Table J1Cumulative Statistics on Exceedances

Monitoring Parameters	Action/Limit Level	Total No. recorded in this reporting quarter	Total No. recorded since project commencement
1-Hr TSP	Action	0	30
	Limit	0	2
24-Hr TSP	Action	0	5
	Limit	0	1
Water Quality	Action	0	6
-	Limit	0	1
Impact Dolphin	Action	0	9
Monitoring	Limit	1	9

Table J2Cumulative Statistics on Complaints, Notifications of Summons and
Successful Prosecutions

Reporting Period	Cumulative Statistics							
	Complaints	Notifications of	Successful					
		Summons	Prosecutions					
This Reporting Period	1	1	0					
(March 2017 to May								
2017)								
Total No. received since project	14	1	0					
commencement								

Email message		Environmental Resources Management
То	Ramboll Environ - Hong Kong, Limited (ENPO)	16/F Berkshire House, 25 Westlands Road Quarry Bay, Hong Kong
From	ERM- Hong Kong, Limited	Telephone: (852) 2271 3113 Facsimile: (852) 2723 5660 E-mail: jovy.tam@erm.com
Ref/Project number	Contract No. HY/2012/08 Tuen Mun-Chek Lap Kok Link-Northern Connection Sub-sea Tunnel Section	
Subject	Notification of Exceedance for Impact Dolphin Monitoring	9
Date	31 August 2017	ERM

Dear Sir or Madam,

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

0212330_Mar2017/May2017_dolphin_STG&ANI_NEL&NWL

A total of one limit level exceedance was recorded in the quarterly impact dolphin monitoring data between March 2017 and May 2017.

Regards,

Mr Jovy Tam Environmental Team Leader

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ERM-Hong Kong, Limited



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

Impact Dolphin Monitoring Notification of Exceedance

Log No.	0212330_Mar2017/May2017_dolphin_STG&ANI_NEL&NWL					
	[Total No.	of Exceedances = 1 Limit Level Exceedance]				
Date	Mar 2017 to May 2017 (monitored)					
	25 A	August 2017 (results received by ERM)				
Monitoring Area	Northeast	Lantau (NEL) and Northwest Lantau (NWL)				
Parameter(s) with	Quarterly	y encounter rate of dolphin sightings (STG)				
Exceedance(s)	Quarterly en	counter rate of total number of dolphins (ANI)				
Action Levels	NEL: STG < 4.2 & ANI < 15.5					
		or				
T	North Lantau Social cluster	NWL: SIG < 6.9 & ANI < 31.3				
Limit Levels		NEL: SIG < 2.4 & ANI < 8.9				
D 1 17 1		NWL: SIG < 3.9 & ANI < 17.9				
Recorded Levels	NEL	STG = 0.0 & ANI = 0.0				
	NWL	SIG = 0.93 & ANI = 5.25				
	One Limit Level Exceedance was	recorded in the quarterly impact dolphin monitoring at NEL and				
	NWL between March 2017 and M	lay 2017. The exceedance was reported in the approved <i>Forty</i> -				
	<i>third Monthly EM&A Report</i> dated	12 June 2017.				
Statistical Analyses	Further to the review of the availa	able and relevant dolphin monitoring data in the EM&A				
	programme by this Contract, stat	istical analyses were conducted as follows:				
	• A two-way ANOVA with rep	peated measures and unequal sample size was conducted using				
	Period (2 levels: baseline vs i	mpact – present quarter, March 2017 to May 2017) and Location (2				
	levels: NEL and NWL) as fixe	ed factors to examine whether there were any significant				
	differences in the average en	counter rates between the baseline and present impact monitoring				
	quarter. By setting $\alpha = 0.05$	as the significance level in the statistical tests, significant				
	differences in SIG ($p = 0.0019$	9) and AINI ($p = 0.0186$) were detected between Periods.				
		. 1 1 1 1 . 1 . 1 . 1 .				
	A two-way ANOVA with Current lating David (2 lat	repeated measures and unequal sample size was conducted using				
	Cumulative Period (2 lev	(2) levels: Distering vs impact – cumulative quarters", December 2012 to				
	Way 2017) and Location	(2 levels. NEL and NWE) as fixed factors to examine whether there				
	were any significant diff	erences in the average encounter rates between the baseline and t_{toring} quantum $R_{toring} = 0.00005$ as the significance level in				
	the statistical tests, signi	ficent difference in STC $(n = 0.000001)$ and in ANI $(n = 0.000000)$				
	hotwoon Cumulative Dec	fical and Leastion were detected				
	*Note: The commencement date 1	inder Contract No. HV/2012/08 is 1 November 2013				
	Note. The commencement date t	inder Contract 140, 111/2012/00 15 1 140 veniber 2013.				
Works Undertaken (in	In the quarter between March 201	7 and May 2017, the major marine works under Contract No.				
the monitoring	<i>HY/2012/08</i> included:					
quarter)	Construction of Vertical Sea	awall;				
	Band drain installation; and	1				
	Filling works.					

Possible Reason for	The notential factors that may have contributed to the cheering averaging are reviewed below.
Action or Limit Loval	Placking of CMD travelling corridor
Euconden co(c)	• blocking of CWD travening corridor.
Exceedance(s)	The Monitoring of Marine Mammals in Hong Kong Waters (2016 – 17) ⁽¹⁾ reported that dolphin
	usage and traveling activities to the northern side of the airport (dolphin traveling corridor) are
	affected by frequent high-speed ferry traffic from Sky Pier (not related to this Contract), which
	is likely a major factor resulting in the decrease in dolphin abundances in North Lantau.
	Marine works of the Contract:
	As per the findings from the EIA report (Section 8.11.9), the major influences on the Chinese
	White Dolphin (CWD) Sousa chinensis under this Contract are marine traffics, reclamation and
	dredging works. The Contractor implemented the marine traffic control in the reporting
	period as per the requirements in the EP-354/2009/D and the updated EM&A Manual. Most of
	the vessels of this Contract also worked within the site boundary, in which the area is seldom
	used by CWD. Disturbance from vessels of this Contract is considered minor. The
	reclamation and dredging works of this Contract (Phase 2) commenced on 27th December 2016.
	Filling works were undertaken within 200m leading seawall throughout the filling period and
	the working rate described in the EP and the approved EIA Report were strictly followed.
	After reviewing of the daily filling records, all daily filling work rates in this quarter are under
	the maximum work rate described in the EP. During this quarter of dolphin monitoring, no
	adverse impact on CWD due to the activities under this Contract was observed.
	Impact on water quality:
	According to the findings in the water quality monitoring results at the impact monitoring
	stations between March 2017 and May 2017, there was no exceedance on WQM. Impact mean
	levels of depth-averaged SS at all sampling stations during both mid-ebb and mid-flood tides
	were well below the corresponding ambient levels. The WQM results imply that no
	unacceptable impact on water quality was associated with the marine works under this
	Contract, and thus no indirect impacts on marine habitat quality due to change in water
	quality is observed in this Contract.
	In view of the above, marine ecological mitigation measures were considered properly
	implemented, and thus no unacceptable impact on CWD or its habitat was associated with this
	Contract in this quarter from March 2017 and May 2017.

Actions Taken / To Be	With reference to the site inspection records in this quarter, the respective marine ecological
Taken	mitigation measures have been implemented properly by the Contractor throughout the marine
	works period, including:
	1. 250m dolphin exclusion zone;
	2. Acoustic decoupling plan;
	3. Training to workers;
	4. Offsite vessel routing control in accordance with Regular Marine Travel Routes Plan, including
	routing control within existing and proposed marine park boundaries;
	5. Vessels speed limited at 5 knots and 10 knots within existing and proposed marine park
	boundaries and site boundary respectively;
	6. Idling and mooring of working vessels within site boundary;
	The existing mitigation measures are recommended to be continuously implemented. Furthermore,
	it is also recommended to reduce the vessels for marine works as much as possible. The ET will
	monitor for future trends in exceedance(s).
	A joint team meeting was held on 17 July 2017 for discussion on CWD trend, with attendance of
	ENPO, HyD, Representatives of Resident Site Staff (RSS), Representatives of Environmental Team
	(ET) for Contract No. HY/2010/02, HY2011/03, HY/2012/07 and HY/2012/08. The
	discussion/recommendation as recorded in the minutes of the meeting, which might be relevant to
	this Contract are summarized below. It was concluded that the HZMB works is one of the
	contributing factors affecting the dolphins. It was also concluded the contribution of impacts due
	to the HZMB works as a whole (or individual marine contracts) cannot be quantified or separate
	from the other stress factors. It was reminded that the E1s shall keep reviewing the
	implementation status of the dolphin related mitigation measures and remind the contractor to
	RMP houndary in the Regular Marine Travel Route Plan. The participants were requested by
	FNPO to collect and report the marine traffic statistics. It was recommended that the marine works
	of HZMB projects should be completed as soon as possible so as to reduce the overall duration of
	impacts and allow the dolphins population to recover as early as possible. It was also suggested
	that the protection measures (e.g., speed limit control) for the proposed Brothers Marine Park (BMP)
	shall be brought forward as soon as possible before its establishment so as to provide a better habitat
	for dolphin recovery. It is noted that even though marine vessels may moor within the mooring
	site of BMP, commercial activities including loading / unloading / transhipment are not allowed
	except a permit is obtained. The HZMB works vessels were recommended to avoid the BMP. It
	was also recommended that the marine works footprint (e.g. reduce the size of peripheral silt
	curtain) and vessels for the marine works should be reduced as much as possible, and vessels idling
	/ mooring in other part of the North Lantau shall be avoided whenever possible.
	It was reminded that starting from January 2016, high-speed ferry (HSF) from the SkyPier would be
	re-routed north to the northern edge of the Sha Chau and Lung Kwu Chau Marine Park that had the
	highest density of CWD in the NWL. While the HSF would reduce speed to 15 knots, the
	associated disturbance might still affect CWD in the area. It implied that the CWDs in the area
	should be closely followed.
Remarks	The results of impact dolphin monitoring, the status of implemented marine ecological mitigation
	measures are documented in the approved Forty-first to Forty-third Monthly EM&A Reports.



ENVIRONMENTAL COMPLAINT/ENQUIRY INVESTIGATION REPORT

Our Reference: 0212330_Complaint LOG_20170328_13

Basic Information of Complaint/Enquiry

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

Details of Complaint/Enquiry

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

Investigation Report

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

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

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

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

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

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

Nevertheless, The Contractor has been reminded to adhere strictly to implement all relevant mitigation measures of noise impact recommended or specified in the EP (EP-354/2009/D), the approved EIA and the Updated EM&A Manual of this Project to avoid causing noise pollution. No other additional action is required. The Contractor shall also fully comply with the conditions in the approved CNP to carry out construction works under the Contract.

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

Date of File Closed : 11 May 2017

Approved and Filed by:

