11-04	Mid-Ebb	SR4(N2)	Cloudy	Moderate		4.1	Bottom	3	2	26.2	8.1	29.7	6.5	4.9	8.4
TMCLKL	HY/2012/08	2019-11-04	Mid-Ebb	IS8(N)	Cloudy	Moderate		3.9	Surface	1	1	25.8	8.2	30.3	6.6	2.3	4.7
TMCLKL	HY/2012/08	2019-11-04	Mid-Ebb	IS8(N)	Cloudy	Moderate		3.9	Surface	1	2	25.8	8.1	29.3	6.5	2.4	4.4
TMCLKL	HY/2012/08	2019-11-04	Mid-Ebb	IS8(N)	Cloudy	Moderate		3.9	Middle	2	1		<u> </u>				+
TMCLKL	HY/2012/08	2019-11-04	Mid-Ebb	IS8(N)	Cloudy	Moderate		3.9	Middle	2	2	00.0		00.0	0.0	15.0	110
TMCLKL	HY/2012/08	2019-11-04	Mid-Ebb	IS8(N)	Cloudy	Moderate	_	3.9	Bottom	3	1	26.2	8.2	30.8	6.8	5.2	4.6
TMCLKL	HY/2012/08	2019-11-04	Mid-Ebb	IS8(N)	Cloudy	Moderate		3.9	Bottom	3	2	26.1	8.1	29.9	6.8	5.1	5
TMCLKL	HY/2012/08	2019-11-04	Mid-Ebb	IS(Mf)9	Cloudy	Moderate		3.2	Surface	1	1	26.1	8.1	31	6.6	2.6	4.8
TMCLKL	HY/2012/08	2019-11-04	Mid-Ebb	IS(Mf)9	Cloudy	Moderate		3.2	Surface	1	2	26.1	8.1	30.1	6.6	2.4	5.1
TMCLKL	HY/2012/08	2019-11-04	Mid-Ebb	IS(Mf)9	Cloudy	Moderate		3.2	Middle	2	1		1				
TMCLKL	HY/2012/08	2019-11-04	Mid-Ebb	IS(Mf)9	Cloudy	Moderate		3.2	Middle	2	2	00.4	0.4	24.4	0.0	0.7	
TMCLKL	HY/2012/08	2019-11-04	Mid-Ebb	IS(Mf)9	Cloudy	Moderate		3.2	Bottom	3	1	26.1	8.1	31.1	6.8	2.7	b
TMCLKL	HY/2012/08	2019-11-04	Mid-Ebb	IS(Mf)9	Cloudy	Moderate		3.2	Bottom	3	4	26	8.1	30.1	6.7	2.9	5.5
TMCLKL	HY/2012/08	2019-11-04	Mid-Ebb	IS(Mf)11	Cloudy	Rough	06:22	10.8	Surface	1	1	25.9	8.1	29.2	6.3	2.3	4.5
TMCLKL	HY/2012/08	2019-11-04	Mid-Ebb Mid-Ebb	IS(Mf)11	Cloudy	Rough	06:22 06:22	10.8	Surface	2	1	25.9 26.3	8.1	28.3 29.8	6.3	2.4	4.4
TMCLKL TMCLKL	HY/2012/08 HY/2012/08	2019-11-04 2019-11-04	Mid-Ebb	IS(Mf)11 IS(Mf)11	Cloudy Cloudy	Rough Rough	06:22	10.8	Middle Middle	2	2	26.3	8.1	28.9	6.2 6.2	2.0	4.9 5.3
TMCLKL	HY/2012/08 HY/2012/08	2019-11-04	Mid-Ebb	IS(Mf)11	Cloudy	Rough	06:22	10.8	Bottom	3	1	26.5	8.1	31.3	5.8	3.2	5.5
TMCLKL	HY/2012/08	2019-11-04	Mid-Ebb	IS(Mf)11	Cloudy	Rough	06:22	10.8	Bottom	3	2	26.5	8	30.5	5.7	3.6	4.9
TMCLKL	HY/2012/08	2019-11-04	Mid-Ebb	SR7	Cloudy	Moderate		4.8	Surface	1	1	25.9	8	29.8	6.2	2	3.2
TMCLKL	HY/2012/08	2019-11-04	Mid-Ebb	SR7	Cloudy	Moderate		4.8	Surface	1	2	25.9	8	28.9	6.4	2.1	2.6
TMCLKL	HY/2012/08	2019-11-04	Mid-Ebb	SR7	Cloudy	Moderate		4.8	Middle	2	1	20.3		20.0	0.7	 	2.0
TMCLKL	HY/2012/08	2019-11-04	Mid-Ebb	SR7	Cloudy	Moderate		4.8	Middle	2	2	+			+		+
TMCLKL	HY/2012/08	2019-11-04	Mid-Ebb	SR7	Cloudy	Moderate		4.8	Bottom	3	1	26.1	8	30	6.2	2.1	3.5
TMCLKL	HY/2012/08	2019-11-04	Mid-Ebb	SR7	Cloudy	Moderate		4.8	Bottom	3	2	26.1	8	29.2	6.4	2.2	3.8
TMCLKL	HY/2012/08	2019-11-04	Mid-Ebb	IS17	Cloudy	Moderate	06:30	7.5	Surface	1	1	26.3	8.1	30.1	6.2	2.8	4.1
TMCLKL	HY/2012/08	2019-11-04	Mid-Ebb	IS17	Cloudy	Moderate	06:30	7.5	Surface	1	2	26.3	8.1	29.2	6.2	3	3.9
TMCLKL	HY/2012/08	2019-11-04	Mid-Ebb	IS17	Cloudy	Moderate		7.5	Middle	2	1	26.4	8.1	30.5	6.3	2.9	4.3
TMCLKL	HY/2012/08	2019-11-04	Mid-Ebb	IS17	Cloudy	Moderate	_	7.5	Middle	2	2	26.3	8.1	29.6	6.2	3.1	4.9
TMCLKL	HY/2012/08	2019-11-04	Mid-Ebb	IS17	Cloudy	Moderate		7.5	Bottom	3	1	26.3	8.1	30.7	6.4	3	6.6
TMCLKL	HY/2012/08	2019-11-04	Mid-Ebb	IS17	Cloudy	Moderate	06:30	7.5	Bottom	3	2	26.3	8.1	29.8	6.4	3.4	6.2
	HY/2012/08	2019-11-04	Mid-Ebb Mid-Flood	CS(Mf)5	Cloudy	Moderate		12.9	Surface	1	1	26.3	8.2	32	6	2.1	4.7
TMCLKL	HY/2012/08	2019-11-04	Mid-Flood	CS(Mf)5	Cloudy	Moderate	18:50	12.9	Surface	1	2	26.3		31	6	2.3	4.5
	HY/2012/08	2019-11-04	Mid-Flood		Cloudy	Moderate	18:50		Middle	2	1	26.6	-	33	5.5	2.9	5.5
LIVIOLIVE	111/2012/00	12010-11-04	IIVIIU-I IUUU		Joioday	Innonciale	10.00	12.3	Imidule	14	<u> ' </u>	120.0	JU.Z	100	JU.U	<u> </u> ∠.∪	JU.U

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Project	Contract	Date	Tide	Stat	Weather	Condition	Time	Depth	Level	Lev_Cod	Replicate	Temp(°C)	рН	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)
TMCLKL	HY/2012/08	2019-11-04	Mid-Flood	CS(Mf)5	Cloudy	Moderate	18:50	12.9	Middle	2	2	26.6	8.1	32	5.4	2.6	5.2
	HY/2012/08	2019-11-04	Mid-Flood	CS(Mf)5	Cloudy	Moderate	18:50	12.9	Bottom	3	1	26.6	8.1	33.1	5.6	5.3	5.9
	HY/2012/08	2019-11-04	Mid-Flood	CS(Mf)5	Cloudy	Moderate	18:50	12.9	Bottom	3	2	26.6	8.1	32.1	5.6	5.3	6.5
TMCLKL	HY/2012/08	2019-11-04	Mid-Flood	CS(Mf)3(N)	Cloudy	Rough	17:52	7.5	Surface	1	1	26.2	8.2	30	7	3.5	6
	HY/2012/08	2019-11-04	Mid-Flood	CS(Mf)3(N)	Cloudy	Rough		7.5	Surface	1	2	26.2	8.2	29.1	7	3.9	6.6
TMCLKL	HY/2012/08	2019-11-04	Mid-Flood	CS(Mf)3(N)	Cloudy	Rough	17:52	7.5	Middle	2	1	26.2	8.2	30.1	6.9	3.7	6.9
TMCLKL	HY/2012/08	2019-11-04	Mid-Flood	CS(Mf)3(N)	Cloudy	Rough	17:52	7.5	Middle	2	2	26.2	8.1	29.2	6.9	4	6.4
TMCLKL	HY/2012/08	2019-11-04	Mid-Flood	CS(Mf)3(N)	Cloudy	Rough	17:52	7.5	Bottom	3	1	26.3	8.1	30.8	6.5	4.3	6.5
TMCLKL	HY/2012/08	2019-11-04	Mid-Flood	CS(Mf)3(N)	Cloudy	Rough	17:52	7.5	Bottom	3	2	26.3	8.1	29.9	6.4	4.6	6.9
TMCLKL	HY/2012/08	2019-11-04	Mid-Flood	IS(Mf)16	Cloudy	Moderate	17:11	5.6	Surface	1	1	26.3	8.2	30.1	6.9	4.6	7.1
TMCLKL	HY/2012/08	2019-11-04	Mid-Flood	IS(Mf)16	Cloudy	Moderate	17:11	5.6	Surface	1	2	26.3	8.1	29.2	6.8	5	7.4
	HY/2012/08	2019-11-04	Mid-Flood	IS(Mf)16	Cloudy	Moderate		5.6	Middle	2	1						
TMCLKL	HY/2012/08	2019-11-04	Mid-Flood	IS(Mf)16	Cloudy	Moderate		5.6	Middle	2	2						
TMCLKL	HY/2012/08	2019-11-04	Mid-Flood	IS(Mf)16	Cloudy	Moderate		5.6	Bottom	3	1	26.3	8.2	30.1	6.9	5.5	8.4
TMCLKL	HY/2012/08	2019-11-04	Mid-Flood	IS(Mf)16	Cloudy	Moderate		5.6	Bottom	3	2	26.3	8.1	29.2	6.9	5.5	8.8
	HY/2012/08	2019-11-04		SR4a	Cloudy	Calm		4.3	Surface	1	1	26.2	8.1	30.2	7.3	2.7	4.2
	HY/2012/08	2019-11-04		SR4a	Cloudy	Calm	17:01	4.3	Surface	1	2	26.2	8.1	29.2	7.2	2.8	4.7
TMCLKL	HY/2012/08	2019-11-04		SR4a	Cloudy	Calm	17:01	4.3	Middle	2	1	-			1	1	+
TMCLKL	HY/2012/08	2019-11-04	Mid-Flood	SR4a	Cloudy	Calm	17:01	4.3	Middle	2	2	00.0	10.4	00.0	7.0	0.7	
TMCLKL	HY/2012/08	2019-11-04	Mid-Flood	SR4a	Cloudy	Calm	17:01	+	Bottom	3	1	26.2	8.1	30.2	7.2	2.7	5.9
TMCLKL	HY/2012/08	2019-11-04		SR4a	Cloudy	Calm		4.3	Bottom	3	4	26.2	8.1	29.2	7.2	3	6.3
TMCLKL	HY/2012/08	2019-11-04	Mid-Flood	SR4(N2)	Cloudy	Moderate	16:56		Surface	1	1	26.3	8.2	30.2	7.3	3.6	5.9
	HY/2012/08	2019-11-04		SR4(N2)	Cloudy	Moderate	16:56	4.2	Surface	2	1	26.3	8.1	29.3	7.3	3.5	5.5
TMCLKL TMCLKL	HY/2012/08 HY/2012/08	2019-11-04 2019-11-04	Mid-Flood Mid-Flood	SR4(N2) SR4(N2)	Cloudy Cloudy	Moderate Moderate	16:56 16:56	4.2	Middle Middle	2	2		-		_		+
	HY/2012/08	2019-11-04	Mid-Flood	SR4(N2)	Cloudy	Moderate		4.2	Bottom	2	1	26.3	8.2	30.2	7.3	3	7.4
TMCLKL	HY/2012/08	2019-11-04	Mid-Flood	SR4(N2)	Cloudy	Moderate	16:56	4.2	Bottom	3	2	26.3	8.1	29.3	7.3	3.4	7.7
	HY/2012/08	2019-11-04	Mid-Flood	IS8(N)	Cloudy	Moderate		3.7	Surface	1	1	26.3	8.1	30.1	7.2	3.3	6.4
	HY/2012/08	2019-11-04	Mid-Flood	IS8(N)	Cloudy	Moderate		3.7	Surface	1	2	26.3	8.1	29.2	7.1	3.3	5.8
	HY/2012/08	2019-11-04		IS8(N)	Cloudy	Moderate		3.7	Middle	2	1	20.5	10.1	25.2	7.1	0.0	0.0
	HY/2012/08			IS8(N)	Cloudy	Moderate		3.7	Middle	2	2						
	HY/2012/08			IS8(N)	Cloudy	Moderate		3.7	Bottom	3	1	26.3	8.2	30	7.1	3.5	7.7
	HY/2012/08		Mid-Flood	IS8(N)	Cloudy	Moderate		3.7	Bottom	3	2	26.3	8.1	29.2	7.1	3.5	7.9
	HY/2012/08	2019-11-04	Mid-Flood	IS(Mf)9	Cloudy	Moderate		3.5	Surface	1	1	26.3	8.2	30	7	5.1	9.8
	HY/2012/08	2019-11-04	Mid-Flood	IS(Mf)9	Cloudy	Moderate		3.5	Surface	1	2	26.3	8.2	29.2	7	5.1	9.3
	HY/2012/08	2019-11-04	Mid-Flood	IS(Mf)9	Cloudy	Moderate		3.5	Middle	2	1						
TMCLKL	HY/2012/08	2019-11-04	Mid-Flood	IS(Mf)9	Cloudy	Moderate	16:42	3.5	Middle	2	2						
TMCLKL	HY/2012/08	2019-11-04	Mid-Flood	IS(Mf)9	Cloudy	Moderate	16:42	3.5	Bottom	3	1	26.3	8.2	30.1	6.9	6.4	12.1
TMCLKL	HY/2012/08	2019-11-04	Mid-Flood	IS(Mf)9	Cloudy	Moderate	16:42	3.5	Bottom	3	2	26.3	8.2	29.3	6.8	6.7	11.7
TMCLKL	HY/2012/08	2019-11-04	Mid-Flood	IS(Mf)11	Cloudy	Rough	17:24	11	Surface	1	1	26.3	8.1	30.4	6.6	3.9	5.8
	HY/2012/08	2019-11-04	Mid-Flood	IS(Mf)11	Cloudy	Rough	17:24	11	Surface	1	2	26.3	8.1	29.5	6.7	4.1	6.3
	HY/2012/08		Mid-Flood	IS(Mf)11	Cloudy	Rough		11	Middle	2	1	26.3	8.1	30.9	5.9	4.8	6.9
	HY/2012/08	2019-11-04	Mid-Flood	IS(Mf)11	Cloudy	Rough		11	Middle	2	2	26.3	8.1	30	5.9	5.4	6.3
	HY/2012/08	2019-11-04		IS(Mf)11	Cloudy	Rough		11	Bottom	3	1	26.5	8.1	31.8	5.8	9	6.7
	HY/2012/08	2019-11-04	Mid-Flood	IS(Mf)11	Cloudy	Rough	17:24	11	Bottom	3	2	26.5	8.1	30.9	5.7	9.1	7.1
	HY/2012/08	2019-11-04		SR7	Cloudy	Moderate	18:28	4.4	Surface	11	1	26.3	8.1	31	6.3	4.2	4.4
	HY/2012/08			SR7	Cloudy	Moderate	18:28	4.4	Surface	1	2	26.3	8.1	30.1	6.3	4.4	4.8
	HY/2012/08	2019-11-04		SR7	Cloudy	Moderate		4.4	Middle	2	1	1	+				+
	HY/2012/08			SR7	Cloudy	Moderate		4.4	Middle	2	1	26.4	0.4	24.4	6	7.5	6.4
	HY/2012/08	2019-11-04		SR7	Cloudy	Moderate		4.4	Bottom	3	2	26.4	8.1	31.4	0	7.5	6.1
	HY/2012/08	2019-11-04		SR7	Cloudy	Moderate		7.7	Bottom	1	1	26.4	8.1	30.5	7	1.6	6.3
	HY/2012/08 HY/2012/08	2019-11-04 2019-11-04		IS17 IS17	Cloudy Cloudy	Moderate Moderate		7.7	Surface Surface	1	2	26.3 26.3	8.2 8.1	30.4 29.4	7	1.6	4.1
	HY/2012/08	2019-11-04		IS17	Cloudy	Moderate	.	7.7	Middle	2	1	26.4	8.1	30.7	6.9	1.5	4.8
	HY/2012/08	2019-11-04		IS17	Cloudy	Moderate		7.7	Middle	2	2	26.3	8.1	29.7	6.8	1.7	5.2
	HY/2012/08		 	IS17	Cloudy	Moderate		7.7	Bottom	3	1	26.4	8.1	30.9	6.8	1.3	4.8
	HY/2012/08	2019-11-04	 	IS17	Cloudy	Moderate		7.7	Bottom	3	2	26.4	8.1	30	6.7	1.6	5.1
	HY/2012/08	2019-11-04	Mid-Ebb	CS(Mf)5	Cloudy	Moderate	07:25	12.3	Surface	1	1	26	8.1	32.4	6	1.9	5.2
	HY/2012/08			CS(Mf)5	Cloudy	Moderate		12.3	Surface	1	2	26	8.1	31.3	6	2.2	4.3
	HY/2012/08	2019-11-06		CS(Mf)5	Cloudy	Moderate		12.3	Middle	2	1	26.4	8.1	33.2	5.7	2.1	3.7
	HY/2012/08			CS(Mf)5	Cloudy	Moderate			Middle	2	2	26.4	8.1	32.1	5.6	2.3	4.2
LIVIOLIVE	111/2012/00	12010 II-00	IMIG EDD		Joioday	Imoderate	01.20	12.0	Imagic	1-	<u> -</u>	120.7	10.1	JUE. 1	10.0	<u> </u> ∠.∪	

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Project	Contract	Date	Tide	Stat	Weather		Time		Level	Lev_Cod	Replicate	Temp(°C)	рН	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)
7140114	L D (/0.0 4.0 /0.0	00404400		00/140-	0	Condition		Depth	D //				1	2 7			
TMCLKL	HY/2012/08	2019-11-06	Mid-Ebb	CS(Mf)5	Cloudy			12.3	Bottom	3	1	26.4	8.1	33.6	5.8	3.2	4.1
TMCLKL	HY/2012/08	2019-11-06	Mid-Ebb	CS(Mf)5	Cloudy	Moderate		12.3	Bottom	3	2	26.4	8.1	32.5	5.6	3.6	4.4
TMCLKL	HY/2012/08	2019-11-06	Mid-Ebb	CS(Mf)3(N)	Cloudy	Moderate	08:21	7	Surface	1	1	25.6	7.9	31.7	6.5	2	4.7
TMCLKL	HY/2012/08	2019-11-06	Mid-Ebb	CS(Mf)3(N)	Cloudy	Moderate	08:21	7	Surface	1	2	25.6	7.9	30.8	6.4	2.2	3.9
TMCLKL	HY/2012/08	2019-11-06	Mid-Ebb	CS(Mf)3(N)		Moderate	08:21	7	Middle	2	1	25.8	7.9	32.6	6.4	3	5.4
TMCLKL	HY/2012/08	2019-11-06	Mid-Ebb	CS(Mf)3(N)	Cloudy	Moderate	08:21	7	Middle	2	2	25.8	7.9	31.6	6.3	3.5	5
TMCLKL	HY/2012/08	2019-11-06	Mid-Ebb	CS(Mf)3(N)	Cloudy	Moderate	08:21	7	Bottom	3	1	25.8	7.9	32.9	6.6	3.8	5.3
TMCLKL	HY/2012/08	2019-11-06	Mid-Ebb	CS(Mf)3(N)	Cloudy	Moderate	08:21	7	Bottom	3	2	25.8	7.9	31.9	6.4	3.6	6.9
TMCLKL	HY/2012/08	2019-11-06	Mid-Ebb	IS(Mf)16	Cloudy	Moderate	08:58	5.3	Surface	1	1	26	8	31.8	6.2	5.4	4.4
TMCLKL	HY/2012/08	2019-11-06	Mid-Ebb	IS(Mf)16	Cloudy	Moderate		5.3	Surface	1	2	25.9	8	30.8	6.2	5.7	4.9
TMCLKL	HY/2012/08	2019-11-06	Mid-Ebb	IS(Mf)16	Cloudy	Moderate		5.3	Middle	2	1						
TMCLKL	HY/2012/08	2019-11-06	Mid-Ebb	IS(Mf)16		Moderate		5.3	Middle	2	2		1				
TMCLKL	HY/2012/08	2019-11-06	Mid-Ebb	IS(Mf)16		Moderate		5.3	Bottom	3	1	26.1	8	32.1	6.2	6.6	5.2
TMCLKL	HY/2012/08	2019-11-06	Mid-Ebb	IS(Mf)16	Cloudy	Moderate		5.3	Bottom	3	2	26.1	8	31.1	6.2	6.2	5.6
TMCLKL	HY/2012/08	2019-11-06	Mid-Ebb	SR4a		Moderate		4.6	Surface	1	1	25.9	7.9	31.4	5.9	2.6	4.2
TMCLKL	HY/2012/08	2019-11-06	Mid-Ebb	SR4a	Cloudy	Moderate		4.6	Surface	1	2	25.9	7.9	30.5	5.9	2.8	4.6
TMCLKL		2019-11-06	Mid-Ebb	SR4a					Middle	2	1	25.9	17.9	30.5	5.9	2.0	4.0
	HY/2012/08							4.6		2	2		+				
TMCLKL	HY/2012/08	2019-11-06	Mid-Ebb	SR4a	Cloudy	Moderate		4.6	Middle	2	4	20.0	17.0	20.0	F C	2.0	0.5
TMCLKL	HY/2012/08	2019-11-06	Mid-Ebb	SR4a	Cloudy	Moderate		4.6	Bottom	3	1	26.3	7.9	32.2	5.6	3.6	2.5
TMCLKL	HY/2012/08	2019-11-06	Mid-Ebb	SR4a		Moderate		4.6	Bottom	3	2	26.3	7.9	32.2	5.6	3.6	2.7
TMCLKL	HY/2012/08	2019-11-06	Mid-Ebb	SR4(N2)	Cloudy	Moderate		3.8	Surface	1	1	25.8	8	31.3	5.9	3.9	7.1
TMCLKL	HY/2012/08	2019-11-06	Mid-Ebb	SR4(N2)		Moderate		3.8	Surface	1	2	25.8	8	30.3	5.8	3.8	6.5
TMCLKL	HY/2012/08	2019-11-06	Mid-Ebb	SR4(N2)	Cloudy	Moderate		3.8	Middle	2	1						
TMCLKL	HY/2012/08	2019-11-06	Mid-Ebb	SR4(N2)	Cloudy	Moderate	09:11	3.8	Middle	2	2						
TMCLKL	HY/2012/08	2019-11-06	Mid-Ebb	SR4(N2)	Cloudy	Moderate	09:11	3.8	Bottom	3	1	26	8	31.6	5.9	4.4	6.6
TMCLKL	HY/2012/08	2019-11-06	Mid-Ebb	SR4(N2)	Cloudy	Moderate	09:11	3.8	Bottom	3	2	25.9	8	30.7	5.8	4.8	6.3
TMCLKL	HY/2012/08	2019-11-06	Mid-Ebb	IS8(N)	Cloudy	Moderate	09:16	3.7	Surface	1	1	25.9	8	31.5	6.3	2.5	5.3
TMCLKL	HY/2012/08	2019-11-06	Mid-Ebb	IS8(N)	Cloudy	Moderate	09:16	3.7	Surface	1	2	25.9	8	30.6	6.2	2.7	4
TMCLKL	HY/2012/08	2019-11-06	Mid-Ebb	IS8(N)	Cloudy	Moderate	09:16	3.7	Middle	2	1						
TMCLKL	HY/2012/08	2019-11-06	Mid-Ebb	IS8(N)	Cloudy	Moderate		3.7	Middle	2	2		1				
TMCLKL	HY/2012/08	2019-11-06	Mid-Ebb	IS8(N)	Cloudy			3.7	Bottom	3	1	25.9	8	31.6	6.3	3.4	4
TMCLKL	HY/2012/08	2019-11-06	Mid-Ebb	IS8(N)	Cloudy	Moderate		3.7	Bottom	3	2	25.9	8	30.7	6.3	3.5	4.3
TMCLKL	HY/2012/08	2019-11-06	Mid-Ebb	IS(Mf)9	Cloudy			3.2	Surface	1	1	25.7	0	31.1	6.6	2.4	4.2
				- 				3.2		1	2	25.7	8	30.2		2.8	4.2
TMCLKL	HY/2012/08	2019-11-06	Mid-Ebb	IS(Mf)9	Cloudy	Moderate			Surface	1	4	23.7	0	30.2	6.5	2.0	4.9
TMCLKL	HY/2012/08	2019-11-06	Mid-Ebb	IS(Mf)9	Cloudy	Moderate		3.2	Middle	2	1		 				
TMCLKL	HY/2012/08	2019-11-06	Mid-Ebb	IS(Mf)9	Cloudy	Moderate		3.2	Middle	2	2	05.7	ļ		0.7		
TMCLKL	HY/2012/08	2019-11-06	Mid-Ebb	IS(Mf)9	Cloudy	Moderate		3.2	Bottom	3	1	25.7	8	31.1	6.7	3.2	6
TMCLKL	HY/2012/08	2019-11-06	Mid-Ebb	IS(Mf)9	Cloudy	Moderate		3.2	Bottom	3	2	25.7	8	30.2	6.5	3.5	7.2
TMCLKL	HY/2012/08	2019-11-06	Mid-Ebb	IS(Mf)11	Cloudy	Moderate		11.8	Surface	1	1	25.7	8	31.6	6.4	2	6.3
TMCLKL	HY/2012/08	2019-11-06	Mid-Ebb	IS(Mf)11	Cloudy	Moderate		11.8	Surface	1	2	25.7	8	30.6	6.4	2.2	6
TMCLKL	HY/2012/08	2019-11-06	Mid-Ebb	IS(Mf)11	Cloudy	Moderate		11.8	Middle	2	1	26.1	7.9	32.2	6	2.8	5.6
TMCLKL	HY/2012/08	2019-11-06	Mid-Ebb	IS(Mf)11	Cloudy	Moderate	08:46	11.8	Middle	2	2	25.9	7.9	31	6.2	2.8	4.5
TMCLKL	HY/2012/08	2019-11-06	Mid-Ebb	IS(Mf)11	Cloudy	Moderate	08:46	11.8	Bottom	3	1	26.2	7.9	32.4	6.1	2.9	5.2
TMCLKL	HY/2012/08	2019-11-06	Mid-Ebb	IS(Mf)11	Cloudy	Moderate	08:46	11.8	Bottom	3	2	26.2	7.9	31.5	5.9	2.4	3.9
TMCLKL	HY/2012/08	2019-11-06	Mid-Ebb	SR7	Cloudy	Moderate	07:49	4.8	Surface	1	1	25.9	8.1	32	6.2	2.6	2.1
TMCLKL	HY/2012/08	2019-11-06	Mid-Ebb	SR7	Cloudy			4.8	Surface	1	2	25.9	8.1	31	6.1	3	3.4
TMCLKL	HY/2012/08	2019-11-06	Mid-Ebb	SR7	_			4.8	Middle	2	1		1				
TMCLKL	HY/2012/08	2019-11-06	Mid-Ebb	SR7	_			4.8	Middle	2	2		1				
TMCLKL	HY/2012/08	2019-11-06	Mid-Ebb	SR7	Cloudy			4.8	Bottom	3	1	26	8.1	32.2	6.2	3	2
TMCLKL	HY/2012/08	2019-11-06	Mid-Ebb	SR7	Cloudy	Moderate		4.8	Bottom	3	2	26	8.1	31.2	6.2	3.6	2.2
TMCLKL	HY/2012/08	2019-11-06	Mid-Ebb	IS17		Moderate		7.8	Surface	1	1	25.8	7.9	31.6	6.3	2.3	4.9
	HY/2012/08	2019-11-06	Mid-Ebb	IS17				7.8	Surface	1	2	25.8	7.9	30.7	6.2	2.6	5
TMCLKL						Moderate Moderate				2	1) F
TMCLKL	HY/2012/08	2019-11-06	Mid-Ebb	IS17	Cloudy	Moderate		7.8	Middle	2	1	25.9	7.9	32	6.2	2.6	3.5
TMCLKL	HY/2012/08	2019-11-06	Mid-Ebb	IS17	Cloudy	Moderate		7.8	Middle	2	2	25.9	7.9	31	6.1	2.9	3.2
TMCLKL	HY/2012/08	2019-11-06	Mid-Ebb	IS17	Cloudy	Moderate		7.8	Bottom	3	1	25.9	7.9	32	6.2	2.6	3.8
TMCLKL	HY/2012/08	2019-11-06	Mid-Ebb	IS17	Cloudy	Moderate		7.8	Bottom	3	2	25.9	7.9	31.1	6.1	3.1	3.3
TMCLKL	HY/2012/08	2019-11-06	Mid-Flood	CS(Mf)5	Cloudy	Moderate		12.2	Surface	1	1	26.1	8.1	32.4	6.4	0.9	3.9
TMCLKL	HY/2012/08	2019-11-06	Mid-Flood	CS(Mf)5	Cloudy	Moderate	16:38	12.2	Surface	1	2	26.1	8.1	31.4	6.3	1.1	3.9
TMCLKL	HY/2012/08	2019-11-06	Mid-Flood	CS(Mf)5	Cloudy	Moderate	16:38	12.2	Middle	2	1	26.3	8.1	33.1	5.8	1.9	3.9
TMCLKL	HY/2012/08	2019-11-06	Mid-Flood	CS(Mf)5	Cloudy	Moderate	16:38	12.2	Middle	2	2	26.3	8.1	32.1	5.7	2.2	3.8
	HY/2012/08		Mid-Flood	CS(Mf)5	Cloudy	Moderate	-			3	1	26.4		33.3	5.9	3.1	3.7
	1, 20, 2, 00	1-0.0 11.00	1	1 \/0	1 2 . 2 . 2 . 2 . 3	1	. 5.55	·	1-3	1 -	L *	1	12.1	1	10.0	1~	1

Drainat	Contract	Data	Tide	Stot	Weather	Sea	Time	Water	Lovel	Lay Cad	Donlingto	Tomn(°C)	nu	Solinity/nnt)	DO(ma/L)	Turkidity/NITU	SS(ma/l.)
Project	Contract	Date	Tide	Stat	weather	Condition	Time	Depth	Level	Lev_Cod	Replicate	Temp(°C)	рН	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)
TMCLKL	HY/2012/08	2019-11-06	Mid-Flood	CS(Mf)5	Cloudy	Moderate	16:38	12.2	Bottom	3	2	26.4	8.1	33.3	5.9	3.1	2.8
TMCLKL	HY/2012/08	2019-11-06	Mid-Flood	CS(Mf)3(N)	Cloudy	Moderate	15:42	7.6	Surface	1	1	26.1	8.1	31.8	7.3	2.2	2.8
TMCLKL	HY/2012/08	2019-11-06	Mid-Flood	CS(Mf)3(N)	Cloudy	Moderate	15:42	7.6	Surface	1	2	26.1	8.1	30.9	7.3	2.5	3.9
TMCLKL	HY/2012/08	2019-11-06	Mid-Flood	CS(Mf)3(N)	Cloudy	Moderate	15:42	7.6	Middle	2	1	26	8	31.9	6.9	2.4	5.4
TMCLKL	HY/2012/08	2019-11-06	Mid-Flood	CS(Mf)3(N)	Cloudy	Moderate	15:42	7.6	Middle	2	2	26	8	30.9	6.8	2.9	7.3
TMCLKL	HY/2012/08	2019-11-06	Mid-Flood	CS(Mf)3(N)	Cloudy	Moderate	15:42	7.6	Bottom	3	1	26	8	31.9	6.8	5.5	6.5
TMCLKL	HY/2012/08	2019-11-06	Mid-Flood	CS(Mf)3(N)	Cloudy	Moderate	15:42	7.6	Bottom	3	2	26	8	31	6.8	6	5.9
TMCLKL	HY/2012/08	2019-11-06	Mid-Flood	IS(Mf)16	Cloudy	Moderate	15:04	5.4	Surface	1	1	26.3	8	32	6.5	4.1	6.7
TMCLKL	HY/2012/08	2019-11-06	Mid-Flood	IS(Mf)16	Cloudy	Moderate	15:04	5.4	Surface	1	2	26.3	8	31	6.4	4.4	6
TMCLKL	HY/2012/08	2019-11-06	Mid-Flood	IS(Mf)16	Cloudy	Moderate	15:04	5.4	Middle	2	1						
TMCLKL	HY/2012/08	2019-11-06	Mid-Flood	IS(Mf)16	Cloudy	Moderate	_	5.4	Middle	2	2		ļ		<u> </u>		
TMCLKL	HY/2012/08	2019-11-06	Mid-Flood	IS(Mf)16	Cloudy	Moderate	15:04	5.4	Bottom	3	1	26.3	8	32.1	6.4	3.5	8.7
TMCLKL	HY/2012/08	2019-11-06	Mid-Flood	IS(Mf)16	Cloudy	Moderate	15:04	5.4	Bottom	3	2	26.3	8	31.2	6.3	3.9	7.8
TMCLKL	HY/2012/08	2019-11-06	Mid-Flood	SR4a	Cloudy	Moderate	14:53	4.4	Surface	11	1	26.2	7.9	31.2	6.7	2.2	5.6
TMCLKL	HY/2012/08	2019-11-06	Mid-Flood	SR4a	Cloudy	Moderate	14:53	4.4	Surface	1	2	26.2	7.9	30.2	6.7	2.5	5.7
TMCLKL	HY/2012/08	2019-11-06	Mid-Flood	SR4a	Cloudy	Moderate	14:53	4.4	Middle	2	1	-	1				
TMCLKL	HY/2012/08	2019-11-06	Mid-Flood	SR4a	Cloudy	Moderate	14:53	4.4	Middle	2	2	00.0	1	00.4			
TMCLKL	HY/2012/08	2019-11-06	Mid-Flood	SR4a	Cloudy	Moderate	14:53	4.4	Bottom	3	1	26.3	7.9	32.1	6.2	7.4	4
TMCLKL	HY/2012/08	2019-11-06	Mid-Flood	SR4a	Cloudy	Moderate	14:53	4.4	Bottom	3	2	26.3	7.9	31.2	6	7.1	4.9
TMCLKL	HY/2012/08	2019-11-06	Mid-Flood	SR4(N2)	Cloudy	Moderate	14:49	3.8	Surface	1	1	26.1	7.9	31.5	6.4	3	4.7
TMCLKL	HY/2012/08	2019-11-06	Mid-Flood	SR4(N2)	Cloudy	Moderate	14:49	3.8	Surface	17	2	26.1	7.9	30.5	6.4	3.4	5.2
TMCLKL	HY/2012/08	2019-11-06	Mid-Flood	SR4(N2)	Cloudy	Moderate	14:49	3.8	Middle	2	1	-	1				
TMCLKL	HY/2012/08	2019-11-06	Mid-Flood	SR4(N2)	Cloudy	Moderate		3.8	Middle	2	2	00.0	17.0	04.7	0.4		0.0
TMCLKL	HY/2012/08	2019-11-06	Mid-Flood	SR4(N2)	Cloudy	Moderate		3.8	Bottom	3	1	26.2	7.9	31.7	6.4	3	6.2
TMCLKL	HY/2012/08	2019-11-06	Mid-Flood	SR4(N2)	Cloudy	Moderate		3.8	Bottom	3	2	26.2	7.9	30.7	6.4	3.4	7.1
TMCLKL	HY/2012/08	2019-11-06	Mid-Flood	IS8(N)	Cloudy	Moderate		3.7	Surface	1	1	26.2	8	31.8	6.8	4	3.3
TMCLKL	HY/2012/08	2019-11-06	Mid-Flood	IS8(N)	Cloudy	Moderate	14:43	3.7	Surface	1	2	26.2	8	30.8	6.8	4.4	2.6
TMCLKL	HY/2012/08	2019-11-06	Mid-Flood	IS8(N)	Cloudy	Moderate		3.7	Middle	2	1	1	1				
TMCLKL	HY/2012/08	2019-11-06	Mid-Flood	IS8(N)	Cloudy	Moderate	14:43	3.7	Middle	2	4	20.0	7.0	24.0	0.5	F 2	2.5
TMCLKL	HY/2012/08	2019-11-06	Mid-Flood	IS8(N)	Cloudy	Moderate		3.7	Bottom	3	1	26.2	7.9	31.9	6.5	5.3	3.5
TMCLKL	HY/2012/08	2019-11-06	Mid-Flood	IS8(N)	Cloudy	Moderate	14:43	3.7	Bottom	3	1	26.2	7.9	31	6.4	5 1	2.6
TMCLKL	HY/2012/08	2019-11-06	Mid-Flood	IS(Mf)9	Cloudy	Moderate		3.2	Surface	1	12	26.3 26.3	7.9 7.9	31.7	6.6	5.1	3.2
TMCLKL TMCLKL	HY/2012/08 HY/2012/08	2019-11-06 2019-11-06	Mid-Flood Mid-Flood	IS(Mf)9 IS(Mf)9	Cloudy Cloudy	Moderate		3.2	Surface Middle	12	1	20.3	17.9	30.7	6.6	5.4	4.3
TMCLKL	HY/2012/08	2019-11-06	Mid-Flood	IS(Mf)9	Cloudy	Moderate Moderate	14:37	3.2	Middle	2	2	+	1				
TMCLKL	HY/2012/08	2019-11-06	Mid-Flood	IS(Mf)9	Cloudy	Moderate Moderate	14:37	3.2	Bottom	2	1	26.3	7.9	31.7	6.6	7.3	3.8
TMCLKL	HY/2012/08	2019-11-06	Mid-Flood	IS(Mf)9	Cloudy	Moderate	14:37	3.2	Bottom	3	2	26.3	7.9	30.8	6.5	7.7	3.9
TMCLKL	HY/2012/08	2019-11-06	Mid-Flood	IS(Mf)11	Cloudy	Moderate	15:17	11.2	Surface	1	1	26.2	8	32.3	5.9	4.7	5.4
TMCLKL	HY/2012/08	2019-11-06	Mid-Flood	IS(Mf)11	Cloudy	Moderate	15:17	11.2	Surface	1	2	26.2	8	31.3	5.9	4.8	6.4
TMCLKL	HY/2012/08	2019-11-06	Mid-Flood	IS(Mf)11	Cloudy	Moderate		11.2	Middle	2	1	26.3	8	32.4	5.9	5.7	6.7
TMCLKL	HY/2012/08	2019-11-06	Mid-Flood	IS(Mf)11	Cloudy	Moderate		11.2	Middle	2	2	26.3	8	31.5	5.8	5.3	6.6
TMCLKL	HY/2012/08	2019-11-06	Mid-Flood	IS(Mf)11	Cloudy	Moderate		11.2	Bottom	3	1	26.3	8	32.5	5.9	6.9	7.7
TMCLKL	HY/2012/08	2019-11-06	Mid-Flood	IS(Mf)11	Cloudy	Moderate		11.2	Bottom	3	2	26.3	8	31.6	5.8	6.6	8.8
TMCLKL	HY/2012/08	2019-11-06	Mid-Flood	SR7	Cloudy	Moderate		4.3	Surface	11	1	26.3	8	32.1	6.5	3.7	5.1
TMCLKL	HY/2012/08	2019-11-06	Mid-Flood	SR7	Cloudy	Moderate	16:14	4.3	Surface	11	2	26.3	8	31.1	6.4	4	4.8
TMCLKL	HY/2012/08	2019-11-06	Mid-Flood	SR7	Cloudy	Moderate		4.3	Middle	2	1	120.0	 		10.1	 	1
TMCLKL	HY/2012/08	2019-11-06	Mid-Flood	SR7	Cloudy	Moderate	16:14	4.3	Middle	2	2	†			+	+	+
TMCLKL	HY/2012/08	2019-11-06	Mid-Flood	SR7	Cloudy	Moderate		4.3	Bottom	3	11	26.3	8	32.2	6.5	9.9	6.5
TMCLKL	HY/2012/08	2019-11-06	Mid-Flood	SR7	Cloudy	Moderate		4.3	Bottom	3	2	26.2	8	31.2	6.4	9.8	5.3
TMCLKL	HY/2012/08	2019-11-06	Mid-Flood	IS17	Cloudy	Moderate	15:09	7.7	Surface	11	1	26.3	8	32	6.6	2.1	4.6
TMCLKL	HY/2012/08	2019-11-06	Mid-Flood	IS17	Cloudy	Moderate	15:09	7.7	Surface	11	2	26.3	8	31	6.6	2.3	4.3
TMCLKL	HY/2012/08	2019-11-06	Mid-Flood	IS17	Cloudy	Moderate	15:09	7.7	Middle	2	1	26.3	8	32.3	6.3	2.2	7
TMCLKL	HY/2012/08	2019-11-06	Mid-Flood	IS17	Cloudy	Moderate	15:09	7.7	Middle	2	2	26.3	8	31.3	6.2	2.4	6
TMCLKL	HY/2012/08	2019-11-06	Mid-Flood	IS17	Cloudy	Moderate	15:09	7.7	Bottom	3	1	26.3	8	32.4	6.1	2.2	7.1
TMCLKL	HY/2012/08	2019-11-06	Mid-Flood	IS17	Cloudy	Moderate	15:09	7.7	Bottom	3	2	26.3	8	31.4	6	2.5	8.3
TMCLKL	HY/2012/08	2019-11-08	Mid-Ebb	CS(Mf)5	Fine	Moderate	09:15	12.1	Surface	1	<u> -</u>	25.5	8.2	32.1	6.2	1.5	2.3
TMCLKL	HY/2012/08	2019-11-08	Mid-Ebb	CS(Mf)5	Fine	Moderate	09:15	12.1	Surface	11	2	25.5	8.2	32.1	6.2	1.6	2.7
TMCLKL	HY/2012/08	2019-11-08	Mid-Ebb	CS(Mf)5	Fine	Moderate	09:15	12.1	Middle	2	<u>-</u> 1	26	8.1	32.6	6	1.7	2.8
	HY/2012/08	2019-11-08	Mid-Ebb	CS(Mf)5	Fine	Moderate	09:15	12.1	Middle	2	2	26	8.2	32.6	6	1.8	3
TMCLKL	HY/2012/08	2019-11-08	Mid-Ebb	CS(Mf)5	Fine	Moderate	09:15	12.1	Bottom	3	1	26	8.1	32.7	5.9	1.8	3.7
	HY/2012/08	2019-11-08	Mid-Ebb	CS(Mf)5	Fine	Moderate	09:15	_	•	3	2			32.7	5.9	1.8	3.4
	1 , 20 12, 00	1-010 11 00	111110 - 550	100(1111)0	<u>ıə</u>	Imodolato	100.10	1	15000111	1~	<u></u>	1	10.2	J	10.0	1	10.1

