

Lam Geotechnics Limited

Contract No. HK/2015/01 Wanchai Development Phase II and Central Wanchai Bypass Sampling, Field Measurement and testing Works (Stage 3) Quarterly EM&A Report (March 2017 – May 2017)

CONTRACT NO: HK/2015/01

WANCHAI DEVELOPMENT PHASE II AND CENTRAL WANCHAI BYPASS SAMPLING, FIELD MEASUREMENT AND TESTING WORK (STAGE 3)

ENVIRONMENTAL PERMIT NO. EP-356/2009, FURTHER EVIRONMENTAL PERMIT NOS. FEP-02/356/2009, FEP-03/356/2009, FEP-04/356/2009 FEP-06/356/2009, FEP-07/356/2009 AND FEP-08/356/2009

> QUARTERLY ENVIRONMENTAL MONITORING AND AUDIT REPORT

> > - MARCH 2017 TO MAY 2017 -

CLIENTS:

Civil Engineering and Development Department

and

Highways Department

PREPARED BY:

Lam Geotechnics Limited

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CHECKED BY:

Raymond Dai Environmental Team Leader

DATE:

24 June 2017



Ref.: AACWBIECEM00_0_9492L.17

28 June 2017

By Post and Fax (2691 2649)

AECOM Asia Company Limited Engineer's Representative's Office 25 Hung Hing Road, Causeway Bay, Hong Kong

Attention: Mr. Peter Poon

Dear Sirs,

Re: Contract No. HK/2015/01 Wan Chai Development Phase II - Central-Wan Chai Bypass Sampling, Field Measurement and Testing Works (Stage 3)

Quarterly EM&A Report (March to May 2017) for EP-356/2009, FEP-02/356/2009. FEP-03/356/2009, FEP-04/356/2009, FEP-06/356/2009, FEP-07/356/2009 and FEP-08/356/2009

Reference is made to the Environmental Team's submission of the captioned Quarterly Environmental Monitoring and Audit (EM&A) Report for March to May 2017 received by e-mail on 24 June 2017.

Please be informed that we have no adverse comment on the captioned submission and thereby write to verify the captioned submission.

Thank you very much for your kind attention and please do not hesitate to contact the undersigned should you have any queries.

Yours sincerely,

David Yeung Independent Environmental Checker

Encl. Q:\Projects\AACWBIECEM00\Corr\AACWBIECEM00_0_9492L.17.docx

Ramboll Environ Hong Kong Limited 英環香港有限公司 21/F, BEA Harbour View Centre, 56 Gloucester Road, Wan Chai, Hong Kong Tel: 852.3465 2888 Fax: 852.3465 2899 www.Ramboll-Environ.com

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June 2017



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EXECUTIVE SUMMARY

i. This is the Quarterly Environmental Monitoring and Audit (EM&A) Report – March 2017 to May 2017 prepared for the Project of Wan Chai Development Phase II and Central-Wanchai Bypass under Environmental Permit no. EP-356/2009 and Further Environmental permit nos. FEP-02/356/2009, FEP-03/356/2009, FEP-04/356/2009, FEP-06/356/2009 and FEP-07/356/2009. This report presents the environmental monitoring and audit findings and information during the period from 27th February 2017 to 26th May 2017. The cut-off date of reporting is at 26th of each reporting period.

Construction Activities for the Reported Period

ii. Contract no HK/2009/01 was commenced on 23 July 2010. During this reporting period, the principal work activities for Contract no. HK/2009/01 are summarized as below:

Table I Principal Work Activities for Contract no. HK/2009/01

ſ	March 2017	April 2017	May 2017
Ī	• Nil	• Nil	• Nil

iii. Contract no. HK/2009/02 was commenced on 5 July 2010. During this reporting period, the principal work activities for Contract no. HK/2009/02 are summarized as below:

Table II Principal Work Activities for Contract no. HK/2009/02

March 2017	April 2017	May 2017
• Nil	• Nil	• Nil

iv. Contract no. HY/2009/15 was commenced on 10 November 2010. During this reporting period, the principal work activities for Contract no. HY/2009/15 are summarized as below:

Table III Principal Work Activities for Contract no. HY/2009/15

	March 2017	April 2017	May 2017
•	Reinstate the seawall of	• Nil	• Nil
	Eastern Breakwater		

v. Contract no. HY/2009/19 was commenced on 24 March 2011. During this reporting period, the principal work activities for Contract no. HY/2009/19 are summarized as below:

Table IV Principal Work Activities for Contract no. HY/2009/19

March 2017	April 2017	May 2017
• Nil	• Nil	• Nil

vi. Contract no. HK/2012/08 was commenced on 5 March 2013. During this reporting period, the principal work activities for Contract no. HK/2012/08 are summarized as below:



Table V Principal Work Activities for Contract no. HK/2012/08

ſ	March 2017	April 2017	May 2017
ſ	 Installation of Box 1 unit 	 Installation of Box 1 unit 	Construction of Box 1
	Construction of culvert L Bay 8	Construction of culvert L Bay 8	unit

vii. Contract no. HY/2010/08 was commenced on 21 March 2013. During this reporting period, the principal work activities for Contract no. HY/2010/08 are summarized as below:

Table VI Principal Work Activities for Contract no. HY/2010/08

March 2017	April 2017	May 2017	
Diversion pipe maintenance	Diversion pipe maintenance	Diversion pipe maintenance	
Preparation for Diaphragm	 Preparation for Diaphragm 	 Preparation for Diaphragm 	
Wall Removal Works	Wall Removal Works	Wall Removal Works	
Removal of reclamation at	 Removal of reclamation at 	 Removal of reclamation at 	
TS3W	TS3W	TS3W	

Noise Monitoring

- With respect to the shift in major construction site portions at Wan Chai North, the noise monitoring station M1a – Harbour Sports Centre was finely adjusted from East of Harbour Road Sports Centre to West of Harbour Road Sports Centre on 21 June 2016.
- ix. Noise monitoring during day time and evening time were conducted at the M1a, M2b, M3a, M4b, M5b and M6 on a weekly basis in the reporting period. The Action and Limit level exceedances recorded in the reporting period are listed below. Investigation found that exceedances were not related to the Project. Investigation found that exceedances were not related to the Project.
- With respect to the demolition of Ex-Harbour Road Sports Centre, the respective noise monitoring station M1a – Harbour Road Sports Centre were finely adjusted on 16 and 25 May 2017 and thereafter to the Footbridge at Harbour Road Sports Centre for noise monitoring.
- School examination was scheduled to be taken place at Henrietta Secondary School on 3, 10, 25 and 26 April 2017, the limit level of noise monitoring at station M6 was adjusted to 65dB(A) during examination period accordingly.
- iii. No action or limit level exceedance was recorded in March reporting month.
- iv. Three limit level exceedances were recorded at M6 HK Baptist Church Henrietta Secondary School on 03, 10 and 26 April 2017 in April reporting month. The exceedances were concluded as non-Project related.
- v. One limit level exceedance was recorded at M5b City Garden on 18 April 2017 in April reporting month. The exceedance was concluded as Project related.
 Two limit level exceedances were recorded at M1a Footbridge at Ex-Harbour Road Sports Centre on 16 and 25 May 2017 in May reporting month. The exceedances were concluded as non-Project related.

Air Quality Monitoring

vi. Due to interruption of electricity supply, the 24hr TSP was rescheduled as follows: 24 TSP monitoring at CMA3a was rescheduled from 06 April 2017 to 07 April 2017



24 TSP monitoring at CMA4a was rescheduled from 06 and 28 April 2017 to 07 and 29 April 2017 respectively

24 TSP monitoring at CMA6a was rescheduled from 12 and 18 April 2017 to 13 and 19 April 2017 respectively

24 TSP monitoring at CMA5b was rescheduled from 16 May 2017 to 13 and 17 May 2017

- vii. One 24hr TSP limit level exceedance was recorded at CMA5b Pedestrian Plaza on 2 March 2017 in March reporting month. The exceedance was concluded to be non-Project related.
- viii. Two 1hr TSP action level and one 1hr limit level exceedances were recorded at CMA5b Pedestrian Plaza on 3 March 2017 in March reporting month. The exceedances were concluded to be non-Project related.
- ix. One 1hr TSP limit level exceedance was recorded at CMA4a –Society for the Prevention of Cruelty to Animals on 3 March 2017 in March reporting month. The exceedance was concluded to be non-Project related.
- x. One 1hr TSP limit level exceedance was recorded at CMA1b Oil Street Site Office on 27 March 2017 in March reporting month. The exceedance concluded to be non-Project related.

xi. No action or limit level exceedance was recorded in April reporting month.

xii. No action or limit level exceedance was recorded in May reporting month.