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

Annex A

Photo record



Annex A Photo provided by IEC



Annex B

Construction Programme

	2016				2017			
TMCLK Nerthern Connection Sub Sec Tunnel Section	Dec	Jan	Feb	Mar	Apr	Мау	Jun	Jul
TwoLk - Northern Connection Sub-Sea Tunner Section								
Contract Dates)
Commencement and Completion Dates		•						1
KD01 - Achievement of Stage 1 - Nth TBM & C&C for E&MS/TCSS		KD01 - A	chievement of Sta	ge 1 - Nth TBM & C&0	for E&MS/TCSS			
Site Possession Date			, , ,			, ,		, ,
Portions: X1,(N10,11,13 & 14) - Sth Landfall								
Portions: N1 to N4 & N12	Portions: N1 to N	4 & N12	1					1
General Submissions			1					1
Environmental								
Environmental Permit Submissions								: : !
Supplementary WMP of C&C Tunnel at Sth.Landfall								
Supplementary WMP of C&C Tunnel at Sth.Landfall								1
Sediment Quality Report/Dumping Permit								1
Southern Landfall								1 1
Southern landfall. Commencement of Shall & C&C Juniel Dwall								
Southern Landian - Continencement of Reviewal Shak Excavation								i 1
Complete SSTP and Obtain EPD's approval								1
Sediment Quality Report (SOR) - if required								
Advance Ground Investigation works for Sediment sampling								1
Sediment Sample Testing & Benort preparation			 		 			
Dumping Permit for Load Dumping (Loading Permit) - if required								i 1
Finalize the applivation document and submit to EPD - for Dwall								1
Notify the results and issue Loading Permit for Local & Cross Boundary Crossing - for Dwall								
PAYMENT MILESTONE								i 1
Design and Design Checking of the Works			 					
MS 2.5 Submit AIP for seawall modification works at Southern Landfall				P for seawall modific	tion works at South	ern Landfall		
MS 2.6 Approve AIP for seawall modification works at Southern Landfall by the Supervising Officer						MS 2 6 Approve AIR	for seawall modified	tion works at Sou
MS 2.44 Approve DDA for South Ventilation Building by the Supervising Officer					•		ior seawaii moonica	1 1
MS 2.52 Approve DDA for Facilities Provision for TCSS by the Supervising Officer								1 1
MS 2.60 Approve DDA for Drainage. Severage. Waterworks and Utilities at Northern Landfall by the Supervi:			¦					,
MS 2.69 Submit draft Operation and Maintenance Manual for all Tunnels and Cross Passgaes								
MS 2 70 Accent Operation and Maintenance Manual for all Tunnels and Cross Passgaes by the Supervising	pervising Officer							
MS 2.71 Submit draft Operation and Maintenance Manual for all works except Tunnels and Cross Passnaes								1
MS 2.72 Accent Operation and Maintenance Manual for all works excent Tunnels and Cross Passnaes by the	as by the Supervising (Diffic						
Tunnel Boring Machine (TBM) and Back-up Equipment for TBM Tunnel								,
MS 3.1.6 Removal of TBM for Southbound Tunnel from Site after the completion of TBM Tunnel			► MS 3 1 6 Bemo	¦ val of TBM for Southb	່ ound Tunnel from Sit	e after the completion	of TBM Tunnel	
MS 3.1.12 Removal of TBM for Northbound Tunnel from Site after the completion of TBM Tunnel				MS 3 1 12 Remov	of TBM for Northbo	und Tunnel from Site	after the completion	of TBM Tunnel
MS 3.1.25 Demolition of Slurry Treatment Plant on completion				MS 3.1.25 Demoli	ion of Slurry Treatme	nt Plant on completio		
MS 3.1.26 Complete the whole of the activities under this Cost Centre Part to the satisfaction of the Supervisin								1
TBM Tunnel								¦
MS 3.3.4 Complete walls of retrieval shaft								
MS 3.3.5 Complete excavation to formation level for retrieval shaft and complete casting of base slab	MS 3.3.5 Complete	excavation to format	ion level for retriev	al shaft and complete	casting of base slab			1
MS 3.3.6 Complete all necessary works of retrieval shaft to facilitate retrieval of TBM	MS 3.3.6 Complete	all necessary works	of retrieval shaft to	facilitate retrieval of T	ВМ			
MS 3.3.40 Completion of excavation, support and permanent lining for 47.5% of the total length (measured or	f the total length (measu	red on plan) of the						1
MS 3.3.41 Completion of excavation, support and permanent lining for 50% of the total length (measured on I	ent lining for 50% of the	total length (measur	red on plan) of the	Ņ				
MS 3.3.42 Completion of excavation, support and permanent lining for 52.5% of the total length (measured or	ent lining for 52.5% of t	he total length (meas	ured on plan) of th	ė				
MS 3.3.43 Completion of excavation, support and permanent lining for 55% of the total length (measured on I	ent lining for 55% of the	total length (measur	ed on plan) of the	Ň				1
MS 3.3.44 Completion of excavation, support and permanent lining for 57.5% of the total length (measured or	ent lining for 57.5% of t	he total length (meas	ured on plan) of th	ė				1
MS 3.3.45 Completion of excavation, support and permanent lining for 60% of the total length (measured on	ent lining for 60% of the	total length (measur	red on plan) of the	Ň				1
MS 3.3.46 Completion of excavation, support and permanent lining for 62.5% of the total length (measured or	support and permanen	t lining for 62.5% of th	he total length (me	asured on plan) of the			i	 ! !
MS 3.3.47 Completion of excavation, support and permanent lining for 65% of the total length (measured on	support and permanen	t lining for 65% of the	total length (mea	ured on plan) of the N	i.			1
MS 3.3.48 Completion of excavation, support and permanent lining for 67.5% of the total length (measured or	support and permanen	t lining for 67.5% of th	he total length (me	asured on plan) of the				
MS 3.3.49 Completion of excavation, support and permanent lining for 70% of the total length (measured on	support and permanen	t lining for 70% of the	total length (mea	ured on plan) of the N	i			1
MS 3.3.50 Completion of excavation, support and permanent lining for 72.5% of the total length (measured or	pletion of excavation. su	pport and permanen	t lining for 72.5%	of the total length (mea	¦ sured on plan) of the			
MS 3.3.51 Completion of excavation, support and permanent lining for 75% of the total length (measured on	pletion of excavation, su	pport and permanen	t lining for 75% of	the total length (meas	ured on plan) of the l	,, N		
MS 3.3.52 Completion of excavation, support and permanent lining for 77.5% of the total length (measured or	pletion of excavation, su	pport and permanen	t lining for 77.5%	of the total length (mea	sured on plan) of the			
MS 3.3.53 Completion of excavation, support and permanent lining for 80% of the total length (measured on	pletion of excavation, su	pport and permanen	t lining for 80% of	the total length (meas	ured on plan) of the I	ά l		1
MS 3.3.54 Completion of excavation, support and permanent lining for 82.5% of the total length (measured or	MS 3.3.54 Comple	tion of excavation, su	port and perman	ent lining for 82.5% of	the total length (mea	sured on plan) of the		
MS 3.3.55 Completion of excavation, support and permanent lining for 85% of the total length (measured on I	 MS 3.3.55 Complete 	tion of excavation, su	port and perman	eht lining for 85% of th	e total length (measure	red on plan) of the N		J I I
MS 3.3.56 Completion of excavation, support and permanent lining for 87.5% of the total length (measured or	 MS 3.3.56 Comple 	tion of excavation, su	pport and perman	ent lining for 87.5% of	the total length (mea	sured on plan) of the		
MS 3.3.57 Completion of excavation, support and permanent lining for 90% of the total length (measured on u	 MS 3.3.57 Comple 	tion of excavation, su	port and perman	eht lining for 90% of th	e total length (measu	ired on plan) of the N		
MS 3.3.58 Completion of excavation, support and permanent lining for 92.5% of the total length (measured or	MS 3.3 58 Comple	tion of excavation, su	ipport and perman	ent lining for 92 5% of	the total length (measured)	sured on plan) of the		1
MS 3.3.59 Completion of excavation, support and permanent lining for 95% of the total length (measured on		MS 3 3 59 Comple	tion of excavation	support and perman	nt lining for 95% of #	he total length (mean	ired on plan) of the M	N
MS 3.3.60 Completion of excavation, support and permanent lining for 97.5% of the total length (measured or		MS 3.3.60 Comple	tion of excavation	support and permane	ant lining for 97 5% o	the total length (measured)	sured on plan) of the	4
MS 3.3.61 Completion of excavation, support and permanent lining for 0.0% of the total length (included of		MS 3 3 61 Comple	tion of excavation	support and perman	ant lining for 100% of	the total length (mean	sured on plan) of the	
MS 3.3.104 Completion of excavation, support and permanent lining for 70% of the total length (measured or	, support and permane	ent lining for 70% of the	e total length (me	sured on plan) of the				
MS 3.3.105 Completion of excavation, support and permanent lining for 72 5% of the total length (measured u	, support and permane	ant lining for 72 5% of	the total length (me	easured on plan) of th				
MS 3.3.106 Completion of excavation, support and permanent lining for 75% of the total length (measured or	h, support and permane	rat lining for 75% of the	e total length (mo	sured on plan) of the				
MS 3.3.107 Completion of excavation, support and permanent lining for 77 5% of the total length (measured in	h support and permane	ant lining for 77 5% of	the total length (~	easured on plan) of the				
MS 3.3.108 Completion of excavation, support and permanent lining for 80% of the total length (measured or	moletion of exception	an mining ior 77.5% OT	and ional length (ff	fthe total length (mag	sured on plan) of the			

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

Page 1 of 12		Planned Bar	TMCLK - Northern Connection Sub-Sea Tunnel Section			Date 12-Feb-14	TMCLK/DBJGEN/PRG/98507	Checked WYu	Approved
Project ID: TMCLK DWPE 16W25		Planned Bar - Critical	Deteiled Medic Decements (Dec. 5)	重要 這一		08-Apr-14 28-Aug-14 30-Od-15	TMCLK/DBJGEN/PRG/98507 Rev.B TMCLK/DBJGEN/PRG/98507 Rev.C TMCLK/DBJGEN/PRG/98507 Rev.F	SPa CLa WYu	WYu WYu
Tiojectib. ThioER DWTT Tow25	•	Planned Milestone	Detailed Works Programme (Rev. F)	港 貝 方市 Dragages Hong Kong	BOUYGUES TRAVAUX PUBLICS				
Data Date: 26-Feb-17	♦	 Progress bar Progress Milestone 	Three Months Rolling Programme	A member of the Bouygues Construction group Dragages - Bouygues Joint Venture 3	嘉 - 布依格聯營				
			Progress as of 26-Feb-17						