Angle Angl							Sea	Ī	Water	1		Ι	1	1	T		T	1
INC. 1. INC. 1. INC.	Project	Contract	Date	Tide	Stat	Weather		Time	1	Level	Lev_Cod	Replicate	Temp(°C)	рН	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)
TRICHARD	TMOLIC	11)//0040/00	0040 44 00	NA: 1 E1 1	00(N40)0(N1)	F*		40.44	Depth	0 (1	1		10.0	04.5		14.0	1
TRICIA MY291208 201911-08 Mod-Pub SSSM(M) From Moderate 1711 7 Modes 2 2 2 8 8 31 0 0 7 1 3 2 1 1 1 1 1 1 1 1 1					_ ` ' ` '				/	 	1	1	+					1
TRICAIL 17/20/200									/		1	2			+	_		
TRICALE, MY201208 20191-108 MS-CED CS0M30N Fine Moderate 10-11 7 Bottom 3 1 251 62 31.8 6.6 1.9 4 TRICALE, MY201208 20191-108 MS-CED CS0M30N Fine Moderate 10-13 7 Bottom 3 2 2 55.5 6.5 1.8 31.8 6.0 2 3 4.3 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0									7		2	1						
		<u> </u>							7	-	2	2				_		2.1
TRICLIG 1,170071203 2019-11-03 106-250 15MM16 Prie Moderate 1053 5.6 Surface 1 2.53 3.3 3.1 6.8 3.9 6.1					` ' ` '				7	1	3	1						4
Moderate		<u> </u>		<u> </u>	\ / \ /				7		3	2						
Trigger Trig	<u> </u>	+		-	` '				+	-	1	1						
TACLICAL	TMCLKL	HY/2012/08		<u> </u>	IS(Mf)16	Fine			-		1	2	25.3	8.3	31.2	6.8	3.9	6.1
Tractical Program Pr	TMCLKL	HY/2012/08			IS(Mf)16	Fine			5.6	Middle	2	1						
TRICKLK, PY/2012000 2019-1-108 Mon-Etbb. Skid4 Fine Moderate 10.53 6.8 askins 1 2 2.5.3 8.3 31.4 6.6 4.7 9.5 2.7 CRICKLY, PY/2012000 2019-1-108 Mon-Etbb. Skid4 Fine Calm 11.03 4.3 Surface 1 2.5 3.5 6.8 2.3 3.1 6.8 2.2 2.2 CRICKLY, PY/2012000 2019-1-108 Mon-Etbb. Skid4 Fine Calm 11.03 4.3 Surface 1 2.5 2.5 8.3 31.4 6.5 2.1 2.5 2.5 3.	TMCLKL	HY/2012/08	2019-11-08	Mid-Ebb	IS(Mf)16	Fine	Moderate	10:53	5.6	Middle	2	2						
TRICKLK, PV/201208 2019-11-08 Mof-Ebb SR44 Fine Calm 11:03 4.3 Surface 1 2 2.5 3 31.3 6.6 2 2.1 2.3 2.5 TRICKLK, PV/201208 2019-11-08 Mof-Ebb SR44 Fine Calm 11:03 4.3 Mofelbe 2 1 1 2.5 3 3.5 4.6 5 2.1 2.3 2.5 TRICKLK, PV/201208 2019-11-08 Mof-Ebb SR44 Fine Calm 11:03 4.3 Mofelbe 2 1 1 2.5 3 3.5 4.6 4.4 4.5 3.5 TRICKLK, PV/201209 2019-11-08 Mof-Ebb SR44 Fine Calm 11:03 4.3 Mofelbe 2 2 2 2 2 2 2 3 3 3	TMCLKL	HY/2012/08	2019-11-08	Mid-Ebb	IS(Mf)16	Fine	Moderate	10:53	5.6	Bottom	3	1	25.3	8.2	31.4	6.6	4.8	6.1
TRICKLK, MY201208 2019-11-08 Mol-Ebb SR4a Fine Calm 1103 4.3 Surface 2 25.3 8.3 31.4 6.5 2.1 2.1	TMCLKL	HY/2012/08	2019-11-08	Mid-Ebb	IS(Mf)16	Fine	Moderate	10:53	5.6	Bottom	3	2	25.3	8.3	31.4	6.6	4.7	5.9
	TMCLKL	HY/2012/08	2019-11-08	Mid-Ebb	SR4a	Fine	Calm	11:03	4.3	Surface	1	1	25.3	8.2	31.3	6.6	2	2.2
	TMCLKL	HY/2012/08	2019-11-08	Mid-Ebb	SR4a	Fine	Calm	11:03	4.3	Surface	1	2	25.3	8.3	31.4	6.5	2.1	2.3
TRICKLK MY201208 2019-11-08 MoFelbb SR44 Fine Calm 1103 4.3 Models 2 2 5.5 8.2 31.6 8.4 4.4 3.8 MACKER MY201208 2019-11-08 MoFelbb SR44 Fine Calm 1103 4.3 Bottom 3 2 25.3 8.2 31.6 8.4 4.4 3.8 MACKER MY201208 2019-11-08 MoFelbb SR44 Fine Calm 1107 4.1 Sufface 1.2 2.5 2.2 3.1 6.5 3.1 3.9 MACKER MY201208 2019-11-08 MoFelbb SR44 Fine Calm 1107 4.1 MACKER MY201208 2019-11-08 MOFElbb SR44 MY201208 MACKER MY201208 2019-11-08 MOFElbb SR44 MY201208 MACKER MY201208 MACKER MACKER MY201208 MACKER MACKER MY201208 MACKER MACKER MY201208 MACKER MACKER MACKER MY201208 MACKER MACKER MY201208 MACKER MACKER MACKER MY201208 MACKER MACKER MACKER MY201208 MACKER MACKER MACKER MY201208 MACKER MACKER MACKER MACKER MACKER MY201208 MACKER MACKER MACKER MACKER MACKER MACKER MY201208 MACKER MACKE	TMCLKL	HY/2012/08	2019-11-08	Mid-Ebb	SR4a	Fine	Calm	11:03	4.3	Middle	2	1						
TRICKUR. MY201208 2019-11-08 MoEPBD SR448 Fine Calm 1103 4.3 Bottom 3 1 25.3 8.2 31.6 6.4 4.4 3.8			2019-11-08					11:03			2	2						
Triggle My201208 2019-11-08 MoEBu SR44 Fine Calm 11:07 4.1 Surface 1 2.2 8.2 3.3 3.1 6.5 8.4 4.4 3.8											3	1	25.3	8.2	31.6	6.4	4.5	3.3
Tacklick H7/201208 2019-11-08 Mid-Ebb SR4(N2) Fine Calm 11:07 4.1 Surface 1 1 2 2 2 3.3 3.1 6.5 3.1 4.2						 				1	3	2		_				
TRICKLK H7/201208 2019-11-08 Mol-Ebb SRAN(N2) Fine Calm 11:07 4.1 Moldel 2 2 5.2 8.3 31 6.5 3.2 4.2									4 1	+	1	- 1	+					
Tricking					· · · ·				<u>4</u> 1		1	2	+		 	_		
TRUCKLK MY/201208 2019-11-08 Mol-Ebb SR4(N)2 Fine Calm 11:07 4.1 Bottom 3 1 25.3 8.2 31.2 6.5 3.2 4.5									7. I	+	2	1	20.2	0.5		0.5	0.2	17.4
TRICLIK H7/2012/08 2019-11-08 Mid-Ebb SR4(N2) Fine Calm 11:07 4.1 Bottom 3 2 25.3 8.2 31.2 6.5 3.2 4.5					· · · ·				4.1		2	2	+	+			+	+
TMCLIK, HY/2012/08 2019-11-08 MsE-bb SR/NV Fine Calm 11:07 4.1 Sottom 3 2 2.3 3.3 31:2 6.5 3.2 4.4									4.1		2	4	25.2	0.0	24.0	6.5	2 2	1 5
TMCLIK, HY201208					\ /				4.1		3	1						4.5
TMCLIK, HY201208					\ /				4.1		3	4						4.4
TACILK HY201208 2019-11-08 Mid-Ebb S8(N) Fine Calm 11:14 3.8 Middle 2 1		<u> </u>									1	1	+			_		
TMCLIK HY/201208 2019-11-08 Mid-Ebb IS8N) Fine Calm 11:14 3.8 Middle 2 2 5.4 8.3 31.4 6.8 3.1 2.7											1	2	25.4	8.4	31.4	6.7	3.3	2.1
TMCLIK HY201208 2019-11-08 Mid-Ebb IS8N) Fine Calm 11:14 3.8 Bottom 3					· /				+		2	1						
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TMCLKL HY/201208 2019-11-08 Mid-Ebb IS(Mf)9 Fine Calm I1-22 3.2 Surface 1 2 2.52 8.3 31.2 6.8 2.5 2.8											3	2						
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TMCLKL HY/2012/08 2019-11-08 Mid-Ebb IS(Mf)9 Fine Calm 11:22 3.2 Bottom 3 1 25:3 8.2 31:3 6.7 3.7 5.2	TMCLKL	HY/2012/08	2019-11-08	Mid-Ebb	IS(Mf)9	Fine	Calm	11:22	3.2	Middle	2	1						
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TMCLKL HY/2012/08 2019-11-08 Mid-Ebb IS(Mf)11 Fine Moderate 10:38 11.4 Middle 2 1 25.6 8.2 31.8 6.1 2.3 1.7 TMCLKL HY/2012/08 2019-11-08 Mid-Ebb IS(Mf)11 Fine Moderate 10:38 11.4 Middle 2 2 25.6 8.1 31.8 6.1 2.2 1.9 TMCLKL HY/2012/08 2019-11-08 Mid-Ebb IS(Mf)11 Fine Moderate 10:38 11.4 Middle 2 2 25.6 8.1 31.8 6.1 2.2 1.9 TMCLKL HY/2012/08 2019-11-08 Mid-Ebb IS(Mf)11 Fine Moderate 10:38 11.4 Bottom 3 1 25.7 8.1 31.9 6 4 2.1 4.1 Middle 2 2 2.5 3.1 Mid-Ebb IS(Mf)11 Fine Moderate 10:38 11.4 Bottom 3 2 25.7 8.1 31.9 6 3.2 2.2 2.2 MIGCLE HY/2012/08 2019-11-08 Mid-Ebb SR7 Fine Moderate 09:41 4.9 Surface 1 25.3 8.2 31.5 6.7 1.2 1.2 1.2 MIGCLE HY/2012/08 2019-11-08 Mid-Ebb SR7 Fine Moderate 09:41 4.9 Surface 1 2 2 2 2 2 2 2 3 3 3	TMCLKL	HY/2012/08	2019-11-08	Mid-Ebb	IS(Mf)9	Fine	Calm	11:22	3.2	Bottom	3	2	25.3	8.3	31.3	6.7	3.9	5.3
TMCLKL HY/2012/08 2019-11-08 Mid-Ebb IS(MI)11 Fine Moderate 10:38 11.4 Middle 2 1 25.6 8.2 31.8 6.1 2.3 1.7	TMCLKL	HY/2012/08	2019-11-08	Mid-Ebb	IS(Mf)11	Fine	Moderate	10:38	11.4	Surface	1	1	25.5	8.3	31.7	6.3	2	1.2
TMCLKL HY/2012/08 2019-11-08 Mid-Ebb ISIMI)11 Fine Moderate 10:38 11.4 Middle 2 1 2 2.6.6 8.2 31.8 6.1 2.3 1.7 MCLKL HY/2012/08 2019-11-08 Mid-Ebb ISIMI)11 Fine Moderate 10:38 11.4 Middle 2 2 2.5.6 8.1 31.8 6.1 2.2 1.9 McLKL HY/2012/08 2019-11-08 Mid-Ebb ISIMI)11 Fine Moderate 10:38 11.4 Bottom 3 1 2.5.7 8.1 31.9 6 4 2.1 McLKL HY/2012/08 2019-11-08 Mid-Ebb ISIMI)11 Fine Moderate 10:38 11.4 Bottom 3 1 2.5.7 8.1 31.9 6 3.2 2.2 McLKL HY/2012/08 2019-11-08 Mid-Ebb ISIMI)11 Fine Moderate 10:38 11.4 Bottom 3 2 2.5.7 8.1 31.9 6 3.2 2.2 McLKL HY/2012/08 2019-11-08 Mid-Ebb ISIMI)11 Fine Moderate 10:38 11.4 Bottom 3 2 2.5.7 8.1 31.9 6 3.2 2.2 McLKL HY/2012/08 2019-11-08 Mid-Ebb ISIMI)11 Fine Moderate 10:38 11.4 Bottom 3 2 2.5.7 8.1 31.9 6 3.2 2.2 McLKL HY/2012/08 2019-11-08 Mid-Ebb ISIMI)11 Fine Moderate 10:38 11.4 Bottom 3 2 2.5.7 8.1 31.9 6 3.2 2.2 McLKL HY/2012/08 2019-11-08 Mid-Ebb ISIMI)11 Fine Moderate 10:41 4.9 Surface 1 1 2.5.3 8.2 31.5 6.7 1.2 1 McLKL HY/2012/08 2019-11-08 Mid-Ebb ISIMI I	TMCLKL	HY/2012/08	2019-11-08	Mid-Ebb	IS(Mf)11		Moderate	10:38	11.4	Surface	1	2			31.7		2	1.4
TMCLKL HY/2012/08 2019-11-08 Mid-Ebb IS(Mf)11 Fine Moderate 10:38 11.4 Middle 2 2 2 25.6 8.1 31.8 6.1 2.2 1.9 TMCLKL HY/2012/08 2019-11-08 Mid-Ebb IS(Mf)11 Fine Moderate 10:38 11.4 Bottom 3 1 25.7 8.1 31.9 6 4 2.1 TMCLKL HY/2012/08 2019-11-08 Mid-Ebb IS(Mf)11 Fine Moderate 10:38 11.4 Bottom 3 2 2 25.7 8.1 31.9 6 3.2 2.2 TMCLKL HY/2012/08 2019-11-08 Mid-Ebb SR7 Fine Moderate 09:41 4.9 Surface 1 1 25.3 8.2 31.5 6.7 1.2 1 TMCLKL HY/2012/08 2019-11-08 Mid-Ebb SR7 Fine Moderate 09:41 4.9 Surface 1 1 25.3 8.2 31.5 6.7 1.2 1 TMCLKL HY/2012/08 2019-11-08 Mid-Ebb SR7 Fine Moderate 09:41 4.9 Surface 1 2 2 5.3 8.2 31.5 6.7 1.2 1 TMCLKL HY/2012/08 2019-11-08 Mid-Ebb SR7 Fine Moderate 09:41 4.9 Surface 1 2 2 5.3 8.1 31.5 6.7 1.2 1 TMCLKL HY/2012/08 2019-11-08 Mid-Ebb SR7 Fine Moderate 09:41 4.9 Middle 2 1 TMCLKL HY/2012/08 2019-11-08 Mid-Ebb SR7 Fine Moderate 09:41 4.9 Middle 2 1 TMCLKL HY/2012/08 2019-11-08 Mid-Ebb SR7 Fine Moderate 09:41 4.9 Bottom 3 1 25.2 8.2 31.6 6.7 1.4 1.6 TMCLKL HY/2012/08 2019-11-08 Mid-Ebb SR7 Fine Moderate 09:41 4.9 Bottom 3 1 25.2 8.2 31.6 6.7 1.4 1.6 TMCLKL HY/2012/08 2019-11-08 Mid-Ebb SR7 Fine Moderate 09:41 4.9 Bottom 3 2 2 25.2 8.1 31.6 6.7 1.5 1.8 TMCLKL HY/2012/08 2019-11-08 Mid-Ebb SR7 Fine Moderate 10:44 10.5 Surface 1 1 25.5 8.1 31.7 6.3 2 1.8 TMCLKL HY/2012/08 2019-11-08 Mid-Ebb IS17 Fine Moderate 10:44 10.5 Surface 1 2 25.5 8.2 31.7 6.3 2 1.9 TMCLKL HY/2012/08 2019-11-08 Mid-Ebb IS17 Fine Moderate 10:44 10.5 Surface 1 2 25.5 8.2 31.7 6.3 2 1.9 TMCLKL HY/2012/08 2019-11-08 Mid-Ebb IS17 Fine Moderate 10:44 10.5 Surface 1 2 25.5 8.2 31.9 6 2.5 2.2 2.6 TMCLKL HY/2012/08 2019-11-08 Mid-Ebb IS17 Fine Moderate 10:44 10.5 Mid-Eb Surface 1 2 25.5 8.2 31.9 6 2.5 2.2 2.6 TMCLKL HY/2012/08 2019-11-08 Mid-Ebb IS17 Fine Moderate 10:44 10.5 Bottom 3 1 25.7 8.2 31.9 6 2.5 2.5 2.8 TMCLKL HY/2012/08 2019-11-08 Mid-Ebb IS17 Fine Moderate 10:44 10.5 Bottom 3 1 25.7 8.2 31.9 6 2.5 2.5 2.8 TMCLKL HY/2012/08 2019-11-08 Mid-Ebb IS17 Fine Moderate 10:44 10.5 Bottom 3 1 25.7 8.2 31.9 6 2.5 2.5 2.6 6.6 1.1 1.1										+	2	1					2.3	1.7
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TMCLKL HY/2012/08 2019-11-08 Mid-Ebb IS17 Fine Moderate 10:44 10.5 Bottom 3 1 25.7 8.2 31.9 6 2.7 2.8 TMCLKL HY/2012/08 2019-11-08 Mid-Ebb IS17 Fine Moderate 10:44 10.5 Bottom 3 2 25.7 8.3 31.9 6 2.5 2.6 TMCLKL HY/2012/08 2019-11-08 Mid-Flood CS(Mf)5 Fine Moderate 17:37 12.6 Surface 1 1 25.9 8.4 32.5 6.5 1.1 1.5 TMCLKL HY/2012/08 2019-11-08 Mid-Flood CS(Mf)5 Fine Moderate 17:37 12.6 Surface 1 2 25.9 8.4 32.5 6.6 1.1 1.6 TMCLKL HY/2012/08 2019-11-08 Mid-Flood CS(Mf)5 Fine Moderate 17:37 12.6 Middle 2 2 26									+		2	1						
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TMCLKL HY/2012/08 2019-11-08 Mid-Flood CS(Mf)5 Fine Moderate 17:37 12.6 Surface 1 1 25.9 8.4 32.5 6.5 1.1 1.5 TMCLKL HY/2012/08 2019-11-08 Mid-Flood CS(Mf)5 Fine Moderate 17:37 12.6 Surface 1 2 25.9 8.4 32.5 6.6 1.1 1.6 TMCLKL HY/2012/08 2019-11-08 Mid-Flood CS(Mf)5 Fine Moderate 17:37 12.6 Middle 2 1 26 8.4 32.8 6.2 3.3 2.4 TMCLKL HY/2012/08 2019-11-08 Mid-Flood CS(Mf)5 Fine Moderate 17:37 12.6 Middle 2 2 26 8.3 32.8 6.2 3.1 2.2 TMCLKL HY/2012/08 2019-11-08 Mid-Flood CS(Mf)5 Fine Moderate 17:37 12.6 Bottom 3 1 26								-		 	3	11				6		_
TMCLKL HY/2012/08 2019-11-08 Mid-Flood CS(Mf)5 Fine Moderate 17:37 12.6 Surface 1 2 25.9 8.4 32.5 6.6 1.1 1.6 TMCLKL HY/2012/08 2019-11-08 Mid-Flood CS(Mf)5 Fine Moderate 17:37 12.6 Middle 2 1 26 8.4 32.8 6.2 3.3 2.4 TMCLKL HY/2012/08 2019-11-08 Mid-Flood CS(Mf)5 Fine Moderate 17:37 12.6 Bottom 3 1 26 8.4 32.8 6.2 3.1 2.2 TMCLKL HY/2012/08 2019-11-08 Mid-Flood CS(Mf)5 Fine Moderate 17:37 12.6 Bottom 3 1 26 8.4 32.8 6.2 6.6 2.8 TMCLKL HY/2012/08 2019-11-08 Mid-Flood CS(Mf)5 Fine Moderate 17:37 12.6 Bottom 3 2 26 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td> </td> <td>3</td> <td>2</td> <td></td> <td></td> <td></td> <td>6</td> <td>1</td> <td></td>										 	3	2				6	1	
TMCLKL HY/2012/08 2019-11-08 Mid-Flood CS(Mf)5 Fine Moderate 17:37 12.6 Middle 2 1 26 8.4 32.8 6.2 3.3 2.4 TMCLKL HY/2012/08 2019-11-08 Mid-Flood CS(Mf)5 Fine Moderate 17:37 12.6 Middle 2 2 26 8.3 32.8 6.2 3.1 2.2 TMCLKL HY/2012/08 2019-11-08 Mid-Flood CS(Mf)5 Fine Moderate 17:37 12.6 Bottom 3 1 26 8.4 32.8 6.2 6.6 2.8 TMCLKL HY/2012/08 2019-11-08 Mid-Flood CS(Mf)5 Fine Moderate 17:37 12.6 Bottom 3 2 26 8.3 32.8 6.2 6.9 6.9 2.6					 				1		1	1						
TMCLKL HY/2012/08 2019-11-08 Mid-Flood CS(Mf)5 Fine Moderate 17:37 12.6 Middle 2 2 26 8.3 32.8 6.2 3.1 2.2 TMCLKL HY/2012/08 2019-11-08 Mid-Flood CS(Mf)5 Fine Moderate 17:37 12.6 Bottom 3 1 26 8.4 32.8 6.2 6.6 2.8 TMCLKL HY/2012/08 2019-11-08 Mid-Flood CS(Mf)5 Fine Moderate 17:37 12.6 Bottom 3 2 26 8.3 32.8 6.2 6.9 2.6		†	-		` '				1	+	1	2	†					
TMCLKL HY/2012/08 2019-11-08 Mid-Flood CS(Mf)5 Fine Moderate 17:37 12.6 Bottom 3 1 26 8.4 32.8 6.2 6.6 2.8 TMCLKL HY/2012/08 2019-11-08 Mid-Flood CS(Mf)5 Fine Moderate 17:37 12.6 Bottom 3 2 26 8.3 32.8 6.2 6.9 2.6					/					+	2	1	26	8.4	+		-	
TMCLKL HY/2012/08 2019-11-08 Mid-Flood CS(Mf)5 Fine Moderate 17:37 12.6 Bottom 3 2 26 8.3 32.8 6.2 6.9 2.6	TMCLKL	HY/2012/08			· · · · ·	Fine	Moderate	17:37	12.6	Middle	2	2	26	8.3	32.8			
	TMCLKL		2019-11-08			Fine				Bottom	3	1	26	8.4		6.2	0.0	
	TMCLKL	HY/2012/08	2019-11-08	Mid-Flood	CS(Mf)5	Fine	Moderate	17:37	12.6	Bottom	3	2	26	8.3	32.8	6.2	6.9	2.6
_ε τινίουται μτη ευτών του μείνα τουν του μείνα μου μείνου με μείνου με μείνου με του μείνου με του μείνου με μείνου με μείνου με μείνου μείνου με μείνου με				Mid-Flood					7.2	Surface	1	1	25.4		31.6	7.3	1.6	2.5

Droject	Cantrast	Dete	Tido	Ctot	Weether	Sea	Time	Water	Lavial	Law Cod	Danliagta	Town(°C)		Colinity (mmt)	DO(ma/L)	T	SS(mm/l)
Project	Contract	Date	Tide	Stat	Weather	Condition	Time	Depth	Level	Lev_Cod	Replicate	Temp(°C)	рН	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)
TMCLKL	HY/2012/08	2019-11-08	Mid-Flood	CS(Mf)3(N)	Fine	Moderate	16:37	7.2	Surface	1	2	25.4	8.4	31.6	7.3	1.6	2.2
TMCLKL	HY/2012/08	2019-11-08	Mid-Flood		Fine	Moderate	16:37	7.2	Middle	2	1	25.4	8.4	31.6	7.3	1.8	2.7
TMCLKL	HY/2012/08	2019-11-08	Mid-Flood		Fine	Moderate	16:37	7.2	Middle	2	2	25.4	8.4	31.6	7.3	1.7	3
TMCLKL	HY/2012/08	2019-11-08	Mid-Flood		Fine	Moderate	16:37	7.2	Bottom	3	1	25.4	8.4	31.6	7.2	1.6	3.9
TMCLKL	HY/2012/08	2019-11-08	Mid-Flood	_ , , , ,	Fine	Moderate	16:37	7.2	Bottom	3	2	25.4	8.3	31.6	7.2	1.6	3.7
TMCLKL	HY/2012/08	2019-11-08	Mid-Flood	IS(Mf)16	Fine	Moderate	15:56	5.5	Surface	1	1	25.7	8.3	31.6	7	5.4	5.5
TMCLKL	HY/2012/08	2019-11-08	Mid-Flood	IS(Mf)16	Fine	Moderate	15:56	5.5	Surface	1	2	25.7	8.2	31.6	7	5.1	5.2
TMCLKL	HY/2012/08	2019-11-08	Mid-Flood	IS(Mf)16	Fine	Moderate	15:56	5.5	Middle	2	1	-	1				
TMCLKL	HY/2012/08	2019-11-08	Mid-Flood	IS(Mf)16	Fine	Moderate	15:56	5.5	Middle	2	2	05.7		04.0	0.0	10.0	1.7
TMCLKL	HY/2012/08	2019-11-08	Mid-Flood	IS(Mf)16	Fine	Moderate	15:56	5.5	Bottom	3	1	25.7	8.3	31.8	6.8	3.3	4.7
TMCLKL	HY/2012/08	2019-11-08	Mid-Flood	IS(Mf)16	Fine	Moderate	15:56	5.5	Bottom	3	2	25.7 25.7	8.2	31.8	6.8	3.3	4.7
TMCLKL	HY/2012/08	2019-11-08	Mid-Flood Mid-Flood	SR4a SR4a	Fine Fine	Calm Calm	15:45	4	Surface	1	12	25.7	8.2	31.2 31.1	7.4	2.3	3
TMCLKL TMCLKL	HY/2012/08 HY/2012/08	2019-11-08	Mid-Flood	SR4a	Fine	Calm	15:45 15:45	4	Surface Middle	2	1	25.7	0.2	31.1	7.4	2.3	2.6
TMCLKL	HY/2012/08	2019-11-08	Mid-Flood	SR4a	Fine	Calm	15:45	4	Middle	2	2		1				+
TMCLKL	HY/2012/08	2019-11-08	Mid-Flood	SR4a	Fine	Calm	15:45	4	Bottom	3	1	25.5	8.3	31.4	7.3	2.2	3.5
TMCLKL	HY/2012/08	2019-11-08	Mid-Flood	SR4a	Fine	Calm	15:45	1	Bottom	3	2	25.5	8.2	31.4	7.3	2.3	3.8
TMCLKL	HY/2012/08	2019-11-08	Mid-Flood	SR4(N2)	Fine	Calm		3.9	Surface	1	1	25.6	8.3	31.3	7.2	5.1	3.8
TMCLKL	HY/2012/08	2019-11-08	Mid-Flood	SR4(N2)	Fine	Calm	15:40	3.9	Surface	1	2	25.6	8.2	31.2	7.2	4.8	4.2
TMCLKL	HY/2012/08	2019-11-08	Mid-Flood	SR4(N2)	Fine	Calm	15:40	3.9	Middle	2	1	20.0	0.2	J1.2	1.2	7.0	7.2
TMCLKL	HY/2012/08	2019-11-08	Mid-Flood	SR4(N2)	Fine	Calm	15:40	3.9	Middle	2	2		1				+
TMCLKL	HY/2012/08	2019-11-08	Mid-Flood	SR4(N2)	Fine	Calm	15:40	3.9	Bottom	3	1	25.6	8.3	31.3	7.3	3.4	5.4
TMCLKL	HY/2012/08	2019-11-08	Mid-Flood	SR4(N2)	Fine	Calm		3.9	Bottom	3	2	25.6	8.2	31.3	7.3	3.3	5.3
TMCLKL	HY/2012/08	2019-11-08	Mid-Flood	IS8(N)	Fine	Calm	15:34	3.7	Surface	1	1	25.7	8.2	31.4	7.5	3.5	3.4
TMCLKL	HY/2012/08	2019-11-08	Mid-Flood	IS8(N)	Fine	Calm		3.7	Surface	1	2	25.7	8.2	31.4	7.5	3.6	3.9
TMCLKL	HY/2012/08	2019-11-08	Mid-Flood	IS8(N)	Fine	Calm		3.7	Middle	2	1						
TMCLKL	HY/2012/08	2019-11-08	Mid-Flood	IS8(N)	Fine	Calm	15:34	3.7	Middle	2	2						
TMCLKL	HY/2012/08	2019-11-08	Mid-Flood	IS8(N)	Fine	Calm		3.7	Bottom	3	1	25.6	8.2	31.5	7.5	3.3	3.8
TMCLKL	HY/2012/08	2019-11-08	Mid-Flood	IS8(N)	Fine	Calm	15:34	3.7	Bottom	3	2	25.6	8.2	31.5	7.5	3.3	3.7
TMCLKL	HY/2012/08	2019-11-08	Mid-Flood	IS(Mf)9	Fine	Calm	15:27	3.1	Surface	1	1	25.6	8.2	31.4	7.3	6.1	5.7
TMCLKL	HY/2012/08	2019-11-08	Mid-Flood	IS(Mf)9	Fine	Calm	15:27	3.1	Surface	1	2	25.6	8.2	31.4	7.3	5.9	5.4
TMCLKL	HY/2012/08	2019-11-08	Mid-Flood	IS(Mf)9	Fine	Calm	15:27	3.1	Middle	2	1						
TMCLKL	HY/2012/08	2019-11-08	Mid-Flood	IS(Mf)9	Fine	Calm	15:27	3.1	Middle	2	2						
TMCLKL	HY/2012/08	2019-11-08	Mid-Flood	IS(Mf)9	Fine	Calm		3.1	Bottom	3	1	25.5	8.2	31.4	7.3	5.8	7.8
TMCLKL	HY/2012/08	2019-11-08	Mid-Flood	IS(Mf)9	Fine	Calm		3.1	Bottom	3	2	25.5	8.2	31.4	7.3	5.7	7.4
TMCLKL	HY/2012/08	2019-11-08	Mid-Flood	IS(Mf)11	Fine	Moderate	16:11	10.9	Surface	1	1	25.6	8.3	31.7	6.5	5.5	5
TMCLKL	HY/2012/08	2019-11-08	Mid-Flood	IS(Mf)11	Fine	Moderate	16:11	10.9	Surface	1	2	25.6	8.3	31.7	6.5	4.8	5.5
TMCLKL	HY/2012/08	2019-11-08	Mid-Flood	IS(Mf)11	Fine	Moderate	16:11	10.9	Middle	2	1	25.6	8.3	31.8	6.5	9.4	7.9
TMCLKL	HY/2012/08	2019-11-08	Mid-Flood	IS(Mf)11	Fine	Moderate	16:11	10.9	Middle	2	2	25.6	8.3	31.8	6.5	8.9	7.5
TMCLKL	HY/2012/08	2019-11-08	Mid-Flood	IS(Mf)11	Fine	Moderate		10.9	Bottom	3	1	25.6	8.3	31.8	6.5	11.8	9.6
TMCLKL	HY/2012/08	2019-11-08	Mid-Flood	IS(Mf)11	Fine	Moderate	16:11	10.9	Bottom	3	2	25.6	8.3	31.8	6.5	11.1	9.8
TMCLKL	HY/2012/08	2019-11-08	Mid-Flood	SR7	Fine	Moderate		4.7	Surface	1	17	25.7	8.4	32	6.7	2.1	3.3
TMCLKL	HY/2012/08	2019-11-08	Mid-Flood	SR7 SR7	Fine	Moderate	_	4.7	Surface	12	1	25.7	8.3	32	6.7	2.1	3.8
TMCLKL TMCLKL	HY/2012/08 HY/2012/08	2019-11-08	Mid-Flood Mid-Flood	SR7	Fine	Moderate Moderate	17:12 17:12	4.7	Middle Middle	2	12	+				+	 '
TMCLKL	HY/2012/08 HY/2012/08	2019-11-08	Mid-Flood	SR7	Fine Fine	Moderate Moderate		4.7	Bottom	2	1	25.7	8.4	32	6.7	2 7	16
TMCLKL	HY/2012/08	2019-11-08	Mid-Flood	SR7	Fine	Moderate	17:12	4.7	Bottom	3	2	25.7	8.3	32	6.7	2.7 2.8	4.6
TMCLKL	HY/2012/08	2019-11-08	Mid-Flood	IS17	Fine	Moderate	16:02	10.4	Surface	1	1	25.7	8.3	31.9	6.7	1.4	2 1
TMCLKL	HY/2012/08	2019-11-08	Mid-Flood	IS17	Fine	Moderate	16:02	10.4	Surface	1	2	25.7	8.3	31.9	6.7	1.5	2.3
TMCLKL	HY/2012/08	2019-11-08	Mid-Flood	IS17	Fine	Moderate	16:02	10.4	Middle	2	1	25.6	8.3	31.9	6.4	1.5	2.4
TMCLKL	HY/2012/08	2019-11-08	Mid-Flood	IS17	Fine	Moderate	16:02	10.4	Middle	2	2	25.6	8.2	31.9	6.4	1.4	2.3
TMCLKL	HY/2012/08	2019-11-08	Mid-Flood	IS17	Fine	Moderate	16:02	10.4	Bottom	3	11	25.6	8.3	32	6.3	2.7	3.5
TMCLKL	HY/2012/08	2019-11-08	Mid-Flood	IS17	Fine	Moderate	16:02	10.4	Bottom	3	2	25.6	8.2	32	6.3	2.9	3.8
TMCLKL	HY/2012/08	2019-11-11	Mid-Ebb	CS(Mf)5	Fine	Moderate	10:57	12.4	Surface	1	11	25.9	8	32.8	7.6	2.6	5.6
TMCLKL	HY/2012/08	2019-11-11	Mid-Ebb	CS(Mf)5	Fine	Moderate	10:57	12.4	Surface	1	2	25.9	8.1	33.9	7.6	2.2	5.9
TMCLKL	HY/2012/08	2019-11-11	Mid-Ebb	CS(Mf)5	Fine	Moderate	10:57	12.4	Middle	2	1 -	25.7	8	32.9	7.3	2.2	6.2
TMCLKL	HY/2012/08	2019-11-11	Mid-Ebb	CS(Mf)5	Fine	Moderate	10:57	12.4	Middle	2	2	25.7	8.1	33.9	7.3	1.9	5.6
TMCLKL	HY/2012/08	2019-11-11	Mid-Ebb	CS(Mf)5	Fine	Moderate	10:57	12.4	Bottom	3	<u> -</u> 1	25.6	8	32.9	6.6	3.1	5.8
	HY/2012/08	2019-11-11	Mid-Ebb	CS(Mf)5	Fine	Moderate		12.4	Bottom	3	2	25.6	8	33.9	6.7	2.8	5.6
TMCLKL	HY/2012/08	2019-11-11	Mid-Ebb	CS(Mf)3(N)		Moderate		7.1	Surface	1	1	25.1	8.1	32.5	8.4	2	3.3
	HY/2012/08	2019-11-11	Mid-Ebb	CS(Mf)3(N)		Moderate	_!	7.1	Surface	1	2	25.1	8.2		8.4	1.6	3.8
		1	<u>, </u>	\/~(/		1	,		1 - 2	1	1		1	1	1	<u> </u>	

Project	Contract	Date	Tide	Stat	Weather	Sea	Time	Water	Lovel	Lay Cod	Poplicate	Tomp(°C)	nu	Solinity/nnt)	DO(mg/L)	Turbidity/NTU)	SS(mg/L)
Project	Contract	Date	Tide	Stat	weather	Condition	Time	Depth	Level	Lev_Cod	Replicate	Temp(°C)	рН	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)
TMCLKL	HY/2012/08	2019-11-11	Mid-Ebb	CS(Mf)3(N)	Fine	Moderate	11:59	7.1	Middle	2	1	24.9	8	32.6	7.8	2.5	4.5
TMCLKL	HY/2012/08	2019-11-11	Mid-Ebb	CS(Mf)3(N)	Fine	Moderate	11:59	7.1	Middle	2	2	24.9	8.2	33.6	7.8	2.3	4.4
TMCLKL	HY/2012/08	2019-11-11	Mid-Ebb		Fine	Moderate		7.1	Bottom	3	1	24.8	8	33.1	7.5	3	4.7
TMCLKL	HY/2012/08	2019-11-11	Mid-Ebb		Fine	Moderate		7.1	Bottom	3	2	24.9	8.2	34.1	7.5	2.6	4.5
TMCLKL	HY/2012/08	2019-11-11	Mid-Ebb	IS(Mf)16	Fine	Moderate		5.7	Surface	1	1	25.3	8.2	32.3	9.6	3.6	4.7
TMCLKL	HY/2012/08	2019-11-11	Mid-Ebb	IS(Mf)16	Fine	Moderate		5.7	Surface	1	2	25.3	8.3	33.3	9.5	2.9	5
TMCLKL	HY/2012/08	2019-11-11	Mid-Ebb	IS(Mf)16	Fine	Moderate		5.7	Middle	2	1						
TMCLKL	HY/2012/08	2019-11-11	Mid-Ebb	IS(Mf)16	Fine	Moderate		5.7	Middle	2	2						
TMCLKL	HY/2012/08	2019-11-11	Mid-Ebb	IS(Mf)16	Fine	Moderate		5.7	Bottom	3	1	25.2	8.2	32.4	8.7	3.7	4.8
TMCLKL	HY/2012/08	2019-11-11	Mid-Ebb	IS(Mf)16	Fine	Moderate	+	5.7	Bottom	3	2	25.2	8.3	33.3	8.8	3.5	5.2
TMCLKL	HY/2012/08	2019-11-11	Mid-Ebb	SR4a	Fine	Calm		4.5	Surface	1	1	25.8	8.3	32.3	10.3	2.2	7.1
TMCLKL	HY/2012/08	2019-11-11	Mid-Ebb	SR4a	Fine	Calm	12:53	4.5	Surface	1	2	25.8	8.3	33.3	10.2	1.8	7.5
TMCLKL	HY/2012/08	2019-11-11	Mid-Ebb	SR4a	Fine	Calm	12:53	4.5	Middle	2	12		<u> </u>				
TMCLKL	HY/2012/08	2019-11-11	Mid-Ebb	SR4a	Fine	Calm	12:53	4.5	Middle	2	2	05.0		00.4		0.4	
TMCLKL	HY/2012/08	2019-11-11	Mid-Ebb	SR4a	Fine	Calm	12:53	4.5	Bottom	3	1	25.2	8.3	32.4	9.3	3.1	5.2
TMCLKL	HY/2012/08	2019-11-11	Mid-Ebb	SR4a	Fine	Calm	12:53	4.5	Bottom	3	2	25.2	8.3	33.4	9.3	2.7	5.6
TMCLKL	HY/2012/08	2019-11-11	Mid-Ebb	SR4(N2)	Fine	Calm	12:58	4.1	Surface	1	11	25.6	8.3	32.1	9.5	2.8	5.7
TMCLKL	HY/2012/08	2019-11-11	Mid-Ebb	SR4(N2)	Fine	Calm		4.1	Surface	17	2	25.6	8.3	33.1	9.5	2.6	5.5
TMCLKL	HY/2012/08	2019-11-11	Mid-Ebb	SR4(N2)	Fine	Calm		4.1	Middle	2	1	1		-	1	1	
TMCLKL	HY/2012/08	2019-11-11	Mid-Ebb	SR4(N2)	Fine	Calm		4.1	Middle	2	2	05.0		00.0	0.0		7.0
TMCLKL	HY/2012/08	2019-11-11	Mid-Ebb	SR4(N2)	Fine	Calm		4.1	Bottom	3	17	25.2	8.3	32.3	8.8	4.1	7.6
TMCLKL	HY/2012/08	2019-11-11	Mid-Ebb	SR4(N2)	Fine	Calm	12:58	4.1	Bottom	3	2	25.2	8.3	33.3	8.8	3.4	7.5
TMCLKL	HY/2012/08	2019-11-11	Mid-Ebb	IS8(N)	Fine	Calm		3.7	Surface	1	1	25.3	8.4	32.2	10.2	4.8	5.4
TMCLKL	HY/2012/08	2019-11-11	Mid-Ebb	IS8(N)	Fine	Calm		3.7	Surface	1	2	25.3	8.3	33.2	10.2	4.6	5.9
TMCLKL	HY/2012/08	2019-11-11	Mid-Ebb	IS8(N)	Fine	Calm		3.7	Middle	2	1		1				
TMCLKL	HY/2012/08	2019-11-11	Mid-Ebb	IS8(N)	Fine	Calm		3.7	Middle	2	2	05.0	0.4	20.0	10	4.0	0.0
TMCLKL	HY/2012/08	2019-11-11	Mid-Ebb	IS8(N)	Fine	Calm		3.7	Bottom	3	1	25.3	8.4	32.2	10	4.2	6.8
TMCLKL	HY/2012/08	2019-11-11	Mid-Ebb	IS8(N)	Fine	Calm		3.7	Bottom	3	2	25.3	8.3	33.2	10	3.9	6.4
TMCLKL	HY/2012/08	2019-11-11	Mid-Ebb	IS(Mf)9	Fine	Calm		3.3	Surface	1	1	25.5	8.4	32.3	9.7	3	5
TMCLKL	HY/2012/08	2019-11-11	Mid-Ebb	IS(Mf)9	Fine	Calm		3.3	Surface	1	2	25.5	8.3	33.3	9.6	2.6	5.8
TMCLKL	HY/2012/08	2019-11-11	Mid-Ebb	IS(Mf)9	Fine	Calm		3.3	Middle	2	12		1				
TMCLKL	HY/2012/08	2019-11-11	Mid-Ebb	IS(Mf)9	Fine	Calm Calm		3.3	Middle	2	1	25.1	8.4	32.4	0.0	5.6	7.1
TMCLKL TMCLKL	HY/2012/08 HY/2012/08	2019-11-11	Mid-Ebb Mid-Ebb	IS(Mf)9 IS(Mf)9	Fine Fine	Calm		3.3	Bottom Bottom	3	12	25.1	8.3	33.4	8.9	5.1	7.1
TMCLKL	HY/2012/08	2019-11-11	Mid-Ebb	IS(Mf)11	Fine	Moderate	12:25	10.8	Surface	1	1	25.2	8.2	32.3	8.9 9.2	1.6	6.8 5.8
TMCLKL	HY/2012/08	2019-11-11	Mid-Ebb	IS(Mf)11	Fine	Moderate	12:25	10.8	Surface	1	2	25.3	8.3	33.3	9.2	1.4	6.5
TMCLKL	HY/2012/08	2019-11-11	Mid-Ebb	IS(Mf)11	Fine	Moderate	12:25	10.8	Middle	2	1	25.3	8.1	32.5	8.3	2.5	5.7
TMCLKL	HY/2012/08	2019-11-11	Mid-Ebb	IS(Mf)11	Fine	Moderate	12:25	10.8	Middle	2	2	25.1	8.2	33.5	8.3	2.1	6.2
TMCLKL	HY/2012/08	2019-11-11	Mid-Ebb	IS(Mf)11	Fine	Moderate	12:25	10.8	Bottom	2	1	25.1	8.1	32.5	8.2	2.5	5.1
TMCLKL	HY/2012/08	2019-11-11	Mid-Ebb	IS(Mf)11	Fine	Moderate	12:25	10.8	Bottom	3	2	25.1	8.2	33.5	8.2	2.4	4.7
TMCLKL	HY/2012/08	2019-11-11	Mid-Ebb	SR7	Fine	Moderate		4.7	Surface	1	1	25.2	8.1	32.5	Ω.2	3.6	5.8
TMCLKL	HY/2012/08	2019-11-11	Mid-Ebb	SR7	Fine	Moderate		4.7	Surface	1	2	25.2	8.2	33.5	Ω	3.2	6.3
TMCLKL	HY/2012/08	2019-11-11	Mid-Ebb	SR7	Fine	Moderate		4.7	Middle	2	1	20.2	0.2	00.0	1	J.2	0.5
TMCLKL	HY/2012/08	2019-11-11	Mid-Ebb	SR7	Fine	Moderate		4.7	Middle	2	2	+			+	+	+
TMCLKL	HY/2012/08	2019-11-11	Mid-Ebb	SR7	Fine	Moderate		4.7	Bottom	3	1	25.1	8	32.5	7.8	4.4	6.7
TMCLKL	HY/2012/08	2019-11-11	Mid-Ebb	SR7	Fine	Moderate		4.7	Bottom	3	2	25.2	8.2	33.5	7.8	3.7	6.7
TMCLKL	HY/2012/08	2019-11-11	Mid-Ebb	IS17	Fine	Moderate	12:34	11.6	Surface	1	1	25.3	8.1	32.5	8.4	2.2	5.1
TMCLKL	HY/2012/08	2019-11-11	Mid-Ebb	IS17	Fine	Moderate		11.6	Surface	11	2	25.3	8.2	33.5	8.5	2	4.8
TMCLKL	HY/2012/08	2019-11-11	Mid-Ebb	IS17	Fine	Moderate		11.6	Middle	2	1	25.2	8.1	32.6	7.7	2.5	5.1
TMCLKL	HY/2012/08	2019-11-11	Mid-Ebb	IS17	Fine	Moderate		11.6	Middle	2	2	25.2	8.2	33.5	7.8	2.5	5.9
TMCLKL	HY/2012/08	2019-11-11	Mid-Ebb	IS17	Fine	Moderate		11.6	Bottom	3	1	25.2	8.1	32.6	7.5	4.7	5.6
TMCLKL	HY/2012/08	2019-11-11	Mid-Ebb	IS17	Fine	Moderate	12:34	11.6	Bottom	3	2	25.3	8.2	33.6	7.5	4.5	5.5
TMCLKL	HY/2012/08	2019-11-11	Mid-Flood	CS(Mf)5	Cloudy	Rough	18:36	12.2	Surface	11	1 -	25.6	8.1	32.9	7.2	7.7	8.9
TMCLKL	HY/2012/08	2019-11-11	Mid-Flood	CS(Mf)5	Cloudy	Rough	18:36	12.2	Surface	11	2	25.6	8.2	33.9	7.3	7	9.4
TMCLKL	HY/2012/08	2019-11-11	Mid-Flood	CS(Mf)5	Cloudy	Rough	18:36	12.2	Middle	2	1 -	25.6	8.1	32.9	7.2	10	10.2
TMCLKL	HY/2012/08	2019-11-11	Mid-Flood	CS(Mf)5	Cloudy	Rough	18:36	12.2	Middle	2	2	25.6	8.2	33.9	7.2	8.1	10.2
TMCLKL	HY/2012/08	2019-11-11	Mid-Flood	CS(Mf)5	Cloudy	Rough	18:36	12.2	Bottom	3	1 -	25.6	8.1	32.9	7.2	13	11
TMCLKL	HY/2012/08	2019-11-11	Mid-Flood	CS(Mf)5	Cloudy	Rough	18:36	12.2	Bottom	3	2	25.6	8.2	33.8	7.3	12.5	11.7
	HY/2012/08	2019-11-11	Mid-Flood	CS(Mf)3(N)		Moderate			Surface	11	1 -	25.3	8.2	32.2	9.3	3.4	6.8
TMCLKL	HY/2012/08	2019-11-11	Mid-Flood	CS(Mf)3(N)	Cloudy	Moderate	1110=	7.2	Surface	1	2	25.3		33.2	9.3	3.2	6.4
	HY/2012/08	2019-11-11	Mid-Flood	CS(Mf)3(N)		Moderate		-	Middle	2	1		8.2		9.3	4.1	7
	1, 23 12, 00	1-0.0	1	1 () - (1 •)	1 2	1	102	<u> </u>	1		1.	1-0.0	12.2	1	10.0	1	<u> </u>

