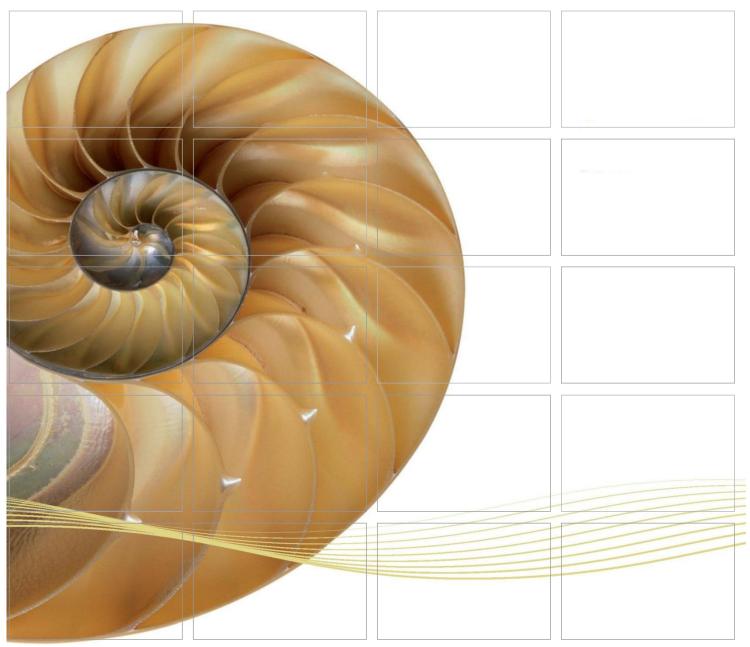
Report



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

Twenty-fifth Monthly Environmental Monitoring & Audit (EM&A) Report

10 December 2015

Environmental Resources Management

16/F, Berkshire House 25 Westlands Road Quarry Bay, Hong Kong Telephone 2271 3000 Facsimile 2723 5660

www.erm.com





Ref.: HYDHZMBEEM00 0 3661L.15

11 December 2015

AECOM

By Fax (2293 6300) and By Post

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

Attention: Messrs. Edwin Ching / Andy Westmoreland

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

Monthly EM&A Report for November 2015 (EP-354/2009/D)

Reference is made to the Monthly Environmental Monitoring and Audit (EM&A) Report (Nov. 2015) (ET's ref.: "0212330_25th Monthly EM&A_20151210.doc" dated 10 Dec. 2015) certified by the ET Leader and provided to us via e-mail on 10 Dec. 2015.

Please be informed that we have no adverse comments on the captioned monthly EM&A 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,

Transfer Room

F. C. Tsang

Independent Environmental Checker

Tuen Mun - Chek Lap Kok Link

C.C.

HyD - Mr. Stephen Chan (By Fax: 3188 6614) HyD - Mr. Matthew Fung (By Fax: 3188 6614) AECOM - Mr. Conrad Ng (By Fax: 3922 9797) ERM - Mr. Jovy Tam (By Fax: 2723 5660)

Dragages – Bouygues JV - Mr. C. F. Kwong (By Fax: 2293 7499)

Internal: DY, YH, LP, CL, ENPO Site

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

Twenty-fifth Monthly Environmental Monitoring & Audit (EM&A) Report

Document Code: 0212330_25th Monthly EM&A_20151210.doc

Environmental Resources Management

16/F, Berkshire House 25 Westlands Road Quarry Bay, Hong Kong Telephone: (852) 2271 3000 Facsimile: (852) 2723 5660 E-mail: post.hk@erm.com http://www.erm.com

Client:		Project No	o:			
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		Mr Craig	a Reid			
		Partner	<i>y</i> 11010			
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		Mr Jovy	Tam			
		ET Leade				
	25 th Monthly EM&A Report	VAR	JT	CAR	10/12/15	
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.		Internal OHSAS188 Certificate No.				
We disclaim any responsibility to the client and others in respect of any matters outside the scope of the above.			Confidential		001 : 2008 2 No. FS 32515	



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APPENDIX F EM&A MONITORING SCHEDULES

APPENDIX G IMPACT AIR QUALITY MONITORING RESULTS

APPENDIX H METEOROLOGICAL DATA

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APPENDIX J EVENT AND ACTION PLAN

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EXECUTIVE SUMMARY

Under *Contract No. HY/2012/08*, Dragages – Bouygues Joint Venture (DBJV) is commissioned by the Highways Department (HyD) to undertake the design and construction of the Northern Connection Sub-sea Tunnel Section of the Tuen Mun – Chek Lap Kok Link Project (TM-CLK Link Project) while AECOM Asia Company Limited was appointed by HyD as the Supervising Officer. For implementation of the environmental monitoring and audit (EM&A) programme under the Contract, ERM-Hong Kong, Limited (ERM) has been appointed as the Environmental Team (ET) in accordance with *Environmental Permit No. EP-354/2009/A*. Ramboll Environ Hong Kong Ltd. was employed by HyD as the Independent Environmental Checker (IEC) and Environmental Project Office (ENPO). Subsequent applications for variation of environmental permits (VEP), *EP-354/2009/B*, *EP-354/2009/C* and *EP-354/2009/D*, were granted on 28 January 2014, 10 December 2014 and 13 March 2015, respectively.

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

This is the Twenty-fifth Monthly EM&A report presenting the EM&A works carried out during the period from 1 to 30 November 2015 for the *Contract No. HY/2012/08 Northern Connection Sub-sea Tunnel Section* (the "Project") in accordance with the Updated EM&A Manual of the TM-CLK Link Project. As informed by the Contractor, major activities in the reporting period included:

Land-based Works

- Box Culvert Extension at Works Area Portion N-A;
- Construction of capping beam and base slab for Ventilation Shaft at Works Area Portion N-C; and
- TBM Tunnel Works at Works Area Portion N-C.

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

Impact Dolphin Monitoring 2 sessions

Joint Environmental Site Inspection 4 sessions

Implementation of Marine Mammal Exclusion Zone

There was no dredging, reclamation or marine sheet piling works in open waters during this reporting period. Thus, Passive Acoustic Monitoring (PAM) and the day-time monitoring of Dolphin Exclusion Zone (DEZ) by dolphin observers were not in effect during the reporting period.

Summary of Breaches of Action/Limit Levels

Breaches of Action and Limit Levels for Air Quality

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

Breaches of Action and Limit Levels for Dolphin Monitoring

Whilst two (2) Action Level exceedances were observed for the quarterly dolphin monitoring data between September 2015 and November 2015, 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 reporting change required in the reporting period.

Upcoming Works for the Next Reporting Month

Works to be undertaken in the next monitoring period of December 2015 include the following:

Land-based Works

- Box Culvert Extension at Works Area Portion N-A;
- Construction of capping beam and base slab for Ventilation Shaft at Works Area Portion N-C; and
- TBM Tunnel Works at Works Area Portion N-C.

Future Key Issues

Potential environmental impacts arising from the above upcoming construction activities in the next reporting month of December 2015 are expected to be mainly associated with dust, marine ecology and waste management.

INTRODUCTION

1.1 BACKGROUND

1

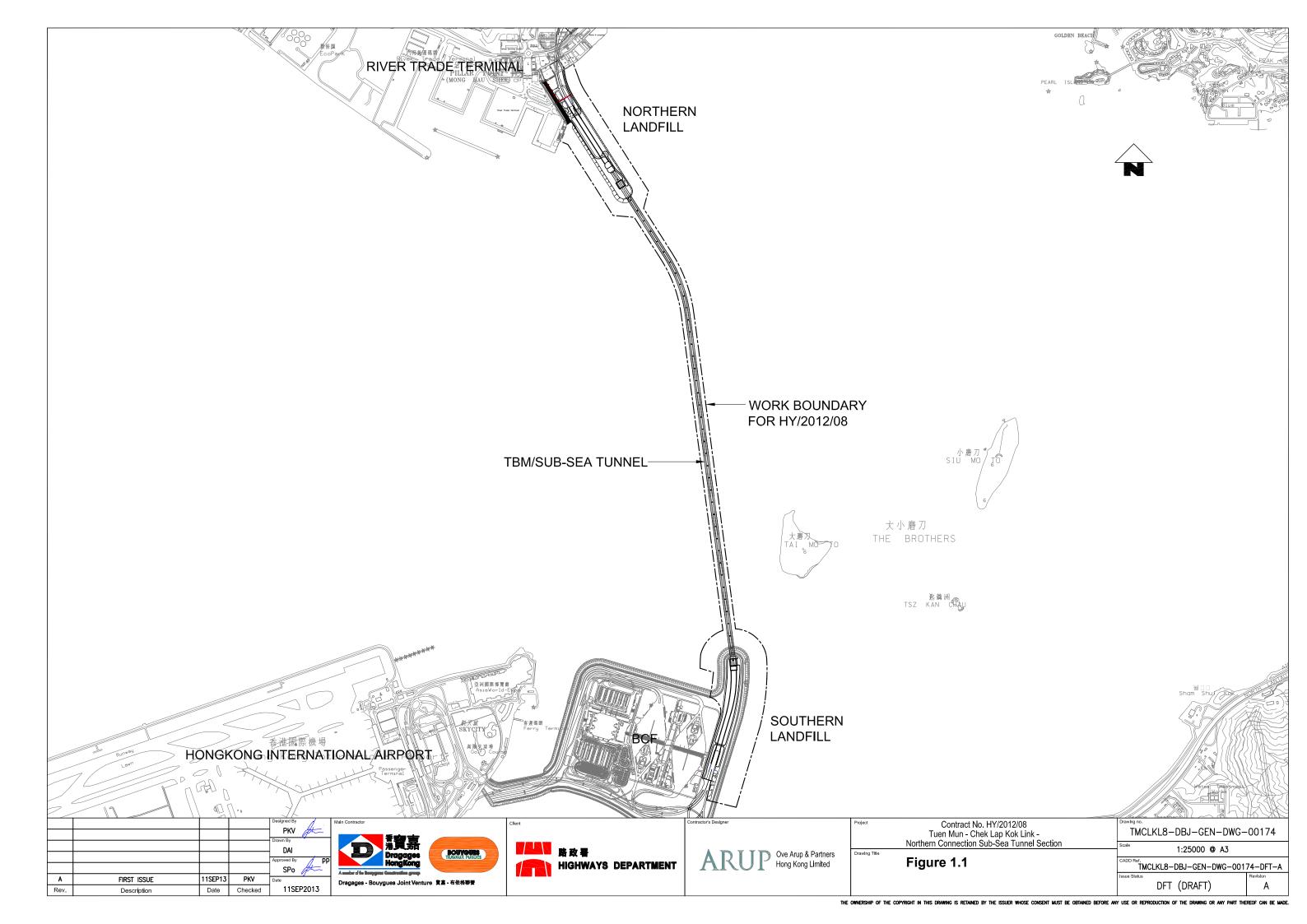
According to the findings of the Northwest New Territories (NWNT) Traffic and Infrastructure Review conducted by the Transport Department, Tuen Mun Road, Ting Kau Bridge, Lantau Link and North Lantau Highway would be operating beyond capacity after 2016. This forecast has been based on the estimated 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-354/2009A) was issued on 8 December 2010. Subsequent applications for variation of environmental permits (VEPs), *EP-354/2009/B*, *EP-354/2009/C* and *EP-354/2009/D*, were granted on 28 January 2014, 10 December 2014 and 13 March 2015, respectively.

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

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

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



1.2 Scope of Report

This is the Twenty-fifth 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 2015.

1.3 ORGANIZATION STRUCTURE

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

Table 1.1 Contact Information of Key Personnel

Party	Position	Name	Telephone	Fax
Highways Department	Engr 16/HZMB	Kenneth Lee	2762 4996	3188 6614
SOR (AECOM Asia Company	Chief Resident Engineer	Edwin Ching	2293 6388	2293 6300
Limited)	zaganeer	Andrew Westmoreland	2293 6360	2293 6300
ENPO / IEC (Ramboll Environ Hong	ENPO Leader	Y.H. Hui	3547 2133	3465 2899
Kong Ltd.)	IEC	Dr. F.C. Tsang	3547 2134	3465 2899
Contractor (Dragages – Bouygues Joint Venture)	Environmental Manager	C.F. Kwong	2293 7322	2293 7499
jour verture)	Environmental Officer	Bryan Lee	2293 7323	2293 7499
	24-hour complaint hotline	Rachel Lam	2293 7330	
ET (ERM-HK)	ET Leader	Jovy Tam	2271 3113	2723 5660

1.4 SUMMARY OF CONSTRUCTION WORKS

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

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

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

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

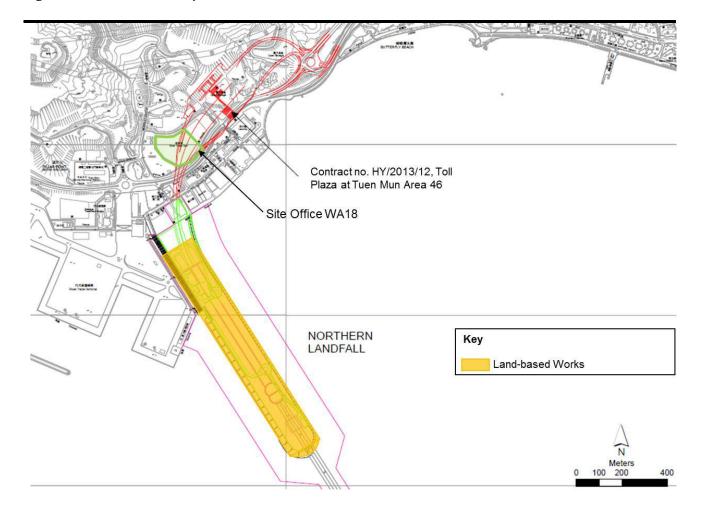
Table 1.2 Summary of Construction Activities Undertaken during the Reporting Period

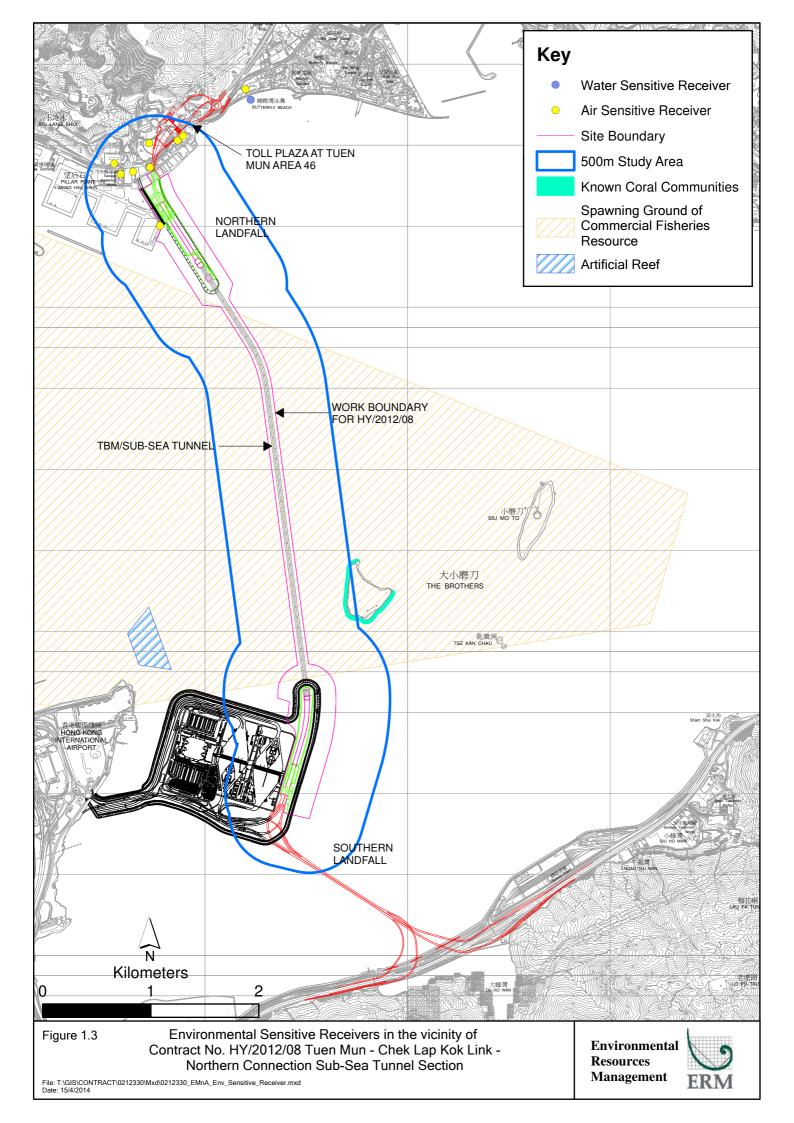
Construction Activities Undertaken

Land-based Works

- Box Culvert Extension at Works Area Portion N-A;
- Construction of capping beam and base slab for Ventilation Shaft at Works Area Portion N-C; and
- TBM Tunnel Works at Works Area Portion N-C.

Figure 1.2 Locations of Construction Activities - November 2015





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 2015 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 2015			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	$\mu g/m^3$), 3 times in every 3 days
		Park	uses	 24-hour Total Suspended
				Particulates (24-hour TSP,
				$\mu g/m^3$), daily for 24-hour in
				every 3 days

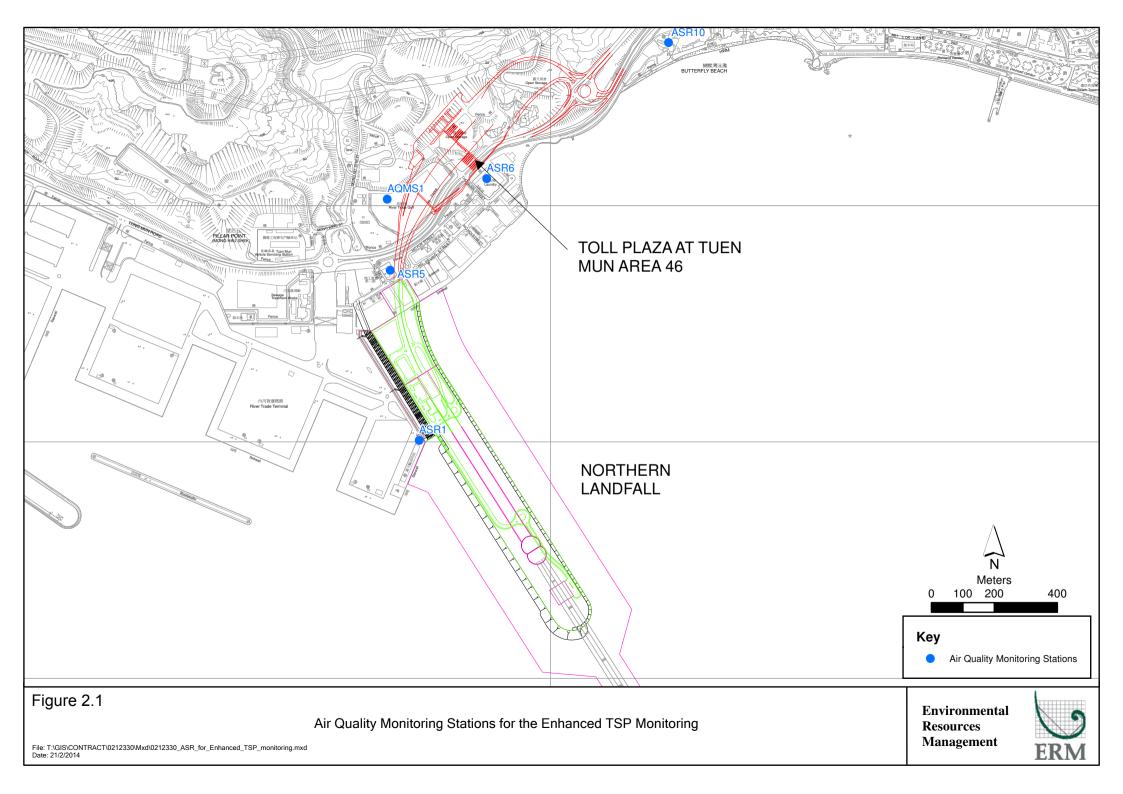


Table 2.2 Air Quality Monitoring Equipment

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: Weather Wizard III (S/N: WE90911A30)
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 J*.

2.1.3 Monitoring Schedule for the Reporting Month

The schedule for air quality monitoring in November 2015 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	Limit Level
			(μg/m³)	$(\mu g/m^3)$
ASR1	152	70 - 281	331	500
ASR5	176	83 - 293	340	500
AQMS1	104	66 - 151	335	500
ASR6	125	52 - 279	338	500
ASR10	83	53 - 152	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	87	67 - 125	213	260
ASR5	93	71 - 118	238	260
AQMS1	72	59 - 85	213	260
ASR6	75	62 - 83	238	260
ASR10	65	55 - 80	214	260

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

A total of ten monitoring events were undertaken in which no Action or Limit Level exceedances of 1-hr TSP were recorded in this reporting month. No Action or Limit Level exceedances for 24-hr TSP were record.

Meteorological information collected at the ASR5, including wind speed and wind direction, is provided in *Appendix H*.

2.2 WATER QUALITY MONITORING

As informed by the Contractor, Phase I Reclamation works for the Northern Landfall was substantially completed in December 2014, a proposal letter was sent to EPD on 21 May 2015 to seek approval for the temporary suspension of Water Quality Monitoring. Subsequently, a letter from EPD on 5 June 2015 stated that they have no strong objection to the temporary suspension of the water quality monitoring. Water Quality Monitoring was suspended from 6 June 2015 effectively and will resume when Phase II Reclamation commences in the fourth quarter of 2016 tentatively.

2.3 DOLPHIN MONITORING

2.3.1 Monitoring Requirements

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

2.3.2 Monitoring Equipment

Table 2.5 summarises the equipment used for the impact dolphin monitoring.

Table 2.5 Dolphin Monitoring Equipment

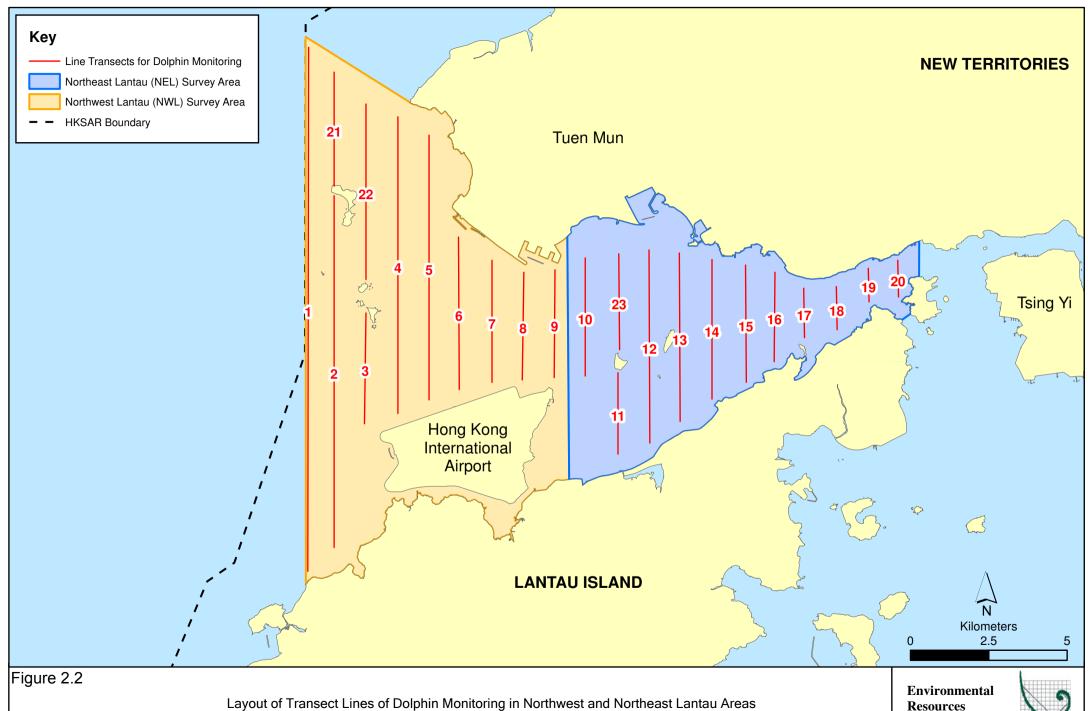
Equipment	Model
Global Positioning System (GPS)	Garmin 18X-PC
	Geo One Phottix
Camera	Nikon D90 300m 2.8D fixed focus
	Nikon D90 20-300m zoom lens
Laser Binocular	Infinitor LRF 1000
Marine Binocular	Bushell 7 x 50 marine binocular with compass and reticules
Vessel for Monitoring	65 foot single engine 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 2.2*. The co-ordinates of all transect lines are shown in *Table 2.6* below.



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Resources Management



 Table 2.6
 Impact Dolphin Monitoring Line Transect Co-ordinates

	Line No.	Easting	Northing		Line No.	Easting	Northing
1	Start Point	804671	815456	13	Start Point	816506	819480
1	End Point	804671	831404	13	End Point	816506	824859
2	Start Point	805475	815913	14	Start Point	817537	820220
2	End Point	805477	826654	14	End Point	817537	824613
3	Start Point	806464	819435	15	Start Point	818568	820735
3	End Point	806464	822911	15	End Point	818568	824433
4	Start Point	807518	819771	16	Start Point	819532	821420
4	End Point	807518	829230	16	End Point	819532	824209
5	Start Point	808504	820220	17	Start Point	820451	822125
5	End Point	808504	828602	17	End Point	820451	823671
6	Start Point	809490	820466	18	Start Point	821504	822371
6	End Point	809490	825352	18	End Point	821504	823761
7	Start Point	810499	820880	19	Start Point	822513	823268
7	End Point	810499	824613	19	End Point	822513	824321
8	Start Point	811508	821123	20	Start Point	823477	823402
8	End Point	811508	824254	20	End Point	823477	824613
9	Start Point	812516	821303	21	Start Point	805476	827081
9	End Point	812516	824254	21	End Point	805476	830562
10	Start Point	813525	820872	22	Start Point	806464	824033
10	End Point	813525	824657	22	End Point	806464	829598
11	Start Point	814556	818853	23	Start Point	814559	821739
11	End Point	814556	820992	23	End Point	814559	824768
12	Start Point	815542	818807				
12	End Point	815542	824882				

2.3.5 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 J*.

2.3.6 *Monitoring Schedule for the Reporting Month*

Dolphin monitoring was carried out on 2, 6, 10 and 16 of November 2015. The dolphin monitoring schedule for the reporting month is shown in *Appendix F*.

2.3.7 Results & Observations

A total of 300.43 km of survey effort was collected, with 86.0% of the total survey effort being conducted under favourable weather conditions (ie Beaufort Sea State 3 or below with good visibility) in November 2015. Amongst the two areas, 115.20 km and 185.23 km of survey effort were collected from NEL and NWL survey areas, respectively. The total survey effort conducted on primary and secondary lines were 218.74 km and 81.69 km, respectively. The survey efforts are summarized in *Appendix I*.

A total of 4 groups of fourteen Chinese White Dolphin sightings were recorded during the two sets of surveys in November 2015. All four sightings were made in NWL during the survey in November 2015. All four sightings were made on primary lines during on-effort search. None of the dolphin groups was associated with operating fishing vessels.

None of the sightings was made in the vicinity of the TM-CLKL Northern Connection Sub-sea Tunnel Section. The distribution of dolphin sightings during the reporting month is shown in *Figure 2.3*.

Encounter rates of Chinese White Dolphins are deduced from the survey effort and on-effort sighting data made under favourable conditions (Beaufort 3 or below with good visibility) in November 2015 with the results present in *Tables 2.7* and *2.8*.

Table 2.7 Individual Survey Event Encounter Rates

		Encounter rate (STG) (no. of on-effort dolphin sightings per 100 km of survey effort)	Encounter rate (ANI) (no. of dolphins from all oneffort sightings per 100 km of survey effort)
		Primary Lines Only	Primary Lines Only
NEL	Set 1: November 2 nd /6 th	0.0	0.0
NEL	Set 2: November 10 th /16 th	0.0	0.0
NWL	Set 1: November 2 nd /6 th	3.8	15.4
INVVL	Set 2: November 10 th /16 th	1.7	1.7

Note: Dolphin Encounter Rates are deduced from the Two Sets of Surveys (Two Surveys in Each Set) in November 2015 in Northeast (NEL) and Northwest Lantau (NWL)

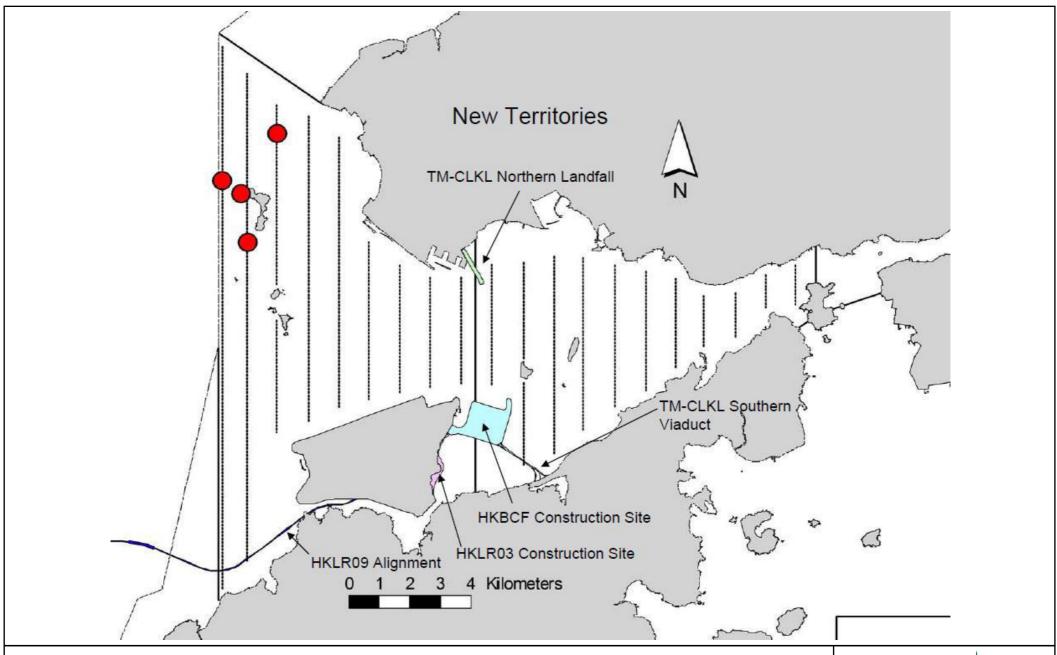


Figure 2.3

HY/2012/08 TM-CLKL Northern Connection Sub-sea Tunnel Section The distribution of dolphin sightings during the reporting period (Source: Adopted from HKLR03 Monitoring Survey in November 2015)

Environmental Resources Management



Table 2.8 Monthly Average Encounter Rates

	Encounter rate (STG) (no. of on-effort dolphin sightings per 100 km of survey effort)		(no. of dolphi	rate (ANI) ns from all on- s per 100 km of effort)
	Primary Both Primary Lines Only and Secondary Lines		Primary Lines Only	Both Primary and Secondary Lines
Northeast Lantau	0.0	0.0	0.0	0.0
Northwest Lantau	2.7	2.1	8.2	6.3

Note: Overall dolphin encounter rates (sightings per 100 km of survey effort) from all four surveys are conducted in November 2015 on primary lines only as well as both primary lines and secondary lines in Northeast and Northwest Lantau.