Activity Name		2016				2017			
Cross Passages for TBM Tunnel			Jan	Feb	Mar	Apr	May	Jun	Jul
MS 3.3.1 Complete 50% of ground treatment for excavation of all Type 1 Cross Passages	(Percentage to be c	MS 3.3.1 Complete	50% of ground treat	hent for excavatio	¦ n¦of all Type 1 Cross F	assages(Percentage	to be certified for 50°	%	
MS 3.3.3 Complete 50% of ground treatment for excavation of all Type 2 Cross Passages	s(Percentage to be c	MS 3.3.3 Complete	50% of ground treat	ment for excavatio	n of all Type 2 Cross F	assages(Percentage	to be certified for 50°	%	
MS 3.3.5 Complete 50% of excavation and support for all Type 1 Cross Passages(Percer	ntage to be certified f	•	MS 3.3.5 Complete	a 50% of excavatio	n and support for all 1	ype 1 Cross Passage	s(Percentage to be c	ertified for 50% corr	nplet
MS 3.3.7 Complete 50% of excavation and support for all Type 2 Cross Passages(Percer	ntage to be certified f	•	MS 3.3.7 Complete	50% of excavation	n and support for all T	ype 2 Cross Passage	s(Percentage to be c	ertified for 50% corr	nplet
MS 3.3.9 Complete 50% of permanent lining and internal structures for all Type 1 Cross F	Passages(Percentag		•	MS 3.3.9 Comp	lete 50% of permaner	t lining and internal s	tructures for all Type	1 Cross Passages(F	ercentage to be c
MS 3.3.11 Complete 50% of permanent lining and internal structures for all Type 2 Cross	Passages(Percenta				MS 3.3.11 Comple	te 50% of permanent	lining and internal st	ructures for all Type	2 Cross Passages
Cut-and-cover Tunnels at Southern Landfalls								, , ,	¦
MS 4.1.1 Complete 10% of total length (measured on plan) of temporary retaining walls t	for excavation of Cut-								
MS 4.1.2 Complete 20% of total length (measured on plan) of temporary retaining walls f	for excavation of Cut-								
MS 4.1.4 Complete 40% of total length (measured on plan) of temporary retaining walls f	for excavation of Cut-								
MS 4.1.5 Complete 50% of total length (measured on plan) of temporary retaining walls f	for excavation of Cut-							, 	
MS 4.1.6 Complete 60% of total length (measured on plan) of temporary retaining walls f	for excavation of Cut-								
MS 4.1.7 Complete 70% of total length (measured on plan) of temporary retaining walls f	for excavation of Cut-							J 1 1	
MS 4.1.8 Complete 80% of total length (measured on plan) of temporary retaining walls f	for excavation of Cut-								
MS 4.1.9 Complete 90% of total length (measured on plan) of temporary retaining walls f	for excavation of Cut-							1	
MS 4.1.10 Complete 100% of total length (measured on plan) of temporary retaining wal	lls for excavation of C							J 1 1	
MS 4.1.11									
MS 4.1.12 Complete 40% of excavation for Cut-and-cover tunnel		r tunnel						1	
MS 4.1.13 Complete 60% of excavation for Cut-and-cover tunnel		plete 60% of excavation	for Cut-and-cover tu	nnel				, , ,	
MS 4.1.14 Complete 80% of excavation for Cut-and-cover tunnel		•	MS 4.1.14 Comple	te 80% of excavat	qn for Cut-and-cover	tunnel			
MS 4.1.15 Complete 100% of excavation for Cut-and-cover tunnel	n plan) of Cut and or				• MS 4.1.15 Comple	ate 100% of excavatio	in for Cut-and-cover	unnel	
MS 4.1.17 Complete permanent tunnel structure for 20% of the total length (measured of	n plan) of Cut-and-cc	asured on plan) of Cut-a	ured on plan) of Cut	and cover Tunnel					
MS 4.1.18 Complete permanent tunnel structure for 30% of the total length (measured or	n plan) of Cut-and-cc	el structure for 30% of t	he total length (meas	wired on plan) of C	ut-and-cover Tunnel			, , ,	
MS 4.1.19 Complete permanent tunnel structure for 40% of the total length (measured of	n plan) of Cut-and-cc	rel structure for 40% of t	he total length (meas	ured on plan) of C	ut-and-cover Tunnel				
MS 4.1.20 Complete permanent tunnel structure for 50% of the total length (measured or	n plan) of Cut-and-cc	plete permanent tunnel	structure for 50% of	the total length (me	asured on plan) of Ci	it-and-cover Tunnel		1 1	
MS 4.1.21 Complete permanent tunnel structure for 60% of the total length (measured or	n plan) of Cut-and-cc			MS 4.1.21 Com	plete permanent tunn	el structure for 60% of	f the total length (mea	asured on plan) of C	່ມ່າ- and-cover Tunr
MS 4.1.22 Complete permanent tunnel structure for 70% of the total length (measured or	n plan) of Cut-and-cc				MS 4.1.22 Comple	te permanent tunnel	structure for 70% of t	he total length (mea	sured on plan) of (
MS 4.1.23 Complete permanent tunnel structure for 80% of the total length (measured or	n plan) of Cut-and-cc				MS 4.1.23 Comple	te permanent tunnel	structure for 80% of t	he total length (mea	sured on plan) of (
MS 4.1.24 Complete permanent tunnel structure for 90% of the total length (measured or	n plan) of Cut-and-cc				•	MS 4.1.24 Comple	te permanent tunnel	structure for 90% of	the total length (m
MS 4.1.26 Complete excavation for 50% of total length (measured on plan) of all Cross P	assages								
MS 4.1.27 Complete excavation for 100% of total length (measured on plan) of all Cross	Passages							J 1 1	
MS 4.1.29 Complete pavement for 50% of the total length (measured on plan) of Cut-and	d-cover Tunnel	•	MS 4.1.29 Comple	te pavement for 5)% of the total length (measured on plan) o	f Cut-and-cover Tunr	el	
Cut-and-cover Tunnel at Northern Landfall	-1								
MS 4.2.22 Complete tunnel internal structure for 50% of NB Northern Landfall TBM Tunn		B Northern Landfall TB	M Tunnel						
MS 4.2.23 Complete tunnel internal structure for 50% of SB Northern Landfall TBM Tunn		structure for 100% of INB	Inorthern Landiali		TRM Tuppol				
MS 4.2.24 Complete tunnel internal structure for 100% of SB Northern Landfall TBM Tun	inel	MS 4 2 25 Complete	e tunnel internal stru	ture for 100% of	B Northern Landfall	TBM Tunnel		1	
MS 4.2.29 Complete 100% of permanent lining and internal structures for all Northern La	andfall Cross Passag	plete 100% of permane	nt lining and internal	structures for all N	orthern Landfall Cross	Passages			
MS 4.2.30 Complete Permanent tunnel structure for 25% of Cut and Cover Tunnel		of Cut and Cover Tunne							
MS 4.2.31 Complete Permanent tunnel structure for 50% of Cut and Cover Tunnel		nel structure for 50% of 0	Cut and Cover Tunne					, , ,	
MS 4.2.32 Complete Permanent tunnel structure for 75% of Cut and Cover Tunnel		MS 4.2.32 Complet	e Permanent tunnel	structure for 75%	f Cut and Cover Tunr	el			
MS 4.2.34 Complete Permanent junction structure at interface between Cut-and-cover an	nd TBM Tunnel	d-cover and TBM Tunne							
Approach Ramp Structures to Cut-and-cover Tunnel at Southern	Landfall								
MS 5.1.2 Complete 40% of excavation for approach ramp structures								1	
MS 5.1.3 Complete 60% of excavation for approach ramp structures					-	· · · · · · · · · · · · · · · · · · ·		, , ,	
MS 5.1.4 Complete 80% of excavation for approach ramp structures									
MS 5.1.5 Complete 100% of excavation for approach ramp structures									
MS 5.1.6 Complete retaining wall foundation for 10% of the total length (measured on pla	an) of approach ram							, , ,	
MS 5.1.7 Complete retaining wall foundation for 20% of the total length (measured on pla	an) of approach ram								
MS 5.1.8 Complete retaining wall foundation for 30% of the total length (measured on pla	an) of approach ram								
MS 5.1.9 Complete retaining wall foundation for 50% of the total length (measured on pr	an) of approach rar							, , ,	
MS 5.1.11 Complete retaining wall foundation for 60% of the total length (measured on p	lan) of approach ran							1	
MS 5.1.12 Complete retaining wall foundation for 70% of the total length (measured on p	blan) of approach rar								
MS 5.1.13 Complete retaining wall foundation for 80% of the total length (measured on p	plan) of approach rar								
MS 5.1.14 Complete retaining wall foundation for 90% of the total length (measured on p	olan) of approach rar								
MS 5.1.15 Complete retaining wall foundation for 100% of the total length (measured on	plan) of approach ra							, , ,	
At grade Roads at Northern Landfall									
MS 6.2.13 Complete drainage installation of 20% length of total length (measured on pla	an) of drainage pipes				•	MS 6.2.13 Comple	te drainage installati	on of 20% length of	total length (meas
MS 6.2.17 Complete sewerage installation of 20% length of total length (measured on pla	an) of sewerage pipe			 		MS 6.2.17 Comple	te sewerage installat	on of 20% length of	f total length (meas
South Ventilation Buildings									
MS 7.1.1 Complete 100% of cofferdam for excavation		Im for excavation							
NS 7.1.2 Complete 100% of excavation to the formation level		ion to the formation leve) I I I	
MS 7.1.5 Complete 100% of iouridation for the Ventilation building	e ventilation building	lete concreting works	25% area of the tail	construction de	area for the second of	building			
MS 7.1.5 Complete concreting works of 50% area of the total construction floor area for the MS 7.1.5 Complete concreting works of 50% area of the total construction floor area for the	re ventilation building	ete concreting works of	MS 7 1 5 Complete	concreting work	of 50% area of the test	al construction former	rea for the ventilet	1 building	<u>.</u>
MS 7.1.6 Complete concreting works of 75% area of the total construction floor area for the	re ventilation building		ows 7.1.5 Completi		MS 7 1 6 Complete	concreting works of	75% area of the total	construction floor	rea for the ventilet
MS 7.1.7 Complete concreting works of 100% area of the total construction floor area for	the ventilation building					MS 7.1.7 Complete	concreting works of	100% area of the tr	tal construction flo
North Ventilation Buildings					Ì				1
MS 7.2.4 Complete concreting works of 25% area of the total construction floor area for the	ne ventilation building	area for the ventilation b	uilding					7 1 1	
MS 7.2.5 Complete concreting works of 50% area of the total construction floor area for the	ne ventilation buildin	lete concreting works of	50% area of the tota	construction floor	area for the ventilation	building			
MS 7.2.6 Complete concreting works of 75% area of the total construction floor area for the	ne ventilation building		MS 7.2.6 Complete	concreting works	of 75% area of the to	al construction floor a	rea for the ventilatior	building	
MS 7.2.7 Complete concreting works of 100% area of the total construction floor area for	the ventilation buildi					MS 7.2.7 Complete	e concreting works of	100% area of the to	tal construction flo
Facilities Provision for E&M Works for TBM Tunnel, Cut & Cover	Tunnels and Ci							1 1 1	
MS 9.1.1 Complete 25% of bonding terminal, opening and accessories, etc.		terminal, opening and a	ccessories, etc.		 			, , , , ,	
MS 9.1.2 Complete 25% of plinth, hoisting facilities and accessories, etc.		sting facilities and acce	ssories, etc.	Moores					
MS 9.1.3 Complete 50% of plinth hoisting facilities and accessories, etc.				MS 9.1.3 Comp	tete 50% of bonding to	ting facilities and	accessories, etc.	1	
MS 9.1.5 Complete 75% of bonding terminal opening and accessories, etc.				vio 9.1.4 Comp	ete 30% or plinth, hoi	an ig racilities and acc	MS 9 1 5 Complete	75% of bonding to:	minal opening and
MS 9.1.6 Complete 75% of plinth, hoisting facilities and accessories, etc.							MS 9.1.6 Complete	75% of plinth hoieti	ing facilities and ac
Page 2 of 12		hern Connection		: Inel Soction	; 		Date	Revision Ch	edved Approved
Planned Bar				THE SECTION		⊨ I	12-Feb-14 TMCLK/DBJ 08-Apr-14 TMCLK/DBJ 28-Aug-14 TMCLK/DBJ	GEN/PRG/98507 Rev.B SPa JGEN/PRG/98507 Rev.C CLr	WYu WYu
Project ID: TMCLK DWPF 16W25	Deta	iled Works Prog	ramme (Rev.	F)	査 音調 通	EOUYGUES	30-Od-15 TMCLK/DBJ	GEN/PRG/98507 Rev. F WYu	
Data Date: 26-Feb-17 Progress bar				_	HongKor				
Progress Milestone	Th	ree Months Rolli	ng Programm	е	A member of the Bouygues Construction gr Dragages - Bouygues Joint Ver	oup hune 寶嘉 - 布依格聯營			
		Progress as of	<u>26-</u> Feb-17						

Activity Name		2016				2017			
		Dec	Jan	Feb	Mar	Apr	May	Jun	Jul
Facilities Provision for E&M Works for North Ventilation Building	g					•			
MS 9.5.1 Complete 25% of bonoing terminal, main earth mat, clean earth mat, earth pil	i, lightning pit, conceal					•	MS 9.5.1 Complete	25% of bonding tern	hinal, main earth i
MS 9.5.2 Complete 25% of plinth, hoisting facilities, louver, wire mesh and accessories,	, etc.					•	MS 9.5.2 Complete	25% of plinth, hoistin	ng facilities, louver
MIS 9.5.3 Complete 25% of floor drain, water tank and accessories, etc.						•	MS 9.5.3 Complete	25% of floor drain, w	ater tank and acc
Construction							{ <i>!</i>		
Northern Landtall								1	, , ,
Construction									
Zone C1								J	, 1 1
Reclamation									
Surcharge Removal - Zone C1 - (CH493 to 543)								Surcharge Re	moval - Zone C1
Surcharge Removal - Zone C1 - (CH493 to 543)								Surcharge Re	moval - Zone C1
Zone C2									
Reclamation									1 1 1
Surcharge Removal - Zone C2 - (CH543 to 598)								Surcharge Re	moval - Zone C2
Zone B				 				J	
Reclamation									
Surcharge Removal - Zone B - (CH598 to 648)								J	,
Surcharge Period Zape P. (CH648 to 608) stage 1					hind Zama D (OUG	40 to (000) ato ao 0			
Surcharge Removal - Zone B - (CH598 to 698) stage 2							stage 2	·	
							Stage 2		
CH184 to CH231									
F - Anchor wall Installation - CH184 to CH231								J	, , ,
F - Backfilling up to 0.0mPD & G2 Installation to Andhor Wall- CH184 to CH231									
F - Backfilling up to +3.0mPD & G1 Installation to Anchor Wall- CH184 to CH231									
F - Backfilling up to +6.0mPD to Anchor Wall - CH184 to CH231				1		1			1
F - Backfilling to +6.0mPD to Existing Seawall - CH184 to CH231						1 1 1			
CH231 to CH278									
F - Backfilling up to +6.0mPD - CH231 to CH278									
F - Anchor wall Installation - CH231 to CH278						1 1 1			
F - Backilling up to 0.0mPD & G2 Installation to Anchor Wall- CH231 to CH278									
F - Dauximing up to +3.0mPD & G I Installation to Anchor Wall - CH231 to CH278						1 1 1		j I	
F - Backfilling to +6.0mPD to Existing Seawall - CH231 to CH278									
CH278 to CH327								, ¹	
F - Backfilling up to +6.0mPD - CH278 to CH327									
F - Anchor wall Installation - CH278 to CH327								1	
F - Backfilling up to 0.0mPD & G2 Installation to Anchor Wall - CH278 to CH327									
F - Backfilling up to +3.0mPD & G1 Installation to Anchor Wall - CH278 to CH327									
F - Backfilling up to +6.0mPD to Anchor Wall - CH278 to CH327						·		· · · · · · · · · · · · · · · · · · ·	
F - Backfilling to +6.0mPD to Existing Seawall - CH278 to CH327									
CH327 to CH381									
F - Backfilling up to +6.0mPD - CH327 to CH381									
F - Anchor wall installation - CH327 to CH381				, , , ,					, , !
F - Backlining up to 0.0mPD & G2 installation to Amotor Wall - CH327 to CH381									
F - Backfilling up to +6.0mPD to Anchor Wall - CH327 to CH381									
F - Backfilling to +6.0mPD to Existing Seawall - CH327 to CH381								1	, , ,
Box Culvert Extension									
Construction	-					 		·	
Ch000-010 Culvert Outfall									
Removal of temporary bulk head									
CH100-150 Land Section									, , ,
Pile A41/A39 CJ to Pile A39/A37 CJ						, , ,	 		
Box Culvert Structure									
Base slab construction including kicker				1				1	
Removal of strut S1						1 1 1			
Sliding formworks 1 st assembly									
Walls & top slab construction									
Removal of strut S2 & Backfilling up to required level						1 1 1			1
Pile A39/A37 CJ to Pile A37/A35 CJ									
Box Culvert Structure				 		 		1	
Pile cap construction									
Base slab construction including kicker									
Removal of strut S1				1					1 1 1
Walls & top slab construction									
Removal of strut S2 & Backfilling up to required level				1 1 1					1 1 1
FILE AST/ASS COTO FILE ASS/ASS CO				 			¦j	;	
Excavation to FEL									
Box Culvert Structure				1		 			1
Pile cap construction						, 1 1		1	
Base slab construction including kicker				 		 	, , , ,		
Removal of strut S1					1				
Walls & top slab construction				 		1 1		1	
Removal of strut S2 & Backfilling up to required level				1 1 1		1 1 1			1 1 1
Pile A35/A33 CJ to Pile A33/P117 CJ									
EL3 Excavation to FFL							¦	ا ا	
Box Culvert Structure								1	
Pile cap construction									
Base slab construction including kicker						, 1 1		1	, , , ,
Page 3 of 12 Planned Bar	TMCLK - North	ern Connection	Sub-Sea Tur	nel Section		1	Date 12-Feb-14 TMCLK/DBJ	Revision Che /GEN/PRG/98507 WY/+	ded Approved SPo
Planned Bar - Critical		2 5			香 床河 →	T	08-Apr-14 TMCLK/DBJ 28-Aug-14 TMCLK/DBJ	GEN/PRG/98507 Rev.B SPa GEN/PRG/98507 Rev.C CLa	WYu WYu
Project ID: TMCLK DWPF 16W25	Detail	ed Works Prog	ramme (Rev. I	F)	港賀易	BOUYGUES	30-Od-15 TMCLK/DBJ	GEN/PRG/98507 Rev. F WYu	
Data Date: 26-Feb-17 Progress bar	T	oo Montha Dalli	na Programm	0	A member of the Bouygues Construction are	ng bup	/		
Progress Milestone			ng i rograffiffe	6	Dragages - Bouygues Joint Ven	ture 寶嘉 - 布依格聯營			
		Progress as of	26-Feb-17						