Draiget	Contract	Data	Tido	Ctot	Weether	Sea	Time	Water	Lovel	Lay Cad	Donlingto	Tomn(°C)	nu.	Solinity/nnt)	DO(ma/L)	Turkidity/NTU)	SS(ma/l)
Project	Contract	Date	Tide	Stat	Weather	Condition	Time	Depth	Level	Lev_Cod	Replicate	Temp(°C)	рН	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)
TMCLKL	HY/2012/08	2019-11-11	Mid-Flood	CS(Mf)3(N)	Cloudy	Moderate	17:32	7.2	Middle	2	2	25.3	8.3	33.2	9.3	3.9	6.6
TMCLKL	HY/2012/08	2019-11-11	Mid-Flood	CS(Mf)3(N)	Cloudy	Moderate	17:32	7.2	Bottom	3	1	25.3	8.2	32.2	9.2	3.8	7
TMCLKL	HY/2012/08	2019-11-11	Mid-Flood	CS(Mf)3(N)	Cloudy	Moderate	17:32	7.2	Bottom	3	2	25.3	8.3	33.2	9.2	3.4	7.5
TMCLKL	HY/2012/08	2019-11-11	Mid-Flood	IS(Mf)16	Fine	Moderate	16:53	5.3	Surface	1	1	25.3	8.4	32.3	10.2	7.5	10.7
TMCLKL	HY/2012/08	2019-11-11	Mid-Flood	IS(Mf)16	Fine	Moderate	16:53	5.3	Surface	1	2	25.4	8.4	33.3	10.1	6.6	10.5
TMCLKL	HY/2012/08	2019-11-11	Mid-Flood	IS(Mf)16	Fine	Moderate	16:53	5.3	Middle	2	1						
TMCLKL	HY/2012/08	2019-11-11	Mid-Flood	IS(Mf)16	Fine	Moderate	16:53	5.3	Middle	2	2						
TMCLKL	HY/2012/08	2019-11-11	Mid-Flood	IS(Mf)16	Fine	Moderate	16:53	5.3	Bottom	3	1	25.3	8.3	32.3	9.3	9.1	9.8
TMCLKL	HY/2012/08	2019-11-11	Mid-Flood	IS(Mf)16	Fine	Moderate	16:53	5.3	Bottom	3	2	25.3	8.3	33.3	9.2	7.8	9.2
TMCLKL	HY/2012/08	2019-11-11	Mid-Flood	SR4a	Fine	Calm	16:43	4.2	Surface	1	1	25.6	8.4	32.3	11.4	2.5	5
TMCLKL	HY/2012/08	2019-11-11	Mid-Flood	SR4a	Fine	Calm	16:43	4.2	Surface	1	2	25.6	8.4	33.3	11.3	2.3	4.3
TMCLKL	HY/2012/08	2019-11-11	Mid-Flood	SR4a	Fine	Calm	16:43	4.2	Middle	2	1						
TMCLKL	HY/2012/08	2019-11-11	Mid-Flood	SR4a	Fine	Calm	16:43	4.2	Middle	2	2			22.4			
TMCLKL	HY/2012/08	2019-11-11	Mid-Flood	SR4a	Fine	Calm	16:43	4.2	Bottom	3	1	25.3	8.3	32.4	9.9	3.9	7.7
TMCLKL	HY/2012/08	2019-11-11	Mid-Flood	SR4a	Fine	Calm	16:43	4.2	Bottom	3	2	25.3	8.3	33.4	10	3.3	7.5
TMCLKL	HY/2012/08	2019-11-11	Mid-Flood	SR4(N2)	Fine	Calm	16:37	4	Surface	1	11	25.5	8.3	32.1	10.6	3.3	6.4
TMCLKL	HY/2012/08	2019-11-11	Mid-Flood	SR4(N2)	Fine	Calm	16:37	4	Surface	1	2	25.5	8.3	33	10.5	2.9	7.1
TMCLKL	HY/2012/08	2019-11-11	Mid-Flood	SR4(N2)	Fine	Calm	16:37	4	Middle	2	17		+				
TMCLKL	HY/2012/08	2019-11-11	Mid-Flood	SR4(N2)	Fine	Calm	16:37	4	Middle	2	2	05.0	10.0	00.4	0.0	0.4	
TMCLKL	HY/2012/08	2019-11-11	Mid-Flood	SR4(N2)	Fine	Calm	16:37	4	Bottom	3	17	25.3	8.3	32.4	9.2	3.4	8.9
TMCLKL	HY/2012/08	2019-11-11	Mid-Flood	SR4(N2)	Fine	Calm	16:37	4	Bottom	3	2	25.3	8.3	33.4	9.1	3.5	9.6
TMCLKL	HY/2012/08	2019-11-11	Mid-Flood	IS8(N)	Fine	Calm	16:30	3.6	Surface	1	11	25.6	8.4	32.3	11.6	2.5	5.7
TMCLKL	HY/2012/08	2019-11-11	Mid-Flood	IS8(N)	Fine	Calm	16:30	3.6	Surface	1	2	25.6	8.4	33.3	11.6	2.6	5.6
TMCLKL	HY/2012/08	2019-11-11	Mid-Flood	IS8(N)	Fine	Calm	16:30	3.6	Middle	2	1		-				
TMCLKL	HY/2012/08	2019-11-11	Mid-Flood	IS8(N)	Fine	Calm	16:30	3.6	Middle	2	2	05.5		20.4	44	4	
TMCLKL	HY/2012/08	2019-11-11	Mid-Flood	IS8(N)	Fine	Calm	16:30	3.6	Bottom	3	1	25.5	8.3	32.4	11	4	6.3
TMCLKL	HY/2012/08	2019-11-11	Mid-Flood	IS8(N)	Fine	Calm	16:30	3.6	Bottom	3	2	25.5	8.4	33.4	11	3.6	6.4
TMCLKL	HY/2012/08	2019-11-11	Mid-Flood	IS(Mf)9	Fine	Calm	16:23	3.1	Surface	1	1	25.4	8.3	32.4	9.9	5.5	8.8
TMCLKL	HY/2012/08	2019-11-11	Mid-Flood	IS(Mf)9	Fine	Calm	16:23	3.1	Surface	1	2	25.4	8.3	33.3	9.9	4.8	8.5
TMCLKL	HY/2012/08	2019-11-11	Mid-Flood	IS(Mf)9	Fine	Calm		3.1	Middle	2	1		+				
TMCLKL TMCLKL	HY/2012/08 HY/2012/08	2019-11-11	Mid-Flood Mid-Flood	IS(Mf)9	Fine Fine	Calm Calm	16:23 16:23	3.1	Middle Bottom	2	1	25.4	8.2	32.4	0.7	6.2	10.7
	HY/2012/08	2019-11-11		IS(Mf)9	Fine	Calm		3.1	Bottom	3	12	25.4	8.3	33.3	9.7	6.3 5.7	10.7
TMCLKL TMCLKL	HY/2012/08	2019-11-11	Mid-Flood Mid-Flood	IS(Mf)9 IS(Mf)11	Cloudy	Moderate	17:08	10.9	Surface	3	1	25.4	8.4	32.3	9.7	3.6	4.8
TMCLKL	HY/2012/08	2019-11-11	Mid-Flood	IS(Mf)11	Cloudy	Moderate	17:08	10.9	Surface	1	2	25.3	8.3	33.3	9.9	3.1	5.5
TMCLKL	HY/2012/08	2019-11-11	Mid-Flood	IS(Mf)11	Cloudy	Moderate	17:08	10.9	Middle	2	1	25.2	8.4	32.4	9.9	4.7	6.1
TMCLKL	HY/2012/08	2019-11-11	Mid-Flood	IS(Mf)11	Cloudy	Moderate	17:08	10.9	Middle	2	2	25.3	8.3	33.4	9.1	4.7	5.7
TMCLKL	HY/2012/08	2019-11-11	Mid-Flood	IS(Mf)11	Cloudy	Moderate	17:08	10.9	Bottom	2	1	25.2	8.4	32.4	8.9	6.1	8.6
TMCLKL	HY/2012/08	2019-11-11	Mid-Flood	IS(Mf)11	Cloudy	Moderate	17:08	10.9	Bottom	2	2	25.2	8.3	33.4	8.9	5.4	8.2
TMCLKL	HY/2012/08	2019-11-11	Mid-Flood	SR7	Cloudy	Moderate	18:09	4.9	Surface	1	1	25.2	8.2	32.5	8.9	J.4 4	7
TMCLKL	HY/2012/08	2019-11-11	Mid-Flood	SR7	Cloudy	Moderate	18:09	4.9	Surface	1	2	25.2	8.3	33.5	8.9	3.2	6.8
TMCLKL	HY/2012/08	2019-11-11	Mid-Flood	SR7	Cloudy	Moderate		4.9	Middle	2	1	25.2	0.5	33.3	0.9	3.2	0.0
TMCLKL	HY/2012/08	2019-11-11	Mid-Flood	SR7	Cloudy	Moderate	18:09	4.9	Middle	2	12		+	1		+	
TMCLKL	HY/2012/08	2019-11-11	Mid-Flood	SR7	Cloudy	Moderate		4.9	Bottom	3	1	25.2	8.2	32.5	8.7	4.6	7.4
TMCLKL	HY/2012/08	2019-11-11	Mid-Flood	SR7	Cloudy	Moderate	18:09	4.9	Bottom	3	2	25.2	8.3	33.5	8.7	4.3	7.3
TMCLKL	HY/2012/08	2019-11-11	Mid-Flood	IS17	Cloudy	Moderate	17:00	10.5	Surface	1	1	25.4	8.5	32.4	10.7	1.9	9.3
TMCLKL	HY/2012/08	2019-11-11	Mid-Flood	IS17	Cloudy	Moderate	17:00	10.5	Surface	1	2	25.4	8.4	33.3	10.7	1.7	9
TMCLKL	HY/2012/08	2019-11-11	Mid-Flood	IS17	Cloudy	Moderate	17:00	10.5	Middle	2	1	25.4	8.4	32.4	10.7	2.5	9.6
TMCLKL	HY/2012/08	2019-11-11	Mid-Flood	IS17	Cloudy	Moderate	17:00	10.5	Middle	2	2	25.4	8.4	33.4	10.6	2.2	10.1
TMCLKL	HY/2012/08	2019-11-11	Mid-Flood	IS17	Cloudy	Moderate	17:00	10.5	Bottom	3	1	25.2	8.3	32.5	8.6	4.6	9.9
TMCLKL	HY/2012/08	2019-11-11	Mid-Flood	IS17	Cloudy	Moderate	17:00	10.5	Bottom	3	12	25.3	8.2	33.4	8.7	3.9	10.2
TMCLKL	HY/2012/08	2019-11-13	Mid-Ebb	CS(Mf)5	Cloudy	Moderate	12:00	11.7	Surface	1	1	25.3	8	33.6	8.2	2.1	3.4
TMCLKL	HY/2012/08	2019-11-13	Mid-Ebb	CS(Mf)5	Cloudy	Moderate	12:00	11.7	Surface	11	2	25.3	8.1	32.5	8.2	2.4	3.2
TMCLKL	HY/2012/08	2019-11-13	Mid-Ebb	CS(Mf)5	Cloudy	Moderate	12:00	11 7	Middle	2	1	25.3	8.1	33.8	7.2	4.5	3.6
TMCLKL	HY/2012/08	2019-11-13	Mid-Ebb	CS(Mf)5	Cloudy	Moderate	12:00	11.7	Middle	2	2	25.3	8	32.8	7.2	4.4	4
TMCLKL	HY/2012/08	2019-11-13	Mid-Ebb	CS(Mf)5	Cloudy	Moderate	12:00	11.7	Bottom	3	1	25.3	8.1	33.9	7.2	6.1	5.7
TMCLKL	HY/2012/08	2019-11-13	Mid-Ebb	CS(Mf)5	Cloudy	Moderate	12:00	11.7	Bottom	3	2	25.3	8	32.9	7.1	7	5.6
TMCLKL	HY/2012/08	2019-11-13	Mid-Ebb	CS(Mf)3(N)	Cloudy	Moderate	12:59	7.2	Surface	1	1	24.9	7.9	32.8	8.9	3.3	2.2
	HY/2012/08	2019-11-13	Mid-Ebb	CS(Mf)3(N)		Moderate		7.2	Surface	11	2	24.9	7.9	31.8	9	3.5	2.5
TMCLKL	HY/2012/08	2019-11-13	Mid-Ebb	CS(Mf)3(N)	Cloudy	Moderate		7.2	Middle	2	1 -	24.9	7.9	33	8.3	4.4	3
	HY/2012/08	2019-11-13	Mid-Ebb	CS(Mf)3(N)		Moderate	_	-	Middle	2	2	24.8		32	8.2	4.7	2.5
INOLIVE	1111/2012/00	1-010 11-10	IMM EDD		Joioudy	Introductate	12.00	11.4	Imagic	<u> -</u>	1-	1- 1.0	1,.0	102	٠.٢	1	12.0

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Project	Contract	Date	Tide	Stat	Weather	Condition	Time	Depth	Level	Lev_Cod	Replicate	Temp(°C)	рН	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)
TMCLKL	HY/2012/08	2019-11-13	Mid-Ebb	CS(Mf)3(N)	Cloudy	Moderate	12:59		Bottom	2	1	24.8	7.9	33.3	8.2	6.3	3.6
				· · · · ·	Cloudy			7.2	1	ა ი	2	+				6.4	
TMCLKL	HY/2012/08	2019-11-13	Mid-Ebb	CS(Mf)3(N)	Cloudy	Moderate	12:59	7.2	Bottom	3	4	24.8	7.9	32.3	8.1		3.1
TMCLKL	HY/2012/08	2019-11-13	Mid-Ebb	IS(Mf)16	Cloudy	Moderate	13:38	5.3	Surface	1	2	25.2	8.1	33.5	10	3	3.9
TMCLKL	HY/2012/08	2019-11-13	Mid-Ebb	IS(Mf)16	Cloudy	Moderate	13:38	5.3	Surface	1	2	25.2	8.1	32.5	10	3.1	4.3
	HY/2012/08	2019-11-13	Mid-Ebb	IS(Mf)16		Moderate	13:38	5.3	Middle	2	1				1		
	HY/2012/08	2019-11-13	Mid-Ebb	IS(Mf)16	Cloudy	Moderate	13:38	5.3	Middle	2	2		_				
TMCLKL	HY/2012/08	2019-11-13	Mid-Ebb	IS(Mf)16	Cloudy	Moderate	13:38	5.3	Bottom	3	1	24.9	8	33.5	9.1	6.1	3.9
TMCLKL	HY/2012/08	2019-11-13	Mid-Ebb	IS(Mf)16	Cloudy	Moderate	13:38	5.3	Bottom	3	2	24.9	8.1	32.5	9.1	6.7	4
TMCLKL	HY/2012/08	2019-11-13	Mid-Ebb	SR4a	Cloudy	Moderate	13:48	4.8	Surface	1	1	25.1	8	33.4	10.2	3.6	5
TMCLKL	HY/2012/08	2019-11-13	Mid-Ebb	SR4a	Cloudy	Moderate	13:48	4.8	Surface	1	2	25.1	8	32.4	10.4	3.9	4.9
TMCLKL	HY/2012/08	2019-11-13	Mid-Ebb	SR4a	Cloudy	Moderate	13:48	4.8	Middle	2	1						
TMCLKL	HY/2012/08	2019-11-13	Mid-Ebb	SR4a	Cloudy	Moderate	13:48	4.8	Middle	2	2						
TMCLKL	HY/2012/08	2019-11-13	Mid-Ebb	SR4a	Cloudy	Moderate	13:48	4.8	Bottom	3	1	25	8	33.4	9.2	4.6	2.9
TMCLKL	HY/2012/08	2019-11-13	Mid-Ebb	SR4a	Cloudy	Moderate	13:48	4.8	Bottom	3	2	24.9	8	32.4	9.1	4.2	3.1
TMCLKL	HY/2012/08	2019-11-13	Mid-Ebb	SR4(N2)		Moderate	13:53	3.5	Surface	1	1	25.4	8.1	33.4	10.7	2.2	3.5
TMCLKL	HY/2012/08	2019-11-13	Mid-Ebb	SR4(N2)	Cloudy	Moderate	13:53	3.5	Surface	1	2	25.4	8.1	32.4	10.7	2.5	3.4
	HY/2012/08	2019-11-13	Mid-Ebb	SR4(N2)	Cloudy	Moderate	13:53	3.5	Middle	2	1						
TMCLKL	HY/2012/08	2019-11-13	Mid-Ebb	SR4(N2)	Cloudy	Moderate	13:53	3.5	Middle	2	2		1				
	HY/2012/08	2019-11-13	Mid-Ebb	SR4(N2)	Cloudy	Moderate	13:53	3.5	Bottom	3	1	25.3	8.1	33.4	10.3	2.2	3.6
TMCLKL	HY/2012/08	2019-11-13	Mid-Ebb	SR4(N2)	Cloudy	Moderate	13:53	3.5	Bottom	3	2	25.3	8.1	32.4	10.2	2.5	3.9
TMCLKL	HY/2012/08	2019-11-13	Mid-Ebb	IS8(N)	Cloudy	Moderate	14:00	3.8	Surface	1	1	25.4	8.1	33.4	10.2	2.8	4.3
TMCLKL	HY/2012/08 HY/2012/08	2019-11-13	Mid-Ebb	IS8(N)			14:00		Surface	1	2	25.4		32.4	10.6	2.8	4.8
					Cloudy	Moderate		3.8	+	1	4	25.4	8.1	32.4	10.7	2.8	4.8
TMCLKL	HY/2012/08	2019-11-13	Mid-Ebb	IS8(N)	Cloudy	Moderate	14:00	3.8	Middle	2]1 2		+				
TMCLKL	HY/2012/08	2019-11-13	Mid-Ebb	IS8(N)	Cloudy	Moderate	14:00	3.8	Middle	2	2	2-2		100.4	1.0 -		_
TMCLKL	HY/2012/08	2019-11-13	Mid-Ebb	IS8(N)	Cloudy	Moderate	14:00	3.8	Bottom	3	1	25.3	8.1	33.4	10.5	2.8	5.1
	HY/2012/08	2019-11-13	Mid-Ebb	IS8(N)	Cloudy	Moderate	14:00	3.8	Bottom	3	2	25.3	8.1	32.4	10.4	3.2	5.9
TMCLKL	HY/2012/08	2019-11-13	Mid-Ebb	IS(Mf)9	Cloudy	Moderate	14:09	3.4	Surface	1	1	25.2	8	33.6	9.1	3.3	3.6
TMCLKL	HY/2012/08	2019-11-13	Mid-Ebb	IS(Mf)9	Cloudy	Moderate	14:09	3.4	Surface	1	2	25.2	8	32.6	9.3	3.8	3.9
TMCLKL	HY/2012/08	2019-11-13	Mid-Ebb	IS(Mf)9	Cloudy	Moderate	14:09	3.4	Middle	2	1						
TMCLKL	HY/2012/08	2019-11-13	Mid-Ebb	IS(Mf)9	Cloudy	Moderate	14:09	3.4	Middle	2	2						
TMCLKL	HY/2012/08	2019-11-13	Mid-Ebb	IS(Mf)9	Cloudy	Moderate	14:09	3.4	Bottom	3	1	25	8	33.6	8.4	4.5	5.5
TMCLKL	HY/2012/08	2019-11-13	Mid-Ebb	IS(Mf)9	Cloudy	Moderate	14:09	3.4	Bottom	3	2	25	8	32.6	8.7	4.8	5.4
	HY/2012/08	2019-11-13	Mid-Ebb	IS(Mf)11	Cloudy	Moderate	13:23	12.6	Surface	1	1	25.5	8	33.2	9.8	1.8	4
	HY/2012/08	2019-11-13	Mid-Ebb	IS(Mf)11	Cloudy	Moderate	13:23	12.6	Surface	1	2	25.5	8	32.2	10	1.7	3.8
	HY/2012/08	2019-11-13	Mid-Ebb	IS(Mf)11	Cloudy	Moderate	13:23	12.6	Middle	2	1	25	7.9	33.3	8.6	4.7	4.6
	HY/2012/08	2019-11-13	Mid-Ebb	IS(Mf)11	Cloudy	Moderate	13:23	12.6	Middle	2	2	25	8	32.3	8.6	5.1	5.2
	HY/2012/08	2019-11-13	Mid-Ebb	IS(Mf)11	Cloudy	Moderate	13:23	12.6	Bottom	2	1	24.9	7.9	33.3	8.5	9.6	4.7
	HY/2012/08	2019-11-13	Mid-Ebb	IS(Mf)11	Cloudy		13:23	12.6	Bottom	2	2	24.9	8	32.3	8.5	9.8	5.1
						Moderate				3	4		_		0.5		3.1
	HY/2012/08	2019-11-13	Mid-Ebb	SR7	Cloudy	Moderate	12:25	4.7	Surface	1	0	25.2	8	33.3	9	2.8	4
	HY/2012/08	2019-11-13	Mid-Ebb	SR7	Cloudy	Moderate	12:25	4.7	Surface	1	2	25.1	8.1	32.3	9.1	3.1	3.5
	HY/2012/08	2019-11-13	Mid-Ebb	SR7	Cloudy	Moderate	12:25	4.7	Middle	2	1				ļ		
	HY/2012/08	2019-11-13	Mid-Ebb	SR7	Cloudy	Moderate	12:25	4.7	Middle	2	2		1	1000		1	
	HY/2012/08	2019-11-13	Mid-Ebb	SR7	Cloudy	Moderate	12:25	4.7	Bottom	3	1	25.1	8	33.3	8.8	4.4	3.7
	HY/2012/08	2019-11-13	Mid-Ebb	SR7	Cloudy	Moderate	12:25	4.7	Bottom	3	2	25.1	8.1	32.3	9	4	4.3
	HY/2012/08	2019-11-13	Mid-Ebb	IS17	Cloudy	Moderate	13:30	7.5	Surface	1	1	25.1	8	33.3	9.3	2.8	4.8
	HY/2012/08	2019-11-13	Mid-Ebb	IS17	Cloudy	Moderate	13:30	7.5	Surface	1	2	25.1	8	32.3	9.3	3	4.6
TMCLKL	HY/2012/08	2019-11-13	Mid-Ebb	IS17	Cloudy	Moderate	13:30	7.5	Middle	2	1	25.1	8	33.3	9.2	2.8	4.9
TMCLKL	HY/2012/08	2019-11-13	Mid-Ebb	IS17	Cloudy	Moderate	13:30	7.5	Middle	2	2	25.1	8	32.3	9.2	3	5.4
TMCLKL	HY/2012/08	2019-11-13	Mid-Ebb	IS17	Cloudy	Moderate	13:30	7.5	Bottom	3	1	25.1	8	33.3	9.1	3.1	6.5
	HY/2012/08	2019-11-13	Mid-Ebb	IS17	Cloudy	Moderate	13:30	7.5	Bottom	3	2	25.1	8	32.3	9.1	3.1	6.2
	HY/2012/08	2019-11-13	Mid-Flood	CS(Mf)5	Cloudy	Moderate	19:17	12.5	Surface	1	1	25.2	8	33.3	8.7	1.4	4.1
	HY/2012/08	2019-11-13	Mid-Flood	CS(Mf)5	Cloudy	Moderate	19:17	12.5	Surface	1	2	25.2	8.1	32.3	8.7	1.3	3.9
	HY/2012/08	2019-11-13	Mid-Flood	CS(Mf)5	Cloudy	Moderate	19:17	12.5	Middle	2	1	25.2	7.9	33.5	8.2	3.8	4.2
	HY/2012/08	2019-11-13	Mid-Flood	CS(Mf)5	Cloudy	Moderate	19:17	12.5	Middle	2	2	25.2	8.1	32.5	8.2	3.8	4 7
	HY/2012/08	2019-11-13	Mid-Flood	CS(Mf)5	Cloudy	Moderate	19:17	12.5	Bottom	3	1	25.2	7.9	33.5	8.1	7.2	5.4
			+						1	2	2				-		_
	HY/2012/08	2019-11-13	Mid-Flood	CS(Mf)5	Cloudy	Moderate	19:17	12.5	Bottom	3	<u> </u>	25.2	8.1	32.5	8.1	7.5	5.5
	HY/2012/08	2019-11-13	Mid-Flood	CS(Mf)3(N)	Cloudy	Moderate	18:17	7.3	Surface	1	11	25.4	8 8	32.2	9.6	3.1	3.3
	HY/2012/08	2019-11-13	Mid-Flood	CS(Mf)3(N)	Cloudy	Moderate	18:17	7.3	Surface	1	2	25.4	8.2	31.2	9.7	3.1	3.7
	HY/2012/08		Mid-Flood		Cloudy	Moderate		7.3	Middle	2	1	25.3	8	32.4	9.3	4.3	4.7
	11 13 //0 0 / 0 / 0 0	2019-11-13	Mid-Flood	CS(Mf)3(N)	Cloudy	Moderate	18:17	7.3	Middle	2	12	25.3	8.2	31.4	9.4	4.5	4.4
	HY/2012/08 HY/2012/08	2019-11-13		CS(Mf)3(N)		Moderate	18:17	_		3		25.3	8	32.5	9.3	4.7	6.8

	1	1	Ī	Ī	T	Sea	Ι	Water	I	T	T	Ī		1	1	Τ	
Project	Contract	Date	Tide	Stat	Weather	Condition	Time	Depth	Level	Lev_Cod	Replicate	Temp(°C)	рН	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)
TMCLKL	HY/2012/08	2019-11-13	Mid-Flood	CS(Mf)3(N)	Cloudy	Moderate	18:17	7.3	Bottom	3	2	25.3	8.2	31.5	9.3	5.1	6.5
	HY/2012/08	2019-11-13	Mid-Flood	IS(Mf)16	Cloudy	Moderate		5.3	Surface	1	1	25.3	8.1	33.4	10.2	4.9	4.6
	HY/2012/08	2019-11-13	Mid-Flood	IS(Mf)16	Cloudy	Moderate		5.3	Surface	1	2	25.2	8.1	32.4	10.1	4.4	4.9
TMCLKL	HY/2012/08	2019-11-13	Mid-Flood	IS(Mf)16	Cloudy	Moderate	17:36	5.3	Middle	2	1	25.2	0.1	32.4	10.1	1 	4.3
	HY/2012/08	2019-11-13	Mid-Flood	IS(Mf)16	Cloudy	Moderate		5.3	Middle	2	2						+
TMCLKL	HY/2012/08	2019-11-13	Mid-Flood	IS(Mf)16	Cloudy	Moderate		5.3	Bottom	3	1	25.3	8.1	33.5	9.4	7.8	6.4
TMCLKL	HY/2012/08	2019-11-13	Mid-Flood	IS(Mf)16	Cloudy	Moderate		5.3	Bottom	3	2	25.2	8.1	32.5	9.3	7.6	7.1
	HY/2012/08	2019-11-13		SR4a	Cloudy	Moderate	17:26	4.7	Surface	1	1	25.2	8.1	33.4	10.6	3.6	3.8
	HY/2012/08	2019-11-13		SR4a	Cloudy	Moderate		4.7	Surface	1	2	25.3	8.1	32.4	10.8	4.1	4.2
	HY/2012/08	2019-11-13		SR4a	Cloudy	Moderate			Middle	2	1	20.0	0.1	32.4	10.0	4. 1	4.2
TMCLKL	HY/2012/08	2019-11-13	Mid-Flood	SR4a	Cloudy	Moderate		4.7	Middle	2	2						
	HY/2012/08	2019-11-13	Mid-Flood	SR4a	Cloudy	Moderate		4.7	Bottom	2	1	25	Q	33.4	10	4.9	4.3
TMCLKL	HY/2012/08	2019-11-13	Mid-Flood	SR4a	Cloudy	Moderate		4.7	Bottom	3	2	25	8.1	32.4	10	5	4.8
TMCLKL	HY/2012/08	2019-11-13		SR4(N2)	Cloudy	Moderate			Surface	1	1	25.1	8	33.3	9.9	6.8	4.0 5
TMCLKL	HY/2012/08	2019-11-13	Mid-Flood	SR4(N2)	Cloudy	Moderate		3.8	Surface	1	12	25.1	8	32.3	10.1	6.6	5
	HY/2012/08	2019-11-13	Mid-Flood	SR4(N2)		Moderate		3.8	Middle	2	1	25.1	0	32.3	10.1	0.0	3
				<u> </u>	Cloudy					2	11		+				+
	HY/2012/08	2019-11-13		SR4(N2)	Cloudy	Moderate		3.8	Middle	2	1	25.4	0	22.2	0.4	6.5	6.0
TMCLKL	HY/2012/08	2019-11-13	Mid-Flood	SR4(N2)	Cloudy	Moderate		3.8	Bottom	2	12	25.1	0	33.3	9.4	6.5	6.9
	HY/2012/08	2019-11-13	Mid-Flood	SR4(N2)	Cloudy	Moderate		3.8	Bottom	1	1	25	8	32.3	9.3	2.1	6.8
TMCLKL	HY/2012/08	2019-11-13	Mid-Flood	IS8(N)	Cloudy	Moderate		3.5	Surface	1	1	25.3	8.1	33.4		3.1	7
	HY/2012/08	2019-11-13	Mid-Flood	IS8(N)	Cloudy	Moderate			Surface	1	1	25.3	8.1	32.4	10.8	3.1	6.6
	HY/2012/08	2019-11-13	Mid-Flood	IS8(N)	Cloudy	Moderate		3.5	Middle	2	1						
	HY/2012/08	2019-11-13	Mid-Flood	IS8(N)	Cloudy	Moderate		3.5	Middle	2	2	05.0	0.4	100.4	10.4	0.0	7.0
TMCLKL	HY/2012/08	2019-11-13	Mid-Flood	IS8(N)	Cloudy	Moderate		3.5	Bottom	3	10	25.3	8.1	33.4	10.4	3.8	7.2
TMCLKL	HY/2012/08	2019-11-13	Mid-Flood	IS8(N)	Cloudy	Moderate		3.5	Bottom	3	2	25.2	8.1	32.4	10.6	3.4	7.4
	HY/2012/08	2019-11-13	Mid-Flood	IS(Mf)9	Cloudy	Moderate		3.2	Surface	1	1	25.2	8	33.6	9.5	7.6	7.2
TMCLKL	HY/2012/08	2019-11-13	Mid-Flood	IS(Mf)9	Cloudy	Moderate		3.2	Surface	1	2	25.2	8.1	32.6	9.5	7.7	7.1
	HY/2012/08	2019-11-13	Mid-Flood	IS(Mf)9	Cloudy	Moderate		3.2	Middle	2	1		_				
	HY/2012/08	2019-11-13	Mid-Flood	IS(Mf)9	Cloudy	Moderate		3.2	Middle	2	2	05.0		00.0	0.4	0.0	7.0
	HY/2012/08	2019-11-13		IS(Mf)9	Cloudy	Moderate		3.2	Bottom	3	1	25.2	8	33.6	9.4	8.3	7.2
	HY/2012/08	2019-11-13		IS(Mf)9	Cloudy	Moderate		3.2	Bottom	3	2	25.1	8.1	32.6	9.4	8.3	7.4
	HY/2012/08	2019-11-13		IS(Mf)11	Cloudy	Moderate		12.4	Surface	1	1	25.2	8	33.1	9.8	2.9	5.8
	HY/2012/08		Mid-Flood	IS(Mf)11	Cloudy	Moderate		12.4	Surface	1	2	25.2	8.2	32.1	9.8	2.6	6.6
	HY/2012/08	2019-11-13	Mid-Flood	IS(Mf)11	Cloudy	Moderate	17:51	12.4	Middle	2	1	25.2	8	33.2	9.9	4.5	0
	HY/2012/08	2019-11-13	Mid-Flood	IS(Mf)11	Cloudy	Moderate	17:51	12.4	Middle	2	2	25.2	8.2	32.2	9.9	4.7	6.3
	HY/2012/08	2019-11-13	Mid-Flood	IS(Mf)11	Cloudy	Moderate	17:51	12.4	Bottom	3	1	25.2	8.2	33.3	9.8	5.5	6.3
	HY/2012/08	2019-11-13		IS(Mf)11	Cloudy	Moderate	17:51	12.4	Bottom	3	2	25.2		32.3	9.8	5.9	5.9
	HY/2012/08	2019-11-13		SR7	Cloudy	Moderate	18:53	4.3	Surface	1	11	25.2	8	33	8.8	3.3	4.7
	HY/2012/08	2019-11-13		SR7	Cloudy	Moderate	18:53	4.3	Surface	1	4	25.1	8.2	32	8.9	3.2	4.5
	HY/2012/08	2019-11-13		SR7	Cloudy	Moderate	18:53	4.3	Middle	2	11	<u> </u>				-	
	HY/2012/08 HY/2012/08	2019-11-13		SR7 SR7	Cloudy Cloudy	Moderate Moderate		4.3	Middle Bottom	2	1	25.2	8	33	8.6	4.5	5.3
	HY/2012/08 HY/2012/08	2019-11-13		SR7	Cloudy	Moderate Moderate		4.3	Bottom	3	2	25.2	8.2	33	8.8	4.4	5.7
	HY/2012/08	2019-11-13		IS17	Cloudy	Moderate Moderate		7.2	Surface	1	1	25.2	8	32	9.7	2.9	4.4
	HY/2012/08	2019-11-13		IS17	Cloudy	Moderate	17:43	7.2	Surface	1	2	25.2	8.1	32.1	9.7	2.9	4.4
	HY/2012/08	2019-11-13		IS17	Cloudy	Moderate		7.2	Middle	2	1	25.2	8	33.1	9.7	3.3	5.4
	HY/2012/08	2019-11-13		IS17	Cloudy	Moderate	17:43	7.2	Middle	2	2	25.2	8.1	32.1	9.5	3.4	5.3
	HY/2012/08	2019-11-13		IS17	Cloudy	Moderate		7.2	Bottom	3	1	25.2	8	33.1	9.8	4.6	6.2
	HY/2012/08	2019-11-13		IS17	Cloudy	Moderate		7.2	Bottom	3	2	25.1	8.1	32.1	9.3	4.6	7
	HY/2012/08	2019-11-13	Mid-Flood	CS(Mf)5	Fine	Moderate	14:58	12.6	Surface	1	1	25.2	8.1	33.2	8.9	1.9	3.2
	HY/2012/08	2019-11-15		CS(Mf)5	Fine	Moderate	14:58	12.6	Surface	1	2	25.2	8.1	32.2	8.9	1.8	3.2
	HY/2012/08	2019-11-15	Mid-Ebb	CS(Mf)5	Fine	Moderate	14:58	12.6	Middle	2	1	25.1	8.1	33.4	7.9	2.4	1
	HY/2012/08	2019-11-15		CS(Mf)5	Fine	Moderate	14:58	12.6	Middle	2	2	25.1	7.9	32.4	7.9	2.8	1 1
	HY/2012/08	2019-11-15	Mid-Ebb	CS(Mf)5	Fine	Moderate	14:58	12.6	Bottom	3	1	25.1	8	33.6	7.6	5.7	4.1
	HY/2012/08	2019-11-15	Mid-Ebb	CS(Mf)5	Fine	Moderate	14:58	12.6	Bottom	3	2	25.1	7.9	32.6	7.5	5.3	4.9
	HY/2012/08			CS(Mf)3(N)	Fine	Moderate	14:58	7	Surface	1	1	25.1	8	31.3	9.1	2.5	2
	HY/2012/08	2019-11-15	Mid-Ebb	CS(Mf)3(N)	Fine	Moderate	14:11	7	Surface	1	2	25.2	8.1	32.2	9.1	2.5	3.3
	HY/2012/08	2019-11-15		CS(Mf)3(N)			14:11	7	Middle	2	1	†	Ω.1	31.4	8.9	2.3	3.4
	HY/2012/08				Fine Fine	Moderate Moderate	14:11	7	Middle	2	12	25 25.1	8.1	31.4	ο. ૭	2.3	3.4
	HY/2012/08		Mid-Ebb	CS(Mf)3(N) CS(Mf)3(N)		Moderate		7	Bottom	2	1	24.8	7.9	31.9	8.4	5.3	3.7
								ļ'.	-	2	12	24.8	8.1		8.5	5.2	3.9
LIVICENE	111/2012/00	12019-11-13	Mid-Ebb	CS(Mf)3(N)	li ille	Moderate	14:11	1	Bottom	ام	_	24.0	JO. 1	32.9	[ಠ.ʊ	JJ.2	J3.1

Project	Contract	Date	Tide	Stat	Weather	Sea	Time	Water	Level	Lev_Cod	Replicate	Temp(°C)	рН	Salinity/ppt)	DO(ma/L)	Turbidity(NTU)	SS(mg/L)
		Date				Condition		Depth	LEVEI	Lev_Cou	Replicate		<u> </u>	Salinity(ppt)	DO(mg/L)	Turbiuity(NTO)	33(IIIg/L)
TMCLKL	HY/2012/08	2019-11-15	Mid-Ebb	IS(Mf)16	Fine	Moderate		5.8	Surface	1	1	25.2	8.2	33.1	9.8	2.5	4.2
TMCLKL	HY/2012/08	2019-11-15	Mid-Ebb	IS(Mf)16	Fine	Moderate		5.8	Surface	1	2	25.2	8	32.1	9.8	2.3	3.7
TMCLKL	HY/2012/08	2019-11-15	Mid-Ebb	IS(Mf)16	Fine	Moderate		5.8	Middle	2	1						
TMCLKL	HY/2012/08	2019-11-15	Mid-Ebb	IS(Mf)16	Fine	Moderate		5.8	Middle	2	2						
TMCLKL	HY/2012/08	2019-11-15	Mid-Ebb	IS(Mf)16	Fine	Moderate		5.8	Bottom	3	1	25	8.1	33.1	9.1	3.2	5.2
TMCLKL	HY/2012/08	2019-11-15	Mid-Ebb	IS(Mf)16	Fine	Moderate		5.8	Bottom	3	2	25	8	32.1	9	3.5	5
TMCLKL	HY/2012/08	2019-11-15	Mid-Ebb	SR4a	Fine	Calm		4.4	Surface	1	1	25.1	8.2	33.1	10.1	2.9	3.2
TMCLKL	HY/2012/08	2019-11-15	Mid-Ebb	SR4a	Fine	Calm		4.4	Surface	1	2	25.1	8	32.1	10	2.8	3.4
TMCLKL	HY/2012/08	2019-11-15	Mid-Ebb	SR4a	Fine	Calm		4.4	Middle	2	1						
TMCLKL	HY/2012/08	2019-11-15	Mid-Ebb	SR4a	Fine	Calm		4.4	Middle	2	2						
TMCLKL	HY/2012/08	2019-11-15	Mid-Ebb	SR4a	Fine	Calm		4.4	Bottom	3	1	24.9	8.2	33.1	9.3	3.6	3.7
TMCLKL	HY/2012/08	2019-11-15	Mid-Ebb	SR4a	Fine	Calm		4.4	Bottom	3	2	24.9	8	32.1	9.2	3.8	4.1
TMCLKL	HY/2012/08	2019-11-15	Mid-Ebb	SR4(N2)	Fine	Calm		4.1	Surface	1	1	25.3	8.2	33.1	9.9	2.4	3.5
TMCLKL	HY/2012/08	2019-11-15	Mid-Ebb	SR4(N2)	Fine	Calm	13:06	4.1	Surface	1	2	25.3	8	32.1	9.8	2.4	3
TMCLKL	HY/2012/08	2019-11-15	Mid-Ebb	SR4(N2)	Fine	Calm	13:06	4.1	Middle	2	1						
TMCLKL	HY/2012/08	2019-11-15	Mid-Ebb	SR4(N2)	Fine	Calm	13:06	4.1	Middle	2	2	105		00.4	0.4		
TMCLKL	HY/2012/08	2019-11-15	Mid-Ebb	SR4(N2)	Fine	Calm		4.1	Bottom	3	11	25	8.2	33.1	9.4	3.8	5.6
TMCLKL	HY/2012/08	2019-11-15	Mid-Ebb	SR4(N2)	Fine	Calm		4.1	Bottom	3	2	24.9	8.2	32.2	9.3	3.7	5.3
TMCLKL	HY/2012/08	2019-11-15	Mid-Ebb	IS8(N)	Fine	Calm		3.7	Surface	1	1	25.4	8.2	33.1	9.8	2.8	4.7
TMCLKL	HY/2012/08	2019-11-15	Mid-Ebb	IS8(N)	Fine	Calm		3.7	Surface	1	2	25.3	8	32.1	9.7	3.3	5.2
TMCLKL	HY/2012/08	2019-11-15	Mid-Ebb	IS8(N)	Fine	Calm		3.7	Middle	2	1		+	-		-	
TMCLKL	HY/2012/08	2019-11-15	Mid-Ebb	IS8(N)	Fine	Calm		3.7	Middle	2	2	05.0	10.0	00.4	0.0	0.5	
TMCLKL	HY/2012/08	2019-11-15	Mid-Ebb	IS8(N)	Fine	Calm		3.7	Bottom	3	11	25.2	8.2	33.1	9.9	3.5	5.4
TMCLKL	HY/2012/08	2019-11-15	Mid-Ebb	IS8(N)	Fine	Calm		3.7	Bottom	3	2	25.2	8.2	32.2	9.8	3.9	4.9
TMCLKL	HY/2012/08	2019-11-15	Mid-Ebb	IS(Mf)9	Fine	Calm		3.2	Surface	1	11	25.1	8.2	33.1	9.7	3.3	5.5
TMCLKL	HY/2012/08	2019-11-15	Mid-Ebb	IS(Mf)9	Fine	Calm		3.2	Surface	1	2	25.1	8	32.2	9.7	3	5.2
TMCLKL	HY/2012/08	2019-11-15	Mid-Ebb	IS(Mf)9	Fine	Calm		3.2	Middle	2	1		-				
TMCLKL	HY/2012/08	2019-11-15	Mid-Ebb	IS(Mf)9	Fine	Calm		3.2	Middle	2	2	105.4		00.0			
TMCLKL	HY/2012/08	2019-11-15	Mid-Ebb	IS(Mf)9	Fine	Calm		3.2	Bottom	3	1	25.1	8.2	33.2	9.7	2.9	6.4
TMCLKL	HY/2012/08	2019-11-15	Mid-Ebb	IS(Mf)9	Fine	Calm		3.2	Bottom	3	2	25	8	32.2	9.7	3.1	6.1
TMCLKL	HY/2012/08	2019-11-15	Mid-Ebb	IS(Mf)11	Fine	Moderate	13:39	10.8	Surface	1	1	25.1	8	32	9.1	2.2	0.4
TMCLKL	HY/2012/08	2019-11-15	Mid-Ebb	IS(Mf)11	Fine	Moderate	13:39	10.8	Surface	1	2	25.1	8.1	33	9.1		6.7
TMCLKL	HY/2012/08	2019-11-15	Mid-Ebb	IS(Mf)11	Fine	Moderate	13:39	10.8	Middle	2	1	25	8	32.1	8.7	2.4	6
TMCLKL	HY/2012/08	2019-11-15	Mid-Ebb	IS(Mf)11	Fine	Moderate	13:39	10.8	Middle	2	2	25	8.1	33.1	8.7	2.1	6.3
TMCLKL	HY/2012/08	2019-11-15	Mid-Ebb	IS(Mf)11 IS(Mf)11	Fine	Moderate	13:39	10.8	Bottom	3	1	24.9	7.9	32.1	8.4	2.8	5.1
TMCLKL	HY/2012/08 HY/2012/08	2019-11-15 2019-11-15	Mid-Ebb Mid-Ebb	SR7	Fine	Moderate	13:39 14:37	10.8	Bottom Surface	3	1	24.9	8.1 7.9	33.1 32.1	8.5	2.5 3.5	5.4
TMCLKL		2019-11-15	Mid-Ebb	SR7	Fine	Moderate	14:37	4.5		1	12	25 25.1	8.1	33.1	8.7 8.7		5
TMCLKL	HY/2012/08	_			Fine	Moderate		4.5	Surface	2	1	25.1	0.1	33.1	0.7	3.1	5.2
TMCLKL	HY/2012/08	2019-11-15	Mid-Ebb	SR7	Fine	Moderate		4.5	Middle	2	1	+	-				
TMCLKL	HY/2012/08	2019-11-15	Mid-Ebb	SR7 SR7	Fine	Moderate		4.5	Middle	2	4	105	7.0	22.2	0.5	2.7	- F 2
TMCLKL	HY/2012/08	2019-11-15	Mid-Ebb	SR7	Fine	Moderate		4.5	Bottom	3	12	25 25	7.9 8.1	32.2 33.1	8.5	3.7	5.2
TMCLKL TMCLKL	HY/2012/08 HY/2012/08	2019-11-15	Mid-Ebb Mid-Ebb	IS17	Fine Fine	Moderate Moderate	14:37 13:30	4.5 11.3	Bottom Surface	1	1	24.9	8.1	33.1	8.5 8.8	3.8 5.5	4.9 6.2
TMCLKL	HY/2012/08	2019-11-15	Mid-Ebb	IS17	Fine	Moderate	13:30	11.3	Surface	1	2	24.9	8	32.1	8.7	5.4	6
TMCLKL	HY/2012/08	2019-11-15	Mid-Ebb	IS17	Fine	Moderate	13:30	11.3	Middle	2	1	24.9	8.1	33.1	8.7	6.4	7.8
TMCLKL	HY/2012/08	2019-11-15	Mid-Ebb	IS17	Fine	Moderate	13:30	11.3	Middle	2	2	24.9	8	32.1	8.6	5.8	8.4
TMCLKL	HY/2012/08	2019-11-15	Mid-Ebb	IS17	Fine	Moderate	13:30	11.3	Bottom	3	1	24.9	8.1	33.1	8.7	5	9.5
TMCLKL	HY/2012/08	2019-11-15	Mid-Ebb	IS17	Fine	Moderate	13:30	11.3	Bottom	3	2	24.8	8	32.1	8.6	5.7	9.0
TMCLKL	HY/2012/08	2019-11-15	Mid-Ebb Mid-Flood	CS(Mf)5	Fine	Moderate	08:47	12.5	Surface	1	1	24.0	8.1	33.2	8	3.1	5 1
TMCLKL	HY/2012/08	2019-11-15	Mid-Flood	CS(Mf)5	Fine	Moderate	08:47	12.5	Surface	1	2	24.9	7.9	32.2	8	2.8	4.8
TMCLKL	HY/2012/08	2019-11-15	Mid-Flood	CS(Mf)5	Fine	Moderate	08:47	12.5	Middle	2	1	24.9	8.1	33.2	8	5.5	5 7
TMCLKL	HY/2012/08	2019-11-15	Mid-Flood	CS(Mf)5	Fine	Moderate	08:47	12.5	Middle	2	2	24.9	7.9	32.2	7.9	5.6	5.5
TMCLKL	HY/2012/08	2019-11-15	Mid-Flood	CS(Mf)5	Fine	Moderate	08:47	12.5	Bottom	3	1	24.9	8	33.2	7.9	8.3	5.5
TMCLKL	HY/2012/08	2019-11-15	Mid-Flood	CS(Mf)5	Fine	Moderate	08:47	12.5	Bottom	3	2	24.9	7.9	32.2	7.9	8.5	5.3
TMCLKL	HY/2012/08	2019-11-15	Mid-Flood	- 	Fine	Moderate	09:32	7 1	Surface	1	1	24.6	8	31.9	8.3	3.1	6.9
TMCLKL	HY/2012/08	2019-11-15	Mid-Flood	· · · · · ·	Fine	Moderate	_	7.1	Surface	1	2	24.6	8.1	32.9	8.4	3.2	7.3
TMCLKL	HY/2012/08	2019-11-15	Mid-Flood	· · · · · ·	Fine	Moderate	09:32	7.1	Middle	2	1	24.6	7.9	31.9	8.3	3.9	7.4
TMCLKL	HY/2012/08	2019-11-15	Mid-Flood	· · · · · ·	Fine	Moderate	09:32	7.1	Middle	2	2	24.6	8.1	32.9	8.3	3.2	7.6
	HY/2012/08		Mid-Flood	CS(Mf)3(N)		Moderate		7.1	Bottom	3	11	24.6	7.9	31.9	8.2	4.2	7.8
TMCLKL	HY/2012/08	2019-11-15	Mid-Flood	CS(Mf)3(N)	Fine	Moderate		7.1	Bottom	3	2	24.6		32.9	8.3	4	7.5
	HY/2012/08	2019-11-15	Mid-Flood	IS(Mf)16	Fine	Moderate		5.5	Surface	1	11	24.8		33	8.6	4.5	5.8
INCLINE	111/2012/00	<u>-</u> 010 11-10	Inna i loud	110(1411) 10	1	Imodorato	1.0.20	10.0	Juliace	1'	<u>'</u>	1- 1.0	10.1	100	10.0	1	10.0