Whilst two (2) Action Level exceedances were observed for the quarterly dolphin monitoring data between September 2015 and November 2015, no unacceptable impact from the construction activities of the Northern Connection Sub-sea Tunnel Section on Chinese White Dolphins was noticeable from general observations during the dolphin monitoring in this reporting month.

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

2.3.8 Implementation of Marine Mammal Exclusion Zone

There was no dredging, reclamation or marine sheet piling works in open waters during this reporting period. Thus, Passive Acoustic Monitoring (PAM) and the day-time monitoring of Dolphin Exclusion Zone (DEZ) by dolphin observers were not in effect during the reporting period.

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 4, 11, 18 and 25 November 2015.

Key observations and recommendations during the site inspections in this reporting period are summarized in *Table 2.9*.

Table 2.9 Specific Observations and Recommendations during the Weekly Site Inspection in this Reporting Month

Inspection Date	Observations	Recommendations/ Remarks
4 November 2015	 Works Area – Portion N-A Chemical container should be placed in chemical storage area. 	 Works Area - Portion N-A The Contractor was reminded to place the chemical container in chemical storage area.
11 November 2015	 Works Area - Portion N-A Cement bags should be covered. Mortar should be cleared to avoid runoff. 	 Works Area - Portion N-A The Contractor was reminded to cover the cement bags. The Contractor was reminded to clear the mortar to avoid runoff.
18 November 2015	 Works Area - Portion N-C Water spraying should be applied more frequently during dry condition. 	 Works Area - Portion N-C The Contractor was reminded to apply water spraying more frequently during dry condition.
25 November 2015	Works Area - Portion N-CAccumulated general refuse should be cleared.	Works Area - Portion N-CThe Contractor was reminded to clear the accumulated general refuse.

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

2.5 WASTE MANAGEMENT STATUS

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

Wastes generated during this reporting period include mainly construction wastes (inert and non-inert) and recyclable materials. Reference has been made to the waste flow table prepared by the Contractor (*Appendix L*). The quantities of different types of wastes are summarized in *Table 2.10*.

Table 2.10 Quantities of Different Waste Generated in the Reporting Month

Month/Year		Imported Fill (tonnes)	Inert Construction	Non-inert Construction	Recyclable Materials (c)	Chemical Wastes (kg)	Marine Sediment (m³)	
	Waste (a) (tonnes)		Waste Re- used (tonnes)	Waste (b) (tonnes)	(kg)		Category L	Category M (M _p & M _f)
November 2015	11,578	0	0	93	6,150	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 2.11* below.

Table 2.11 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 supersede EP-354/2009/C
Construction Dust Notification	363510	19 August 2013	Throughout the Contract	DBJV	-
Chemical Waste Registration	5213-422-D2516-01	10 September 2013	Throughout the Contract	DBJV	-
Construction Waste Disposal Account	7018108	28 August 2013	Throughout the Contract	DBJV	Waste disposal in Contract No. HY/2012/08
Waste Water Discharge License	WT00017707-2013	18 November 2013	30 November 2018	DBJV	For site WA18
Waste Water Discharge License	WT00019248-2014	5 June 2014	30 June 2019	DBJV	For site Portion N6 and Reclamation Area E
Construction Noise Permit	GW-RW0350-15	14 July 2015	13 December 2015	DBJV	For site WA23
Construction Noise Permit	GW-RW0474-15	29 September 2015	28 March 2016	DBJV	For Portion N6
Construction Noise Permit	GW-RW0512-15	20 October 2015	19 January 2016	DBJV	For Slurry Treatment Plant and TBM Tunnel Works at Northern Landfall
Construction Noise Permit	GW-RW1007-15	16 September 2015	13 March 2016	DBJV	For GI Works at Southern Landfall

Notes:

HyD = Highways Department

DBJV = Dragages - Bouygues Joint Venture

VEP = Variation of Environmental Permit

2.7 IMPLEMENTATION STATUS OF ENVIRONMENTAL MITIGATION MEASURES

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

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

2.8 SUMMARY OF EXCEEDANCES OF THE ENVIRONMENTAL QUALITY PERFORMANCE LIMIT

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

Whilst two (2) Action Level exceedances were observed for the quarterly dolphin monitoring data between September 2015 and November 2015, 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.

Cumulative statistics are provided in *Appendix K*.

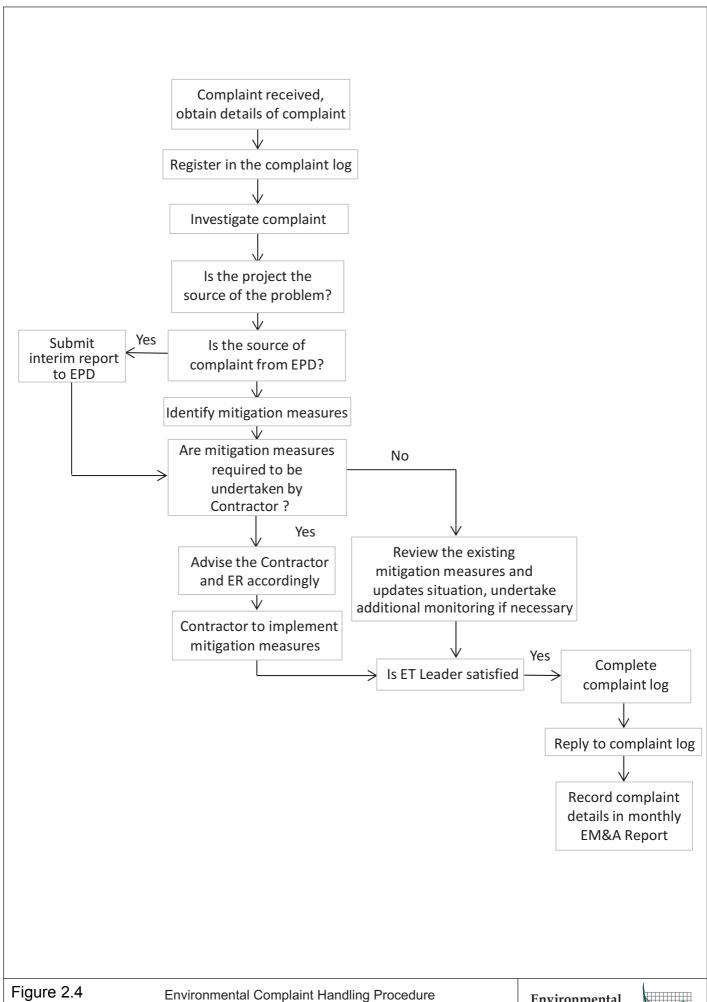
2.9 SUMMARY OF COMPLAINTS, NOTIFICATION OF SUMMONS AND SUCCESSFUL PROSECUTIONS

The Environmental Complaint Handling Procedure is provided in Figure 2.4.

No environmental complaint was received in the reporting period.

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

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



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 Project in December 2015 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

- Box Culvert Extension at Works Area Portion N-A;
- Construction of capping beam and base slab for Ventilation Shaft at Works Area Portion N-C; and
- TBM Tunnel Works at Works Area Portion N-C.

3.2 KEY ISSUES FOR THE COMING MONTH

Potential environmental impacts arising from the above upcoming construction activities in the next reporting month of December 2015 are mainly associated with dust, marine ecology and waste management issues.

3.3 MONITORING SCHEDULE FOR THE COMING MONTH

The tentative schedule for environmental monitoring in December 2015 is provided in *Appendix F*.

4 CONCLUSIONS AND RECOMMENDATIONS

4.1 CONCLUSIONS

This Twenty-fifth Monthly EM&A Report presents the findings of the EM&A activities undertaken during the period from 1 to 30 November 2015, 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) and dolphin monitoring were carried out in this reporting month. No Action Level or Limit Level exceedances were recorded in the air quality monitoring of this reporting month.

A total of four (4) groups of fourteen (14) Chinese White Dolphin sightings were recorded during the two sets of surveys in November 2015. All seven sightings were made in NWL during the two sets of surveys in November 2015. All four sightings were made on primary lines during on-effort search. None of the dolphin groups was associated with operating fishing vessels. Whilst two (2) Action Level exceedances were observed for the quarterly dolphin monitoring data between September 2015 and November 2015, no unacceptable impact from the construction activities of the TM-CLKL Northern Connection Sub-sea Tunnel Section on Chinese White Dolphins was noticeable from general observations during the dolphin monitoring in this reporting month.

Environmental site inspection was carried out four (4) times in November 2015. Recommendations on remedial actions recommended for the deficiencies identified during the site audits were properly implemented by the Contractor.

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

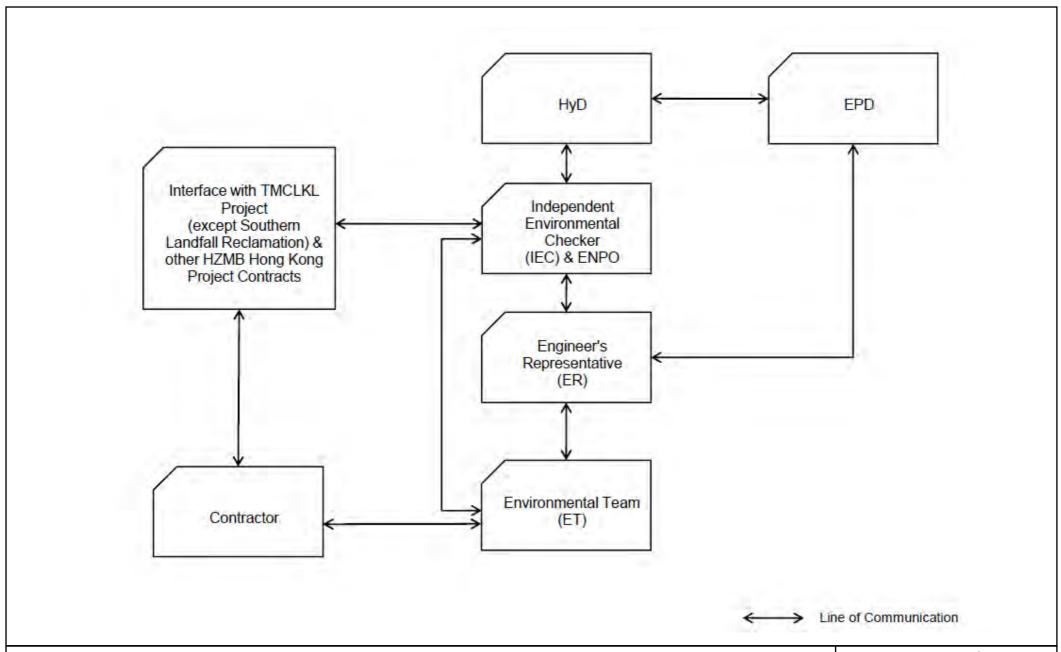
No environmental complaint was received during the reporting period.

No summons/ prosecution was received during the reporting period.

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

Appendix A

Project Organization for Environmental Works



Appendix A1

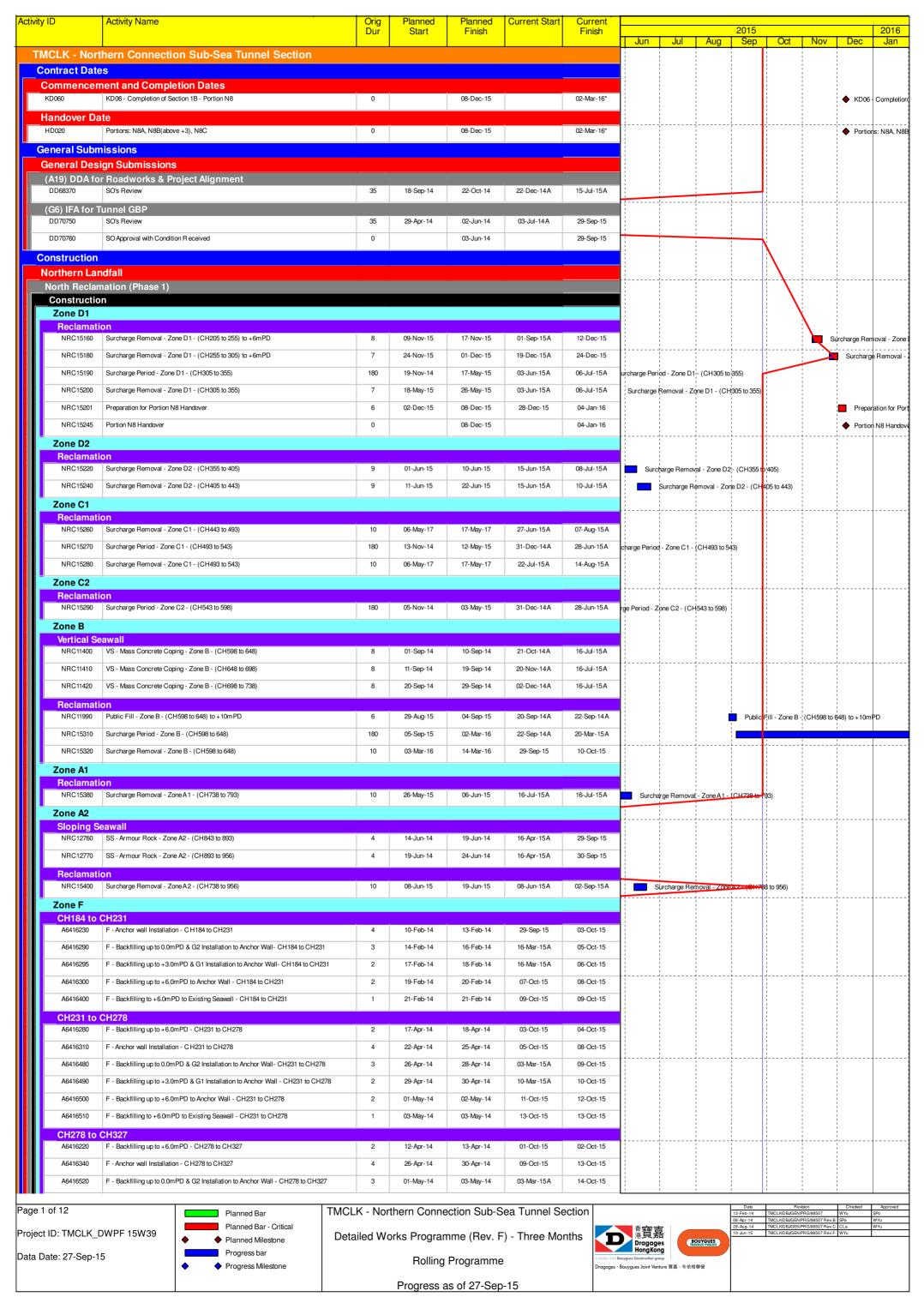
Contract No. HY/2012/08 Northern Connection Sub-sea Tunnel Section Project Organization