ty Name	2016				2017			
	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul
Removal of strut S1								
Walls & top slab construction								
Pomoval of strut S2 & Podefilling up to required lovel								
Hernoval of strut 52 & Backlining up to required level					1 1			
Ch150-250 Marine Section					1			
ELS & Structure								
Pile A33/P117 CJ to Pile P113/P109 CJ								
Box Culvert Structure								
Base slab construction including kicker								
Removal of strut S1								
Walls & top slab construction								
Removal of strut S2 & Backfilling up to required level					1			
Dile D113/D100 C to Dile D105/D101 C								
Box Culvert Structure								
Box cuiveri Situciule								
Hemoval of strut S1								
Walls & top slab construction								
Removal of strut S2 & Backfilling up to required level								
Pile P105/P101 CJ to Pile P97/P93 CJ								
Box Culvert Structure								
Base slab construction including kicker								
Removal of strut S1					1 1			
Walls & top slab construction					L			
					1			
Roy Culvert Structure					1			
Base slab construction including kisker					1			
Base siao construction including Kicker					1			
Hemoval of strut S1					: : !			
Walls & top slab construction								
Pile P89/P85 CJ to Pile P81/P77 CJ								
Box Culvert Structure								
Base slab construction including kicker								
Removal of strut S1								
Walls & top slab construction								
Pile P81/P77 C I to Pile P73/P69 C I								
					1			
Box cuiveri Siruciure					1			
Base slab construction including kicker								
Removal of strut S1				 -	 			
Walls & top slab construction					1			
Ch250-380 Marine Section								
NewActivity								
ELS & Structure								
Geotextile - Phase 2 Reclamation - along combi wall system	Geotextile - F	hase 2 Reclamation	along combi wal	system				
Sand Blanket - Phase 2 Reclamation - along combi wall system	Sand Bla	anket - Phase 2 Recla	amation - along co	mbi wall system				
Band Drain - Phase 2 Reclamation - along combi wall system		Ba	nd Drain - Phase	Beclamation - along	combi wall system			
Public Fill - Phase 2 Reclamation - along combined system		Ba	Dublic F			ll aveta m		
				ili - Phase 2 Reclamat	ion - along combi wa '	ll system		
Pile P73/P69 CJ to Pile P65/P61 CJ								
ELS								
Excavation to 0.5m below strut S1				Excavation to 0.5m b	elow strut S1			
Installation of strut S1			i 🔰	Installation of str	ut S1			
Excavation to FEL				Excavation t	þ FEL			
Box Culvert Structure					1			
Base slab construction including kicker				Ba	se slab construction	ncluding kicker		
Removal of strut S1					Removal of strut S1	·····		
System FormworkAssmeb lv & Setup				· -	Q.#	stem Formwork Assem	ebly & Setup	
				-	3,			
Personal of struct CO & De of filling was to see when the set						vvans & top slab co		l'annua i
Removal of strut S2 & Backfilling up to required level					1	Remova	al of strut S2 & Backfi	lling up to require
Pile P65/P61 CJ to Pile P57/P53 CJ				 -	ı ı I			
ELS								
Excavation to 0.5m below strut S1			. 🗧	Excavation to 0.	5m below strut S1			
Installation of strut S1			N	Installation	of strut S1			
Excavation to FEL				Excava	on to FEL			
Box Culvert Structure								
Base slab construction including kicker					Base slab construe	tion including kicker		
Removal of strut S1					Removal of stra	ut S1		
Walle & ton slab construction				·	nemoval of str		lab construction	
					•	vvalis & top	siad construction	
Hemoval of strut S2 & Backhilling up to required level						Re	moval of strut S2 & B	ackfilling up to re
Pile P57/P53 CJ to Pile P49/P45 CJ								
ELS					1 1			
Excavation to 0.5m below strut S1				Excavation	to 0.5m below strut \$	\$1		
Installation of strut S1				Installa	tion of strut S1			
Excavation to FEL				E×	cavation to FEL			
Box Culvert Structure					 			
Base slab construction including kicker					Base slab co	hstruction including ki	cker	



Activity			2016	lan	Eeb	Mar	2017	May	lun	
	Pile P41/P37 CJ to Pile P33/P29 CJ			Jdll	reb		Арі	iviay	Jun	Jui
	ELS				 		 	 	 	
	Excavation to 0.5m below strut S1				1 1 1		xcavation to 0.5m be	low strut S1	1 1 1	
	Installation of strut S1						Installation of stru		 	
	Box Culvert Structure								1 1 1	
	Base slab construction including kicker				1 1 1			ase slab construction	n including kicker	
	Removal of strut S1				,			Removal of strut S1	7	1
	Walls & top slab construction				1 1 1				Walls & top slab o	construction
	Pile P33/P29 CJ to Pile P25/P21 CJ				1 1 1			1 1 1	1 1 1	
	Excavation to 0.5m below strut S1						Excavation to 0.5	h below strut S1	 	
	Installation of strut S1				!		Installation of	¦ ∳f strut S1	<u> </u> 	
	Excavation to FEL				1 1 1		Exca	ation to FEL	1 1 1	
	Box Culvert Structure				, , ,		_		· · ·	
	Base stab construction including kicker				1 1 1			Base slab const	truction including kick	ker
	Pile P25/P21 CJ to Pile P17/P13 CJ				, ,		 			
	ELS				, , ,				1 1 1	
	Excavation to 0.5m below strut S1				1 1 1		Excavation	to 0.5m below strut S	1	
	Removal of Ch365 Sheet Pile Wall Anchor Wall (Stage 1)				1 1 1		Ren	oval of Ch365 Sheet	Pile Wall Anchor W	all (Stage 1)
	Installation of strut S1				, , ,		lnsta	Hemoval of Ch365 S	neet Pile Wall Anch	or wall (Stage 2)
	Excavation to FEL							±xcavation to FEL	1	
	Removal of Ch365 Sheet Pile Wall Anchor Wall (Stage 3)							Removal of Cr	365 Sheet Pile Wal	Anchor Wall (Sta
	Box Culvert Structure									
	Base slab construction including kicker							Base s	ab construction inclusion	uding kicker
	Pile P17/P13 CJ to Pile P09/P05 CJ							, 111	y noval of strut 31	
	ELS							1 1 1	1 1 1	
	Excavation to 0.5m below strut S1							Excavation to 0.5	m below strut S1	
	Installation of strut S1				, , , ,		 	Installati	on of strut S1	
	Excavation to FEL				1 1 1				xcavation to FEL	
	Base slab construction including kicker								Base slab c	bnstruction includ
	Pile P09/P05 CJ to End Wall CJ								1 1 1 1	
	ELS				 					
	Excavation to 0.5m below strut S1							Excavation to	0.5m below strut S1	
	Miscellaneous works								Installation of strut	51
	Inspection Manhole (IM)				1 1 1					
	Inspection Manhole IM-01 to IM-04 & backfilling to +6.0mPD				 	 	 	 	 	
	Stop Log Opening (SLO)				1 1 1			1 1 1	1 1 1	
	Balance Hole (BH)				1 1 1			1 1 1	1 1 1	
	BH-01 to BH-03 & backfilling to +6.0mPD				1				1	
	BH-07 to BH-09 & backfilling to +6.0mPD		BH-07 to BH-09 & t	backfilling to +6.0mP	þ			, , ,	, , ,	
	North Launching Shaft									
	C(1) DDA for North C&C Tunnel Permanent Structure									
	SO's Review									
	SO Approval with Condition Received							; ; ;	; ; ;	
	North Ventilation Shaft									
	Construction									
	NVS - ML03 Tunnel Structure							1 1 1		
	NVS - ML02 Tunnel Structure				 			 	 	
	TMCLK VO-008 - Construction of Viaduct Foundations at Portion	N6A								
	Viaduct Pile Cap									
	Pier G1b							1		
	Pile Cap G1b - ELS Foundation			Pile Cap G1b -	ELS Foundation				, , , , ,	
	Pile Cap G1b - Removal of Existing ground slab			Pile Cap G	1b - Removal of E	xisting ground slab			,	
	Pile Cap G1b - Excavation & ELS Installation				Pile Cap G1b	Excavation & ELS Ins	stallation	1 1 1	 	
	Pile Cap G1b - Bebar & Concreting				Pile Cap	Pile Cap G1b - P	bar & Concreting	1 1 1	1 1 1	
	Pile Cap G1b - Backfilling & Temp Reinstatement					Pile Cap G1	- Backfilling & Tem	Reinstatement	1 1 1	
	Pier H1b				, , , ,		· · · · · · · · · · · · · · · · · · ·	,	 , , ,	
	Pile Cap H1b - ELS Foundation						Pile Cap H1b	ELS Foundation		
	Pile Cap H1b - Removal of Existing ground slab				1 1 1		Pile Cap	H1b - Removal of Ex	isting ground slab	hotollation.
	Pile Cap H1b - Blinding Concrete							Pile Cap H1b	Excavation & ELS I	te
	Pile Cap H1b - Rebar & Concreting								Pile Cap H1b - R	ebar & Concretinc
	Pier G1c				1 1 1			1	- - - - - - - - - - - - - - - - - - -	
	Pile Cap G1c - Preparation for ELS							1 1 1	1 1 1	
	Pile Cap G1c - Removal of Existing ground slab								 	
	Pile Cap G1c - Blinding Concrete									
	Pile Cap G1c - Rebar & Concreting				1 1 1			1 1 1	1 1 1	
	Pile Cap G1c - Backfilling & Temp Reinstatement								1 1 1	
	Pier H1c								 	
	Pile Cap H1c - Preparation for ELS Pile Cap H1c - Removal of Existing ground elab				, , ,			: : :	, , , , ,	
	Pile Cap H1c - Excavation & ELS Installation									
De	of 10			0.1.0 =		<u> </u>	1	Date	Revision Cha	edved Approved
rage	Planned Bar	I MCLK - Nort	nern Connection	Sub-Sea Tur	nel Section			12-Feb-14 TMCLKDB 08-Apr-14 TMCLKDB	JGEN/PRG/98507 WYu JGEN/PRG/98507 Rev.B SPa	SPo WYu
Projec	ID: TMCLK DWPF 16W25	Detai	iled Works Progr	amme (Rev. I	F)	た 「「「「」」「「」」「「」」「「」」」「「」」「「」」」「「」」」「「」」		28-Aug-14 TMCLKDB 30-Od-15 TMCLKDB	JGEN/PRG/98507 Rev.C CLa JGEN/PRG/98507 Rev.F WYu	WYu
Data r	ate: 26-Feb-17 Progress bar	 ,				American of the Bourseuse Construction				
	Progress Milestone	l hr	ee wonths Rollin	ig Programm	e	Dragages - Bouygues Joint Ven	fure 寶嘉 - 布依格聯營			
			Progress as of	26-Feb-17						