Project	Contract	Date	Tide	Stat	Weather	Sea Condition	Time	Water Depth	Level	Lev_Cod	Replicate	Temp(°C)	рН	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)
TMCLKL	HY/2012/08	2019-11-15	Mid-Flood	IS(Mf)16	Fine	Moderate	10:20	5.5	Surface	1	2	24.8	7.9	32.1	8.6	4.8	6.2
TMCLKL	HY/2012/08	2019-11-15	Mid-Flood	IS(Mf)16	Fine	Moderate	10:20	5.5	Middle	2	1						
TMCLKL	HY/2012/08	2019-11-15	Mid-Flood	IS(Mf)16	Fine	Moderate	10:20	5.5	Middle	2	2						
TMCLKL	HY/2012/08	2019-11-15	Mid-Flood	IS(Mf)16	Fine	Moderate	10:20	5.5	Bottom	3	1	24.8	8.1	33.1	8.5	8.6	7
TMCLKL	HY/2012/08	2019-11-15	Mid-Flood	IS(Mf)16	Fine	Moderate	10:20	5.5	Bottom	3	2	24.8	7.9	32.1	8.4	9.1	6.8
TMCLKL	HY/2012/08	2019-11-15	Mid-Flood	SR4a	Fine	Calm	10:31	4.3	Surface	1	1	25	8.1	33.1	9.1	2.6	5.1
TMCLKL	HY/2012/08	2019-11-15	Mid-Flood	SR4a	Fine	Calm	10:31	4.3	Surface	1	2	25	8	32.1	9.1	3.1	4.8
TMCLKL	HY/2012/08	2019-11-15	Mid-Flood	SR4a	Fine	Calm	10:31	4.3	Middle	2	11	+	-				+
TMCLKL TMCLKL	HY/2012/08 HY/2012/08	2019-11-15 2019-11-15	Mid-Flood Mid-Flood	SR4a SR4a	Fine Fine	Calm Calm	10:31	4.3	Middle Bottom	2	1	24.8	8.1	33.2	8.8	4	4.6
TMCLKL	HY/2012/08	2019-11-15	Mid-Flood	SR4a	Fine	Calm	10:31	4.3	Bottom	3	1	24.8	8	32.2	8.7	4.2	5.1
TMCLKL	HY/2012/08	2019-11-15	Mid-Flood	SR4(N2)	Fine	Calm	10:35	4.5	Surface	1	1	24.9	8.1	33.1	9	3.4	5.4
TMCLKL	HY/2012/08	2019-11-15	Mid-Flood	SR4(N2)	Fine	Calm	10:35	4	Surface	1	2	24.8	8	32.1	8.9	4.2	5.6
TMCLKL	HY/2012/08	2019-11-15	Mid-Flood	SR4(N2)	Fine	Calm	10:35	4	Middle	2	1	24.0	 	02.1	0.0	7.2	0.0
TMCLKL	HY/2012/08	2019-11-15	Mid-Flood	SR4(N2)	Fine	Calm	10:35	4	Middle	2	2						
TMCLKL	HY/2012/08	2019-11-15	Mid-Flood	SR4(N2)	Fine	Calm	10:35	4	Bottom	3	<u>-</u> 1	24.9	8.1	33.2	8.8	3.9	4.7
TMCLKL	HY/2012/08	2019-11-15	Mid-Flood	SR4(N2)	Fine	Calm	10:35	4	Bottom	3	2	24.8	8	32.2	8.8	4.1	4.5
TMCLKL	HY/2012/08	2019-11-15	Mid-Flood	IS8(N)	Fine	Calm	10:40	3.8	Surface	1	1	24.9	8.1	33.1	8.9	3.1	5.3
TMCLKL	HY/2012/08	2019-11-15	Mid-Flood	IS8(N)	Fine	Calm	10:40	3.8	Surface	1	2	24.9	8	32.1	8.8	3.1	5
TMCLKL	HY/2012/08	2019-11-15	Mid-Flood	IS8(N)	Fine	Calm	10:40	3.8	Middle	2	1						
TMCLKL	HY/2012/08	2019-11-15	Mid-Flood	IS8(N)	Fine	Calm	10:40	3.8	Middle	2	2		\mathbb{L}				
TMCLKL	HY/2012/08	2019-11-15	Mid-Flood	IS8(N)	Fine	Calm	10:40	3.8	Bottom	3	1	24.9	8.1	33.1	8.7	3.2	5.2
TMCLKL	HY/2012/08	2019-11-15	Mid-Flood	IS8(N)	Fine	Calm	10:40	3.8	Bottom	3	2	24.9	8	32.1	8.7	3.5	5.5
TMCLKL	HY/2012/08	2019-11-15	Mid-Flood	IS(Mf)9	Fine	Calm	10:48	3.4	Surface	1	1	24.9	8.1	33.1	8.6	4.1	6.2
TMCLKL	HY/2012/08	2019-11-15	Mid-Flood	IS(Mf)9	Fine	Calm	10:48	3.4	Surface	1	2	24.8	7.9	32.1	8.6	4.6	6.6
TMCLKL	HY/2012/08	2019-11-15	Mid-Flood	IS(Mf)9	Fine	Calm	10:48	3.4	Middle	2	1						
TMCLKL	HY/2012/08	2019-11-15	Mid-Flood	IS(Mf)9	Fine	Calm	10:48	3.4	Middle	2	2						
TMCLKL	HY/2012/08	2019-11-15	Mid-Flood	IS(Mf)9		Calm	10:48	3.4	Bottom	3	1	24.8	8.1	33.1	8.4	4.6	8.7
TMCLKL	HY/2012/08	2019-11-15	Mid-Flood	IS(Mf)9	Fine	Calm	10:48	3.4	Bottom	3	2	24.8	7.9	32.1	8.4	4.9	9.1
TMCLKL	HY/2012/08	2019-11-15	Mid-Flood	IS(Mf)11	Fine	Moderate	10:03	11.2	Surface	1	1	24.9	7.9	32	8.5	2.9	6.6
TMCLKL	HY/2012/08	2019-11-15	Mid-Flood	IS(Mf)11	Fine	Moderate	10:03	11.2	Surface	1	2	24.9	8.1	33	8.5	2.6	6.3
TMCLKL	HY/2012/08	2019-11-15	Mid-Flood	IS(Mf)11	Fine	Moderate	10:03	11.2	Middle	2	11	24.7	7.9	32.1	8.3	3.2	5.2
TMCLKL	HY/2012/08	2019-11-15	Mid-Flood	IS(Mf)11	Fine	Moderate	10:03	11.2	Middle	2	2	24.8	8.1	33	8.3	3	5.4
TMCLKL	HY/2012/08	2019-11-15	Mid-Flood	IS(Mf)11	Fine	Moderate	10:03	11.2	Bottom	3	11	24.7	7.9	32.1	8.1	6.8	5.4
TMCLKL TMCLKL	HY/2012/08 HY/2012/08	2019-11-15 2019-11-15	Mid-Flood Mid-Flood	IS(Mf)11 SR7	Fine Fine	Moderate	10:03 09:05	11.2 4.8	Bottom Surface	3	1	24.8 24.7	8.1 7.9	33.1 31.9	0.1	6.9 3.7	5.3 7.6
TMCLKL	HY/2012/08	2019-11-15	Mid-Flood	SR7	Fine	Moderate Moderate	09:05	4.8	Surface	1	12	24.7	8.1	32.9	8.1	3.7	7.9
TMCLKL	HY/2012/08	2019-11-15	Mid-Flood	SR7	Fine	Moderate	09:05	4.8	Middle	2	1	24.7	0.1	32.9	0.1	4	1.9
TMCLKL	HY/2012/08	2019-11-15	Mid-Flood	SR7	Fine	Moderate	09:05	4.8	Middle	2	2		1				
TMCLKL	HY/2012/08	2019-11-15	Mid-Flood	SR7	Fine	Moderate	09:05	4.8	Bottom	3	1	24.7	7.9	31.9	8	5.1	5.5
TMCLKL	HY/2012/08	2019-11-15	Mid-Flood	SR7	Fine	Moderate	09:05	4.8	Bottom	3	2	24.7	8.1	32.9	8.1	5	5.9
TMCLKL	HY/2012/08	2019-11-15	Mid-Flood	IS17	Fine	Moderate	10:10	10.7	Surface	1	1	24.8	8.1	33	8.5	2.6	5.3
TMCLKL	HY/2012/08	2019-11-15	Mid-Flood	IS17	Fine	Moderate	10:10	10.7	Surface	1	2	24.8	7.9	32	8.4	2.7	4.8
TMCLKL	HY/2012/08	2019-11-15	Mid-Flood	IS17	Fine	Moderate	10:10	10.7	Middle	2	1	24.8	8.1	33	8.4	2.6	5.8
TMCLKL	HY/2012/08	2019-11-15	Mid-Flood	IS17	Fine	Moderate	10:10	10.7	Middle	2	2	24.8	7.9	32.1	8.3	2.8	5.4
TMCLKL	HY/2012/08	2019-11-15	Mid-Flood	IS17	Fine	Moderate	10:10	10.7	Bottom	3	1	24.8	8.1	33.1	8.2	4.6	6.2
TMCLKL	HY/2012/08	2019-11-15	Mid-Flood	IS17	Fine	Moderate	10:10	10.7	Bottom	3	2	24.7	7.9	32.1	8.1	4.7	6.3
TMCLKL	HY/2012/08	2019-11-18	Mid-Ebb	CS(Mf)5	Fine	Calm	03:16	12.3	Surface	1	1	24.9	7.8	31.5	8.5	2.3	3.7
TMCLKL	HY/2012/08	2019-11-18	Mid-Ebb	CS(Mf)5	Fine	Calm	03:16	12.3	Surface	1	2	24.9	7.8	31.5	8.5	2.3	4.3
TMCLKL	HY/2012/08	2019-11-18	Mid-Ebb	CS(Mf)5	Fine	Calm	03:16	12.3	Middle	2	1	24.9	7.8	31.6	8.2	3.6	4.6
TMCLKL	HY/2012/08	2019-11-18	Mid-Ebb	CS(Mf)5	Fine	Calm	03:16	12.3	Middle	2	2	24.9	7.8	31.6	8.3	3.4	4.9
TMCLKL	HY/2012/08	2019-11-18	Mid-Ebb	CS(Mf)5	Fine	Calm	03:16	12.3	Bottom	3	1	24.9	7.7	32.2	7.6	3.4	5.1
TMCLKL	HY/2012/08	2019-11-18	Mid-Ebb	CS(Mf)5	Fine	Calm	03:16	12.3	Bottom	3	2	24.9	7.7	32.2	7.6	3.5	4.6
TMCLKL	HY/2012/08	2019-11-18	Mid-Ebb	CS(Mf)3(N)	Fine	Moderate	04:25	7.2	Surface	11	1	24.8	8	30.3	8.4	2.5	2.3
TMCLKL	HY/2012/08	2019-11-18	Mid-Ebb	CS(Mf)3(N)	Fine	Moderate	04:25	7.2	Surface	1	2	24.8	8	30.2	8.4	2.3	2.4
TMCLKL	HY/2012/08	2019-11-18	Mid-Ebb	_ ` ' ` '	Fine	Moderate	04:25	7.2	Middle	2	1	24.7	8	30.6	8.3	3.5	2.4
TMCLKL	HY/2012/08	2019-11-18	Mid-Ebb		Fine	Moderate	04:25	7.2	Middle	2	2	24.7	8	30.6	8.3	3.3	2.6
TMCLKL	HY/2012/08	2019-11-18	Mid-Ebb	CS(Mf)3(N)	Fine	Moderate	04:25	1.2	Bottom	3	17	24.7	8	30.6	8 8 1	3.5	2.6
	HY/2012/08		Mid-Ebb	CS(Mf)3(N)		Moderate	04:25		Bottom	3	1	24.7		30.6	0.1	3.6	2.6
	HY/2012/08	2019-11-18	Mid-Ebb	IS(Mf)16	Fine	Calm		5.5	Surface	11	12	24.6		31.4	8.6	2.6	2.2
TMCLKL	HY/2012/08	2019-11-18	Mid-Ebb	IS(Mf)16	Fine	Calm	05:10	၂၁.၁	Surface	Į I	2	24.6	8.1	31.4	8.6	2.2	2.4

TRICLAL (1972) 20 2019-11-30 MoScale (1974) 1-30 MoScale (1974) 1-	Project	Contract	Date	Tide	Stat	Weather	Sea	Time	Water	Level	Lev_Cod	Replicate	Temp(°C)	рН	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)
THE CALL INFORMATION 2019-1110 Med Read (2007) 600 6									+		201_000	· ·	1 Sp(S)	ļ e	- Санна (ррз)	- (g. = /	1 0.10.10.10	(g)
TYCKE, C. POZDEJOS 2019-11-10 MA EBB. SIÑAPSIN Proc. Calm. Ox10 b.5. Return 1 2 448 0.2 31-6 0.3 4.7 2.7 TYCKE, C. POZDEJOS 2019-11-10 MA EBB. SIÑAPSIN Proc. Calm. Ox10 b.5. Return 1 2 248 0.2 31-7 0.3 1.4 2.7 TYCKE, C. POZDEJOS 2019-11-10 MA EBB. SIÑAPSIN PROC. CALM. Ox10 b.5. Return 1 2 2 480 0.1 31-7 0.3 1.4 0.2 1.7 TYCKE, C. POZDEJOS 2019-11-10 MA EBB. SIÑAPSIN PROC. CALM. Ox10 b.5. Return 1 2 2 480 0.1 31-2 0.8 8.3 1.4 0.2 1.7 TYCKE, C. POZDEJOS 2019-11-10 MA EBB. SIÑAPSIN PROC. CALM. Ox10 b.5. Return 1 2 2 480 0.1 31-2 0.8 8.3 1.8 0.2 7 TYCKE, C. POZDEJOS 2019-11-10 MA EBB. SIÑAPSIN PROC. CALM. Ox10 b.5. Return 1 2 2 480 0.1 31-2 0.8 8.3 1.8 0.2 7 TYCKE, C. POZDEJOS 2019-11-10 MA EBB. SIÑAPSIN PROC. CALM. Ox10 b.5. Return 1 2 2 480 0.1 31-5 5.8 6.8 6.9 1.8 0.1 TYCKE, C. POZDEJOS 2019-11-10 MA EBB. SIÑAPSIN PROC. CALM. Ox10 b.5. Return 1 2 480 0.1 31-5 5.8 6.8 6.9 1.8 0.1 TYCKE, C. POZDEJOS 2019-11-10 MA EBB. SIÑAPSIN PROC. CALM. Ox10 b.5. Return 1 2 480 0.1 31-5 5.8 6.8 6.9 1.8 0.1 TYCKE, C. POZDEJOS 2019-11-10 MA EBB. SIÑAPSIN PROC. CALM. Ox10 b.5. Return 1 2 480 0.1 31-5 5.8 6.5 6.9 1.8 1.4 TYCKE, C. POZDEJOS 2019-11-10 MA EBB. SIÑAPSIN PROC. CALM. Ox10 b.5. Return 1 2 480 0.1 31-5 5.8 6.5 6.9 1.8 1.4 TYCKE, C. POZDEJOS 2019-11-10 MA EBB. SIÑAPSIN PROC. CALM. Ox10 b.5. Return 1 2 480 0.1 31-5 5.8 6.5 6.9 1.8 1.4 TYCKE, C. POZDEJOS 2019-11-10 MA EBB. SIÑAPSIN PROC. CALM. Ox10 b.5. Return 1 2 480 0.1 31-5 5.8 6.5 6.9 1.8 1.4 TYCKE, C. POZDEJOS 2019-11-10 MA EBB. SIÑAPSIN PROC. CALM. Ox10 b.5. Return 1 2 480 0.1 31-5 5.8 6.5 6.9 1.8 1.4 TYCKE, C. POZDEJOS 2019-11-10 MA EBB. SIÑAPSIN PROC. CALM. Ox10 b.5. Return 1 2 480 0.1 31-5 5.8 6.9 1.4 TYCKE, C. POZDEJOS 2019-11-10 MA EBB. SIÑAPSIN PROC. CALM. Ox10 b.5. Return 1 2 480 0.1 31-1 5.8 1.8 1.4 TYCKE, C. POZDEJOS 2019-11-10 MA EBB. SIÑAPSIN PROC. CALM. Ox10 b.5. Return 1 2 480 0.1 31-1 5.8 1.4 TYCKE, C. POZDEJOS 2019-11-10 MA EBB. SIÑAPSIN PROC. CALM. Ox10 b.5. Return 1 2 480 0.1 31-1 5.8 1.4 TYCKE, C. POZDEJOS 2019-11-10 MA EBB. SIÑAPSIN PROC. CALM. Ox10 b.					· '				+	+	2	1						
TREED, 1 (2007) 2019 2019) 11-18 Mar Elbo Signified Pene Calm 10-10 3-2 24.6 2.7 31.7 8.3 8.4 3.7 TREED, 1 (2007) 2019 2019) 11-18 Mar Elbo Signified Pene Calm 10-23 4.5 3.6 4.5 1.7 1.7 TREED, 1 (2007) 2019 2019) 11-18 Mar Elbo Signified Pene Calm 10-23 4.5 4.5 2.1 1.7 1.0 1.0 TREED, 1 (2007) 2019 2019) 11-18 Mar Elbo Signified Pene Calm 10-23 4.5 4.5 4.5 4.5 4.5 4.5 4.5 TREED, 1 (2007) 2019 2019) 11-18 Mar Elbo Signified Pene Calm 10-23 4.5 4.5 4.5 4.5 4.5 4.5 4.5 TREED, 1 (2007) 2019 2019) 11-18 Mar Elbo Signified Pene Calm 10-23 4.5 4.5 4.5 4.5 4.5 4.5 TREED, 1 (2007) 2019 2019) 11-18 Mar Elbo Signified Pene Calm 10-23 4.5 4.5 4.5 4.5 4.5 4.5 TREED, 1 (2007) 2019 2019) 11-18 Mar Elbo Signified Pene Calm 10-23 4.5 4.5 4.5 4.5 4.5 4.5 TREED, 1 (2007) 2019 2019) 11-18 Mar Elbo Signified Pene Calm 10-23 4.5 4.5 4.5 4.5 4.5 4.5 4.5 TREED, 2 (2007) 2019 2019) 11-18 Mar Elbo Signified Pene Calm 10-23 4.5 4.5 4.5 4.5 4.5 4.5 4.5 TREED, 1 (2007) 2019 2019) 11-18 Mar Elbo Signified Pene Calm 10-23 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5 TREED, 2 (2007) 2019 2019) 11-18 Mar Elbo Signified Pene Calm 10-23 4.5					_ ` /						2	2	04.0		04.0		1	
TRECLE 1/2021-209 2019-11-18 Mel-Bibs SREAT Free Culm 0.523 4.9 2019-118 Mel-Bibs SREAT Free Culm 0.523 Mel-Bibs SREAT Free Culm 0.524 Mel-Bibs SREAT Free Culm 0.524 Mel-Bibs SREAT Free Culm 0.524 Mel-Bibs Free Culm 0.524 Mel-Bibs SREAT Free Culm 0.524 Mel-Bibs Free Culm 0.524 Mel-Bibs SREAT Free Culm 0.524 Mel-Bibs SREAT Free Culm 0.524 Mel-Bibs SREAT Free					``						3	1						2.7
INCLUC, Include 1					``	-			_		3	2						3
THICKE, MY00012000										-	1 4	1			+			3
THICKER Michael Mich			_						+	+	1	2	24.8	8.1	31.2	8.8	3.8	2.7
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TRICLIC Privage 2011-116 Mod-Ebb SR4a Privage Column 06.27 4.9 Relation 2.2 24.9 8.1 31.5 8.6 4						-			+	+	2	2	04.0	0.4	04.5	0.0	0.0	
TRICKIE, 1/7/2012/08 2079-11-10 Mod-Ebb SRAM2) Fine Calm 05-30 3.2 Surface 1 24.7 8.2 31 8.1 2.1 2.5		+				-				+	3	1						3.6
THICLICAL TAYON 2019-11-18 Mid-Ebb SR(N) Pine Calm 0.5.00 3.2 Mid-Sb 2 2.7 7										+	3	2			+			4
TRICUICAL PRIVED 2008 2019-1-118 Mod-Ebb Str4UP2 Fine Calm 06-30 3.2 Modele 2 1					\ /					+	1	1					2.1	
TRICKLK PV291208 2019-11-18 Mod-Ebb Sk40/20 Fine Calm 08-30 3.2 Modele 2 2											1	2	24.7	8.2	31	8.4		2.1
TACKLK PY/201208 2019-11-18 Mol-Ebb SRA(NZ) Fine Calm 0,63.0 3.2 Bottom 3 1 24.7 8.2 31 8.1 2.3 3.3								_			2	1		+				
MCCLK, MY201208 2019-11-18 Mel-Ebb SRN Pine Calm 06537 4 Surface 1 247 8.2 31.1 8.2 2.3 3.3									_	+	2	2	04.7	0.0	24	0.4	0.0	
TRICKLK MY201208 2019-11-18 Mol-Ebb S8(N) Fine Calm 0.637 4 Surface 1 2 24.7 8.2 31.4 8.9 3.1 3.6 TRICKLK MY201208 2019-11-18 Mol-Ebb S8(N) Fine Calm 0.637 4 Molding 2 1										-	3	1						
TRICKLK MY201208 2919-11-19 Mol-Ebb S8(N) Fine Calm 05.37 4 Middle 2 1 1 1 1 1 1 1 1 1									3.2	+	3	2						
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TRICKLK MY201208 2019-11-18 Mol-Ebb S8(N) Fine Calm 05.37 4 Molde 2 2 2 5 5 5 5 6 4 3 1 1 1 1 1 1 1 1 1			_						4	+	17	4	24.7	8.2	31.4	8.9	2.9	4
TMCKLK, MY201208 2019-11-18 Mol-Ebb S8(N) Fine Calm 05.37 4 Bottom 3 1 24.7 8.3 31.5 8.8 3.6 4.5									4		2	17	1	-				
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TMCLKL H7/2012/08 2019-11-18 Mid-Ebb SkM/9 Fine Calm 05-48 3.3 Surface 1 2 2.48 3.2 31.4 8.3 3.7 2.9 TMCLKL H7/2012/08 2019-11-18 Mid-Ebb SkM/9 Fine Calm 05-48 3.3 Middle 2 1									4		3	2						
TMCUKL H7/2012/08 2019-11-18 Mid-Ebb ISM/M/9 Fine Calm O5-48 3.3 Middle 2 2 1											1	1						
TMCLIK. H7/2012/08 2019-11-18 Mid-Ebb IS(M)9 Fine Calm 05-48 3.3 Middle 2 2			_								1	2	24.8	8.2	31.4	8.3	3.7	2.9
TMCLKL HY/2012/08 2019-11-18 Mid-Ebb IS(M)9 Fine Calm 05-48 3.3 Bottom 3 2 24.8 8.2 31.4 8.1 3.7 2.5 MINCLK HY/2012/08 2019-11-18 Mid-Ebb IS(M)91 Fine Moderate 04.53 11.3 Surface 1 2 24.7 8.1 30.3 8.7 2.4 3.5 MINCLK HY/2012/08 2019-11-18 Mid-Ebb IS(M)11 Fine Moderate 04.53 11.3 Surface 1 2 24.7 8.1 30.3 8.7 2.3 3.2 MINCLK HY/2012/08 2019-11-18 Mid-Ebb IS(M)11 Fine Moderate 04.53 11.3 Surface 1 2 24.7 8.1 30.3 8.7 2.3 3.2 MINCLK HY/2012/08 2019-11-18 Mid-Ebb IS(M)11 Fine Moderate 04.53 11.3 Middle 2 1 24.8 8.1 30.6 8.7 3.3 3.7 MINCLK HY/2012/08 2019-11-18 Mid-Ebb IS(M)11 Fine Moderate 04.53 11.3 Middle 2 1 24.8 8.1 30.6 8.7 3.3 3.7 MINCLK HY/2012/08 2019-11-18 Mid-Ebb IS(M)11 Fine Moderate 04.53 11.3 Middle 2 2 24.8 8.1 30.6 8.7 3.3 3.7 MINCLK HY/2012/08 2019-11-18 Mid-Ebb IS(M)11 Fine Moderate 04.53 11.3 Middle 2 2 24.8 8.1 30.6 8.7 3.8 3.9 MINCLK HY/2012/08 2019-11-18 Mid-Ebb IS(M)11 Fine Moderate 04.53 11.3 Middle 2 2 24.8 8.1 30.6 8.7 3.8 3.9 MINCLK HY/2012/08 2019-11-18 Mid-Ebb IS(M)11 Fine Moderate 04.53 11.3 Middle 2 2 24.8 8.1 30.6 8.7 3.8 3.9 MINCLK HY/2012/08 2019-11-18 Mid-Ebb IS(M)11 Fine Moderate 04.53 11.3 Middle 2 2 24.8 8.1 30.6 8.7 3.8 3.9 MINCLK HY/2012/08 2019-11-18 Mid-Ebb IS(M)11 Fine Moderate 04.53 11.3 Middle 2 2 24.9 8.1 30.6 8.7 3.8 3.9 MINCLK HY/2012/08 2019-11-18 Mid-Ebb IS(M) Fine Calm 03.48 4.3 Surface 1 2 24.9 7.9 31 8.5 3 4 MINCLK HY/2012/08 2019-11-18 Mid-Ebb IS(M) Fine Calm 03.48 4.3 Surface 1 2 24.9 7.9 31 8.5 3 4 MINCLK HY/2012/08 2019-11-18 Mid-Ebb IS(M) Fine Calm 03.48 4.3 Surface 1 2 24.9 7.9 31 8.5 3 2.9 5.2 MINCLK HY/2012/08 2019-11-18 Mid-Ebb IS(M) Fine Calm 03.48 4.3 Surface 1 2 24.8 8.1 30.8 8.7 3.6 4.1 MINCLK HY/2012/08 2019-11-18 Mid-Ebb IS(M) Fine Calm 03.0 Minclk 2 2 2 4.8 8.1 30.9 8.7 3 3 4.3 Middle 2 2 2 4.8 8.1 30.8 8.7 3 6.2 MINCLK HY/2012/08 2019-11-18 Mid-Ebb IS(M) Fine Calm 05.00 11 Surface 1 2 24.8 8.1 30.8 8.7 3 6.4 4.1 MINCLK HY/2012/08 2019-11-18 Mid-Ebb IS(M) Fine Calm 05.00 11 Surface 1 2 24.8 8.1 30.8 8.7 3 6.4 4.1 MINCLK HY/2012/08 2019-11-18 Mid-Ebb											2	1		1				
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TMCILK HY201208 2019-11-18 Mid-Ebb IS SIMI)11 Fine Moderate 04-53 11.3 Surface 1 1 24-7 8.1 30.3 8.7 2.4 3.5 TMCILK HY201208 2019-11-18 Mid-Ebb IS SIMI)11 Fine Moderate 04-53 11.3 Middle 2 1 24-8 8.1 30.6 8.7 3.4 3.7 TMCILK HY201208 2019-11-18 Mid-Ebb IS SIMI)11 Fine Moderate 04-53 11.3 Middle 2 1 24-8 8.1 30.6 8.7 3.4 3.7 TMCILK HY201208 2019-11-18 Mid-Ebb IS SIMI)11 Fine Moderate 04-53 11.3 Middle 2 1 24-8 8.1 30.6 8.7 3.4 3.7 TMCILK HY201208 2019-11-18 Mid-Ebb IS SIMI)11 Fine Moderate 04-53 11.3 Bottom 3 1 24-8 8.1 30.6 8.7 3.6 3.9 TMCILK HY201208 2019-11-18 Mid-Ebb IS SIMI)11 Fine Moderate 04-53 11.3 Bottom 3 1 24-8 8.1 30.6 8.7 3.8 3.9 TMCILK HY201208 2019-11-18 Mid-Ebb IS SIMI)11 Fine Moderate 04-53 11.3 Bottom 3 1 24-8 8.1 30.6 8.7 3.8 3.9 TMCILK HY201208 2019-11-18 Mid-Ebb IS SIMI)11 Fine Calm 03-48 4.3 Surface 1 1 24-8 7.9 31 8.4 3 4.3 TMCILK HY201208 2019-11-18 Mid-Ebb SR7 Fine Calm 03-48 4.3 Middle 2 1 TMCILK HY201208 2019-11-18 Mid-Ebb SR7 Fine Calm 03-48 4.3 Middle 2 1 TMCILK HY201208 2019-11-18 Mid-Ebb SR7 Fine Calm 03-48 4.3 Middle 2 1 TMCILK HY201208 2019-11-18 Mid-Ebb SR7 Fine Calm 03-48 4.3 Bottom 3 1 24-8 7.9 31 8.3 2.9 5.2 TMCILK HY201208 2019-11-18 Mid-Ebb SR7 Fine Calm 03-48 4.3 Bottom 3 1 24-8 7.9 31 8.3 2.9 5.2 TMCILK HY201208 2019-11-18 Mid-Ebb SR7 Fine Calm 03-48 4.3 Bottom 3 1 24-8 7.9 31 8.3 2.9 5.2 TMCILK HY201208 2019-11-18 Mid-Ebb SR7 Fine Calm 03-48 4.3 Bottom 3 1 24-8 7.9 31 8.3 2.9 5.2 TMCILK HY201208 2019-11-18 Mid-Ebb SR7 Fine Calm 03-48 4.3 Bottom 3 1 24-8 7.9 31 8.3 2.9 4.8 TMCILK HY201208 2019-11-18 Mid-Ebb SR7 Fine Calm 05-00 11 Surface 1 24-8 8.1 30.9 8.7 3 4.4 TMCILK HY201208 2019-11-18 Mid-Ebb SR7 Fine Calm 05-00 11 Surface 1 24-8 8.1 30.9 8.7 3 4.4 TMCILK HY201208 2019-11-18 Mid-Ebb SR7 Fine Calm 05-00 11 Surface 1 24-8 8.1 30.9 8.7 3 4.4 TMCILK HY201208 2019-11-18 Mid-Ebb SR7 Fine Calm 05-00 11 Surface 1 24-8 8.1 31.3 Surface											3	1				8		
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TMCLKL HY/2012/08 2019-11-18 Mid-Ebb SR7 Fine Calm 03-48 4.3 Surface 1 2 24.9 7.9 31 8.5 3 4 TMCLKL HY/2012/08 2019-11-18 Mid-Ebb SR7 Fine Calm 03-48 4.3 Middle 2 1 TMCLKL HY/2012/08 2019-11-18 Mid-Ebb SR7 Fine Calm 03-48 4.3 Middle 2 2 2 TMCLKL HY/2012/08 2019-11-18 Mid-Ebb SR7 Fine Calm 03-48 4.3 Middle 2 2 2 TMCLKL HY/2012/08 2019-11-18 Mid-Ebb SR7 Fine Calm 03-48 4.3 Bottom 3 1 24.8 7.9 31 8.3 2.9 5.2 TMCLKL HY/2012/08 2019-11-18 Mid-Ebb SR7 Fine Calm 05-00 11 Surface 1 1 24.8 8.1 30.9 8.7 3 3 4 TMCLKL HY/2012/08 2019-11-18 Mid-Ebb IS17 Fine Calm 05-00 11 Surface 1 1 24.8 8.1 30.9 8.7 3 3 3.7 TMCLKL HY/2012/08 2019-11-18 Mid-Ebb IS17 Fine Calm 05-00 11 Surface 1 2 24.8 8.1 30.9 8.7 3 3 3.7 TMCLKL HY/2012/08 2019-11-18 Mid-Ebb IS17 Fine Calm 05-00 11 Middle 2 1 24.8 8.1 30.9 8.7 3 3 3.7 TMCLKL HY/2012/08 2019-11-18 Mid-Ebb IS17 Fine Calm 05-00 11 Middle 2 1 24.8 8.1 31.3 8.7 3.6 4.1 TMCLKL HY/2012/08 2019-11-18 Mid-Ebb IS17 Fine Calm 05-00 11 Middle 2 1 24.8 8.1 31.3 8.7 3.3 4 TMCLKL HY/2012/08 2019-11-18 Mid-Ebb IS17 Fine Calm 05-00 11 Middle 2 1 24.8 8.1 31.2 8.7 3.3 4 TMCLKL HY/2012/08 2019-11-18 Mid-Ebb IS17 Fine Calm 05-00 11 Middle 2 1 24.8 8.1 31.2 8.7 3.3 4 TMCLKL HY/2012/08 2019-11-18 Mid-Ebb IS17 Fine Calm 05-00 11 Middle 2 2 2 4.8 8.1 31.2 8.7 3.3 4 TMCLKL HY/2012/08 2019-11-18 Mid-Ebb IS17 Fine Calm 05-00 11 Bottom 3 1 24.8 8.1 31.7 8.6 4.7 5.2 TMCLKL HY/2012/08 2019-11-18 Mid-Ebb IS17 Fine Calm 05-00 11 Bottom 3 1 24.8 8.1 31.7 8.6 4.7 5.2 TMCLKL HY/2012/08 2019-11-18 Mid-Flood CS(Mi)5 Sunny Moderate 12.22 11.3 Surface 1 25 8 8 31.1 6.6 2.6 2.9 TMCLKL HY/2012/08 2019-11-18 Mid-Flood CS(Mi)5 Sunny Moderate 12.22 11.3 Middle 2 2 24.9 8 31.4 7.9 5.3 3.9 TMCLKL HY/2012/08 2019-11-18 Mid-Flood CS(Mi)5 Sunny Moderate 12.22 11.3 Middle 2 2 24.9 8 31.4 7.9 5.3 3.9 TMCLKL HY/2012/08 2019-11-18 Mid-Flood CS(Mi)5 Sunny Moderate 11.28 7 Surface 1 24.9 7.8 81.4 7.9 5.3 3.8 TMCLKL HY/2012/08 2019-11-18 Mid-Flood CS(Mi)5 Sunny Moderate 11.28 7 Surface 1 24.9 8.2 8.5 8.1 7.7 1.4 8.5 TMCLKL											3	2			+		4	_
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TMCLKL HY/2012/08 2019-11-18 Mid-Ebb SR7 Fine Calm 03:48 4.3 Middle 2 2 5 8 1											1	2	24.9	7.9	31	8.5	3	4
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TMCLKL HY/2012/08 2019-11-18 Mid-Flood CS(Mf)5 Sunny Moderate 12:22 11.3 Bottom 3 2 24.9 8 31.4 7.7 5.9 4.5 TMCLKL HY/2012/08 2019-11-18 Mid-Flood CS(Mf)3(N) Sunny Moderate 11:28 7 Surface 1 1 24.9 7.8 28.1 8.3 5.2 3.8 TMCLKL HY/2012/08 2019-11-18 Mid-Flood CS(Mf)3(N) Sunny Moderate 11:28 7 Surface 1 2 24.9 8 27.9 8.4 4.3 3.8 TMCLKL HY/2012/08 2019-11-18 Mid-Flood CS(Mf)3(N) Sunny Moderate 11:28 7 Middle 2 2 24.8 8 28.5 8.2 6.5 4.1 TMCLKL HY/2012/08 2019-11-18 Mid-Flood CS(Mf)3(N) Sunny Moderate 11:28 7 Bottom 3 1 <td< td=""><td>TMCLKL</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>+</td><td></td><td>2</td><td>2</td><td></td><td></td><td></td><td></td><td>5</td><td>3.6</td></td<>	TMCLKL								+		2	2					5	3.6
TMCLKL HY/2012/08 2019-11-18 Mid-Flood CS(Mf)3(N) Sunny Moderate 11:28 7 Surface 1 1 24.9 7.8 28.1 8.3 5.2 3.8 TMCLKL HY/2012/08 2019-11-18 Mid-Flood CS(Mf)3(N) Sunny Moderate 11:28 7 Surface 1 2 24.9 8 27.9 8.4 4.3 3.8 TMCLKL HY/2012/08 2019-11-18 Mid-Flood CS(Mf)3(N) Sunny Moderate 11:28 7 Middle 2 1 24.8 7.8 28.5 8.2 6.5 4.1 TMCLKL HY/2012/08 2019-11-18 Mid-Flood CS(Mf)3(N) Sunny Moderate 11:28 7 Bottom 3 1 24.9 7.8 28.5 8.2 7.1 4.3 TMCLKL HY/2012/08 2019-11-18 Mid-Flood CS(Mf)3(N) Sunny Moderate 11:28 7 Bottom 3 1	TMCLKL										3	1						5
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TMCLKL HY/2012/08 2019-11-18 Mid-Flood CS(Mf)3(N) Sunny Moderate 11:28 7 Bottom 3 2 24.8 8 28.5 8.1 7.7 4.8 TMCLKL HY/2012/08 2019-11-18 Mid-Flood IS(Mf)16 Sunny Calm 10:49 5.2 Surface 1 1 24.9 7.9 31 8.8 5 3.3 TMCLKL HY/2012/08 2019-11-18 Mid-Flood IS(Mf)16 Sunny Calm 10:49 5.2 Surface 1 2 24.9 8.1 31 8.8 5 3.2	TMCLKL	HY/2012/08	2019-11-18	Mid-Flood	CS(Mf)3(N)	Sunny	Moderate		7	Middle	2	2	24.8			8.2		4.3
TMCLKL HY/2012/08 2019-11-18 Mid-Flood IS(Mf)16 Sunny Calm 10:49 5.2 Surface 1 1 24.9 7.9 31 8.8 5 3.3 TMCLKL HY/2012/08 2019-11-18 Mid-Flood IS(Mf)16 Sunny Calm 10:49 5.2 Surface 1 2 24.9 8.1 31 8.8 5 3.2	TMCLKL	HY/2012/08		Mid-Flood		Sunny	Moderate		7	Bottom	3	1				8.1	7.6	_
TMCLKL HY/2012/08 2019-11-18 Mid-Flood IS(Mf)16 Sunny Calm 10:49 5.2 Surface 1 2 24.9 8.1 31 8.8 5 3.2	TMCLKL	HY/2012/08	2019-11-18	Mid-Flood	CS(Mf)3(N)	Sunny	Moderate	11:28	7	Bottom	3	2	24.8		28.5	8.1	7.7	
	TMCLKL	HY/2012/08	2019-11-18	Mid-Flood							1	1			31		5	
	TMCLKL	HY/2012/08	2019-11-18	Mid-Flood		Sunny	Calm	10:49	5.2	Surface	1	2	24.9	8.1	31	8.8	5	3.2
					<u> </u>	Sunny				+	2	1		1				

Project	Contract	Date	Tide	Stat	Weather	Sea	Time	Water	Level	Lev_Cod	Replicate	Temp(°C)	рН	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)
Fioject	Contract	Date	Tide	Stat	Weather	Condition	Tille	Depth	LEVEI	Lev_Cou	Replicate	Tellip(C)	рп	Samily(ppt)	DO(IIIg/L)	Turbialty(NTO)	33(IIIg/L)
TMCLKL	HY/2012/08	2019-11-18	Mid-Flood	IS(Mf)16	Sunny	Calm	10:49	5.2	Middle	2	2						
TMCLKL	HY/2012/08	2019-11-18	Mid-Flood	IS(Mf)16	Sunny	Calm	10:49	5.2	Bottom	3	1	24.9	7.8	31	8.4	7.2	5.3
TMCLKL	HY/2012/08	2019-11-18	Mid-Flood	IS(Mf)16	Sunny	Calm	10:49	5.2	Bottom	3	2	24.9	8	31	8.5	7.4	5
TMCLKL	HY/2012/08	2019-11-18	Mid-Flood	SR4a	Sunny	Calm	10:38	4	Surface	1	1	24.9	8	31.1	8.9	4	2.3
TMCLKL	HY/2012/08	2019-11-18	Mid-Flood	SR4a	Sunny	Calm	10:38	4	Surface	1	2	24.9	8.1	31.1	8.9	3.9	2.5
TMCLKL	HY/2012/08	2019-11-18	Mid-Flood	SR4a	Sunny	Calm	10:38	4	Middle	2	1						
TMCLKL	HY/2012/08	2019-11-18	Mid-Flood	SR4a	Sunny	Calm	10:38	4	Middle	2	2						
TMCLKL	HY/2012/08	2019-11-18	Mid-Flood	SR4a	Sunny	Calm	10:38	4	Bottom	3	1	24.9	7.8	31.5	8.2	6.4	2.9
TMCLKL	HY/2012/08	2019-11-18	Mid-Flood	SR4a	Sunny	Calm	10:38	4	Bottom	3	2	24.9	8	31.5	8.2	6.2	2.6
TMCLKL	HY/2012/08	2019-11-18	Mid-Flood	SR4(N2)	Sunny	Calm	10:35	3	Surface	1	1	24.9	7.8	31.2	9.2	3.6	2.3
TMCLKL	HY/2012/08	2019-11-18	Mid-Flood	SR4(N2)	Sunny	Calm	10:35	3	Surface	1	2	24.9	8	31.2	9.2	3.5	2.4
TMCLKL	HY/2012/08	2019-11-18	Mid-Flood	SR4(N2)	Sunny	Calm	10:35	3	Middle	2	1						
TMCLKL	HY/2012/08	2019-11-18	Mid-Flood	SR4(N2)	Sunny	Calm	10:35	3	Middle	2	2		 	0.4.0			
TMCLKL	HY/2012/08	2019-11-18	Mid-Flood	SR4(N2)	Sunny	Calm	10:35	3	Bottom	3	1	24.9	7.8	31.2	8.7	3.6	3.1
TMCLKL	HY/2012/08	2019-11-18	Mid-Flood	SR4(N2)	Sunny	Calm	10:35	3	Bottom	3	2	24.9	8	31.2	8.8	3.5	3.4
TMCLKL	HY/2012/08	2019-11-18	Mid-Flood	IS8(N)	Fine	Calm		4.1	Surface	1	11	24.9	8	31.2	8.9	8.9	5.4
TMCLKL	HY/2012/08	2019-11-18	Mid-Flood	IS8(N)	Fine	Calm		4.1	Surface	1	2	24.9	8.2	31.2	8.9	8.4	5.4
TMCLKL	HY/2012/08	2019-11-18	Mid-Flood	IS8(N)	Fine	Calm		4.1	Middle	2	17		+		1		
TMCLKL	HY/2012/08	2019-11-18	Mid-Flood		Fine	Calm		4.1	Middle	2	2	04.0	7.0	04.0	0.7	10.0	0.0
TMCLKL	HY/2012/08	2019-11-18	Mid-Flood	IS8(N)	Fine	Calm		4.1	Bottom	3	1	24.9	7.8	31.3	8.7	10.8	6.2
TMCLKL	HY/2012/08	2019-11-18	Mid-Flood	IS8(N)	Fine	Calm		4.1	Bottom	3	2	24.9	8.1	31.3	8.8	11.1	6
TMCLKL	HY/2012/08	2019-11-18	Mid-Flood	IS(Mf)9	Fine	Calm	10:23	3	Surface	1	17	24.9	7.8	31.4	9.2	5.4	5.9
TMCLKL	HY/2012/08	2019-11-18	Mid-Flood	IS(Mf)9	Fine	Calm	10:23	3	Surface	1	2	24.9	8	31.4	9.2	5.8	5.7
TMCLKL	HY/2012/08	2019-11-18	Mid-Flood	IS(Mf)9	Fine	Calm	10:23	3	Middle	2	1		+				
TMCLKL	HY/2012/08	2019-11-18	Mid-Flood	IS(Mf)9	Fine	Calm	10:23	3	Middle	2	2	04.0	7.0	04.4	0.0	 F 7	15.0
TMCLKL	HY/2012/08	2019-11-18	Mid-Flood	IS(Mf)9	Fine	Calm	10:23	3	Bottom	3	1	24.9	7.8	31.4	8.9	5.7	5.9
TMCLKL	HY/2012/08	2019-11-18	Mid-Flood	IS(Mf)9	Fine	Calm	10:23	3	Bottom	3	2	24.9	8	31.4	8.9	5.5	6.3
TMCLKL	HY/2012/08	2019-11-18	Mid-Flood	IS(Mf)11	Sunny	Moderate	11:02	11	Surface	1	1	24.8	7.9	29.6	8.7	2.4	3.8
TMCLKL	HY/2012/08	2019-11-18	Mid-Flood	IS(Mf)11	Sunny	Moderate	11:02	11	Surface	1	2	24.8	8	29.5	8.8	2.1	4
TMCLKL	HY/2012/08	2019-11-18	Mid-Flood	IS(Mf)11	Sunny	Moderate	11:02	11	Middle	2	10	24.8	7.8	30.1	8.6	3.5	3.4
TMCLKL	HY/2012/08	2019-11-18	Mid-Flood	IS(Mf)11	Sunny	Moderate	11:02	11	Middle	2	1	24.8	8 7.8	30	8.7	3.1	3
TMCLKL	HY/2012/08	2019-11-18	Mid-Flood	IS(Mf)11	Sunny	Moderate	11:02 11:02	11	Bottom	3	12	24.8 24.8	8	30.4	8.4	4.3	2.3
TMCLKL	HY/2012/08	2019-11-18	Mid-Flood	IS(Mf)11 SR7	Sunny	Moderate		11	Bottom	3	1	24.8	7.8	30.5	8.4	3.7	2.3
TMCLKL TMCLKL	HY/2012/08 HY/2012/08	2019-11-18 2019-11-18	Mid-Flood Mid-Flood	SR7	Sunny Sunny	Calm Calm		4.1	Surface Surface	1	12	24.9	8	30.3	8.8 8.8	3.7	3.5
TMCLKL	HY/2012/08	2019-11-18	Mid-Flood	SR7	Sunny	Calm		4.1	Middle	2	1	24.9		30.3	0.0	3.1	3.1
TMCLKL	HY/2012/08	2019-11-18	Mid-Flood	SR7	Sunny	Calm		4.1	Middle	2	2		+				
TMCLKL	HY/2012/08	2019-11-18	Mid-Flood	SR7	Sunny	Calm	11:58	4.1	Bottom	2	1	25	7.8	30.3	8.4	3.6	4.3
TMCLKL	HY/2012/08	2019-11-18	Mid-Flood	SR7	Sunny	Calm		4.1	Bottom	2	2	24.9	8	30.3	8.4	3.9	4.5
TMCLKL	HY/2012/08	2019-11-18	Mid-Flood	IS17	Sunny	Moderate		9.2	Surface	1	1	24.8	7.9	30.4	8.8	3.8	5 1
TMCLKL	HY/2012/08	2019-11-18	Mid-Flood	IS17	Sunny	Moderate		9.2	Surface	1	2	24.8	8.1	30.3	8.9	2.8	4.7
TMCLKL	HY/2012/08	2019-11-18	Mid-Flood	IS17	Sunny	Moderate		9.2	Middle	2	1	24.7	7.9	30.5	8.4	3.6	4.4
TMCLKL	HY/2012/08	2019-11-18	Mid-Flood	IS17	Sunny	Moderate		9.2	Middle	2	12	24.7	8.1	30.5	8.4	3.9	4
TMCLKL	HY/2012/08	2019-11-18	Mid-Flood	IS17	Sunny	Moderate		9.2	Bottom	3	1	24.8	7.9	30.8	8.3	8.3	4.6
TMCLKL	HY/2012/08	2019-11-18	Mid-Flood	IS17	Sunny	Moderate		9.2	Bottom	3	2	24.8	8.1	30.9	8.3	8.6	4
TMCLKL	HY/2012/08	2019-11-10	Mid-Flood	CS(Mf)5	Cloudy	Moderate	04:57	12.6	Surface	1	1	24	8	32.8	7.6	1.3	5.1
TMCLKL	HY/2012/08	2019-11-20	Mid-Ebb	CS(Mf)5	Cloudy	Moderate	04:57	12.6	Surface	11	2	23.9	8.1	31.8	7.6	1.3	5.7
TMCLKL	HY/2012/08	2019-11-20	Mid-Ebb	CS(Mf)5	Cloudy	Moderate	04:57	12.6	Middle	2	11	24.6	7.9	33.5	7.1	1.6	5.8
TMCLKL	HY/2012/08	2019-11-20	Mid-Ebb	CS(Mf)5	Cloudy	Moderate	04:57	12.6	Middle	2	2	24.6	7.9	32.4	7.2	1.4	5.5
TMCLKL	HY/2012/08	2019-11-20	Mid-Ebb	CS(Mf)5	Cloudy	Moderate	04:57	12.6	Bottom	3	1 1	24.7	8	33.9	6.8	2.5	3.8
TMCLKL	HY/2012/08	2019-11-20	Mid-Ebb	CS(Mf)5	Cloudy	Moderate	04:57	12.6	Bottom	3	2	24.7	7.9	32.8	6.9	2.2	3.2
TMCLKL	HY/2012/08	2019-11-20	Mid-Ebb	CS(Mf)3(N)	Cloudy	Moderate	06:00	7.4	Surface	11	1 -	23.9	8.1	31.7	7.7	2.4	4.9
TMCLKL	HY/2012/08	2019-11-20	Mid-Ebb		Cloudy	Moderate	06:00	7.4	Surface	11	2	23.9	8.1	30.8	7.8	2.4	5.2
TMCLKL	HY/2012/08	2019-11-20	Mid-Ebb	\ / \ /	Cloudy	Moderate	06:00	7.4	Middle	2	1 -	23.9	8.1	31.9	7.6	3.1	5.3
TMCLKL	HY/2012/08	2019-11-20	Mid-Ebb		Cloudy	Moderate		7.4	Middle	2	2	23.9	8.1	31	7.6	2.9	6.1
TMCLKL	HY/2012/08	2019-11-20	Mid-Ebb		Cloudy	Moderate	+	7.4	Bottom	3	1 -	24.1	8.1	32.8	7.3	4.3	5.5
TMCLKL	HY/2012/08	2019-11-20	Mid-Ebb		Cloudy	Moderate		7.4	Bottom	3	2	24.1	8.2	32	7.3	4.3	6.7
TMCLKL	HY/2012/08	2019-11-20	Mid-Ebb	IS(Mf)16	Cloudy	Moderate		5.7	Surface	11	1 -	24	8.2	31.9	7.7	4.4	8.1
	HY/2012/08	2019-11-20	Mid-Ebb	 	Cloudy	Moderate		5.7	Surface	11	2	24.2	8.1	31.4	7.8	4.1	8.4
TMCLKL	HY/2012/08	2019-11-20	Mid-Ebb		Cloudy	Moderate	001.0	5.7	Middle	2	<u> -</u>	· · _	1	1	1	1	1
	HY/2012/08	2019-11-20	Mid-Ebb		Cloudy	Moderate			Middle	2	2		1				
	1,2012,00	1-0.0 1120	1	1.5()	13.5447	1	100.10	10.,	1	<u>ı-</u>	<u>ı-</u>	ı		1	I		