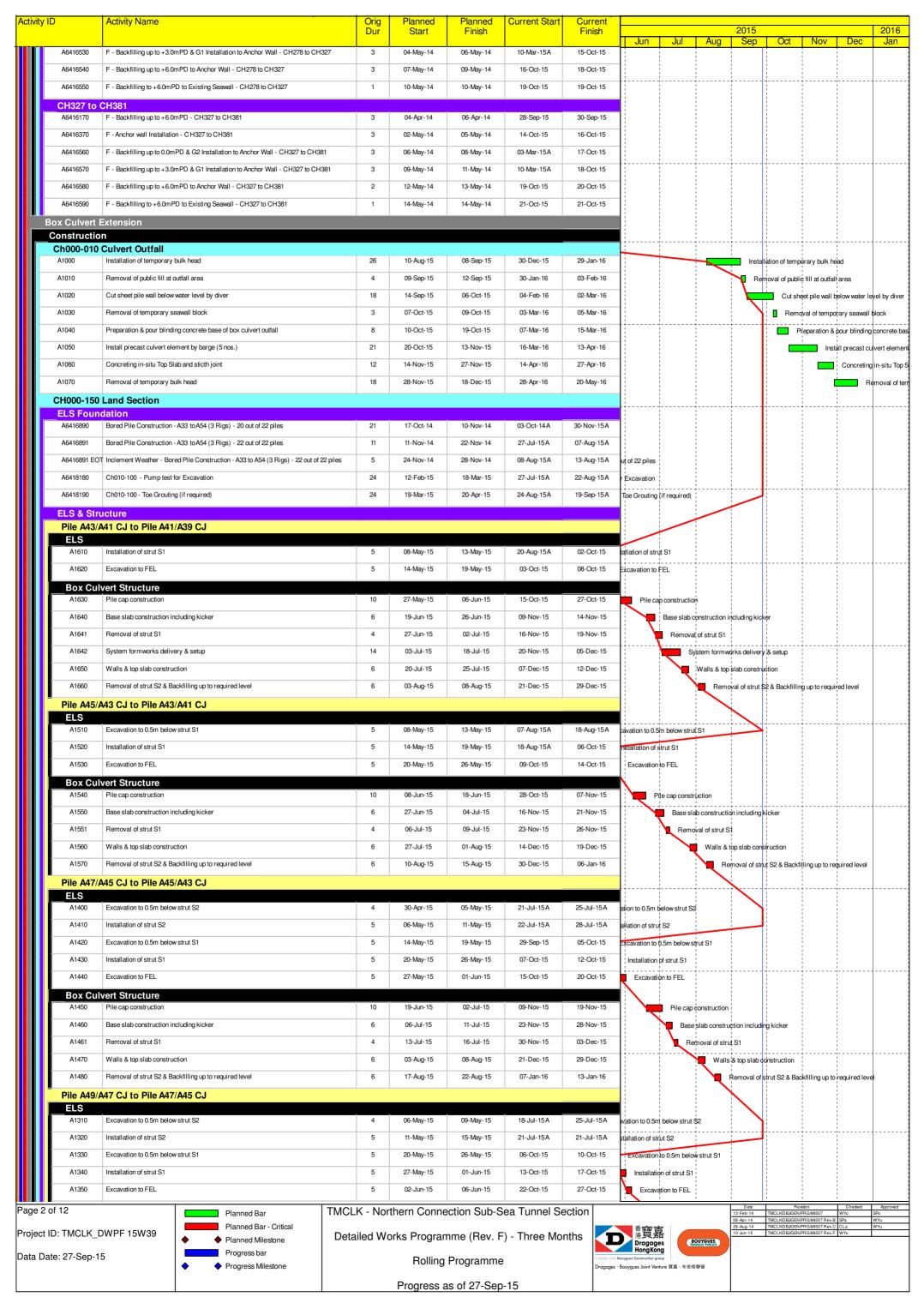
Environmental Resources Management

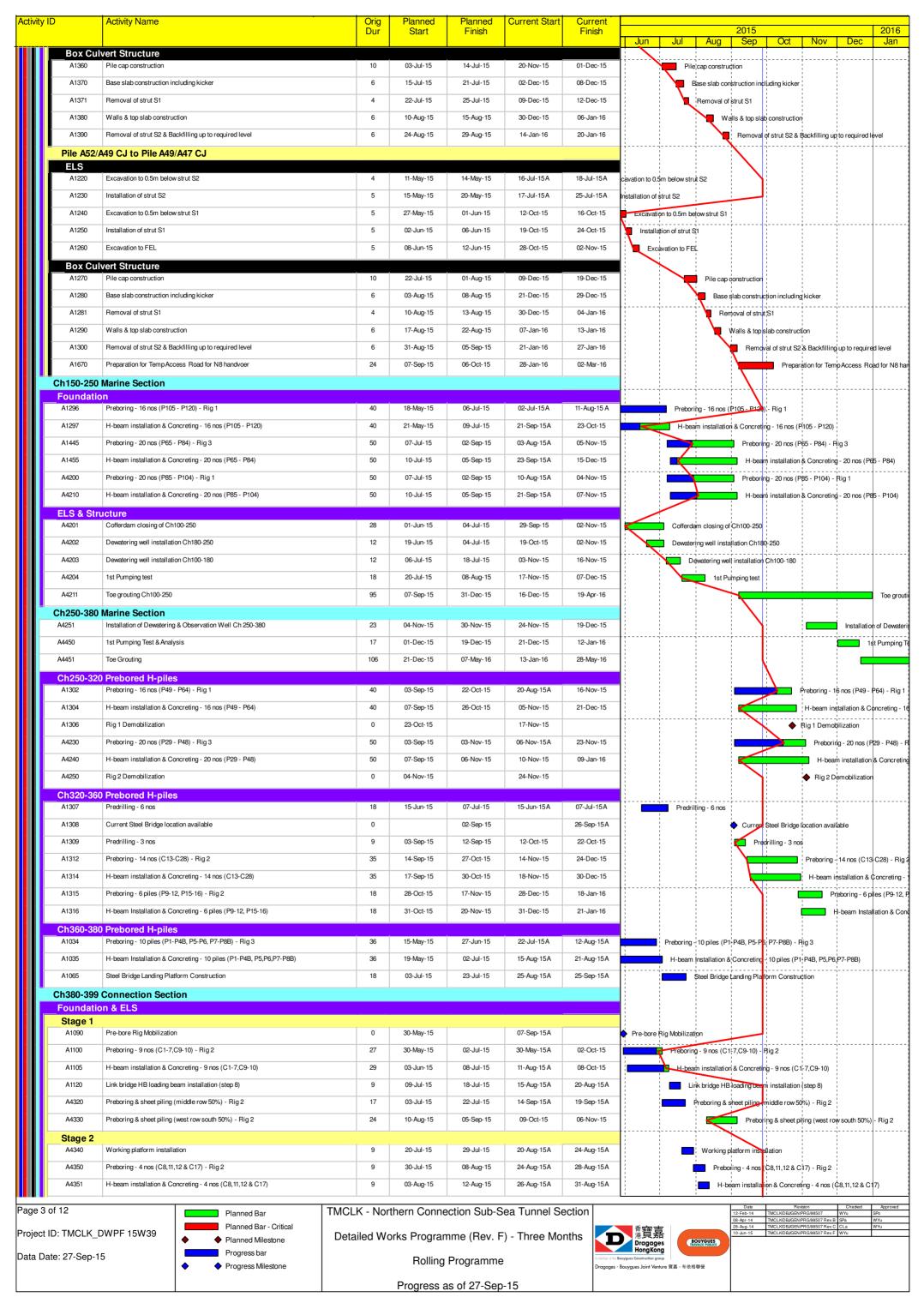


Appendix B

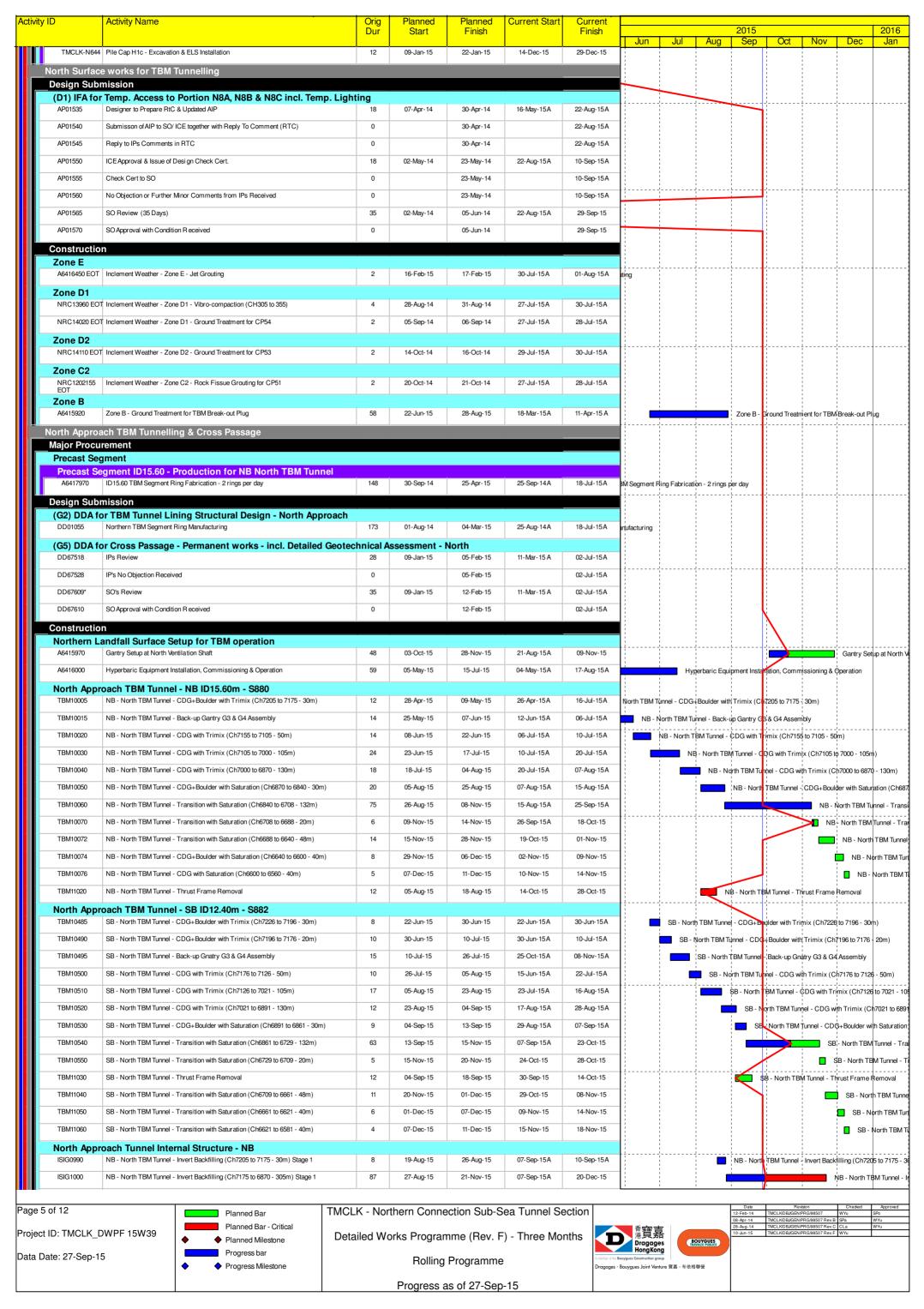
Construction Programme





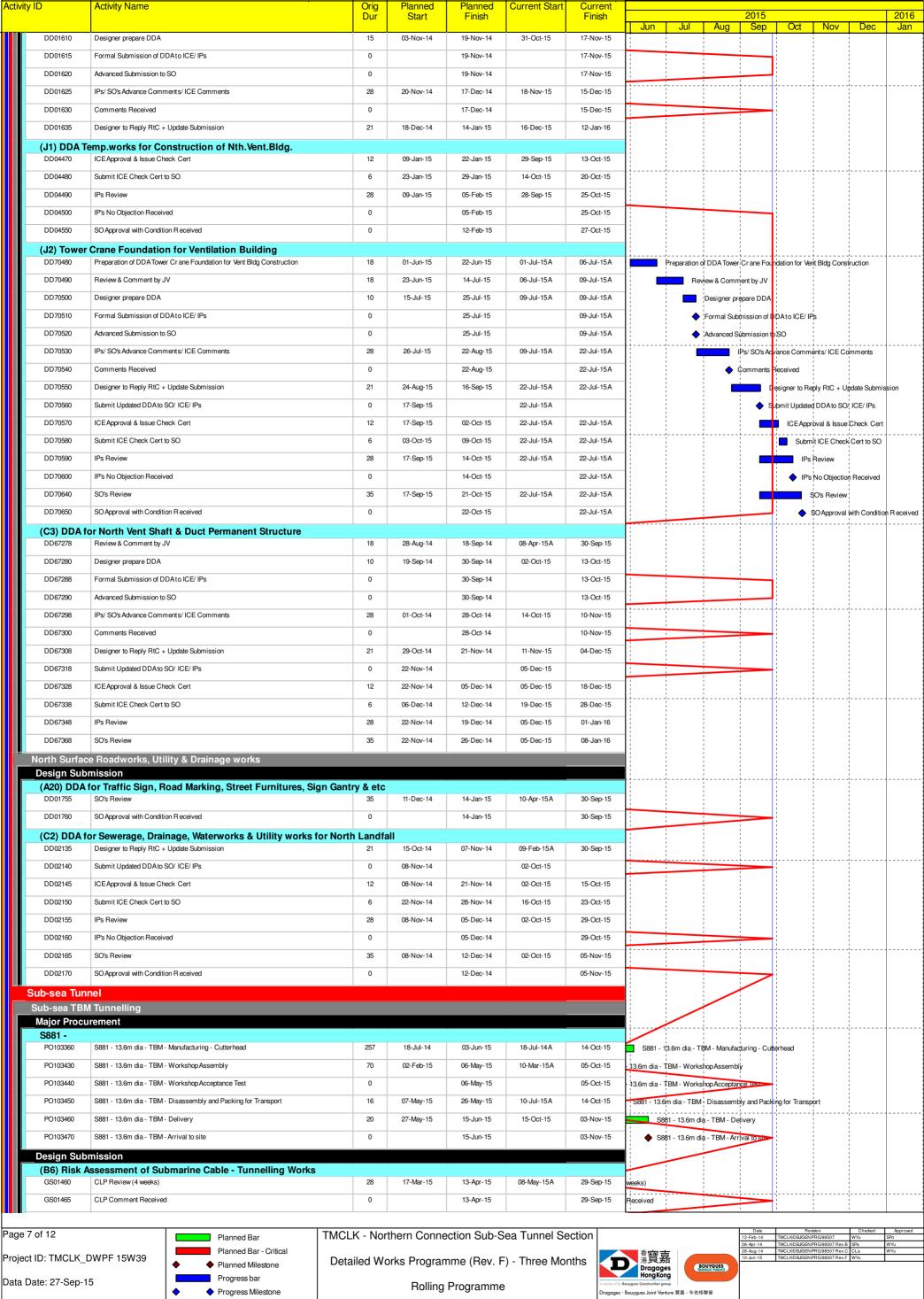


	Activity Name	Orig Dur	Planned Start	Planned Finish	Current Start	Current Finish	Jun Jul	201 Aug Se		Nov	Dec	2
A4360	1st Relocation of working platform	6	13-Aug-15	19-Aug-15	01-Sep-15A	01-Sep-15A	Juli Juli		ation of working plat		D60	۲
A4361	2015/16 Dry Season	0	01-Nov-15		01-Nov-15*				•	2015/16 Dr	ry Season	1
A4370	Install concrete blocks to support working platform	6	02-Nov-15	07-Nov-15	02-Nov-15	07-Nov-15				Install co	oncrete bloc	cks t
A4380	2nd Relocation of working platform	6	09-Nov-15	14-Nov-15	09-Nov-15	14-Nov-15				2nd R	Relocation of	of wo
A4390	Preboring - 4 nos (C13-C16) - Rig 2	12	16-Nov-15	28-Nov-15	05-Jan-16	18-Jan-16					Preboring -	41
A4400	H-beam installation & Concreting - 4 nos (C13-C16)	12	19-Nov-15	02-Dec-15	08-Jan-16	21-Jan-16					H-beam i	inst
A4410	Preboring for sheet piling (middle row north 50%) - Rig 2	18	03-Dec-15	23-Dec-15	22-Jan-16	18-Feb-16	 				F	Pre
A4411	Preboring for sheet piling (west row north 50%) - Rig 2	24	24-Dec-15	23-Jan-16	19-Feb-16	17-Mar-16						
	ess route for CKS											Г
A1185	Steel Bridge - Preparation for dismantling	24	23-Jul-15	19-Aug-15	14-Sep-15A	25-Sep-15A		Steel Brid	ge Preparation for	dismantling		
A4420	Available for steel bridge relocation	0	20-Aug-15		26-Sep-15A			Available	for steel bridge rela	ocation		
A4430	Steel bridge relocation	12	20-Aug-15	02-Sep-15	26-Sep-15A	10-Oct-15	-	<u></u>	el bridge relocation			
A4431	Make good for Landside Roadworks	24	03-Sep-15	02-Oct-15	18-Sep-15A	23-Sep-15A		J. Ole		l for Landside	Doodynark	
		24	03-3ер-13	02-001-13	10-3ер-13А	25-36p-13A			Make good	rior Landsige	e Hoadworks	5
Miscellaneo	ous works n Manhole (IM)									1		
A6418270	Inspection Manhole IM-01 to IM-04 & backfilling to +6.0mPD	12	29-Sep-15	13-Oct-15	25-Feb-16	09-Mar-16			Inspec	tion Manhole	e IM-01 to IM	vI-0
Stop Log (Opening (SLO)						- 					
	SLO-01 to SLO-05 & backfilling to +6.0mPD	24	14-Oct-15	11-Nov-15	10-Mar-16	11-Apr-16				SLO 10	1 to SLO-05	5 &
Balance Ho	ole (BH)											
A6418330	BH-01 to BH-03 & backfilling to +6.0mPD	18	07-Sep-15	26-Sep-15	28-Jan-16	24-Feb-16		(BH-01 to BH-	-03 & backfill	ling to +6.0n	mР
orth Launch	hing Shaft											ļ.,
esign Subr								`				
(C1) DDA fo DD70810	or North Approach Ramp Permanent Structure Designer to Reply RtC + Update Submission	15	06-Oct-14	22-Oct-14	28-May-15A	27-Aug-15A			\			
DD70820	Submit Updated DDA to SO/ ICE/ IPs	0	23-Oct-14	1	27-Aug-15A							
DD70830	·	18		12 Nov 14		27-Aug 15 A						
	ICEApproval & Issue Check Cert		23-Oct-14	12-Nov-14	20-Aug-15A	27-Aug-15A	<u> </u>					
DD70840	Submit ICE Check Cert to SO	0		12-Nov-14		27-Aug-15A			-			
DD70850	IPs Review	28	23-Oct-14	19-Nov-14	27-Aug-15A	01-Oct-15						
DD70860	IP's No Objection Received	0		19-Nov-14		01-Oct-15			-			
DD70870	SO's Review	35	23-Oct-14	26-Nov-14	27-Aug-15A	03-Oct-15						
DD70880	SO Approval with Condition R eceived	0		26-Nov-14		03-Oct-15			-			
orth Ventilat	tion Shaft											
Construction												
	ilation Shaft Excavation & Base Slab		45.4 45	45.445	0414-454	00 11 15 4						
A6415810	A- Capping Beam Installation (+6.0mPD)	0	15-Apr-15	15-Apr-15	04-May-15A	02-Jul-15A	am Installation (+6.0m					
A6415855	A - Vent Shaft Excavation (-12.5 to -20.0mPD) - Fill/MD/ALLUVIUM	17	15-Jun-15	06-Jul-15	15-Jun-15A	06-Jul-15A	Α-	Vent Shaft Excavation (-				
A6415860	A - Vent Shaft Excavation (-20.0 to -32.0mPD) - CDG	27	07-Jul-15	06-Aug-15	10-Jun-15A	20-Jun-15A		A- Vent Shaft I	Excavation (-20.0 to	-32.0mPD) -	CDG	
A6415870	A- Ring Beam Installation (-32.0mPD)	0	07-Aug-15	07-Aug-15	21-Jun-15A	24-Jun-15A		A- Ring Beam	Installation (-32.0m	nPD)		
A6415875	A- Vent Shaft Excavation (-32.0 to -40.0mPD) - CDG	18	07-Aug-15	27-Aug-15	18-Aug-15A	07-Sep-15A		A- Ve	nt Shaft Excavation	(-32.0 to -40.0	0mPD) - C	DO
A6415880	A - Vent Shaft Excavation (-40.0mPD to -42.0mPD) - Rock	29	28-Aug-15	02-Oct-15	24-Jun-15A	17-Jul-15A		<u> </u>	A - Vent Sh	naft Excavatio	on (-40.0mF	PD
A6415890	A - Vent Shaft Bottom Base Slab for TBM Re-launching	48	03-Oct-15	28-Nov-15	17-Jul-15A	14-Oct-15					A - Vent Sh	naft
A6415990	A - Tympanum construction for TBM break-in/out	36	10-Oct-15	21-Nov-15	14-Jul-15A	17-Oct-15	<u> </u>				Tympanun	n c
A6416345	North Ventilation Shaft - Steel Bell Installation	37	10-Oct-15	23-Nov-15	08-Sep-15A	31-Oct-15					Iorth Ventila	
A6416350	North Ventilation Shaft - Steel Bell Backfilling for S882 Crossing	10	24-Nov-15	04-Dec-15	02-Nov-15	12-Nov-15					_	
710-110000	Trotal vertification origin of cook of cooking		24110110	04 200 10	02 1407 10	19-Nov-15					North \/c	
	North Ventilation Shaft - Shaft Flooding for S980 Arrival	6	05-Dec-15	11-Dec-15	13-Nov-15		1 1				North Ve	
A6416360	North Ventilation Shaft - Shaft Flooding for S880 Arrival	6	05-Dec-15	11-Dec-15	13-Nov-15	19-1100-15					North Ve	
A6416360 MCLK VO-00	08 - Construction of Viaduct Foundations at Portion N6A		05-Dec-15		13-Nov-15						_	
A6416360 MCLK VO-00 MCLK-N6-101	08 - Construction of Viaduct Foundations at Portion N6A Variation Order V-008 - Issued from SOR	6	05-Dec-15	11-Dec-15 29-Apr-14	13-Nov-15	27-Jul-15A					_	
A6416360 MCLK VO-00 MCLK-N6-101	08 - Construction of Viaduct Foundations at Portion N6A Variation Order V-008 - Issued from SOR ed Pile Construction		05-Dec-15		13-Nov-15						_	
A6416360 MCLK VO-00 MCLK-N6-101 Viaduct Bore Method Sta	08 - Construction of Viaduct Foundations at Portion N6A Variation Order V-008 - Issued from SOR ed Pile Construction		05-Dec-15		13-Nov-15						_	
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A6416360 MCLK VO-00 MCLK-N6-101 iaduct Bore Method Sta TMCLK-N6-85 TMCLK-N6-86	08 - Construction of Viaduct Foundations at Portion N6A Variation Order V-008 - Issued from SOR ed Pile Construction atement Final Method Statement	0		29-Apr-14		27-Jul-15A 06-Aug-15A					_	
A6416360 MCLK VO-00 MCLK-N6-101 Iaduct Bore Method Sta TMCLK-N6-85 TMCLK-N6-86 Bored Pile (G1b-7	08 - Construction of Viaduct Foundations at Portion N6A Variation Order V-008 - Issued from SOR ed Pile Construction atement Final Method Statement Method Statement - Submission for SOR Approval Construction	0		29-Apr-14		27-Jul-15A 06-Aug-15A					_	
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A6416360 MCLK VO-00 MCLK-N6-101 Viaduct Bore Method Sta TMCLK-N6-85 TMCLK-N6-86 Bored Pile (G1b-7 TMCLK-N60 TMCLK-N61 H1b-13	08 - Construction of Viaduct Foundations at Portion N6A Variation Order V-008 - Issued from SOR ed Pile Construction atement Final Method Statement Method Statement - Submission for SOR Approval Construction Pile 7 - Excavation	4 0	08-May-14 20-May-14	29-Apr-14 12-May-14 12-May-14	03-Aug-15A 14-Aug-15A	27-Jul-15A 06-Aug-15A 06-Aug-15A					_	
A6416360 MCLK VO-00 MCLK-N6-101 fiaduct Bore Method Sta TMCLK-N6-86 Bored Pile (G1b-7 TMCLK-N60 TMCLK-N61 H1b-13 TMCLK-N72 G1c-6	08 - Construction of Viaduct Foundations at Portion N6A Variation Order V-008 - Issued from SOR ed Pile Construction atement Final Method Statement Method Statement - Submission for SOR Approval Construction Pile 7 - Excavation Pile 7 - RCD Installation	4 0	08-May-14 20-May-14 23-May-14	29-Apr-14 12-May-14 12-May-14 22-May-14 24-May-14	03-Aug-15A 14-Aug-15A 18-Aug-15A	27-Jul-15A 06-Aug-15A 06-Aug-15A 17-Aug-15A					_	
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A6416360 MCLK VO-00 MCLK-N6-101 /iaduct Bore Method Sta TMCLK-N6-85 TMCLK-N6-86 Bored Pile (G1b-7 TMCLK-N60 TMCLK-N61 H1b-13 TMCLK-N72 G1c-6 TMCLK-N655 TMCLK-N657	08 - Construction of Viaduct Foundations at Portion N6A Variation Order V-008 - Issued from SOR ed Pile Construction atement Final Method Statement Method Statement - Submission for SOR Approval Construction Pile 7 - Excavation Pile 7 - RCD Installation Pile 13 - RCD Socket Drilling Pile 6 - RCD Socket Drilling Pile 6 - Concreting Cap	0 4 0 3 2 4 4 14	08-May-14 20-May-14 23-May-14 31-May-14	29-Apr-14 12-May-14 12-May-14 22-May-14 24-May-14 05-Jun-14	03-Aug-15A 14-Aug-15A 18-Aug-15A 26-Aug-15A	27-Jul-15A 06-Aug-15A 06-Aug-15A 17-Aug-15A 19-Aug-15A 29-Aug-15A					_	
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A6416360 MCLK VO-00 MCLK-N6-101 /iaduct Bore Method Sta TMCLK-N6-85 TMCLK-N6-86 Bored Pile (G1b-7 TMCLK-N60 TMCLK-N61 H1b-13 TMCLK-N72 G1c-6 TMCLK-N655 TMCLK-N657 /iaduct Pile Constructio Pier G1c TMCLK-N636 TMCLK-N637 TMCLK-N638	08 - Construction of Viaduct Foundations at Portion N6A Variation Order V-008 - Issued from SOR ed Pile Construction atement Final Method Statement Method Statement - Submission for SOR Approval Construction Pile 7 - Excavation Pile 7 - RCD Installation Pile 13 - RCD Socket Drilling Pile 6 - Concreting Cap on Pile Cap G1c - Preparation for ELS Pile Cap G1c - Excavation & ELS Installation	0 4 0 3 2 4 14 1 1 6 6 6 12	20-May-14 23-May-14 23-May-14 31-May-14 14-Jul-14 01-Aug-14 24-Oct-14 31-Oct-14	29-Apr-14 12-May-14 12-May-14 22-May-14 24-May-14 05-Jun-14 29-Jul-14 01-Aug-14 30-Oct-14 06-Nov-14	03-Aug-15A 14-Aug-15A 18-Aug-15A 26-Aug-15A 08-Oct-15A 01-Aug-14A 29-Sep-15 07-Oct-15 14-Oct-15	27-Jul-15A 06-Aug-15A 06-Aug-15A 17-Aug-15A 19-Aug-15A 29-Aug-15A 29-Jul-15A 06-Oct-15 13-Oct-15 28-Oct-15					_	
MCLK VO-00 MCLK-N6-101 /iaduct Bore Method Sta TMCLK-N6-85 TMCLK-N6-86 Bored Pile (G1b-7 TMCLK-N60 TMCLK-N61 H1b-13 TMCLK-N72 G1c-6 TMCLK-N655 TMCLK-N657 /iaduct Pile Constructic Pier G1c TMCLK-N636 TMCLK-N637 TMCLK-N638	08 - Construction of Viaduct Foundations at Portion N6A Variation Order V-008 - Issued from SOR ed Pile Construction atement Final Method Statement Method Statement - Submission for SOR Approval Construction Pile 7 - Excavation Pile 7 - RCD Installation Pile 6 - RCD Socket Drilling Pile 6 - Concreting Cap on Pile Cap G1c - Preparation for ELS Pile Cap G1c - Removal of Existing ground slab	0 4 0 3 2 4 14 1 1 6 6 6 6	08-May-14 20-May-14 23-May-14 31-May-14 01-Aug-14 24-Oct-14 31-Oct-14	29-Apr-14 12-May-14 12-May-14 22-May-14 24-May-14 05-Jun-14 01-Aug-14 30-Oct-14 06-Nov-14	03-Aug-15A 14-Aug-15A 18-Aug-15A 26-Aug-15A 08-Oct-15A 01-Aug-14A 29-Sep-15 07-Oct-15	27-Jul-15A 06-Aug-15A 06-Aug-15A 17-Aug-15A 19-Aug-15A 29-Aug-15A 29-Jul-15A 06-Oct-15 13-Oct-15					_	
A6416360 MCLK VO-00 MCLK-N6-101 /iaduct Bore Method Sta TMCLK-N6-86 Bored Pile (G1b-7 TMCLK-N60 TMCLK-N61 H1b-13 TMCLK-N655 TMCLK-N655 TMCLK-N655 TMCLK-N657 TMCLK-N636 TMCLK-N636 TMCLK-N638 TMCLK-N638	08 - Construction of Viaduct Foundations at Portion N6A Variation Order V-008 - Issued from SOR ed Pile Construction atement Final Method Statement Method Statement - Submission for SOR Approval Construction Pile 7 - Excavation Pile 7 - RCD Installation Pile 13 - RCD Socket Drilling Pile 6 - Concreting Cap on Pile Cap G1c - Preparation for ELS Pile Cap G1c - Excavation & ELS Installation	0 4 0 3 2 4 14 1 1 6 6 6 12	20-May-14 23-May-14 23-May-14 31-May-14 14-Jul-14 01-Aug-14 24-Oct-14 31-Oct-14	29-Apr-14 12-May-14 12-May-14 22-May-14 24-May-14 05-Jun-14 29-Jul-14 01-Aug-14 30-Oct-14 06-Nov-14	03-Aug-15A 14-Aug-15A 18-Aug-15A 26-Aug-15A 08-Oct-15A 01-Aug-14A 29-Sep-15 07-Oct-15 14-Oct-15	27-Jul-15A 06-Aug-15A 06-Aug-15A 17-Aug-15A 19-Aug-15A 29-Aug-15A 29-Jul-15A 06-Oct-15 13-Oct-15 28-Oct-15					_	
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A6416360 MCLK VO-00 MCLK-N6-101 /iaduct Bore Method Sta TMCLK-N6-85 TMCLK-N6-86 Bored Pile (G1b-7 TMCLK-N60 TMCLK-N61 H1b-13 TMCLK-N72 G1c-6 TMCLK-N657 /iaduct Pile Constructio Pier G1c TMCLK-N638 TMCLK-N638 TMCLK-N639 TMCLK-N639 TMCLK-N640	08 - Construction of Viaduct Foundations at Portion N6A Variation Order V-008 - Issued from SOR ed Pile Construction atement Final Method Statement Method Statement - Submission for SOR Approval Construction Pile 7 - Excavation Pile 7 - RCD Installation Pile 6 - RCD Socket Drilling Pile 6 - Concreting Cap on Pile Cap G1c - Preparation for ELS Pile Cap G1c - Excavation & ELS Installation Pile Cap G1c - Blinding Concrete Pile Cap G1c - Rebar & Concreting	0 4 0 3 2 4 14 1 1 1 6 6 6 12 3 18	20-May-14 23-May-14 23-May-14 31-May-14 14-Jul-14 01-Aug-14 24-Oct-14 31-Oct-14 07-Nov-14 21-Nov-14	29-Apr-14 12-May-14 12-May-14 22-May-14 24-May-14 05-Jun-14 01-Aug-14 30-Oct-14 06-Nov-14 20-Nov-14 24-Nov-14 15-Dec-14	03-Aug-15A 14-Aug-15A 18-Aug-15A 26-Aug-15A 08-Oct-15A 01-Aug-14A 29-Sep-15 07-Oct-15 14-Oct-15 29-Oct-15 02-Nov-15	27-Jul-15A 06-Aug-15A 06-Aug-15A 17-Aug-15A 19-Aug-15A 29-Aug-15A 29-Jul-15A 06-Oct-15 13-Oct-15 28-Oct-15 21-Nov-15					_	
A6416360 MCLK VO-00 MCLK-N6-101 /iaduct Bore Method Sta TMCLK-N6-86 Bored Pile (G1b-7 TMCLK-N60 TMCLK-N61 H1b-13 TMCLK-N655 TMCLK-N655 TMCLK-N655 TMCLK-N657 TMCLK-N637 TMCLK-N638 TMCLK-N639 TMCLK-N640 TMCLK-N641 Pier H1c	08 - Construction of Viaduct Foundations at Portion N6A Variation Order V-008 - Issued from SOR ed Pile Construction atement Final Method Statement Method Statement - Submission for SOR Approval Construction Pile 7 - Excavation Pile 7 - RCD Installation Pile 6 - RCD Socket Drilling Pile 6 - Concreting Cap on Pile Cap G1c - Preparation for ELS Pile Cap G1c - Excavation & ELS Installation Pile Cap G1c - Blinding Concrete Pile Cap G1c - Rebar & Concreting	0 4 0 3 2 4 14 1 1 1 6 6 6 12 3 18	20-May-14 23-May-14 23-May-14 31-May-14 14-Jul-14 01-Aug-14 24-Oct-14 31-Oct-14 07-Nov-14 21-Nov-14	29-Apr-14 12-May-14 12-May-14 22-May-14 24-May-14 05-Jun-14 01-Aug-14 30-Oct-14 06-Nov-14 20-Nov-14 24-Nov-14 15-Dec-14	03-Aug-15A 14-Aug-15A 18-Aug-15A 26-Aug-15A 08-Oct-15A 01-Aug-14A 29-Sep-15 07-Oct-15 14-Oct-15 29-Oct-15 02-Nov-15	27-Jul-15A 06-Aug-15A 06-Aug-15A 17-Aug-15A 19-Aug-15A 29-Aug-15A 29-Jul-15A 06-Oct-15 13-Oct-15 28-Oct-15 21-Nov-15					_	
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A6416360 MCLK VO-00 MCLK-N6-101 /iaduct Bore Method Sta TMCLK-N6-85 TMCLK-N6-86 Bored Pile (G1b-7 TMCLK-N60 TMCLK-N61 H1b-13 TMCLK-N65 TMCLK-N655 TMCLK-N655 TMCLK-N657 TMCLK-N657 TMCLK-N637 TMCLK-N638 TMCLK-N638 TMCLK-N639 TMCLK-N640 TMCLK-N641 Pier H1c TMCLK-N642 TMCLK-N643	O8 - Construction of Viaduct Foundations at Portion N6A Variation Order V-008 - Issued from SOR ed Pile Construction atement Final Method Statement Method Statement - Submission for SOR Approval Construction Pile 7 - Excavation Pile 7 - RCD Installation Pile 13 - RCD Socket Drilling Pile 6 - RCD Socket Drilling Pile 6 - Concreting Cap on Pile Cap G1c - Preparation for ELS Pile Cap G1c - Excavation & ELS Installation Pile Cap G1c - Blinding Concrete Pile Cap G1c - Backfilling & Temp Reinstatement Pile Cap H1c - Preparation for ELS Pile Cap H1c - Preparation for ELS	0	20-May-14 23-May-14 23-May-14 31-May-14 14-Jul-14 01-Aug-14 24-Oct-14 31-Oct-14 07-Nov-14 25-Nov-14 16-Dec-14 23-Dec-14 02-Jan-15	29-Apr-14 12-May-14 12-May-14 12-May-14 22-May-14 24-May-14 05-Jun-14 01-Aug-14 30-Oct-14 06-Nov-14 22-Nov-14 22-Dec-14 31-Dec-14 08-Jan-15	03-Aug-15A 14-Aug-15A 18-Aug-15A 26-Aug-15A 08-Oct-15A 01-Aug-14A 29-Sep-15 07-Oct-15 14-Oct-15 29-Oct-15 02-Nov-15 23-Nov-15 30-Nov-15 07-Dec-15	27-Jul-15A 06-Aug-15A 06-Aug-15A 17-Aug-15A 19-Aug-15A 29-Aug-15A 24-Oct-15A 29-Jul-15A 06-Oct-15 13-Oct-15 28-Oct-15 21-Nov-15 28-Nov-15 05-Dec-15 12-Dec-15		Date		on.	North	
A6416360 MCLK VO-00 MCLK-N6-101 /iaduct Bore Method Sta TMCLK-N6-85 TMCLK-N6-86 Bored Pile (G1b-7 TMCLK-N601 H1b-13 TMCLK-N61 H1b-13 TMCLK-N655 TMCLK-N657 TMCLK-N657 TMCLK-N637 TMCLK-N638 TMCLK-N639 TMCLK-N639 TMCLK-N640 TMCLK-N641 Pier H1C TMCLK-N642 TMCLK-N643 f 12	Variation Order V-008 - Issued from SOR ed Pile Construction atement Final Method Statement Method Statement - Submission for SOR Approval Construction Pile 7 - Excavation Pile 7 - RCD Installation Pile 13 - RCD Socket Drilling Pile 6 - RCD Socket Drilling Pile 6 - Concreting Cap on Pile Cap G1c - Preparation for ELS Pile Cap G1c - Excavation & ELS Installation Pile Cap G1c - Removal of Existing ground slab Pile Cap G1c - Rebar & Concreting Pile Cap G1c - Backfilling & Temp Reinstatement Pile Cap H1c - Preparation for ELS Pile Cap H1c - Removal of Existing ground slab Pile Cap G1c - Backfilling & Temp Reinstatement Pile Cap H1c - Removal of Existing ground slab Pile Cap H1c - Removal of Existing ground slab Pile Cap H1c - Removal of Existing ground slab Pile Cap H1c - Removal of Existing ground slab	0	20-May-14 23-May-14 23-May-14 31-May-14 14-Jul-14 01-Aug-14 24-Oct-14 31-Oct-14 07-Nov-14 25-Nov-14 16-Dec-14 23-Dec-14 02-Jan-15	29-Apr-14 12-May-14 12-May-14 12-May-14 22-May-14 24-May-14 05-Jun-14 01-Aug-14 30-Oct-14 06-Nov-14 22-Nov-14 22-Dec-14 31-Dec-14 08-Jan-15	03-Aug-15A 14-Aug-15A 18-Aug-15A 26-Aug-15A 08-Oct-15A 01-Aug-14A 29-Sep-15 07-Oct-15 14-Oct-15 29-Oct-15 23-Nov-15 30-Nov-15	27-Jul-15A 06-Aug-15A 06-Aug-15A 17-Aug-15A 19-Aug-15A 29-Aug-15A 24-Oct-15A 29-Jul-15A 06-Oct-15 13-Oct-15 28-Oct-15 21-Nov-15 28-Nov-15 05-Dec-15 12-Dec-15	£.Pa	0a1 12-Feb-1 08-Apr-1 28-Aug-1	4 TMCLK/DBJ/GEN/PR TMCLK/DBJ/GEN/PR	on G08507 Rev.B S	Cheded WYU PR	h Ve
A6416360 MCLK VO-00 MCLK-N6-101 /iaduct Bore Method Sta TMCLK-N6-85 TMCLK-N6-86 Bored Pile (G1b-7 TMCLK-N601 H1b-13 TMCLK-N61 H1b-13 TMCLK-N655 TMCLK-N657 TMCLK-N657 TMCLK-N637 TMCLK-N638 TMCLK-N639 TMCLK-N639 TMCLK-N641 Pier H1C TMCLK-N641 Pier H1C TMCLK-N642 TMCLK-N643 f 12	O8 - Construction of Viaduct Foundations at Portion N6A Variation Order V-008 - Issued from SOR ed Pile Construction atement Final Method Statement Method Statement - Submission for SOR Approval Construction Pile 7 - Excavation Pile 7 - RCD Installation Pile 13 - RCD Socket Drilling Pile 6 - RCD Socket Drilling Pile 6 - Concreting Cap on Pile Cap G1c - Preparation for ELS Pile Cap G1c - Excavation & ELS Installation Pile Cap G1c - Removal of Existing ground slab Pile Cap G1c - Rebar & Concrette Pile Cap G1c - Rebar & Concrette Pile Cap G1c - Rebar & Concrette Pile Cap G1c - Removal of Existing ground slab Pile Cap G1c - Rebar & Concrette Pile Cap G1c - Rebar & Concretting Pile Cap G1c - Rebar & Concretting Pile Cap G1c - Rebar & Concretting Pile Cap H1c - Preparation for ELS Pile Cap H1c - Removal of Existing ground slab TMCI	0	20-May-14 23-May-14 23-May-14 31-May-14 14-Jul-14 01-Aug-14 31-Oct-14 07-Nov-14 21-Nov-14 25-Nov-14 16-Dec-14 23-Dec-14 02-Jan-15	29-Apr-14 12-May-14 12-May-14 12-May-14 22-May-14 24-May-14 05-Jun-14 01-Aug-14 30-Oct-14 06-Nov-14 22-Nov-14 22-Dec-14 31-Dec-14 08-Jan-15 ection Sub-S	03-Aug-15A 14-Aug-15A 18-Aug-15A 26-Aug-15A 08-Oct-15A 01-Aug-14A 29-Sep-15 07-Oct-15 14-Oct-15 29-Oct-15 02-Nov-15 23-Nov-15 30-Nov-15 07-Dec-15	27-Jul-15A 06-Aug-15A 06-Aug-15A 17-Aug-15A 19-Aug-15A 29-Aug-15A 29-Jul-15A 29-Jul-15A 29-Jul-15A 06-Oct-15 13-Oct-15 28-Oct-15 21-Nov-15 28-Nov-15 12-Dec-15 12-Dec-15	章 夏 Ā Drogages	12-Feb-1 08-Apr-1- 28-Aug-1 10-Jun-1:	4 TMCLK/DBJGEN/PR 5 TMCLK/DBJGEN/PR 4 TMCLK/DBJGEN/PR	on G-98507 Rev. B IS G-98507 Rev. C IS	Cheded Wvu	h Ve
A6416360 MCLK VO-00 MCLK-N6-101 /iaduct Bore Method Sta TMCLK-N6-86 Bored Pile (G1b-7 TMCLK-N601 H1b-13 TMCLK-N65 TMCLK-N655 TMCLK-N655 TMCLK-N657 TMCLK-N657 TMCLK-N636 TMCLK-N638 TMCLK-N639 TMCLK-N639 TMCLK-N640 TMCLK-N641 Pier H1C TMCLK-N642 TMCLK-N643 f 12	O8 - Construction of Viaduct Foundations at Portion N6A Variation Order V-008 - Issued from SOR ed Pile Construction atement Final Method Statement Method Statement - Submission for SOR Approval Construction Pile 7 - Excavation Pile 7 - RCD Installation Pile 6 - RCD Socket Drilling Pile 6 - Concreting Cap On Pile Cap G1c - Preparation for ELS Pile Cap G1c - Removal of Existing ground slab Pile Cap G1c - Blinding Concrete Pile Cap G1c - Backfilling & Temp Reinstatement Pile Cap H1c - Preparation for ELS Pile Cap H1c - Preparation for ELS Pile Cap H1c - Removal of Existing ground slab Pile Cap H1c - Preparation for ELS Pile Cap H1c - Removal of Existing ground slab Planned Bar Planned Bar Planned Bar Planned Bar Planned Milestone Deta	0	20-May-14 23-May-14 23-May-14 31-May-14 14-Jul-14 01-Aug-14 24-Oct-14 31-Oct-14 07-Nov-14 25-Nov-14 16-Dec-14 23-Dec-14 02-Jan-15 Thern Conne	29-Apr-14 12-May-14 12-May-14 12-May-14 22-May-14 24-May-14 05-Jun-14 01-Aug-14 30-Oct-14 06-Nov-14 22-Nov-14 22-Dec-14 31-Dec-14 08-Jan-15 ection Sub-S	03-Aug-15A 14-Aug-15A 18-Aug-15A 26-Aug-15A 08-Oct-15A 01-Aug-14A 29-Sep-15 07-Oct-15 14-Oct-15 29-Oct-15 23-Nov-15 30-Nov-15 07-Dec-15 ea Tunnel Signary	27-Jul-15A 06-Aug-15A 06-Aug-15A 17-Aug-15A 19-Aug-15A 29-Aug-15A 29-Jul-15A 29-Jul-15A 29-Jul-15A 06-Oct-15 13-Oct-15 28-Oct-15 21-Nov-15 28-Nov-15 12-Dec-15 12-Dec-15	香寶嘉 Bragages Hondruction group	12-Feb-1 08-Apr-1 28-Aug-1	4 TMCLK/DBJGEN/PR 5 TMCLK/DBJGEN/PR 4 TMCLK/DBJGEN/PR	on G-98507 Rev. B IS G-98507 Rev. C IS	Cheded Wvu	