wy runo	L,	2016				2017			
North Approach TBM Tuppelling & Cross Passage	╉	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul
Construction							1		
Northern Landfall Surface Setup for TBM operation							1 1		
Gantry Removal at North TBM Launching Shaft						G	antry Removal at Nor	th TBM Launching S	haft
Slurry Treatment Plant Decommissioning & Removal							SI	urry Treatment Plant	Decommissionin
Gantry Removal at North Ventilation Shaft									
North Approach Tunnel Internal Structure - NB									
CP51 - Excavation & Lining completion	xcav	ation & Lining comple	tion						
NB - North TBM Tunnel - Corbel & Cable Trough installation	el - (Corbel & Cable Trough	ninstallation						
NB - North TBM Tunnel - OHVD Slab installation	Tunr	nel - OHVD Slab install	ation				1 1		
NB - North TBM lunnel - Fire proofing and Provision to E&MS and TCSS Contract for KD1	ГВМ	Tunnel - Fire proofing	and Provision to E	&MS and TCSS C	ontract for KD1				
North Approach Tunnel Internal Structure - SB	-	CR North TR	MTunnal Carbal	Coble Live Live	stallation				
SB - North TBM Tunnel - OH/D Slab installation		SB - North IBI	h TBM Tunnel - OH	VD Slab installet	stallation				
SB - North TBM Tunnel - Fire proofing & Provision to F&MS and TCSS Contract for KD1	-	SB - Norti	North TBM Tunnel	- Fire proofing & F	Provision to E&MS and	TCSS Contract for I	¦ kni		
North Approach Cross Passage	F			The proofing a l					
CP51 - Traditional Method									
CP Finishing & Demobilization	hing	& Demobilization							
North Ventilation Building									
Design Submission									
(A11) Submissons to Design Advisory Panel of ArchSD									
ArchSD's comment									
(II) DDA for North Vent.Bldgs. GBP & Arch.Submission									
SO's Review									
SO Approval with Condition Received							1		
(11) DDA for North & South Vent Bidg. ABWE works									
Designer to Reply RtC + Update Submission									
Submit Updated DDA to SO/ ICE/ IPs									
ICE Approval & Issue Check Cert									
Submit ICE Check Cert to SO									
IPs Review									
IP's No Objection Received			· · · · · · · · · · · · · · · · · · ·						
SO's Review									
SO Approval with Condition Received	Ħ								
(I2) DDA for North Vent.Bldgs.Structural Design incl.Vent.Connections									
IP's Ne Objection Received									
SQ Approval with Condition Received	1								
(I3) DDA for North & South Vent.Bldgs. Service and E&M Provision									
IPs Review									
IP's No Objection Received									
SO's Review									
SO Approval with Condition Received									
Construction									
Superstructure	Su	osiruciure				c	uperstructure		
Finishing Works									
North Reclamation (Phase 2)						-			
Construction									
Dredging - Phase 2 (Zone G)	11	Dred	ging - Phase 2 (Z	one G)					
VS - Rock Grade 400 - Zone G			VS - Rock Gra	de 400 - Zone G					
VS - Levelling Stone & Seawall Block - Zone G				VS - Le	velling Stone & Seawa	II Block - Zone G			
VS - Rock Type A - Zone G					VS - Rock Type A -	Zone G			
Vertical Seawall - Bermstone - (Zone G)					Vertio	al Seawall - Berms	one - (Zone G)		
Vertical Seawall - Seawall Coping - (Zone G)								Vertical Seaw	all - Seawa II Cop
Geotextile (Zone G)			Geotextile (Zone G)					
Band Drain (Zone G)				and Blanket (Zon	ed) Band Drain (Zono C)				
Bedamation - Phase 2					Boolometic	n - Phase 2			
Backfilling to +10mPD - Phase 2						11-1 Hase 2	Backfilling to ±10mP	D - Phase 2	
Surcharge - Phase 2	+-÷		י ע י י					- 1 11000 2	
North Surface Roadworks, Utility & Drainage works						-			
Construction							1 1 1		
North Landfall - Underground Sewerage & Drainage - Summary			-		1				
North Landfall - Underground Sewerage & Drainage - Portion N5			 						
Portion N7 - Removal of Barging Point & Surcharge Removal to +6mPD							Portion N7 - Remov	al of Barging Point &	Surcharge Rem
North Landfall - Underground Sewerage & Drainage - Portion N7							· · · · · · · · · · · · · · · · · · ·		
North Landfall - Watermain & Undergournd Utilities - Summary									
North Landfall - Watermain & Undergournd Utilities - Zone E							1		North Lan

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Approved SPo

Checked

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Sub-sea TBM Tunnelling

Major Procurement

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

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

Design Submission

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

Sub-sea TBM Tunnel Segment - Fabrication

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

Sub-sea Tunnel - Precast Gallery Fabrication

Construction

Sub-sea TBM Tunnel - NB

Page 6 d	f 12
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Project ID: TMCLK DWPF 16W25

Data Date: 26-Feb-17

3 ID12.2m - S881							
	• •	Planned Bar Planned Bar - Critical Planned Milestone Progress bar Progress Milestone	TMCLK - Northern Connection Detailed Works Prog Three Months Rolli	n Sub-Sea Tunnel Section ramme (Rev. F) ing Programme	香宿 香宿 香宿 香宿 香宿 香宿 香宿 香宿 香宿 香宿	BOLYCUES TAMALX PARKS	Date 12-Feb-14 08-Apr-14 28-Aug-14 30-Oct-15
	•		Progress as of	26-Feb-17	bragages booyges som remore a	α 2011 - 112 (3×114 π) ana	

70	with watte	2016	lan Feb	Mar	2017	May	Jun	1 .01
	NB - Sub-sea TBM Tunnel - ALLUVIUMS sandy with Trimix (Ch4600 to 4400 - 200m)	ub-sea TBM Tunnel - A	ALLUVIUMS sandy with Trimix (Ch4600	o 4400 - 200m)		lviay	Jun	
	NB - Sub-sea TBM Tunnel - ALLUVIUMS sandy with Trimix (Ch4400 to 4300 - 100m)	B - Sub-sea TBM Tunne	el - ALLUVIUMS sandy with Trimix (Ch4	400 to 4300 - 100m)	1			
	NB - Sub-sea TBM Tunnel - ALLUVIUMS sandy with Trimix (Ch4300 to 4200 - 100m)	NB - Sub-sea TBM T	unnel - ALLUVIUMS sandy with Trimix (Ch4300 to 4200 - 100n	m)			
	NB - Sub-sea TBM Tunnel - ALLUVIUMS silty with Trimix (Ch4200 to 3830 - 370m)	NB	- Sub-sea TBM Tunnel - ALLUVIUMS	sity with Trimix (Ch4200	(to 3830 - 370m)	 	 	
	NB - Sub-sea TBM Tunnel - ALLUVIUMS sandy with Trimix (Ch3830 to 37 t0 - 120m)		NB - Sub-sea IBM Junnel - ALLUV	MS sandy with Trimix (Ch3830 to 3/10 - 12	20m)		
	NB - Sub-sea TBM Tunnel - ALLUVIUMS sandy with Trimix (Ch3790 to 3460 - 130m)		NB - Sub-sea JBM Tunne	- ALLUVIUMS sandy v	with Trimix (Ch3590 t	ad 3460 - 130m)		
	NB - Sub-sea TBM Tunnel - ALLUVIUMS silty with Trimix (Ch3460 to 3360 - 100m)		NB - Sub-sea TBM Ti	unnel - ALLUVIUMS silt	with Trimix (Ch346	o to 3360 - 100m)		
	NB - Sub-sea TBM Tunnel - ALLUVIUMS sandy with Trimix (Ch3360 to 3160 - 200m)		NB - Sub-	sea TBM Tunnel - ALLL	VIUMS sandy with T	rimix (Ch3360 to 316	0 - 200m)	
	NB - Sub-sea TBM Tunnel - ALLUVIUMS silty with Trimix (Ch3160 to 3060 - 100m)		NB - S	Sub-sea TBM Tunnel - /	ALLUVIUMS silty with	h Trimix (Ch3160 to 3	960 - 100m)	/=====================================
	NB - Sub-sea TBM Tunnel - ALLUVIUMS silty with Trimix (Ch3060 to 2920 - 140m)			NB - Sub-sea TBM Tu	nnel - ALLUVIUMS :	silty with Trimix (Ch30	ð0 to 2920 - 140m)	
	NB - Sub-sea TBM Tunnel - ALLUVIUMS silty with Trimix (Ch2920 to 2820 - 100m)			NB - Sub-sea TB	M Tunnel - ALLUVIL	JMS silty with Trimix (C	h2920 to 2820 - 10	Ĵm)
	NB - Sub-sea TBM Tunnel - ALLUVIUMS sandy with Trimix (Ch2820 to 2/20 - 100m)			NB - Sub-sea	a TBM Tunnel - ALLU	JVIUMS sandy with Tr	imix (Ch2820 to 272	20 - 100m)
	NB - Sub-sea TBM Tunnel - ALLOVIOWS silty with Trimix (Ch2720 to 2673 - 47m)				ea IBM Iunnel - AL		(mix (Cn2/20 to 26/	3 - 4/m)
	NB - Sub-sea TBM Tunnel - ALLUVIUMS silty with Trimix (Ch2574 to 2512 - 62m)				- - - - - - - - - - - - - - - - - - -	nel - ALLUVIUMS silt	with Trimix (Ch257	4 to 2512 - 62m)
	S881 - TBM Removal at Southern Landfall						S881 - TBM F	emoval at Southe
	Sub-sea TBM Tunnel - SB ID12.2m - S882							
	SB - Sub-sea TBM Tunnel - ALLUVIUMS sandy with Trimix (Ch3611 to 3481 - 130m)	SB - Sub-sea TBM 1	Funnel - ALLUVIUMS sandy with Trimix	Ch3611 to 3481 - 130r	'n)			
	SB - Sub-sea TBM Tunnel - ALLUVIUMS silty with Trimix (Ch3481 to 3381 - 100m)	SB - Sub-sea T	BM Tunnel - ALLUVIUMS silty with Trim	ik (Ch3481 to 3381 - 10	00m)			
	SB - Sub-sea TBM Tunnel - ALLUVIUMS sandy with Trimix (Ch3181 to 3081 - 200m)	SB-S	ub-sea IBM lunnel - ALLUVIUMS san	y with Trimix (Ch3381)	to 3181 - 200m)		1	
	SB - Sub-sea TBM fullier - ALLUVIUMS silty with firmix (Ch3081 to 2941 - 140m)		SB - Sub-sea TBM Tunnel - ALLOVIONS	MUMS silty with Trimix (Ch3081 to 2941 - 1	40m)		
	SB - Sub-sea TBM Tunnel - ALLUVIUMS silty with Trimix (Ch2941 to 2841 - 100m)		SB - Sub-sea TBM Tunnel - A	LUVIUMS silty with Tri	imix (Ch2941 to 284	1 - 100m)		
	SB - Sub-sea TBM Tunnel - ALLUVIUMS sandy with Trimix (Ch2841 to 2741 - 100m)		SB - Sub-sea TBM Tunne	ALLUVIUMS sandy	with Trimix (Ch2841	to 2741 - 100m)		
	SB - Sub-sea TBM Tunnel - ALLUVIUMS silty with Trimix (Ch2741 to 2694 - 47m)		SB - Sub-sea TBM Tun	rel - ALLUVIUMS silty	vith Trimix (Ch2741	່ຜຸ 2694 - 47m)		
	SB - Sub-sea TBM Tunnel - ALLUVIUMS silty with Trimix (Ch2694 to 2595 - 99m)		SB - Sub-sea TBA	Tunnel - ALLUVIUMS	silty with Trimix (Ch2	694 to 2595 - 99m)		
	SB - Sub-sea TBM Tunnel - ALLUVIUMS silty with Trimix (Ch2595 to 2533 - 62m)		SB - Sub-sea	TBM Tunnel - ALLUVIU	MS silty with Trimix	Ch2595 to 2533 - 62	m)	
	SB - IBM Hemoval at Southern Landfall				SB - TBM Remo	val at Southern Land	tall	
	NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP33	Tunnel - Precast Invert	Gallery - Completion to CP33		1 1 1			
	NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP32	BM Tunnel - Precast In	vert Gallery - Completion to CP32					
	NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP31	sea TBM Tunnel - Prec	cast Invert Gallery - Completion to CP31					
	NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP30	Sub-sea TBM Tunnel -	Precast Invert Gallery	P\$o	, , ,			
	NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP29	B - Sub-sea TBM Tunn	el - Precast Invert Gallery - Completion	10 CP29				
	NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP28	NB - Sub-sea TBM 1	Funnel - Precast Invert Gallery - Comple	ton to CP28				
	NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP27	NB - Sub-sea T	BM Tunnel - Precast Invert Gallery - Co	npletion to CP27				
	NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP26	NB - Sub-s	sea TBM Tunnel - Precast Invert Gallery	Completion to CP26	- 			
	NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP24		NB - Sub-sea TBM Tunnel - Precast Invertion	allery - Completion to C	to CP24			
	NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP23		NB - Sub-sea TBM Tunnel - Precast	Invert Gallery - Comple	tion to CP23			
	NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP22		NB - Sub-sea TBM Tunnel - Pre	cast Invert Gallery - Co	mpletion to CP22			
	NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP21		NB - Sub-sea TBM Tunnel -	Precast Invert Gallery -	Completion to CP21	ı		
	NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP20		NB - Şub-sea TBM Tur	nel - Precast Invert Ga	lery - Completion to	CP20		
	NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP19		NB - Sub-sea TBM	Tunnel - Precast Inver	Gallery - Completio	n to CP19		
	NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP18		NB - Sub-se	a TBM Tunnel - Precas	t Invert Gallery - Cor	ipletion to CP18		
	NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP17			ID-sea TBM Tunnel - Pr	ecast Invert Gallery	Completion to CP17	P16	
	NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP15			NB - Sub-sea TBM Tu	unnel - Precast Invert	t Gallery - Completion	to CP15	
	NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP14			NB - Sub-sea TE	3M Tunnel - Precast	Ihvert Gallery - Comp	letion to CP14	
	NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP13			NB - Sub-se	a TBM Tunnel - Prec	ast Invert Gallery - C	mpletion to CP13	
	NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP12			NB - Su	b-sea TBM Tunnel -	Precast Invert Galler	y - Completion to CP	12
	NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP11			NB	- Sub-sea TBM Tuni	nel - Precast Invert Gr	allery - Completion to	CP11
	NB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP10				NB - Sub-sea TBM	Tunnel - Precast Inve	t Gallery - Completio	on to CP10
	SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP23	SB - Sub-se	a TBM Tunnel - Precast Invert Gallery -	completion to CP23				
	SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP22	SB - S	ub-sea TBM Tunnel - Precast Invert Ga	lery - Completion to CF	22			
	SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP21		SB - Sub-sea TBM Turinel - Precast Inv	art Gallery - Completior	to CP21			
	SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP20		SB - Sub-sea TBM Tunnel - Precas	hvert Gallery - Comp	letion to CP20			
	SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP19		SB - Sub-sea TBM Tunnel - P	recast Invert Gallery - C	pmpletion to CP19			
	SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP18		SB - Sub-sea TBM Tu	rnel - Precast Invert Ga	allery - Completion to	CP18		
	SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP17		SB - Sub-sea IBI	unnel - Precast Inve	rt Gallery - Completio	on to CP17	1	
	SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP15		SB-Sut	Sub-sea TBM Tunnel	Precast Invert Gallery - 0	-vompletion to CP16	415	
	SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP14			B - Sub-sea TBM Tur	nel - Precast Invert	Gallery - Completion	to CP14	+
	SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP13			SB - Sub-sea	TBM Tunnel - Preca	st Invert Gallery - Co	npletion to CP13	
	SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP12			SB - Sul	b-sea TBM Tunnel -	Precast Invert Gallery	- Completion to CP	12
	SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP11			. .	SB - Sub-sea TBM T	unnel - Precast Invert	Gallery - Completion	n to CP11
	SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP10				SB - Sub-sea TE	M Tunnel - Precast In	vert Gallery - Compl	etion to CP10
	SB - Sub-sea TBM Tunnel - Precast Invert Gallery - Completion to CP09				SB - Sub-sea	a TBM Tunnel - Preca	st Invert Gallery - Co	mpletion to CP09
	SB - Sub-sea Tunnel Cross Passage & Internal Structure				SB - Sut	x-sea IBM lunnel - P	recast Invert Gallery	Completion to C
	Construction							
	Sub-sea Tunnel Cross Passage							
	CP47 - ML03 - Ch6390			1	 		1	1
	CP - Remaining Internal Structure & Finishing						 	
	CP46 - ML03 - Ch6292 CP - Bemaining Internal Structure & Einishing	shina			1 1 1			
	CP45 - ML03 - Ch6193				1 1 1			
	CP - Remaining Internal Structure & Finishing	Finishing			L			
	CP44 - ML03 - Ch6095				1 1 1			
	CP - Pipe Jacking Method - Break-out & Demobilization	Demobilization			1 1 1			
	CP - Remaining Internal Structure & Finishing	al Structure & Finishing	g	<u> </u>	1	l Dett	Povicion	l dadad
Pa	ge 7 of 12 Planned Bar TM	CLK - Northern Connectio	n Sub-Sea Tunnel Sectior			12-Feb-14 TMCLKDB 08-Apr-14 TMCLKDE	JGEN/PRG/98507 WYu JGEN/PRG/98507 Rev.B SPa	SPo WYu
Pro	ject ID: TMCLK DWPF 16W25	Detailed Works Proc	aramme (Rev. F)	香寶素		28-Aug-14 TMCLKDB 30-Od-15 TMCLKDB	IGEN/PRG/98507 Rev.C CLa JGEN/PRG/98507 Rev.F WYu	WYu
	Progress har			Dragage HongKon	BOUYGUES Ig			
Dat	a Date: 20-FeD-17 ♦ Progress Milestone	Three Months Roll	ling Programme	A member of the Bouygues Construction gro Dragages - Bouygues Joint Ven	oup ture 寶嘉 - 布依格聯營			
		Progress as of	26-Feb-17					
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iy Nane	2016				2017			
	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul
CP43 - ML03 - Ch5996								
CP - Pipe Jacking Method - Break-out & Demobilization	it & Demobilization							
CP - Remaining Internal Structure & Finishing	ternal Structure & Finish	ing			1			
CP42 - MEU3 - CI13098	maining Internal Structu	ro 9 Einiching						
CP40 - MI 03 - Cb5703	haining internal Structu	ie a r misning						
CP - Pipe Jacking Method - Setup & Assembly	Setup & Assembly							
CP - Piping Jacking Method - Break-in & Excavation	ng Method - Break-in &	Excavation						1
CP - Pipe Jacking Method - Break-out & Demobilization	Jacking Method - Brea	k-out & Demobilizatio	on					
CP - Remaining Internal Structure & Finishing	CP - Remaining	Internal Structure & F	Pinishing					1
CP39 - ML03 - Ch5607								
CP - Piping Jacking Method - Break-in & Excavation	cking Method - Break-ir	& Excavation			I I I			
CP - Pipe Jacking Method - Break-out & Demobilization	ipe Jacking Method - B	reak-out & Demobiliz	ation					
CP - Remaining Internal Structure & Finishing	CP - Remaini	ng Internal Structure	& Finishing		1 1 1			
CP38 - ML03 - Ch5510								
CP - Pipe Jacking Method - Setup & Assembly	Method - Setup & Asse	embly						
CP - Piping Jacking Method - Break-in & Excavation	P - Piping Jacking Metho	d - Break-in & Excav	vation					
CP - Pipe Jacking Method - Break-out & Demobilization	CP - Pipe Jacking	Method - Break-out	& Demobilization					
		CP - Remaining inte		inishing				
CP - Pipe Jacking Method - Break-out & Demobilization	CP - Pine Jack	ing Method - Break-o	out & Demobilize	n	1 1			
CP - Remaining Internal Structure & Finishing		CP - Remaining In	ternal Structure &	-¦ Finishina	¦			
CP36 - ML03 - Ch5315					- - 			
CP - Pipe Jacking Method - Setup & Assembly	Jacking Method - Setu	p & Assembly						1
CP - Piping Jacking Method - Break-in & Excavation	CP - Piping	Jacking Method - Br	reak-in & Excavati	οĥ				
CP - Pipe Jacking Method - Break-out & Demobilization		- Pipe Jacking Meth	od - Break-out & D	emobilization				1
CP - Remaining Internal Structure & Finishing		CP -	Remaining Intern	al Structure & Finishing	ģ	1	1	
CP35 - ML03 - Ch5217								
CP - Pipe Jacking Method - Setup & Assembly	- Pipe Jacking Method	Setup & Assembly						
CP - Piping Jacking Method - Break-in & Excavation	CP - Pip	ing Jacking Method -	Break-in & Excav	ațion				
CP - Pipe Jacking Method - Break-out & Demobilization		CP - Pipe Jacking Me	ethod - Break-out (Demobilization				
CP - Remaining Internal Structure & Finishing		CP	- Remaining Interr	hal Structure & Finishir	g			
CP34 - ML03 - Ch5118	D Dine Jackies Mathe							1
CP - Piping Jacking Method - Break-in & Evcavation	P - Pipe Jacking Metho	CR - Pining lack	ing Method - Bree	kin & Excavation				
CP - Pipe Jacking Method - Break-out & Demobilization		CP - Pip	lacking Method	- Break-out & Demobil	ization			
CP - Remaining Internal Structure & Finishing			CP - F	Remaining Internal Str	ucture & Finishing		 	
CP33 - ML03 - Ch5020				J J J J J J J J J J J J J J J J J J J	J. J			
CP - Pipe Jacking Method - Setup & Assembly	CP - Pipe Jacking Me	thod - Setup & Asse	mbly					
CP - Piping Jacking Method - Break-in & Excavation		CP - Piping Ja	king Method - Br	eak-in & Excavation				1
CP - Pipe Jacking Method - Break-out & Demobilization		CP-F	hipe Jacking Metho	od - Break-out & Demo	bilization			
CP - Remaining Internal Structure & Finishing			CP	- Remaining Internal	Structure & Finishing	J		
CP32 - ML03 - Ch4921								
CP - Pipe Jacking Method - Setup & Assembly	CP - Pipe Jack	ing Method - Setup &	& Assembly					
CP - Piping Jacking Method - Break-in & Excavation		C	P - Piping Jacking	Method - Break-in & E	xcavation			
CP - Pipe Jacking Method - Break-out & Demobilization		·····	CP - Pipe J	acking Method - Break	out & Demobilizatio	n The label of the second s		
CP21 MI 02 Ch4922				CP - Remaining Ir	ternal Structure & F	inishing ¦		
CP- Pipe Jacking Method - Setup & Assembly	CP - Pipe	acking Method - Set	un & Assembly					1
CP - Piping Jacking Method - Break-in & Excavation	Ci - Fipe J		CP - Piping Jacki	ha Method - Break-in /	& Excavation			
CP - Pipe Jacking Method - Break-out & Demobilization			CP - Pipe	Jacking Method - Bre	ak-out & Demobiliza	ation		
CP - Remaining Internal Structure & Finishing				CP - Remainir	g Internal Structure	& Finishing		
CP30 - ML03 - Ch4724						-		
CP - Pipe Jacking Method - Setup & Assembly	CP - Pi	pe Jacking Method -	Setup & Assembly	×				
CP - Piping Jacking Method - Break-in & Excavation			CP-	Piping Jacking Method	d - Break-in & Excav	ation		1
CP - Pipe Jacking Method - Break-out & Demobilization				CP - Pipe Jacking I	Method - Break-out a	Demobilization		
CP - Remaining Internal Structure & Finishing				CF	- Remaining Intern	al Structure & Finishir	g	
CP29 - ML03 - Ch4626								
CP - Pipe Jacking Method - Setup & Assembly	CF	- Pipe Jacking Meth	od - Setup & Asse	mbly				
CP - Pipe, Jacking Method - Break-out & Demohilization			C	CP Disc last	Mothed Break	avaiion		
CP - Remaining Internal Structure & Enishing					CP - Bemaining Int	anal Structure & Eisi	shina	
CP28 - ML03 - Ch4527							, in the second s	
CP - Pipe Jacking Method - Setup & Assembly		CP - Pipe Jackir	hg Method - Setur	& Assembly	1 1 1			1
CP - Piping Jacking Method - Break-in & Excavation				CP - Piping	acking Method - Br	eak-in & Excavation		
CP - Pipe Jacking Method - Break-out & Demobilization	1			CP	Pipe Jacking Metho	d - Break-out & Dem	obilization	
CP - Remaining Internal Structure & Finishing					CP -	Remaining Internal S	tructure & Finishing	
CP27 - ML03 - Ch4429					 			
CP - Pipe Jacking Method - Setup & Assembly		CP - Pipe J	acking Method - S	Setup & Assembly				1
CP - Piping Jacking Method - Break-in & Excavation				CP - Pipir	ng Jacking Method -	Break-in & Excavatio	'n	
CP - Pipe Jacking Method - Break-out & Demobilization				C	P - Pipe Jacking Me	thod - Break-out & De	mobilization	
CP - Remaining Internal Structure & Finishing	1.1			J : 💻		P - Remaining Intern	al Structure & Finishi	na