- xiii. With respect to the proposed demolition of eastern podium of Oil Street Site Office, the respective air quality monitoring station CMA1b – Oil Street Site Office was finely adjusted from East podium of the Oil Street Site Office to the West podium of the Oil Street Site Office on 21 December 2016
- xiv. The location ID of air monitoring station CMA1b was updated as Oil Street Site Office in April 2013.
- xv. With respect to the area handover, the air quality monitoring station CMA5a at Children Playgrounds opposite to the Pedestrian Plaza was relocated to the Pedestrian Plaza on 3 December 2014. The station reference and location ID of the air quality monitoring station CMA5a was updated as CMA5b and Pedestrian Plaza respectively.
- xvi. 1hr and 24hr TSP monitoring were conducted at CMA1b, CMA2a, CMA3a, CMA4a, CMA5b and CMA6a in the reporting period.

Water Quality Monitoring

- xvii. Due to the hoisting of amber rainstorm warning signal, the scheduled water quality monitoring event on 24 May 2017 during both ebb and flood tide were cancelled.
- xviii. Action and Limit level of water quality monitoring was transited from dry season to wet season from 1 April 2017.
- xix. Referring to CWB RSS confirmation on the completion of marine construction activities within the Ex-PCWA area and the completion of the post construction water quality monitoring, the respective Enhance DO Monitoring within Ex-PCWA for monitoring station Ex-PCWA SE and Ex-PCWA SW was temporarily suspended since 07 March 2017 ebb tide onwards.
- xx. With respect to the reinstatement of the silt screen system for Cooling Water Intakes P7, P8, P9 and WSD Water Intake RW21, the respective water quality monitoring was reverted to the previous monitoring location for Water Quality Monitoring Station RW21-P789 from water quality stations RW21-P789 East (RW21-P789E) and RW21-P789 West (RW21-P789W) from 25 January 2017 onwards.



- with respect to the removal of silt screen at WQM station RW21-P789 on 26 November 2016, the respective water quality monitoring at RW21-P789 was adjusted to RW21-P789E and RW21-P789W since 28 November 2016 ebb-tide.
- xxii. With respect to the temporarily suspension of marine construction works at WCR3 Area by Contract HK/2009/02, the installed silt screen for intake group (P7, P8, P9 and WSD21) was removed on 26 November 2016.
- xxiii. As advised by the Contractor of HK/2009/01, all silt screen remains removal works at P1, P3, P4, P5 and C1 water quality monitoring stations were completed on 8 May 2016.
- xxiv. With respect to the marine works undertaken at WCR3 by Contract HK/2009/02, the respective water quality monitoring station C1 associated with Contract HK/2009/01 was updated as in association with Contract HK/2009/01 and Contract HK/2009/02.
- xxv. With respect to the marine works undertaken at CBTS by Contract HY/2010/08, the respective water quality monitoring station C7 associated with Contract HY/2009/15 was updated as in association with Contract HY/2009/15 and Contract HY/2010/08.
- xxvi. With respect to the marine works undertaken at HKCEC2 by Contract HK/2012/08, the respective water quality monitoring station WSD19, P1, P3, P4, and P5 were associated with Contract HK/2012/08.
- xxvii. There were 1 action level of turbidity exceedances and 2 limit level of suspended solid exceedances recorded in March reporting month. Investigation found that the 1 action level of turbidity and 1 limit level of suspended solid exceedances recorded at monitoring station P1 on 15 March 2017 in March reporting month were concluded as related to Project works. Investigation found that 1 limit level of suspended solid exceedance at monitoring station WSD19 recorded in March reporting month was not related to Project works
- xxviii. No action or limit level exceedance was recorded in April reporting month.
- xxix. There were two limit level of turbidity exceedances and one limit level of suspended solid exceedance were recorded in May reporting month. Investigation found that the turbidity and suspended solid exceedances were not related to Project works.
- xxx. Enhanced DO monitoring at 3 monitoring stations in Causeway Bay Typhoon Shelter and Ex-Public Cargo Works Area was conducted three days per week during the reporting period.
- xxxi. There was no action and limit level exceedance recorded for enhanced dissolved oxygen monitoring in this reporting quarter.

Complaints, Notifications of Summons and Successful Prosecutions

xxxii. No environmental complaint was received in this reporting quarter.



1. INTRODUCTION

1.1 Scope of the Report

- 1.1.1. Lam Geotechnics Limited (LGL) has been appointed to work as the Environmental Team (ET) under Environmental Permit no. EP-356/2009 and Further Environmental permit nos. FEP-02/356/2009, FEP-03/356/2009, FEP-04/356/2009, FEP-06/356/2009, FEP-07/356/2009 and FEP-08/356/2009 to implement the Environmental Monitoring and Audit (EM&A) programme as stipulated in the EM&A Manual of the approved Environmental Impact Assessment (EIA) Report for Wan Chai Development phase II and Central-Wan Chai Bypass (Register No.: AEIAR-125/2008) and in the EM&A Manual of the approved EIA Report for Central-Wan Chai Bypass and Island Eastern Corridor Link (Register No. AEIAR-041/2001).
- 1.1.2. This report presents the environmental monitoring and auditing work carried out in accordance to the Section 10.4 of EM&A Manual and "*Environmental Monitoring and Audit Requirements*" under Particular Specification Section 27.
- **1.1.3.** This report documents the finding of EM&A works during the period from 27th February 2017 to 26th May 2017.

1.2 Structure of the Report

- **Section 1** *Introduction* details the scope and structure of the report.
- Section 2 *Project Background* summarizes background and scope of the project, site description, project organization and contact details of key personnel during the reporting period.
- Section 3 *Monitoring Requirements* summarizes all monitoring parameters, monitoring locations, monitoring frequency, duration and action plan.
- Section 4 *Monitoring Results* summarizes the monitoring results obtained in the reporting period.
- Section 5 Compliance Audit summarizes the auditing of monitoring results, all exceedances environmental parameters.
- Section 6 Complaints, Notification of summons and Prosecution summarizes the cumulative statistics on complaints, notification of summons and prosecution
- Section 7 Cumulative Construction Impact due to the Concurrent Projects summarizes the relevant cumulative construction impact due to the concurrent activities of the concurrent Projects.

Section 8 Conclusion

8



2. PROJECT BACKGROUND

2.1 Background

- 2.1.1. "Wan Chai Development phase II and Central-Wan Chai Bypass" and "Central-Wan Chai Bypass and Island Eastern Corridor Link" (hereafter called "the Project") are Designed Project (DP) under the Environmental Impact Assessment Ordinance (Cap. 499) (EIAO). The Environmental Impact Assessment (EIA) Reports for Central-Wan Chai Bypass and Island Eastern Corridor Link (Register No. AEIAR-041/2001) and Wan Chai Development phase II and Central-Wan Chai Bypass (Register No.: AEIAR-125/2008) have been approved on 31 August 2001 and 11 December 2008 respectively.
- 2.1.2. The key purpose of Wan Chai Development Phase II (WDII) is to provide land at Wan Chai North and North Point for construction of the Central-Wan Chai Bypass and Island Eastern Corridor Link (CWB). Land formed under the project will be developed as a world-class waterfront promenade joining that at the new Central waterfront for public enjoyment.
- 2.1.3. There is a compelling and present need for the CWB to provide relief to the very congested east-west Connaught Road Central/Harcourt Road / Gloucester Road Corridor (the Corridor) which is currently operating beyond its capacity. The CWB will provide relief to the existing congestion along the Corridor and cater for the anticipated growth of traffic on Hong Kong Island. Without the CWB and its access roads, there will not be sufficient capacity to serve the heavy traffic demands at both strategic and local levels.