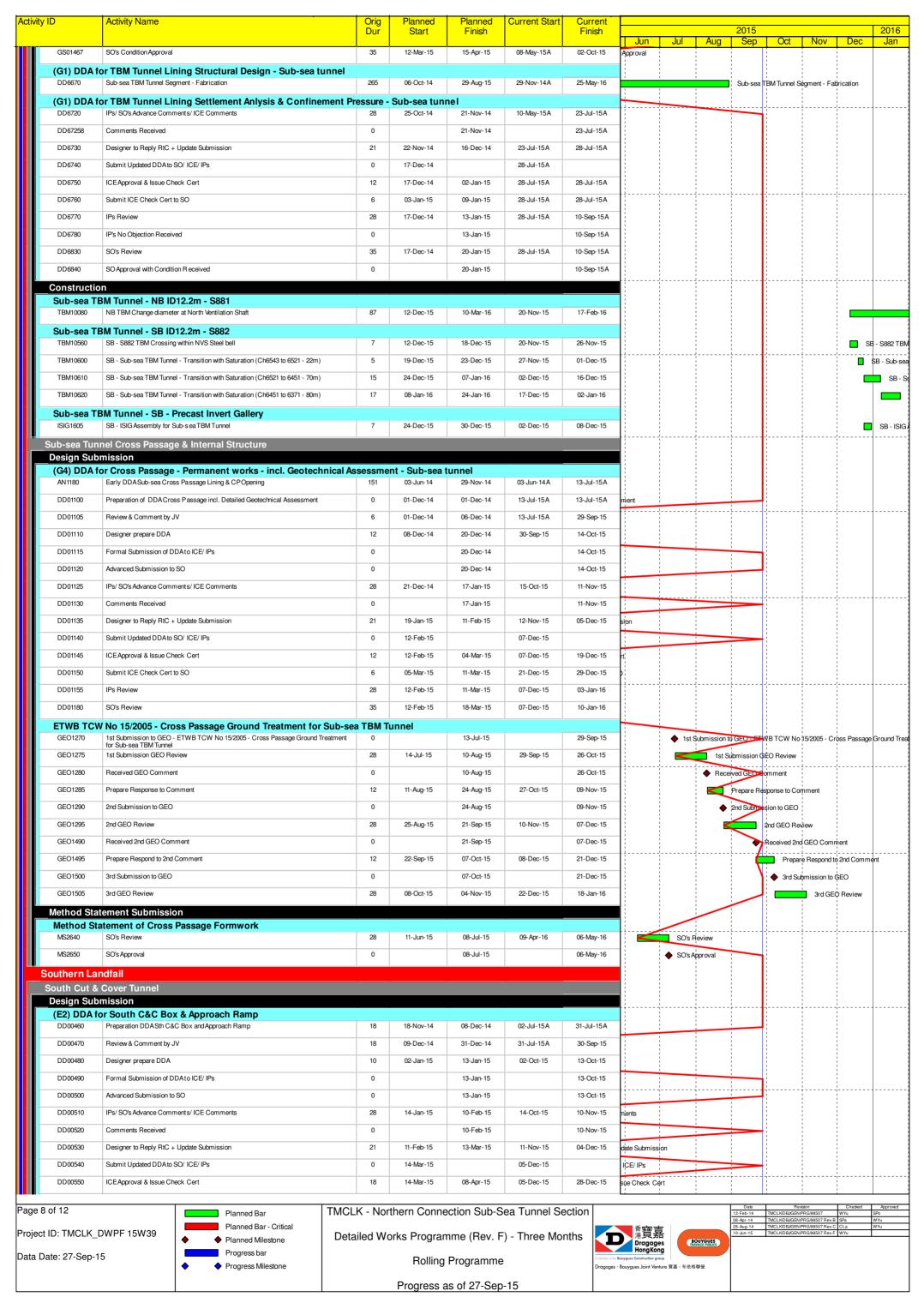


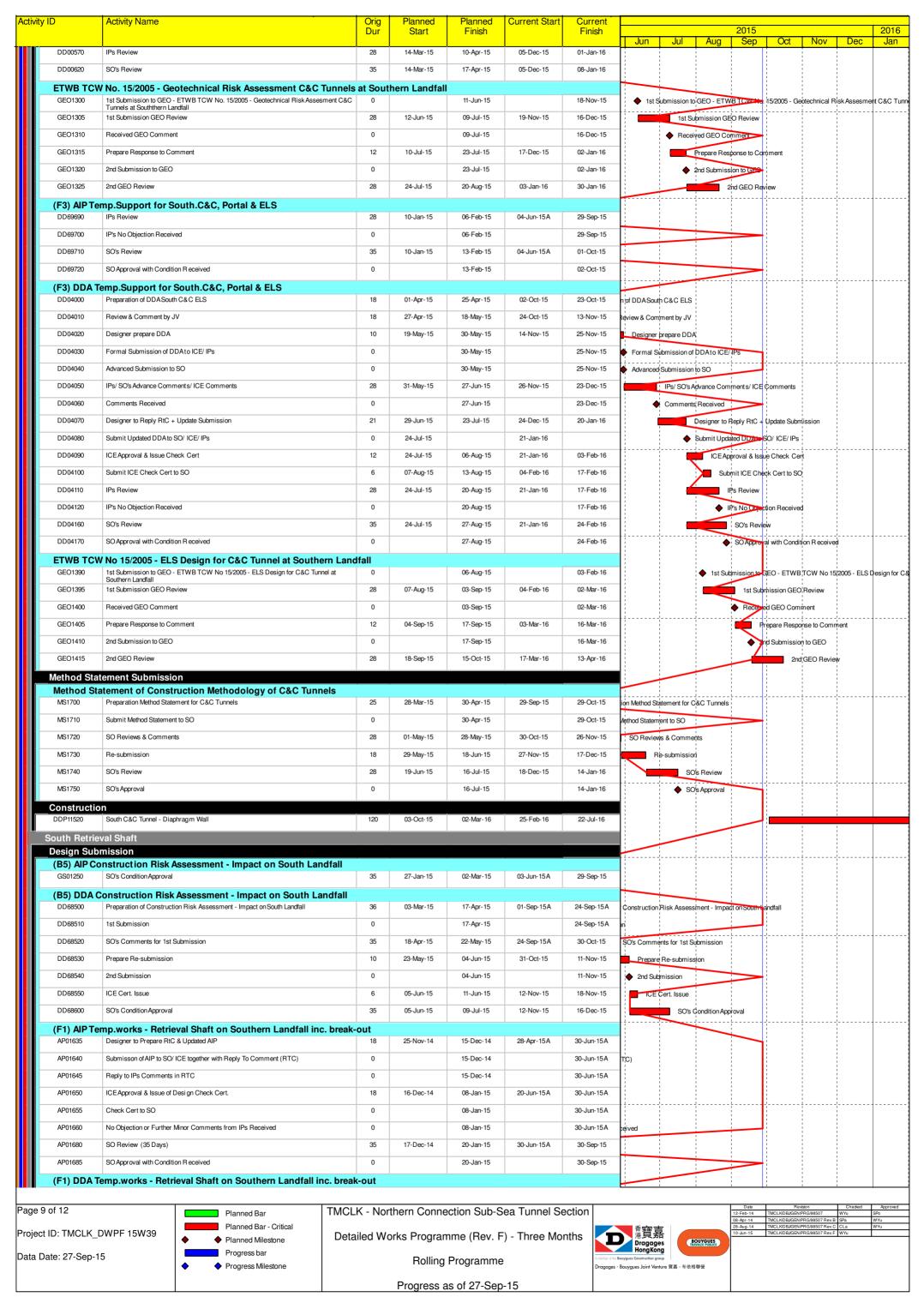
	Activity Name	Orig Dur	Planned Start	Planned Finish	Current Start	Current Finish	2015 2 Jun Jul Aug Sep Oct Nov Dec
ISIG1015	NB - North TBM Tunnel - Invert Backfilling (Ch6870 to 6688 - 182m) Stage 1	77	22-Nov-15	06-Feb-16	21-Dec-15	09-Mar-16	
ISIG1020	NB - North TBM Tunnel - Preparation for Invert Gallery Installation	14	27-Aug-15	09-Sep-15	21-Sep-15A	25-Sep-15A	NB North TBM Tunnel - Preparation for Inverti
ISIG1030	NB - North TBM Tunnel - Invert Precast Gallery Installation (Ch7205 to 6870 - 335m)	96	10-Sep-15	14-Dec-15	01-Sep-15A	22-Jan-16	NB N
ISIG1040	NB - North TBM Tunnel - Invert Precast Gallery Installation (Ch6870 to 6688 - 182m)	77	15-Dec-15	03-Mar-16	23-Jan-16	14-Apr-16	
ISIG1045	NB - North TBM Tunnel - Invert Backfilling (Ch7205 to 7175 - 30m) Stage 2	9	01-Oct-15	09-Oct-15	29-Oct-15	06-Nov-15	NB - North TBM Tünnel - Invert Bac
ISIG1050	NB - North TBM Tunnel - Invert Backfilling (Ch7175 to 7125 - 50m) Stage 2	15	10-Oct-15	24-Oct-15	07-Nov-15	21-Nov-15	NB - North TBM Tunnel - Invi
ISIG1060	NB - North TBM Tunnel - Invert Backfilling (Ch7125 to 7075 - 50m) Stage 2	15	25-Oct-15	08-Nov-15	22-Nov-15	06-Dec-15	NB - North TBM Tunne
ISIG1070	NB - North TBM Tunnel - Invert Backfilling (Ch7075 to 7025 - 50m) Stage 2	15	09-Nov-15	23-Nov-15	07-Dec-15	21-Dec-15	NB - North TBM
ISIG1080	NB - North TBM Tunnel - Invert Backfilling (Ch7025 to 6975 - 50m) Stage 2	14	24-Nov-15	07-Dec-15	22-Dec-15	04-Jan-16	NB - North
ISIG1090	NB - North TBM Tunnel - Invert Backfilling (Ch6975 to 6925- 50m) Stage 2	14	08-Dec-15	21-Dec-15	05-Jan-16	18-Jan-16	NB-
ISIG1100	NB - North TBM Tunnel - Invert Backfilling (Ch6925 to 6870 - 55m) Stage 2	14	22-Dec-15	04-Jan-16	19-Jan-16	01-Feb-16	
North Appi	roach Tunnel Internal Structure - SB SB - North TBM Tunnel - Invert Backfilling (Ch7205 to 7175 - 30m)	8	18-Sep-15	26-Sep-15	14-Sep-15A	16-Oct-15	SB - North TBM Tunnel , Invert Backfillin
ISIG1120	SB - North TBM Tunnel - Invert Backfilling (Ch7175 to 7125 - 50m)	13	26-Sep-15	09-Oct-15	16-Sep-15A	19-Oct-15	SB - North TBM Tunnel - Invert Bac
ISIG1130	SB - North TBM Tunnel - Invert Backfilling (Ch7125 to 7075 - 50m)	13	09-Oct-15	22-Oct-15	18-Sep-15A	22-Oct-15	SB - North TBM Tunnel - Inve
ISIG1140	SB - North TBM Tunnel - Invert Backfilling (Ch7075 to 7025 - 50m)	13	22-Oct-15	04-Nov-15	20-Sep-15A	25-Oct-15	SB - North TBM Tunnel -
ISIG1150	SB - North TBM Tunnel - Invert Backfilling (Ch7025 to 6975 - 50m)	12	04-Nov-15	16-Nov-15	26-Oct-15	06-Nov-15	SB - North TBM Tu
ISIG1160	SB - North TBM Tunnel - Invert Backfilling (Ch6975 to 6925-50m)	12	16-Nov-15	28-Nov-15	07-Nov-15	18-Nov-15	SB - North TB
ISIG1170	SB - North TBM Tunnel - Invert Backfilling (Ch6925 to 6870 - 55m)	12	28-Nov-15	10-Dec-15	19-Nov-15	30-Nov-15	SB-Nort
ISIG1170	SB - North TBM Tunnel - Invert Backfilling (Ch6870 to 6688 - 182m)	77	10-Dec-15	28-Feb-16	01-Dec-15	18-Feb-16	SB-Non
	roach Cross Passage	"	10-200-10	201 00 10	01-200-10	10-1 05-10	
	aditional Method						
A6418390	CP55 Platform Available from ML03 North Approach Tunnel Backfilling	0	10-Oct-15		07-Nov-15		◆ CP55 Platform Avåilable from NL0
A6418440	CP55 Platform Available from ML02 North Approach Tunnel Backfilling	0	09-Oct-15		20-Oct-15		◆ CP55 Platform Available from ML02
	ditional Method				20.0		
A6418380	CP54 Platform Available from ML03 North Approach Tunnel Backfilling	0	24-Nov-15		22-Dec-15		◆ CP54 Platform A
A6418450	CP54 Platform Available from ML02 North Approach Tunnel Backfilling	0	04-Nov-15		26-Oct-15		CP54 Platform Available
	De Jacking Method CP53 Platform Available from ML03 North Approach Tunnel Backfilling	0	22-Dec-15		19-Jan-16		
A6418460	CP53 Platform Available from ML02 North Approach Tunnel Backfilling	0	28-Nov-15		19-Nov-15		◆ CP53 Platform
CP10100	CP - Pipe Jacking TBM - Delivery, Assembly & Setup	23	22-Dec-15	20-Jan-16	19-Jan-16	20-Feb-16	S. S. Malau
	pe Jacking Method			20 041.10	10 001.10	20 / 00 / 0	
A6418470	CP52 Platform Available from ML02 North Approach Tunnel Backfilling	0	21-Dec-15		12-Dec-15		♦ qP5:
North Ventila	Ition Building						
_Design Sub	mission						
(A10) ACAE GS01650	BAS Submissions ACABAS Approval	28	16-Mar-14	12-Apr-14	27-Aug-15A	29-Sep-15	
(A11) Subm	nissons to Design Advisory Panel of ArchSD						
GS01730	Prepare Re-submission	18	19-May-14	09-Jun-14	22-Jul-14A	18-Sep-15A	
	Prepare Re-submission ArchSD's comment	18 30	19-May-14 10-Jun-14	09-Jun-14 09-Jul-14	22-Jul-14A 18-Sep-15A	18-Sep-15A 17-Oct-15	
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GS01730 GS01740 (I1) DDA fo DD01235 DD01240 DD01245 DD01250 DD01255	ArchSD's comment IT North Vent.Bldgs. GBP & Arch.Submission Designer to Reply RtC + Update Submission Submit Updated DDAto SO/ ICE/ IPs ICEApproval & Issue Check Cert Submit ICE Check Cert to SO IPs Review	30 21 0 12 6 28	28-Jul-14 28-Jul-14 21-Aug-14 21-Aug-14 04-Sep-14	09-Jul-14 20-Aug-14 03-Sep-14 11-Sep-14 17-Sep-14	18-Sep-15A 02-May-15A 19-Oct-15 19-Oct-15 03-Nov-15	17-Oct-15 17-Oct-15 02-Nov-15 09-Nov-15 15-Nov-15	
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GS01730 GS01740 (I1) DDA for DD01235 DD01240 DD01245 DD01250 DD01255 DD01265 DD01270 (I1) DDA for DD67638 DD67648 (I2) DDA for DD68028 DD68038 DD68038 DD68040 DD68048 DD68068	ArchSD's comment r North Vent.Bldgs. GBP & Arch.Submission Designer to Reply RtC + Update Submission Submit Updated DDAto SO/ ICE/ IPs ICEApproval & Issue Check Cert Submit ICE Check Cert to SO IPs Review IP's No Objection Received SO's Review SO Approval with Condition Received r North & South Vent.Bldg. ABWF works Preparation of DDANorth & SouthABWF Review & Comment by JV r North Vent.Bldgs.Structural Design incl.Vent.Connection Review & Comment by JV Designer prepare DDA Formal Submission of DDAto ICE/ IPs Advanced Submission to SO IPs/ SO's Advance Comments/ ICE Comments Comments Received Designer to Reply RtC + Update Submission Submit Updated DDAto SO/ ICE/ IPs ICE Approval & Issue Check Cert Submit ICE Check Cert to SO IPs Review IP's No Objection Received SO's Review SO Approval with Condition Received r North & South Vent.Bldgs. Service and E&M Provision Preparation of DDANth VB Service and E&M Provision Review & Comment by JV	30 30 30 30 30 30 30 30 30 30 30 30 30 3	10-Jun-14 28-Jul-14 21-Aug-14 22-Sep-14 21-Oct-14 24-Dec-14 24-Dec-14 24-Dec-14 24-Dec-14 24-Dec-14 24-Dec-14 24-Dec-14	09-Jul-14 20-Aug-14 11-Sep-14 17-Sep-14 17-Sep-14 24-Sep-14 24-Sep-14 17-Oct-14 14-Nov-14 20-Oct-14 31-Oct-14 28-Nov-14 28-Nov-14 29-Jan-15 20-Jan-15 27-Jan-15 27-Jan-15 27-Jan-15 04-Oct-14 01-Nov-14	18-Sep-15A 02-May-15A 19-Oct-15 19-Oct-15 19-Oct-15 19-Oct-15 19-Oct-15 19-Oct-15 19-Oct-15 19-Oct-15 10-Aug-15A 10-Aug-15A 10-Sep-15A 07-Oct-15 22-Oct-15 07-Oct-15 07-Oct-15	17-Oct-15 17-Oct-15 02-Nov-15 09-Nov-15 15-Nov-15 15-Nov-15 22-Nov-15 23-Nov-15 12-Dec-15 13-Jan-16 03-Aug-15A 10-Aug-15A 10-Aug-15A 10-Sep-15A 06-Oct-15 20-Oct-15 28-Oct-15 28-Oct-15 03-Nov-15 10-Nov-15 10-Nov-15 30-Sep-15 30-Oct-15	
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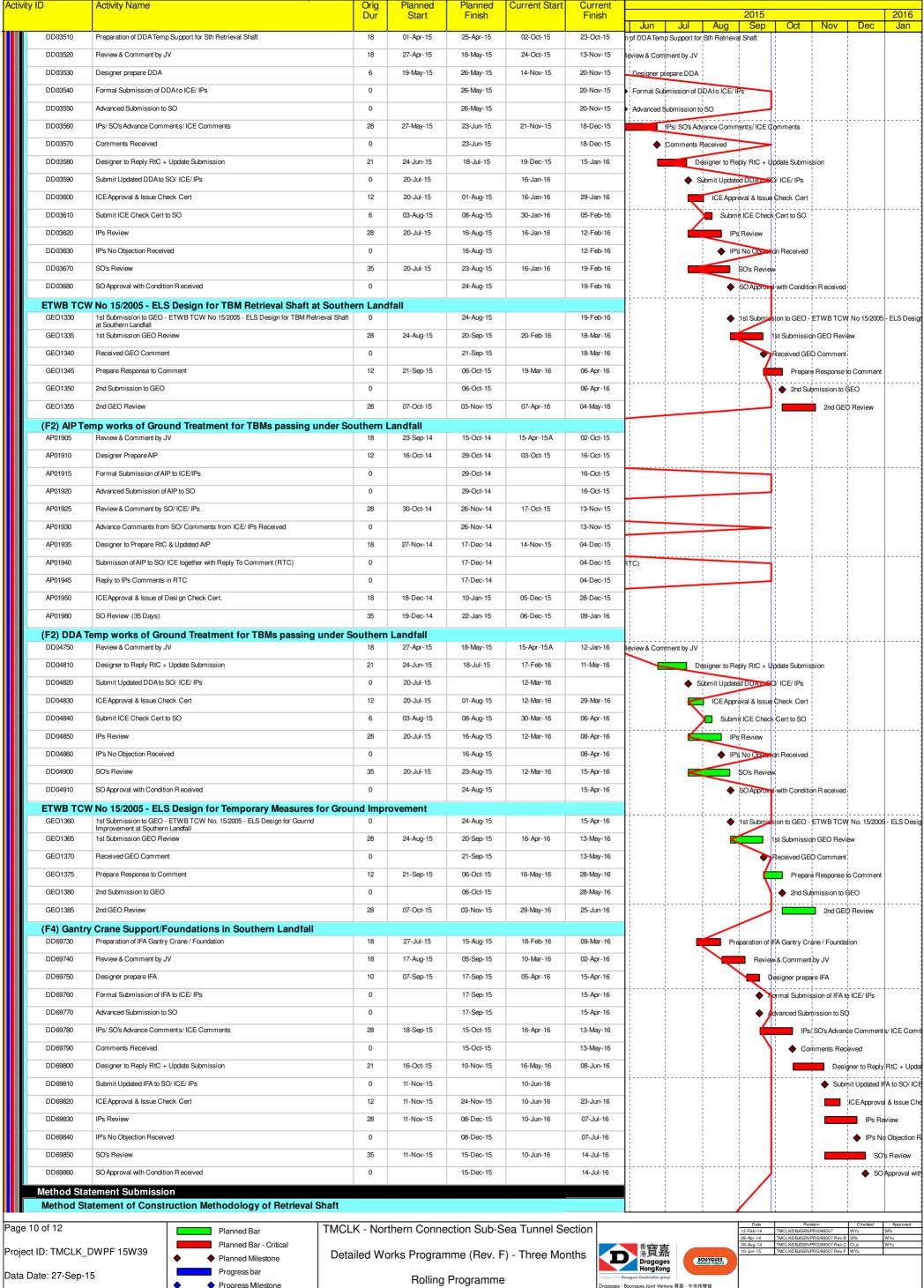
Progress as of 27-Sep-15



Progress as of 27-Sep-15



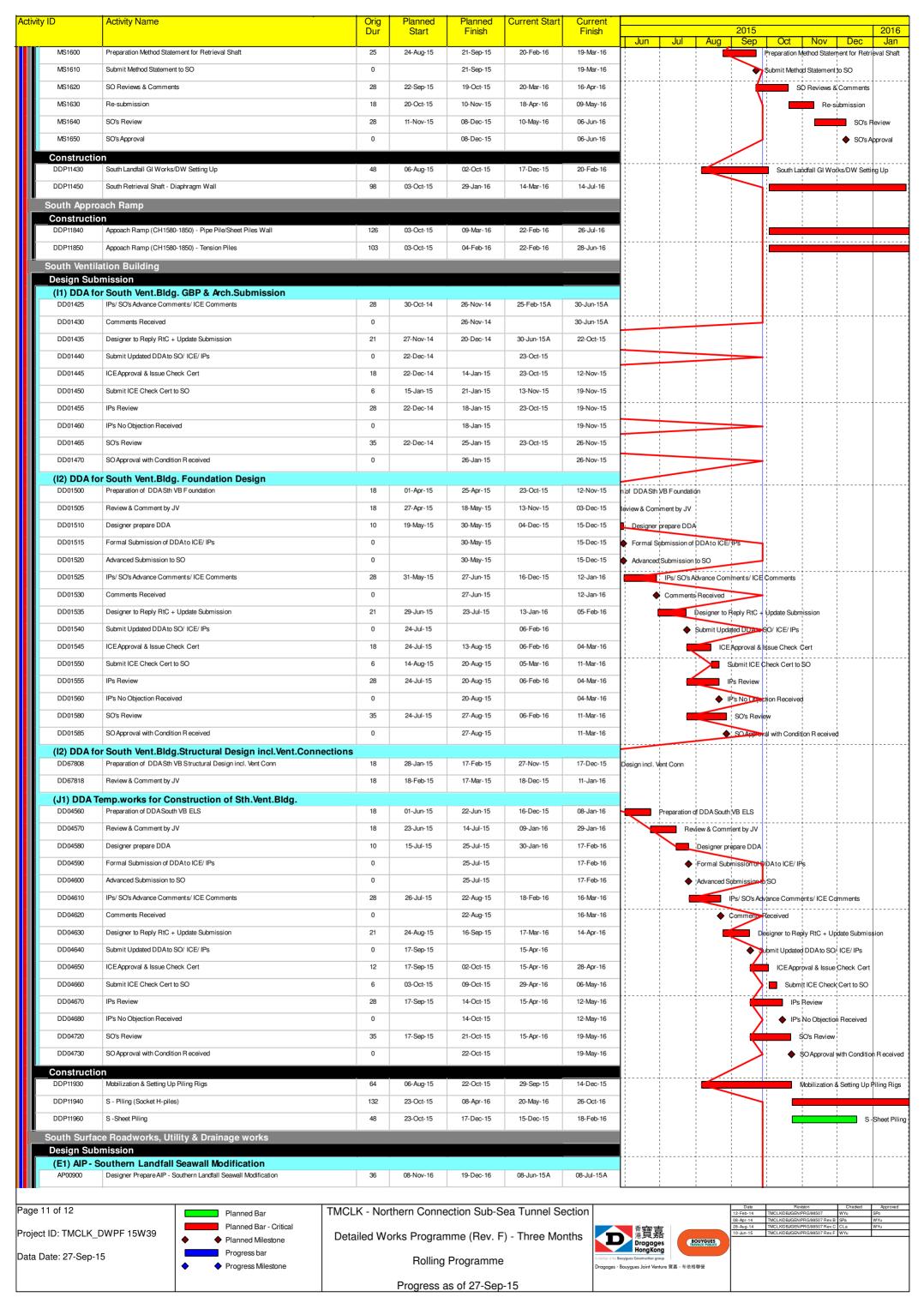




**** Progress Milestone

Progress as of 27-Sep-15





rity ID	Activity Name	Orig	Planned	Planned	Current Start	Current								
,		Dur	Start	Finish		Finish	Live	Lul	l A	2015	Oct	Mov	Doo	201
AP00905	Review & Comment by JV	12	20-Dec-16	05-Jan-17	08-Jul-15A	13-Jul-15A	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jar
AP00910	Designer prepare AIP	6	06-Jan-17	12-Jan-17	13-Jul-15A	16-Jul-15A	-							
AP00915	Formal Submission of AIP to ICE/IPs	0		12-Jan-17		16-Jul-15A	-							
AP00920	Advanced Submission of AIP to SO	0		12-Jan-17		16-Jul-15A	∤ ∔	¦						
		28	40 Jan 47		10 1.1 154		-	! ! !		! ! !				
AP00925	Review & Comment by SO/ ICE/ IPs		13-Jan-17	09-Feb-17	16-Jul-15A	30-Sep-15		 		 				
AP00930	Advance Commants from SO/ Comments from ICE/ IPs Received	0		09-Feb-17		30-Sep-15		 						
AP00935	Designer to Prepare RtC & Updated AIP	18	10-Feb-17	02-Mar-17	02-Oct-15	23-Oct-15]	!		 				
AP00940	Submisson of AIP to SO/ ICE together with Reply To Comment (RTC)	0		02-Mar-17		23-Oct-15	<u> </u>	! ! !						
AP00945	Reply to IPs Comments in RTC	0		02-Mar-17		23-Oct-15		! !		! !				
AP00950	ICEApproval & Issue of Design Check Cert.	18	03-Mar-17	23-Mar-17	24-Oct-15	13-Nov-15	1							
AP00955	Check Cert to SO	0		23-Mar-17		13-Nov-15	1							
AP00960	No Objection or Further Minor Comments from IPs Received	0		23-Mar-17		13-Nov-15	1							
AP00980	SO Review (35 Days)	35	03-Mar-17	06-Apr-17	24-Oct-15	27-Nov-15	1							
AP00985	SO Approval with Condition R eceived	0		06-Apr-17		27-Nov-15	† 	¦	-					
(E1) DD4	- Southern Landfall Seawall Modification													
DD01900	Preparation of DDA Modification of Seawall at 5th Landfall	18	07-Apr-17	02-May-17	28-Nov-15	18-Dec-15				! !				
DD01905	Review & Comment by JV	18	04-May-17	24-May-17	19-Dec-15	12-Jan-16	1	-						
(E3) DDA	tor Sewerage, Drainage, Waterworks & Utility works for Sou	th Landf	all				<u> </u>	-		 				
DD05880	Designer to Reply RtC + Update Submission	21	02-Feb-15	04-Mar-15	19-Jun-15A	03-Oct-15	Submission		1					
DD05890	Submit Updated DDA to SO/ ICE/ IPs	0	05-Mar-15		05-Oct-15		E√IPs							
DD05900	ICEApproval & Issue Check Cert	12	05-Mar-15	18-Mar-15	05-Oct-15	17-Oct-15	ck Cert							
DD05910	Submit ICE Check Cert to SO	6	19-Mar-15	25-Mar-15	19-Oct-15	26-Oct-15	tb SO							
DD05920	IPs Review	28	05-Mar-15	01-Apr-15	05-Oct-15	01-Nov-15								
DD05930	IP's No Objection Received	0		01-Apr-15	00 00.10	01-Nov-15	ceived		4	ļ				
DD05940	SO's Review	35	05-Mar-15	08-Apr-15	05-Oct-15	08-Nov-15	Ceived			1				
			03-Mai - 13		05-001-15		-							
DD05950	SO Approval with Condition R eceived	0		08-Apr-15		09-Nov-15	Condition Red	eived						
	tatement Submission Statement of Ground Treatment for TBMs Passing under Sou	thorn L	ndfall Saawa	II.										
MS2700	Preparation Method Statement for Ground Improvement in South Landfall	9	20-Jul-15	29-Jul-15	12-Mar-16	22-Mar-16	ļ		Preparation	h Method St	atement for Gr	ound Improve	ement in So	uth Land
MS2710	Submit Method Statement to SO	0		29-Jul-15		22-Mar-16	-			ethod Stave	1			
MS2720	SO Reviews & Comments	28	30-Jul-15	26-Aug-15	23-Mar-16	19-Apr-16	-				vs & Commen	te		
MS2730	Re-submission	6	27-Aug-15	02-Sep-15	20-Apr-16	26-Apr-16	-	!		Re-sub				
MS2740	SO's Review	28				24-May-16	-		1	Ne-sub				
			03-Sep-15	30-Sep-15	27-Apr-16		 		ļ		SO's Revi			
MS2750	SO's Approval	0		30-Sep-15		24-May-16					SO's Appro	oval		
DDP11435	Temporary Platform for Ground Treatment for TBM passing under Southern Seawall	48	06-Aug-15	02-Oct-15	29-Sep-15	25-Nov-15	!	-			Tompore	ry Platform fo	r Ground T-	raatmo-
DDP11440	Grouting Treatment for TBM passing under Southern Seawall	339	03-Oct-15	25-Nov-16	26-Nov-15	20-Jan-17	-				lempora	y Flation io	diodila ii	caurrer
		339	03-001-15	25-1100-16	26-INOV- 15	20-Jan-17						1		
	Commissioning/Inspection & Handover							ļ		ļ				
Finai inspe Design St	ection & Handover													
	intenance Matrix													
GS02000	Preparation of Maintenance Matrix	35	24-Dec-15	05-Feb-16	24-Dec-15	05-Feb-16	1							
(A13) Op	eration & Maintenance Manual		J					!		¦ ¦				
GS02100	Preparation of Operation and Maintenance Manual	48	24-Dec-15	27-Feb-16	24-Dec-15	27-Feb-16	[-				_	
(A14) As-	built & As-fabricated Drawings							!		!				
GS02200	Preparation of As-built and As-fabricated Drawings	48	24-Dec-15	27-Feb-16	24-Dec-15	27-Feb-16				!				
	alth & Safety File incl.As-built Dwgs & Records,Maintenance													
GS02310	Preparation of Health and Safety File including as-built drawings and records, maintenance schedules, operation and mai	48	24-Dec-15	27-Feb-16	24-Dec-15	27-Feb-16	H			-				

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Project ID: TMCLK_DWPF 15W39
Data Date: 27-Sep-15







BOUYGUES TRAVAUX PUBLICS

Date	Revision	Checked	Approved
12-Feb-14	TMCLK/DBJ/GEN/PRG/98507	WYu	SPo
08-Apr-14	TMCLK/DBJ/GEN/PRG/98507 Rev. B	SPa	WYu
28-Aug-14	TMCLK/DBJ/GEN/PRG/98507 Rev. C	CLa	WYu
10-Jun-15	TMCLK/DBJ/GEN/PRG/98507 Rev. F	WYu	

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	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Imp	olementa Stages	tion	Status *
	Reference					D	С	O	
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;		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.	. 0	Contractor	TMEIA Avoid dust generation		Y		✓

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Northern Connection Sub-sea Tunnel Section