Project	Contract	Date	Tide	Stat	Weather	Sea	Time	Water	Level	Lev_Cod	Replicate	Temp(°C)	рН	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)
	HY/2012/08	2010 11 20	Mid Ebb	IS(Mf)16	Cloudy	Condition	06:46	Depth		2	1		0 1				
	HY/2012/08	2019-11-20 2019-11-20	Mid-Ebb Mid-Ebb	IS(Mf)16	Cloudy Cloudy	Moderate Moderate		5.7 5.7	Bottom Bottom	<u>၁</u>	12	24.6 24.6	8.1 8.1	33.3 32.1	6.9	4.5 4.5	7.5 6.9
	HY/2012/08	2019-11-20	Mid-Ebb	SR4a	Cloudy	Calm	+	4.3	Surface	1	1	24.0	8.1	32	7 7	2.3	6.5
	HY/2012/08	2019-11-20	Mid-Ebb	SR4a	Cloudy	Calm		4.3	Surface	1	2	24	8.1	31	7.8	2.4	6.2
TMCLKL	HY/2012/08	2019-11-20	Mid-Ebb	SR4a	Cloudy	Calm		4.3	Middle	2	1	24	0.1		7.0	2.4	0.2
	HY/2012/08	2019-11-20	Mid-Ebb	SR4a	Cloudy	Calm	+	4.3	Middle	2	2		+				+
	HY/2012/08	2019-11-20	Mid-Ebb	SR4a	Cloudy	Calm	+	4.3	Bottom	3	1	24	8.1	32	7.5	2.4	5.7
	HY/2012/08	2019-11-20	Mid-Ebb	SR4a	Cloudy	Calm		4.3	Bottom	3	2	24.1	8.1	31	7.5	2.3	6.2
	HY/2012/08	2019-11-20	Mid-Ebb	SR4(N2)	Cloudy	Calm		3.8	Surface	1	1	24.1	8.1	32	7.4	3.4	6.8
TMCLKL	HY/2012/08	2019-11-20	Mid-Ebb	SR4(N2)	Cloudy	Calm		3.8	Surface	1	2	24.1	8.1	31	7.5	3.3	7.5
	HY/2012/08	2019-11-20	Mid-Ebb	SR4(N2)	Cloudy	Calm		3.8	Middle	2	1	12	0.1		7.0	0.0	1.0
	HY/2012/08	2019-11-20	Mid-Ebb	SR4(N2)	Cloudy	Calm		3.8	Middle	2	2						+
	HY/2012/08	2019-11-20	Mid-Ebb	SR4(N2)	Cloudy	Calm		3.8	Bottom	3	1	24.2	8.1	32.1	7.3	4.2	7.2
	HY/2012/08	2019-11-20	Mid-Ebb	SR4(N2)	Cloudy	Calm		3.8	Bottom	3	2	24.2	8.1	31.1	7.5	4.4	7.5
	HY/2012/08	2019-11-20	Mid-Ebb	IS8(N)	Cloudy	Calm		3.9	Surface	1	1	24	8.2	31.9	8	4.5	8
	HY/2012/08	2019-11-20	Mid-Ebb	IS8(N)	Cloudy	Calm		3.9	Surface	1	2	24.1	8.2	31	8	4.6	8.4
	HY/2012/08	2019-11-20	Mid-Ebb	IS8(N)	Cloudy	Calm		3.9	Middle	2	1		10.2		1	1	10
	HY/2012/08	2019-11-20	Mid-Ebb	IS8(N)	Cloudy	Calm		3.9	Middle	2	2		+				+
	HY/2012/08	2019-11-20	Mid-Ebb	IS8(N)	Cloudy	Calm		3.9	Bottom	3	1	24.1	8.2	31.9	7.8	5	6.3
TMCLKL	HY/2012/08	2019-11-20	Mid-Ebb	IS8(N)	Cloudy	Calm		3.9	Bottom	3	2	24.1	8.2	31	7.8	5.3	6.8
TMCLKL	HY/2012/08	2019-11-20	Mid-Ebb	IS(Mf)9	Cloudy	Calm	07:18	3.4	Surface	1	1	23.8	8.2	31.9	7.9	3.8	6.3
	HY/2012/08	2019-11-20	Mid-Ebb	IS(Mf)9	Cloudy	Calm		3.4	Surface	1	2	23.7	8.2	30.9	8	3.7	5.9
	HY/2012/08	2019-11-20	Mid-Ebb	IS(Mf)9	Cloudy	Calm		3.4	Middle	2	<u>-</u> 1	1	10.2		1		10.0
	HY/2012/08	2019-11-20	Mid-Ebb	IS(Mf)9	Cloudy	Calm		3.4	Middle	2	2						
	HY/2012/08	2019-11-20	Mid-Ebb	IS(Mf)9	Cloudy	Calm		3.4	Bottom	3	1	23.8	8.2	31.9	7.9	4.8	5.5
TMCLKL	HY/2012/08	2019-11-20	Mid-Ebb	IS(Mf)9	Cloudy	Calm	07:18	3.4	Bottom	3	2	23.7	8.2	30.9	7.9	4.7	5.4
TMCLKL	HY/2012/08	2019-11-20	Mid-Ebb	IS(Mf)11	Cloudy	Moderate	06:27	10.9	Surface	1	1	23.9	8.2	31.9	7.8	1.7	4.9
	HY/2012/08	2019-11-20	Mid-Ebb	IS(Mf)11	Cloudy	Moderate			Surface	1	2	23.8	8.1	30.9	7.9	1.6	4.7
	HY/2012/08	2019-11-20	Mid-Ebb	IS(Mf)11	Cloudy	Moderate	06:27	10.9	Middle	2	1	24.2	8.1	32.2	7.6	1.8	5.1
	HY/2012/08	2019-11-20	Mid-Ebb	IS(Mf)11	Cloudy	Moderate	+	10.9	Middle	2	2	24.2	8.1	31.3	7.6	1.7	5.5
	HY/2012/08	2019-11-20	Mid-Ebb	IS(Mf)11	Cloudy	Moderate	06:27	10.9	Bottom	3	1	24.7	8	33.2	7	2.8	6.6
	HY/2012/08	2019-11-20	Mid-Ebb	IS(Mf)11	Cloudy	Moderate	06:27	10.9	Bottom	3	2	24.6	8.1	32.2	7.1	2.8	6.1
	HY/2012/08	2019-11-20	Mid-Ebb	SR7	Cloudy	Moderate		4.8	Surface	1	1	24.1	8.1	32.6	7.4	1.8	4.3
	HY/2012/08	2019-11-20	Mid-Ebb	SR7	Cloudy	Moderate		4.8	Surface	1	2	24.1	8.1	31.6	7.5	1.8	4.6
TMCLKL	HY/2012/08	2019-11-20	Mid-Ebb	SR7	Cloudy	Moderate	05:24	4.8	Middle	2	1						
TMCLKL	HY/2012/08	2019-11-20	Mid-Ebb	SR7	Cloudy	Moderate	05:24	4.8	Middle	2	2						
TMCLKL	HY/2012/08	2019-11-20	Mid-Ebb	SR7	Cloudy	Moderate	05:24	4.8	Bottom	3	1	24.6	8	33.2	7	2.2	5.1
TMCLKL	HY/2012/08	2019-11-20	Mid-Ebb	SR7	Cloudy	Moderate		4.8	Bottom	3	2	24.6	8.1	32.2	7.1	2.2	4.5
TMCLKL	HY/2012/08	2019-11-20	Mid-Ebb	IS17	Cloudy	Moderate		8.8	Surface	1	1	24.1	8.1	32.1	7.6	2.7	3.8
TMCLKL	HY/2012/08	2019-11-20	Mid-Ebb	IS17	Cloudy	Moderate	06:37	8.8	Surface	1	2	24.3	8.1	31.4	7.6	2.7	3.3
TMCLKL	HY/2012/08	2019-11-20	Mid-Ebb	IS17	Cloudy	Moderate	06:37	8.8	Middle	2	1	24.3	8.1	32.4	7.4	2.6	4.7
TMCLKL	HY/2012/08	2019-11-20	Mid-Ebb	IS17	Cloudy	Moderate	06:37	8.8	Middle	2	2	24.3	8.1	31.5	7.4	2.4	4.7
	HY/2012/08	2019-11-20	Mid-Ebb	IS17	Cloudy	Moderate	06:37	8.8	Bottom	3	1	24.4	8.1	32.8	7.2	2.4	5.2
TMCLKL	HY/2012/08	2019-11-20	Mid-Ebb	IS17	Cloudy	Moderate	06:37	8.8	Bottom	3	2	24.4	8.1	31.8	7.3	2.5	5.6
TMCLKL	HY/2012/08	2019-11-20	Mid-Flood	CS(Mf)5	Cloudy	Moderate	15:07	12.9	Surface	1	1	24.4	8.1	32.5	8	1.5	6.9
TMCLKL	HY/2012/08	2019-11-20	Mid-Flood	CS(Mf)5	Cloudy	Moderate	15:07	12.9	Surface	1	2	24.4	8.1	31.6	8	1.5	6.6
	HY/2012/08	2019-11-20	Mid-Flood	CS(Mf)5	Cloudy	Moderate	15:07	12.9	Middle	2	1	24.6	8	33.5	6.9	6	6
	HY/2012/08	2019-11-20	Mid-Flood	CS(Mf)5	Cloudy	Moderate	15:07	12.9	Middle	2	2	24.5	8	32.5	6.9	6	5.2
TMCLKL	HY/2012/08	2019-11-20	Mid-Flood	CS(Mf)5	Cloudy	Moderate	15:07	12.9	Bottom	3	1	24.6	8	33.5	7	8.1	5
	HY/2012/08	2019-11-20	Mid-Flood	CS(Mf)5	Cloudy	Moderate	15:07	12.9	Bottom	3	2	24.5	8	32.5	7	8	4.6
TMCLKL	HY/2012/08	2019-11-20	Mid-Flood	CS(Mf)3(N)	Cloudy	Moderate	14:08	7.5	Surface	1	1	24	8.1	31.9	8.1	3.3	6.3
TMCLKL	HY/2012/08	2019-11-20	Mid-Flood	CS(Mf)3(N)	Cloudy	Moderate	14:08	7.5	Surface	1	2	24	8.1	31	8.1	3.3	6.4
TMCLKL	HY/2012/08	2019-11-20	Mid-Flood	CS(Mf)3(N)	Cloudy	Moderate	14:08	7.5	Middle	2	1	24	8.1	31.9	8	3.5	6.9
TMCLKL	HY/2012/08	2019-11-20	Mid-Flood	CS(Mf)3(N)	Cloudy	Moderate	14:08	7.5	Middle	2	2	24	8.1	31	8.1	3.4	6.8
	HY/2012/08	2019-11-20	Mid-Flood	CS(Mf)3(N)	Cloudy	Moderate		7.5	Bottom	3	1	24	8.1	32	7.9	4.7	7.7
	HY/2012/08	2019-11-20	Mid-Flood	CS(Mf)3(N)	Cloudy	Moderate	14:08	7.5	Bottom	3	2	24	8.1	31	8	4.6	7
	HY/2012/08	2019-11-20	Mid-Flood	IS(Mf)16	Cloudy	Moderate		5.8	Surface	1	1	24.6	8.1	32.2	8.2	5.6	7.5
	HY/2012/08	2019-11-20	Mid-Flood	IS(Mf)16	Cloudy	Moderate		5.8	Surface	1	2	24.6	8.1	31.3	8.3	5.5	7.8
	HY/2012/08		Mid-Flood	IS(Mf)16	Cloudy	Moderate	13:28		Middle		1						
	HY/2012/08		Mid-Flood	IS(Mf)16	Cloudy	Moderate		5.8	111114414	2	2						
ITMCLKL	HY/2012/08	2019-11-20	Mid-Flood	IS(Mf)16	Cloudy	Moderate	13:28	5.8	Bottom	3	1	24.3	8.1	32.4	7.8	5.6	8.1

Project	Contract	Date	Tide	Stat	Weather	Sea Condition	Time	Water Depth	Level	Lev_Cod	Replicate	Temp(°C)	рН	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)
TMCLKL	HY/2012/08	2019-11-20	Mid-Flood	IS(Mf)16	Cloudy	Moderate	13:28	5.8	Bottom	3	2	24.3	8.1	31.4	7.8	5.5	8.5
TMCLKL	HY/2012/08	2019-11-20	Mid-Flood	SR4a	Cloudy	Calm	13:17	4.2	Surface	1	1	24.4	8.1	31.9	7.7	5.9	6
TMCLKL	HY/2012/08	2019-11-20	Mid-Flood	SR4a	Cloudy	Calm	13:17	4.2	Surface	1	2	24.4	8.1	31	7.7	5.9	5.8
TMCLKL	HY/2012/08	2019-11-20	Mid-Flood	SR4a	Cloudy	Calm	13:17	4.2	Middle	2	1		1		1	10.0	
TMCLKL	HY/2012/08	2019-11-20	Mid-Flood	SR4a	Cloudy	Calm	13:17	4.2	Middle	2	2						
TMCLKL	HY/2012/08	2019-11-20	Mid-Flood	SR4a	Cloudy	Calm	13:17	4.2	Bottom	3	1	24.4	8.1	32.4	7.2	6.1	6.9
TMCLKL	HY/2012/08	2019-11-20	Mid-Flood	SR4a	Cloudy	Calm	13:17	4.2	Bottom	3	2	24.4	8	31.4	7.2	6.1	6.4
TMCLKL	HY/2012/08	2019-11-20	Mid-Flood	SR4(N2)	Cloudy	Calm	13:12	4.1	Surface	1	1	24.4	8.2	31.9	8.4	3	8.4
TMCLKL	HY/2012/08	2019-11-20	Mid-Flood	SR4(N2)	Cloudy	Calm	13:12	4.1	Surface	1	2	24.3	8.2	30.9	8.5	2.9	8.1
TMCLKL	HY/2012/08	2019-11-20	Mid-Flood	SR4(N2)	Cloudy	Calm	13:12	4.1	Middle	2	1	1	1		1		
TMCLKL	HY/2012/08	2019-11-20	Mid-Flood	SR4(N2)	Cloudy	Calm	13:12	4.1	Middle	2	2		1				
TMCLKL	HY/2012/08	2019-11-20	Mid-Flood	SR4(N2)	Cloudy	Calm	13:12	4.1	Bottom	3	1	24.2	8.1	32.1	8	7.6	7.2
TMCLKL	HY/2012/08	2019-11-20	Mid-Flood	SR4(N2)	Cloudy	Calm	13:12	4.1	Bottom	3	2	24.2	8.1	31.1	8	7.7	6.8
TMCLKL	HY/2012/08	2019-11-20	Mid-Flood	IS8(N)	Cloudy	Calm	13:05	3.9	Surface	1	1	24.4	8.1	32.3	8	4.5	6.9
TMCLKL	HY/2012/08	2019-11-20	Mid-Flood	IS8(N)	Cloudy	Calm	13:05	3.9	Surface	1	2	24.4	8.1	31.3	8	4.5	7
TMCLKL	HY/2012/08	2019-11-20	Mid-Flood	IS8(N)	Cloudy	Calm		3.9	Middle	2	1	27.7	10.1	01.0		17.0	'
TMCLKL	HY/2012/08	2019-11-20	Mid-Flood	IS8(N)	Cloudy	Calm	13:05	3.9	Middle	2	2		+				
TMCLKL	HY/2012/08	2019-11-20	Mid-Flood	IS8(N)	Cloudy	Calm	13:05	3.9	Bottom	3	1	24.5	8.1	32.5	7 7	Ω	7.3
TMCLKL	HY/2012/08	2019-11-20	Mid-Flood	IS8(N)	Cloudy	Calm	13:05	3.9	Bottom	3	2	24.5	8	31.5	7.7	7.7	7.2
TMCLKL	HY/2012/08	2019-11-20	Mid-Flood	IS(Mf)9	Cloudy	Calm	12:59	3.5	Surface	1	1	24.4	8.2	32.1	8.3	6.6	5.8
						Calm		_		1	2	24.2	8.1	31.2			
TMCLKL TMCLKL	HY/2012/08 HY/2012/08	2019-11-20 2019-11-20	Mid-Flood Mid-Flood	IS(Mf)9 IS(Mf)9	Cloudy Cloudy	Calm	12:59 12:59	3.5	Surface Middle	2	1	24.2	0.1	31.2	8.3	6.6	5.5
TMCLKL	HY/2012/08	2019-11-20		IS(Mf)9	Cloudy	Calm			Middle	2	12	+	+				+
			Mid-Flood					3.5	+	2	1	24.2	0.2	32.2	0.1	0.6	7.2
TMCLKL	HY/2012/08	2019-11-20	Mid-Flood	IS(Mf)9	Cloudy	Calm Calm		3.5	Bottom	3	10	24.3 24.2	8.2		8.1	9.6	7.2
TMCLKL	HY/2012/08	2019-11-20	Mid-Flood	IS(Mf)9	Cloudy		12:59	3.5	Bottom	3	4		8.1	31.2	0.1	9.4	7.8
TMCLKL	HY/2012/08	2019-11-20	Mid-Flood	IS(Mf)11	Cloudy	Moderate	13:43	11.1	Surface	1	1	24.3	8.1	32.2	8	3.7	6.6
TMCLKL	HY/2012/08	2019-11-20	Mid-Flood	IS(Mf)11	Cloudy	Moderate	13:43	11.1	Surface	1	2	24.3	8.1	31.3	8	3.9	6.6
TMCLKL	HY/2012/08	2019-11-20	Mid-Flood	IS(Mf)11	Cloudy	Moderate	13:43	11.1	Middle	2	1	24.3	8.1	32.3	7.6	6.5	7.2
TMCLKL	HY/2012/08	2019-11-20	Mid-Flood	IS(Mf)11	Cloudy	Moderate	13:43	11.1	Middle	2	2	24.3	8.1	31.4	7.8	6.6	7.4
TMCLKL	HY/2012/08	2019-11-20	Mid-Flood	IS(Mf)11	Cloudy	Moderate	13:43	11.1	Bottom	3	1	24.3	8.1	32.4	7.5	8.5	7.6
TMCLKL	HY/2012/08	2019-11-20	Mid-Flood	IS(Mf)11	Cloudy	Moderate	13:43	11.1	Bottom	3	2	24.3	8.1	31.5	7.5	8.6	1./
TMCLKL	HY/2012/08	2019-11-20	Mid-Flood	SR7	Cloudy	Moderate	_	4.6	Surface	1	1	24.4	8.1	32.5	7.8	3.1	7.7
TMCLKL	HY/2012/08	2019-11-20	Mid-Flood	SR7	Cloudy	Moderate	14:41	4.6	Surface	1	2	24.4	8	31.5	7.9	3	7.2
TMCLKL	HY/2012/08	2019-11-20	Mid-Flood	SR7	Cloudy	Moderate	14:41	4.6	Middle	2	1		1				
TMCLKL	HY/2012/08	2019-11-20	Mid-Flood	SR7	Cloudy	Moderate	14:41	4.6	Middle	2	2		1				
TMCLKL	HY/2012/08	2019-11-20	Mid-Flood	SR7	Cloudy	Moderate	14:41	4.6	Bottom	3	1	24.4	8.1	32.5	7.8	3	6.6
TMCLKL	HY/2012/08	2019-11-20	Mid-Flood	SR7	Cloudy	Moderate	14:41	4.6	Bottom	3	2	24.4	8.1	31.5	7.9	3	6.4
TMCLKL	HY/2012/08	2019-11-20	Mid-Flood	IS17	Cloudy	Moderate		9.1	Surface	1	1	24.3	8.1	32.3	8	2.1	9.5
TMCLKL	HY/2012/08	2019-11-20	Mid-Flood	IS17	Cloudy	Moderate		9.1	Surface	1	2	24.3	8.1	31.3	8	2.1	9.7
TMCLKL	HY/2012/08	2019-11-20	Mid-Flood	IS17	Cloudy	Moderate		9.1	Middle	2	1	24.3	8.1	32.5	7.6	2.8	7.4
TMCLKL	HY/2012/08	2019-11-20	Mid-Flood	IS17	Cloudy	Moderate		9.1	Middle	2	2	24.3	8.1	31.5	7.6	2.6	7.1
TMCLKL	HY/2012/08	2019-11-20	Mid-Flood	IS17	Cloudy	Moderate		9.1	Bottom	3	1	24.4	8.1	32.7	7.4	4.7	5.8
TMCLKL	HY/2012/08	2019-11-20	Mid-Flood	IS17	Cloudy	Moderate		9.1	Bottom	3	2	24.3	8.1	31.8	7.3	4.8	5.3
TMCLKL	HY/2012/08	2019-11-22	Mid-Ebb	CS(Mf)5	Fine	Moderate	07:53	12.6	Surface	1	1	23.9	8	34.3	7	1.4	5.1
TMCLKL	HY/2012/08	2019-11-22	Mid-Ebb	CS(Mf)5	Fine	Moderate	07:53	12.6	Surface	1	2	23.9	8.1	34.3	7	1.7	4.1
TMCLKL	HY/2012/08	2019-11-22	Mid-Ebb	CS(Mf)5	Fine	Moderate	07:53	12.6	Middle	2	1	24.2	8.1	34.6	6.7	1.5	3
TMCLKL	HY/2012/08	2019-11-22	Mid-Ebb	CS(Mf)5	Fine	Moderate	07:53	12.6	Middle	2	2	24.2	8.1	34.6	6.7	1.7	4.2
TMCLKL	HY/2012/08	2019-11-22	Mid-Ebb	CS(Mf)5	Fine	Moderate	07:53	12.6	Bottom	3	1	24.6	8.1	35.2	6.5	2.2	2
TMCLKL	HY/2012/08	2019-11-22	Mid-Ebb	CS(Mf)5	Fine	Moderate	07:53	12.6	Bottom	3	2	24.6	8.1	35.2	6.6	2.5	3.1
TMCLKL	HY/2012/08	2019-11-22	Mid-Ebb	CS(Mf)3(N)	Fine	Moderate	08:54	7	Surface	1	1	23.7	8.2	34.1	7.3	2.4	3.3
TMCLKL	HY/2012/08	2019-11-22	Mid-Ebb	CS(Mf)3(N)	Fine	Moderate	08:54	7	Surface	1	2	23.7	8.2	34.1	7.4	2.6	3.3
TMCLKL	HY/2012/08	2019-11-22	Mid-Ebb	CS(Mf)3(N)	Fine	Moderate	08:54	7	Middle	2	1	23.6	8.2	34.2	7.2	2.6	3.6
TMCLKL	HY/2012/08	2019-11-22	Mid-Ebb	CS(Mf)3(N)	Fine	Moderate	08:54	7	Middle	2	2	23.6	8.2	34.2	7.2	3	4.5
TMCLKL	HY/2012/08	2019-11-22	Mid-Ebb	CS(Mf)3(N)	Fine	Moderate	08:54	7	Bottom	3	1	23.5	8.2	34.6	7.3	2.8	3.7
TMCLKL	HY/2012/08	2019-11-22	Mid-Ebb		Fine	Moderate	08:54	7	Bottom	3	2	23.5	8.2	34.5	7.2	3.3	4.7
TMCLKL	HY/2012/08	2019-11-22	Mid-Ebb	IS(Mf)16	Fine	Moderate	09:39	5.5	Surface	1	1	24	8	33.7	7.2	6.3	12.2
TMCLKL	HY/2012/08	2019-11-22	Mid-Ebb	IS(Mf)16	Fine	Moderate	09:39	5.5	Surface	1	2	24	8	33.7	7.2	6.3	11.9
TMCLKL	HY/2012/08	2019-11-22	Mid-Ebb	IS(Mf)16	Fine	Moderate	09:39	5.5	Middle	2	1		1				
	HY/2012/08			- 	Fine	Moderate	09:39		+	2	2		1	1		1	+
	+		Mid-Ebb		Fine	Moderate		5.5	Bottom	3	1 1	24	8	33.8	7.1	8.6	11.6
TMCLKL	HY/2012/08	2019-11-22	HVII()-I=th	HOUMHIN	ILIIIG		1 (1.7) . 1 7	1.1	IDOHOH				10			10.0	

Project	Contract	Date	Tide	Stat	Weather	Sea	Time	Water	Lovel	Lev_Cod	Poplicato	Tomp(°C)		Salinity(nnt)	DO(ma/L)	Turbidity/NTU)	SS(mg/L)
Project	Contract	Date	Tide	Stat	weather	Condition	Time	Depth	Level	Lev_Cou	Replicate	Temp(°C)	рН	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)
TMCLKL	HY/2012/08	2019-11-22	Mid-Ebb	SR4a	Fine	Calm	09:51	4.3	Surface	1	1	24.1	8	33.8	6.9	3.9	7.8
TMCLKL	HY/2012/08	2019-11-22	Mid-Ebb	SR4a	Fine	Calm	09:51	4.3	Surface	1	2	24.1	8	33.8	6.9	4.2	8.7
TMCLKL	HY/2012/08	2019-11-22	Mid-Ebb	SR4a	Fine	Calm		4.3	Middle	2	1						
TMCLKL	HY/2012/08	2019-11-22	Mid-Ebb	SR4a	Fine	Calm	_	4.3	Middle	2	2						
TMCLKL	HY/2012/08	2019-11-22	Mid-Ebb	SR4a	Fine	Calm		4.3	Bottom	3	1	24.1	7.9	34	6.9	4.4	7.9
TMCLKL	HY/2012/08	2019-11-22	Mid-Ebb	SR4a	Fine	Calm		4.3	Bottom	3	2	24.1	8	34	7	4.9	7.8
TMCLKL	HY/2012/08	2019-11-22	Mid-Ebb	SR4(N2)	Fine	Calm	09:56	4.1	Surface	1	1	23.9	7.9	33.6	6.8	7.1	15.7
TMCLKL	HY/2012/08	2019-11-22	Mid-Ebb	SR4(N2)	Fine	Calm	09:56	4.1	Surface	1	2	23.9	8	33.6	6.8	7.4	13.9
TMCLKL	HY/2012/08	2019-11-22	Mid-Ebb	SR4(N2)	Fine	Calm	09:56	4.1	Middle	2	1						
TMCLKL	HY/2012/08	2019-11-22	Mid-Ebb	SR4(N2)	Fine	Calm	09:56	4.1	Middle	2	2		<u> </u>				
TMCLKL	HY/2012/08	2019-11-22	Mid-Ebb	SR4(N2)	Fine	Calm		4.1	Bottom	3	1	24	7.9	33.9	6.8	8.6	9.5
TMCLKL	HY/2012/08	2019-11-22	Mid-Ebb	SR4(N2)	Fine	Calm		4.1	Bottom	3	2	24	8	33.9	6.9	9.1	8.5
TMCLKL	HY/2012/08	2019-11-22	Mid-Ebb	IS8(N)	Fine	Calm	10:05	3.8	Surface	1	1	24.1	8	33.8	7.2	5.7	8.8
TMCLKL	HY/2012/08	2019-11-22	Mid-Ebb	IS8(N)	Fine	Calm	10:05	3.8	Surface	1	2	24.1	8.1	33.8	7.3	5.9	9.3
TMCLKL	HY/2012/08	2019-11-22	Mid-Ebb	IS8(N)	Fine	Calm	10:05	3.8	Middle	2	1						
TMCLKL	HY/2012/08	2019-11-22	Mid-Ebb	IS8(N)	Fine	Calm		3.8	Middle	2	2		-	00.0	7.0	0.4	
TMCLKL	HY/2012/08	2019-11-22	Mid-Ebb	IS8(N)	Fine	Calm		3.8	Bottom	3	11	24.1	8	33.9	7.3	6.1	8.9
TMCLKL	HY/2012/08	2019-11-22	Mid-Ebb	IS8(N)	Fine	Calm		3.8	Bottom	3	2	24.1	8	33.9	7.2	6.5	8.4
TMCLKL	HY/2012/08	2019-11-22	Mid-Ebb	IS(Mf)9	Fine	Calm		3.4	Surface	11	1	24	8	33.7	7.3	4.9	10.5
TMCLKL	HY/2012/08	2019-11-22	Mid-Ebb	IS(Mf)9	Fine	Calm		3.4	Surface	11	2	24	8.1	33.7	7.4	5.1	9.7
TMCLKL	HY/2012/08	2019-11-22	Mid-Ebb	IS(Mf)9	Fine	Calm		3.4	Middle	2	1		+	-			
TMCLKL	HY/2012/08	2019-11-22	Mid-Ebb	IS(Mf)9	Fine	Calm		3.4	Middle	2	2	100.0	-	00.7	7.4	5.0	14.0
TMCLKL	HY/2012/08	2019-11-22	Mid-Ebb	IS(Mf)9	Fine	Calm		3.4	Bottom	3	1	23.9	8	33.7	7.4	5.2	4.9
TMCLKL	HY/2012/08	2019-11-22	Mid-Ebb	IS(Mf)9	Fine	Calm		3.4	Bottom	3	2	23.9	8.1	33.7	7.3	5.5	3.9
TMCLKL	HY/2012/08	2019-11-22	Mid-Ebb	IS(Mf)11	Fine	Moderate		11.2	Surface	1	1	24.1	8	34.1	7.1	2.6	3.4
TMCLKL	HY/2012/08	2019-11-22	Mid-Ebb	IS(Mf)11	Fine	Moderate		11.2	Surface	1	2	24.1	8.1	34.1	7.1	2.7	4.4
TMCLKL	HY/2012/08	2019-11-22	Mid-Ebb	IS(Mf)11	Fine	Moderate	09:21	11.2	Middle	2	1	24.1	8.1	34.1	7.1	3.2	3.4
TMCLKL	HY/2012/08	2019-11-22	Mid-Ebb	IS(Mf)11	Fine	Moderate		11.2	Middle	2	2	24.1	8.1	34.1	7.1	3.6	4.1
TMCLKL	HY/2012/08	2019-11-22	Mid-Ebb	IS(Mf)11	Fine	Moderate		11.2	Bottom	3	1	24.1	8.1	34.1	7.4	5.7	3.7
TMCLKL	HY/2012/08	2019-11-22	Mid-Ebb	IS(Mf)11	Fine	Moderate	09:21	11.2	Bottom	3	2	24.1	8.2	34.1	7.1	5.4	4.7
TMCLKL	HY/2012/08	2019-11-22	Mid-Ebb	SR7 SR7	Fine	Moderate		4.5	Surface	1	12	24.1	8.1 8.1	34.3	6.8	2.9	3.4
TMCLKL	HY/2012/08		Mid-Ebb	SR7	Fine	Moderate		4.5	Surface Middle	12	1	24.1	0.1	34.3	6.8	3.1	4.4
TMCLKL	HY/2012/08 HY/2012/08	2019-11-22	Mid-Ebb Mid-Ebb	SR7	Fine Fine	Moderate		4.5 4.5	Middle	2	12	+	+				
TMCLKL TMCLKL	HY/2012/08	2019-11-22	Mid-Ebb	SR7	Fine	Moderate		4.5	Bottom	2	1	24.1	8.1	34.3	6.7	2.9	2.4
TMCLKL	HY/2012/08	2019-11-22	Mid-Ebb	SR7	Fine	Moderate Moderate		4.5	Bottom	3	2	24.1	8.2	34.3	6.6	3.2	3.3
TMCLKL	HY/2012/08	2019-11-22	Mid-Ebb	IS17	Fine	Moderate	09:29	10.7	Surface	1	1	24.1	7.9	34.1	7	2.9	4.3
TMCLKL	HY/2012/08	2019-11-22	Mid-Ebb	IS17	Fine	Moderate	09:29	10.7	Surface	1	2	24.1	8	34.1	7.1	3.1	5
TMCLKL	HY/2012/08	2019-11-22	Mid-Ebb	IS17	Fine	Moderate	09:29	10.7	Middle	2	1	24.1	7.9	34.2	6.9	2.9	4.5
TMCLKL	HY/2012/08	2019-11-22	Mid-Ebb	IS17	Fine	Moderate	09:29	10.7	Middle	2	2	24.2	8	34.2	6.9	3.1	5.6
TMCLKL	HY/2012/08	2019-11-22	Mid-Ebb	IS17	Fine	Moderate	09:29	10.7	Bottom	2	1	24.2	7.9	34.3	6.8	2.9	4.9
TMCLKL	HY/2012/08	2019-11-22	Mid-Ebb	IS17	Fine	Moderate	09:29	10.7	Bottom	3	2	24.2	8	34.3	6.9	3.2	5.9
TMCLKL	HY/2012/08	2019-11-22	Mid-Ebb Mid-Flood	CS(Mf)5	Fine	Moderate	16:52	12	Surface	1	1	24.2	8	34.9	6.9	2	5.5
TMCLKL	HY/2012/08	2019-11-22	Mid-Flood	CS(Mf)5	Fine	Moderate	16:52	12	Surface	11	2	24.4	8	34.9	6.9	2.4	6.4
TMCLKL	HY/2012/08	2019-11-22	Mid-Flood	CS(Mf)5	Fine	Moderate	16:52	12	Middle	2	1	24.5	8	34.9	6.7	4.2	5.8
TMCLKL	HY/2012/08	2019-11-22	Mid-Flood	CS(Mf)5	Fine	Moderate	16:52	12	Middle	2	2	24.5	8.1	34.9	6.8	4.3	4.9
TMCLKL	HY/2012/08	2019-11-22	Mid-Flood	CS(Mf)5	Fine	Moderate	16:52	12	Bottom	3	1	24.5	8.1	34.9	6.7	5	3.6
TMCLKL	HY/2012/08	2019-11-22	Mid-Flood	CS(Mf)5	Fine	Moderate		12	Bottom	3	2	24.5	8.1	34.9	6.8	5.3	4.8
TMCLKL	HY/2012/08	2019-11-22	Mid-Flood		Fine	Rough		7.2	Surface	11	 -	24	8	34.1	7.9	3.5	6.2
TMCLKL	HY/2012/08	2019-11-22	Mid-Flood		Fine	Rough		7.2	Surface	11	2	24	8	34.1	8	3.6	7.2
TMCLKL	HY/2012/08	2019-11-22	Mid-Flood		Fine	Rough		7.2	Middle	2	1 1	24	8	34.1	7.8	3.4	6.1
TMCLKL	HY/2012/08	2019-11-22	Mid-Flood		Fine	Rough		7.2	Middle	2	2	24	8	34.1	7.9	3.5	6.7
TMCLKL	HY/2012/08	2019-11-22	Mid-Flood		Fine	Rough		7.2	Bottom	3	1 -	24	8	34.1	7.6	3.3	5.3
TMCLKL	HY/2012/08	2019-11-22	Mid-Flood	- 	Fine	Rough		7.2	Bottom	3	2	24	8	34.1	7.7	3.4	6.3
TMCLKL	HY/2012/08	2019-11-22	Mid-Flood	IS(Mf)16	Fine	Moderate		5.1	Surface	11	1 -	24.5	8	34.1	7.3	5.3	6.7
TMCLKL	HY/2012/08	2019-11-22	Mid-Flood	IS(Mf)16	Fine	Moderate		5.1	Surface	11	2	24.5	8	34.1	7.4	5.4	5.9
TMCLKL	HY/2012/08	2019-11-22	Mid-Flood	IS(Mf)16	Fine	Moderate		5.1	Middle	2	11	1	†	15	1	15	
TMCLKL	HY/2012/08	2019-11-22	Mid-Flood	IS(Mf)16	Fine	Moderate		5.1	Middle	2	2		1		1	1	
	HY/2012/08	2019-11-22	Mid-Flood	IS(Mf)16	Fine	Moderate		5.1	Bottom	- 3	1 -	24.4	7.9	34.1	7.3	6.4	6
TMCLKL	HY/2012/08	2019-11-22	Mid-Flood	IS(Mf)16	Fine	Moderate		5.1	Bottom	3	2	24.4	8	34.1	7.4	6.6	5.4
	HY/2012/08	2019-11-22	Mid-Flood	SR4a	Fine	Calm		4.2	Surface	11	1	24.6		33.7	7.2	3.8	7.9
	1, 2012, 00	1-0.0 1.22	1	1~	1	1	1.0.02		1-2400	1.	1.	1	1	122		10.0	

			L			Sea	<u></u>	Water	Ι	<u> </u>		_ (0.0)	Τ				
Project	Contract	Date	Tide	Stat	Weather	Condition	Time	Depth	Level	Lev_Cod	Replicate	Temp(°C)	рН	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)
TMCLKL	HY/2012/08	2019-11-22	Mid-Flood	SR4a	Fine	Calm		4.2	Surface	1	2	24.6	8	33.7	7.2	4	7.9
TMCLKL	HY/2012/08	2019-11-22		SR4a	Fine	Calm		4.2	Middle	2	1						
TMCLKL	HY/2012/08	2019-11-22		SR4a	Fine	Calm	15:02	4.2	Middle	2	2						
TMCLKL	HY/2012/08	2019-11-22	Mid-Flood	SR4a	Fine	Calm	15:02	4.2	Bottom	3	1	24.4	8	34	7.1	5.4	7.6
TMCLKL	HY/2012/08	2019-11-22	Mid-Flood	SR4a	Fine	Calm	15:02	4.2	Bottom	3	2	24.4	8	34	7.2	5.8	7.9
TMCLKL	HY/2012/08	2019-11-22	Mid-Flood	SR4(N2)	Fine	Calm	14:57	3.9	Surface	1	1	24.7	7.9	33.7	7.2	5.9	8.9
TMCLKL	HY/2012/08	2019-11-22	Mid-Flood	SR4(N2)	Fine	Calm	14:57	3.9	Surface	1	2	24.8	8	33.7	7.2	5.7	8.4
TMCLKL	HY/2012/08	2019-11-22	Mid-Flood	SR4(N2)	Fine	Calm	14:57	3.9	Middle	2	1						
TMCLKL	HY/2012/08	2019-11-22	Mid-Flood	SR4(N2)	Fine	Calm	14:57	3.9	Middle	2	2						
TMCLKL	HY/2012/08	2019-11-22	Mid-Flood	SR4(N2)	Fine	Calm		3.9	Bottom	3	1	24.3	7.9	34	7.2	8.4	6.6
TMCLKL	HY/2012/08	2019-11-22	Mid-Flood	SR4(N2)	Fine	Calm		3.9	Bottom	3	2	24.3	7.9	34	7.1	9.5	7
TMCLKL	HY/2012/08	2019-11-22	Mid-Flood	IS8(N)	Fine	Calm		3.5	Surface	1	1	24.5	7.9	34.1	7.3	8.6	10.8
TMCLKL	HY/2012/08	2019-11-22	Mid-Flood	IS8(N)	Fine	Calm		3.5	Surface	1	2	24.5	8	34.1	7.3	9.2	9.2
TMCLKL	HY/2012/08	2019-11-22	Mid-Flood	IS8(N)	Fine	Calm		3.5	Middle	2	1						
TMCLKL	HY/2012/08	2019-11-22	Mid-Flood	IS8(N)	Fine	Calm		3.5	Middle	2	2						
TMCLKL	HY/2012/08	2019-11-22	Mid-Flood	IS8(N)	Fine	Calm		3.5	Bottom	3	1	24.5	7.9	34.1	7.3	8.7	10.6
TMCLKL	HY/2012/08	2019-11-22	Mid-Flood	IS8(N)	Fine	Calm		3.5	Bottom	3	2	24.5	8	34.1	7.4	9	9.3
TMCLKL	HY/2012/08	2019-11-22	Mid-Flood	IS(Mf)9	Fine	Calm		3.1	Surface	1	1	24.4	8.1	34	7.4	9.4	9.7
TMCLKL	HY/2012/08	2019-11-22	Mid-Flood	IS(Mf)9	Fine	Calm		3.1	Surface	1	2	24.5	8.1	34	7.5	9.5	8.9
TMCLKL	HY/2012/08	2019-11-22	Mid-Flood	IS(Mf)9	Fine	Calm		3.1	Middle	2	1		4				
TMCLKL	HY/2012/08	2019-11-22	Mid-Flood	IS(Mf)9	Fine	Calm		3.1	Middle	2	2						
TMCLKL	HY/2012/08	2019-11-22	Mid-Flood	IS(Mf)9	Fine	Calm		3.1	Bottom	3	1	24.4	8.1	34	7.4	12.1	9.1
TMCLKL	HY/2012/08	2019-11-22	Mid-Flood	IS(Mf)9	Fine	Calm		3.1	Bottom	3	2	24.4	8.2	34	7.4	12.6	8.1
TMCLKL	HY/2012/08	2019-11-22	Mid-Flood	IS(Mf)11	Fine	Moderate		10.9	Surface	1	1	24.2	8	34.2	7.1	6.9	9.4
TMCLKL	HY/2012/08	2019-11-22	Mid-Flood	IS(Mf)11	Fine	Moderate		10.9	Surface	1	2	24.2	8	34.2	7.2	7.1	8.4
TMCLKL	HY/2012/08	2019-11-22	Mid-Flood	IS(Mf)11	Fine	Moderate		10.9	Middle	2	1	24.2	7.9	34.2	7	7.1	9.9
TMCLKL	HY/2012/08	2019-11-22	Mid-Flood	IS(Mf)11	Fine	Moderate	15:27	10.9	Middle	2	2	24.2	8	34.2	7.1	7.5	10.2
	HY/2012/08	2019-11-22	Mid-Flood	IS(Mf)11	Fine	Moderate	15:27	10.9	Bottom	3	1	24.2	7.9	34.2	7	7.2	10.6
	HY/2012/08	2019-11-22		IS(Mf)11	Fine	Moderate		10.9	Bottom	3	2	24.2	8	34.2	7	7.6	10
	HY/2012/08	2019-11-22		SR7	Fine	Moderate		4.3	Surface	1	1	24.3	8.1	34.2	7.3	3.8	5.5
	HY/2012/08			SR7	Fine	Moderate		4.3	Surface	1	2	24.3	8.1	34.2	7.4	3.9	5.9
	HY/2012/08			SR7	Fine	Moderate		4.3	Middle	2	1						
	HY/2012/08			SR7	Fine	Moderate		4.3	Middle	2	2	0.4.0		0.4.0		4.5	
	HY/2012/08	2019-11-22		SR7	Fine	Moderate		4.3	Bottom	3	1	24.3	8.1	34.2	7.3	4.5	5.5
	HY/2012/08	2019-11-22		SR7	Fine	Moderate		4.3	Bottom	3	2	24.3	8.2	34.2	7.4	4.6	5.9
	HY/2012/08	2019-11-22		IS17	Fine	Moderate	15:20	10.4	Surface	1	1	24.2	7.9	34.2	7.2	5.1	9.5
	HY/2012/08	2019-11-22		IS17	Fine	Moderate	15:20	10.4	Surface	1	2	24.2	8	34.2	7.2	4.9	9.6
	HY/2012/08	2019-11-22		IS17	Fine	Moderate	15:20	10.4	Middle	2	1	24.2	7.9	34.2	7.1	6.7	8.4
	HY/2012/08	2019-11-22		IS17	Fine	Moderate	15:20	10.4	Middle	2	2	24.2	8	34.2	7.2	6.9	7.4
	HY/2012/08			IS17	Fine	Moderate		10.4	Bottom	3	1	24.1	7.9	34.1	7.1	8.5	5.7
	HY/2012/08	2019-11-22	Mid-Flood	IS17	Fine	Moderate		10.4	Bottom	3	4	24	8	34.1	7.1	8.8	5.9
	HY/2012/08 HY/2012/08	2019-11-25 2019-11-25	Mid-Ebb Mid-Ebb	CS(Mf)5 CS(Mf)5	Sunny	Moderate	10:37 10:37	12 12	Surface Surface	1	2	24.4 24.4	7.9 7.9	34.5 34.4	6.5 6.6	0.2	3.4
	HY/2012/08	2019-11-25			Sunny Sunny	Moderate Moderate		12	Middle	2	1	24.4	7.9	34.4	6.2	0.7	2.8
	HY/2012/08	2019-11-25	Mid-Ebb	CS(Mf)5	Sunny	Moderate	10:37	12	Middle	2	2	24.5	7.9	34.9	6.3	0.7	3.7
	HY/2012/08			CS(Mf)5	Sunny	Moderate		12	Bottom	3	1	24.5	7.9	35.1	6.2	0.8	2
	HY/2012/08		Mid-Ebb	CS(Mf)5	Sunny	Moderate		12	Bottom	3	2	24.5	7.9	35.1	6.2	0.7	2.9
	HY/2012/08	2019-11-25			Sunny	Moderate		7.2	Surface	1	1	24.5	7.9	32.5	7.2	3	8
	HY/2012/08		Mid-Ebb		Sunny	Moderate		7.2	Surface	1	2	24.7	7.9	32.3	7.2	2.9	9
	HY/2012/08	2019-11-25	Mid-Ebb		Sunny	Moderate		7.2	Middle	2	1	24.7	7.9	33.6	7	6.1	4.5
	HY/2012/08	2019-11-25	Mid-Ebb		Sunny	Moderate		7.2	Middle	2	2	24.2	7.9	33.6	7	5.5	5.5
	HY/2012/08	2019-11-25		CS(Mf)3(N)	Sunny	Moderate		7.2	Bottom	3	1	24.2	8	33.9	7	7.7	3.7
	HY/2012/08	2019-11-25			Sunny	Moderate		7.2	Bottom	3	2	24.2	8	33.9	7	8.1	4.6
	HY/2012/08	2019-11-25	Mid-Ebb	IS(Mf)16	Sunny	Calm		5.8	Surface	1	1	24.2	8	34.1	7	5.6	7 1
	HY/2012/08	2019-11-25		IS(Mf)16	Sunny	Calm		5.8	Surface	1	2	24.6	8	34.1	7.1	4.5	7
	HY/2012/08			IS(Mf)16	Sunny	Calm			Middle	2	1	27.0	Ψ	JUT. 1	1.1	7.0	+
	HY/2012/08	2019-11-25	Mid-Ebb	IS(Mf)16	Sunny	Calm		5.8	Middle	2	2	 	+	 	+		+
	HY/2012/08	2019-11-25	Mid-Ebb	IS(Mf)16	Sunny	Calm		5.8	Bottom	3	1	24.5	8	34.1	7	9	6.6
	HY/2012/08			IS(Mf)16	Sunny	Calm			Bottom	3	2	24.5	8	34.1	7	9.3	6.3
	HY/2012/08			SR4a	Sunny	Calm		5.1	Surface	1	1	24.5	7.9	34	7	3.8	5.7
	HY/2012/08				Sunny	Calm			Surface	1	2	24.4		34	7	3.4	6.7
LIVIOLIVE	111/2012/00	<u> </u> 2013-11-23	Inina-Enn	JOIN 1 a	Journey	Joann	14.34	JJ. I	Journace	Γ'	14	24.4	۱۱.5	الم		JO. 4	JU.1