Sivily Name	2016 Eeb	2017 Mar Apr	May Lulun Jul
CP - Pipe Jacking Method - Setup & Assembly	CP - Pipe Jac	king Method - Setup & Assembly	
CP - Piping Jacking Method - Break-in & Excavation		-	P - Piping Jacking Method - Break-in & Excavation
CP - Pipe Jacking Method - Break-out & Demobilization			CP - Pipe Jacking Method - Break-out & Demobilizat
CP23 - ML03 - Ch4035			CF - Remaining internal Studure o
CP - Pipe Jacking Method - Setup & Assembly	CP-1	Pipe Jacking Method - Setup & Assembly	
CP - Piping Jacking Method - Break-in & Excavation			CP - Piping Jacking Method - Break-in & Excavation
CP - Pipe Jacking Method - Break-out & Demobilization			CP - Pipe Jacking Method - Break-out & Demobili
CP22 - ML03 - Ch3936			
CP - Pipe Jacking Method - Setup & Assembly		- Pipe Jacking Method - Setup & Assembly	
CP - Piping Jacking Method - Break-in & Excavation			CP - Piping Jacking Method - Break-in & Exca
CP - Pipe Jacking Method - Break-out & Demobilization			CP - Pipe Jacking Method - Break-ou
CP - Pipe Jacking Method - Setup & Assembly		OP - Pipe Jacking Method - Setup & Asse	əmbly
CP - Piping Jacking Method - Break-in & Excavation			CP - Piping Jacking Method - Break-in & E
CP - Pipe Jacking Method - Break-out & Demobilization			CP - Pipe Jacking Method - Break-
CP20 - ML03 - CN3739 CP - Pipe Jacking Method - Setup & Assembly		CP - Pipe Jacking Method - Setup &/	Assembly
CP19 - ML03 - Ch3641			,
CP - Pipe Jacking Method - Setup & Assembly		CP - Pipe Jacking Method - Setup 8	& Assembly
CP18 - ML03 - Ch3542 CP - Pine Jarking Method - Setup & Assembly		CP. Pipe locking Method Se	tun 8 Accombly
CP17 - ML03 - Ch3444		CF - Pipe Jacking Method - Sei	up & Assembly
CP - Pipe Jacking Method - Setup & Assembly		CP - Pipe Jacking Method	- Setup & Assembly
CP16 - ML03 - Ch3345			
CP - Mipe Jacking Method - Setup & Assembly		CP - Pipe Jacking Met	tnoa - Setup & Assembly
CP - Pipe Jacking Method - Setup & Assembly		CP - Pipe Jackin	g Method - Setup & Assembly
CP14 - ML03 - Ch3148			
CP - Pipe Jacking Method - Setup & Assembly		CP - Pipe Ja	cking Method - Setup & Assembly
CP - Pipe Jacking Method - Setup & Assembly		CP - Pir	pe Jacking Method - Setup & Assembly
CP12 - ML03 - Ch2951			
CP - Pipe Jacking Method - Setup & Assembly		C	P - Pipe Jacking Method - Setup & Assembly
CP - Pipe Jacking Method - Setup & Assembly			CP - Pipe Jacking Method - Setup & Assembly
Sub-sea TBM Tunnel - NB - Remaining Internal Structure			
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP48	P48		
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP46	Completion to CP46		
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP45	h - Completion to CP45		
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP44	Cable Trough - Completion to CP44		
NB - Sub-sea TBM lunnel - Corbel & Cable Trough - Completion to CP43	el & Cable Trough - Completion to CP43		
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP41	A Tunnel - Corbel & Cable Trough - Completion to CP41		
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP40	Sub-sea TBM Tunnel - Corbel & Cable Trough - Completior	i to <mark>C</mark> P40	
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP39	B - Sub-sea TBM Tunnel - Corbel & Cable Trqugh - Comple	tion to CP39	
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP38	NB - Sub-sea TBM Tunnel - Corbel & Cable Troug	n - Completion to CP38	
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP36	NB - Sub-sea TBM Tunnel - Corbe	& Cable Trough - Completion to CP36	
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP35	NB - Sub-sea TBM Tunnel - Co	rbel & Cable Trough - Completion to CP35	
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP34	NB - Sub-sea TBM Tu	nnel - Corbel & Cable Trough - Completion to	> CP34
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP33	NB - Sub-sea TBM	Sub-sea TBM Tunnel - Corbel & Cable Troug	ah - Completion to CP32
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP31		IB - Sub-sea TBM Tunnel - Corbel & Cable Tr	rough - Completion to CP31
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP30		NB - Sub-sea TBM Tunnel - Corbel	i & Cable Trough - Completion to CP30
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP29		NB - Sub-sea TBM Tunnel - Cor	rbel & Cable Trough - Completion to CP29
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP28		NB - Sub-sea TBM	Tunnel - Corbel & Cable Trough - Completion to CP28
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP26			3 - Sub-sea TBM Tunnel - Corbel & Cable Trough - Comple
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP25			NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Con
NB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP24			NB - Sub-sea TBM Tunnel - Corbel & Cable Tro
NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP23			ты - Sub-sea IBM lunnel - Corbel & Cable
NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP47	onito CP47		
NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP46	- Completion to CP46]	
NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP41	BM Tunnel - OHVD Slab installation - Completion to CP41		
NB - Sub-sea TBM Tunnel - OHVD Stab Instaliation - Completion to CP38	NB - Sub-sea IBM Tunnel - OHVD Slab installa	tallation - Completion to CP38	
NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP36	NB - Sub-sea TBM Tunnel - OH	√D Slab installation - Completion to CP36	
NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP35	NB - Sub-sea TBM Tunnel - C)HVD Slab installation - Completion to CP35	
NB - Sub-sea IBM Tunnel - OHVD Slab installation - Completion to CP34	NB Sub-sea TB	VI Tunnel - OHVD Slab installation - Completion	on to CP34
NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP32		B - Sub-sea TBM Tunnel - OHVD Slab install	ation - Completion to CP32
NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP31		NB - Sub-sea TBM Tunnel - OHVD Slab ins	tallation - Completion to CP31
NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP30		NB - Sub-sea TBM Tunnel - OH	VD Slab installation - Completion to CP30
NB - Sub-sea TBM Tunnel - OHVD Stab Installation - Completion to CP29 NB - Sub-sea TBM Tunnel - OHVD Stab installation - Completion to CP28		NB - Sub-sea TBM Tunnel - (UHVD Slab Installation - Completion to CP29
NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP27		NB - Sub-sea	TBM Tunnel - OHVD \$lab installation - Completion to CP2
NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP26			NB - Sub-sea TBM Turinel - OHVD Slab installation - Com
NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP25		-	NB - Sub-sea TBM Tunnel - OHVD Slab installation - C
		<u></u>	NB - Sub-sea IBM lunnel - OHVD Slab insta
Ige 9 of 12 Planned Bar TMC	CK - Northern Connection Sub-Sea Tunnel Section	on	Date releven Checked Approved 12-Feb-14 TMCLK/DBJGEN/PRG/98507 WYu SPo 08-Apr-14 TMCLK/DBJGEN/PRG/98507 Rev.B SPa WYu
oject ID: TMCLK DWPF 16W25	Detailed Works Programme (Rev. F)	香寶嘉 港賀嘉 Brannan	28-Aug-14 TMCLKDBJGEN/PRG/98507 Rev. C CLa WYu 30-Od:15 TMCLKDBJGEN/PRG/98507 Rev. F WYu
ata Date: 26-Feb-17 Progress bar	Three Months Polling Programme	A member of the Bourgeuse Construction group	
 Progress Milestone 	THEE MONTHS NOTHING FLOGRAMME	Dragages - Bouygues Joint Venture 寶嘉 - 布依格聯營	
	Progress as of 26-Feb-17		