Environmental Mitigation and Enhancement Measure Implementation Schedule

EIA Reference	EM&A Manual	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Imp	olementa Stages	tion	Status *
	Reference					D	С	О	
4.8.1	3.8	Materials having the potential to create dust shall not be loaded to a level higher than the side and tail boards, and shall be covered by a clean tarpaulin. The tarpaulin shall be properly secured and shall extend at least 300mm over the edges of the side and tail boards.	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.	. 0	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	juence A)								
6.1	Annex A	Construction of seawalls to be advanced by at least 200m before the main reclamation dredging and filling can commence. The protection by advanced seawall is a dynamic process depending on the progress of the construction activities and the stage when such protection could be realised is illustrated in Figure 6.2a and detailed in Appendix D6a. The part of the works where such measures can be undertaken for the majority of the time includes the following locations:	backfilling works	Contractor	TM-EIAO		Y		*
Figure 6.2a Appendix D6a		- TM-CLKL northern reclamation;							
6.1	-	a maximum of 50% public fill to be used for all seawall filling below +2.5mPD for TM-CLKL southern and northern landfalls.	TM-CLKL seawall filling	Contractor	TM-EIAO		Y		

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Environmental Mitigation and Enhancement Measure Implementation Schedule

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

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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	Imj	plementa Stages	tion	Status *
	Reference					D	С	О	
6.1	Annex A	For other parts of the reclamation works construction of seawalls to be advanced by at least 200m before the main reclamation dredging and filling can commence. It should be noted that the protection by advanced seawall is a dynamic process depending on the progress of the construction activities and the stage when such protection could be realised is illustrated in Figure 6.2b and detailed in Appendices D6b. The part of the works where such measures can be undertaken for the majority of the time includes the following locations:	Portion D of HKBCF and HKLR	Contractor	TM-EIAO		Y		~
Figure 6.2b Appendix D6b		 TM-CLKL northern reclamation; Reclamation filling for Portion D of HKBCF; Reclamation filling for FSD berth of HKBCF; and Reclamation dredging and filling for Portion 1 of HKLR; 							
6.1	-	· · · · · · · · · · · · · · · · · · ·	All other areas/backfilling works	Contractor	TM-EIAO		Y		N/A
6.1	5. <i>7</i>	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		*

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Tuen Mun - Chek Lap Kok Link

Northern Connection Sub-sea Tunnel Section

Environmental Mitigation and Enhancement Measure Implementation Schedule

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

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Environmental Mitigation and Enhancement Measure Implementation Schedule

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

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Environmental Mitigation and Enhancement Measure Implementation Schedule

EIA Reference	EM&A Manual	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Imp	olementa Stages	tion	Status *
	Reference					D	C	0	
Land Works									
6.1	-	Wastewater from temporary site facilities should be controlled to prevent direct discharge to surface or marine waters.	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		✓
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		

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Environmental Mitigation and Enhancement Measure Implementation Schedule

EIA Reference	EM&A Manual	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Imp	olementa Stages	tion	Status *
	Reference					D	C	O	
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		✓
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 petro interceptor in accordance with the requirements of the WPCO of collected for off site disposal.	construction period l	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		√

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Environmental Mitigation and Enhancement Measure Implementation Schedule

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

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	Reference					D	C	O	
8.15	6.3, 6.4	Pre-construction phase survey and coral translocation	Detailed Design/Prior to construction	Design Consultant/ Contractor	TMEIA	Y	Y		*
8.15	6.5	Audit coral translocation success	Post translocation	Contractor	TMEIA		Y		✓
7.13	6.5	The loss of habitat shall be supplemented by enhancement planting in accordance with the landscape mitigation schedule.	All areas / As soon as accessible	Contractor	TMEIA		Y		N/A
7.13	6.5	Spoil heaps shall be covered at all times.	All areas / Throughout construction period	Contractor	TMEIA		Y		√
7.13	6.5	Avoid damage and disturbance to the remaining and surrounding natural habitat	All areas / Throughout construction period	Contractor	TMEIA		Y		✓
7.13	6.5	Placement of equipment in designated areas within the existing disturbed land	All areas / Throughout construction period	Contractor	TMEIA		Y		√
7.13	6.5	Disturbed areas to be reinstated immediately after completion of the works.	All areas / Throughout construction period	Contractor	TMEIA		Y		√
7.13	6.5	Construction activities should be restricted to the proposed works boundary.	All areas / Throughout construction period	Contractor	TMEIA		Y		✓
LANDSCAPE 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		√

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	Reference					D	С	О	
10.9	7.6	Aesthetically pleasing design (visually unobtrusive and non-reflective) as regard to the form, material and finishes shall be incorporated to all buildings, engineering structures and associated infrastructure facilities (OM5)	All areas/detailed design/ during construction / during operation	Design Consultant/ Contractor	TMEIA	Y	Y	Y	N/A
10.9	7.6	Avoidance of excessive height and bulk of buildings and structures (OM6)	All areas/detailed design/ during construction / during operation	Design Consultant/ Contractor	TMEIA	Y	Y	Y	N/A
WASTE									
12.6		The Contractor shall identify a coordinator for the management of waste.	Contract mobilisation	Contractor	TMEIA		Y		√
12.6		The Contractor shall prepare and implement a 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		Υ		√

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	Reference					D	C	O	
12.6		The Contractor shall apply for and obtain the appropriate licenses for the disposal of public fill, chemical waste and effluent discharges.	Contract mobilisation	Contractor	TMEIA, Land (Miscellaneous Provisions) Ordinance (Cap 28); Waste Disposal Ordinance (Cap 354); Dumping at Sea Ordinance (Cap 466); Water Pollution Control Ordinance.		Y		*
12.6	8.1	Training shall be provided to workers about the concepts of site cleanliness and appropriate waste management procedures including waste reduction, reuse and recycling.		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		✓
12.6	8.1	No waste shall be burnt on site.	All areas / throughout construction period	Contractor	TMEIA		Y		✓
12.6	8.1	Provisions to be made in contract documents to allow and promote the use of recycled aggregates where appropriate.	Detailed Design	Design Consultant	TMEIA	Y			✓
12.6	8.1	The Contractor shall be prohibited from disposing of C&D materials at any sensitive locations. The Contractor should propose the final disposal sites in the EMP and WMP for approval before implementation.	construction period	Contractor	TMEIA		Y		√
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		<>

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	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Imj	plementa Stages	tion	Status *
	Reference					D	C	О	
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 Reclamation areas / throughout disposal ground under the requirements of the Dumping at Seas dredging works 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.	f construction period l l	Contractor	TMEIA		Y		*
12.6	8.1	The Contractor should recycle as many C&D materials (this is a waste section) as possible on-site. The public fill and C&D waste should be segregated and stored in separate containers or skips to facilitate the reuse or recycling of materials and proper disposal. Where practicable, the concrete and masonry should be crushed and used as fill materials. Steel reinforcement bar should be collected for use by scrap steel mills. Different areas of the sites should be considered for segregation and storage activities.	e construction period) I	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;	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	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Imp	olementa Stages	tion	Status *
	Reference					D	C	О	
		f Having a capacity of <450L unless the specifications have been approved by the EPD; and f Displaying a label in English and 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 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

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	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Imp	olementa Stages	tion	Status *
	Reference					D	С	O	
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.		Contractor	TMEIA		Y		√
12.6	8.1	Office wastes can be reduced by recycling of paper if such volume is sufficiently large to warrant collection. Participation in a local collection scheme by the Contractor should be advocated. Waste separation facilities for paper, aluminium cans, plastic bottles, etc should be provided on-site.	construction period	Contractor	TMEIA		Y		✓
12.6	Section 8	EM&A of waste handling, storage, transportation, disposal procedures and documentation through the site audit programme shall be undertaken.		Contractor	EM&A Manual		Y		√
CULTURAL H	ERITAGE								
11.8	Section 9	EM&A in the form of audit of the mitigation measures	All areas / throughout construction period	Highways Department	EIAO-TM		Y		N/A

* Remarks:

✓ Compliance of Mitigation Measures

Compliance of Mitigation but need improvement

x Non-compliance of Mitigation Measures

▲ Non-compliance of Mitigation Measures but rectified by Contractor

Δ Deficiency of Mitigation Measures but rectified by Contractor

N/A Not Applicable in Reporting Period

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

Appendix D

Summary of Action and Limit Levels

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

Parameters	Action	Limit
24 Hour TSP Level in μg/m ³	ASR1 = 213	260
	ASR5 = 238	
	AQMS1 = 213	
	ASR6 = 238	
	ASR10 = 214	
1 Hour TSP Level in μg /m³	ASR1 = 331	500
	ASR5 = 340	
	AQMS1 = 335	
	ASR6 = 338	
	ASR10 = 337	

Table D2 Action and Limit Levels for Impact Dolphin Monitoring

	North Lant	tau 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 baseling	ne & ANI < 40% of baseline				

Notes:

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

Table D3 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	and
	NWL = [STG <	3.9 & ANI <17.9]

Appendix E

Copies of Calibration Certificates for Air Quality Monitoring

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

Location : ASR 5
Calibrated by : P.F.Yeung
Date : 10/10/2015

Sampler

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

Calibration Orfice and Standard Calibration Relationship

Serial Number : 2454

 Service Date
 : 24 Mar 2015

 Slope (m)
 : 2.09532

 Intercept (b)
 : -0.03812

 Correlation Coefficient(r)
 : 0.99994

Standard Condition

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

Calibration Condition

Pa (hpa) : 1014 Ta(K) : 299

Resi	stance Plate	dH [green liquid]	Z	X=Qstd	IC	Y
		(inch water)		(cubic meter/min)	(chart)	(corrected)
1	18 holes	11.8	3.431	1.656	55	54.94
2	13 holes	9.4	3.062	1.480	50	49.94
3	10 holes	7.0	2.643	1.279	44	43.95
4	7 holes	4.8	2.188	1.063	36	35.96
5	5 holes	2.8	1.671	0.816	28	27.97

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

Sampler Calibration Relationship (Linear Regression)

Slope(m): 32.462 Intercept(b): 1.692 Correlation Coefficient(r): 0.9990

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

Location : ASR10
Calibrated by : P.F.Yeung
Date : 10/10/2015

Sampler

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

Calibration Orfice and Standard Calibration Relationship

Serial Number : 2454

 Service Date
 : 24 Mar 2015

 Slope (m)
 : 2.09532

 Intercept (b)
 : -0.03812

 Correlation Coefficient(r)
 : 0.99994

Standard Condition

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

Calibration Condition

Pa (hpa) : 1014 Ta(K) : 299

Resi	stance Plate	dH [green liquid]	Z	X=Qstd	IC	Y
		(inch water)		(cubic meter/min)	(chart)	(corrected)
1	18 holes	11.6	3.402	1.642	57	56.93
2	13 holes	9.8	3.127	1.510	52	51.94
3	10 holes	7.6	2.754	1.332	46	45.95
4	7 holes	4.8	2.188	1.063	38	37.96
5	5 holes	2.93	1.710	0.834	30	29.96

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

Sampler Calibration Relationship (Linear Regression)

 $Slope(m): \underline{32.799} \quad Intercept(b): \underline{2.688} \quad Correlation \ Coefficient(r): \underline{0.9993}$

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

Location : AQMS1
Calibrated by : P.F.Yeung
Date : 10/10/2015

Sampler

 Model
 :
 TE-5170

 Serial Number
 :
 S/N 1253

Calibration Orfice and Standard Calibration Relationship

 Serial Number
 : 2454

 Service Date
 : 24 Mar 2015

 Slope (m)
 : 2.09532

 Intercept (b)
 : -0.03812

 Correlation Coefficient(r)
 : 0.99994

Standard Condition

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

Calibration Condition

Pa (hpa) : 1014 Ta(K) : 299

Resistance Plate		dH [green liquid]	Z	X=Qstd	IC	Y
		(inch water)		(cubic meter/min)	(chart)	(corrected)
1	18 holes	11.6	3.402	1.642	53	52.94
2	13 holes	9.2	3.030	1.464	47	46.94
3	10 holes	6.6	2.566	1.243	40	39.95
4	7 holes	4.2	2.047	0.995	32	31.96
5	5 holes	2.9	1.701	0.830	26	25.97

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

Sampler Calibration Relationship (Linear Regression)

Slope(m):32.903 Intercept(b):-1.074 Correlation Coefficient(r): 0.9998

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

Location : ASR 1
Calibrated by : P.F.Yeung
Date : 10/10/2015

Sampler

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

Calibration Orfice and Standard Calibration Relationship

Serial Number : 2454

 Service Date
 : 24 Mar 2015

 Slope (m)
 : 2.09532

 Intercept (b)
 : -0.03812

 Correlation Coefficient(r)
 : 0.99994

Standard Condition

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

Calibration Condition

Pa (hpa) : 1014 Ta(K) : 299

Resistance Plate dH [gree		dH [green liquid]	Z	X=Qstd	IC	Y
		(inch water)		(cubic meter/min)	(chart)	(corrected)
1	18 holes	11.8	3.431	1.656	55	54.94
2	13 holes	9.4	3.062	1.480	50	49.94
3	10 holes	7.0	2.643	1.279	44	43.95
4	7 holes	4.8	2.188	1.063	36	35.96
5	5 holes	2.8	1.671	0.816	28	27.97

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

Sampler Calibration Relationship (Linear Regression)

Slope(m): 32.462 Intercept(b): 1.692 Correlation Coefficient(r): 0.9990

High-Volume TSP Sampler 5-Point Calibration Record

Location : ASR 6
Calibrated by : P.F.Yeung
Date : 10/10/2015

Sampler

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

Calibration Orfice and Standard Calibration Relationship

Serial Number : 2454

 Service Date
 : 24 Mar 2015

 Slope (m)
 : 2.09532

 Intercept (b)
 : -0.03812

 Correlation Coefficient(r)
 : 0.99994

Standard Condition

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

Calibration Condition

Pa (hpa) : 1014 Ta(K) : 299

				1		ı
Resi	stance Plate	dH [green liquid]	Z	X=Qstd	IC	Y
		(inch water)		(cubic meter/min)	(chart)	(corrected)
1	18 holes	12.0	3.460	1.669	54	53.94
2	13 holes	9.8	3.127	1.510	48	47.94
3	10 holes	7.1	2.661	1.288	41	40.95
4	7 holes	4.5	2.119	1.029	33	32.96
5	5 holes	2.8	1.671	0.816	26	25.97

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)



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

ORIFICE TRANSFER STANDARD CERTIFICATION WORKSHEET TE-5025A

	Date - Mar 24, 2015 Rootsmeter S/N 0438320 Ta (K) - 292 Operator Tisch Orifice I.D 2454 Pa (mm) - 756.92							
PLATE OR Run # 1 2 3 4 5	VOLUME START (m3) NA NA NA NA NA	VOLUME STOP (m3) NA NA NA NA NA	DIFF VOLUME (m3) 1.00 1.00 1.00 1.00	DIFF TIME (min) 1.4460 1.0300 0.9180 0.8780 0.7240	METER DIFF Hg (mm) 3.2 6.4 7.9 8.7 12.6	ORFICE DIFF H2O (in.) 2.00 4.00 5.00 5.50 8.00		

DATA TABULATION

Vstd	(x axis) Qstd	(y axis)		Va	(x axis) Qa	(y axis)	
1.0121 1.0078 1.0057 1.0047 0.9994	0.6999 0.9785 1.0955 1.1443 1.3805	1.4258 2.0163 2.2543 2.3644 2.8515		0.9958 0.9916 0.9895 0.9885 0.9833	0.6886 0.9627 1.0779 1.1258 1.3582	0.8784 1.2422 1.3888 1.4566 1.7568	
Qstd slop intercept coefficie	t (b) =	2.09532 -0.03812 0.99994	Processor Control of the Control of	Qa slop intercep coeffici	t (b) =	1.31205 -0.02349 0.99994	
y axis =	SQRT [H2O (Pa/760)(298/	Ta)]	y axis =	SQRT[H2O(Ta/Pa)]	

CALCULATIONS

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

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

For subsequent flow rate calculations:

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

ENVIROTECH SERVICES CO.

29 June 2015

Date of Calibration:

Calibration Report of Wind Meter

		a
Brand of Test Meter:	Davis	
Model:	Weather Wizard III (s/n: WE90911A30)	<u>.</u>
Location:	ASR5	-
Procedures:		Sec.
1. Wind Still Test:	The wind speed sensor was hold by hand u	ntil it keep still
2.Wind Speed Test:	The wind meter was on-site calibrated again	nst the Anemometer
3.Wind Direction Test	: The wind meter was on-site calibrated agai	nst the marine compass at four directions
Results:		
Wind Still Test		
	Wind Speed (m/s)	
	0.00]
Wind Speed Test		
	Davis (m/s)	Anemomete (m/s)
	1.9	1.8
	2.4	2.2
	2.9	3.1
Wind Direction Test		
	Davis (o)	Marine Compass (o)
	269	270
	1	0 -

Calibrated by:

Yeung Ping Fai

(Technical Officer)

88

181

Checked by:

Ho Kam Fat

(Senior Technical Officer)

90 180

ENVIROTECH SERVICES CO.

Calibration Report of Wind Meter

Date of Calibration:	10 November 2015
Brand of Test Meter:	Davis
Model:	Weather Wizard III (s/n: WE90911A30)
Location:	ASR5

Procedures:

1. Wind Still Test:

The wind speed sensor was hold by hand until it keep still

2. Wind Speed Test:

The wind meter was on-site calibrated against the Anemometer

3. Wind Direction Test: The wind meter was on-site calibrated against the marine compass at four directions

Results:

Wind Still Test

Wind Speed (m/s)	ži.
0.00	

Wind Speed Test

Davis (m/s)	Anemomete (m/s)
1.6	1.4
 2.1	2.5
2.5	2.9

Wind Direction Test

Davis (o)	Marine Compass (o)
271	270
2	0
91	90
179	180

Calibrated by:

Yeung Ping Fai

(Technical Officer)

Checked by :

Ho Kam Fat

(Senior Technical Officer)



輝創工程有限公司

Sun Creation Engineering Limited

Calibration and Testing Laboratory

Certificate of Calibration 校正證書

Certificate No.: C153422

證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號: IC15-1330)

Date of Receipt / 收件日期: 10 June 2015

Description / 儀器名稱 : Manufacturer / 製造商 : Anemometer Lutron

Model No. /型號

AM-4201

Serial No. / 編號

AF.27513

Supplied By / 委託者

Envirotech Services Co.

Shop 6, G/F., Casio Mansion, 209 Shaukeiwan Road,

Hong Kong

TEST CONDITIONS/測試條件

Temperature / 温度 :

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

Relative Humidity / 相對濕度 :

 $(55 \pm 20)\%$

Line Voltage / 電壓 : --

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期

23 June 2015

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

C F Leung

Project Engineer

Certified By

核證

Chan the Chan

Date of Issue 簽發日期 23 June 2015

Engineer

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

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。

Sun Creation Engineering Limited - Calibration & Testing Laboratory

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

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

Tel/電話: 2927 2606 Fax/傳真: 2744 8986

E-mail/電郵: callab(a suncreation.com

Website/網址: www.suncreation.com

Sun Creation Engineering Limited

Calibration and Testing Laboratory

Certificate of Calibration 校正證書

Certificate No.: C153422

證書編號

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

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.

S12109

Test procedure: MA130N. 4.

5. Results:

Air Velocity

Applied	UUT	Measured Correction						
Value	Reading	Value	ertainty					
(m/s)	(m/s)	(m/s)	Expanded Uncertainty (m/s)	Coverage Factor				
1.9	1.8	+0.1	0.2	2.0				
4.0	3.9	+0.1	0.2	2.0				
6.0	6.0	0.0	0.3	2.0				
8.0	8.1	-0.1	0.3	2.0				
10.0	10.3	-0.3	0.4	2.0				

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

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

Note:

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

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

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

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 2015

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

7 in quanty morntoning state	JIIS. AGNT, AGNG, AGNG, A					
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1-Nov	2-Nov	3-Nov	4-Nov	5-Nov	6-Nov	7-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
Impact AQM			Impact AQM			Impact AQM
8-Nov	9-Nov		11-Nov			14-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	
15-Nov	16-Nov		18-Nov		20-Nov	21-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		
22-Nov	23-Nov			26-Nov	27-Nov	28-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
Impact AQM			Impact AQM			Impact AQM
29-Nov	30-Nov		puoti i qui			

HY/2012/08 - Tuen Mun - Chek Lap Kok Link Northern Connection Sub-sea Tunnel Section Tentative Air Quality Impact Monitoring Schedule - December 2015

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

All quality morntoning statis	ons: ASR1, ASR5, ASR6, A	I AQINOT				
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		01-Dec	02-Dec	03-Dec	04-Dec	05-Dec
		1-hour TSP - 3 times			1-hour TSP - 3 times	
		24-hour TSP - 1 time			24-hour TSP - 1 time	
00.0	07.0	Impact AQM	00 Dan		Impact AQM	40 D
06-Dec	07-Dec	08-Dec	09-Dec	10-Dec 1-hour TSP - 3 times	11-Dec	12-Dec
	24-hour TSP - 1 time			24-hour TSP - 1 time		
	Loon of ACNA			Lanca and A ONA		
42 Dec	Impact AQM	15-Dec	16-Dec	Impact AQM 17-Dec	18-Dec	40 Dec
13-Dec	14-Dec			17-Dec	18-Dec	19-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
Improper ACM			lange of ACM			Langue et AOM
Impact AQM 20-Dec	21-Dec		Impact AQM 23-Dec	24 Doo	public holiday 25-Dec	Impact AQM public holiday 26-Dec
20-Dec	21-Dec	1-hour TSP - 3 times			1-hour TSP - 3 times	public holiday 26-Dec
		24-hour TSP - 1 time			24-hour TSP - 1 time	
		24-flour TSP - Tullie			24-11001 13P - 1 tillle	
		Impact AQM			Impact AQM	
27-Dec	28-Dec		30-Dec		Impact AQIVI	
21-060	1-hour TSP - 3 times	29-060	30-Dec	1-hour TSP - 3 times		
	24-hour TSP - 1 time			24-hour TSP - 1 time		
	24 11001 101 1 111116					
	Impact AQM			Impact AQM		

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

HY/2012/08 - Tuen Mun - Chek Lap Kok Link Northern Connection Sub-sea Tunnel Section ""Impact Dolphin Monitoring Survey Monitoring Schedule - November 2015

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

HY/2012/08 - Tuen Mun - Chek Lap Kok Link Northern Connection Sub-sea Tunnel Section Tentative Impact Dolphin Monitoring Survey Monitoring Schedule - December 2015

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		01-Dec		03-Dec	04-Dec	05-Dec
			Impact Dolphin Monitoring			
06-Dec	07-Dec	08-Dec	09-Dec	10-Dec	11-Dec	12-Dec
	Impact Dolphin Monitoring			Impact Dolphin Monitoring		
13-Dec	14-Dec	15-Dec	16-Dec	17-Dec	18-Dec	19-Dec
	Impact Dolphin Monitoring					
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

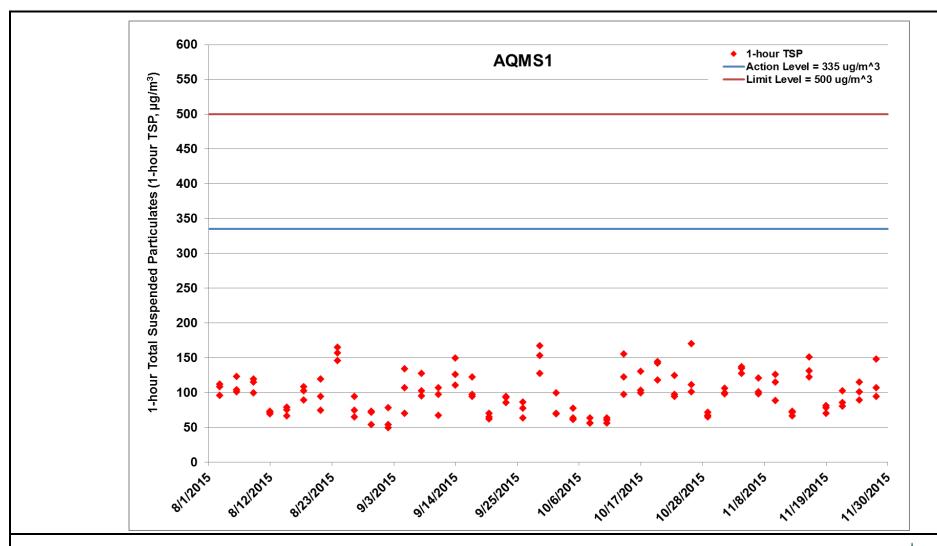


Figure G.1 Impact Monitoring – 1-hour Total Suspended Particulates (μg/m³) at AQMS1 between 1 August 2015 and 30 November 2015 during impact monitoring period. The weather conditions during the monitoring period varied from sunny to cloudy. Major land-based construction activities included: Construction of capping beam and base slab for Ventilation Shaft at Works Area – Portion N-C (1/8/2015 – 30/11/2015) and Box Culvert Extension (1/8/2015 – 30/11/2015). Ref: 0212330_Impact AQM graphs_November 2015_REV a.xlsx



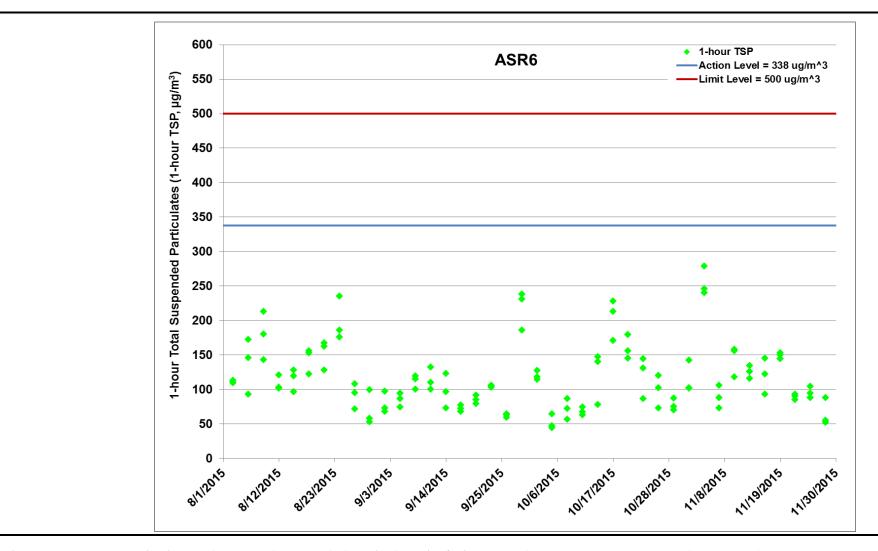


Figure G.2 Impact Monitoring – 1-hour Total Suspended Particulates (μg/m³) at ASR6 between 1 August 2015 and 30 November 2015 during impact monitoring period. The weather conditions during the monitoring period varied from sunny to cloudy. Major land-based construction activities included: Construction of capping beam and base slab for Ventilation Shaft at Works Area – Portion N-C (1/8/2015 – 30/11/2015) and Box Culvert Extension (1/8/2015 – 30/11/2015). Ref: 0212330_Impact AQM graphs_November 2015_REV a.xlsx



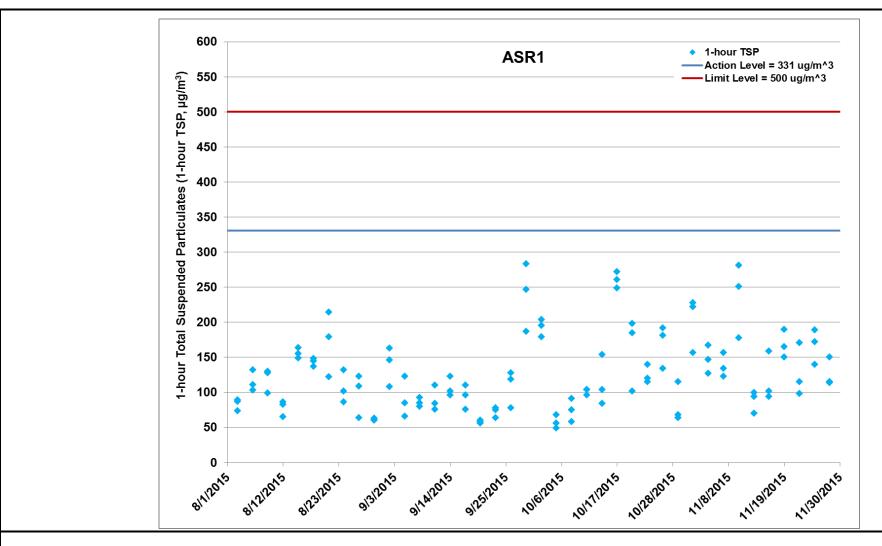


Figure G.3 Impact Monitoring – 1-hour Total Suspended Particulates (μg/m³) at ASR1 between 1 August 2015 and 30 November 2015 during impact monitoring period. The weather conditions during the monitoring period varied from sunny to cloudy. Major land-based construction activities included: Construction of capping beam and base slab for Ventilation Shaft at Works Area – Portion N-C (1/8/2015 – 30/11/2015) and Box Culvert Extension (1/8/2015 – 30/11/2015). Ref: 0212330_Impact AQM graphs_November 2015_REV a.xlsx



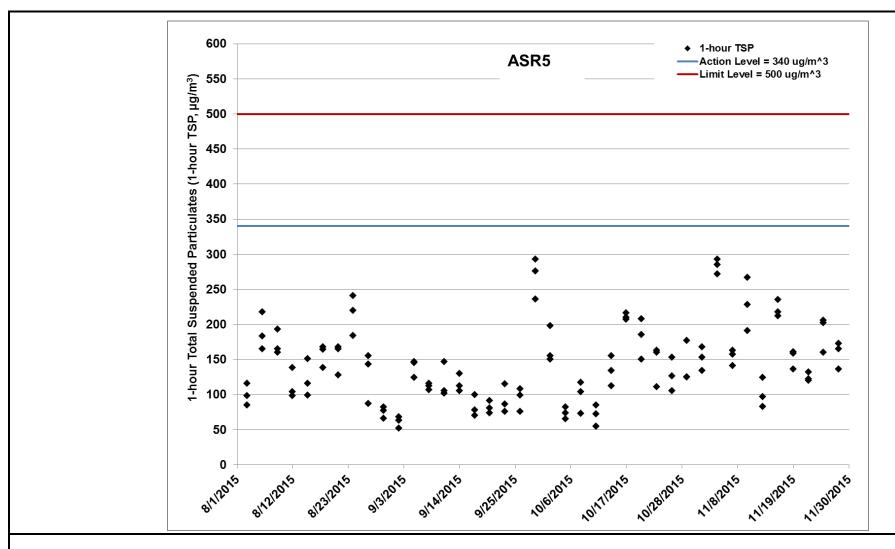


Figure G.4 Impact Monitoring – 1-hour Total Suspended Particulates (μg/m³) at ASR5 between 1 August 2015 and 30 November 2015 during impact monitoring period. The weather conditions during the monitoring period varied from sunny to cloudy. Major land-based construction activities included: Construction of capping beam and base slab for Ventilation Shaft at Works Area – Portion N-C (1/8/2015 – 30/11/2015) and Box Culvert Extension (1/8/2015 – 30/11/2015). Ref: 0212330_Impact AQM graphs_November 2015_REV a.xlsx