2.2 Scope of the Project and Site Description

- 2.2.1. The Project is located mainly in Wan Chai North, Causeway Bay and North Point, and is demarcated by Gloucester Road and Victoria Park Road to the south, Fenwick Pier Street to the west and Tong Shui Road Interchange to the east, as shown in *Figure 2.1*.
- 2.2.2. The study area encompasses existing developments along the Wan Chai, Causeway Bay and North Point shorelines. Major land uses include the Hong Kong Convention & Exhibition Centre (HKCEC) Extension, the Wan Chai Ferry Pier, the ex-Wan Chai Public Cargo Working Area (ex-PCWA), the Royal Hong Kong Yacht Club (RHKYC), the Police Officers' Club, the Causeway Bay Typhoon Shelter (CBTS) and commercial and residential developments.
- 2.2.3. The scope of the Project comprises:
 - Land formation for key transport infrastructure and facilities, including the Trunk Road (i.e. CWB) and the associated slip roads for connection to the Trunk Road and for through traffic from Central to Wan Chai and Causeway Bay. The land formed for the above transport infrastructure will provide opportunities for the development of an attractive waterfront promenade for the enjoyment of the public
 - Reprovisioning / protection of the existing facilities and structures affected by the land formation works mentioned above



- Extension, modification, reprovisioning or protection of existing storm water drainage outfalls, sewerage outfalls and watermains affected by the revised land use and land formation works mentioned above
- Upgrading of hinterland storm water drainage system and sewerage system, which would be rendered insufficient by the land formation works mentioned above
- Provision of the ground level roads, flyovers, footbridges, necessary transport facilities and the associated utility services
- Construction of the new waterfront promenade, landscape works and the associated utility services
- The Trunk Road (i.e. CWB) within the study area and the associated slip roads for connection to the Trunk Road.
- 2.2.4. The project also contains various Schedule 2 DPs that, under the EIAO, require Environmental Permits (EPs) to be granted by the DEP before they may be either constructed or operated. *Table 2.1* summarises the five individual DPs under this Project. *Figure 2.1* shows the locations of these Schedule 2 DPs.

Tuble 2.	Table 2.1 Schedule 2 Designated Flojects under this Floject				
ltem	Designated Project	EIAO Reference	Reason for inclusion		
DP1	Central-Wanchai Bypass (CWB) including its road tunnel and slip roads	Schedule 2, Part I, A.1 and A.7	Trunk road and road tunnel more than 800 m in length		
DP2	Road P2 and other roads which are classified as primary/district distributor roads	Schedule 2, Part I, A.1	Primary / district distributor roads		
DP3	Reclamation works including associated dredging works	Schedule 2, Part I, C.1 and C.12	Reclamation more than 5 ha in size and a dredging operation less than 100 m from a seawater intake point		
DP5	Wan Chai East Sewage Outfall	Schedule 2, Part I, F.5 and F.6	Submarine sewage pipelines with a total diameter more than 1,200 mm and include a submarine sewage outfall		
DP6	Dredging for the Cross- harbour Water Mains from Wan Chai to Tsim Sha Tsui	Schedule 2, Part I, C.12	A dredging operation less than 100 m from a seawater intake point		

 Table 2.1
 Schedule 2 Designated Projects under this Project

2.3 Division of the Project Responsibility

2.3.1 Due to the multi-contract nature of the Project, the status of permits and/or licences under the individual contract(s) are presented as below:

<u>Contract no. HK/2010/06 – Wan Chai Development Phase II – Central – Wan Chai Bypass</u> over MTR Tsuen Wan Line under FEP-05/356/2009

2.3.2 The construction works were completed and the FEP-05/356/2009 was surrendered by the Contractor on 3 October 2014.



<u>Contract no. HY/2009/11 – Wan Chai Development Phase II – Central – Wan Chai Bypass -</u> North Point Reclamation

- 2.3.3 The construction works were completed and the FEP-01/356/2009 was surrendered by the Contractor on 22 October 2012.
- 2.3.4 Due to the multi-contract nature of the Project, there are a number of contracts sub-dividing the whole works area into different work areas to be commenced. Contractors of individual contracts will be required by the EP holder to apply Further Environmental Permits (FEP) such that the impact monitoring stations are sub-divided accordingly to facilitate the implementation of EM&A programme and to streamline the EM&A reporting for individual FEP holders correspondingly.
- 2.3.5 The details of individual contracts are summarized in *Table2.2*.

Contract No.	Contract Title	Associated DP(s)	Construction Commencement Date
HK/2009/01	HK/2009/01 Wan Chai Development Phase II – Central –Wanchai Bypass at Hong Kong		23 July 2010
	Convention and Exhibition Centre	DP1, DP2	25 August 2011
HK/2009/02	Wan Chai Development Phase II – Central – Wan Chai Bypass at WanChai	DP3, DP5	5 July 2010
	East	DP1	26 April 2011
HY/2009/11	Wan Chai Development Phase II and Central – Wan Chai Bypass – North	DP3	17 March 2010
	Point Reclamation	DF3	(Completed)
HY/2009/15	Central-Wanchai Bypass – Tunnel (Causeway Bay Typhoon Shelter	DP3	10 November 2010
	Section)	DP1	13 July 2011
HK/2010/06	Wan Chai Development Phase II- Central-Wan Chai Bypass over MTR	DP3	22 March 2011
	Tsuen Wan Line	DF3	(Completed)
04/HY/2006	Reconstruction of Bus Terminus near Man Yiu Street and Man Kwong Street	DP1	September 2010
	Man Hu Street and Man Kwong Street		(Completed)
HY/2009/17	Central - Wan Chai Bypass (CWB) at FEHD Whitfield Depot - Advanced piling	DP1	5 October 2010
	works.		(Completed)
HY/2009/18	Central - Wan Chai Bypass (CWB) – Central Interchange	DP1	10 March 2014
HY/2009/19	Central - Wanchai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link	DP1	24 March 2011
HK/2012/08	Wan Chai Development Phase II Central- Wan Chai Bypass at Wan Chai	DP1,DP2, DP3	5 March 2013
	West		
HY/2011/08	Central-Wan Chai Bypass (CWB) – Tunnel Buildings, Systems and Fittings, and Works Associated with Tunnel Commissioning	DP1	8 October 2014

Table 2.2 Details of Individual Contracts under the Project



an

2.4 Project Organization and Contact Personnel

- 2.4.1. Civil Engineering and Development Department and Highways Department are the overall project controllers for the Wan Chai Development Phase II and Central-Wan Chai Bypass respectively. For the construction phase of the Project, Project Engineer, Contractor(s), Environmental Team and Independent Environmental Checker are appointed to manage and control environmental issues.
- 2.4.2. The proposed project organization and lines of communication with respect to environmental protection works are shown in <u>*Figure 2.2.*</u>. Key personnel and contact particulars are summarized in *Table 2.3*:

Party	Role	Post	Name	Contact No.	Contact Fax
AECOM	Engineer's Representative for WDII	Principal Resident Engineer	Mr. Frankie Fan	2587 1778	2587 1877
	Engineer's Representative for CWB	Principal Resident Engineer	Mr. Peter Poon	3912 3388	3912 3010
Chun Wo – Leader Joint	Contractor under Contract	Project Manager	Mr. Simon Liu	9304 8355	2587 1878
Venture	no. HK/2009/01	Site Agent	Mr. Andy Yu	9648 4896	
		Construction Manager	Mr. Wyman Wong	9627 2467	
		Environmental Officer	Mr. Terry Tsang	6683 9394	
Chun Wo –	Contractor	Project Manager	Mr. Paul Yu	3658 3085	2827 9996
CRGL Joint Venture	under Contract no. HK/2009/02	Quality & Environmental Manager	Mr. C.P. Ho	9191 8856	
China State Construction	Contractor under Contract	Project Director	Chris Leung	3557 6393	2566 2192
Engineering (HK) Ltd.	no. HY/2009/15	Site Manager	Y Huo	3557 6368	
		Contractor's Representative	Rex Lau	3557 6405	-
		Environmental Officer	Andy Mak	3557 6347	
Chun Wo -	Contractor	Project Manager	Rayland Lee	3758 6788	2570 8013
CRGL - MBEC_Joint Venture	under Contract no. HY/2009/19	Site Agent	David Lau	3758 8879	
		Deputy Site Agent	Andy Chan	9879 4325	