						Sea		Water			Ι		1				
Project	Contract	Date	Tide	Stat	Weather	Condition	Time	Depth	Level	Lev_Cod	Replicate	Temp(°C)	рН	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)
TMCLKL	HY/2012/08	2019-11-25	Mid-Ebb	SR4a	Sunny		12:34	5.1	Middle	2	1					+	+
TMCLKL	HY/2012/08	2019-11-25	Mid-Ebb	SR4a			12:34	5.1	Middle	2	2					+	+
TMCLKL	HY/2012/08	2019-11-25	Mid-Ebb	SR4a		Calm	12:34	5.1	Bottom	2	1	24.3	7.9	34	6.9	6.5	5.3
TMCLKL	HY/2012/08	2019-11-25	Mid-Ebb	SR4a		Calm	12:34	5.1	Bottom	3	2	24.3	7.9	34	6.9	5.9	6.2
TMCLKL	HY/2012/08	2019-11-25	Mid-Ebb	SR4(N2)			12:38	3.3	Surface	1	1	24.7	7.9	33.9	7 1	2.2	5.6
TMCLKL	HY/2012/08	2019-11-25	Mid-Ebb	SR4(N2)			12:38	3.3	Surface	1	2	24.7	7.9	33.9	7.1	2.4	6
TMCLKL	HY/2012/08	2019-11-25	Mid-Ebb	SR4(N2)			12:38	3.3	Middle	2	1	24.7	1.9	33.9		2.4	
TMCLKL	+	2019-11-25	Mid-Ebb	SR4(N2)			12:38	+	Middle	2	2		+			+	+
	HY/2012/08		-	\ /			-	3.3		2	1	24.7	7.0	24	7.4	0.4	6.6
TMCLKL	HY/2012/08	2019-11-25	Mid-Ebb	SR4(N2)			12:38	3.3	Bottom	3	2	24.7	7.9	34	7.1	2.1	6.6
TMCLKL	HY/2012/08	2019-11-25	Mid-Ebb	SR4(N2)			12:38	3.3	Bottom	3	4	24.7	7.9	33.9	7.1	2	7.3
TMCLKL	HY/2012/08	2019-11-25	Mid-Ebb	IS8(N)		Calm	12:45	4	Surface	1	1	24.6	8	34	7.3	3	5.6
TMCLKL	HY/2012/08	2019-11-25	Mid-Ebb	IS8(N)		Calm	12:45	4	Surface	1	2	24.7	8	34	7.3	2.6	6.6
TMCLKL	HY/2012/08	2019-11-25	Mid-Ebb	IS8(N)	_		12:45	4	Middle	2	2		-				+
TMCLKL	HY/2012/08	2019-11-25	Mid-Ebb	IS8(N)	_		12:45	4	Middle	2	2	04.0		0.4.4	7.0	1	
TMCLKL	HY/2012/08	2019-11-25	Mid-Ebb	IS8(N)	_		12:45	4	Bottom	3	1	24.6	8	34.1	7.2	4	5.9
TMCLKL	HY/2012/08	2019-11-25	Mid-Ebb	IS8(N)			12:45	4	Bottom	3	2	24.6	8	34.1	7.2	3.7	6.8
TMCLKL	HY/2012/08	2019-11-25	Mid-Ebb	IS(Mf)9			12:55	3.2	Surface	1	1	24.7	8	34.4	7	6	11.1
TMCLKL	HY/2012/08	2019-11-25	Mid-Ebb	IS(Mf)9	Sunny		12:55	3.2	Surface	1	2	24.7	8	34.4	7	6.2	11.5
TMCLKL	HY/2012/08	2019-11-25	Mid-Ebb	IS(Mf)9	_	Calm	12:55	3.2	Middle	2	1		1			<u> </u>	
TMCLKL	HY/2012/08	2019-11-25	Mid-Ebb	IS(Mf)9		Calm	12:55	3.2	Middle	2	2		1			1	
TMCLKL	HY/2012/08	2019-11-25	Mid-Ebb	IS(Mf)9			12:55	3.2	Bottom	3	[1	24.6	8	34.4	7	6.1	12.1
TMCLKL	HY/2012/08	2019-11-25	Mid-Ebb	IS(Mf)9			12:55	3.2	Bottom	3	2	24.6	8	34.4	7	5.9	11.1
TMCLKL	HY/2012/08	2019-11-25	Mid-Ebb	IS(Mf)11			11:11	11.2	Surface	1	1	24.4	8	33.9	7.1	1.3	3.7
TMCLKL	HY/2012/08	2019-11-25	Mid-Ebb	IS(Mf)11	Sunny		11:11	11.2	Surface	1	2	24.5	8	33.9	7.1	1.2	4.3
TMCLKL	HY/2012/08	2019-11-25	Mid-Ebb	IS(Mf)11	Sunny	Moderate	11:11	11.2	Middle	2	1	24.3	7.9	34	6.9	2.1	3.4
TMCLKL	HY/2012/08	2019-11-25	Mid-Ebb	IS(Mf)11	Sunny	Moderate	11:11	11.2	Middle	2	2	24.3	7.9	34	6.9	1.9	4.4
TMCLKL	HY/2012/08	2019-11-25	Mid-Ebb	IS(Mf)11	Sunny	Moderate	11:11	11.2	Bottom	3	1	24.3	7.9	34	6.9	2.1	7.8
TMCLKL	HY/2012/08	2019-11-25	Mid-Ebb	IS(Mf)11	Sunny	Moderate	11:11	11.2	Bottom	3	2	24.3	7.9	34	6.9	2.2	8.6
TMCLKL	HY/2012/08	2019-11-25	Mid-Ebb	SR7	Sunny	Calm	11:02	4.4	Surface	1	1	24.5	7.9	34	7.2	1.2	2.8
TMCLKL	HY/2012/08	2019-11-25	Mid-Ebb	SR7	Sunny	Calm	11:02	4.4	Surface	1	2	24.5	7.9	34	7.2	1.1	3.4
TMCLKL	HY/2012/08	2019-11-25	Mid-Ebb	SR7	Sunny	Calm	11:02	4.4	Middle	2	1						
TMCLKL	HY/2012/08	2019-11-25	Mid-Ebb	SR7	Sunny	Calm	11:02	4.4	Middle	2	2						
TMCLKL	HY/2012/08	2019-11-25	Mid-Ebb	SR7	Sunny	Calm	11:02	4.4	Bottom	3	1	24.4	7.9	34	7.1	0.9	4
TMCLKL	HY/2012/08	2019-11-25	Mid-Ebb	SR7	Sunny	Calm	11:02	4.4	Bottom	3	2	24.4	7.9	34	7.1	0.9	5
TMCLKL	HY/2012/08	2019-11-25	Mid-Ebb	IS17	Sunny	Moderate	12:12	9.9	Surface	1	1	24.4	7.9	33.9	7.1	3.2	10.7
TMCLKL	HY/2012/08	2019-11-25	Mid-Ebb	IS17		Moderate	12:12	9.9	Surface	1	2	24.4	7.9	33.9	7.1	3.4	9.7
TMCLKL	HY/2012/08	2019-11-25	Mid-Ebb	IS17	Sunny	Moderate	12:12	9.9	Middle	2	1	24.4	7.9	33.9	7.1	3.5	9.7
TMCLKL	HY/2012/08	2019-11-25	Mid-Ebb	IS17	Sunny	Moderate	12:12	9.9	Middle	2	2	24.3	7.9	33.9	7.1	3.4	10.1
TMCLKL	HY/2012/08	2019-11-25	Mid-Ebb	IS17	Sunny	Moderate	12:12	9.9	Bottom	3	1	24.3	7.9	33.9	7	3.5	7.9
TMCLKL	HY/2012/08	2019-11-25	Mid-Ebb	IS17	Sunny	Moderate	12:12	9.9	Bottom	3	2	24.3	7.9	33.9	7	3.4	7.7
TMCLKL	HY/2012/08	2019-11-25	Mid-Flood	CS(Mf)5	Sunny	Moderate	18:05	11.8	Surface	1	1	24.6	8	34.8	6.5	6.4	5.7
TMCLKL	HY/2012/08	2019-11-25	Mid-Flood	CS(Mf)5	Sunny		18:05	11.8	Surface	1	2	24.6	8	34.8	6.5	5.9	5.5
TMCLKL	HY/2012/08	2019-11-25	Mid-Flood	CS(Mf)5	Sunny	Moderate	18:05	11.8	Middle	2	1	24.6	8	34.8	6.5	5.2	3.5
TMCLKL	HY/2012/08	2019-11-25	Mid-Flood	CS(Mf)5	Sunny		18:05	11.8	Middle	2	2	24.6	8	34.8	6.5	5.8	3.4
TMCLKL	HY/2012/08	2019-11-25	Mid-Flood	CS(Mf)5	Sunny		18:05	11.8	Bottom	3	1	24.6	8	34.8	6.5	5.2	3.3
TMCLKL	HY/2012/08	2019-11-25	Mid-Flood	CS(Mf)5	Sunny		18:05	11.8	Bottom	3	2	24.6	8	34.8	6.5	5.1	3.9
TMCLKL	HY/2012/08	2019-11-25	Mid-Flood	CS(Mf)3(N)	Fine		17:00	7.2	Surface	1	1	24.6	8.2	33.1	7.5	4.8	3.1
TMCLKL	HY/2012/08	2019-11-25	Mid-Flood	CS(Mf)3(N)			17:00	7.2	Surface	1	2	24.6	8.2	33.1	7.5	4.5	3.1
TMCLKL	HY/2012/08	2019-11-25	Mid-Flood	CS(Mf)3(N)			17:00	7.2	Middle	2	1	24.6	8.2	33.1	7.5	5.3	3
TMCLKL	HY/2012/08	2019-11-25	Mid-Flood	CS(Mf)3(N)	Fine		17:00	7.2	Middle	2	2	24.6	8.2	33.1	7.5	5.4	3.5
TMCLKL	HY/2012/08	2019-11-25	Mid-Flood	CS(Mf)3(N)	Fine		17:00	7.2	Bottom	3	1	24.6	8.2	33.1	7.4	5.4	3.7
TMCLKL	HY/2012/08	2019-11-25	Mid-Flood	CS(Mf)3(N)			17:00	7.2	Bottom	3	2	24.6	8.2	33.1	7.4	5.7	4.5
TMCLKL	HY/2012/08	2019-11-25	Mid-Flood	IS(Mf)16			16:29	5.5	Surface	1	1	24.6	8.3	34	7.4	5.7	7.4
TMCLKL	HY/2012/08	2019-11-25	Mid-Flood	· '			16:29	5.5	Surface	1	2	24.7	8.3	34	7.3	4.7	8.4
TMCLKL	HY/2012/08	2019-11-25	Mid-Flood	IS(Mf)16	'		16:29	5.5	Middle	2	1	24.1	0.3	J 4	1.3	7.1	0.4
-				IS(Mf)16	'		•	+		2	2	+	+	+		+	+
TMCLKL	HY/2012/08	2019-11-25	Mid-Flood	IS(Mf)16			16:29	5.5	Middle	2	1	24.7	0.2	24.4	7.2	5.2	62
TMCLKL	HY/2012/08	2019-11-25	Mid-Flood	IS(Mf)16	Sunny	Calm	16:29	5.5	Bottom	3	12	24.7	8.3	34.1	7.3	5.3	6.3
TMCLKL	HY/2012/08	2019-11-25	Mid-Flood	IS(Mf)16	Sunny	Calm	16:29	5.5	Bottom	3	<u> </u>	24.7	8.3	34.1	7.2	6	7.2
TMCLKL	HY/2012/08		Mid-Flood	SR4a			16:20	4.8	Surface	1	1	24.5	7.7	34	6.8	7.6	6.4
	HY/2012/08		Mid-Flood	SR4a			16:20	4.8	Surface	1	2	24.6	7.7	34	6.9	7.3	5.4
LIMICLKL	HY/2012/08	2019-11-25	Mid-Flood	SR4a	Sunny	Calm	16:20	4.8	Middle	2	<u>[1</u>						

TMCLKL	HY/2012/08 HY/2012/08 HY/2012/08 HY/2012/08 HY/2012/08 HY/2012/08 HY/2012/08 HY/2012/08 HY/2012/08 HY/2012/08 HY/2012/08 HY/2012/08 HY/2012/08 HY/2012/08 HY/2012/08	2019-11-25 2019-11-25 2019-11-25 2019-11-25 2019-11-25 2019-11-25 2019-11-25 2019-11-25 2019-11-25 2019-11-25 2019-11-25 2019-11-25	Mid-Flood	SR4a SR4a SR4a SR4(N2) SR4(N2) SR4(N2) SR4(N2) SR4(N2)	Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny	Condition Calm Calm Calm Calm Calm Calm Calm Calm	16:20 16:20 16:20 16:15	Depth 4.8 4.8 4.8	Middle Bottom	2	2	04.4	7.7				- F 0
TMCLKL	HY/2012/08 HY/2012/08 HY/2012/08 HY/2012/08 HY/2012/08 HY/2012/08 HY/2012/08 HY/2012/08 HY/2012/08 HY/2012/08 HY/2012/08 HY/2012/08	2019-11-25 2019-11-25 2019-11-25 2019-11-25 2019-11-25 2019-11-25 2019-11-25 2019-11-25 2019-11-25	Mid-Flood Mid-Flood Mid-Flood Mid-Flood Mid-Flood Mid-Flood Mid-Flood Mid-Flood Mid-Flood	SR4a SR4a SR4(N2) SR4(N2) SR4(N2) SR4(N2) SR4(N2)	Sunny Sunny Sunny Sunny Sunny Sunny	Calm Calm Calm Calm	16:20 16:20	4.8	Bottom	3	1/4	04.4	77	10.4	1_	15.0	F 0
TMCLKL	HY/2012/08 HY/2012/08 HY/2012/08 HY/2012/08 HY/2012/08 HY/2012/08 HY/2012/08 HY/2012/08 HY/2012/08 HY/2012/08 HY/2012/08	2019-11-25 2019-11-25 2019-11-25 2019-11-25 2019-11-25 2019-11-25 2019-11-25 2019-11-25	Mid-Flood Mid-Flood Mid-Flood Mid-Flood Mid-Flood Mid-Flood Mid-Flood Mid-Flood	SR4a SR4(N2) SR4(N2) SR4(N2) SR4(N2) SR4(N2)	Sunny Sunny Sunny Sunny Sunny	Calm Calm Calm	16:20	+			11	24.4	17.7	34	17	5.8	5.8
TMCLKL	HY/2012/08 HY/2012/08 HY/2012/08 HY/2012/08 HY/2012/08 HY/2012/08 HY/2012/08 HY/2012/08 HY/2012/08	2019-11-25 2019-11-25 2019-11-25 2019-11-25 2019-11-25 2019-11-25 2019-11-25	Mid-Flood Mid-Flood Mid-Flood Mid-Flood Mid-Flood Mid-Flood	SR4(N2) SR4(N2) SR4(N2) SR4(N2) SR4(N2)	Sunny Sunny Sunny Sunny	Calm Calm			Bottom	3	2	24.4	7.7	34	6.9	5.4	5.3
TMCLKL	HY/2012/08 HY/2012/08 HY/2012/08 HY/2012/08 HY/2012/08 HY/2012/08 HY/2012/08 HY/2012/08	2019-11-25 2019-11-25 2019-11-25 2019-11-25 2019-11-25 2019-11-25 2019-11-25	Mid-Flood Mid-Flood Mid-Flood Mid-Flood	SR4(N2) SR4(N2) SR4(N2) SR4(N2)	Sunny Sunny Sunny	Calm		3.1	Surface	1	1	24.6	7.7	33.9	7.2	4.3	3.8
TMCLKL	HY/2012/08 HY/2012/08 HY/2012/08 HY/2012/08 HY/2012/08 HY/2012/08 HY/2012/08	2019-11-25 2019-11-25 2019-11-25 2019-11-25 2019-11-25	Mid-Flood Mid-Flood Mid-Flood	SR4(N2) SR4(N2) SR4(N2)	Sunny Sunny		16:15	3.1	Surface	1	2	24.6	7.7	33.9	7.2	4.3	4.6
TMCLKL TMCLKL TMCLKL TMCLKL TMCLKL TMCLKL TMCLKL TMCLKL TMCLKL	HY/2012/08 HY/2012/08 HY/2012/08 HY/2012/08 HY/2012/08 HY/2012/08	2019-11-25 2019-11-25 2019-11-25 2019-11-25 2019-11-25	Mid-Flood Mid-Flood	SR4(N2) SR4(N2)	Sunny	₁ Ouii ii		3.1	Middle	2	1						
TMCLKL TMCLKL TMCLKL TMCLKL TMCLKL TMCLKL TMCLKL TMCLKL	HY/2012/08 HY/2012/08 HY/2012/08 HY/2012/08 HY/2012/08	2019-11-25 2019-11-25 2019-11-25	Mid-Flood			Calm	16:15	3.1	Middle	2	2		1				
TMCLKL TMCLKL TMCLKL TMCLKL TMCLKL TMCLKL	HY/2012/08 HY/2012/08 HY/2012/08 HY/2012/08	2019-11-25 2019-11-25		OD 4/NO)	Sunny	Calm	_	3.1	Bottom	3	1	24.5	7.7	34	7.2	4.7	6.7
TMCLKL TMCLKL TMCLKL TMCLKL TMCLKL	HY/2012/08 HY/2012/08 HY/2012/08	2019-11-25		SR4(N2)	Sunny	Calm		3.1	Bottom	3	2	24.6	7.7	33.9	7.2	4.2	5.7
TMCLKL TMCLKL TMCLKL TMCLKL TMCLKL	HY/2012/08 HY/2012/08		Mid-Flood	IS8(N)	Sunny	Calm	16:08	3.9	Surface	1	1	24.6	7.7	34	7.1	5.5	4.1
TMCLKL TMCLKL TMCLKL TMCLKL	HY/2012/08	2019-11-25	Mid-Flood	IS8(N)	Sunny	Calm	16:08	3.9	Surface	1	2	24.7	7.7	34	7.1	5.2	5.1
TMCLKL TMCLKL TMCLKL			Mid-Flood	IS8(N)	Sunny	Calm	16:08	3.9	Middle	2	1						
TMCLKL	HY/2012/08	2019-11-25	Mid-Flood	IS8(N)	Sunny	Calm	16:08	3.9	Middle	2	2						
		2019-11-25	Mid-Flood	IS8(N)	Sunny	Calm	16:08	3.9	Bottom	3	1	24.5	7.7	34	7.1	7.5	5
	HY/2012/08	2019-11-25	Mid-Flood	IS8(N)	Sunny	Calm	16:08	3.9	Bottom	3	2	24.5	7.6	34	7.1	6.7	5.9
TMCLKL	HY/2012/08	2019-11-25	Mid-Flood	IS(Mf)9	Sunny	Calm	16:00	3	Surface	1	1	24.9	7.4	34.1	7.5	8	12.5
TMCLKL	HY/2012/08	2019-11-25	Mid-Flood	IS(Mf)9	Sunny	Calm	16:00	3	Surface	1	2	24.9	7.4	34.1	7.5	7.6	11.3
TMCLKL	HY/2012/08	2019-11-25	Mid-Flood	IS(Mf)9	Sunny	Calm	16:00	3	Middle	2	1						
TMCLKL	HY/2012/08	2019-11-25	Mid-Flood	IS(Mf)9	Sunny	Calm	16:00	3	Middle	2	2		L				
TMCLKL	HY/2012/08	2019-11-25	Mid-Flood	IS(Mf)9	Sunny	Calm	16:00	3	Bottom	3	1	24.9	7.4	34.1	7.1	9.8	9.6
TMCLKL	HY/2012/08	2019-11-25	Mid-Flood	IS(Mf)9	Sunny	Calm	16:00	3	Bottom	3	2	24.9	7.4	34.1	7.3	9.5	10.6
TMCLKL	HY/2012/08	2019-11-25	Mid-Flood	IS(Mf)11	Fine	Moderate	17:33	11	Surface	1	1	24.6	8.1	33.7	7.4	4.9	2.7
TMCLKL	HY/2012/08	2019-11-25	Mid-Flood	IS(Mf)11	Fine	Moderate	17:33	11	Surface	1	2	24.6	8.1	33.7	7.4	4.6	3.7
TMCLKL	HY/2012/08	2019-11-25	Mid-Flood	IS(Mf)11	Fine	Moderate		11	Middle	2	1	24.6	8.1	33.7	7.4	7.2	3.5
TMCLKL	HY/2012/08	2019-11-25	Mid-Flood	IS(Mf)11	Fine	Moderate	17:33	11	Middle	2	2	24.6	8.1	33.7	7.4	6.5	3.1
TMCLKL	HY/2012/08	2019-11-25	Mid-Flood	IS(Mf)11	Fine	Moderate	17:33	11	Bottom	3	1	24.6	8.1	33.7	7.4	7.9	3.6
TMCLKL	HY/2012/08	2019-11-25	Mid-Flood	IS(Mf)11	Fine	Moderate	17:33	11	Bottom	3	2	24.6	8.1	33.7	7.3	7.8	3.8
TMCLKL	HY/2012/08	2019-11-25	Mid-Flood	SR7	Fine	Moderate	17:42	4	Surface	1	1	24.5	8	33.9	7.1	5.4	3.9
TMCLKL	HY/2012/08	2019-11-25	Mid-Flood	SR7	Fine	Moderate	17:42	4	Surface	1	2	24.5	8	33.9	7.2	5.6	2.9
TMCLKL	HY/2012/08	2019-11-25	Mid-Flood	SR7	Fine	Moderate	17:42	4	Middle	2	1						
TMCLKL	HY/2012/08	2019-11-25	Mid-Flood	SR7	Fine	Moderate	17:42	4	Middle	2	2						
TMCLKL	HY/2012/08	2019-11-25	Mid-Flood	SR7	Fine	Moderate	17:42	4	Bottom	3	1	24.5	8	33.9	7.2	4.9	3.1
TMCLKL	HY/2012/08	2019-11-25	Mid-Flood	SR7	Fine	Moderate	17:42	4	Bottom	3	2	24.5	8	33.9	7.2	5.1	3.2
TMCLKL	HY/2012/08	2019-11-25	Mid-Flood	IS17	Sunny	Moderate	16:34	9.8	Surface	1	1	24.5	8.3	33.7	7.3	3.1	8.7
TMCLKL	HY/2012/08	2019-11-25	Mid-Flood	IS17	Sunny	Moderate	16:34	9.8	Surface	1	2	24.5	8.3	33.6	7.3	2.8	7.7
TMCLKL	HY/2012/08	2019-11-25	Mid-Flood	IS17	Sunny	Moderate	16:34	9.8	Middle	2	1	24.5	8.3	33.7	7.2	5.6	8.5
TMCLKL	HY/2012/08	2019-11-25	Mid-Flood	IS17	Sunny	Moderate	16:34	9.8	Middle	2	2	24.5	8.3	33.7	7.2	5.1	8.3
TMCLKL	HY/2012/08	2019-11-25	Mid-Flood	IS17	Sunny	Moderate	16:34	9.8	Bottom	3	1	24.5	8.3	34	7.1	7.9	11.4
TMCLKL	HY/2012/08	2019-11-25	Mid-Flood	IS17	Sunny	Moderate	16:34	9.8	Bottom	3	2	24.5	8.3	34	7.1	7.9	12.4
TMCLKL	HY/2012/08	2019-11-27	Mid-Ebb	CS(Mf)5	Fine	Moderate	14:11	12.9	Surface	1	1	24.3	8	32.9	6.7	3.7	5.2
TMCLKL	HY/2012/08	2019-11-27	Mid-Ebb	CS(Mf)5	Fine	Moderate	14:11	12.9	Surface	1	2	24.3	8.1	31.9	6.7	3.9	6.1
TMCLKL	HY/2012/08	2019-11-27	Mid-Ebb	CS(Mf)5	Fine	Moderate	14:11	12.9	Middle	2	1	24.2	8	32.9	6.5	3.9	5.4
TMCLKL	HY/2012/08	2019-11-27	Mid-Ebb	CS(Mf)5	Fine	Moderate	14:11	12.9	Middle	2	2	24.1	8	31.9	6.6	3.9	5.4
TMCLKL	HY/2012/08	2019-11-27	Mid-Ebb	CS(Mf)5	Fine	Moderate	14:11	12.9	Bottom	3	1	24.3	8	33.3	6.1	10.1	9.7
TMCLKL	HY/2012/08	2019-11-27	Mid-Ebb	CS(Mf)5	Fine	Moderate	14:11	12.9	Bottom	3	2	24.2	8	32.3	6.2	10.2	8.8
TMCLKL	HY/2012/08	2019-11-27	Mid-Ebb		Fine	Moderate		7.5	Surface	1	1	24.2	8.1	30.9	7	3.5	6.3
TMCLKL	HY/2012/08	2019-11-27	Mid-Ebb		Fine	Moderate	_	7.5	Surface	1	2	24.3	8	31.8	7	3.8	5.1
TMCLKL	HY/2012/08	2019-11-27	Mid-Ebb		Fine	Moderate		7.5	Middle	2	1	24	8.1	31.7	6.8	10.8	4.7
TMCLKL	HY/2012/08	2019-11-27	Mid-Ebb		Fine	Moderate	13:24	7.5	Middle	2	2	24	8	32.7	6.8	10.6	4.5
TMCLKL	HY/2012/08	2019-11-27	Mid-Ebb		Fine	Moderate	13:24	7.5	Bottom	3	1	24	8	31.9	6.8	14.2	4
TMCLKL	HY/2012/08	2019-11-27	Mid-Ebb		Fine	Moderate	13:24	7.5	Bottom	3	2	24	8	32.9	6.7	14.6	4.9
TMCLKL	HY/2012/08	2019-11-27	Mid-Ebb	IS(Mf)16	Fine	Moderate	12:33	5.7	Surface	1	1	24.3	8	32.9	6.9	4.4	7.5
TMCLKL	HY/2012/08	2019-11-27	Mid-Ebb	IS(Mf)16	Fine	Moderate	12:33	5.7	Surface	1	2	24.2	8.1	31.9	7	4.6	6.6
TMCLKL	HY/2012/08	2019-11-27	Mid-Ebb	IS(Mf)16	Fine	Moderate	12:33	5.7	Middle	2	1						
TMCLKL	HY/2012/08	2019-11-27	Mid-Ebb	IS(Mf)16	Fine	Moderate	12:33	5.7	Middle	2	2						
TMCLKL	HY/2012/08	2019-11-27	Mid-Ebb	IS(Mf)16	Fine	Moderate	12:33	5.7	Bottom	3	1	24	8	33	6.6	6.5	7
TMCLKL	HY/2012/08	2019-11-27	Mid-Ebb	IS(Mf)16	Fine	Moderate	12:33	5.7	Bottom	3	2	24	8	32	6.6	6.7	6.3
TMCLKL	HY/2012/08	2019-11-27	Mid-Ebb	SR4a	Fine	Calm	12:21	4.6	Surface	1	1	24.1	8	32.9	6.7	5.9	7
	HY/2012/08		Mid-Ebb		Fine	Calm	12:21		Surface	1	2	24	8	31.9	6.7	5.9	6.8
	HY/2012/08	2019-11-27	Mid-Ebb	_	Fine	Calm		4.6	Middle	2	1						
TMCLKL	HY/2012/08	2019-11-27	Mid-Ebb	SR4a	Fine	Calm	12:21	4.6	Middle	2	2						

Project	Contract	Date	Tide	Stat	Weather	Sea Condition	Time	Water Depth	Level	Lev_Cod	Replicate	Temp(°C)	рН	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)
TMCLKL	HY/2012/08	2019-11-27	Mid-Ebb	SR4a	Fine	Calm	12:21	4.6	Bottom	3	1	24	8	32.9	6.6	7.4	8.1
TMCLKL	HY/2012/08	2019-11-27	Mid-Ebb	SR4a	Fine	Calm	-	4.6	Bottom	3	2	24	8	32	6.7	7.3	9.1
TMCLKL	HY/2012/08	2019-11-27	Mid-Ebb	SR4(N2)	Fine	Calm		4.2	Surface	1	1	24	8	32.8	6.4	9.4	20.1
TMCLKL	HY/2012/08	2019-11-27	Mid-Ebb	SR4(N2)	Fine	Calm		4.2	Surface	1	2	24	8.1	31.9	6.5	9.5	17.8
TMCLKL	HY/2012/08	2019-11-27	Mid-Ebb	SR4(N2)	Fine	Calm	12:14	4.2	Middle	2	1						
TMCLKL	HY/2012/08	2019-11-27	Mid-Ebb	SR4(N2)	Fine	Calm		4.2	Middle	2	2						
TMCLKL	HY/2012/08	2019-11-27	Mid-Ebb	SR4(N2)	Fine	Calm	12:14	4.2	Bottom	3	1	24	8	32.8	6.4	10.9	19.3
TMCLKL	HY/2012/08	2019-11-27	Mid-Ebb	SR4(N2)	Fine	Calm		4.2	Bottom	3	2	24	8.1	31.9	6.5	10.7	19.5
TMCLKL	HY/2012/08	2019-11-27	Mid-Ebb	IS8(N)	Fine	Calm	12:06	4	Surface	1	1	24	8	32.8	6.7	7.9	12.2
TMCLKL	HY/2012/08	2019-11-27	Mid-Ebb	IS8(N)	Fine	Calm	12:06	4	Surface	1	2	23.9	8.1	31.8	6.8	7.8	11.7
TMCLKL	HY/2012/08	2019-11-27	Mid-Ebb	IS8(N)	Fine	Calm	12:06	4	Middle	2	1						
TMCLKL	HY/2012/08	2019-11-27	Mid-Ebb	IS8(N)	Fine	Calm	12:06	4	Middle	2	2						
TMCLKL	HY/2012/08	2019-11-27	Mid-Ebb	IS8(N)	Fine	Calm	12:06	4	Bottom	3	1	23.9	8	32.8	6.7	11	9.8
TMCLKL	HY/2012/08	2019-11-27	Mid-Ebb	IS8(N)	Fine	Calm	12:06	4	Bottom	3	2	23.9	8.1	31.8	6.7	11.2	10.3
TMCLKL	HY/2012/08	2019-11-27	Mid-Ebb	IS(Mf)9	Fine	Calm		3.6	Surface	1	1	24.1	8	32.9	6.6	8.1	9.1
TMCLKL	HY/2012/08	2019-11-27	Mid-Ebb	IS(Mf)9	Fine	Calm		3.6	Surface	1	2	24.1	8.1	31.9	6.7	8.3	9.6
TMCLKL	HY/2012/08	2019-11-27	Mid-Ebb	IS(Mf)9	Fine	Calm	11:56	3.6	Middle	2	1						
TMCLKL	HY/2012/08	2019-11-27	Mid-Ebb	IS(Mf)9	Fine	Calm		3.6	Middle	2	2						
TMCLKL	HY/2012/08	2019-11-27	Mid-Ebb	IS(Mf)9	Fine	Calm		3.6	Bottom	3	1	24	8	32.9	6.6	8.5	7.1
TMCLKL	HY/2012/08	2019-11-27	Mid-Ebb	IS(Mf)9	Fine	Calm		3.6	Bottom	3	2	24	8	31.9	6.7	8.5	8.1
TMCLKL	HY/2012/08	2019-11-27	Mid-Ebb	IS(Mf)11	Fine	Moderate	12:51	11.4	Surface	1	1	24.2	8.1	31.8	7	4.4	5.6
TMCLKL	HY/2012/08	2019-11-27	Mid-Ebb	IS(Mf)11	Fine	Moderate	12:51	11.4	Surface	1	2	24.2	8	32.8	6.9	4.2	5.9
TMCLKL	HY/2012/08	2019-11-27	Mid-Ebb	IS(Mf)11	Fine	Moderate		11.4	Middle	2	1	24	8.1	31.8	6.7	5.3	6.1
TMCLKL	HY/2012/08	2019-11-27	Mid-Ebb	IS(Mf)11	Fine	Moderate		11.4	Middle	2	2	24	8	32.8	6.6	5.2	11.9
TMCLKL	HY/2012/08	2019-11-27	Mid-Ebb	IS(Mf)11	Fine	Moderate		11.4	Bottom	3	1	24	8.1	31.9	6.7	8	12.2
TMCLKL	HY/2012/08	2019-11-27	Mid-Ebb	IS(Mf)11	Fine	Moderate	12:51	11.4	Bottom	3	2	24	8	32.8	6.6	8	13.4
TMCLKL	HY/2012/08	2019-11-27	Mid-Ebb	SR7	Fine	Moderate	13:50	4.2	Surface	1	1	24.2	8.1	31.8	6.8	5.2	8.9
TMCLKL	HY/2012/08	2019-11-27	Mid-Ebb	SR7	Fine	Moderate			Surface	1	2	24.2	8	32.7	6.7	5.2	8.7
TMCLKL	HY/2012/08	2019-11-27	Mid-Ebb	SR7	Fine	Moderate	13:50	4.2	Middle	2	1		†				
TMCLKL	HY/2012/08	2019-11-27	Mid-Ebb	SR7	Fine	Moderate	13:50	4.2	Middle	2	2		1				
TMCLKL	HY/2012/08	2019-11-27	Mid-Ebb	SR7	Fine	Moderate		4.2	Bottom	3	1	24.2	8.1	31.8	6.8	5.7	11.6
TMCLKL	HY/2012/08	2019-11-27	Mid-Ebb	SR7	Fine	Moderate		4.2	Bottom	3	2	24.2	8	32.7	6.7	5.6	10.7
TMCLKL	HY/2012/08	2019-11-27	Mid-Ebb	IS17	Fine	Moderate		9.3	Surface	1	1	24.1	8	32.8	6.7	7.1	14
TMCLKL	HY/2012/08	2019-11-27	Mid-Ebb	IS17	Fine	Moderate		9.3	Surface	1	2	24	8.1	31.9	6.7	7.2	14.4
TMCLKL	HY/2012/08	2019-11-27	Mid-Ebb	IS17	Fine	Moderate		9.3	Middle	2	1	24	8	32.8	6.7	8.6	12.5
TMCLKL	HY/2012/08	2019-11-27	Mid-Ebb	IS17	Fine	Moderate		9.3	Middle	2	2	24	8.1	31.8	6.7	8.6	11.3
TMCLKL	HY/2012/08	2019-11-27	Mid-Ebb	IS17	Fine	Moderate		9.3	Bottom	3	1	24	8	32.8	6.6	10.2	12.5
TMCLKL	HY/2012/08	2019-11-27	Mid-Ebb	IS17	Fine	Moderate		9.3	Bottom	3	2	24	8	31.9	6.7	10.3	11.3
TMCLKL	HY/2012/08	2019-11-27	Mid-Flood	CS(Mf)5	Fine	Moderate	07:37	12.5	Surface	1	1	24.1	7.8	33	6.5	5.5	7.3
TMCLKL	HY/2012/08	2019-11-27	Mid-Flood	CS(Mf)5	Fine	Moderate	07:37	12.5	Surface	1	2	24.1	8	32	6.6	5.6	6.9
TMCLKL	HY/2012/08	2019-11-27	Mid-Flood	CS(Mf)5	Fine	Moderate	07:37	12.5	Middle	2	1	24.1	7.8	33	6.5	11.5	6.2
TMCLKL	HY/2012/08	2019-11-27	Mid-Flood	CS(Mf)5	Fine	Moderate	07:37	12.5	Middle	2	2	24.1	8	32	6.5	10.2	14.9
TMCLKL	HY/2012/08	2019-11-27	Mid-Flood	CS(Mf)5	Fine	Moderate	07:37	12.5	Bottom	3	<u> -</u>	24.1	7.8	33.1	6.5	13.4	7.1
TMCLKL	HY/2012/08	2019-11-27	Mid-Flood	CS(Mf)5	Fine	Moderate	07:37	12.5	Bottom	3	2	24.1	8	32	6.6	13.8	8.1
TMCLKL	HY/2012/08	2019-11-27	Mid-Flood		Fine	Moderate	08:29	7.4	Surface	1	1	23.9	8	32.2	6.7	6.3	10
TMCLKL	HY/2012/08	2019-11-27	Mid-Flood	· / · /	Fine	Moderate		7.4	Surface	1	2	23.9	8	31.2	6.7	6.4	10.9
TMCLKL	HY/2012/08	2019-11-27	Mid-Flood		Fine	Moderate		7.4	Middle	2	1	23.9	8	32.3	6.6	6.9	11.3
TMCLKL	HY/2012/08	2019-11-27	Mid-Flood		Fine	Moderate		7.4	Middle	2	2	23.9	8	31.3	6.7	6.5	11.1
TMCLKL	HY/2012/08	2019-11-27	Mid-Flood	_ ` / ` /	Fine	Moderate	08:29	7.4	Bottom	3	11	23.9	8	32.3	6.6	6.8	8.9
TMCLKL	HY/2012/08	2019-11-27	Mid-Flood	/ _ /	Fine	Moderate		7.4	Bottom	3	2	23.9	8	31.3	6.7	6.6	9.1
TMCLKL	HY/2012/08	2019-11-27	Mid-Flood	IS(Mf)16	Fine	Moderate		5.7	Surface	11	<u> -</u> 1	23.9	8	32.9	6.6	10.1	13.8
TMCLKL	HY/2012/08	2019-11-27	Mid-Flood	IS(Mf)16	Fine	Moderate		5.7	Surface	1	2	23.9	8	31.9	6.6	10.2	12.5
TMCLKL	HY/2012/08	2019-11-27	Mid-Flood	IS(Mf)16	Fine	Moderate		5.7	Middle	2	 -		†	1	15.5	1.5.2	1
TMCLKL	HY/2012/08	2019-11-27	Mid-Flood	IS(Mf)16	Fine	Moderate		5.7	Middle	2	2		+			1	
TMCLKL	HY/2012/08	2019-11-27	Mid-Flood	IS(Mf)16	Fine	Moderate		5.7	Bottom	3	-	23.9	8	32.9	6.6	10.4	18.6
TMCLKL	HY/2012/08	2019-11-27	Mid-Flood	IS(Mf)16	Fine	Moderate		5.7	Bottom	3	2	23.9	8	32	6.6	10.3	17.6
TMCLKL	HY/2012/08	2019-11-27	Mid-Flood	SR4a	Fine	Moderate		4.5	Surface	11	-	23.9	8	32.9	6.6	8.3	15.1
TMCLKL	HY/2012/08	2019-11-27	Mid-Flood	SR4a	Fine	Moderate	09:25	4.5	Surface	11	2	23.8	8.1	32	6.7	8.4	13.2
	HY/2012/08		Mid-Flood	SR4a	Fine	Moderate	09:25		Middle	2	1	20.0	15.1	<u> </u>	0.7		10.2
TMCLKL	HY/2012/08	2019-11-27	Mid-Flood	SR4a	Fine	Moderate	_	4.5	Middle	2	2	+	+				
	HY/2012/08	2019-11-27	Mid-Flood	SR4a	Fine	Moderate		4.5		3	1	23.8	8	32.9	6.8	13.1	14
LIMOLIKE	111/2012/00	LU10-11-21	Imia-i ioou	ΙΟΙΝΤα	li iiie	Innonciale	00.20	ل - .ن		ار	11	120.0	lo lo	المحال	10.0	110.1	

Project	Contract	Date	Tide	Stat	Weather	Sea Condition	Time	Water Depth	Level	Lev_Cod	Replicate	Temp(°C)	рН	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)
TMCLKL	HY/2012/08	2019-11-27	Mid-Flood	SR4a	Fine	Moderate	09:25	4.5	Bottom	3	2	23.8	8.1	32	6.8	13.1	13
TMCLKL	HY/2012/08	2019-11-27	Mid-Flood	SR4(N2)	Fine	Calm	09:30	3.9	Surface	1	1	23.9	8	32.9	6.6	8.2	12.8
TMCLKL	HY/2012/08	2019-11-27	Mid-Flood	SR4(N2)	Fine	Calm	09:30	3.9	Surface	1	2	23.9	8.1	32	6.6	8.1	13.7
TMCLKL	HY/2012/08	2019-11-27	Mid-Flood	SR4(N2)	Fine	Calm	09:30	3.9	Middle	2	1						
TMCLKL	HY/2012/08	2019-11-27	Mid-Flood	SR4(N2)	Fine	Calm	_	3.9	Middle	2	2						
TMCLKL	HY/2012/08	2019-11-27	Mid-Flood	SR4(N2)	Fine	Calm	09:30	3.9	Bottom	3	1	23.9	8	32.9	6.6	8.6	13.4
TMCLKL	HY/2012/08	2019-11-27	Mid-Flood	SR4(N2)	Fine	Calm	09:30	3.9	Bottom	3	2	23.9	8.1	32	6.6	8.9	13.8
TMCLKL	HY/2012/08	2019-11-27	Mid-Flood	IS8(N)	Fine	Calm	09:34	3.7	Surface	1	1	23.9	8	32.9	6.5	8.7	16.3
TMCLKL	HY/2012/08	2019-11-27	Mid-Flood	IS8(N)	Fine	Calm		3.7	Surface	1	2	23.8	8	32	6.5	8.6	14.4
TMCLKL	HY/2012/08	2019-11-27	Mid-Flood	IS8(N)	Fine	Calm	09:34	3.7	Middle	2	1						
TMCLKL	HY/2012/08	2019-11-27	Mid-Flood	IS8(N)	Fine	Calm		3.7	Middle	2	2						
TMCLKL	HY/2012/08	2019-11-27	Mid-Flood	IS8(N)	Fine	Calm	09:34	3.7	Bottom	3	1	23.8	8	32.9	6.5	8.8	23.1
TMCLKL	HY/2012/08	2019-11-27	Mid-Flood	IS8(N)	Fine	Calm	09:34	3.7	Bottom	3	2	23.8	8	32	6.5	8.7	20
TMCLKL	HY/2012/08	2019-11-27	Mid-Flood	IS(Mf)9	Fine	Calm	09:39	3.5	Surface	1	1	23.9	8	32.9	6.6	8	15.1
TMCLKL	HY/2012/08	2019-11-27	Mid-Flood	IS(Mf)9	Fine	Calm	09:39	3.5	Surface	1	2	23.9	8	32	6.6	7.8	14
TMCLKL	HY/2012/08	2019-11-27	Mid-Flood	IS(Mf)9	Fine	Calm	09:39	3.5	Middle	2	1						
TMCLKL	HY/2012/08	2019-11-27	Mid-Flood	IS(Mf)9	Fine	Calm	09:39	3.5	Middle	2	2						
TMCLKL	HY/2012/08	2019-11-27	Mid-Flood	IS(Mf)9	Fine	Calm	09:39	3.5	Bottom	[3	<u> 1</u>	23.9	8	32.9	6.5	8.5	10.9
TMCLKL	HY/2012/08	2019-11-27	Mid-Flood	IS(Mf)9	Fine	Calm	09:39	3.5	Bottom	[3	2	23.8	8	32	6.6	8.4	11.9
TMCLKL	HY/2012/08	2019-11-27	Mid-Flood	IS(Mf)11	Fine	Moderate	08:59	11.1	Surface	[1	[1	23.9	8	32.8	6.7	[6	8.7
TMCLKL	HY/2012/08	2019-11-27	Mid-Flood	IS(Mf)11	Fine	Moderate	08:59	11.1	Surface	[1	2	23.9	8	31.9	6.7	6.1	8.6
TMCLKL	HY/2012/08	2019-11-27	Mid-Flood	IS(Mf)11	Fine	Moderate	08:59	11.1	Middle	2	1	23.9	8	32.8	6.6	6.3	11.1
TMCLKL	HY/2012/08	2019-11-27	Mid-Flood	IS(Mf)11	Fine	Moderate	08:59	11.1	Middle	2	2	23.9	8	31.9	6.7	6.3	12.3
TMCLKL	HY/2012/08	2019-11-27	Mid-Flood	IS(Mf)11	Fine	Moderate	08:59	11.1	Bottom	3	1	23.9	8	32.8	6.6	6.2	12.8
TMCLKL	HY/2012/08	2019-11-27	Mid-Flood	IS(Mf)11	Fine	Moderate	08:59	11.1	Bottom	3	2	23.9	8	31.9	6.7	6.2	11.6
TMCLKL	HY/2012/08	2019-11-27	Mid-Flood	SR7	Fine	Moderate	08:03	4	Surface	1	1	24	8	32.7	6.6	8.3	10.7
TMCLKL	HY/2012/08	2019-11-27	Mid-Flood	SR7	Fine	Moderate	08:03	4	Surface	1	2	24	8	31.7	6.7	8.6	11.5
TMCLKL	HY/2012/08	2019-11-27	Mid-Flood	SR7	Fine	Moderate	08:03	4	Middle	2	1						
TMCLKL	HY/2012/08	2019-11-27	Mid-Flood	SR7	Fine	Moderate	08:03	4	Middle	2	2					1.2.	
TMCLKL	HY/2012/08	2019-11-27	Mid-Flood	SR7	Fine	Moderate	08:03	4	Bottom	3	1	24	8	32.7	6.6	10.4	12.3
TMCLKL	HY/2012/08	2019-11-27	Mid-Flood	SR7	Fine	Moderate	08:03	4	Bottom	3	2	24	8	31.7	6.7	10.3	11.6
TMCLKL	HY/2012/08	2019-11-27	Mid-Flood	IS17	Fine	Moderate		9.2	Surface	1	1	24	8	32.8	6.6	8	11
TMCLKL	HY/2012/08	2019-11-27	Mid-Flood	IS17	Fine	Moderate	09:09	9.2	Surface	1	2	24	8	31.8	6.7	8	10.7
TMCLKL	HY/2012/08	2019-11-27	Mid-Flood	IS17	Fine	Moderate	09:09	9.2	Middle	2	1	24	8	32.8	6.6	8.8	11.2
TMCLKL	HY/2012/08	2019-11-27	Mid-Flood	IS17	Fine	Moderate	09:09	9.2	Middle	2	2	24	8	31.8	6.7	8.8	11.8
TMCLKL	HY/2012/08	2019-11-27	Mid-Flood	IS17	Fine	Moderate	09:09	9.2	Bottom	3	1	24	8	32.8	6.6	10.1	8.8
TMCLKL	HY/2012/08	2019-11-27	Mid-Flood	IS17	Fine	Moderate	09:09	9.2	Bottom	3	2	24	8	31.8	6.7	10.3	9.8
TMCLKL	HY/2012/08	2019-11-29	Mid-Ebb	CS(Mf)5	Sunny	Rough	15:29	14.8	Surface	11	1	24	8	32.8	6.7	3.5	6
TMCLKL	HY/2012/08	2019-11-29	Mid-Ebb	CS(Mf)5	Sunny	Rough	15:29	14.8	Surface	11	2	24.1	8	32.8	6.8	3.4	/
TMCLKL	HY/2012/08	2019-11-29	Mid-Ebb	CS(Mf)5	Sunny	Rough	15:29	14.8	Middle	2	1	23.9	8	33.6	6.2	3.9	6.5
TMCLKL	HY/2012/08	2019-11-29	Mid-Ebb	CS(Mf)5	Sunny	Rough	15:29	14.8	Middle	2	2	23.9	8	33.6	6.2	3.8	7.4
TMCLKL	HY/2012/08	2019-11-29	Mid-Ebb	CS(Mf)5	Sunny	Rough	15:29	14.8	Bottom	3	17	23.9	7.9	33.6	6.3	6.4	10.9
TMCLKL	HY/2012/08	2019-11-29	Mid-Ebb	CS(Mf)5	Sunny	Rough	15:29	14.8	Bottom	3	2	23.9	7.9	33.6	6.3	6.4	11.5
TMCLKL	HY/2012/08	2019-11-29	Mid-Ebb	CS(Mf)3(N)	Sunny	Rough	14:44	7.1	Surface	T Ia	17	23.6	8	32	/	5.8	10
TMCLKL	HY/2012/08	2019-11-29	Mid-Ebb		Sunny	Rough		7.1	Surface	11	4	23.6	8	32	/	5.7	10.3
TMCLKL	HY/2012/08	2019-11-29	Mid-Ebb		Sunny	Rough	_	7.1	Middle	2	17	23.6	8	32.1	/	6.6	10.2
TMCLKL	HY/2012/08	2019-11-29	Mid-Ebb	CS(Mf)3(N)	Sunny	Rough		7.1	Middle	2	2	23.6	8	32.1	7.4	6.5	10.7
TMCLKL	HY/2012/08	2019-11-29	Mid-Ebb		Sunny	Rough	_	7.1	Bottom	ا اه	12	23.4	8	32.2	7.1	4.9	0.1
TMCLKL	HY/2012/08	2019-11-29	Mid-Ebb		Sunny	Rough	14:44	7.1	Bottom	3	4	23.4	8	32.2	16.0	4.9	8.6
TMCLKL	HY/2012/08	2019-11-29	Mid-Ebb	IS(Mf)16	Sunny	Rough		4.9	Surface	T Ia	17	23.6	8	32.5	6.9	6.9	11.8
TMCLKL	HY/2012/08	2019-11-29	Mid-Ebb	IS(Mf)16	Sunny	Rough	13:49	4.9	Surface	11	4	23.6	8	32.5	6.9	6.9	12
TMCLKL	HY/2012/08	2019-11-29	Mid-Ebb	IS(Mf)16	Sunny	Rough	13:49	4.9	Middle	2	12	+	+				+
TMCLKL	HY/2012/08	2019-11-29	Mid-Ebb	IS(Mf)16	Sunny	Rough	13:49	4.9	Middle	2		100.6	0	22.5	7	0.2	10.4
TMCLKL	HY/2012/08	2019-11-29	Mid-Ebb	IS(Mf)16	Sunny	Rough	13:49	4.9	Bottom	3 2	12	23.6	8	32.5	7	9.3	9.4
TMCLKL	HY/2012/08	2019-11-29	Mid-Ebb	IS(Mf)16	Sunny	Rough	13:49	4.9	Bottom	3 4		23.6	8	32.5	7	9.4	8.8
TMCLKL	HY/2012/08	2019-11-29	Mid-Ebb	SR4a	Sunny	Rough	13:37	3.7	Surface	11	12	23.9	8	32.5	7	4.9	12.3
TMCLKL	HY/2012/08	2019-11-29	Mid-Ebb	SR4a	Sunny	Rough		3.7	Surface	11		23.9	8	32.5	/	4.8	11.2
TMCLKL	HY/2012/08	2019-11-29	Mid-Ebb	SR4a	Sunny	Rough	13:37	3.7	Middle	2	12	+	+	<u> </u>			+
	HY/2012/08		Mid-Ebb	SR4a	Sunny	Rough	13:37		iviluale	2		100.4	0	22.5		100	1111
	HY/2012/08	2019-11-29	Mid-Ebb	SR4a	Sunny	Rough		3.7	Bottom	<u>၂</u>	12	23.4	8	32.5	16.0	8.2	14.1
TMCLKL	HY/2012/08	2019-11-29	Mid-Ebb	SR4a	Sunny	Rough	13:37	J3.1	Bottom	၂၁	2	23.4	8	32.5	6.9	8.2	13.5