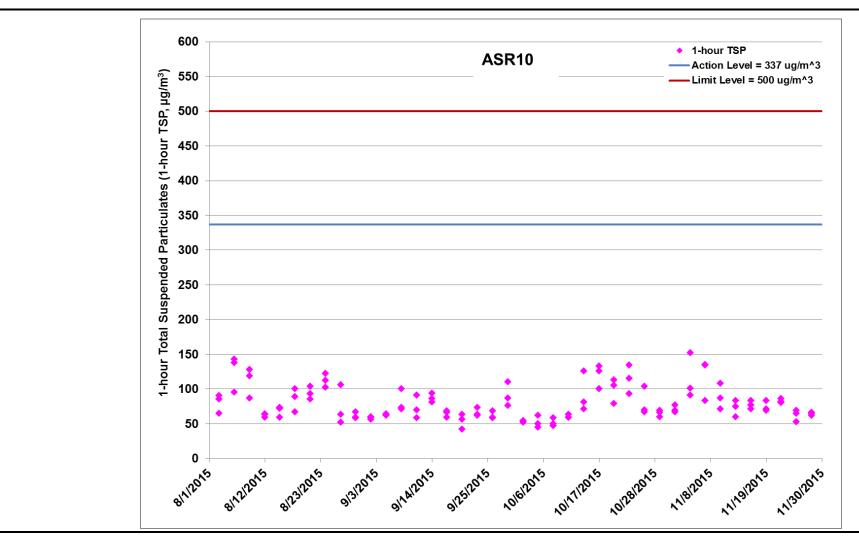


Figure G.5 Impact Monitoring – 1-hour Total Suspended Particulates (μg/m³) at ASR10 between 1 August 2015 and 30 November 2015 during impact monitoring period. The weather conditions during the monitoring period varied from sunny to cloudy. Major land-based construction activities included: Construction of capping beam and base slab for Ventilation Shaft at Works Area – Portion N-C (1/8/2015 – 30/11/2015) and Box Culvert Extension (1/8/2015 – 30/11/2015). Ref: 0212330_Impact AQM graphs_November 2015_REV a.xlsx



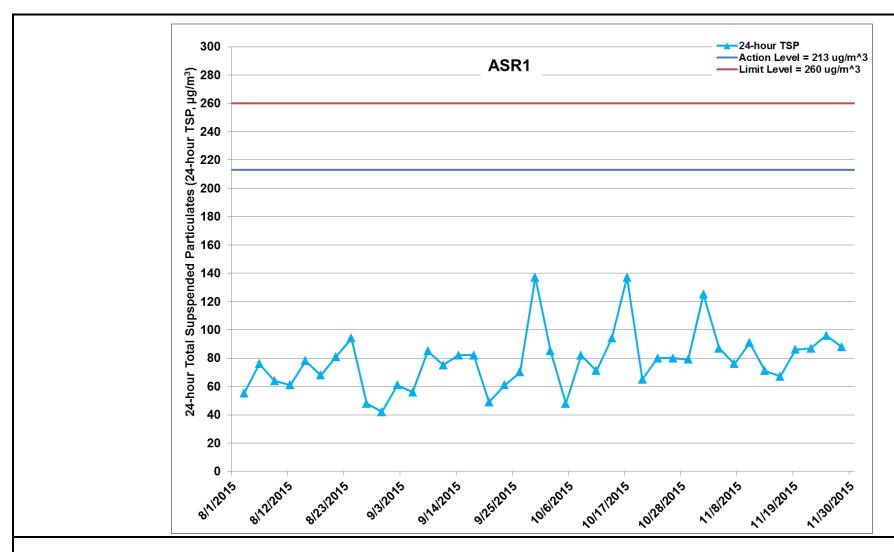


Figure G.6 Impact Monitoring – 24-hour Total Suspended Particulates (μg/m³) at ASR1 between 1 August 2015 and 30 November 2015 during impact monitoring period. The weather conditions during the monitoring period varied from sunny to cloudy. Major land-based construction activities included: Construction of capping beam and base slab for Ventilation Shaft at Works Area – Portion N-C (1/8/2015 – 30/11/2015) and Box Culvert Extension (1/8/2015 – 30/11/2015). Ref: 0212330_Impact AQM graphs_November 2015_REV a.xlsx



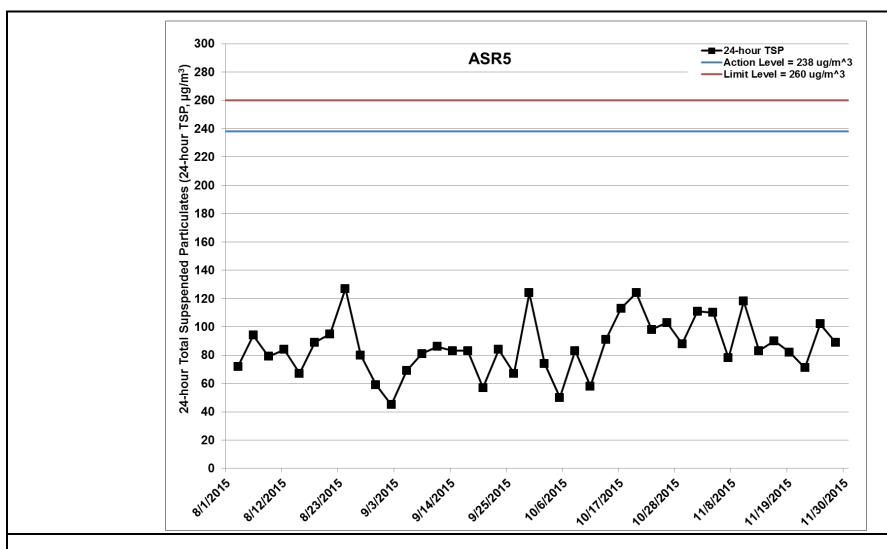


Figure G.7 Impact Monitoring – 24-hour Total Suspended Particulates (μg/m³) at ASR5 between 1 August 2015 and 30 November 2015 during impact monitoring period. The weather conditions during the monitoring period varied from sunny to cloudy. Major land-based construction activities included: Construction of capping beam and base slab for Ventilation Shaft at Works Area – Portion N-C (1/8/2015 – 30/11/2015) and Box Culvert Extension (1/8/2015 – 30/11/2015). Ref: 0212330_Impact AQM graphs_November 2015_REV a.xlsx



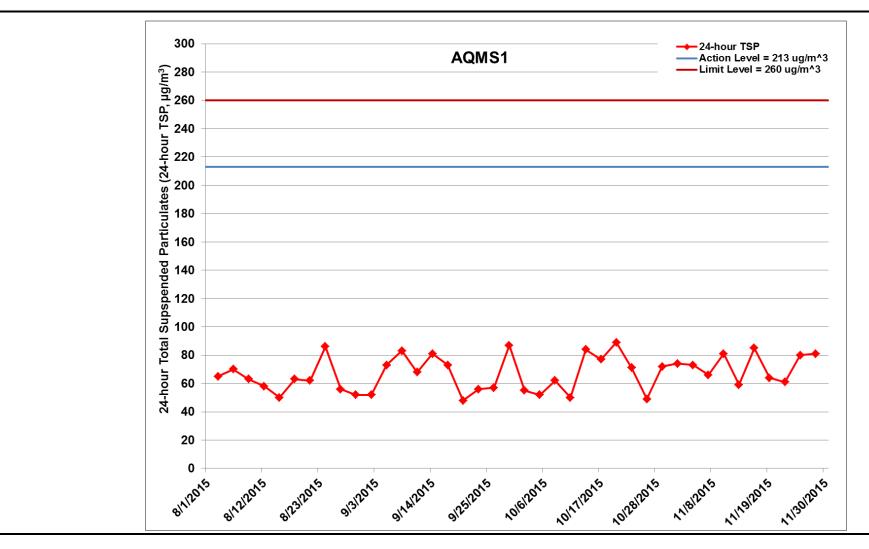


Figure G.8 Impact Monitoring – 24-hour Total Suspended Particulates (μg/m³) at AQMS1 between 1 August 2015 and 30 November 2015 during impact monitoring period. The weather conditions during the monitoring period varied from sunny to cloudy. Major land-based construction activities included: Construction of capping beam and base slab for Ventilation Shaft at Works Area – Portion N-C (1/8/2015 – 30/11/2015) and Box Culvert Extension (1/8/2015 – 30/11/2015). *Ref:* 0212330_Impact AQM graphs_November 2015_REV a.xlsx



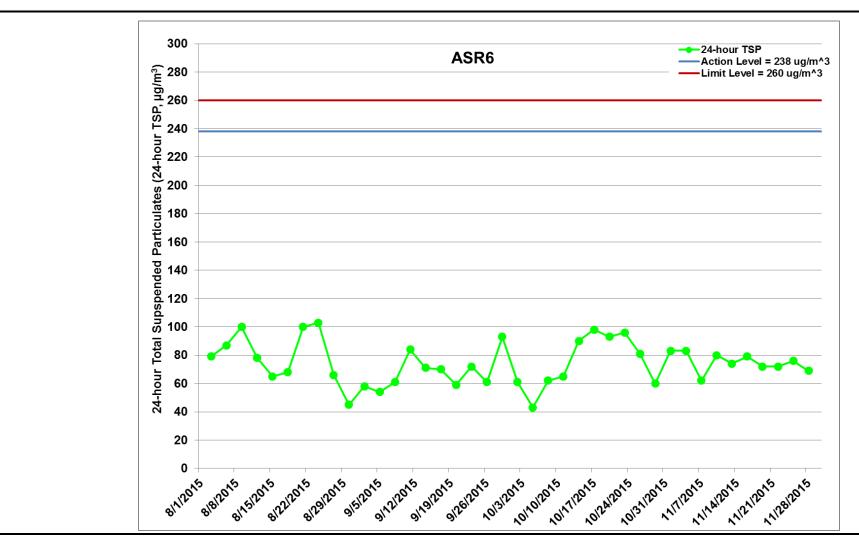


Figure G.9 Impact Monitoring – 24-hour Total Suspended Particulates (μg/m³) at ASR6 between 1 August 2015 and 30 November 2015 during impact monitoring period. The weather conditions during the monitoring period varied from sunny to cloudy. Major land-based construction activities included: Construction of capping beam and base slab for Ventilation Shaft at Works Area – Portion N-C (1/8/2015 – 30/11/2015) and Box Culvert Extension (1/8/2015 – 30/11/2015). Ref: 0212330_Impact AQM graphs_November 2015_REV a.xlsx



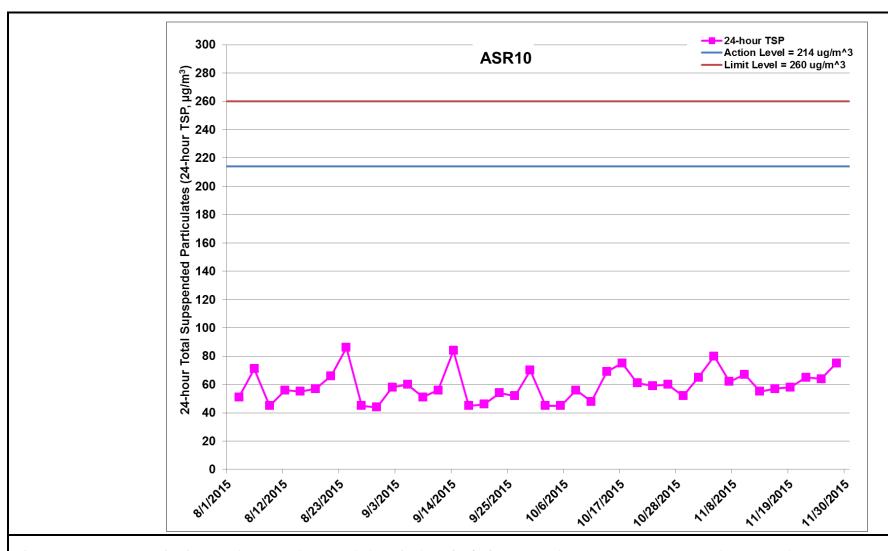


Figure G.10 Impact Monitoring – 24-hour Total Suspended Particulates (μg/m³) at ASR10 between 1 August 2015 and 30 November 2015 during impact monitoring period. The weather conditions during the monitoring period varied from sunny to cloudy. Major land-based construction activities included: Construction of capping beam and base slab for Ventilation Shaft at Works Area – Portion N-C (1/8/2015 – 30/11/2015) and Box Culvert Extension (1/8/2015 – 30/11/2015). Ref: 0212330_Impact AQM graphs_November 2015_REV a.xlsx



Project	Works	Date	Station	Weather	Start time	Parameters	Results	units
TMCLKL	HY/2012/08	2015-11-01	ASR10	Sunny	13:03	1-hour TSP	69	ug/m3
TMCLKL	HY/2012/08	2015-11-01	ASR10	Sunny	14:05	1-hour TSP	77	ug/m3
TMCLKL	HY/2012/08	2015-11-01	ASR10	Sunny	15:07	1-hour TSP	67	ug/m3
TMCLKL	HY/2012/08	2015-11-01	ASR6	Sunny	13:13	1-hour TSP	142	ug/m3
TMCLKL	HY/2012/08	2015-11-01	ASR6	Sunny	14:15	1-hour TSP	101	ug/m3
TMCLKL	HY/2012/08	2015-11-01	ASR6	Sunny	15:17	1-hour TSP	102	ug/m3
TMCLKL	HY/2012/08	2015-11-01	ASR5	Sunny	13:23	1-hour TSP	168	ug/m3
TMCLKL	HY/2012/08	2015-11-01	ASR5	Sunny	14:25	1-hour TSP	153	ug/m3
TMCLKL	HY/2012/08	2015-11-01	ASR5	Sunny	15:27	1-hour TSP	134	ug/m3
TMCLKL	HY/2012/08	2015-11-01	ASR1	Sunny	13:35	1-hour TSP	228	ug/m3
TMCLKL	HY/2012/08	2015-11-01	ASR1	Sunny	14:37	1-hour TSP	222	ug/m3
TMCLKL	HY/2012/08	2015-11-01	ASR1	Sunny	15:39	1-hour TSP	157	ug/m3
TMCLKL	HY/2012/08	2015-11-01	AQMS1	Sunny	14:47	1-hour TSP	106	ug/m3
TMCLKL	HY/2012/08	2015-11-01	AQMS1	Sunny	15:49	1-hour TSP	99	ug/m3
TMCLKL	HY/2012/08	2015-11-01	AQMS1	Sunny	16:51	1-hour TSP	98	ug/m3
TMCLKL	HY/2012/08	2015-11-04	ASR10	Sunny	13:56	1-hour TSP	91	ug/m3
TMCLKL	HY/2012/08	2015-11-04	ASR10	Sunny	14:58	1-hour TSP	152	ug/m3
TMCLKL	HY/2012/08	2015-11-04	ASR10	Sunny	16:00	1-hour TSP	101	ug/m3
TMCLKL	HY/2012/08	2015-11-04	ASR6	Sunny	14:07	1-hour TSP	246	ug/m3
TMCLKL	HY/2012/08	2015-11-04	ASR6	Sunny	15:09	1-hour TSP	279	ug/m3
TMCLKL	HY/2012/08	2015-11-04	ASR6	Sunny	16:11	1-hour TSP	240	ug/m3
TMCLKL	HY/2012/08	2015-11-04	ASR5	Sunny	14:17	1-hour TSP	272	ug/m3
TMCLKL	HY/2012/08	2015-11-04	ASR5	Sunny	15:19	1-hour TSP	285	ug/m3
TMCLKL	HY/2012/08	2015-11-04	ASR5	Sunny	16:21	1-hour TSP	293	ug/m3
TMCLKL	HY/2012/08	2015-11-04	ASR1	Sunny	14:28	1-hour TSP	147	ug/m3
TMCLKL	HY/2012/08	2015-11-04	ASR1	Sunny	15:30	1-hour TSP	167	ug/m3
TMCLKL	HY/2012/08	2015-11-04	ASR1	Sunny	16:32	1-hour TSP	127	ug/m3
TMCLKL	HY/2012/08	2015-11-04	AQMS1	Sunny	14:39	1-hour TSP	127	ug/m3
TMCLKL	HY/2012/08	2015-11-04	AQMS1	Sunny	15:41	1-hour TSP	137	ug/m3
TMCLKL	HY/2012/08	2015-11-04	AQMS1	Sunny	16:43	1-hour TSP	135	ug/m3

Project	Works	Date	Station	Weather	Start time	Parameters	Results	units
TMCLKL	HY/2012/08	2015-11-07	ASR10	Cloudy	08:00	1-hour TSP	135	ug/m3
TMCLKL	HY/2012/08	2015-11-07	ASR10	Cloudy	09:02	1-hour TSP	83	ug/m3
TMCLKL	HY/2012/08	2015-11-07	ASR10	Cloudy	10:04	1-hour TSP	134	ug/m3
TMCLKL	HY/2012/08	2015-11-07	ASR6	Cloudy	08:10	1-hour TSP	106	ug/m3
TMCLKL	HY/2012/08	2015-11-07	ASR6	Cloudy	09:12	1-hour TSP	73	ug/m3
TMCLKL	HY/2012/08	2015-11-07	ASR6	Cloudy	10:14	1-hour TSP	88	ug/m3
TMCLKL	HY/2012/08	2015-11-07	ASR5	Cloudy	08:21	1-hour TSP	163	ug/m3
TMCLKL	HY/2012/08	2015-11-07	ASR5	Cloudy	09:23	1-hour TSP	141	ug/m3
TMCLKL	HY/2012/08	2015-11-07	ASR5	Cloudy	10:25	1-hour TSP	157	ug/m3
TMCLKL	HY/2012/08	2015-11-07	ASR1	Cloudy	08:33	1-hour TSP	123	ug/m3
TMCLKL	HY/2012/08	2015-11-07	ASR1	Cloudy	09:35	1-hour TSP	134	ug/m3
TMCLKL	HY/2012/08	2015-11-07	ASR1	Cloudy	10:37	1-hour TSP	157	ug/m3
TMCLKL	HY/2012/08	2015-11-07	AQMS1	Cloudy	08:44	1-hour TSP	98	ug/m3
TMCLKL	HY/2012/08	2015-11-07	AQMS1	Cloudy	09:46	1-hour TSP	101	ug/m3
TMCLKL	HY/2012/08	2015-11-07	AQMS1	Cloudy	10:48	1-hour TSP	121	ug/m3
TMCLKL	HY/2012/08	2015-11-10	ASR10	Sunny	14:08	1-hour TSP	71	ug/m3
TMCLKL	HY/2012/08	2015-11-10	ASR10	Sunny	15:10	1-hour TSP	108	ug/m3
TMCLKL	HY/2012/08	2015-11-10	ASR10	Sunny	16:12	1-hour TSP	87	ug/m3
TMCLKL	HY/2012/08	2015-11-10	ASR6	Sunny	14:18	1-hour TSP	118	ug/m3
TMCLKL	HY/2012/08	2015-11-10	ASR6	Sunny	15:20	1-hour TSP	156	ug/m3
TMCLKL	HY/2012/08	2015-11-10	ASR6	Sunny	16:22	1-hour TSP	158	ug/m3
TMCLKL	HY/2012/08	2015-11-10	ASR5	Sunny	14:29	1-hour TSP	267	ug/m3
TMCLKL	HY/2012/08	2015-11-10	ASR5	Sunny	15:31	1-hour TSP	228	ug/m3
TMCLKL	HY/2012/08	2015-11-10	ASR5	Sunny	16:33	1-hour TSP	191	ug/m3
TMCLKL	HY/2012/08	2015-11-10	ASR1	Sunny	14:40	1-hour TSP	251	ug/m3
TMCLKL	HY/2012/08	2015-11-10	ASR1	Sunny	15:42	1-hour TSP	281	ug/m3
TMCLKL	HY/2012/08	2015-11-10	ASR1	Sunny	16:44	1-hour TSP	178	ug/m3
TMCLKL	HY/2012/08	2015-11-10	AQMS1	Sunny	14:51	1-hour TSP	115	ug/m3
TMCLKL	HY/2012/08	2015-11-10	AQMS1	Sunny	15:53	1-hour TSP	126	ug/m3
TMCLKL	HY/2012/08	2015-11-10	AQMS1	Sunny	16:55	1-hour TSP	88	ug/m3

Project	Works	Date	Station	Weather	Start time	Parameters	Results	units
TMCLKL	HY/2012/08	2015-11-13	ASR10	Sunny	13:07	1-hour TSP	60	ug/m3
TMCLKL	HY/2012/08	2015-11-13	ASR10	Sunny	14:09	1-hour TSP	83	ug/m3
TMCLKL	HY/2012/08	2015-11-13	ASR10	Sunny	15:11	1-hour TSP	75	ug/m3
TMCLKL	HY/2012/08	2015-11-13	ASR6	Sunny	13:17	1-hour TSP	126	ug/m3
TMCLKL	HY/2012/08	2015-11-13	ASR6	Sunny	14:19	1-hour TSP	134	ug/m3
TMCLKL	HY/2012/08	2015-11-13	ASR6	Sunny	15:21	1-hour TSP	116	ug/m3
TMCLKL	HY/2012/08	2015-11-13	ASR5	Sunny	13:28	1-hour TSP	97	ug/m3
TMCLKL	HY/2012/08	2015-11-13	ASR5	Sunny	14:30	1-hour TSP	124	ug/m3
TMCLKL	HY/2012/08	2015-11-13	ASR5	Sunny	15:32	1-hour TSP	83	ug/m3
TMCLKL	HY/2012/08	2015-11-13	ASR1	Sunny	13:40	1-hour TSP	94	ug/m3
TMCLKL	HY/2012/08	2015-11-13	ASR1	Sunny	14:42	1-hour TSP	100	ug/m3
TMCLKL	HY/2012/08	2015-11-13	ASR1	Sunny	15:44	1-hour TSP	70	ug/m3
TMCLKL	HY/2012/08	2015-11-13	AQMS1	Sunny	13:51	1-hour TSP	73	ug/m3
TMCLKL	HY/2012/08	2015-11-13	AQMS1	Sunny	14:53	1-hour TSP	71	ug/m3
TMCLKL	HY/2012/08	2015-11-13	AQMS1	Sunny	15:55	1-hour TSP	66	ug/m3
TMCLKL	HY/2012/08	2015-11-16	ASR1	Sunny	14:17	1-hour TSP	102	ug/m3
TMCLKL	HY/2012/08	2015-11-16	ASR1	Sunny	15:19	1-hour TSP	94	ug/m3
TMCLKL	HY/2012/08	2015-11-16	ASR1	Sunny	16:21	1-hour TSP	159	ug/m3
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TMCLKL	HY/2012/08	2015-11-16	AQMS1	Sunny	15:30	1-hour TSP	151	ug/m3
TMCLKL	HY/2012/08	2015-11-16	AQMS1	Sunny	16:32	1-hour TSP	131	ug/m3
TMCLKL	HY/2012/08	2015-11-16	ASR5	Sunny	14:06	1-hour TSP	235	ug/m3
TMCLKL	HY/2012/08	2015-11-16	ASR5	Sunny	15:08	1-hour TSP	218	ug/m3
TMCLKL	HY/2012/08	2015-11-16	ASR5	Sunny	16:10	1-hour TSP	212	ug/m3
TMCLKL	HY/2012/08	2015-11-16	ASR6	Sunny	13:55	1-hour TSP	93	ug/m3
TMCLKL	HY/2012/08	2015-11-16	ASR6	Sunny	15:59	1-hour TSP	122	ug/m3
TMCLKL	HY/2012/08	2015-11-16	ASR6	Sunny	14:57	1-hour TSP	145	ug/m3
TMCLKL	HY/2012/08	2015-11-16	ASR10	Sunny	13:43	1-hour TSP	77	ug/m3
TMCLKL	HY/2012/08	2015-11-16	ASR10	Sunny	14:45	1-hour TSP	83	ug/m3
TMCLKL	HY/2012/08	2015-11-16	ASR10	Sunny	15:47	1-hour TSP	71	ug/m3

Project	Works	Date	Station	Weather	Start time	Parameters	Results	units
TMCLKL	HY/2012/08	2015-11-19	ASR1	Sunny	14:45	1-hour TSP	165	ug/m3
TMCLKL	HY/2012/08	2015-11-19	ASR1	Sunny	15:47	1-hour TSP	190	ug/m3
TMCLKL	HY/2012/08	2015-11-19	ASR1	Sunny	16:49	1-hour TSP	150	ug/m3
TMCLKL	HY/2012/08	2015-11-19	AQMS1	Sunny	14:55	1-hour TSP	70	ug/m3
TMCLKL	HY/2012/08	2015-11-19	AQMS1	Sunny	15:57	1-hour TSP	81	ug/m3
TMCLKL	HY/2012/08	2015-11-19	AQMS1	Sunny	16:59	1-hour TSP	78	ug/m3
TMCLKL	HY/2012/08	2015-11-19	ASR5	Sunny	14:34	1-hour TSP	159	ug/m3
TMCLKL	HY/2012/08	2015-11-19	ASR5	Sunny	15:36	1-hour TSP	161	ug/m3
TMCLKL	HY/2012/08	2015-11-19	ASR5	Sunny	16:36	1-hour TSP	136	ug/m3
TMCLKL	HY/2012/08	2015-11-19	ASR6	Sunny	14:24	1-hour TSP	153	ug/m3
TMCLKL	HY/2012/08	2015-11-19	ASR6	Sunny	15:26	1-hour TSP	150	ug/m3
TMCLKL	HY/2012/08	2015-11-19	ASR6	Sunny	16:28	1-hour TSP	144	ug/m3
TMCLKL	HY/2012/08	2015-11-19	ASR10	Sunny	14:13	1-hour TSP	83	ug/m3
TMCLKL	HY/2012/08	2015-11-19	ASR10	Sunny	15:15	1-hour TSP	69	ug/m3
TMCLKL	HY/2012/08	2015-11-19	ASR10	Sunny	16:17	1-hour TSP	71	ug/m3
TMCLKL	HY/2012/08	2015-11-22	ASR10	Sunny	13:13	1-hour TSP	82	ug/m3
TMCLKL	HY/2012/08	2015-11-22	ASR10	Sunny	15:17	1-hour TSP	86	ug/m3
TMCLKL	HY/2012/08	2015-11-22	ASR10	Sunny	14:15	1-hour TSP	80	ug/m3
TMCLKL	HY/2012/08	2015-11-22	ASR1	Sunny	13:47	1-hour TSP	171	ug/m3
TMCLKL	HY/2012/08	2015-11-22	ASR1	Sunny	14:49	1-hour TSP	98	ug/m3
TMCLKL	HY/2012/08	2015-11-22	ASR1	Sunny	15:51	1-hour TSP	115	ug/m3
TMCLKL	HY/2012/08	2015-11-22	AQMS1	Sunny	13:58	1-hour TSP	102	ug/m3
TMCLKL	HY/2012/08	2015-11-22	AQMS1	Sunny	15:00	1-hour TSP	80	ug/m3
TMCLKL	HY/2012/08	2015-11-22	AQMS1	Sunny	16:02	1-hour TSP	85	ug/m3
TMCLKL	HY/2012/08	2015-11-22	ASR6	Sunny	13:25	1-hour TSP	90	ug/m3
TMCLKL	HY/2012/08	2015-11-22	ASR6	Sunny	14:27	1-hour TSP	85	ug/m3
TMCLKL	HY/2012/08	2015-11-22	ASR6	Sunny	15:29	1-hour TSP	93	ug/m3
TMCLKL	HY/2012/08	2015-11-22	ASR5	Sunny	13:35	1-hour TSP	120	ug/m3
TMCLKL	HY/2012/08	2015-11-22	ASR5	Sunny	14:37	1-hour TSP	122	ug/m3
TMCLKL	HY/2012/08	2015-11-22	ASR5	Sunny	15:39	1-hour TSP	132	ug/m3

Project	Works	Date	Station	Weather	Start time	Parameters	Results	units
TMCLKL	HY/2012/08	2015-11-25	ASR10	Sunny	13:28	1-hour TSP	53	ug/m3
TMCLKL	HY/2012/08	2015-11-25	ASR10	Sunny	14:30	1-hour TSP	65	ug/m3
TMCLKL	HY/2012/08	2015-11-25	ASR10	Sunny	15:32	1-hour TSP	69	ug/m3
TMCLKL	HY/2012/08	2015-11-25	ASR6	Sunny	13:39	1-hour TSP	88	ug/m3
TMCLKL	HY/2012/08	2015-11-25	ASR6	Sunny	14:41	1-hour TSP	94	ug/m3
TMCLKL	HY/2012/08	2015-11-25	ASR6	Sunny	15:43	1-hour TSP	104	ug/m3
TMCLKL	HY/2012/08	2015-11-25	ASR5	Sunny	13:50	1-hour TSP	160	ug/m3
TMCLKL	HY/2012/08	2015-11-25	ASR5	Sunny	14:52	1-hour TSP	202	ug/m3
TMCLKL	HY/2012/08	2015-11-25	ASR5	Sunny	15:54	1-hour TSP	206	ug/m3
TMCLKL	HY/2012/08	2015-11-25	ASR1	Sunny	14:02	1-hour TSP	140	ug/m3
TMCLKL	HY/2012/08	2015-11-25	ASR1	Sunny	15:04	1-hour TSP	189	ug/m3
TMCLKL	HY/2012/08	2015-11-25	ASR1	Sunny	16:06	1-hour TSP	172	ug/m3
TMCLKL	HY/2012/08	2015-11-25	AQMS1	Sunny	14:13	1-hour TSP	89	ug/m3
TMCLKL	HY/2012/08	2015-11-25	AQMS1	Sunny	15:15	1-hour TSP	101	ug/m3
TMCLKL	HY/2012/08	2015-11-25	AQMS1	Sunny	16:17	1-hour TSP	115	ug/m3
TMCLKL	HY/2012/08	2015-11-28	AQMS1	Sunny	13:45	1-hour TSP	94	ug/m3
TMCLKL	HY/2012/08	2015-11-28	AQMS1	Sunny	14:47	1-hour TSP	107	ug/m3
TMCLKL	HY/2012/08	2015-11-28	AQMS1	Sunny	15:49	1-hour TSP	148	ug/m3
TMCLKL	HY/2012/08	2015-11-28	ASR1	Sunny	13:33	1-hour TSP	115	ug/m3
TMCLKL	HY/2012/08	2015-11-28	ASR1	Sunny	14:35	1-hour TSP	114	ug/m3
TMCLKL	HY/2012/08	2015-11-28	ASR1	Sunny	15:37	1-hour TSP	150	ug/m3
TMCLKL	HY/2012/08	2015-11-28	ASR10	Sunny	13:00	1-hour TSP	66	ug/m3
TMCLKL	HY/2012/08	2015-11-28	ASR10	Sunny	14:02	1-hour TSP	62	ug/m3
TMCLKL	HY/2012/08	2015-11-28	ASR10	Sunny	15:04	1-hour TSP	65	ug/m3
TMCLKL	HY/2012/08	2015-11-28	ASR5	Sunny	13:22	1-hour TSP	136	ug/m3
TMCLKL	HY/2012/08	2015-11-28	ASR5	Sunny	14:24	1-hour TSP	165	ug/m3
TMCLKL	HY/2012/08	2015-11-28	ASR5	Sunny	15:26	1-hour TSP	173	ug/m3
TMCLKL	HY/2012/08	2015-11-28	ASR6	Sunny	13:10	1-hour TSP	88	ug/m3
TMCLKL	HY/2012/08	2015-11-28	ASR6	Sunny	14:12	1-hour TSP	52	ug/m3
TMCLKL	HY/2012/08	2015-11-28	ASR6	Sunny	15:14	1-hour TSP	55	ug/m3