 Table 2.3
 Contact Details of Key Personnel



Party	Role	Post	Name	Contact No.	Contact Fax
		Environmental Manager /	M.H. Isa	9884 0810	
		Environmental Officer			
		Construction Manager (Marine)	Wingo Wong	9300 2625	
		Construction Manager (Land)	Ivan Wong	9200 7552	
China State-	Contractor	Project Director	C. N. Lai	9106 5806	2877 1522
Build King Joint Venture	under Contract no. HK/2012/08	Project Manager	Eddie Chung	9189 8118	
		Site Agent	Keith Tse	9037 1839	
		Environmental Officer	James Ma	9130 9549	
China State	Contractor	Project Director	Chris Leung	3467 4299	2566 8061
	under Contract no. HY/2010/08	Deputy Project Director	Thomas Lui	3557 6452	
		Project Manager	Chan Ying Lun	3418 3001]
		Site Agent	Francis Suen	6672 0311	
		Environmental Officer	Gabriel Wong	35576466	
		Environmental Supervisor	Desmond Ho Tsz Ho	3557 6466	
Ramboll Environ Hong Kong Limited	Independent Environmental Checker (IEC)	Independent Environmental Checker (IEC)	Mr. David Yeung	3465 2888	3465 2899
Lam Geotechnics Limited	Environmental Team (ET)	Environmental Team Leader (ETL)	Mr. Raymond Dai	2882 3939	2882 3331

2.5 Principal Work and Activities

2.5.1. During this reporting period, the principal work activities for Contract no. HK/2009/01 are summarized in *Table 2.4*.

Table 2.4 Principal Work Activities for Contract no. HK/2009/01

ĺ	March 2017	April 2017	May 2017
	• Nil	• Nil	• Nil

2.5.2. During this reporting period, the principal work activities for Contract no. HK/2009/02 are summarized in *Table 2.5*.



Table 2.5 Principal Work Activities for Contract no. HK/2009/02

March 2017	April 2017	May 2017	
• Nil	• Nil	• Nil	

2.5.3. Major construction activities for Contract no. HY/2009/15 was commenced on 10 November 2010. During this reporting period, the principal work activities for Contract no. HY/2009/15 are summarized as below:

Table 2.6 Principal Work Activities for Contract no. HY/2009/15

	March 2017	April 2017	May 2017
•	Reinstate the seawall of	• Nil	• Nil
	Eastern Breakwater		

2.5.4. Contract no. HY/2009/19 was commenced on 24 March 2011. During this reporting period, the principal work activities for Contract no. HY/2009/19 are summarized as below:

Table 2.7 Principal Work Activities for Contract no. HY/2009/19

March 2017	April 2017	May 2017
• Nil	• Nil	• Nil

2.5.5. Contract no. HK/2012/08 was commenced on March 2013. During this reporting period, the principal work activities for Contract no. HK/2012/08 are summarized as below:

Table 2.8 Principal Work Activities for Contract no. HK/2012/08

March 2017	April 2017	May 2017
 Installation of Box 1 unit 	 Installation of Box 1 unit 	Construction of Box 1
Construction of culvert L Bay 8	Construction of culvert L Bay 8	unit

2.5.6. Contract no. HY/2010/08 was commenced on 21 March 2013. During this reporting period, the principal work activities for Contract no. HY/2010/08 are summarized as below:

Table 2.9 Principal Work Activities for Contract no. HY/2010/08

March 2017	April 2017	May 2017
Diversion pipe maintenance	Diversion pipe maintenance	Diversion pipe maintenance
Preparation for Diaphragm	 Preparation for Diaphragm 	Preparation for Diaphragm
Wall Removal Works	Wall Removal Works	Wall Removal Works
Removal of reclamation at	 Removal of reclamation at 	Removal of reclamation at
TS3W	TS3W	TS3W

2.5.7. Implementation status of the recommended mitigation measures during this reporting period is presented in *Appendix 2.1.*



3. MONITORING REQUIREMENTS

3.1. Noise Monitoring

NOISE MONITORING STATIONS

3.1.1. The noise monitoring stations for the Project are listed and shown in *Table 3.1* and *Figure* 3.1. Appendix 3.1 shows the established Action/Limit Levels for the monitoring works.

Station	Description	
M1a	Footbridge at Ex-Harbour Road Sports Centre*	
M2b	Noon Gun Area	
МЗа	Tung Lo Wan Fire Station	
M4b	Victoria Centre	
M5b	City Garden	
M6	HK Baptist Church Henrietta Secondary School	

 Table 3.1
 Noise Monitoring Stations

Remarks*: With respect to the demolition of Ex-harbour Road Sports Centre, the respective noise monitoring station M1a- Harbour Road Sports Centre were finely adjusted on 16 and 25 May 2017 and thereafter to the Footbridge at Harbour Road Sports Centre for noise monitoring.

NOISE MONITORING PARAMETERS, FREQUENCY AND DURATION

- 3.1.2. The construction noise level shall be measured in terms of the A-weighted equivalent continuous sound pressure level (L_{eq}). L_{eq (30 minutes)} shall be used as the monitoring parameter for the time period between 0700 and 1900 hours on normal weekdays. For all other time periods, L_{eq (5 minutes)} shall be employed for comparison with the Noise Control Ordinance (NCO) criteria. Supplementary information for data auditing, statistical results such as L10 and L90 shall also be obtained for reference.
- 3.1.3. Noise monitoring shall be carried out at all the designated monitoring stations. The monitoring frequency shall depend on the scale of the construction activities. The following is an initial guide on the regular monitoring frequency for each station on a weekly basis when noise generating activities are underway:
 - one set of measurements between 0700 and 1900 hours on normal weekdays.
- 3.1.4. If construction works are extended to include works during the hours of 1900 0700 as well as public holidays and Sundays, additional weekly impact monitoring shall be carried out during respective restricted hours periods. Applicable permits under NCO shall be obtained by the Contractor.



- 3.1.5. Real time noise shall be carried out at the designated monitoring stations. The following is an initial guide on the regular monitoring frequency for each station on a 24 hours daily basis when noise generating activities are underway:
 - One set of measurements between 0700 and 1900 hours on normal weekdays.
 - One set of measurements between 1900 and 2300 hours on normal weekdays and 0700 and 2300 hours on public holidays.
 - One set of measurements between 2300 and 0700 hours on next day on everyday.

MONITORING EQUIPMENT

- 3.1.6. As referred to in the Technical Memorandum [™] issued under the NCO, sound level meters in compliance with the International Electrotechnical Commission Publications 651: 1979 (Type 1) and 804: 1985 (Type 1) specifications shall be used for carrying out the noise monitoring. Immediately prior to and following each noise measurement the accuracy of the sound level meter shall be checked using an acoustic calibrator generating a known sound pressure level at a known frequency. Measurements may be accepted as valid only if the calibration level from before and after the noise measurement agree to within 1.0 dB.
- 3.1.7. Noise measurements shall not be made in fog, rain, wind with a steady speed exceeding 5 m/s or wind with gusts exceeding 10 m/s. The wind speed shall be checked with a portable wind speed meter capable of measuring the wind speed in m/s.

3.2. Air Monitoring

AIR QUALITY MONITORING STATIONS

3.2.1. The air monitoring stations for the Project are listed and shown in *Table 3.2* and *Figure 3.1*. *Appendix 3.1* shows the established Action/Limit Levels for the monitoring works.

Station ID	Monitoring Location	Description
CMA1b	Oil Street Site Office**	North Point
CMA2a	Causeway Bay Community Centre	Causeway Bay
CMA3a	CWB PRE Site Office *	Causeway Bay
CMA4a	Society for the Prevention of Cruelty to Animals	Wan Chai
CMA5b	Pedestrian Plaza***	Wan Chai
CMA6a	WDII PRE Site Office *	Wan Chai

 Table 3.2
 Air Monitoring Stations

Remarks*: As per the ENPC meeting in January 2011, the monitoring stations CMA3a - Future CWB site office at Wanchai Waterfront Promenade and CMA6a - Future AECOM site office at Work Area were renamed as remark.