		2016			20 ⁻	17			
		Dec	Jan	Feb	Mar A	Apr	May	Jun	Jul
NB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP23							MB - 9	Sub-sea TBM Tunne	- OHVD Slab ins
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP39		B - Sub-sea TBM	lunnel - Fire Proofing	- Completion to C	P39			1	1
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP38		NB - Sut	-sea TBM Tunnel - Fi	re Proofing - Com	pletion to CP38			1	1
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP37		N B -	sub-sea TBM Tunnel	- Fire Proofing - C	dmpletion to CP37			1	
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP36			NB - Sub-sea	BM Tunnel - Fire	Proofing - Completion to CP36			1	
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP35			NB - Sub	-sea TBM Tunnel	- 'Fire Proofing - Completion to C	CP35			
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP34				B - Sub-sea TBM	Tunnel - Fire Proofing - Complet	tion to CP3	4		
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP33	-			NR Sub coo T	PM Tunnol Fire Proofing Con	mplotion to	- 		
ND - Sub-sea TBM Turnel - Fire Proofing - Completion to CP 35	-		_	IND - Sub-sea I		inpletion to q			
NB - Sub-sea TBM Junnel - Fire Proving - Completion to CP32	_				- Sub-sea IBM lunnel - Fire Pro	ooting - Cor	mpletion to CP32		
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP31					NB - Sub-sea TBM Tunnel - Fire	Proofing -	Completion to CP31		
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP30					NB - Sub-sea TBM T	lunnel - Fire	Proofing - Completi	on to CP30	1
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP29					NB - Sub-sea TBI	M Tunnel -	Fire Proofing - Comp	letion to CP29	
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP28					📮 NB - S	Sub-sea TB	M Tunnel - Fire Proo	fing - Completion to	CP28
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP27					NE	B - Sub-sea	TBM Tunnel - Fire P	roofing - Completior	to CP27
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP26							NB - Sub-sea TBM T	unnel - Fire Proofing	g - Completion to (
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP25						i	NB - Sub-sea TB	M Tunnel - Fire Proc	fing - Completion
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP24							NB - S	b-sea TBM Tunnel	- Fire Proofing - C
NB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP23								- Sub-sea TBM Tun	hel - Fire Proofing
						:			
						:		1	1
Sub-sea TBM Tunnel - SB - Remaining Internal Structure					·				
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP48	:P48								
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP47	to C	P47							
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP46	Com	pletion to CP46							
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP45	jh - C	Completion to CP45	5						
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP44	Cab	le Trough - Compl	etion to CP44						
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP43	el & (Cable Trough - Co	mpletion to CP43						1
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP42	inne	- Corbel & Cable	Trough - Completion t	b CP42				1	
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP41	ИTur	inel - Corbel & Cat	le Trough - Completi	on to CP41					
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP38		SB - Sub-sea	TBM Tunnel - Corbel	& Cable Trough -	Completion to CP38			1	
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP37		SB - Sub-	ea TBM Tunnel - Cor	bel & Cable Troug	h - Completion to CP37				
SB - Sub-soa TBM Tunnol - Corbol & Cable Trough - Completion to CP26		00-000-0		unnal Carbol 8					
SB - Sub-sea TBM Turnel - Corbel & Cable Trough - Completion to CP36	_		SB - Sub-sea TBM I	unnei - Corbei & C	Lable Trougn - Completion to CF	-36			
SB - Sub-sea TBM lunnel - Corbel & Cable Trough - Completion to CP35	_	1	SB - Sub-sea TB	M lunnel - Corbel	& Cable Trough - Completion to	o CP35			
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP34			SB-S	ub-sea TBM Tunn	el - Corbel & Cable Trough - Co	ompletion to	CP34		
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP33			SB	- Sub-sea TBM T	unnel - Corbel & Cable Trough -	- Completio	n to CP33	 	1
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP32				SB - Su	rsea TBM Tunnel - Corbel & Ca	able Trough	- Completion to CP3	2 	
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP31				SB -	Sub-sea TBM Tunnel - Corbel &	Cable Tro	ugh - Completion to 0	Þ31	
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP30					SB - Sub-sea TBM Tunne	el - Corbel &	Cable Trough - Con	hpletion to CP30	
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP29					SB - Sub-sea TBM Tu	nnel - Corb	el & Cable Trough - (completion to CP29	
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP28					SB - Sub-s	sea TBM Tu	nnel - Corbel & Cabl	e Trough - Completi	on to CP28
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP27					SB - SI	ub-sea TBN	Tunnel - Corbel & C	able Trough - Com	letion to CP27
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP26							Sub-sea TBM Tunne	al - Corbel & Cable T	rough - Completic
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP25	-				-		B Sub coo TPM Tu		
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP24									le mough - Comp
SB - Sub-sea TBM Tunnel - Corbel & Cable Trough - Completion to CP24							SB - Sub-se	a IBM lunnel - Cort	bel & Cable Troug
SB - Sub-sea TBM lunnel - Corbel & Cable Trough - Completion to CP23	_						SB - Sub	-sea TBM Tunnel - C '	Corbel & Cable Tro
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP38		SB - Sub-s	ea TBM Tunnel - OH	D Slab installatio	n - Completion to CP38				
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP37		SB - Si	ub-sea TBM Tunnel - (HVD Slab install	ation - Completion to CP37				
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP36			SB - Sub-sea TB	M Tunnel - OHVD	Slab installation - Completion to	CP36			
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP35			SB - Sub-sea	TBM Tunnel - OH	VD Slab installation - Completio	on to CP35			
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP34			SB-	Sub-sea TBM Tu	npel - OHVD Slab installation - C	Completion	to CP34	, , , ,	
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP33				B - Sub-sea TBM	Tunnel - OHVD Slab installation	n - Complet	ion to CP33	- 	1
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP32				SB -	Sub-sea TBM Tunnel - OHVD S	lab installat	tion - Completion to C	P32	
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP31					B - Sub-sea TBM Tunnel - OHVI	D Slah inst	allation - Completion	to CP31	
SB Sub sea TBM Tunnel - OLVD Slab installation - Completion to CP30								borst bempletien to CD20	
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP30	-				SB - Sub-sea TBM IU	nnel - OHV	D Slab Installation - C	ompletion to CP30	
SB - Sub-sea TBM Tunnel - OHVD Stab Installation - Completion to CP29	_				SB - Sub-sea IBM	I lunnel - Q	HVD Slab installation	1 - Completion to CP	29
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP28					SB - Sl	ub-sea TBN	/I Tunnel - OHVD Slal	b installation - Comp	letion to CP28
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP27					SB	- Sub-sea	TBM Tunnel - OHVD	Slab installation - Co	mpletion to CP27
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP26						— s	B - Sub-sea TBM Tu	nnel - OHVD Slab ir	stallation - Compl
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP25							SB - Sub-sea TBN	Tunnel - OHVD Sla	b installation - Co
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP24							SB - Sub	-sea TBM Tunnel - C	ḋHVD Slab installa
SB - Sub-sea TBM Tunnel - OHVD Slab installation - Completion to CP23							SB -	Sub-sea TBM Tunne	d - OHVD Slab in:
SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP39	- 1 - 1 - 1 - 1	SB - Sub-sea TBM	Tunnel - Fire Proofin	a - Completion to (CP39			! ! !	
SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP38		SB - SI	ub-sea TBM Tunnel - I	; Fire Proofing - Cor	moletion to CP38				
SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP37	-		Sub-sea TBM Tuppe	- Fire Proofing	Completion to CP37				
SP - Sub sea TBM Tunnel - Fire Proofing - Completion to CP26	-	36		TDM Turnel Fire	Drasfing Completion to CD26				
SB - Sub-sea TBM Turnel - Fire Prester, Completion to CP25	-		SB - Sub-sea					- 	
SB - Sub-sea TBM lunnel - Fire Proofing - Completion to CP35				sea IBM lunnel	- Fire Proofing - Completion to C	JP35			
SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP34	_		SI SI	3 - Sub-sea TBM	Iunnel - Fire Proofing - Completi	tion to CP34	ŀ	1	1
SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP33				SB - Sub-sea T	BM Tunnel - Fire Proofing - Con	npletion to (CP33	1	
SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP32				SB	+ Sub-sea TBM Tunnel - Fire Pr	roofing - Co	mpletion to CP32	1	1
SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP31				\	SB - Sub-sea TBM Tunnel - Fir	re Proofing	- Completion to CP3		
SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CP30					SB - Sub-sea TBM	l Tunnel - Fir	re Proofing - Comple	tion to CP30	
SB - Sub-sea TBM Tunnel - Fire Proofing - Completion to CD20	1-1-					DNAT	En Dracker O		