Project	Works	Date	Station	Weather	Start time	Parameters	Results	units
TMCLKL	HY/2012/08	2015-11-01	ASR10	Sunny	16:09	24-hour TSP	65	ug/m3
TMCLKL	HY/2012/08	2015-11-01	ASR6	Sunny	16:19	24-hour TSP	83	ug/m3
TMCLKL	HY/2012/08	2015-11-01	ASR5	Sunny	16:29	24-hour TSP	111	ug/m3
TMCLKL	HY/2012/08	2015-11-01	ASR1	Sunny	16:41	24-hour TSP	125	ug/m3
TMCLKL	HY/2012/08	2015-11-01	AQMS1	Sunny	17:53	24-hour TSP	74	ug/m3
TMCLKL	HY/2012/08	2015-11-04	ASR10	Sunny	17:02	24-hour TSP	80	ug/m3
TMCLKL	HY/2012/08	2015-11-04	ASR6	Sunny	17:13	24-hour TSP	83	ug/m3
TMCLKL	HY/2012/08	2015-11-04	ASR5	Sunny	17:23	24-hour TSP	110	ug/m3
TMCLKL	HY/2012/08	2015-11-04	ASR1	Sunny	17:34	24-hour TSP	87	ug/m3
TMCLKL	HY/2012/08	2015-11-04	AQMS1	Sunny	17:45	24-hour TSP	73	ug/m3
TMCLKL	HY/2012/08	2015-11-07	ASR10	Sunny	11:06	24-hour TSP	62	ug/m3
TMCLKL	HY/2012/08	2015-11-07	ASR6	Sunny	11:16	24-hour TSP	62	ug/m3
TMCLKL	HY/2012/08	2015-11-07	ASR5	Sunny	11:27	24-hour TSP	78	ug/m3
TMCLKL	HY/2012/08	2015-11-07	ASR1	Sunny	11:39	24-hour TSP	76	ug/m3
TMCLKL	HY/2012/08	2015-11-07	AQMS1	Sunny	11:50	24-hour TSP	66	ug/m3
TMCLKL	HY/2012/08	2015-11-10	ASR10	Sunny	17:14	24-hour TSP	67	ug/m3
TMCLKL	HY/2012/08	2015-11-10	ASR6	Sunny	17:24	24-hour TSP	80	ug/m3
TMCLKL	HY/2012/08	2015-11-10	ASR5	Sunny	17:35	24-hour TSP	118	ug/m3
TMCLKL	HY/2012/08	2015-11-10	ASR1	Sunny	17:46	24-hour TSP	91	ug/m3
TMCLKL	HY/2012/08	2015-11-10	AQMS1	Sunny	17:57	24-hour TSP	81	ug/m3
TMCLKL	HY/2012/08	2015-11-13	ASR10	Sunny	16:13	24-hour TSP	55	ug/m3
TMCLKL	HY/2012/08	2015-11-13	ASR6	Sunny	16:23	24-hour TSP	74	ug/m3
TMCLKL	HY/2012/08	2015-11-13	ASR5	Sunny	16:34	24-hour TSP	83	ug/m3
TMCLKL	HY/2012/08	2015-11-13	ASR1	Sunny	16:46	24-hour TSP	71	ug/m3
TMCLKL	HY/2012/08	2015-11-13	AQMS1	Sunny	16:57	24-hour TSP	59	ug/m3
TMCLKL	HY/2012/08	2015-11-16	ASR1	Sunny	17:23	24-hour TSP	67	ug/m3
TMCLKL	HY/2012/08	2015-11-16	AQMS1	Sunny	17:34	24-hour TSP	85	ug/m3
TMCLKL	HY/2012/08	2015-11-16	ASR5	Sunny	17:12	24-hour TSP	90	ug/m3
TMCLKL	HY/2012/08	2015-11-16	ASR6	Sunny	17:01	24-hour TSP	79	ug/m3
TMCLKL	HY/2012/08	2015-11-16	ASR10	Sunny	16:49	24-hour TSP	57	ug/m3

Project	Works	Date	Station	Weather	Start time	Parameters	Results	units
TMCLKL	HY/2012/08	2015-11-19	ASR1	Sunny	17:51	24-hour TSP	86	ug/m3
TMCLKL	HY/2012/08	2015-11-19	AQMS1	Sunny	18:01	24-hour TSP	64	ug/m3
TMCLKL	HY/2012/08	2015-11-19	ASR5	Sunny	17:38	24-hour TSP	82	ug/m3
TMCLKL	HY/2012/08	2015-11-19	ASR6	Sunny	17:30	24-hour TSP	72	ug/m3
TMCLKL	HY/2012/08	2015-11-19	ASR10	Sunny	17:19	24-hour TSP	58	ug/m3
TMCLKL	HY/2012/08	2015-11-22	ASR10	Sunny	16:19	24-hour TSP	65	ug/m3
TMCLKL	HY/2012/08	2015-11-22	ASR1	Sunny	16:53	24-hour TSP	87	ug/m3
TMCLKL	HY/2012/08	2015-11-22	AQMS1	Sunny	17:04	24-hour TSP	61	ug/m3
TMCLKL	HY/2012/08	2015-11-22	ASR6	Sunny	16:31	24-hour TSP	72	ug/m3
TMCLKL	HY/2012/08	2015-11-22	ASR5	Sunny	16:41	24-hour TSP	71	ug/m3
TMCLKL	HY/2012/08	2015-11-25	ASR10	Sunny	16:34	24-hour TSP	64	ug/m3
TMCLKL	HY/2012/08	2015-11-25	ASR6	Sunny	16:45	24-hour TSP	76	ug/m3
TMCLKL	HY/2012/08	2015-11-25	ASR5	Sunny	16:56	24-hour TSP	102	ug/m3
TMCLKL	HY/2012/08	2015-11-25	ASR1	Sunny	17:08	24-hour TSP	96	ug/m3
TMCLKL	HY/2012/08	2015-11-25	AQMS1	Sunny	17:19	24-hour TSP	80	ug/m3
TMCLKL	HY/2012/08	2015-11-28	ASR10	Sunny	16:06	24-hour TSP	75	ug/m3
TMCLKL	HY/2012/08	2015-11-28	ASR6	Sunny	16:16	24-hour TSP	69	ug/m3
TMCLKL	HY/2012/08	2015-11-28	ASR5	Sunny	16:28	24-hour TSP	89	ug/m3
TMCLKL	HY/2012/08	2015-11-28	ASR1	Sunny	16:39	24-hour TSP	88	ug/m3
TMCLKL	HY/2012/08	2015-11-28	AQMS1	Sunny	16:51	24-hour TSP	81	ug/m3

Appendix H

Meteorological Data

	Meteorolo	gical Data for Impact Monitoring in the	e reporting period
Date (yy-mm-dd)	Time (24hrs)	Average of Wind Speed (m/s)	Average of Wind Direction
15/10/31	1:00	0.4	NE
15/10/31	2:00	0.4	ENE
15/10/31	3:00	0.9	Е
15/10/31	4:00	1.3	Е
15/10/31	5:00	1.3	Е
15/10/31	6:00	2.2	Е
15/10/31	7:00	1.8	E
15/10/31	8:00	1.8	E
15/10/31	9:00	2.7	ESE
15/10/31	10:00	3.1	ESE
15/10/31	11:00	3.6	SE
15/10/31	12:00	4	SE
15/10/31	13:00	4	SE
15/10/31	14:00	3.6	SE
15/10/31	15:00	3.6	SSE
15/10/31	16:00	4	SSE
15/10/31	17:00	3.1	SSE
15/10/31	18:00	4	SSE
15/10/31	19:00	3.1	ESE
15/10/31	20:00	2.2	ESE
15/10/31	21:00	2.2	Е
15/10/31	22:00	2.2	Е
15/10/31	23:00	1.8	Е
15/11/01	0:00	2.7	NE
15/11/01	1:00	3.1	NE
15/11/01	2:00	2.7	NE
15/11/01	3:00	2.7	NE
15/11/01	4:00	2.2	NE
15/11/01	5:00	2.7	NE
15/11/01	6:00	3.6	NE
15/11/01	7:00	3.6	NE
15/11/01	8:00	3.1	NE
15/11/01	9:00	4	NE
15/11/01	10:00	3.6	NE
15/11/01	11:00	3.6	NE NE
15/11/01	12:00	4	NE NE
15/11/01	13:00	2.7	NE N
15/11/01	14:00	3.1 2.2	N N
15/11/01	15:00	2.2	N N
15/11/01	16:00 17:00	0.4	NNE
15/11/01 15/11/01	18:00	0.4	N N
15/11/01	19:00	0.4	NNW
15/11/01	20:00	1.3	N N
15/11/01	21:00	0.4	N N
15/11/01	22:00	1.3	N N
15/11/01	23:00	1.3	N N
15/11/01	0:00	1.8	N
15/11/02	1:00	1.8	N
15/11/02	2:00	2.2	NE NE
15/11/02	3:00	2.7	NE NE
15/11/02	4:00	3.6	NE NE
15/11/02	5:00	1.3	NE NE

	Meteorolog	ical Data for Impact Monitoring in the repo	orting period
Date (yy-mm-dd)	Time (24hrs)	Average of Wind Speed (m/s)	Average of Wind Direction
15/11/02	6:00	0.4	Е
15/11/02	7:00	0.9	N
15/11/02	8:00	0.9	NNE
15/11/02	9:00	1.8	NE
15/11/02	10:00	2.2	NE
15/11/02	11:00	2.2	NE
15/11/02	12:00	2.2	NE
15/11/02	13:00	2.2	NE
15/11/02	14:00	1.8	NE
15/11/02	15:00	2.2	NE
15/11/02	16:00	1.3	NE
15/11/02	17:00	1.3	N
15/11/02	18:00	0.4	N
15/11/02	19:00	1.8	N
15/11/02	20:00	0.9	NNE
15/11/02	21:00	1.8	NE
15/11/02	22:00	1.3	NE
15/11/02	23:00	1.8	NE
15/11/03	0:00	2.2	NE
15/11/03	1:00	1.3	NE
15/11/03	2:00	0.9	NE
15/11/03	3:00	2.2	NE
15/11/03	4:00	2.7	NE
15/11/03	5:00	2.2	NE
15/11/03	6:00	2.2	NE
15/11/03	7:00	2.7	NE
15/11/03	8:00	1.8	NE
15/11/03	9:00	1.3	NE
15/11/03	10:00	1.3	NE
15/11/03	11:00	1.3	NE
15/11/03	12:00	1.3	Е
15/11/03	13:00	2.2	SSE
15/11/03	14:00	2.2	SSE
15/11/03	15:00	1.3	SSE
15/11/03	16:00	1.3	SSE
15/11/03	17:00	1.3	E
15/11/03	18:00	1.3	SE
15/11/03	19:00	1.3	SE
15/11/03	20:00	1.3	SSE
15/11/03	21:00	0	-
15/11/03	22:00	0	-
15/11/03	23:00	0.9	E
15/11/04	0:00	0.4	ENE
15/11/04	1:00	0.9	NE NE
15/11/04	2:00	0.9	NE
15/11/04	3:00	0.4	ENE
15/11/04	4:00	0.4	ENE
15/11/04	5:00	0.4	ENE
15/11/04	6:00	0.4	ENE
15/11/04	7:00	0.4	NE
15/11/04	8:00	1.3	NE NE
15/11/04	9:00	2.2	NE NE
15/11/04	10:00	1.8	NE
15/11/04	11:00	1.8	NE

		gical Data for Impact Monitoring in the	
Date (yy-mm-dd)	Time (24hrs)	Average of Wind Speed (m/s)	Average of Wind Direction
15/11/04	12:00	0.9	SSE
15/11/04	13:00	1.3	SSE
15/11/04	14:00	0.9	SSE
15/11/04	15:00	0.9	WSW
15/11/04	16:00	0.9	NW
15/11/04	17:00	0.9	N
15/11/04	18:00	0.4	NNW
15/11/04	19:00	0	-
15/11/04	20:00	0.9	SE
15/11/04	21:00	2.2	SSE
15/11/04	22:00	1.3	Е
15/11/04	23:00	1.3	E
15/11/05	0:00	0.4	ENE
15/11/05	1:00	0.4	ENE
15/11/05	2:00	0.4	NE
15/11/05	3:00	0	
15/11/05	4:00	0	
15/11/05	5:00	0.9	NE
	6:00	0.4	NE NE
15/11/05			
15/11/05	7:00	0.9	NE
15/11/05	8:00	0.4	NE
15/11/05	9:00	0.4	ENE
15/11/05	10:00	1.3	ESE
15/11/05	11:00	2.2	SE
15/11/05	12:00	2.2	SSE
15/11/05	13:00	2.2	SSE
15/11/05	14:00	2.7	SE
15/11/05	15:00	2.7	SSE
15/11/05	16:00	2.7	SSE
15/11/05	17:00	2.7	SSE
15/11/05	18:00	3.1	SSE
15/11/05	19:00	2.7	ESE
15/11/05	20:00	1.3	ESE
15/11/05	21:00	1.8	SE
15/11/05	22:00	1.8	Е
15/11/05	23:00	2.2	ESE
15/11/06	0:00	1.8	ESE
15/11/06	1:00	1.8	ESE
15/11/06	2:00	0.4	ENE
15/11/06	3:00	0.9	ENE
15/11/06	4:00	0.9	E
15/11/06	5:00	1.3	E
15/11/06	6:00	1.8	E
15/11/06	7:00	1.8	E
15/11/06	8:00	2.7	ESE
15/11/06	9:00	3.1	ESE
15/11/06	10:00	3.1	ESE
	11:00	3.6	ESE
15/11/06			
15/11/06	12:00	4.5	ESE
15/11/06	13:00	4	ESE
15/11/06	14:00	3.6	ESE
15/11/06	15:00	4	SE
15/11/06	16:00	4	SE
15/11/06	17:00	2.7	SE

	-	gical Data for Impact Monitoring in th	
Date (yy-mm-dd)	Time (24hrs)	Average of Wind Speed (m/s)	Average of Wind Direction
15/11/06	18:00	2.2	Е
15/11/06	19:00	1.8	E
15/11/06	20:00	1.8	E
15/11/06	21:00	0.4	E
15/11/06	22:00	0.4	ENE
15/11/06	23:00	1.3	E
15/11/07	0:00	1.3	Е
15/11/07	1:00	1.3	E
15/11/07	2:00	1.8	E
15/11/07	3:00	1.3	E
15/11/07	4:00	0.9	E
15/11/07	5:00	0.4	NE
15/11/07	6:00	0.9	ESE
15/11/07	7:00	1.3	E
15/11/07	8:00	2.2	E
15/11/07	9:00	1.8	ESE
15/11/07	10:00	2.7	ESE
15/11/07	11:00	3.1	SE
15/11/07	12:00	2.2	ESE
15/11/07	13:00	2.7	SE
15/11/07	14:00	2.7	SE
15/11/07	15:00	3.1	SSE
15/11/07	16:00	2.7	SE
15/11/07	17:00	2.7	SSE
15/11/07	18:00	2.7	ESE
15/11/07	19:00	2.2	ESE
15/11/07	20:00	2.2	ESE
15/11/07	21:00	1.8	Е
15/11/07	22:00	2.2	Е
15/11/07	23:00	2.2	Е
15/11/08	0:00	2.2	Е
15/11/08	1:00	2.2	ESE
15/11/08	2:00	1.3	ESE
15/11/08	3:00	1.3	ESE
15/11/08	4:00	1.3	ESE
15/11/08	5:00	2.2	ESE
15/11/08	6:00	1.8	Е
15/11/08	7:00	0.9	Е
15/11/08	8:00	0.4	ESE
15/11/08	9:00	0.9	E
15/11/08	10:00	0.9	ESE
15/11/08	11:00	0.9	SSE
15/11/08	12:00	0.4	SSE
15/11/08	13:00	1.3	SSE
15/11/08	14:00	1.3	SSE
15/11/08	15:00	1.8	S
15/11/08	16:00	2.2	SSE
15/11/08	17:00	1.8	SSE
15/11/08	18:00	1.3	SSE
15/11/08	19:00	0.9	E
15/11/08	20:00	1.3	E
15/11/08	21:00	1.8	E
15/11/08	22:00	1.3	E
12/11/00	22.00	1.8	ESE

	_	gical Data for Impact Monitoring in the	
Date (yy-mm-dd)	Time (24hrs)	Average of Wind Speed (m/s)	Average of Wind Direction
15/11/09	0:00	1.3	ESE
15/11/09	1:00	0.9	ESE
15/11/09	2:00	0	-
15/11/09	3:00	0	-
15/11/09	4:00	0	-
15/11/09	5:00	0	-
15/11/09	6:00	0	-
15/11/09	7:00	0	-
15/11/09	8:00	0	-
15/11/09	9:00	0.4	Е
15/11/09	10:00	0.9	S
15/11/09	11:00	0.4	S
15/11/09	12:00	1.8	WSW
15/11/09	13:00	0.4	NNW
15/11/09	14:00	0.4	NW
15/11/09	15:00	0.4	
	15:00	0.9	- WSW
15/11/09			WSW
15/11/09	17:00	0	- FGF
15/11/09	18:00	0.9	ESE
15/11/09	19:00	0.4	ESE
15/11/09	20:00	1.8	Е
15/11/09	21:00	1.3	ESE
15/11/09	22:00	1.3	NE
15/11/09	23:00	2.2	NE
15/11/10	0:00	1.8	NE
15/11/10	1:00	0.9	NE
15/11/10	2:00	1.8	NE
15/11/10	3:00	1.8	NE
15/11/10	4:00	2.7	NE
15/11/10	5:00	2.7	NE
15/11/10	6:00	2.7	NE
15/11/10	7:00	2.7	NE
15/11/10	8:00	3.1	NE
15/11/10	9:00	2.2	NE
15/11/10	10:00	1.8	ESE
15/11/10	11:00	4	ESE
15/11/10	12:00	4	ESE
15/11/10	13:00	3.6	ESE
15/11/10	14:00	3.1	ESE
15/11/10	15:00	3.1	ESE
15/11/10	16:00	3.1	E
15/11/10	17:00	2.2	E
15/11/10	18:00	2.2	E E
	1	2.2	E E
15/11/10	19:00		E
15/11/10	20:00	2.7	
15/11/10	21:00	2.7	E
15/11/10	22:00	2.2	E
15/11/10	23:00	2.2	E
15/11/11	0:00	2.2	Е
15/11/11	1:00	3.1	ESE
15/11/11	2:00	3.6	ESE
15/11/11	3:00	2.2	ESE
15/11/11	4:00	2.7	E
15/11/11	5:00	3.1	ESE

	Meteorolog	ical Data for Impact Monitoring in the repo	orting period
Date (yy-mm-dd)	Time (24hrs)	Average of Wind Speed (m/s)	Average of Wind Direction
15/11/11	6:00	4	ESE
15/11/11	7:00	4	ESE
15/11/11	8:00	3.6	Е
15/11/11	9:00	3.1	Е
15/11/11	10:00	3.1	E
15/11/11	11:00	2.7	Е
15/11/11	12:00	3.6	ESE
15/11/11	13:00	3.6	SE
15/11/11	14:00	4.9	SE
15/11/11	15:00	4.5	SSE
15/11/11	16:00	4	SE
15/11/11	17:00	4.5	SE
15/11/11	18:00	3.6	SE
15/11/11	19:00	2.7	Е
15/11/11	20:00	2.7	Е
15/11/11	21:00	3.1	Е
15/11/11	22:00	3.1	Е
15/11/11	23:00	2.7	Е
15/11/12	0:00	2.7	Е
15/11/12	1:00	3.1	ESE
15/11/12	2:00	2.7	Е
15/11/12	3:00	2.7	Е
15/11/12	4:00	2.7	Е
15/11/12	5:00	3.1	Е
15/11/12	6:00	2.7	Е
15/11/12	7:00	2.7	Е
15/11/12	8:00	2.7	Е
15/11/12	9:00	3.1	Е
15/11/12	10:00	3.1	Е
15/11/12	11:00	2.7	Е
15/11/12	12:00	3.1	E
15/11/12	13:00	2.7	E
15/11/12	14:00	2.7	E
15/11/12	15:00	2.7	ESE
15/11/12	16:00	3.1	ESE
15/11/12	17:00	3.6	ESE
15/11/12	18:00	3.1	ESE
15/11/12	19:00	3.1	ESE
15/11/12	20:00	2.2	E
15/11/12	21:00	2.2	ESE
15/11/12	22:00	2.7	E
15/11/12	23:00	3.1	ESE
15/11/13	0:00	3.6	ESE
15/11/13	1:00	3.1	ESE
15/11/13	2:00	2.7	ESE
15/11/13	3:00	3.6	ESE
15/11/13	4:00	3.1	ESE
15/11/13	5:00 6:00	3.6	ESE ESE
15/11/13	1	3.1	
15/11/13	7:00 8:00	3.1	ESE
15/11/13		3.1	ESE
15/11/13	9:00		ESE
15/11/13	10:00	1.8	ESE
15/11/13	11:00	2.2	N

		gical Data for Impact Monitoring in th	
Date (yy-mm-dd)	Time (24hrs)	Average of Wind Speed (m/s)	Average of Wind Direction
15/11/13	12:00	0.4	N
15/11/13	13:00	0.4	N
15/11/13	14:00	2.2	NNW
15/11/13	15:00	2.2	N
15/11/13	16:00	2.7	N
15/11/13	17:00	2.2	N
15/11/13	18:00	0.9	NE
15/11/13	19:00	0.9	N
15/11/13	20:00	4	NE
15/11/13	21:00	4	NE
15/11/13	22:00	2.7	NE
15/11/13	23:00	0.9	NE
15/11/14	0:00	0.4	NE
15/11/14	1:00	0	-
15/11/14	2:00	0.4	N
15/11/14	3:00	0	-
15/11/14	4:00	0	-
15/11/14	5:00	0.9	N
15/11/14	6:00	0.4	NE
15/11/14	7:00	0	-
15/11/14	8:00	0	-
15/11/14	9:00	0	-
15/11/14	10:00	0.9	N
15/11/14	11:00	0.4	ESE
15/11/14	12:00	0.9	WSW
15/11/14	13:00	1.3	WSW
15/11/14	14:00	0.9	wsw
15/11/14	15:00	0.4	W
15/11/14	16:00	0.4	SSE
15/11/14	17:00	0	-
15/11/14	18:00	0	-
15/11/14	19:00	0	-
15/11/14	20:00	0.4	ENE
15/11/14	21:00	0.9	NNE
15/11/14	22:00	0.4	NNE
15/11/14	23:00	0	-
15/11/15	0:00	0	-
15/11/15	1:00	0.4	ENE
15/11/15	2:00	1.3	Е
15/11/15	3:00	0.9	ENE
15/11/15	4:00	0.9	Е
15/11/15	5:00	2.2	ESE
15/11/15	6:00	1.8	ENE
15/11/15	7:00	1.8	ESE
15/11/15	8:00	4	ESE
15/11/15	9:00	3.6	ESE
15/11/15	10:00	2.7	ESE
15/11/15	11:00	3.1	ESE
15/11/15	12:00	4.5	ESE
15/11/15	13:00	4	ESE
15/11/15	14:00	4	ESE
15/11/15	15:00	4.5	ESE
15/11/15	16:00	4	ESE
15/11/15	17:00	4	ESE

	Meteorolog	ical Data for Impact Monitoring in the rep	orting period
Date (yy-mm-dd)	Time (24hrs)	Average of Wind Speed (m/s)	Average of Wind Direction
15/11/15	18:00	3.6	ESE
15/11/15	19:00	4.5	ESE
15/11/15	20:00	4.9	ESE
15/11/15	21:00	4.5	ESE
15/11/15	22:00	4	ESE
15/11/15	23:00	4	ESE
15/11/16	0:00	4	ESE
15/11/16	1:00	4.5	ESE
15/11/16	2:00	3.6	ESE
15/11/16	3:00	2.2	ESE
15/11/16	4:00	2.7	ESE
15/11/16	5:00	3.6	ESE
15/11/16	6:00	4	ESE
15/11/16	7:00	3.6	ESE
15/11/16	8:00	3.1	ESE
15/11/16	9:00	3.6	ESE
15/11/16	10:00	3.6	ESE
15/11/16	11:00	4	ESE
15/11/16	12:00	3.6	ESE
15/11/16	13:00	3.6	ESE
15/11/16	14:00	3.1	SE
15/11/16	15:00	4.5	SSE
15/11/16	16:00	4	SSE
15/11/16	17:00	4	SSE
15/11/16	18:00	2.7	ESE
15/11/16	19:00	2.7	ESE
15/11/16	20:00	2.7	ESE
15/11/16	21:00	2.2	ESE
15/11/16	22:00	2.2	ESE
15/11/16	23:00	2.2	ESE
15/11/17	0:00	1.8	ESE
15/11/17	1:00	1.8	ESE
15/11/17	2:00	1.8	ESE
15/11/17	3:00	1.8	ESE
15/11/17	4:00	1.8	ESE
15/11/17	5:00	1.8	ESE
15/11/17	6:00	1.8	ESE
15/11/17	7:00	2.2	ESE
15/11/17	8:00	2.2	ESE
15/11/17	9:00	2.2	ESE
15/11/17	10:00	2.2	ESE
15/11/17	11:00	2.7	SE
15/11/17	12:00	2.2	ESE
15/11/17	13:00	2.2	ESE
15/11/17	14:00	2.2	ESE
15/11/17	15:00	2.2	ESE
15/11/17	16:00	1.8	SE SSE
15/11/17	17:00	0.9	SSE
15/11/17	18:00	1.3	ESE
15/11/17	19:00	1.8	SE
15/11/17	20:00	1.8	ESE
15/11/17	21:00	1.3	ESE
15/11/17	22:00	1.3	ESE
15/11/17	23:00	0.9	ESE

	Meteorolo	gical Data for Impact Monitoring in th	e reporting period
Date (yy-mm-dd)	Time (24hrs)	Average of Wind Speed (m/s)	Average of Wind Direction
15/11/18	0:00	0.9	ESE
15/11/18	1:00	0.4	ESE
15/11/18	2:00	0.4	ESE
15/11/18	3:00	0	-
15/11/18	4:00	0	-
15/11/18	5:00	0	-
15/11/18	6:00	0	-
15/11/18	7:00	0	-
15/11/18	8:00	0	-
15/11/18	9:00	0.9	E
15/11/18	10:00	1.3	SSE
15/11/18	11:00	1.3	S
15/11/18	12:00	1.3	WSW
15/11/18	13:00	1.3	WSW
15/11/18	14:00	0.9	W
15/11/18	15:00	0.4	W
15/11/18	16:00	0.4	W
15/11/18	17:00	0.9	W
15/11/18	18:00	0	-
15/11/18	19:00	1.3	Е
15/11/18	20:00	0.4	E
15/11/18	21:00	0	-
15/11/18	22:00	0	-
15/11/18	23:00	0	-
15/11/19	0:00	0	-
15/11/19	1:00	0	-
15/11/19	2:00	0	-
15/11/19	3:00	0	-
15/11/19	4:00	0	-
15/11/19	5:00	0	-
15/11/19	6:00	0	-
15/11/19	7:00	0.4	E
15/11/19	8:00	0.4	Е
15/11/19	9:00	0.9	NE
15/11/19	10:00	1.8	SE
15/11/19	11:00	1.3	SE
15/11/19	12:00	2.7	SE
15/11/19	13:00	3.1	SSE
15/11/19	14:00	2.2	SSE
15/11/19	15:00	2.2	SE
15/11/19	16:00	2.7	SE
15/11/19	17:00	2.7	SE
15/11/19	18:00	3.1	SSE
15/11/19	19:00	2.7	SE
15/11/19	20:00	2.2	ESE
15/11/19	21:00	2.2	ESE
15/11/19	22:00	2.2	E
15/11/19	23:00	1.8	E
15/11/20	0:00	1.8	ESE
15/11/20	1:00	1.3	ESE
15/11/20	2:00	0.9	ENE
15/11/20	3:00	0.9	ESE
15/11/20	4:00	1.8	ESE
15/11/20	5:00	1.3	ESE

	Meteorolog	ical Data for Impact Monitoring in the repo	orting period
Date (yy-mm-dd)	Time (24hrs)	Average of Wind Speed (m/s)	Average of Wind Direction
15/11/20	6:00	1.3	ESE
15/11/20	7:00	0.9	E
15/11/20	8:00	1.3	E
15/11/20	9:00	1.8	ESE
15/11/20	10:00	1.8	ESE
15/11/20	11:00	1.8	SE
15/11/20	12:00	3.1	SSE
15/11/20	13:00	2.7	SE
15/11/20	14:00	3.1	SE
15/11/20	15:00	2.7	ESE
15/11/20	16:00	2.7	SE
15/11/20	17:00	3.1	SE
15/11/20	18:00	2.7	SE
15/11/20	19:00	2.7	ESE
15/11/20	20:00	2.7	ESE
15/11/20	21:00	2.2	E
15/11/20	22:00	1.8	ESE
15/11/20	23:00	1.8	E
15/11/21	0:00	3.1	ESE
15/11/21	1:00	1.3	NE
15/11/21	2:00	0.9	ENE
15/11/21	3:00	0.4	ENE
15/11/21	4:00	1.3	E
15/11/21	5:00	0.9	NE
15/11/21	6:00	0.9	ENE
15/11/21	7:00	0.9	ENE
15/11/21	8:00	0.9	NE
15/11/21	9:00	0.9	Е
15/11/21	10:00	2.7	ESE
15/11/21	11:00	2.2	ESE
15/11/21	12:00	2.7	ESE
15/11/21	13:00	2.7	SSE
15/11/21	14:00	1.3	SSE
15/11/21	15:00	1.3	NE
15/11/21	16:00	0.9	NNE
15/11/21	17:00	1.3	SE
15/11/21	18:00	1.8	SE
15/11/21	19:00	1.3	ESE
15/11/21	20:00	0.9	Е
15/11/21	21:00	1.3	E
15/11/21	22:00	1.8	Е
15/11/21	23:00	2.2	Е
15/11/22	0:00	1.3	E
15/11/22	1:00	0.4	ENE
15/11/22	2:00	0.4	NE
15/11/22	3:00	0.4	NE
15/11/22	4:00	0.9	NE
15/11/22	5:00	0.4	NNE
15/11/22	6:00	1.3	NE
15/11/22	7:00	1.3	NE
15/11/22	8:00	1.3	ENE
15/11/22	9:00	1.8	NE
15/11/22	10:00	2.2	NE
15/11/22	11:00	1.3	NE