Remarks**: The location ID of monitoring station CMA1b was updated as "Oil Street Site Office" in April 2013.



Remarks***: The station ID and monitoring location was updated in December 2014 with respect to monitoring station relocation.

AIR MONITORING PARAMETERS, FREQUENCY AND DURATION

- 3.2.2. One-hour and 24-hour TSP levels should be measured to indicate the impacts of construction dust on air quality. The 24-hour TSP levels shall be measured by following the standard high volume sampling method as set out in the Title 40 of the Code of Federal Regulations, Chapter 1 (Part 50), Appendix B.
- 3.2.3. All relevant data including temperature, pressure, weather conditions, elapsed-time meter reading for the start and stop of the sampler, identification and weight of the filter paper, and any other local atmospheric factors affecting or affected by site conditions, etc., shall be recorded down in detail.
- 3.2.4. For regular impact monitoring, the sampling frequency of at least once in every six-days, shall be strictly observed at all the monitoring stations for 24-hour TSP monitoring. For 1-hour TSP monitoring, the sampling frequency of at least three times in every six-days should be undertaken when the highest dust impact occurs.

SAMPLING PROCEDURE AND MONITORING EQUIPMENT

- 3.2.5 High volume samplers (HVSs) in compliance with the following specifications shall be used for carrying out the 1-hour and 24-hour TSP monitoring:
 - 0.6 1.7 m3 per minute adjustable flow range;
 - equipped with a timing / control device with +/- 5 minutes accuracy for 24 hours operation;
 - installed with elapsed-time meter with +/- 2 minutes accuracy for 24 hours operation;
 - capable of providing a minimum exposed area of 406 cm2;
 - flow control accuracy: +/- 2.5% deviation over 24-hour sampling period;
 - equipped with a shelter to protect the filter and sampler;
 - incorporated with an electronic mass flow rate controller or other equivalent devices;
 - equipped with a flow recorder for continuous monitoring;
 - provided with a peaked roof inlet;
 - incorporated with a manometer;
 - able to hold and seal the filter paper to the sampler housing at horizontal position;
 - easily changeable filter; and
 - capable of operating continuously for a 24-hour period.
- 3.2.6 Initial calibration of dust monitoring equipment shall be conducted upon installation and thereafter at bi-monthly intervals. The transfer standard shall be traceable to the internationally recognized primary standard and be calibrated annually. The concern parties such as IEC shall properly document the calibration data for future reference. All the data should be converted into standard temperature and pressure condition.



LABORATORY MEASUREMENT / ANALYSIS

- 3.2.7 A clean laboratory with constant temperature and humidity control, and equipped with necessary measuring and conditioning instruments to handle the dust samples collected, shall be available for sample analysis, and equipment calibration and maintenance. The laboratory should be HOKLAS accredited.
- 3.2.8 An alternative non-HOKLAS accredited laboratory was set-up for carrying out the laboratory analysis, the laboratory equipment was approved by the ER on 8 February 2011 and the measurement procedures were witnessed by the IEC. Any measurement performed by the laboratory was be demonstrated to the satisfaction of the ER and IEC. IEC shall regularly audit to the measurement performed by the laboratory to ensure the accuracy of measurement results.
- 3.2.9 Filter paper of size 8" x 10" shall be labelled before sampling. It shall be a clean filter paper with no pinholes, and shall be conditioned in a humidity-controlled chamber for over 24-hours and be pre-weighed before use for the sampling.
- 3.2.10 After sampling, the filter paper loaded with dust shall be kept in a clean and tightly sealed plastic bag. The filter paper shall then be returned to the laboratory for reconditioning in the humidity controlled chamber followed by accurate weighing by an electronic balance with readout down to 0.1 mg. The balance shall be regularly calibrated against a traceable standard.
- 3.2.11 All the collected samples shall be kept in a good condition for 6 months before disposal.

IMPACT MONITORING FOR ODOUR PATROL

- 3.2.12 Odour patrols along the shorelines of Causeway Bay Typhoon Shelter and ex-Wan Chai Public Cargo Working Area when there is temporary reclamation in Causeway Bay Typhoon Shelter and/or in the ex-Wan Chai Public Cargo Working Area, or when there is dredging of the odorous sediment and slime at the south-western corner of the Causeway Bay Typhoon Shelter. Odour patrols will be carried out at bi-weekly intervals during July, August and September by a qualified person of the ET who shall:
 - be at least 16 years of age;
 - be free from any respiratory illnesses; and
 - not be allowed to smoke, eat, drink (except water) or use chewing gum or sweets 30 min
 - before and during odour patrol
- 3.2.13 Odour patrol shall be conducted by independent trained personnel / competent persons patrolling and sniffing around the shore as shown in *Figure 3.1* to detect any odour at the concerned hours (afternoon is preferred for higher daily temperature).
- 3.2.14 The qualified person will use the nose (olfactory sensor) to sniff odours at different locations. The main odour emission sources and the areas to be affected by the odour nuisance will be identified.



- 3.2.15 The perceived odour intensity is to be divided into 5 levels which are ranked in the descending order as follows:
 - 0 Not detected. No odour perceived or an odour so weak that it cannot be easily characterized or described;
 - 1 Slight Identifiable odour, and slight chance to have odour nuisance;
 - 2 Moderate Identifiable odour, and moderate chance to have odour nuisance;
 - 3 Strong Identifiable, likely to have odour nuisance;
 - 4 Extreme Severe odour, and unacceptable odour level.
- 3.2.16 The findings including odour intensity, odour nature and possible odour sources, and also the local wind speed and direction at each location will be recorded. In addition, some relevant meteorological and tidal data such as daily average temperature, and daily average humidity, on that surveyed day will be obtained from the Hong Kong Observatory Station for reference. The Action and Limit levels for odour patrol are shown in *Appendix 3.1*.

3.3 Water Quality Monitoring

- 3.3.1. The EIA Report has identified that the key water quality impact would be associated with the dredging works during the construction phase. Marine water quality monitoring for dissolved oxygen (DO), suspended solid (SS) and turbidity is therefore recommended to be carried out at selected WSD flushing water intakes. The impact monitoring should be carried out during the proposed dredging works to ensure the compliance with the water quality standards.
- 3.3.2. The updated EM&A Manual for EP-356/2009 (Version in March 2011) is approval by EPD on 29 April 2011. As such, the Action Level and Limit Level for the wet season (April – September) will be effected and applied to the water quality monitoring data from 30 April 2011.

Water Quality Monitoring Stations

3.3.3. Water quality monitoring was undertaken at WSD salt water intakes and cooling water intakes along the seafront of the Victoria Harbour. The proposed water quality monitoring stations of the Project are shown in *Table 3.3* and *Figure 3.1*. *Appendix 3.1* shows the established Action/Limit Levels for the monitoring works.

Station Ref.	Location	Easting	Northing		
WSD Salt Water Int	WSD Salt Water Intake				
WSD19	Sheung Wan	833415.0	816771.0		
Cooling Water Inta	ke				
C1	HKCEC Extension	835885.6	816223.0		
C7	Windsor House	837193.7	816150.0		
P1	HKCEC Phase I	835774.7	816179.4		
P3	The Academy of performing Arts	835824.6	816212.0		
P4	Shui on Centre	835865.6	816220.0		

Table 3.3 Marine Water Quality Stations for Water Quality Monitoring



Station Ref.	Location	Easting	Northing	
P5	Government Buildings (Wanchai Tower / Revenue Tower / Immigration Tower)	835895.2	816215.2	
Cooling Water Inta	ke / WSD Salt Water Intake			
RW21-P789 Great Eagle Centre/ Sun Hung Kai 836268.0 816020.0 Centre/ WSD Wanchai salt water intake 836268.0 816020.0				

Remarks: - The cessation of seawater intake operation for C6 was confirmed on 17 May 2011, the water monitoring at C6 was then terminated since 17 May 2011.