Duoiset	Comtract	Data	Tido	Ctot	M/a ath an	Sea	T:	Water	Laval	Law Cad	Doulingto	Tamm (%C)		Calinita (mmt)	DO(m m/L)	T	CC(m m/l)
Project	Contract	Date	Tide	Stat	Weather	Condition	Time	Depth	Level	Lev_Cod	Replicate	Temp(°C)	рН	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)
TMCLKL	HY/2012/08	2019-11-29	Mid-Ebb	SR4(N2)	Sunny	Rough	13:31	4.2	Surface	1	1	23.8	8	32.5	6.9	2.7	15.7
TMCLKL	HY/2012/08	2019-11-29	Mid-Ebb	SR4(N2)	Sunny	Rough	13:31	4.2	Surface	1	2	23.8	8	32.5	6.9	2.6	17.3
TMCLKL	HY/2012/08	2019-11-29	Mid-Ebb	SR4(N2)	Sunny	Rough	13:31	4.2	Middle	2	1		<u> </u>				
TMCLKL	HY/2012/08	2019-11-29	Mid-Ebb	SR4(N2)	Sunny	Rough	13:31	4.2	Middle	2	2		_				
TMCLKL	HY/2012/08	2019-11-29	Mid-Ebb	SR4(N2)	Sunny	Rough	13:31	4.2	Bottom	3	1	23.7	8	32.6	7	3.2	14.4
TMCLKL	HY/2012/08	2019-11-29	Mid-Ebb	SR4(N2)	Sunny	Rough	13:31	4.2	Bottom	3	2	23.7	8	32.6	6.9	3.2	13.2
TMCLKL	HY/2012/08	2019-11-29	Mid-Ebb	IS8(N)	Sunny	Rough	13:25	3.6	Surface	1	1	23.9	8	32.5	6.9	6.5	10.8
TMCLKL	HY/2012/08	2019-11-29	Mid-Ebb	IS8(N)	Sunny	Rough	13:25	3.6	Surface	1	2	23.9	8	32.5	6.9	6.5	10.2
TMCLKL TMCLKL	HY/2012/08 HY/2012/08	2019-11-29	Mid-Ebb Mid-Ebb	IS8(N) IS8(N)	Sunny Sunny	Rough	13:25	3.6	Middle Middle	2	12		+		+	+	+
TMCLKL	HY/2012/08	2019-11-29	Mid-Ebb	IS8(N)	Sunny	Rough Rough	13:25 13:25	3.6	Bottom	2	1	23.6	8	32.6	6.9	7.5	11.7
TMCLKL	HY/2012/08	2019-11-29	Mid-Ebb	IS8(N)	Sunny	Rough	13:25	3.6	Bottom	3	2	23.6	8	32.6	6.9	7.4	13.2
TMCLKL	HY/2012/08	2019-11-29	Mid-Ebb	IS(Mf)9	Sunny	Rough	13:11	3.8	Surface	1	1	23.9	8	32.5	7	6.5	14
TMCLKL	HY/2012/08	2019-11-29	Mid-Ebb	IS(Mf)9	Sunny	Rough	13:11	3.8	Surface	1	2	23.9	8	32.5	7	6.4	13
TMCLKL	HY/2012/08	2019-11-29	Mid-Ebb	IS(Mf)9	Sunny	Rough		3.8	Middle	2	1	20.0	 	02.0	 	0.4	
TMCLKL	HY/2012/08	2019-11-29	Mid-Ebb	IS(Mf)9	Sunny	Rough	_	3.8	Middle	2	2						
TMCLKL	HY/2012/08	2019-11-29	Mid-Ebb	IS(Mf)9	Sunny	Rough		3.8	Bottom	3	1	23.7	8	32.6	7	7.4	16
TMCLKL	HY/2012/08	2019-11-29	Mid-Ebb	IS(Mf)9	Sunny	Rough	13:11	3.8	Bottom	3	2	23.6	8	32.6	7	7.3	16.9
TMCLKL	HY/2012/08	2019-11-29	Mid-Ebb	IS(Mf)11	Sunny	Rough	14:14	10.9	Surface	1	1	23.6	8	32.5	6.8	4.6	8.5
TMCLKL	HY/2012/08	2019-11-29	Mid-Ebb	IS(Mf)11	Sunny	Rough	14:14	10.9	Surface	1	2	23.6	8	32.5	6.8	4.6	7.5
TMCLKL	HY/2012/08	2019-11-29	Mid-Ebb	IS(Mf)11	Sunny	Rough	14:14	10.9	Middle	2	1	23.5	8	32.5	6.6	8.2	6.8
TMCLKL	HY/2012/08	2019-11-29	Mid-Ebb	IS(Mf)11	Sunny	Rough	14:14	10.9	Middle	2	2	23.5	8	32.5	6.6	8.2	6
TMCLKL	HY/2012/08	2019-11-29	Mid-Ebb	IS(Mf)11	Sunny	Rough	14:14	10.9	Bottom	3	1	23.5	8	32.5	6.6	13.1	6.4
TMCLKL	HY/2012/08	2019-11-29	Mid-Ebb	IS(Mf)11	Sunny	Rough	14:14	10.9	Bottom	3	2	23.5	8	32.5	6.6	13.1	7.1
TMCLKL	HY/2012/08	2019-11-29	Mid-Ebb	SR7	Sunny	Rough	15:10	4.4	Surface	1	1	23.9	8	32.8	6.7	4.4	6.7
TMCLKL	HY/2012/08	2019-11-29	Mid-Ebb	SR7	Sunny	Rough	15:10	4.4	Surface	1	2	23.9	8	32.8	6.7	4.4	6.7
TMCLKL	HY/2012/08	2019-11-29	Mid-Ebb	SR7	Sunny	Rough	15:10	4.4	Middle	2	1						
TMCLKL	HY/2012/08	2019-11-29	Mid-Ebb	SR7	Sunny	Rough	15:10	4.4	Middle	2	2						
TMCLKL	HY/2012/08	2019-11-29	Mid-Ebb	SR7	Sunny	Rough	15:10	4.4	Bottom	3	1	23.9	8	33	6.9	5.6	6.9
TMCLKL	HY/2012/08	2019-11-29	Mid-Ebb	SR7	Sunny	Rough	15:10	4.4	Bottom	3	2	23.9	8	33	6.8	5.5	7
TMCLKL	HY/2012/08	2019-11-29	Mid-Ebb	IS17	Sunny	Rough	14:04	11.3	Surface	1	1	23.6	8	32.5	6.8	5.9	9.8
TMCLKL	HY/2012/08	2019-11-29	Mid-Ebb	IS17	Sunny	Rough	14:04	11.3	Surface	1	2	23.6	8	32.5	6.8	5.9	9.5
TMCLKL	HY/2012/08	2019-11-29	Mid-Ebb	IS17	Sunny	Rough		11.3	Middle	2	1	23.6	8	32.5	6.7	8.9	9.5
TMCLKL	HY/2012/08	2019-11-29	Mid-Ebb	IS17	Sunny	Rough	14:04	11.3	Middle	2	2	23.6	8	32.5	6.7	8.9	9.1
TMCLKL	HY/2012/08 HY/2012/08	2019-11-29	Mid-Ebb Mid-Ebb	IS17 IS17	Sunny	Rough	14:04	11.3	Bottom	3	1	23.6	8	32.5 32.5	6.7	9	1.1
TMCLKL TMCLKL	HY/2012/08	2019-11-29	Mid-Flood	CS(Mf)5	Sunny Fine	Rough Rough	14:04 09:02	11.3 14.2	Bottom Surface	1	1	23.6 23.7	7.9	32.8	6.7 6.5	2.1	6.8 4.8
TMCLKL	HY/2012/08	2019-11-29	Mid-Flood	CS(Mf)5	Fine	Rough	09:02	14.2	Surface	1	2	23.7	7.9	32.8	6.5	2.1	5.8
TMCLKL	HY/2012/08	2019-11-29	Mid-Flood	CS(Mf)5	Fine	Rough	09:02	14.2	Middle	2	1	23.7	7.9	32.8	6.5	3.6	6.4
TMCLKL	HY/2012/08	2019-11-29	Mid-Flood	CS(Mf)5	Fine	Rough	09:02	14.2	Middle	2	2	23.7	7.9	32.8	6.5	3.5	6.6
TMCLKL	HY/2012/08	2019-11-29	Mid-Flood	CS(Mf)5	Fine	Rough	09:02	14.2	Bottom	3	1	23.7	7.9	32.8	6.4	4.8	7.8
TMCLKL	HY/2012/08	2019-11-29	Mid-Flood	CS(Mf)5	Fine	Rough	09:02	14.2	Bottom	3	2	23.7	7.9	32.8	6.4	4.8	7.1
TMCLKL	HY/2012/08	2019-11-29	Mid-Flood	` '	Fine	Rough	09:51	7.2	Surface	1	1	23.2	8	32.2	6.9	3.2	14
TMCLKL	HY/2012/08	2019-11-29	Mid-Flood	\ / \ /	Fine	Rough		7.2	Surface	1	2	23.2	8	32.2	6.9	3.2	12.2
TMCLKL	HY/2012/08	2019-11-29	Mid-Flood	CS(Mf)3(N)	Fine	Rough		7.2	Middle	2	1	23.3	8	32.2	6.9	4.1	12.8
TMCLKL	HY/2012/08	2019-11-29	Mid-Flood		Fine	Rough		7.2	Middle	2	2	23.2	8	32.2	6.9	4.1	13.3
TMCLKL	HY/2012/08	2019-11-29	Mid-Flood	CS(Mf)3(N)	Fine	Rough		7.2	Bottom	3	1	23.3	8	32.2	7	5.2	11.7
TMCLKL	HY/2012/08	2019-11-29	Mid-Flood		Fine	Rough	09:51	7.2	Bottom	3	2	23.3	8	32.2	7	5.2	11
TMCLKL	HY/2012/08	2019-11-29	Mid-Flood	IS(Mf)16	Fine	Rough		5.5	Surface	1	1	23.6	8	32.5	6.7	4.9	17.2
TMCLKL	HY/2012/08	2019-11-29	Mid-Flood	IS(Mf)16	Fine	Rough		5.5	Surface	1	2	23.6	8	32.5	6.7	4.9	16.5
TMCLKL	HY/2012/08	2019-11-29	Mid-Flood	IS(Mf)16	Fine	Rough		5.5	Middle	2	1						
TMCLKL	HY/2012/08	2019-11-29	Mid-Flood	IS(Mf)16	Fine	Rough		5.5	Middle	2	2						
TMCLKL	HY/2012/08	2019-11-29	Mid-Flood	IS(Mf)16	Fine	Rough		5.5	Bottom	3	1	23.4	8	32.5	6.8	6.3	13.8
TMCLKL	HY/2012/08	2019-11-29	Mid-Flood	IS(Mf)16	Fine	Rough		5.5	Bottom	3	2	23.4	8	32.5	6.8	6.2	14.5
TMCLKL	HY/2012/08	2019-11-29	Mid-Flood	SR4a	Fine	Rough	10:54	4.3	Surface	1	1	23.4	8	32.6	6.6	2.8	14.5
TMCLKL	HY/2012/08	2019-11-29	Mid-Flood	SR4a	Fine	Rough	10:54	4.3	Surface	1	2	23.4	8	32.5	6.6	2.8	13.2
TMCLKL	HY/2012/08	2019-11-29	Mid-Flood	SR4a	Fine	Rough	10:54	4.3	Middle	2	1	+	1	-		1	+
TMCLKL	HY/2012/08	2019-11-29	Mid-Flood	SR4a	Fine	Rough	10:54	4.3	Middle	2	2	00.0		20.0	0.0		40.7
	HY/2012/08	2019-11-29	Mid-Flood	SR4a	Fine	Rough		4.3	Bottom	3	17	23.3	8	32.6	6.6	3.9	12.7
TMCLKL	HY/2012/08	2019-11-29	Mid-Flood	SR4a	Fine	Rough		4.3	Bottom	3	1	23.3	8	32.6	6.6	3.8	11.5
TMCLKL	HY/2012/08	2019-11-29	Mid-Flood	SR4(N2)	Fine	Rough	11:01	4.1	Surface	<u> </u>	[1	23.4	8	32.5	6.7	3	10.2

Project	Contract	Date	Tide	Stat	Weather	Sea Condition	Time	Water Depth	Level	Lev_Cod	Replicate	Temp(°C)	рН	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)
TMCLKL	HY/2012/08	2019-11-29	Mid-Flood	SR4(N2)	Fine	Rough	11:01	4.1	Surface	1	2	23.4	8	32.5	6.7	3	9.3
TMCLKL	HY/2012/08	2019-11-29	Mid-Flood	SR4(N2)	Fine	Rough	11:01	4.1	Middle	2	1						
TMCLKL	HY/2012/08	2019-11-29	Mid-Flood	SR4(N2)	Fine	Rough	11:01	4.1	Middle	2	2						
TMCLKL	HY/2012/08	2019-11-29	Mid-Flood	SR4(N2)	Fine	Rough	11:01	4.1	Bottom	3	1	23.3	8	32.5	6.9	5.6	9.2
TMCLKL	HY/2012/08	2019-11-29	Mid-Flood	SR4(N2)	Fine	Rough	11:01	4.1	Bottom	3	2	23.3	8	32.5	6.8	5.6	10.3
TMCLKL	HY/2012/08	2019-11-29	Mid-Flood	IS8(N)	Fine	Rough	11:08	4.4	Surface	1	1	23.5	8	32.5	6.8	7.7	11.1
TMCLKL	HY/2012/08	2019-11-29	Mid-Flood	IS8(N)	Fine	Rough	11:08	4.4	Surface	1	2	23.5	8	32.4	6.8	7.7	12.4
TMCLKL	HY/2012/08	2019-11-29	Mid-Flood	IS8(N)	Fine	Rough	11:08	4.4	Middle	2	1						
TMCLKL	HY/2012/08	2019-11-29	Mid-Flood	IS8(N)	Fine	Rough	11:08	4.4	Middle	2	2						
TMCLKL	HY/2012/08	2019-11-29	Mid-Flood	IS8(N)	Fine	Rough	11:08	4.4	Bottom	3	1	23.4	8	32.5	7	7.8	9.6
TMCLKL	HY/2012/08	2019-11-29	Mid-Flood	IS8(N)	Fine	Rough	11:08	4.4	Bottom	3	2	23.4	8	32.5	7	7.7	8.7
TMCLKL	HY/2012/08	2019-11-29	Mid-Flood	IS(Mf)9	Fine	Rough	11:17	3.9	Surface	1	1	23.6	8	32.5	6.8	9	12.2
TMCLKL	HY/2012/08	2019-11-29	Mid-Flood	IS(Mf)9	Fine	Rough	11:17	3.9	Surface	1	2	23.6	8	32.5	6.8	9	11.7
TMCLKL	HY/2012/08	2019-11-29	Mid-Flood	IS(Mf)9	Fine	Rough	11:17	3.9	Middle	2	1						
TMCLKL	HY/2012/08	2019-11-29	Mid-Flood	IS(Mf)9	Fine	Rough	11:17	3.9	Middle	2	2						
TMCLKL	HY/2012/08	2019-11-29	Mid-Flood	IS(Mf)9	Fine	Rough	11:17	3.9	Bottom	3	1	23.5	8	32.5	6.8	9.4	11.6
TMCLKL	HY/2012/08	2019-11-29	Mid-Flood	IS(Mf)9	Fine	Rough	11:17	3.9	Bottom	3	2	23.5	8	32.5	6.8	9.4	12.7
TMCLKL	HY/2012/08	2019-11-29	Mid-Flood	IS(Mf)11	Fine	Rough	10:24	11.2	Surface	1	1	23.5	8	32.5	6.8	4.1	10.3
TMCLKL	HY/2012/08	2019-11-29	Mid-Flood	IS(Mf)11	Fine	Rough	10:24	11.2	Surface	1	2	23.5	8	32.5	6.8	4.1	11.4
TMCLKL	HY/2012/08	2019-11-29	Mid-Flood	IS(Mf)11	Fine	Rough	10:24	11.2	Middle	2	1	23.5	8	32.5	6.8	3.3	9.7
TMCLKL	HY/2012/08	2019-11-29	Mid-Flood	IS(Mf)11	Fine	Rough	10:24	11.2	Middle	2	2	23.5	8	32.5	6.8	3.2	9.2
TMCLKL	HY/2012/08	2019-11-29	Mid-Flood	IS(Mf)11	Fine	Rough	10:24	11.2	Bottom	3	1	23.4	8	32.5	7	5.9	9.6
TMCLKL	HY/2012/08	2019-11-29	Mid-Flood	IS(Mf)11	Fine	Rough	10:24	11.2	Bottom	3	2	23.4	8	32.5	7	5.9	8.9
TMCLKL	HY/2012/08	2019-11-29	Mid-Flood	SR7	Fine	Rough	09:22	4.3	Surface	1	1	23.4	8	32.5	6.6	3.3	16.3
TMCLKL	HY/2012/08	2019-11-29	Mid-Flood	SR7	Fine	Rough	09:22	4.3	Surface	1	2	23.4	8	32.5	6.6	3.2	17.7
TMCLKL	HY/2012/08	2019-11-29	Mid-Flood	SR7	Fine	Rough	09:22	4.3	Middle	2	1						
TMCLKL	HY/2012/08	2019-11-29	Mid-Flood	SR7	Fine	Rough	09:22	4.3	Middle	2	2						
TMCLKL	HY/2012/08	2019-11-29	Mid-Flood	SR7	Fine	Rough	09:22	4.3	Bottom	3	1	23.4	8	32.5	6.7	5.3	16.5
TMCLKL	HY/2012/08	2019-11-29	Mid-Flood	SR7	Fine	Rough	09:22	4.3	Bottom	3	2	23.4	8	32.5	6.7	5.2	18.2
	HY/2012/08	2019-11-29	Mid-Flood	IS17	Fine	Rough		10.4	Surface	1	1	23.6	8	32.7	6.6	5.1	10.2
TMCLKL	HY/2012/08	2019-11-29	Mid-Flood	IS17	Fine	Rough	10:33	10.4	Surface	1	2	23.6	8	32.7	6.6	5.1	10
	HY/2012/08	2019-11-29	Mid-Flood	IS17	Fine	Rough	10:33	10.4	Middle	2	1	23.6	7.9	32.7	6.6	7.2	10.9
	HY/2012/08	2019-11-29	Mid-Flood	IS17	Fine	Rough	10:33	10.4	Middle	2	2	23.6	8	32.7	6.6	7.2	10.7
TMCLKL	HY/2012/08	2019-11-29	Mid-Flood	IS17	Fine	Rough	10:33	10.4	Bottom	3	1	23.6	7.9	32.6	6.6	9.6	9.9
TMCLKL	HY/2012/08	2019-11-29	Mid-Flood	IS17	Fine	Rough		10.4	+	3	2	23.6	7.9	32.6	6.6	9.6	9.1

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. 2. 3. 4. 5.	Identify the source. Repeat measurement to confirm finding. If two consecutive measurements exceed Action Level, the exceedance is then confirmed. Inform the IEC and the SOR. 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. Discuss with the IEC and the Contractor on remedial actions required. If exceedance continues, arrange meeting with the IEC	1. 2. 3.	Check monitoring data submitted by the ET. Check the 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.	1. 2. 3.	Confirm receipt of notification of failure in writing. Notify the Contractor. Ensure remedial measures properly implemented.	1. 2. 3.	Rectify any unacceptable practice Amend working methods if appropriate If the exceedance is confirmed to be Project related, submit proposals for remedial actions to IEC within 3 working days of notification Implement the agreed proposals
8.	and the SOR. If exceedance stops, cease additional monitoring.	5.	Supervise implementation of remedial measures.			5.	Amend proposal if appropriate

			Action			
	ET (a)]	IEC (a)	SOR (a)		Contractor(s)
Limit Level Exceedance						
1. 2. 3. 4. 5. 6. 7. 8.	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	1. 2. 3. 4.	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.
9.	remedial actions and keep the IEC, the DEP and the SOR informed of the results. If exceedance stops, cease additional monitoring.			abated.		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 Leader	IE	EC	SOR	Contractor
Action level being exceeded by one sampling day	 Repeat <i>in situ</i> measure day of exceedance to c findings; Identify source(s) of ir Inform IEC, contractor Check monitoring dat equipment and Contramethods. 	onfirm mpact; r and SOR; a, all plant,	Check monitoring data submitted by ET and Contractor's working methods.	Confirm receipt of notification of noncompliance in writing; Notify Contractor.	 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	 Repeat measurement of exceedance to confirm Identify source(s) of in Inform IEC, Contractor EPD; Check monitoring dat equipment and Contractor methods; Discuss mitigation mediate, SOR and Contractor 	a findings; mpact; or, SOR and 2. a, all plant, actor's working 2. easures with etor;	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	 Discuss with IEC on the proposed mitigation measures; Ensure mitigation measures are properly implemented; Assess the effectiveness of the implemented mitigation measures. 	Rectify unacceptable practice; Check all plant and equipment and consider changes of working methods; Submit proposal of
	6. Ensure mitigation me implemented;7. Increase the monitorin daily until no exceeda level;	ng frequency to nce of Action	implementation of mitigation measures.		additional mitigation measures to SOR within 3 working days of notification and discuss with ET, IEC and SOR; 5. Implement the agreed mitigation measures.
Limit level being exceeded by one sampling day	1. Repeat measurement exceedance to confirm		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; 2. Rectify unacceptable practice; 3. Check all plant and equipment and consider changes of working methods; 4. Submit proposal of mitigation measures to SOR within 3 working days of notification and discuss with ET, IEC and SOR.
Limit level being exceeded by two or more consecutive 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; 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 L1
 Cumulative Statistics on Exceedances

Parameters	Level of Exceedance	Total No. recorded in this reporting month	Total No. recorded since Contract commencement
1-hr TSP	Action	5	101
	Limit	3	11
24-hr TSP	Action	0	10
	Limit	0	4
Water Quality	Action	1	167
	Limit	0	19
Impact Dolphin	Action	0	11
Monitoring	Limit	1	17

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

Reporting Period	Cumulative Statistics					
	Complaints	Notifications of	Successful			
		Summons	Prosecutions			
This Reporting Month (November 2019)	0	0	0			
Total No. received since Contract commencement	17	1	0			

Email message

Environmental Resources Management

To Ramboll Hong Kong, Limited (ENPO)

2507, 25/F One Harbourfront 18 Tak Fung Street Hunghom, Kowloon

Hong Kong

From ERM- Hong Kong, Limited

Telephone: (852) 2271 3000 Facsimile: (852) 2723 5660

Ref/Contract number Contract No. HY/2012/08 Tuen Mun-Chek Lap

Kok Link-Northern Connection Sub-sea Tunnel

Section

Subject Notification of Exceedance for Air Quality

Impact Monitoring

Date 18 November 2019



Dear Sir or Madam,

Please find attached the Notification of Exceedance (NOE) of the following Log no.:

0212330_4November2019_1hrTSP_Station ASR1 0212330_4November2019_1hrTSP_Station ASR5

One Action Level and One Limit Level Exceedances were recorded on 4 November 2019.

Regards,

Dr Jasmine Ng

Environmental Team Leader

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ERM-Hong Kong, Limited



CONTRACT NO. HY/2012/08 TUEN MUN - CHEK LAP KOK LINK NORTHERN CONNECTION SUB-SEA TUNNEL SECTION

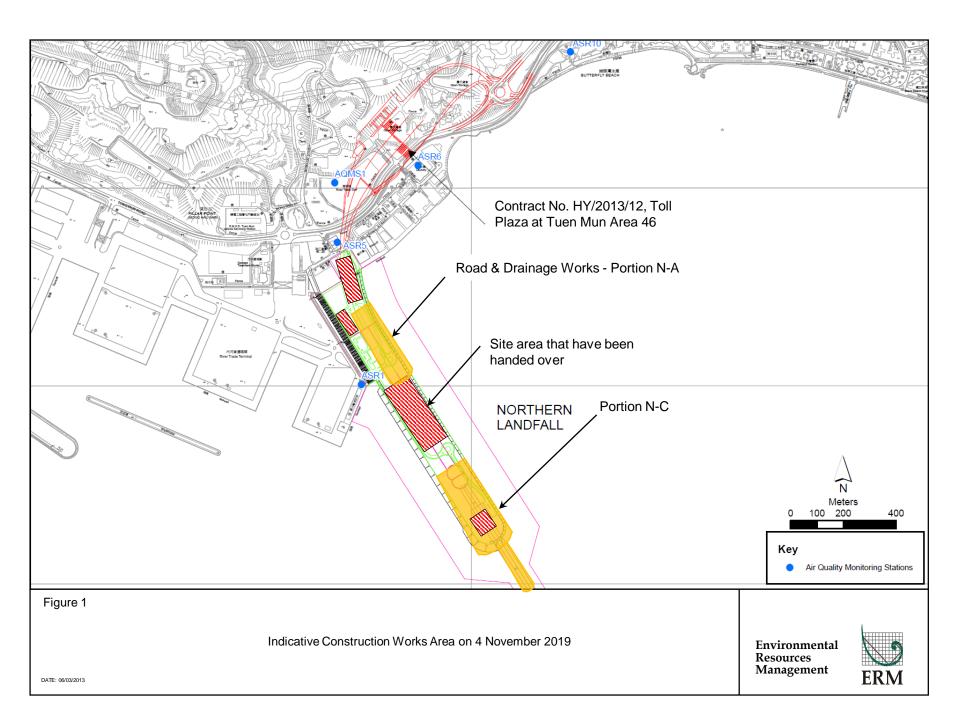
Air Quality Impact Monitoring Notification of Exceedance

Log No.	Action Level Exceedance						
Ü	0212330_4November2019_1hrTSP_Station ASR5						
	<u>Limit Level Exceedance</u>						
	0212330_4November2019_1hrTSP_Station ASR1						
		[Total No. of Exceedances = 2]					
Date	4 November 2019 (Measured)						
	14 Novemb	er 2019 (Laboratory results received by ERM)					
Monitoring Station	AS	R1, ASR5, ASR6, ASR10 and AQMS1					
Parameter(s) with Exceedance(s)		1-hr TSP					
Action Levels	24-hr TSP (μg/m³)	ASR1 = 213					
		ASR5 = 238					
		AQMS1 = 213					
		ASR6 = 238					
		ASR10 = 214					
	1-hr TSP (μg/m³)	ASR1 = 331					
		ASR5 = 340					
		AQMS1 = 335					
		ASR6 = 338					
		ASR10 = 337					
Limit Levels	1-hr TSP (μg/m³)	500					
	24-hr TSP (μg/m³)	260					
Measured Levels	Action Level Exceedance for 1-hr TSP is observed at ASR5 (398 µg/m3) during 0826 - 0926 hrs.						
	Limit Level Exceedance for 1-hr TSP is observed at ASR1 (626 µg/m3) during 0839 - 0939 hrs.						
Works Undertaken (at	On 4 November 2019, Road and Drainage Works were carried out on site.						
the time of monitoring event)							

Possible Reason for	The exceedance is unlikely to be due to this Contract, in view of the following:
Action or Limit Level	According to the construction information provided by the Contractor, only Road and
Exceedance(s)	Drainage Works were carried out on site on 4 November 2019.
Actions Taken/To Be Taken	 The exceedance is unlikely to be due to this Contract as dust suppression measures were implemented properly on site. Water spraying was applied on site to prevent dust. Water spraying was also applied on exposed soil within the Contract site and associated works areas. With reference to the recorded wind direction (ranged between 14° and 16°, blowing from a north-easterly direction) and wind speed (2.2 m/s) during the works period, Stations ASR1 are located downstream to the construction works at Portion N-A. However, only Road & Drainage Works was carried out at Portion N-A on 4 November 2019, Stations ASR1 are located downstream to the construction works at Portion N-A during the 1-hour TSP monitoring. However, with similar wind speed and wind direction in the 2nd and 3rd hour, the exceedance was only recorded in the 1st hour of 1-hour TSP monitoring with the same construction works and dust mitigation measures being carried out. Road & Drainage Works carried out at Portion N-A are unlikely to cause significant dust impact. Stations ASR5 are located upstream to the construction works at Portion N-A during the recorded exceedance. Therefore, the exceedance is unlikely to be related to this Contract. Based on the above, the exceedance is unlikely to be due to this Contract. The Contractor has been reminded to implement the required mitigation measures as per the EP, approved EIA and Updated EM&A Manual including watering to maintain all exposed road surfaces and dust sources wet, use of sprinklers for water spraying, covering the materials having the potential to create dust by clean tarpaulin, use of water truck and watering on all exposed soil
	within the Contract site throughout the construction period.
Remarks	The monitoring results, wind data and the locations of air quality monitoring stations are attached.

Air quality monitoring results on 4/11/2019								
Project	Contract	Date	Station	Weather	Start time	Parameters	Results	Unit
TMCLKL	HY/2012/08	2019-11-04	AQMS1	Sunny	8:50	1-hour TSP	154	ug/m3
TMCLKL	HY/2012/08	2019-11-04	AQMS1	Sunny	9:52	1-hour TSP	147	ug/m3
TMCLKL	HY/2012/08	2019-11-04	AQMS1	Sunny	10:54	1-hour TSP	143	ug/m3
TMCLKL	HY/2012/08	2019-11-04	ASR1	Sunny	8:39	1-hour TSP	626	ug/m3
TMCLKL	HY/2012/08	2019-11-04	ASR1	Sunny	9:41	1-hour TSP	264	ug/m3
TMCLKL	HY/2012/08	2019-11-04	ASR1	Sunny	10:43	1-hour TSP	251	ug/m3
TMCLKL	HY/2012/08	2019-11-04	ASR10	Sunny	8:02	1-hour TSP	117	ug/m3
TMCLKL	HY/2012/08	2019-11-04	ASR10	Sunny	9:04	1-hour TSP	83	ug/m3
TMCLKL	HY/2012/08	2019-11-04	ASR10	Sunny	10:06	1-hour TSP	105	ug/m3
TMCLKL	HY/2012/08	2019-11-04	ASR5	Sunny	8:26	1-hour TSP	398	ug/m3
TMCLKL	HY/2012/08	2019-11-04	ASR5	Sunny	9:28	1-hour TSP	251	ug/m3
TMCLKL	HY/2012/08	2019-11-04	ASR5	Sunny	10:30	1-hour TSP	242	ug/m3
TMCLKL	HY/2012/08	2019-11-04	ASR6	Sunny	8:14	1-hour TSP	202	ug/m3
TMCLKL	HY/2012/08	2019-11-04	ASR6	Sunny	9:16	1-hour TSP	174	ug/m3
TMCLKL	HY/2012/08	2019-11-04	ASR6	Sunny	10:18	1-hour TSP	169	ug/m3
TMCLKL	HY/2012/08	2019-11-04	AQMS1	Sunny	11:56	24-hour TSP	80	ug/m3
TMCLKL	HY/2012/08	2019-11-04	ASR1	Sunny	11:45	24-hour TSP	141	ug/m3
TMCLKL	HY/2012/08	2019-11-04	ASR10	Sunny	11:08	24-hour TSP	70	ug/m3
TMCLKL	HY/2012/08	2019-11-04	ASR5	Sunny	11:32	24-hour TSP	146	ug/m3
TMCLKL	HY/2012/08	2019-11-04	ASR6	Sunny	11:20	24-hour TSP	106	ug/m3

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)			
19/11/04	0:00	1.3	342			
19/11/04	1:00	1.8	17			
19/11/04	2:00	2.7	341			
19/11/04	3:00	3.1	359			
19/11/04	4:00	3.6	3			
19/11/04	5:00	3.6	4			
19/11/04	6:00	1.8	14			
19/11/04	7:00	1.3	342			
19/11/04	8:00	2.2	16			
19/11/04	9:00	2.2	14			
19/11/04	10:00	1.8	12			
19/11/04	11:00	2.2	30			
19/11/04	12:00	1.8	23			
19/11/04	13:00	1.8	16			
19/11/04	14:00	1.3	18			
19/11/04	15:00	1.3	25			
19/11/04	16:00	1.8	347			
19/11/04	17:00	1.8	332			
19/11/04	18:00	1.8	313			
19/11/04	19:00	0.9	326			
19/11/04	20:00	0.4	324			
19/11/04	21:00	0.4	320			
19/11/04	22:00	0.9	328			
19/11/04	23:00	1.8	343			





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

Weekly Water Spraying Record 每週灌水檢查記錄

Sit		登位置: 月:	No	orthern Landf	fallto	至/	O Nov	2019
	Time 時間	Monday 星期一	<u>Tuesday</u> 星期二	Wednesday 星期三	Thursday 星期四	Friday 星期五	Saturday 星期六	Sunday 星期日
1	8:00 - 8:45		/	/				
2	8:45 - 9:30	V.	V	V	/	/	1	1/
3	9:30 - 10:15	V.	1/		V	V.		
4	10:15 - 11:00			V.		$\sqrt{}$	V	1
5	11:00 - 11:45		1/		/		/	
6	11:45 - 12:30		1				V	1/
7	12:30 - 13:15	√.		<i>Y.</i>		V	1	
8	13:15 - 14:00				1/1		/	/
9	14:00 - 14:45			<u> </u>	V,	1	/	1
10	14:45 – 15:30		\checkmark			V	/	1
11	15:30 – 16:45	V.	\checkmark			/	V	1
12	16:45 – 17:30	$\sqrt{}$	\vee	/	/	1/		1
	Verified by Site Foreman 地盤科文簽署確認	7	F	F	7	7	F	7
Nigi	nt shift 夜間工作 (i	f necessary	如需要)					
	17:30 – 19:00							
	19:00 – 20:30							
	20:30 – 22:00							
	22:00 – 23:00							

*Please -

tick $(\sqrt{})$ in the box if complete the spraying of water. circle (O) in the box if it is raining.

*如果 - 已經完成灑水,請於方格內加上剔號(√)。 是下兩天, 請於方格內加上圓圈(O)。

Remarks:

- (1) Pursuant to EP Clause 3.15, the Permit Holder shall undertake watering at least 12 times per day on all exposed soil within the Project site and associated work areas in Tuen Mun area throughout the construction phase.
- (2) Spraying position includes the main haul road, open area, slopes, stockpiles and any other dusty materials.
- (3) If it is raining, no water spraying is needed.
- (4) The no of spraying will be increased due to site condition.

備註:

- (1) 根據環境許可證 3. 15 條例,在整個施工階段內,許可證持有人須每天至少 12 次在屯門區項目工地和 相關的工作區域內的所有暴露土壤灑水。
- (2) 灑水位置包括主要運輸道路,空曠地帶,斜坡,存料堆,以及任何其他產生塵埃物料。
- (3) 當下兩時, 地盤將不需要灑水。
- (4) 如果地盤情況更改或有需要時,灑水次數會相應增加。

Email message **Environmental** Resources Management

To Ramboll Hong Kong, Limited (ENPO) 2507, 25/F One Harbourfront

18 Tak Fung Street Hunghom, Kowloon

Hong Kong

Telephone: (852) 2271 3000 Facsimile: (852) 2723 5660

From ERM- Hong Kong, Limited

Contract No. HY/2012/08 Tuen Mun-Chek Lap

Kok Link-Northern Connection Sub-sea Tunnel

Section

Subject Notification of Exceedance for Air Quality

Impact Monitoring

Date 19 November 2019



Dear Sir or Madam,

Ref/Project number

Please find attached the Notification of Exceedance (NOE) of the following Log no.:

0212330_7November2019_1hrTSP_Station ASR5

One Action Level Exceedance was recorded on 7 November 2019.

Regards,

Dr Jasmine Ng

Environmental Team Leader

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ERM-Hong Kong, Limited



CONTRACT NO. HY/2012/08 TUEN MUN – CHEK LAP KOK LINK – NORTHERN CONNECTION SUB-SEA TUNNEL SECTION

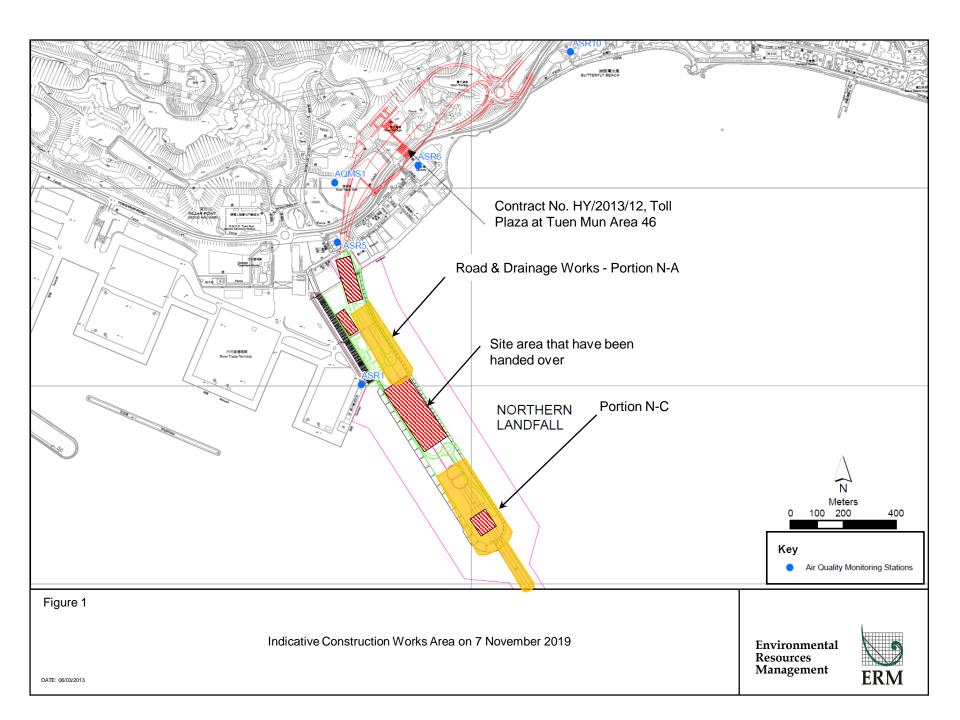
Air Quality Impact Monitoring Notification of Exceedance

		Action Level Exceedance				
	0212330_7November2019_1hrTSP_Station ASR5					
	[Total No. of Exceedances = 1]					
Date	7 November 2019 (Measured)					
	19 Noveml	ber 2019 (Laboratory results received by ERM)				
Monitoring Station	AS	SR1, ASR5, ASR6, ASR10 and AQMS1				
Parameter(s) with		1-hr TSP				
Exceedance(s)						
Action Levels	24-hr TSP (μg/m³)	ASR1 = 213				
		ASR5 = 238				
		AQMS1 = 213				
		ASR6 = 238				
		ASR10 = 214				
	1-hr TSP (μ g/m ³)	ASR1 = 331				
		ASR5 = 340				
		AQMS1 = 335				
		ASR6 = 338				
		ASR10 = 337				
Limit Levels	1-hr TSP ($\mu g/m^3$) 500					
	24-hr TSP (μ g/m ³)	260				
Measured Levels	Action Level Exceedance for 1-hr TSP is observed at ASR5 (479 µg/m3) during 1324- 1424hrs.					
Works Undertaken (at	On 7 November 2019, Road and Drainage Works were carried out on site.					
the time of monitoring						
event)						
	The exceedance is unlikely to be due to this Contract, in view of the following:					
Action or Limit Level	 According to the construction 	ction information provided by the Contractor, only Road and				
Exceedance(s)	Drainage Works were carried out on site on 7 November 2019.					
	The exceedance is unlikely to be due to this Contract as dust suppression measures were					
	implemented properly on site. Water spraying was applied on site to prevent dust. Water					
	spraying was also applied	d on exposed soil within the Project site and associated works areas.				
	With reference to the reco	orded wind direction (ranged between 16° and 304°, blowing from a				
	north-easterly or north-w	esterly direction) and wind speed (1.8 - 2.2 m/s) during the works				
	period, Stations ASR5 are	located upstream to the construction works at Portion N-A.				
	Therefore, the exceedance is unlikely to be related to this Contract.					
	Based on the above, the exceedar	nce is unlikely to be due to this Contract.				
Actions Taken / To Be	The Contractor has been reminde	ed to implement the required mitigation measures as per the EP,				
		&A Manual including watering to maintain all exposed road				
	• •	se of sprinklers for water spraying, covering the materials having				
		ean tarpaulin, use of water truck and watering on all exposed soil				
	within the Project site throughou					
	,	·				

Remarks	The monitoring results, wind data, water spraying record and the locations of air quality monitoring
	stations are attached.

		Air qual	ity monito	ring results	on 7/11/201	9		
Project	Contract	Date	Station	Weather	Start time	Parameters	Results	Unit
TMCLKL	HY/2012/08	2019-11-07	AQMS1	Sunny	13:46	1-hour TSP	85	ug/m3
TMCLKL	HY/2012/08	2019-11-07	AQMS1	Sunny	14:48	1-hour TSP	66	ug/m3
TMCLKL	HY/2012/08	2019-11-07	AQMS1	Sunny	15:50	1-hour TSP	72	ug/m3
TMCLKL	HY/2012/08	2019-11-07	ASR1	Sunny	13:35	1-hour TSP	239	ug/m3
TMCLKL	HY/2012/08	2019-11-07	ASR1	Sunny	14:37	1-hour TSP	180	ug/m3
TMCLKL	HY/2012/08	2019-11-07	ASR1	Sunny	15:39	1-hour TSP	160	ug/m3
TMCLKL	HY/2012/08	2019-11-07	ASR10	Sunny	13:01	1-hour TSP	93	ug/m3
TMCLKL	HY/2012/08	2019-11-07	ASR10	Sunny	14:03	1-hour TSP	55	ug/m3
TMCLKL	HY/2012/08	2019-11-07	ASR10	Sunny	15:05	1-hour TSP	53	ug/m3
TMCLKL	HY/2012/08	2019-11-07	ASR5	Sunny	13:24	1-hour TSP	479	ug/m3
TMCLKL	HY/2012/08	2019-11-07	ASR5	Sunny	14:26	1-hour TSP	161	ug/m3
TMCLKL	HY/2012/08	2019-11-07	ASR5	Sunny	15:28	1-hour TSP	147	ug/m3
TMCLKL	HY/2012/08	2019-11-07	ASR6	Sunny	13:13	1-hour TSP	212	ug/m3
TMCLKL	HY/2012/08	2019-11-07	ASR6	Sunny	14:15	1-hour TSP	117	ug/m3
TMCLKL	HY/2012/08	2019-11-07	ASR6	Sunny	15:17	1-hour TSP	85	ug/m3
TMCLKL	HY/2012/08	2019-11-07	AQMS1	Sunny	16:52	24-hour TSP	86	ug/m3
TMCLKL	HY/2012/08	2019-11-07	ASR1	Sunny	16:41	24-hour TSP	158	ug/m3
TMCLKL	HY/2012/08	2019-11-07	ASR10	Sunny	16:07	24-hour TSP	66	ug/m3
TMCLKL	HY/2012/08	2019-11-07	ASR5	Sunny	16:30	24-hour TSP	196	ug/m3
TMCLKL	HY/2012/08	2019-11-07	ASR6	Sunny	16:19	24-hour TSP	105	ug/m3

	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)							
19/11/07	0:00	0	-							
19/11/07	1:00	0	-							
19/11/07	2:00	0.4	22							
19/11/07	3:00	0.9	25							
19/11/07	4:00	1.8	32							
19/11/07	5:00	1.8	21							
19/11/07	6:00	1.3	22							
19/11/07	7:00	1.8	31							
19/11/07	8:00	1.8	15							
19/11/07	9:00	1.8	4							
19/11/07	10:00	2.2	33							
19/11/07	11:00	2.2	33							
19/11/07	12:00	2.2	16							
19/11/07	13:00	1.8	16							
19/11/07	14:00	2.2	304							
19/11/07	15:00	2.7	316							
19/11/07	16:00	1.3	341							
19/11/07	17:00	1.8	316							
19/11/07	18:00	1.8	327							
19/11/07	19:00	0.4	318							
19/11/07	20:00	0	-							
19/11/07	21:00	0.4	336							
19/11/07	22:00	1.3	313							
19/11/07	23:00	1.8	357							





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

Weekly Water Spraying Record 每週灌水檢查記錄

Sit		登位置: 月:	No	orthern Landf	fallto	至/	2 Nov	2019
	<u>Time</u> 時間	Monday 星期一	<u>Tuesday</u> 星期二	Wednesday 星期三	Thursday 星期四	Friday 星期五	Saturday 星期六	Sunday 星期日
1	8:00 - 8:45	/	/	/		7		
2	8:45 - 9:30	V.	V	V	/	1	1	1
3	9:30 - 10:15	1	1/1	1	V	V		
4	10:15 - 11:00	V.		V.			/	1
5	11:00 - 11:45		1/,				/	
6	11:45 - 12:30		1			/	V	1/
7	12:30 - 13:15	<i>\cdot\cdot\cdot\cdot\cdot\cdot\cdot\cdot</i>		<i>Y.</i>		$\sqrt{}$	/	1
8	13:15 - 14:00		1/		1/1		/	
9	14:00 - 14:45		/	<u> </u>	V,	1	/	1
10	14:45 – 15:30		$\sqrt{}$			V	/	1
11	15:30 – 16:45	V.	\checkmark			1	V	
12	16:45 – 17:30		V	/	/	V		1
	Verified by Site Foreman 地盤科文簽署確認	7	7	F	7	7	F	7
Nigi	ht shift 夜間工作 (i	f necessary	如需要)					
	17:30 – 19:00							
	19:00 – 20:30							
	20:30 – 22:00							
	22:00 – 23:00							

*Please -

tick $(\sqrt{})$ in the box if complete the spraying of water. circle (O) in the box if it is raining.