	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					
15/11/22	12:00	1.8	S					
15/11/22	13:00	1.3	S					
15/11/22	14:00	0.9	SSE					
15/11/22	15:00	0.4	S					
15/11/22	16:00	0.9	WSW					
15/11/22	17:00	0.4	WSW					
15/11/22	18:00	0	-					
15/11/22	19:00	0.9	SSE					
15/11/22	20:00	2.2	SE					
15/11/22	21:00	1.3	ESE					
15/11/22	22:00	1.8	ESE					
15/11/22	23:00	1.3	E					
15/11/23	0:00	0.9	E					
15/11/23	1:00	0.4	ESE					
15/11/23	2:00	0	-					
15/11/23	3:00	0.4	E					
15/11/23	4:00	0	-					
15/11/23	5:00	0.9	NE					
15/11/23	6:00	0.4	NE					
15/11/23	7:00	1.8	NE					
15/11/23	8:00	2.7	NE					
15/11/23	9:00	3.6	NE					
15/11/23	10:00	3.1	NE					
15/11/23	11:00	1.8	NE					
15/11/23	12:00	1.3	NE					
15/11/23	13:00	1.8	WSW					
15/11/23	14:00	0.9	WNW					
15/11/23	15:00	1.8	WSW					
15/11/23	16:00	1.3	WSW					
15/11/23	17:00	1.8	WSW					
15/11/23	18:00	0.9	W					
15/11/23	19:00	1.3	ESE					
15/11/23	20:00	1.8	ESE					
15/11/23	21:00	1.3	ESE					
15/11/23	22:00	0.9	Е					
15/11/23	23:00	0.9	Е					
15/11/24	0:00	0.9	NE					
15/11/24	1:00	0.9	NNE					
15/11/24	2:00	1.3	NE					
15/11/24	3:00	1.3	NE					
15/11/24	4:00	2.2	NE					
15/11/24	5:00	3.1	NE					
15/11/24	6:00	2.2	NE					
15/11/24	7:00	1.3	NE					
15/11/24	8:00	1.3	NE					
15/11/24	9:00	2.2	NE					
15/11/24	10:00	1.8	NE					
15/11/24	11:00	1.8	ESE					
15/11/24	12:00	2.2	SE					
15/11/24	13:00	2.2	SE					
15/11/24	14:00	2.2	SSE					
15/11/24	15:00	3.1	SSE					
15/11/24	16:00	2.2	SSE					
15/11/24	17:00	1.3	SSE					

	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				
15/11/24	18:00	2.7	SSE				
15/11/24	19:00	2.2	Е				
15/11/24	20:00	0.9	Е				
15/11/24	21:00	1.8	Е				
15/11/24	22:00	0.9	ENE				
15/11/24	23:00	1.3	NE				
15/11/25	0:00	0	-				
15/11/25	1:00	0	-				
15/11/25	2:00	0.4	Е				
15/11/25	3:00	0	-				
15/11/25	4:00	0	-				
15/11/25	5:00	0	-				
15/11/25	6:00	0	-				
15/11/25	7:00	0.9	NE				
15/11/25	8:00	0.9	NE				
15/11/25	9:00	2.7	NE				
15/11/25	10:00	3.6	NE				
15/11/25	11:00	2.2	NE				
15/11/25	12:00	1.8	E				
15/11/25	13:00	2.2	NE				
15/11/25	14:00	2.2	NE				
15/11/25	15:00	2.7	N				
15/11/25	16:00	3.1	N				
15/11/25	17:00	2.2	N				
15/11/25	18:00	2.2	N				
15/11/25	19:00	2.7	N				
15/11/25	20:00	1.8	N				
15/11/25	21:00	1.3	N				
15/11/25	22:00	1.8	NE				
15/11/25	23:00	1.8	NE				
15/11/26	0:00	0.4	NNW				
15/11/26	1:00	0.4	NNW				
15/11/26	2:00	0.4	NNW				
15/11/26	3:00	0.9	N				
15/11/26	4:00	1.8	NE				
15/11/26	5:00	2.7	NNE				
15/11/26	6:00	4.5	NE				
15/11/26	7:00	5.4	NE				
15/11/26	8:00	4	NE				
15/11/26	9:00	2.7	NE				
15/11/26	10:00	1.3	NE				
15/11/26	11:00	1.3	NE				
15/11/26	12:00	2.2	NE				
15/11/26	13:00	2.7	NE NE				
15/11/26	14:00	2.7	NE				
15/11/26	15:00	2.2	NE NE				
15/11/26	16:00	2.2	NE NE				
15/11/26	17:00	1.8	NE NNE				
15/11/26	18:00	1.3	NNE				
15/11/26	19:00	2.7	NNE				
15/11/26	20:00	4	NE NE				
15/11/26	21:00	4	NE NE				
15/11/26	22:00	4.5	NE NE				
15/11/26	23:00	4.5	NE				

	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					
15/11/27	0:00	4.5	NE					
15/11/27	1:00	3.6	NE					
15/11/27	2:00	4.5	NE					
15/11/27	3:00	3.6	NE					
15/11/27	4:00	3.1	NE					
15/11/27	5:00	3.6	NE					
15/11/27	6:00	3.6	NE					
15/11/27	7:00	4	NE					
15/11/27	8:00	4.5	NE					
15/11/27	9:00	3.1	NE					
15/11/27	10:00	1.8	NE					
15/11/27	11:00	1.8	NE					
15/11/27	12:00	1.8	ESE					
15/11/27	13:00	1.8	SE					
15/11/27	14:00	1.8	NE					
15/11/27	15:00	1.3	NE					
15/11/27	16:00	1.8	ESE					
15/11/27	17:00	2.2	ESE					
15/11/27	18:00	1.3	NE					
15/11/27	19:00	0.9	NE					
15/11/27	20:00	1.3	NE					
15/11/27	21:00	1.8	NE					
15/11/27	22:00	1.3	NE					
15/11/27	23:00	1.8	Е					
15/11/28	0:00	2.2	NE					
15/11/28	1:00	1.8	NE					
15/11/28	2:00	2.2	Е					
15/11/28	3:00	1.8	Е					
15/11/28	4:00	0.4	ENE					
15/11/28	5:00	0.4	N					
15/11/28	6:00	1.3	NE					
15/11/28	7:00	0.9	NE					
15/11/28	8:00	1.8	NE					
15/11/28	9:00	1.8	NE					
15/11/28	10:00	1.8	E					
15/11/28	11:00	1.3	E					
15/11/28	12:00	1.3	ESE					
15/11/28	13:00	0.9	S					
15/11/28	14:00	1.3	SSE					
15/11/28	15:00	3.1	SSE					
15/11/28	16:00	2.2	SE					
15/11/28	17:00	2.2	S					
15/11/28	18:00	0	-					
15/11/28	19:00	0	- CCE					
15/11/28	20:00	0.9	SSE					
15/11/28	21:00	0.9	E					
15/11/28	22:00	1.3	E NE					
15/11/28	23:00 0:00	1.3 0.9	NE NE					
15/11/29		0.9	NE					
15/11/29	1:00 2:00	0.4	NE					
15/11/29	3:00	0.4	NE NE					
15/11/29	4:00	0.9	NE NE					
15/11/29		i						
15/11/29	5:00	1.3	NE					

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			
15/11/29	6:00	0.9	NE			
15/11/29	7:00	1.3	NE			
15/11/29	8:00	0.9	NE			
15/11/29	9:00	0.4	NE			
15/11/29	10:00	0.9	ENE			
15/11/29	11:00	1.3	N			
15/11/29	12:00	2.2	N			
15/11/29	13:00	1.3	N			
15/11/29	14:00	2.2	NNW			
15/11/29	15:00	2.2	NW			
15/11/29	16:00	1.3	NW			
15/11/29	17:00	1.8	N			
15/11/29	18:00	1.8	N			
15/11/29	19:00	1.8	N			
15/11/29	20:00	1.3	N			
15/11/29	21:00	0.9	N			
15/11/29	22:00	1.3	N			
15/11/29	23:00	1.8	N			

Appendix I

Impact Dolphin Monitoring Survey

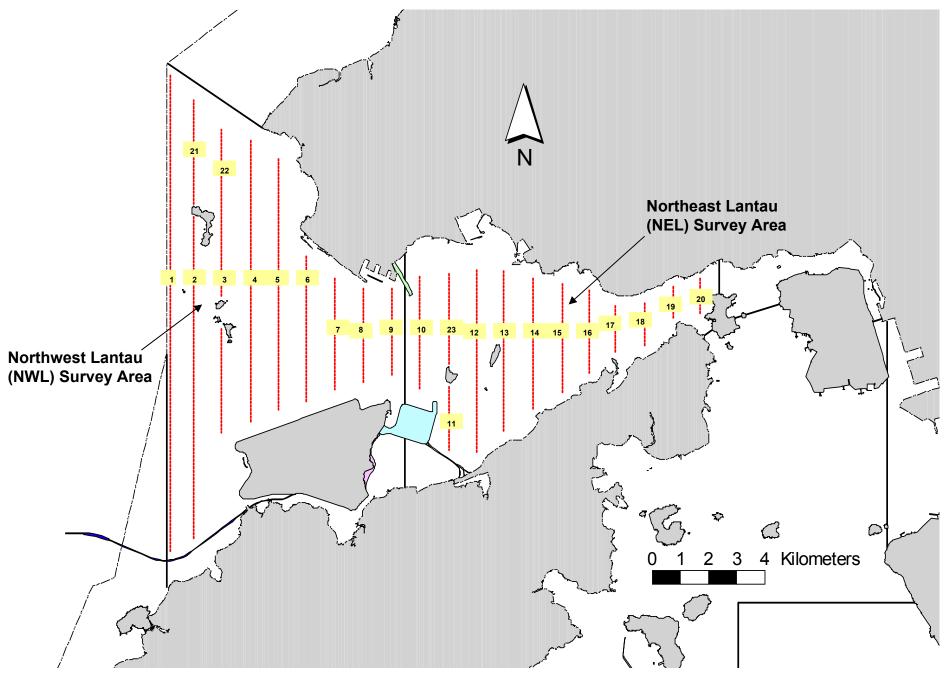


Figure 1. Transect Line Layout in Northwest and Northeast Lantau Survey Areas

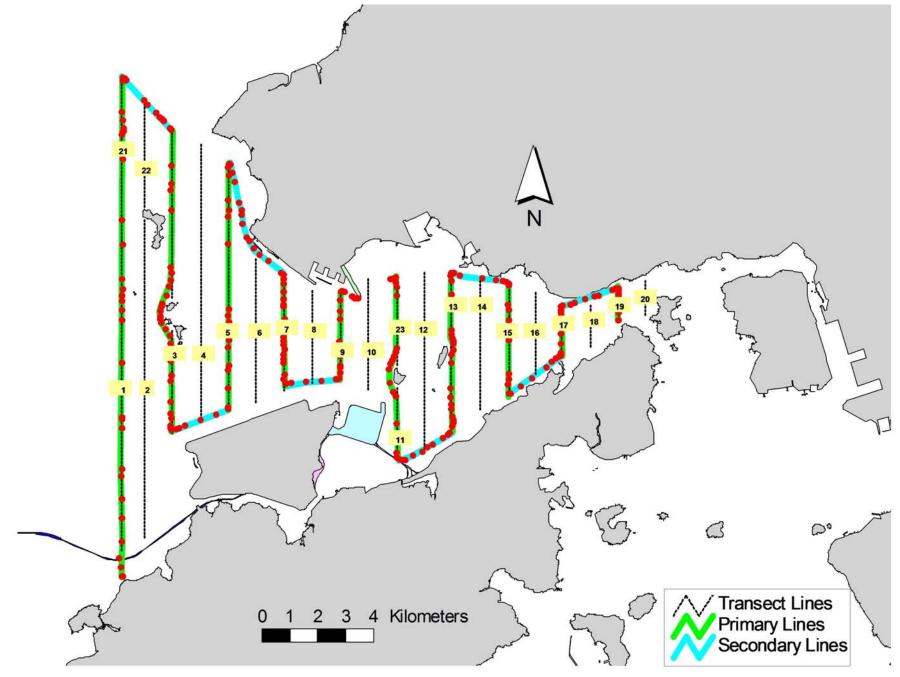


Figure 2. Survey Route on November 2nd, 2015 (from HKLR03 project)

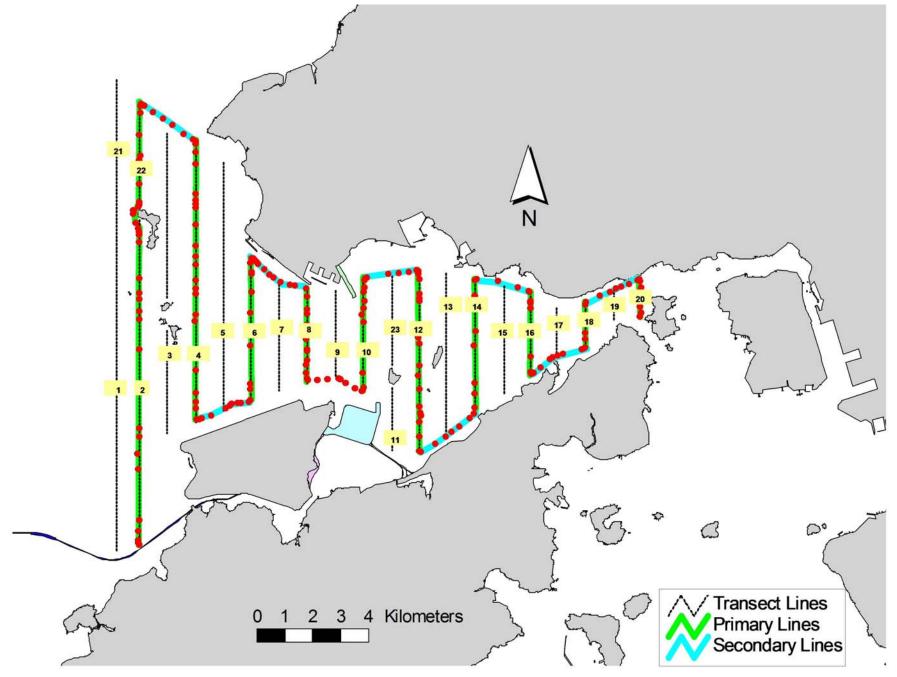


Figure 3. Survey Route on November 6th, 2015 (from HKLR03 project)

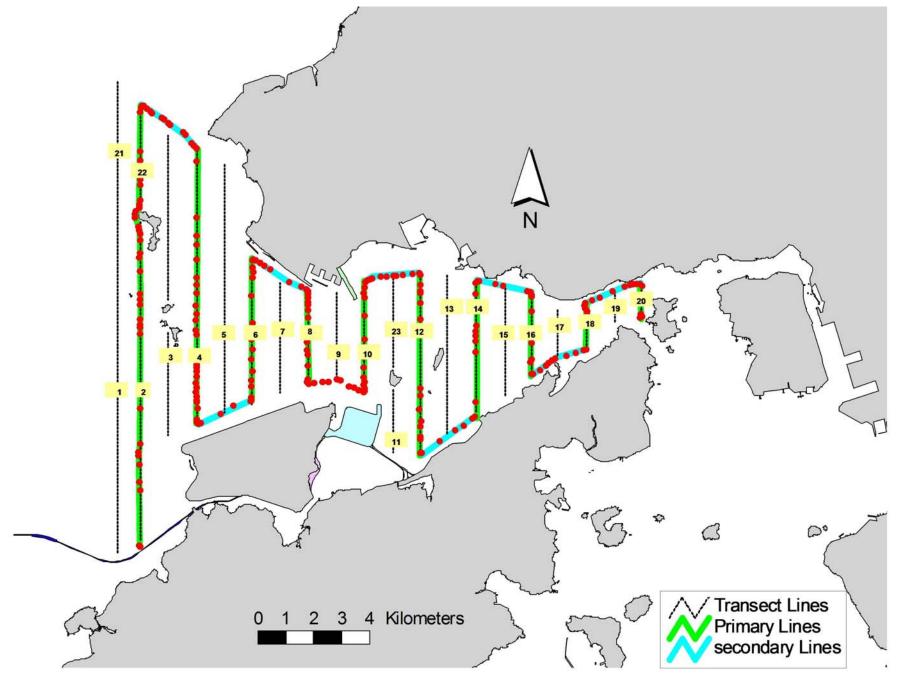


Figure 4. Survey Route on November 10th, 2015 (from HKLR03 project)

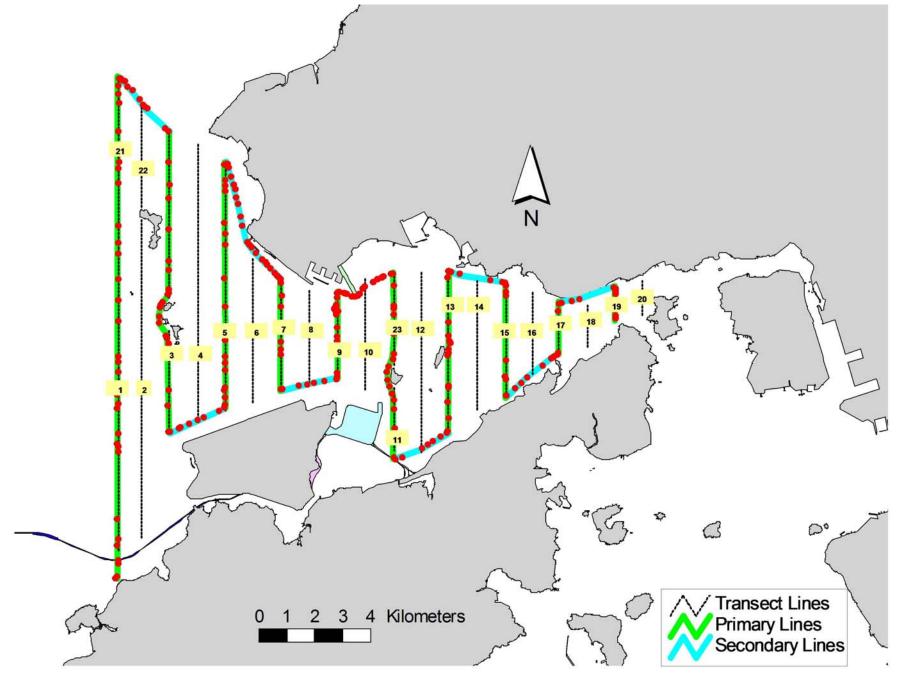


Figure 5. Survey Route on November 16th, 2015 (from HKLR03 project)

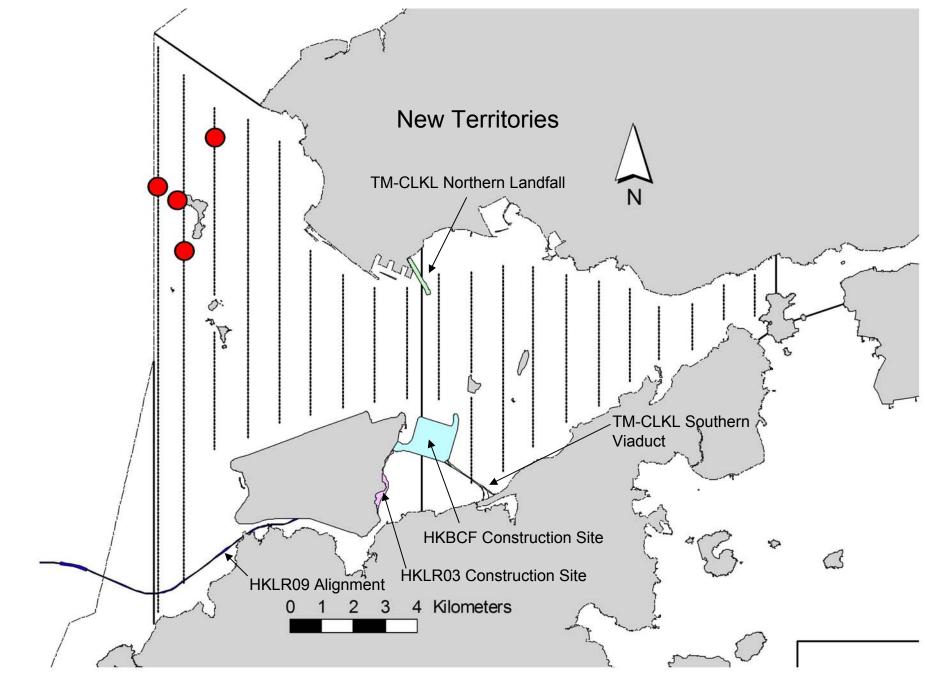


Figure 6. Distribution of Chinese White Dolphin Sightings During November 2015 HKLR03 Monitoring Surveys

Appendix I. HKLR03 Survey Effort Database (November 2015)

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

DATE	AREA	BEAU	EFFORT	SEASON	VESSEL	TYPE	P/S
2-Nov-15	NW LANTAU	2	6.50	AUTUMN	STANDARD31516	HKLR	Р
2-Nov-15	NW LANTAU	3	27.18	AUTUMN	STANDARD31516	HKLR	Р
2-Nov-15	NW LANTAU	4	7.13	AUTUMN	STANDARD31516	HKLR	Р
2-Nov-15	NW LANTAU	2	2.30	AUTUMN	STANDARD31516	HKLR	S
2-Nov-15	NW LANTAU	3	7.55	AUTUMN	STANDARD31516	HKLR	S
2-Nov-15	NW LANTAU	4	2.74	AUTUMN	STANDARD31516	HKLR	S
2-Nov-15	NE LANTAU	2	14.92	AUTUMN	STANDARD31516	HKLR	Р
2-Nov-15	NE LANTAU	3	1.70	AUTUMN	STANDARD31516	HKLR	Р
2-Nov-15	NE LANTAU	2	7.98	AUTUMN	STANDARD31516	HKLR	S
2-Nov-15	NE LANTAU	3	2.40	AUTUMN	STANDARD31516	HKLR	S
6-Nov-15	NW LANTAU	3	18.35	AUTUMN	STANDARD31516	HKLR	Р
6-Nov-15	NW LANTAU	4	13.86	AUTUMN	STANDARD31516	HKLR	Р
6-Nov-15	NW LANTAU	3	6.79	AUTUMN	STANDARD31516	HKLR	S
6-Nov-15	NE LANTAU	2	5.90	AUTUMN	STANDARD31516	HKLR	Р
6-Nov-15	NE LANTAU	3	14.15	AUTUMN	STANDARD31516	HKLR	Р
6-Nov-15	NE LANTAU	2	6.70	AUTUMN	STANDARD31516	HKLR	S
6-Nov-15	NE LANTAU	3	3.95	AUTUMN	STANDARD31516	HKLR	S
10-Nov-15	NW LANTAU	2	2.44	AUTUMN	STANDARD31516	HKLR	Р
10-Nov-15	NW LANTAU	3	27.80	AUTUMN	STANDARD31516	HKLR	Р
10-Nov-15	NW LANTAU	4	0.98	AUTUMN	STANDARD31516	HKLR	Р
10-Nov-15	NW LANTAU	2	0.28	AUTUMN	STANDARD31516	HKLR	S
10-Nov-15	NW LANTAU	3	6.23	AUTUMN	STANDARD31516	HKLR	S
10-Nov-15	NW LANTAU	4	1.30	AUTUMN	STANDARD31516	HKLR	S
10-Nov-15	NE LANTAU	2	9.09	AUTUMN	STANDARD31516	HKLR	Р
10-Nov-15	NE LANTAU	3	10.38	AUTUMN	STANDARD31516	HKLR	Р
10-Nov-15	NE LANTAU	2	8.03	AUTUMN	STANDARD31516	HKLR	S
10-Nov-15	NE LANTAU	3	2.70	AUTUMN	STANDARD31516	HKLR	S
16-Nov-15	NE LANTAU	2	5.26	AUTUMN	STANDARD31516	HKLR	Р
16-Nov-15	NE LANTAU	3	12.22	AUTUMN	STANDARD31516	HKLR	Р
16-Nov-15	NE LANTAU	2	7.72	AUTUMN	STANDARD31516	HKLR	S
16-Nov-15	NE LANTAU	3	2.10	AUTUMN	STANDARD31516	HKLR	S
16-Nov-15	NW LANTAU	2	6.48	AUTUMN	STANDARD31516	HKLR	Р
16-Nov-15	NW LANTAU	3	21.03	AUTUMN	STANDARD31516	HKLR	Р
16-Nov-15		4	9.27	AUTUMN	STANDARD31516	HKLR	Р
16-Nov-15 16-Nov-15	NW LANTAU NW LANTAU	5 2	4.10 2.53	AUTUMN AUTUMN	STANDARD31516 STANDARD31516	HKLR HKLR	P S
16-Nov-15	NW LANTAU	3	2.53 7.79	AUTUMN	STANDARD31516 STANDARD31516	HKLR	S
16-Nov-15	NW LANTAU	4	2.60	AUTUMN	STANDARD31516 STANDARD31516	HKLR	S
10-1404-15	INV LANIAU		2.00	AU I UIVIIN		THALIA	3

Appendix II. HKLR03 Chinese White Dolphin Sighting Database (November 2015) (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
02-Nov-15	1	1143	7	NW LANTAU	2	181	ON	HKLR	828699	806450	AUTUMN	NONE	Р
06-Nov-15	1	1106	1	NW LANTAU	3	77	ON	HKLR	826830	805262	AUTUMN	NONE	Р
10-Nov-15	1	1042	1	NW LANTAU	3	465	ON	HKLR	825312	805475	AUTUMN	NONE	Р
16-Nov-15	1	1455	5	NW LANTAU	5	662	ON	HKLR	827241	804645	AUTUMN	NONE	Р

Appendix III. Individual dolphins identified during HKLR03 monitoring surveys in November 2015

ID#	DATE	STG#	AREA
NL46	10/11/15	1	NW LANTAU
NL48	02/11/15	1	NW LANTAU
	16/11/15	1	NW LANTAU
NL98	02/11/15	1	NW LANTAU
NL123	02/11/15	1	NW LANTAU
NL136	02/11/15	1	NW LANTAU
NL182	02/11/15	1	NW LANTAU
NL202	16/11/15	1	NW LANTAU
NL210	02/11/15	1	NW LANTAU
	16/11/15	1	NW LANTAU
NL286	16/11/15	1	NW LANTAU



NL98_20151102_1

NL48_20151102_1

NL123_20151102_1

Appendix IV. Photographs of Identified Individual Dolphins in November 2015 (HKLR03)



Appendix IV. (cont'd)

Appendix J

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. 6.	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.	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	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
7. 8.	If exceedance continues, arrange meeting with the IEC and the SOR. If exceedance stops, cease additional monitoring.	5.	remedial measures. Supervise implementation of remedial measures.			5.	proposals Amend proposal if appropriate

Note: (a) 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.		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 K

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

Table K1 Cumulative Statistics on Exceedances

Parameters	Level of Exceedance	Total No. recorded in this reporting month	Total No. recorded since project commencement
1-hr TSP	Action	0	30
	Limit	0	2
24-hr TSP	Action	0	5
	Limit	0	1
Water Quality	Action	0	6
	Limit	0	1
Impact Dolphin	Action	2	9
Monitoring	Limit	0	3

Table K2 Cumulative Statistics on Complaints, Notifications of Summons and Successful Prosecutions

Reporting Period	Cumulative Statistics				
_	Complaints	Notifications of	Successful		
		Summons	Prosecutions		
This Reporting Month (November 2015)	0	0	0		
Total No. received since project commencement	4	0	0		

Appendix L

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 2015 [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	64.216	0.000	0.000	0.000	64.216			
Jan-2015	30.877	0.000	0.000	0.000	30.877			
Feb-2015	4.152	0.000	0.000	0.000	4.152			
Mar-2015	36.718	0.000	0.000	0.000	36.718			
Apr-2015	62.847	0.000	0.000	0.000	62.847			
May-2015	121.436	0.000	0.000	0.000	121.436			
Jun-2015	247.282	0.000	0.000	0.000	247.282			
Half Year Sub-total	503.312	0.000	0.000	0.000	503.312			
Jul-2015	233.422	0.000	0.000	0.000	233.422			
Aug-2015	62.367	0.000	0.000	0.000	62.367			
Sep-2015	9.555	0.000	0.000	0.000	9.555			
Oct-2015	7.218	0.000	0.000	0.000	7.218			
Nov-2015	11.578	0.000	0.000	0.000	11.578			
Dec-2015								
Project Total Quantities	891.668	0.000	0.000	0.000	891.668			

	Actual Quantities of Non-inert Construction Waste Generated Monthly								
Month	Metals		Paper/ cardboard packaging		Plastics (see Note 3)		Chemical Waste		Others, e.g. General Refuse disposed at Landfill
	(in '0	(in '000kg)		(in '000kg)		(in '000kg)		00kg)	(in '000ton)
	generated	recycled	generated	recycled	generated	recycled	generated	Disposed	generated
Sub-total	0.000	0.000	1.050	1.050	0.000	0.000	0.110	0.110	0.605
Jan-2015	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.080
Feb-2015	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.074
Mar-2015	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.115
Apr-2015	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.091
May-2015	0.000	0.000	0.000	0.000	0.000	0.000	1.600	1.600	0.108
Jun-2015	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.120
Half Year Sub-total	0.000	0.000	0.000	0.000	0.000	0.000	1.600	1.600	0.588
Jul-2015	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.172
Aug-2015	0.000	0.000	0.000	0.300	0.000	0.000	0.000	0.000	0.246
Sep-2015	0.000	0.000	0.000	0.300	0.220	0.220	0.000	0.000	0.195
Oct-2015	0.000	0.000	0.000	0.300	0.000	0.000	0.000	0.000	0.177
Nov-2015	0.000	0.000	0.000	0.200	5.950	5.950	0.000	0.000	0.093
Dec-2015									
Project Total Quantities	0.000	0.000	2.150	2.150	6.170	6.170	1.710	1.710	2.076



Forecast of Total Quantities of Construction and Demolition Materials to be Generated from the Contract*						
Total Quantity Generated	Total Quantity Generated Hard Rock and Large Broken Concrete Reused in the Contract Reused in other Projects Disposed of as Pu					
(in '000 ton)	(in '000 ton)	(in '000 ton)	(in '000 ton)	(in '000 ton)		
50.000	0.000	0.000	0.000	50.000		

Forecast of Total Quantities of Construction and Demolition Materials to be Generated from the Contract*					
Metals	Paper/ cardboard packaging	Paper/ cardboard packaging Plastics (see Note 3) Chemical Waste General Refuse disposed of at I		General Refuse disposed of at Landfill	
(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m ³)	
0.000	0.000	0.000	0.000	0.200	

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).