- 4-week post construction water quality monitoring at WSD9, WSD10, WSD15, WSD17, C8 and C9 were completed on 6 Feb 2012 and the water quality monitoring at WSD 10 and WSD15 were temporary suspended since 8 Feb 2012, and WSD9 and WSD17 was implemented with respect to HK/2009/02 from 8 Feb 2012 onwards.
- C8 and C9 were implemented with respect to HY/2009/19 from 28 Jan 2012.
- C8 & C9 were temporary suspended since 30 March 2013.
- WSD7 and WSD20 water quality monitoring were temporarily suspended from 27 Apr 2012.
- C2, C3 C4e and C4w water quality monitoring station was temporarily suspended since 24 Apr 2013
- C5e and C5w water quality monitoring station was temporarily suspended since 29 July 2013.
- WSD21 water quality monitoring station was temporarily suspended since 12 Mar 2014
- WSD9 and WSD17 water quality monitoring station was temporarily suspended since 8 Sep 2014 flood tide.
- The water quality monitoring station C1 shall be associated with Contract No.
- HK/2009/02 upon commencement of marine works under DP3 at WCR3 area - The water quality monitoring station RW21-P789 was adjusted to RW21-P789E and
- RW21-P789W since 28 November 2016 ebb-tide.
- The water quality monitoring was reverted to previous monitoring station RW21-P789 from PW21-P789E and RW21-P789W from 25 January 2017 onwards.

WATER QUALITY PARAMETERS AND FREQUENCY

- 3.3.4. Monitoring of dissolved oxygen (DO), turbidity and suspended solids (SS) shall be carried out at WSD flushing water intakes and cooling water intakes. DO and Turbidity are measured insitu while SS is determined in laboratory.
- 3.3.5. In association with the water quality parameters, other relevant data shall also be measured, such as monitoring location/position, time, sampling depth, water temperature, pH, salinity, dissolved oxygen (DO) saturation, weather conditions, sea conditions, tidal stage, and any special phenomena and work underway at the construction site etc.
- 3.3.6. The interval between two sets of monitoring should not be less than 36 hours except where there are exceedances of Action and/or Limit Levels, in which case the monitoring frequency will be increased. *Table 3.4* shows the proposed monitoring frequency and water quality parameters. Duplicate in-situ measurements and water sampling should be carried out in each sampling event. For selection of tides for in-situ measurement and water sampling, tidal range of individual flood and ebb tides should be not less than 0.5m.



Activities	Monitoring Frequency ¹	Parameters ²
During the 4-week baseline monitoring period	Three days per week, at mid- flood and mid-ebb tides	Turbidity, Suspended Solids (SS), Dissolved Oxygen (DO), pH, Temperature, Salinity
During marine construction works	Three days per week, at mid- flood and mid-ebb tides	Turbidity, Suspended Solids (SS), Dissolved Oxygen (DO), pH, Temperature, Salinity
After completion of marine construction works	Three days per week, at mid- flood and mid-ebb tides	Turbidity, Suspended Solids (SS), Dissolved Oxygen (DO), pH, Temperature, Salinity

 Table 3.4
 Marine Water Quality Monitoring Frequency and Parameters

Notes:

- 1. For selection of tides for in-situ measurement and water sampling, tidal range of individual flood and ebb tides should be not less than 0.5m.
- 2. Turbidity should be measured in situ whereas SS should be determined by laboratory.

DISSOLVED OXYGEN AND TEMPERATURE MEASURING EQUIPMENT

- 3.3.7. The instrument should be a portable, weatherproof dissolved oxygen measuring instrument complete with cable, sensor, comprehensive operation manuals, and use a DC power source. It should be capable of measuring:
 - a dissolved oxygen level in the range of 0-20 mg/l and 0-200% saturation
 - a temperature of 0-45 degree Celsius
- 3.3.8. It should have a membrane electrode with automatic temperature compensation complete with a cable. Sufficient stocks of spare electrodes and cables should be available for replacement where necessary. (e.g. YSI model 59 meter, YSI 5739 probe, YSI 5795A submersible stirrer with reel and cable or an approved similar instrument).
- 3.3.9. Should salinity compensation not be build-in in the DO equipment, in-situ salinity shall be measured to calibrate the DO equipment prior to each DO measurement.

TURBIDITY MEASUREMENT INSTRUMENT

3.3.10 The instrument should be a portable, weatherproof turbidity-measuring instrument complete with comprehensive operation manual. The equipment should use a DC power source. It should have a photoelectric sensor capable of measuring turbidity between 0-1000 NTU and be complete with a cable (e.g. Hach model 2100P or an approved similar instrument).

SAMPLER

3.3.11 Water sampler comprises a transparent PVC cylinder, with a capacity of not less than 2 litres, and can be effectively sealed with latex cups at both ends. The sampler should have a positive latching system to keep it open and prevent premature closure until released by a messenger when the sampler is at the selected water depth (e.g. Kahlsico Water Sampler or an approved similar instrument).



SAMPLE CONTAINER AND STORAGE

3.3.12 Water samples for suspended solids measurement should be collected in high-density polythene bottles, packed in ice (cooled to 4°C without being frozen), and delivered to ALS Technichem (HK) Pty Ltd. as soon as possible after collection for analysis.

WATER DEPTH DETECTOR

3.3.13 A portable, battery-operated echo sounder shall be used for the determination of water depth at each designated monitoring station. This unit can either be handheld or affixed to the bottom of the workboat, if the same vessel is to be used throughout the monitoring programme.

<u>SALINITY</u>

3.3.14 A portable salinometer capable of measuring salinity in the range of 0-40 ppt shall be provided for measuring salinity of the water at each of monitoring location.

MONITORING POSITION EQUIPMENT

3.3.15 A hand-held or boat-fixed type digital Global Positioning System (GPS) with waypoint bearing indication or other equivalent instrument of similar accuracy shall be provided and used during monitoring to ensure the monitoring vessel is at the correct location before taking measurements.

CALIBRATION OF IN-SITU INSTRUMENTS

- 3.3.16 All in-situ monitoring instrument shall be checked, calibrated and certified by a laboratory accredited under HOKLAS or equivalent before use, and subsequently re-calibrated at 3 monthly intervals throughout all stages of the water quality monitoring. Responses of sensors and electrodes should be checked with certified standard solutions before each use. Wet bulb calibration for a DO meter shall be carried out before measurement at each monitoring location.
- 3.3.17 For the on site calibration of field equipment by the ET, the BS 127:1993, "Guide to Field and on-site test methods for the analysis of waters" should be observed.
- 3.3.18 Sufficient stocks of spare parts should be maintained for replacements when necessary. Backup monitoring equipment shall also be made available so that monitoring can proceed uninterrupted even when some equipment is under maintenance, calibration, etc.

LABORATORY MEASUREMENT / ANALYSIS

3.3.19 Analysis of suspended solids has been carried out in a HOKLAS accredited laboratory, ALS Technichem (HK) Pty Ltd. Water samples of about 1L shall be collected at the monitoring stations for carrying out the laboratory SS determination. The SS determination work shall



start within 24 hours after collection of the water samples. The SS determination shall follow APHA 19ed or equivalent methods subject to the approval of IEC and EPD.

ENHANCED WATER QUALITY MONITORING IN THE EX-WAN CHAI PUBLIC CARGO WORKING AREA AND THE CAUSEWAY BAY TYPHOON SHELTER

- 3.3.20 The enhanced water quality monitoring and audit programme is to avoid aggravation of odour nuisance from seawater arising from temporary reclamation in the ex-Wan Chai Public Cargo Working Area and the Causeway Bay Typhoon Shelter.
- 3.3.21 Dissolved oxygen monitoring at the intakes C6 and C7 in Causeway Bay Typhoon Shelter when there is temporary reclamation in Causeway Bay Typhoon Shelter and at the south-western and south-eastern corners of the ex-Wan Chai Public Cargo Working Area. The proposed water quality monitoring stations of the Project are shown in *Table 3.5* and *Figure* <u>3.1.</u>

Station	Location
C6	Excelsior Hotel
C7	Windsor House
Ex-WPCWA-SW	South-western of the ex-Wan Chai Public Cargo Working Area
Ex-WPCWA-SE	South-eastern of the ex-Wan Chai Public Cargo Working Area

Table 3.5 Marine Water Quality Stations for Enhanced Water Quality Monitoring

Remarks:

- 1. Enhanced DO monitoring at Windsor House Cooling (Station Ref: C7) was temporarily suspended since 22 October 2014 with respect to the formation of temporary reclamation zone TS3 and to be resumed upon removal of the respective temporary reclamation zone.
- 2. Enhanced DO monitoring at Monitoring station at Ex-WPCWA SE was temporarily suspended from 31 August 2015 with respect to seawall reinstatement works and formation of active works area. The Enhance DO monitoring at Ex-WPCWA SE was resumed on 11 May 2016 due to completed section of seawall reinstatement works are Ex-PCWA.
- 3.3.22 The monitoring of dissolved oxygen are to be carried out 3 days per week, at mid-flood and mid-ebb tides for 3 water depths (1m below water surface, mid-depth and 1m above sea bed, except where the water depth less than 6m, the mid-depth may be omitted. If the water depth be less than 3m, only the mid-depth will be monitored).