*如果 - 已經完成灑水,請於方格內加上剔號(√)。 是下兩天, 請於方格內加上圓圈(O)。

Remarks:

- (1) Pursuant to EP Clause 3.15, the Permit Holder shall undertake watering at least 12 times per day on all exposed soil within the Project site and associated work areas in Tuen Mun area throughout the construction phase.
- (2) Spraying position includes the main haul road, open area, slopes, stockpiles and any other dusty materials.
- (3) If it is raining, no water spraying is needed.
- (4) The no of spraying will be increased due to site condition.

備註:

- (1) 根據環境許可證 3. 15 條例,在整個施工階段內,許可證持有人須每天至少 12 次在屯門區項目工地和 相關的工作區域內的所有暴露土壤灑水。
- (2) 灑水位置包括主要運輸道路,空曠地帶,斜坡,存料堆,以及任何其他產生塵埃物料。
- (3) 當下兩時, 地盤將不需要灑水。
- (4) 如果地盤情況更改或有需要時,灑水次數會相應增加。

Email message

Environmental Resources Management

To Ramboll Hong Kong, Limited (ENPO)

2507, 25/F One Harbourfront 18 Tak Fung Street Hunghom, Kowloon

Hong Kong

From ERM- Hong Kong, Limited

Telephone: (852) 2271 3000 Facsimile: (852) 2723 5660

Ref/Contract number Contract No. HY/2012/08 Tuen Mun-Chek Lap

Kok Link-Northern Connection Sub-sea Tunnel

Section

Subject Notification of Exceedance for Air Quality

Impact Monitoring

Date 4 December 2019



Dear Sir or Madam,

Please find attached the Notification of Exceedance (NOE) of the following Log no.:

0212330_28November2019_1hrTSP_Station ASR1

0212330_28November2019_1hrTSP_Station ASR1

0212330_28November2019_1hrTSP_Station ASR1

 $0212330_28 November 2019_1 hr TSP_Station~ASR5$

0212330_28November2019_1hrTSP_Station ASR5

Two Limit Level and Three Action Level Exceedances were recorded on 28 November 2019.

Regards,

Dr Jasmine Ng

Environmental Team Leader

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ERM-Hong Kong, Limited



CONTRACT NO. HY/2012/08 TUEN MUN – CHEK LAP KOK LINK – NORTHERN CONNECTION SUB-SEA TUNNEL SECTION

Air Quality Impact Monitoring Notification of Exceedance

Log No.		Action Level Exceedance						
Log No.	0212220	28November2019_1hrTSP_Station ASR1						
		28November2019_1hrTSP_Station ASR1						
		28November2019_1hrTSP_Station ASR5						
	0212330_	Limit Level Exceedance						
	0212330	28November2019_1hrTSP_Station ASR1						
		28November2019_1hrTSP_Station ASR5						
	0212550_	[Total No. of Exceedances = 5]						
Date	28 November 2019 (Measured)							
		r 2019 (Laboratory results received by ERM)						
Monitoring Station	AS	R1, ASR5, ASR6, ASR10 and AQMS1						
Parameter(s) with		1-hr TSP						
Exceedance(s)	1-11 131							
Action Levels	24-hr TSP (μg/m³)	ASR1 = 213						
		ASR5 = 238						
		AQMS1 = 213						
		ASR6 = 238						
		ASR10 = 214						
	1-hr TSP (μg/m³)	ASR1 = 331						
		ASR5 = 340						
		AQMS1 = 335						
		ASR6 = 338						
		ASR10 = 337						
Limit Levels	1-hr TSP (μg/m³)	500						
	24-hr TSP (μg/m³) 260							
Measured Levels	Action Level Exceedance for 1-hr	TSP is observed at ASR1 (452 μg/m³) during 0940- 1040hrs.						
	Action Level Exceedance for 1-hr TSP is observed at ASR1 (385 μg/m³) during 1042- 1142hr. Action Level Exceedance for 1-hr TSP is observed at ASR5 (500 μg/m³) during 0927- 1027hr.							
	Limit Level Exceedance for 1-hr T	SP is observed at ASR1 (577 μg/m³) during 0838-0938hrs.						
	Limit Level Exceedance for 1-hr T	SP is observed at ASR5 (534 $\mu g/m^3$) during 0802- 0902hrs.						
Works Undertaken (at	On 28 November 2019, Road and	Drainage Works were carried out on site.						
the time of monitoring								
event)								

Possible Reason for	The exceedance is unlikely to be due to this Contract, in view of the following:
Action or Limit Level	According to the construction information provided by the Contractor, only Road and
Exceedance(s)	Drainage Works were carried out on site on 28 November 2019.
	 The exceedance is unlikely to be due to this Contract as dust suppression measures were implemented properly on site. Water spraying was applied on site to prevent dust. Water spraying was also applied on exposed soil within the Contract site and associated works areas. Photo record is provided. With reference to the recorded wind direction (ranged between 14° and 34°, blowing from a north-easterly direction) and wind speed (2.2 - 2.7 m/s) during the works period, Stations ASR5 are located upstream to the construction works at Portion N-A. Stations ASR1 are located downstream to the construction works at Portion N-A. However, Road & Drainage Works carried out at Portion N-A with implementation of dust mitigation measures are unlikely to cause significant dust impact. Based on the above, the exceedance is unlikely to be due to this Contract.
Actions Taken / To Be	The Contractor has been reminded to implement the required mitigation measures as per the EP,
Taken	approved EIA and Updated EM&A Manual including watering to maintain all exposed road
	surfaces and dust sources wet, use of sprinklers for water spraying, covering the materials having
	the potential to create dust by clean tarpaulin, use of water truck and watering on all exposed soil
	within the Contract site throughout the construction period.
Remarks	The monitoring results, wind data and the locations of air quality monitoring stations are attached.

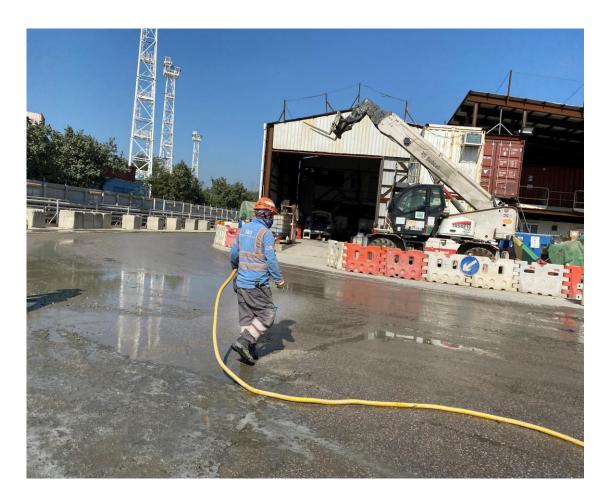


Annex A Photos provided by the Contractor

*Note: Photos taken on 28/11/2019



Water truck was used for water spraying to prevent dust. (Works Area Portion N-A)



Water spraying was applied on main haul road to prevent dust. (Works Area Portion N-A)



Annex A Photos provided by the Contractor

*Note: Photos taken on 28/11/2019



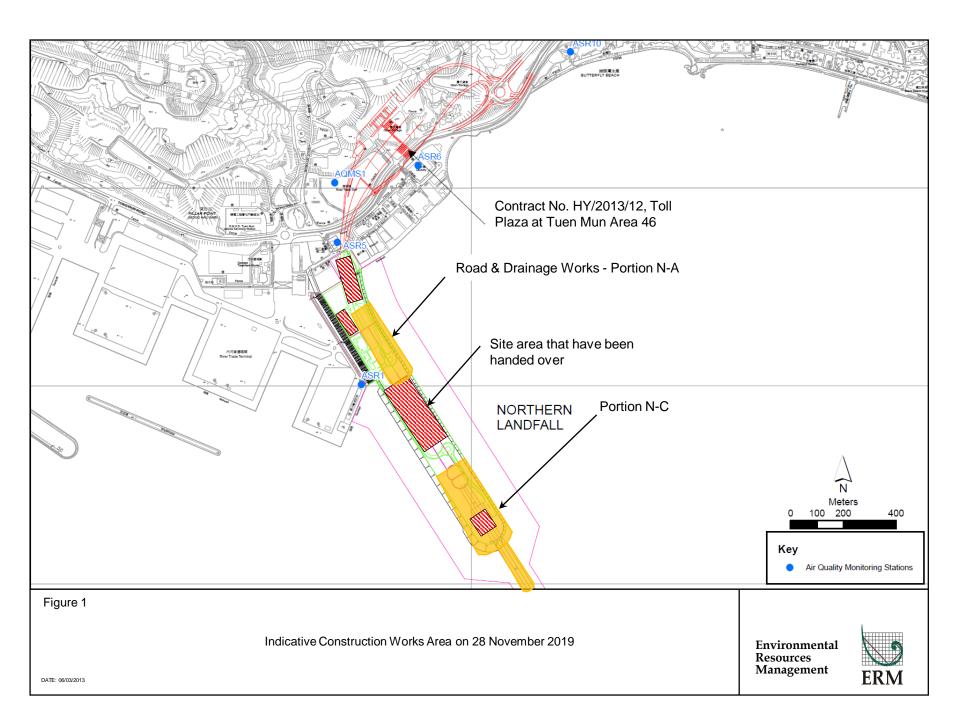
Exposed soi is covered by tarpaulin sheet to prevent dust. (Works Area Portion N-C)



Water spraying was applied on main haul road to prevent dust. (Works Area Portion N-C)

	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)							
19/11/28	0:00	0	-							
19/11/28	1:00	0.4	346							
19/11/28	2:00	1.8	2							
19/11/28	3:00	2.2	331							
19/11/28	4:00	0.9	20							
19/11/28	5:00	1.3	341							
19/11/28	6:00	1.3	339							
19/11/28	7:00	1.3	357							
19/11/28	8:00	2.2	24							
19/11/28	9:00	2.7	14							
19/11/28	10:00	2.2	34							
19/11/28	11:00	1.8	344							
19/11/28	12:00	1.8	311							
19/11/28	13:00	1.8	310							
19/11/28	14:00	1.8	336							
19/11/28	15:00	1.3	341							
19/11/28	16:00	1.8	337							
19/11/28	17:00	1.3	340							
19/11/28	18:00	1.8	338							
19/11/28	19:00	1.8	335							
19/11/28	20:00	2.2	3							
19/11/28	21:00	2.2	20							
19/11/28	22:00	2.7	24							
19/11/28	23:00	2.2	30							

Project	Contract	Date	Station	Weather	Start time	Parameters	Results	Unit
TMCLKL	HY/2012/08	2019-11-28	AQMS1	Sunny	8:49	1-hour TSP	187	ug/m3
TMCLKL	HY/2012/08	2019-11-28	AQMS1	Sunny	9:51	1-hour TSP	161	ug/m3
TMCLKL	HY/2012/08	2019-11-28	AQMS1	Sunny	10:53	1-hour TSP	143	ug/m3
TMCLKL	HY/2012/08	2019-11-28	ASR1	Sunny	8:38	1-hour TSP	577	ug/m3
TMCLKL	HY/2012/08	2019-11-28	ASR1	Sunny	9:40	1-hour TSP	452	ug/m3
TMCLKL	HY/2012/08	2019-11-28	ASR1	Sunny	10:42	1-hour TSP	385	ug/m3
TMCLKL	HY/2012/08	2019-11-28	ASR10	Sunny	8:00	1-hour TSP	125	ug/m3
TMCLKL	HY/2012/08	2019-11-28	ASR10	Sunny	9:02	1-hour TSP	139	ug/m3
TMCLKL	HY/2012/08	2019-11-28	ASR10	Sunny	10:04	1-hour TSP	143	ug/m3
TMCLKL	HY/2012/08	2019-11-28	ASR5	Sunny	8:02	1-hour TSP	534	ug/m3
TMCLKL	HY/2012/08	2019-11-28	ASR5	Sunny	9:27	1-hour TSP	500	ug/m3
TMCLKL	HY/2012/08	2019-11-28	ASR5	Sunny	10:29	1-hour TSP	299	ug/m3
TMCLKL	HY/2012/08	2019-11-28	ASR6	Sunny	8:13	1-hour TSP	216	ug/m3
TMCLKL	HY/2012/08	2019-11-28	ASR6	Sunny	9:15	1-hour TSP	183	ug/m3
TMCLKL	HY/2012/08	2019-11-28	ASR6	Sunny	10:17	1-hour TSP	175	ug/m3
TMCLKL	HY/2012/08	2019-11-28	AQMS1	Sunny	11:55	24-hour TSP	96	ug/m3
TMCLKL	HY/2012/08	2019-11-28	ASR1	Sunny	11:44	24-hour TSP	207	ug/m3
TMCLKL	HY/2012/08	2019-11-28	ASR10	Sunny	11:06	24-hour TSP	71	ug/m3
TMCLKL	HY/2012/08	2019-11-28	ASR5	Sunny	11:31	24-hour TSP	131	ug/m3
TMCLKL	HY/2012/08	2019-11-28	ASR6	Sunny	11:19	24-hour TSP	109	ug/m3





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

Weekly Water Spraying Record 每週灑水檢查記錄

	Site Location 地盤位置:Northern Landfall Date 日期:										
	Time 時間	Monday 星期一	<u>Tuesday</u> 星期二	Wednesday 星期三	Thursday 星期四	Friday 星期五	Saturday 星期六	Sunday 星期日			
1	8:00 - 8:45						/				
2	8:45 - 9:30	$\sqrt{}$	\sim	$\sqrt{}$	V.	\		V			
3	9:30 - 10:15	$\sqrt{}$	\checkmark	$\sqrt{}$		/	V.	V			
4	10:15 - 11:00	$\sqrt{}$	\checkmark		$\sqrt{}$						
5	11:00 - 11:45		\checkmark		√.	/	\checkmark	V			
6	11:45 - 12:30	V		\checkmark	\checkmark	$\sqrt{}$	V	1			
7	12:30 - 13:15	\checkmark	\checkmark	V	\checkmark	/	V	V			
8	13:15 - 14:00	\checkmark	\checkmark		V	$\sqrt{}$	$\sqrt{}$	V			
9	14:00 - 14:45	V	V	✓	$\sqrt{}$	V		V			
10	14:45 – 15:30	V	\checkmark	\checkmark		V.	$\sqrt{}$	$\overline{}$			
11	15:30 – 16:45	V	\checkmark	$\sqrt{}$	V		V	V			
12	16:45 – 17:30	V	$\sqrt{}$	\checkmark	\/			1/			
	Verified by Site Foreman 地盤科文簽署確認	7	7	7	7	7	7	7			
Nigh	nt shift 夜間工作 (i	f necessary	如需要)								

17:30 – 19:00		
19:00 - 20:30		
20:30 - 22:00		
22:00 - 23:00		

*Please -

tick $(\sqrt{})$ in the box if complete the spraying of water. circle (O) in the box if it is raining.

*如果 - 已經完成灑水,請於方格內加上剔號(√)。 是下兩天, 請於方格內加上圓圈(O)。

Remarks:

- (1) Pursuant to EP Clause 3.15, the Permit Holder shall undertake watering at least 12 times per day on all exposed soil within the Project site and associated work areas in Tuen Mun area throughout the construction phase.
- (2) Spraying position includes the main haul road, open area, slopes, stockpiles and any other dusty materials.
- (3) If it is raining, no water spraying is needed.
- (4) The no of spraying will be increased due to site condition.

備註:

- (1) 根據環境許可證 3.15 條例,在整個施工階段內,許可證持有人須每天至少 12 次在屯門區項目工地和 相關的工作區域內的所有暴露土壤灑水。
- (2) 灑水位置包括主要運輸道路,空曠地帶,斜坡,存料堆,以及任何其他產生塵埃物料。
- (3) 當下雨時, 地盤將不需要灑水。
- (4) 如果地盤情況更改或有需要時,灑水次數會相應增加。

Email message Environmental Resources Management

To Ramboll Hong Kong Limited (ENPO)

2507,

From

Subject

Date

ERM- Hong Kong, Limited

25/F One Harbourfront, 18 Tak Fung Street, Hung Hom, Hong Kong Telephone: (852) 2271 3113 Facsimile: (852) 2723 5660

E-mail: jasmine.ng@erm.com

Ref/Project number

Contract No. HY/2012/08 Tuen Mun-Chek Lap

Kok Link-Northern Connection Sub-sea Tunnel

Section

Notification of Exceedance for Water Quality

Impact Monitoring

19 November 2019

ERM

Dear Sir or Madam,

Please find the Notification of Exceedance (NOE) of the following Log no.: Action Level Exceedance

0212330_1 November 2019_ Depth_averaged SS_E_Station IS(Mf)16

A total of one Action Level exceedance was recorded on 1 November 2019.

Regards,

Dr Jasmine Ng

Environmental Team Leader

CONFIDENTIALITY NOTICE

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ERM-Hong Kong, Limited

CONTRACT NO. HY/2012/08 TUEN MUN - CHEK LAP KOK LINK NORTHERN CONNECTION SUB-SEA TUNNEL SECTION

Marine Water Quality Impact Monitoring Notification of Exceedance

Date 1 November 2019 Depth_averaged SS_E_Station IS(Mf)16 [Total No. of Exceedances = 1] 1 November 2019 (Measured) 4 November 2019 (In situ results received by ERM) 12 November 2019 (In situ results received by ERM) 12 November 2019 (In situ results received by ERM) Monitoring Station Parameter(s) with Exceedance(s) Action Level SS	Log No.	Action Level Exceedance									
Date	2081101										
Date 1 November 2019 (Measured) 4 November 2019 (In situ results received by ERM) 12 November 2019 (Laboratory results received by ERM) Station CS(Mf)5, SR4a, SR4(N2), IS8(N), IS(Mf)16, IS(Mf)9, CS(Mf)3(N), SR7, IS17, IS(Mf)11 Station Parameter(s) with Exceedance(s) Action Levels SS 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 Limit Levels SS 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 Measured Levels Action Level Exceedance 1. Mid-ebb at IS(Mf)16 (Depth-averaged SS = 24.8 mg/L) Works Undertaken (at the time of monitoring event) Possible Reason for Action or Limit Level Exceedances are unlikely to be due to the Contract, in view of the following: • All monitored parameters, except SS, at all monitoring stations were in compliance with the Action and Limit Levels during both mid-ebb and mid-flood tides on the same day. • As no marine works was carried out on 1 November 2019, the exceedance is unlikely to be caused by the marine works of this Contract. • As reported by the Contractor, no discharge of organic matters into waters from landside works area was recorded. Therefore, exceedance recorded at IS(Mf)16 during mid-ebb tide is unlikely to be caused by the marine works of this Contract.											
A November 2019 (In situ results received by ERM) 12 November 2019 (Laboratory results received by ERM) **CS(Mf)5, SR4a, SR4(N2), IS8(N), IS(Mf)16, IS(Mf)9, CS(Mf)3(N), SR7, IS17, IS(Mf)11 **Station** **Parameter(s) with Exceedance(s) **Suspended solids (mg/L) **Suspended solids (
Monitoring Station Scaling CS(Mf)5, SR4a, SR4(N2), IS8(N), IS(Mf)16, IS(Mf)9, CS(Mf)3(N), SR7, IS17, IS(Mf)11 Suspended solids (mg/L) Suspended solids (mg/L) Suspended solids (mg/L) Signature Signatur	Date	· · · · · · · · · · · · · · · · · · ·									
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marine works of this Contract.											
Astions Ni to district and a second of the s			·								
ACTIONS No immediate action is considered necessary. The E1 will monitor for future trends in exceedances.	Actions	No immediate action is considered necessary. The ET will monitor for future trends in exceedance	es.								
Taken/To	Taken/To	·									
Be Taken											
Remarks The monitoring results on 1 November 2019 and locations of water quality monitoring stations are attached.	Remarks	The monitoring results on 1 November 2019 and locations of water quality monitoring stations are	attached.								

		Date (yyyy-mm- dd)	Tide	Station	Start Time	Level	Lev_Cod	Replicate	Temperature (°C)	рН	Salinity (ppt)	DO (mg/L)	Average DO (mg/L)	Turbidity (NTU)	Depth- Averaged Turbidity	SS (mg/L)	Depth- Averaged SS
TMCLKI IIV	HY/2012/08	2019-11-01	Mid-Ebb	CS(Mf)5	16:08	Surface	1	1	26.8	8.1	32.1	5.6		4.2		6.8	
LIMICENE 111	HY/2012/08	2019-11-01	Mid-Ebb	CS(Mf)5	16:08	Surface	1	2	26.8	8.1	32.1	5.6	5.5	4.0		6.4	
TMCLKL HY	HY/2012/08	2019-11-01	Mid-Ebb	CS(Mf)5	16:08	Middle	2	1	26.7	8.1	32.5	5.5	3.5	5.7	5.5	6.6	6.9
TMCLKL HY	HY/2012/08	2019-11-01	Mid-Ebb	CS(Mf)5	16:08	Middle	2	2	26.7	8.1	32.4	5.4		5.5	3.3	6.4] 0.9
	HY/2012/08	2019-11-01	Mid-Ebb	CS(Mf)5	16:08	Bottom	3	1	26.7	8.1	32.6	5.5	5.5	6.7		7.4	_
	HY/2012/08		Mid-Ebb	CS(Mf)5	16:08	Bottom	3	2	26.7	8.1	32.6	5.5		6.6		7.5	
	HY/2012/08		Mid-Ebb	CS(Mf)3(N)	15:21	Surface	1	1	26.6	8.1	30.5	6.1		4.9		8.2	1
	HY/2012/08		Mid-Ebb	CS(Mf)3(N)	15:21	Surface	1	2	26.7	8.2	30.3	6.1	6.1	4.2		8.1	4
			Mid-Ebb	CS(Mf)3(N)	15:21	Middle Middle	2	1	26.3	8.1	31.6	6.2	-	9.3	8.1	9.7	9.8
	HY/2012/08 HY/2012/08		Mid-Ebb Mid-Ebb	CS(Mf)3(N) CS(Mf)3(N)	15:21 15:21	Bottom	3	2	26.4 26.3	8.2	31.4 31.8	6.1 6.3	 	8.5 10.9	1	8.6 12.4	-
	HY/2012/08		Mid-Ebb	CS(Mf)3(N)	15:21	Bottom	3	2	26.3	8.2	31.8	6.2	6.3	10.9		11.7	1
	HY/2012/08		Mid-Ebb	IS(Mf)16	14:38	Surface	1	1	26.6	8.1	31.6	6.0		8.6		23.1	
			Mid-Ebb	IS(Mf)16	14:38	Surface	1	2	26.7	8.2	31.6	6.0	1 1	8.6	1	23.3	-
	HY/2012/08		Mid-Ebb	IS(Mf)16	14:38	Middle	2	1	20.7	0.2	31.0	0.0	6.0	0.0	1	23.3	
	HY/2012/08		Mid-Ebb	IS(Mf)16	14:38	Middle	2	2					1 1		9.2		24.8
	HY/2012/08	2019-11-01	Mid-Ebb	IS(Mf)16	14:38	Bottom	3	1	26.4	8.1	31.6	6.1	6.4	9.7	1	26.1	
	HY/2012/08		Mid-Ebb	IS(Mf)16	14:38	Bottom	3	2	26.4	8.2	31.6	6.0	6.1	9.7	1	26.5	
TMCLKL HY	HY/2012/08	2019-11-01	Mid-Ebb	SR4a	14:28	Surface	1	1	26.6	8.1	31.5	5.9		6.4		11.5	
TMCLKL HY	HY/2012/08	2019-11-01	Mid-Ebb	SR4a	14:28	Surface	1	2	26.6	8.2	31.5	5.9	5.9	5.9		11.7	
TMCLKL HY	HY/2012/08	2019-11-01	Mid-Ebb	SR4a	14:28	Middle	2	1					3.9		7.4		10.2
TMCLKL HY	HY/2012/08	2019-11-01	Mid-Ebb	SR4a	14:28	Middle	2	2] /.4] 10.2
TMCLKL HY	HY/2012/08	2019-11-01	Mid-Ebb	SR4a	14:28	Bottom	3	1	26.6	8.1	31.5	6.1	6.0	8.8		8.6	
	HY/2012/08		Mid-Ebb	SR4a	14:28	Bottom	3	2	26.5	8.2	31.5	5.9	5.5	8.5		9.0	
	HY/2012/08		Mid-Ebb	SR4(N2)	14:24	Surface	1	1	26.8	8.1	31.4	6.0		4.9		5.3	_
	HY/2012/08		Mid-Ebb	SR4(N2)	14:24	Surface	1	2	26.8	8.2	31.4	6.0	6.0	4.8		5.9	4
			Mid-Ebb	SR4(N2)	14:24	Middle	2	1					∤ ⊦		5.0		7.4
	· · · · · ·		Mid-Ebb	SR4(N2)	14:24	Middle	2	2	26.7	0.1	24.5	C 1	 	F 4	-	0.0	_
		2019-11-01	Mid-Ebb	SR4(N2)	14:24	Bottom	3	1	26.7	8.1	31.5	6.1 6.1	6.1	5.1	-	9.0 9.5	_
			Mid-Ebb Mid-Ebb	SR4(N2) IS8(N)	14:24 14:20	Bottom Surface	1	2 1	26.7 26.6	8.1	31.4 31.4	6.0	 	5.1 11.8		6.5	
	HY/2012/08		Mid-Ebb	IS8(N)	14:20	Surface	1	2	26.6	8.2	31.4	5.9	1 }	11.5	-	6.8	1
			Mid-Ebb	IS8(N)	14:20	Middle	2	1	20.0	0.2	31.4	3.3	6.0	11.5	1	0.0	1
			Mid-Ebb	IS8(N)	14:20	Middle	2	2					1 1		11.9		8.2
			Mid-Ebb	IS8(N)	14:20	Bottom	3	1	26.6	8.1	31.4	6.0		12.1		9.4	1
			Mid-Ebb	IS8(N)	14:20	Bottom	3	2	26.6	8.2	31.4	6.0	6.0	12.2		10.2	
	HY/2012/08	2019-11-01	Mid-Ebb	IS(Mf)9	14:14	Surface	1	1	26.4	8.1	31.5	6.0		11.9		12.9	
TMCLKL HY	HY/2012/08	2019-11-01	Mid-Ebb	IS(Mf)9	14:14	Surface	1	2	26.4	8.2	31.4	6.0	6.0	11.4		12.1	
TMCLKL HY	HY/2012/08	2019-11-01	Mid-Ebb	IS(Mf)9	14:14	Middle	2	1] 6.0		12.1		13.5
TMCLKL HY	HY/2012/08	2019-11-01	Mid-Ebb	IS(Mf)9	14:14	Middle	2	2							12.1] 13.3
TMCLKL HY	HY/2012/08	2019-11-01	Mid-Ebb	IS(Mf)9	14:14	Bottom	3	1	26.3	8.1	31.5	6.1	6.1	12.7		14.9	
TMCLKL HY	HY/2012/08		Mid-Ebb	IS(Mf)9	14:14	Bottom	3	2	26.3	8.2	31.5	6.1	0.1	12.5		14.2	
	-		Mid-Ebb	IS(Mf)11	14:52	Surface	1	1	26.5	8.1	31.6	6.1	1 1	7.0		11.0	
	HY/2012/08		Mid-Ebb	IS(Mf)11	14:52	Surface	1	2	26.7	8.2	31.6	6.1	6.0	5.6		10.6	_
			Mid-Ebb	IS(Mf)11	14:52	Surface	2	1	26.2	8.1	31.6	5.8		11.7	10.2	11.3	11.3
	HY/2012/08		Mid-Ebb	IS(Mf)11	14:52	Surface	2	2	26.2	8.2	31.6	5.8		10.6		11.4	4 1
	-		Mid-Ebb	IS(Mf)11	14:52	Surface	3	1	26.2	8.1	31.6	6.0	6.0	12.8		11.8	4 1
-	HY/2012/08		Mid-Ebb	IS(Mf)11	14:52	Surface	3	2	26.2	8.2	31.6	5.9	 	13.4		11.7	<u> </u>
	HY/2012/08		Mid-Ebb	SR7	15:47	Surface	1	2	26.7	8.1	31.8	6.0	-	5.7		10.0	-{
-	HY/2012/08 HY/2012/08		Mid-Ebb Mid-Ebb	SR7 SR7	15:47 15:47	Surface Surface	2	2 1	26.7	8.2	31.7	6.0	6.0	5.1	1	9.8	
		-	Mid-Ebb	SR7	15:47	Surface	2	2					 		7.3		10.2
	1Y/2012/08 1Y/2012/08		Mid-Ebb	SR7	15:47	Surface	3	1	26.4	8.1	31.8	6.1		9.1		10.6	
	HY/2012/08		Mid-Ebb	SR7	15:47	Surface	3	2	26.5	8.2	31.8	6.0	6.1	9.1	1	10.3	† l
	HY/2012/08	-	Mid-Ebb	IS17	14:44	Surface	1	1	26.8	8.1	31.8	5.9		4.2		5.1	+ -
	HY/2012/08		Mid-Ebb	IS17	14:44	Surface	1	2	26.9	8.2	31.8	5.9	† __	4.1		5.8	† l
			Mid-Ebb	IS17	14:44	Surface	2	1	26.4	8.1	31.7	5.9	5.9	5.7	1	6.4	† <u> </u>
	HY/2012/08			IS17	14:44	Surface	2	2	26.4	8.2	31.7	5.9	1	5.5	5.2	7.1	6.7

Project	Contract	Date (yyyy-mr	n- Tide	Station	Start Time	Level	Lev_Cod	Replicate	Temperature (°C)	рН	Salinity (ppt)	DO (mg/L)	Average DO (mg/L)	Turbidity (NTU)	Depth- Averaged Turbidity	SS (mg/L)	Depth- Averaged SS
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	IS17	14:44	Surface	3	1	26.4	8.1	31.7	6.1	6.1	5.9		7.6	
TMCLKL	HY/2012/08	2019-11-01	Mid-Ebb	IS17	14:44	Surface	3	2	26.4	8.2	31.7	6.1	0.1	5.9		8.1	
TMCLKL	HY/2012/08	2019-11-01	Mid-flood	CS(Mf)5	9:14	Surface	1	1	26.3	8.2	31.8	5.8		5.2	_	7.7	_
TMCLKL	HY/2012/08	2019-11-01	Mid-flood	CS(Mf)5	9:14	Surface	1	2	26.3	8.0	31.8	5.8	5.8	5.1	-	7.9	_
TMCLKL	HY/2012/08 HY/2012/08	2019-11-01	Mid-flood Mid-flood	CS(Mf)5	9:14 9:14	Middle Middle	2 2	2	26.3 26.3	8.1	31.8 31.8	5.8 5.8	-	10.4 10.5	8.7	7.4 7.8	7.7
TMCLKL TMCLKL	HY/2012/08	2019-11-01	Mid-flood	CS(Mf)5 CS(Mf)5	9:14	Bottom	3	1	26.3	8.1	31.8	5.8		10.3	1	7.8	1
TMCLKL	HY/2012/08	2019-11-01	Mid-flood	CS(Mf)5	9:14	Bottom	3	2	26.3	8.0	31.8	5.8	5.8	10.7	1	7.9	1
TMCLKL	HY/2012/08	2019-11-01	Mid-flood	CS(Mf)3(N)	10:07	Surface	1	1	26.3	8.2	30.6	6.0		5.3		7.4	
TMCLKL	HY/2012/08	2019-11-01	Mid-flood	CS(Mf)3(N)	10:07	Surface	1	2	26.3	8.1	30.6	6.0	6.1	5.3]	7.1	
TMCLKL	HY/2012/08	2019-11-01	Mid-flood	CS(Mf)3(N)	10:07	Middle	2	1	26.1	8.2	30.8	6.1] 0.1	8.2	8.0	7.0	7.3
TMCLKL	HY/2012/08	2019-11-01	Mid-flood	CS(Mf)3(N)	10:07	Middle	2	2	26.2	8.1	30.8	6.1		7.5	1	7.3	4
TMCLKL TMCLKL	HY/2012/08 HY/2012/08	2019-11-01 2019-11-01	Mid-flood Mid-flood	CS(Mf)3(N)	10:07 10:07	Bottom Bottom	3 3	2	26.1 26.1	8.2	30.9 30.9	6.1	6.1	11.0 10.8	-	7.5 7.2	4
TMCLKL	HY/2012/08 HY/2012/08	2019-11-01	_	CS(Mf)3(N) IS(Mf)16	10:07	Surface	1	1	26.3	8.2	31.6	6.1 5.9		15.0		19.6	
TMCLKL	HY/2012/08	2019-11-01	Mid-flood	IS(Mf)16	10:55	Surface	1	2	26.3	8.1	31.6	5.8	1	14.8	†	19.9	1
TMCLKL	HY/2012/08	2019-11-01	Mid-flood	IS(Mf)16	10:55	Middle	2	1					5.9		1 454		1 22.0
TMCLKL	HY/2012/08	2019-11-01	Mid-flood	IS(Mf)16	10:55	Middle	2	2					<u> </u>		15.1		22.0
TMCLKL	HY/2012/08	2019-11-01	Mid-flood	IS(Mf)16	10:55	Bottom	3	1	26.3	8.2	31.6	6.0	6.0	15.2]	24.4	<u> </u>
TMCLKL	HY/2012/08	2019-11-01	Mid-flood	IS(Mf)16	10:55	Bottom	3	2	26.3	8.1	31.6	6.0	0.0	15.5		24.2	
TMCLKL	HY/2012/08	2019-11-01	Mid-flood	SR4a	11:05	Surface	1	1	26.3	8.2	31.5	5.7	-	6.9	-	10.6	4
TMCLKL TMCLKL	HY/2012/08 HY/2012/08	2019-11-01 2019-11-01	Mid-flood Mid-flood	SR4a SR4a	11:05 11:05	Surface Middle	1 2	2	26.3	8.1	31.5	5.7	5.7	6.6	-	11.1	4
TMCLKL	HY/2012/08	2019-11-01	Mid-flood	SR4a	11:05	Middle	2	2					-		7.1		11.1
TMCLKL	HY/2012/08	2019-11-01	Mid-flood	SR4a	11:05	Bottom	3	1	26.3	8.1	31.6	5.9		7.5	†	11.5	1
TMCLKL	HY/2012/08	2019-11-01		SR4a	11:05	Bottom	3	2	26.4	8.1	31.6	5.9	5.9	7.4	1	11.2	1
TMCLKL	HY/2012/08	2019-11-01	Mid-flood	SR4(N2)	11:10	Surface	1	1	26.3	8.2	31.4	6.0		5.9		3.7	
TMCLKL	HY/2012/08	2019-11-01	Mid-flood	SR4(N2)	11:10	Surface	1	2	26.3	8.1	31.4	6.0	6.0	6.0		3.7]
TMCLKL	HY/2012/08	2019-11-01	Mid-flood	SR4(N2)	11:10	Middle	2	1] 0.0		9.4		4.0
TMCLKL	HY/2012/08	2019-11-01	Mid-flood	SR4(N2)	11:10	Middle	2	2	26.4	0.0	24.2	6.4		12.6	-	4.0	4
TMCLKL TMCLKL	HY/2012/08 HY/2012/08	2019-11-01 2019-11-01	Mid-flood Mid-flood	SR4(N2) SR4(N2)	11:10 11:10	Bottom Bottom	3	2	26.4 26.4	8.2	31.3 31.3	6.1 6.1	6.1	12.6 12.9	-	4.2 4.4	4
TMCLKL	HY/2012/08	2019-11-01	Mid-flood	IS8(N)	11:15	Surface	1	1	26.3	8.2	31.6	6.1		8.5		7.9	
TMCLKL	HY/2012/08	2019-11-01	Mid-flood	IS8(N)	11:15	Surface	1	2	26.3	8.1	31.6	6.0	1 . 1	8.2	1	7.4	1
TMCLKL	HY/2012/08	2019-11-01	Mid-flood	IS8(N)	11:15	Middle	2	1					6.1		8.6		7.9
TMCLKL	HY/2012/08	2019-11-01	Mid-flood	IS8(N)	11:15	Middle	2	2							8.0] /.9
TMCLKL	HY/2012/08	2019-11-01	Mid-flood	IS8(N)	11:15	Bottom	3	1	26.3	8.2	31.6	6.2	6.2	8.7	1	8.3	_
TMCLKL	HY/2012/08	2019-11-01	Mid-flood	IS8(N)	11:15	Bottom	3	2	26.3	8.2	31.6	6.2		8.8		7.9	
TMCLKL TMCLKL	HY/2012/08 HY/2012/08	2019-11-01 2019-11-01	Mid-flood Mid-flood	IS(Mf)9 IS(Mf)9	11:23 11:23	Surface Surface	1 1	2	26.3 26.3	8.2	31.6 31.6	5.9 5.9	-	15.4 14.7	-	12.9 13.3	-
TMCLKL	HY/2012/08	2019-11-01	Mid-flood	IS(Mf)9	11:23	Middle	2	1	20.3	0.1	31.0	5.9	5.9	14.7	1	15.5	1
TMCLKL	HY/2012/08	2019-11-01	Mid-flood	IS(Mf)9	11:23	Middle	2	2					1		16.8		13.3
TMCLKL	HY/2012/08	2019-11-01	Mid-flood	IS(Mf)9	11:23	Bottom	3	1	26.3	8.2	31.7	6.1	6.1	18.5	1	13.1	
TMCLKL	HY/2012/08	2019-11-01	Mid-flood	IS(Mf)9	11:23	Bottom	3	2	26.3	8.1	31.7	6.0	6.1	18.4]	13.7	
TMCLKL	HY/2012/08	2019-11-01	Mid-flood	IS(Mf)11	10:38	Surface	1	1	26.2	8.2	31.6	5.9		9.9	1	10.1	1
TMCLKL	HY/2012/08	2019-11-01		IS(Mf)11	10:38	Surface	1	2	26.2	8.1	31.6	5.9	5.9	9.0	4	10.9	1
TMCLKL	HY/2012/08 HY/2012/08	2019-11-01	Mid-flood	IS(Mf)11	10:38 10:38	Surface	2 2	2	26.1 26.1	8.2	31.6	5.9 5.9	-	12.8 12.7	12.7	11.5 11.7	11.2
TMCLKL TMCLKL	HY/2012/08 HY/2012/08	2019-11-01 2019-11-01	Mid-flood Mid-flood	IS(Mf)11 IS(Mf)11	10:38	Surface Surface	3	1	26.1	8.1	31.6 31.6	6.0		15.8	1	11.7	-
TMCLKL	HY/2012/08 HY/2012/08	2019-11-01	Mid-flood	IS(Mf)11	10:38	Surface	3	2	26.1	8.1	31.6	6.0	6.0	15.7	1	11.4	1
TMCLKL	HY/2012/08	2019-11-01		SR7	9:40	Surface	1	1	26.1	8.2	31.6	6.2		10.0		9.6	
TMCLKL	HY/2012/08	2019-11-01		SR7	9:40	Surface	1	2	26.1	8.1	31.6	6.1] 62	9.9]	9.9	
TMCLKL	HY/2012/08	2019-11-01		SR7	9:40	Surface	2	1					6.2		10.0		10.3
TMCLKL	HY/2012/08	2019-11-01		SR7	9:40	Surface	2	2							10.0		10.5
TMCLKL	HY/2012/08	2019-11-01		SR7	9:40	Surface	3	1	26.0	8.1	31.7	6.3	6.3	9.9	1	10.9	1
TMCLKL	HY/2012/08	2019-11-01		SR7	9:40	Surface	3	2	26.1	8.1	31.6	6.2		10.3		10.7	
TMCLKL TMCLKL	HY/2012/08 HY/2012/08	2019-11-01 2019-11-01	Mid-flood Mid-flood	IS17	10:47 10:47	Surface Surface	1	2	26.2 26.2	8.2	31.7 31.7	5.9 5.9	 	5.0 5.0	1	6.4 6.3	1
TMCLKL	HY/2012/08 HY/2012/08	2019-11-01		IS17	10:47	Surface	2	1	26.1	8.2	31.7	6.0	6.0	5.1	1	7.7	-
TMCLKL		2019-11-01		IS17	10:47	Surface	2	2	26.1	8.1	31.7	6.0	1	5.0	5.5	7.7	7.8
TMCLKL	HY/2012/08	2019-11-01		IS17	10:47	Surface	3	1	26.1	8.2	31.7	6.2	6.3	6.2]	9.6	1
TMCLKL		2019-11-01	Mid-flood	IS17	10:47	Surface	3	2	26.1	8.1	31.7	6.1	6.2	6.4]	9.2	

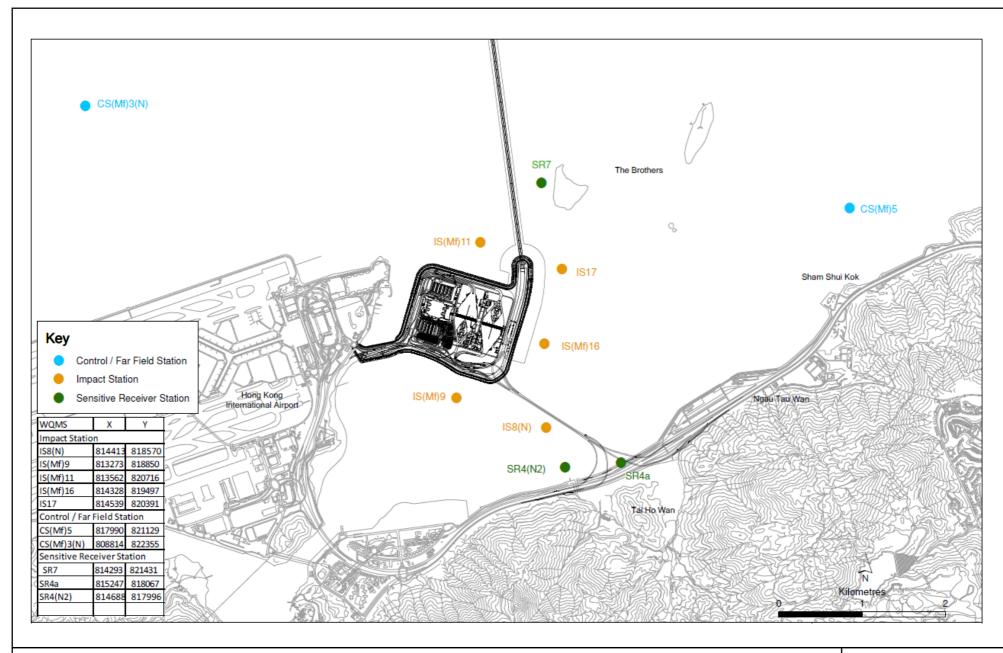


Figure 1





Appendix M

Waste Flow Table



Monthly Summary Waste Flow Table

Name of Department: HyD Contract No. / Works Order No.: HY/2012/08

Monthly Summary Waste Flow Table for November 2019 [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	2224.407	0.000	76.754	585.369	1562.284					
Jan-2019	299.831	0.000	53.419	215.427	30.985					
Feb-2019	133.335	0.000	46.021	67.707	19.607					
Mar-2019	120.224	0.000	50.455	20.964	48.805					
Apr-2019	130.329	0.000	58.956	0.000	71.373					
May-2019	67.355	0.000	51.297	0.000	16.058					
Jun-2019	4.134	0.000	0.000	0.000	4.134					
Half Year Sub-total	755.208	0.000	260.148	304.098	190.962					
Jul-2019	3.821	0.000	0.000	0.000	3.821					
Aug-2019	2.388	0.000	0.000	0.000	2.388					
Sep-2019	4.191	0.000	0.000	0.000	4.191					
Oct-2019	8.366	0.000	0.000	0.000	8.366					
Nov-2019	6.215	0.000	0.000	0.000	6.215					
Dec-2019										
Project Total Quantities	3004.606	0.000	336.902	889.467	1778.227					

	Actual Quantities of Non-inert Construction Waste Generated Monthly									
Month	Metals (in '000kg)		Paper/ cardboard packaging (in '000kg)		Plastics (see Note 3) (in '000kg)		Chemical Waste (in '000kg)		Others, e.g. General Refuse disposed at Landfill	
									(in '000ton)	
	generated	recycled	generated	recycled	generated	recycled	generated	Disposed	generated	
Sub-total	6763.82	6763.82	7.74	7.74	8.70	8.70	60.35	60.35	13.989	
Jan-2019	394.55	394.55	0.00	0.00	0.00	0.00	0.00	0.00	0.538	
Feb-2019	103.72	103.72	0.62	0.62	0.00	0.00	1.672	1.672	0.578	
Mar-2019	88.20	88.20	0.46	0.46	0.00	0.00	0.00	0.00	0.692	
Apr-2019	260.89	260.89	0.00	0.00	3.90	3.90	1.045	1.045	0.707	
May-2019	0.66	0.66	1.46	1.46	0.00	0.00	0.00	0.00	0.798	
Jun-2019	136.75	136.75	0.66	0.66	0.00	0.00	4.14	4.14	0.751	
Half Year Sub-total	984.77	984.77	3.20	3.20	3.90	3.90	6.857	6.857	4.064	
Jul-2019	444.37	444.37	1.20	1.20	0.00	0.00	0.00	0.00	0.730	
Aug-2019	505.93	505.93	0.00	0.00	1.58	1.58	3.80	3.80	0.703	
Sep-2019	397.10	397.10	0.60	0.60	1.62	1.62	8.00	8.00	0.737	
Oct-2019	523.05	523.05	0.00	0.00	1.04	1.04	5.80	5.80	0.754	
Nov-2019	271.73	271.73	1.90	1.90	0.00	0.00	1.00	1.00	0.525	
Dec-2019										
Project Total Quantities	9890.77	9890.77	14.64	14.64	16.84	16.84	85.807	85.807	21.502	



Forecast of Total Quantities of Construction and Demolition Materials to be Generated from the Contract*									
Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed of as Public Fill					
(in '000 ton)	(in '000 ton)	(in '000 ton)	(in '000 ton)	(in '000 ton)					
3200.000	0.000	350.000	1000.000	2000.000					

Forecast of Total Quantities of Construction and Demolition Materials to be Generated from the Contract*									
Metals	Paper/ cardboard packaging	Plastics (see Note 3)	Chemical Waste	General Refuse disposed of at Landfill					
(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000 ton)					
10500.00	20.00	20.00	100.00	30.000					

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.
- 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).