ny Name		2016				2017			
		Dec	Jan	Feb	Mar	Apr	May	Jun	Jul
Review & Comment by JV									
Designer prepare DDA									
Formal Submission of DDA to ICE/ IPs									1
Advanced Submission to SO	H								
IPs/SO'sAdvance Comments/ICE Comments									
Comments Received									1
Designer to Reply RtC + Update Submission									
Submit Updated DDA to SO/ ICE/ IPs									
ICE Approval & Issue Check Cert									,
IPs Review									
SO's Review									
Method Statement Submission									1
Method Statement Submission									
Brangration Method Statement for C&C Tunnels									· · · · · · · · · · · · · · · · · · ·
SO Reviews & Comments									1
Re-submission									
SO's Review									
Construction									
C&C Tunnel - 4th 85m - Tunnel Structure		C&C Tunr	el - 4th 85m - Tunne	Structure					
C&C Tunnel - 4th 85m - B ackfilling			C&C Tunnel - 4th 8	5m - Backfilling					1
C&C Tunnel - 5th 85m - Tunnel Structure				&C Tunnel - 5th 8	5m - Tunnel Structure				
C&C Tunnel - 5th 85m - B ackfilling					&C Tunnel - 5th 85m -	Backfilling			
C&C Tunnel - 6th 85m - Tunnel Structure	Ī				C&C Tunne	el - 6th 85m - Tunnel	Structure		
C&C Tunnel - 6th 85m - B ackfilling						C&C Tunnel	- 6th 85m - Backfilling	9	
C&C Tunnel - 7th 67m - E xcavation by vertical mean			C&C Tunne	l - 7th 67m - Exca	vation by vertical mea	h			1
C&C Tunnel - 7th 67m - Tunnel Structure						C&C	Tunnel - 7th 67m - T	unnel Structure	
C&C Tunnel - 7th 67m - Backfilling								C&C Tunnel - 7th	¦ 67m - Backfilling
C&C Tunnel - 8th 85m - Exception by vertical mean					C ^Q C Tuppel 9th 95n	Execution by yes	tical maan		
					Cac furnier - 8th 85h	I-Excavation by ver	licalmean		
									lunnei - atn asm
					1				Interr
South Retrieval Shaft									1
Design Submission (E4) Contra Orang Super art/Equivalentians in Couthern Londfall									
(F4) Gantry Crane Support/Foundations in Southern Landfall									
	-								
Submit Updated IFA to SO/ ICE/ IPs	-								
ICE Approval & Issue Check Cert									
IPs Review									
IP's No Objection Received	E								
SO's Review									-
SO Approval with Condition Received									
Method Statement Submission									
Method Statement of Construction Methodology of Retrieval Shaft									
Preparation Method Statement for Retrieval Shaft									
Submit Method Statement to SO									
SO Reviews & Comments									
Re-submission									
SO's Review									
Construction									
South Retrieval Shaft - Diaphraom Wall	H								
Betrieval Shaft - Temp Slab/Prepare for TBM Breakthrough	H	Retrieval Shoft Tor	n Slah/Propose for	BMBrookthrough	2				
South Approach Ramp		neureval Shalt - Ien	p. Slab/Frepare for	Divi Dreaktrirougi	1				
Approach Ramp (CH1580, 1850) - Pina Dila/Shaat Dilao Wall									
Appoach Ramp (CH1580-1850) - Iension Piles	-								
Appoach Ramp (CH1580-1800) - Excavation,						Appoach I	Ramp (CH1580-1800) - Excavation,	
Remaining Approach Tunnel Structure							1		,
South Ventilation Building									
Design Submission									
(I1) DDA for South Vent.Bldg. GBP & Arch.Submission									1
IPs Review									
IP's No Objection Received	Ħ								
SO's Review									
SOApproval with Condition Received	E								
(I2) DDA for South Vent.Bldg. Foundation Design									
Review & Comment by JV									
Designer prepare DDA									1 1 1
Formal Submission of DDA to ICE/ IPs	Η								
Advanced Submission to SO	- 1								
IPs/SO'sAdvance Comments/ICE Comments									
Comments Received									
	H				1				

S					
		Date	Revision	Checked	Approved
LK - Northern Connection Sub-Sea Tunnel Section		12-Feb-14 TMCLK/D	BJGEN/PRG/98507 W	VYu	SPo
		28-Aug-14 TMCLKD	BJGEN/PRG/98507 Rev.C C	ora CLa	WYu WYu
Detailed Works Programme (Rev. F)	「「」」 「「」」 「「」」 「」」 「」 「」」 「」」 「」」 「」」	30-Od-15 TMCLK/D	BJGEN/PRG/98507 Rev. F W	VYu	
	Dragages BOUYGUES				
	HongKong				
Three Months Rolling Programme	A member of the Bouygues Construction group				
	areagagae accygoes some remote acam renordiana				
Progress as of 26-Feb-17					
s 	K - Northern Connection Sub-Sea Tunnel Section Detailed Works Programme (Rev. F) Three Months Rolling Programme Progress as of 26-Feb-17	K - Northern Connection Sub-Sea Tunnel Section Detailed Works Programme (Rev. F) Three Months Rolling Programme Progress as of 26-Feb-17	K - Northern Connection Sub-Sea Tunnel Section Detailed Works Programme (Rev. F) Three Months Rolling Programme Progress as of 26-Feb-17 Detailed Works Programme Progress as of 26-Feb-17	K - Northern Connection Sub-Sea Tunnel Section Detailed Works Programme (Rev. F) Three Months Rolling Programme Progress as of 26-Feb-17	K - Northern Connection Sub-Sea Tunnel Section Detailed Works Programme (Rev. F) Three Months Rolling Programme Progress as of 26-Feb-17

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	Designers to Dearly Diffy a Underty Outpringing		Dec	Jan	Feb	Mar	Apr	May	Jun	Jul
									1 1 1	
	ICE Approval & Issue Check Cert								1	
	IPs Review								1 1	1
	SO's Review							1	1	
	(J1) DDA Temp.works for Construction of Sth.Vent.Bldg.									
	Designer to Reply RtC + Update Submission							1 1 1	1 1 1	
	Submit Updated DDA to SO/ ICE/ IPs							1	1	
	ICE Approval & Issue Check Cert								1 1 1	
	Submit ICE Check Cert to SO							1	1	
	IPs Review							J	! ! !	
	IP's No Objection Received							1	1 1	
	SO's Review								1 1 1	
	SO Approval with Condition Received								1 1	1
	Construction									
ſ	Mobilization & Setting Up Piling Rigs						 	I I I	 	1
	S -Sheet Piling								1	
	Substructure			Substructure					, , ,	
	Superstructure					Sup	perstructure		1	
	Finishing Works								, 	
	South Surface Roadworks, Utility & Drainage works							1	 	
	Design Submission						 	1 1	1 1	
	(E1) AIP - Southern Landfall Seawall Modification			D	at					
	Designer Prepare AIP - Southern Landtall Seawall Modification		Desig	ner Prepare AIP - Sc	uthern Landfall S	eawall Modification			, 	
				Heview & Com	nent by JV					
	Formal Submission of ALP to IOE //Do			Designer	prepare AIP		 	1 1	1 1	
				 Formal Su 	Submission of AIP to					
	Review & Comment by SO/ICE/IPe			Advanced	Submission of A I	Commont has DO (107	- I I Pe	1 1	 	
	Advance Commants from SO/ Commants from ICE/ IPs Bossived					Commante from SO/ ICE		Ps Baceived		
	Designer to Prepare RIC & Undated AIP					Designer to Prov	bare BtC & Lindated		 	
	Submisson of AIP to SO/ ICE together with Reply To Comment (RTC)						P to SO/ ICE together	with Benly To Comm	ent (BTC)	
	Reply to IPs Comments in RTC					Reply to IPs Con	ments in RTC			
	ICE Approval & Issue of Design Check Cert.						E Approval & Issue o	l Desian Check Cert		
	Check Cert to SO						heck Cert to SO		1 1	
	No Objection or Further Minor Comments from IPs Received					◆ No	Objection or Furthe	Minor Comments fro	m IPs Received	
	SO Review (35 Days)					•	SO Review (35 Davs)		
	SO Approval with Condition Received						SO Approval	with Condition Recei	ved	
	(E1) DDA - Southern Landfall Seawall Modification						•			
	Preparation of DDA Modification of Seawall at Sth Landfall							Preparation of D	DA Modification of S	e awall at Sth Land
	Review & Comment by JV						- <u>-</u>	R	view & Comment by	JV
	Designer prepare DDA								Designer pre	pare DDA
	IPs Review									
	IP's No Objection Received								1	
	SO's Review									
	SO Approval with Condition Received								 	1
	(E3) DDA for Sewerage, Drainage, Waterworks & Utility works for	South Landf							, , ,	
	IPs Review									
	IP's No Objection Received								 	
	SO's Review					· ·	· · ·	, , ,	 	, , ,
	SO Approval with Condition Received							1 1 1	 	
ſ	Method Statement Submission	r Southorn I a							1 1 1	
	Preparation Method Statement for Ground Improvement in South Landfall								1	
	Submit Method Statement to SO								, 1 1	
	SO Reviews & Comments								, ,	
	Re-submission							1	1 1	
	SO's Review								, 	
	SO's Approval									
	Construction								 	
	Temporary Platform for Ground Treatment for TBM passing under Southern Seawall									
	Grouting Treatment for TBM passing under Southern Seawall		Grouting Treatment fo	r TBM passing under	Southern Seawa	B			 	
	Testing & Commissioning/Inspection & Handover									
	Final Inspection & Handover								, , ,	
	Design Submission						 	' ' !	' ' !	
	(A12) Maintenance Matrix									
	r repare He-submission								1 	
								1	1	
	(A12) Operation 2 Meintersone Menual							1 1 1	1 1 1	
	Preparation of Operation and Maintenance Manual						 	 	 	
	1st Submission							1 1 1	1 	
	SO's Comments for 1st Submission							1 1 1		
	Prepare Re-submission								1 	
	(A14) As-built & As-fabricated Drawings									
	Preparation of As-built and As-fabricated Drawings						 	; ; ;	1	;
	1st Submission									
	SO's Comments for 1st Submission						 	1 1	1 1	
	(A15) Health & Safety File incl.As-built Dwgs & Records, Maintena	ance Schedul								
	Preparation of Health and Safety File including as-built drawings and records, maintena	ance schedules, or						1 1 1	1 	
	1 of Submission							1 1 1	 ' '	
	I St Submission		1	1					, 1 1	
	SO's Comments for 1st Submission					1		I	I	
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Page	12 of 12 Planned Bar T	MCLK - North	hern Connectior	n Sub-Sea Tur	nel Section		•	Date 12-Feb-14 TMCLKDB 08-Apr-14 TMCLKDB 28-Auc-14 TMCLKDB	Revision Chi IGEN/PRG/98507 WYu IGEN/PRG/98507 Rev. В SPa (GEN/PRG/98507 Rev. С С л	eded Approved SPo WYu WYu
Page	12 of 12 Ct ID: TMCLK DWPF 16W25	MCLK - Norti Detai	hern Connection	n Sub-Sea Tur ramme (Rev.	nel Section	香寶嘉		Date 12.Feb-14 TMCLKDB 08-Apr.14 TMCLKDB 28-Aug-14 TMCLKDB 30-Oct-15 TMCLKDB	Revision Ch IGEN/PRG.98507 WYu IGEN/PRG.98507 Rev. B IGEN/PRG.98507 Rev. C IGEN/PRG.98507 Rev. F WYu	eded Approved SPo WYu WYu
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Progress as of 26-Feb-17





Annex C

Location Map



Annex D

Site Drainage Plan



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Annex E

Marine Travel Route Record

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

Records of Off-site Marine Vessel Routing – March 2017



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

Records of Off-site Marine Vessel Routing – March 2017



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

Records of Off-site Marine Vessel Routing – March 2017



Annex F

Wetsep Record

	Theorem Andrews Revenues and Andrews	Contract No. HY/2012/08 Tuen Mun – Chek Lap Kok Link Northern Connection Sub-sea Tunnel Section			WETSEP Checking Record 污水處理機檢查記錄					
N	WETSEP Location 污水處思 Date 日期:	1機位置:	25	7						
P	1. WETSEP In Normal	Monday 星期一	<u>Tuesday</u> 星期二	to 至 _ Z Wednesday 星期三	6·3·20 Thursday 星期四	Friday 鼻期五	<u>Saturday</u> 展期六	<u>Sunday</u> 尾胡日		
P	Coperation? 處理機是否正常運作 2. pH Value	R V	/	\checkmark	/	/	and a	/		
M		8.6	8-6	8-7	8-6	7.8	7.6	7.9		
	電力供應正常? Outlet Abnormal? (Any Sludge? Any Colour				/	/	1	1		
	 Change? Flowrate?) 出水口有否異常? (污泥孔 否積聚? 顏色有否改變? ; 量有否異常?) 	町大東学	有異常	太黑 命	古采华	魚	15	Kan		
	Potion Enough? 藥水是否足夠?			1	1			1		
6.	Tank? 有否清理隔沙缸?	有 09:00	病のなの	to loo	1/208:00	1/2	R	1		
7.	Clean the De-silt Basin? 有否清理蓄泥池?	なの:30	ta 09:50	\$ 09:30	1/2 29:3		F	11		
8.	Are the Cleansing Records of Sedimentation Tank/ De-silt Basin Stored Properly? 濟理蓄泥池記錄是否妥善 儲存?		~	/	1					
9.	Others 其他情況	-切跸-	物理节	切玉常	物建	3 /	///	/		
Fc 地盤	Verified by Site preman/Supervisor 管工/監督簽署確認	浙东	酒	T	XA	2 -	1-	1		

Remarks:

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

(1) 請將記錄妥善保存, 並每月將記錄交回環保部。



TICK (V) in the box if the condition is normal.
 *若情況正常,請於方格內加上夠號(V)
 *若情況不尋常,請於方格內加上交叉(X),並寫下不尋常狀況。

Remarks:

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

(1) 請將記錄妥善保存,並每月將記錄交回環保部。