DAILY SS MONITORING AND 24 HOURS TURBIDITY MONITORING SYSTEM

- 3.3.23 During dredging of the sediment at the south-western corner of the Causeway Bay Typhoon Shelter, daily monitoring of suspended solids and 24 hour monitoring of turbidity at the cooling water intakes (C6 and C7) shall be conducted.
- 3.3.24 The 24 hours monitoring of turbidty at the cooling water intakes (C6 and C7) shall be established by setting up a continuous water quality monitoring station in front of the intakes during the dredging activities. The monitoring system include the turbidity sensor and data



logger which is capable of data capturing at every 5 minutes. The data shall be downloaded daily and compared with the Action and Limit level determined during the baseline water quality monitoring at the cooling water intake locations.

ADDITIONAL DISSOVLED OXYGEN MONITORING FOR CULVERT L WATER DISCHARGE FLOW

- 3.3.25 In response to the Condition 2.18 of the Environmental Permit no. EP-356/2009 requiring that a silt curtain / impermeable barrier system be installed to channel water discharge flow from Culvert L to locations outside the embayment area, a proposed replacement of the requirement with additional dissolved oxygen monitoring has been conducted at three monitoring stations, namely A, B and C between the eastern seawall of Central Reclamation Phase III and the HKCEC Extension since November 2011 under EP-356/2009 so that DO level between the eastern seawall of Central Reclamation Phase II and the HKCEC extension could be continuously monitored.
- 3.3.26 With respect to the commencement of dredging works under HK/2012/08 and the installation of MTR precast protection unit, the enhanced water quality monitoring for Culvert L was temporarily suspended since 24 July 2013
- 3.3.27 The monitoring of dissolved oxygen are to be carried out once per week, at mid-flood and mid-ebb tides for 3 water depths (1m below water surface, mid-depth and 1m above sea bed, except where the water depth less than 6m, the mid-depth may be omitted. If the water depth be equal to or less than 3m, only the mid-depth will be monitored).



4. MONITORING RESULTS

- 4.0.1. The environmental monitoring will be implemented based on the division of works areas of each designed project managed under different contracts with separate FEP applied by individual contractors. Overall layout showing work areas of various contracts, latest status of work commencement and monitoring stations is shown in <u>Figure 2.1</u> and <u>Figure 3.1</u>. The monitoring results are presented in according to the Individual Contract(s).
- 4.0.2 According to EP-364/2009/A Part B, "Scale and Scope of Designated Project", Remarks (c), "The permanent and temporary reclamation and associated dredging works related to the CWB construction are separately covered by environmental permit No. EP-356/2009 issued to Civil Engineering and Development Department", and marine piling works to be conducted by the Contractor of Contract no. HY/2009/19 from 28 January 2012 was considered to be governed under EP-356/2009. As the construction site area of Contract no. HY/2009/11 had already been handed over to Contract no. HY/2009/19, the designated noise, water and air quality monitoring stations for Contract no. HY/2009/11 would be shared with Contract no. HY/2009/19 from 28 January 2012.

4.1. Noise Monitoring Results

Contract no. HK/2009/01 - Wan Chai Development Phase II – Central –Wanchai Bypass at HKCEC and Contract no. HK/2009/02 - Wan Chai Development Phase II – Central – Wan Chai Bypass at WanChai East

4.1.1. The proposed divisions of noise monitoring stations are summarized in *Table 4.1* below.

Table 4.1	Noise Monitoring Station for Contract nos. HK/2	2009/01 and HK/2009/02
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Station	Description	
M1a	Footbridge at Ex-Harbour Road Sports Centre	

- 4.1.2. No action or limit level exceedance was recorded in March reporting month.
- 4.1.3. No action or limit level exceedance was recorded in April reporting month.
- 4.1.4. Two limit level exceedances were recorded at M1a Footbridge at Ex-Harbour Road Sports Centre on 16 and 25 May 2017 in May reporting month.
- 4.1.5. No Construction works was conducted under Contract HK/2009/01 around the monitoring station on 16 and 25 May 2017, non WDII-CWB Projects breaking and drilling works was observed on 16 May 2017 and non WDII-CWB Project bored pilling works was conducted on 25 May 2017 during monitoring period and observed as the major noise contribution. Hence, the exceedances were considered as non-Project related.
- 4.1.6. Despite rebar fixing, and formwork fixing works was conducted on 16 May 2017 and rebar fixing was conducted on 25 May 2017 under Contract HK/2009/02, non WDII-CWB Projects breaking and drilling works was observed on 16 May 2017 and non WDII-CWB Project bored pilling works was conducted on 25 May 2017 during monitoring period and observed as the major noise contribution. Hence, the exceedances were considered as non-Project related.



<u>Contract no. HY/2009/15 - Central-Wanchai Bypass – Tunnel (Causeway Bay Typhoon</u> <u>Shelter Section)</u>

4.1.7. The noise monitoring for HY/2009/15 was commenced on 10 November 2010. The proposed division of noise monitoring stations are summarized in *Table 4.2* below.

 Table 4.2
 Noise Monitoring Station for Contract nos. HY/2009/15

Station	Description
M2b	Noon Gun Area
МЗа	Tung Lo Wan Fire Station

4.1.8. No action or limit level exceedance was recorded in this reporting quarter.

Contract no. HY/2009/19 – Central- Wan Chai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link

- 4.1.9. Noise quality monitoring at M4b and M5b have been implemented with respect to HY/2009/19 since the marine bore piling work started on 28 Jan 2012.
- 4.1.10. The proposed division of noise monitoring stations for Contract no. HY/2009/19 are summarized in *Table 4.3* below:

Table 4.3 Noise Monitoring Stations for Contract no. HY/2009/19

Station	Description	
M4b	Victoria Centre	
M5b	City Garden	
M6	HK Baptist Church Henrietta Secondary School	

- 4.1.11. No action or limit level exceedance was recorded in March reporting month.
- 4.1.12. School examination was scheduled to be taken place at Henrietta Secondary School on 3, 10, 25 and 26 April 2017, the limit level of noise monitoring at station M6 was adjusted to 65dB(A) during examination period accordingly.
- 4.1.13. Three limit level exceedances were recorded at M6 HK Baptist Church Henrietta Secondary School on 03, 10 and 26 April 2017 in April reporting month.
- 4.1.14. Traffic noise was observed during monitoring on 03, 10 and 26 April 2017 and were considered as the major noise contribution. As such, the limit level exceedances were concluded as non-project related.
- 4.1.15. One limit level exceedance was recorded at M5b City Garden on 18 April 2017 in April reporting month.



- 4.1.16. Starter bar fixing works and breaking works at marine pier under Contract HY/2009/19 was conducted during the measurement on 18 April 2017, it was observed that breaking operation was the major noise contribution during measurement. It is concluded that the exceedance was Project related and the contractor was requested to submit a proposal for remediation measures following the Event and Action Plan. Actions from the remediation plan including i) Closing the opening of the temporary noise barrier ii) provide physical wrapping of breaker to dampen noise emission and iii) conduct breaking works intermittently were implemented by the Contractor and no further exceedance was recorded upon implementation of the remedial actions.
- 4.1.17. No action or limit level exceedance was recorded in May reporting month.

Contract no. HY/2010/08-Central-Wanchi Bypass Tunnel (Slip Road 8 Section)

4.1.18. The proposed division of noise monitoring stations are summarized in **Table 4.4** below.

 Table 4.4
 Noise Monitoring Station for Contract no. HY/2010/08

Station	Description
M2b	Noon Gun Area
МЗа	Tung Lo Wan Fire Station

- 4.1.19. No action or limit level exceedance was recorded in the reporting quarter.
- 4.1.20. All Noise monitoring results measured in this reporting period are reviewed and summarized.
 Details of noise monitoring results and graphical presentation can be referred in <u>Appendix</u>
 <u>4.1</u>.

4.2. Air Monitoring Results

4.2.1 1hr and 24hr TSP monitoring were conducted at CMA1b, CMA2a, CMA3a, CMA4a, CMA5b and CMA6a in the reporting period.

Contract no. HK/2009/01 - Wan Chai Development Phase II – Central –Wanchai Bypass at HKCEC

4.2.2 Air monitoring was commenced on 1 April 2011 in response to the commencement of the land-filling work for Contract no. HK/2009/01. The proposed division of air monitoring stations are summarized in *Table 4.5* below.

Station	Description
CMA5b	Pedestrian Plaza
CMA6a	WDII PRE Site Office *

 Table 4.5
 Air Monitoring Stations for Contract no. HK/2009/01



- 4.2.3 One 24hr TSP limit level exceedance was recorded at CMA5b on 02 March 2017.
- 4.2.4 No construction works was undertaken on 02 March 2017 around Pedestrian Plaza under Contract HK/2009/01, no particular observation regarding air quality impact was observed during sampling. The exceedance was considered to be non-project related and potentially contributed by ambient air quality and other sources affecting local ambient condition such as road traffic next to the monitoring station.
- 4.2.5 Two 1hr TSP action level exceedances and one 1hr TSP limit level exceedance were recorded at CMA5b on 03 March 2017.
- 4.2.6 No construction works was undertaken on 03 March 2017 around Pedestrian Plaza under Contract HK/2009/01, no particular observation regarding air quality impact was observed during sampling. The exceedances were considered to be non-project related and potentially contributed by ambient air quality and other sources affecting local ambient condition such as road traffic next to the monitoring station.
- 4.2.7 No action or limit level exceedance was recorded in April reporting month.
- 4.2.8 No action or limit level exceedance was recorded in May reporting month.

<u>Contract no. HK/2009/02 - Wan Chai Development Phase II – Central – Wan Chai Bypass at</u> WanChai East

4.2.9 Air monitoring was commenced in mid-January 2011 for the land-filling work for Contract no. HK/2009/02. The proposed division of air monitoring stations is summarized in *Table 4.6* below.

Station	Description
CMA4a	Society for the Prevention of Cruelty to Animals

Table 4.6Air Monitoring Station for Contract no. HK/2009/02

- 4.2.10 One 1hr TSP limit level exceedance was recorded at CMA4a on 03 March 2017.
- 4.2.11 Despite backfilling works at Portion 3&4 and tunnel structure works at Portion 5 were conducted on 03 March 2017 on the monitoring date around the monitoring station under Contractor of HK/2009/02, dust suppression measure including covering of stockpile and watering for haul road and during loading and unloading of material were implemented by the Contractor and no particular observation regarding air quality impact was observed during sampling. The exceedance was considered to be non-project related and potentially contributed by ambient air quality and the observed renovation works next to the monitoring station.
- 4.2.12 No action or limit level exceedance was recorded in April reporting month.
- 4.2.13 No action or limit level exceedance was recorded in May reporting month.



<u>Contract no. HY/2009/15 - Central-Wanchai Bypass – Tunnel (Causeway Bay Typhoon</u> <u>Shelter Section)</u>

4.2.14 Air monitoring was commenced on 15 March 2011 for the land filling work for Contract no. HY/2009/15. The proposed division of air monitoring stations are summarized in *Table 4.7* below.

Table 4.7	Air Monitoring Station for Contract no. HY/2009/15

Station	Description
СМАЗа	CWB PRE Site Office

4.2.15 No action or limit exceedance was recorded in this reporting quarter.

Contract no. HY/2009/19 –Central- Wan Chai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link

- 4.2.16 Air monitoring at CMA1b and CMA2a have been implemented with respect to HY/2009/19 since the marine bore piling works started on 28 Jan 2012. No exceedance was recorded in the reporting period.
- 4.2.17 The proposed division of air monitoring stations is summarized in *Table 4.8* below.

Station	Description
CMA1b	Oil Street Site Office
CMA2a	Causeway Bay Community Centre

 Table 4.8 Air Monitoring Stations for Contract no. HY/2009/19

- 4.2.18 One 1hr TSP limit level exceedance was recorded at CMA1b on 27 March 2017.
- 4.2.19 No construction works was undertaken under Contract HY/2009/19 on the monitoring date at around Oil Street Site Office while the haul road around the concerned location was observed maintained in dampened condition and no particular observation regarding air quality impact was observed during sampling. In view of the above, the limit level exceedance was considered to be non-project related and contributed by local ambient condition.
- 4.2.20 No action or limit level exceedance was recorded in April reporting month.
- 4.2.21 No action or limit level exceedance was recorded in May reporting month.

Contract no. HK/2012/08- Wan Chai Development Phase II – Central-Wan Chai Bypass at Wan Chai West

4.2.22 The proposed division of air monitoring stations are summarized in *Table 4.9* below.



Station	Description
CMA5b	Pedestrian Plaza

- 4.2.23 One 24hr TSP limit level exceedance was recorded at CMA5b on 02 March 2017.
- 4.2.24 Despite concreting, formwork erection and rebar fixing were undertaken on the monitoring date at around Pedestrian Plaza under Contractor of HK/2012/08, dust suppression measure including haul road maintained in dampened condition was implemented and no particular observation regarding air quality impact was observed during sampling. The exceedance was considered to be non-project related and potentially contributed by ambient air quality and other sources affecting local ambient condition such as road traffic next to the monitoring station.
- 4.2.25 Two 1hr TSP action level exceedances and one 1hr TSP limit level exceedance were recorded at CMA5b on 03 March 2017.
- 4.2.26 Despite concreting, formwork erection and rebar fixing were undertaken on the monitoring date at around Pedestrian Plaza under Contractor of HK/2012/08, dust suppression measure including haul road maintained in dampened condition was implemented and no particular observation regarding air quality impact was observed during sampling. The exceedances were considered to be non-project related and potentially contributed by ambient air quality and other sources affecting local ambient condition such as road traffic next to the monitoring station.
- 4.2.27 No action or limit level exceedance was recorded in April reporting month.
- 4.2.28 No action or limit level exceedance was recorded in May reporting month.

Contract no. HY/2010/08- Central-Wanchai Bypass Tunnel (Slip Road 8 Section)

4.2.29 The proposed division of air monitoring stations are summarized in *Table 4.10* below.

Table 4.10 Air Monitoring Stations for Contract no. HY/2010/08

Station	Description
СМА3а	CWB PRE Site Office

4.2.30 No action or limit level exceedance was recorded in this reporting quarter.



4.3. Water Monitoring Results

Contract no. HK/2009/01 - Wan Chai Development Phase II – Central –Wanchai Bypass at HKCEC

4.3.1 Water quality monitoring for Contract no. HK/2009/01 was commenced on 23 July 2010. The proposed division of water monitoring stations is summarized in *Table 4.11* below.

Table 4.11 Water Monitoring Stations for Contract no. HK/2009/01

Station Ref.	Location	Easting	Northing
Cooling Water Intake			
C1	HKCEC Extension	835885.6	816223.0

4.3.2 No action or limit level was recorded in this reporting quarter.

<u>Contract no. HK/2009/02 - Wan Chai Development Wan Chai Development Phase II –</u> <u>Central – Wan Chai Bypass at WanChai East</u>

4.3.3 Water quality monitoring for Contract no. HK/2009/02 was commenced on 8 July 2010. The proposed division of water monitoring stations is summarized in *Table 4.12* below.

Station Ref.	Location	Easting	Northing
Cooling Water Intake			
C1	HKCEC Extension	835885.6	816223.0
Cooling Water Intake			
RW21-P789	Great Eagle Centre/ Sun Hung Kai Centre/WSD Wanchai salt water intake / China Resources Building	836268.0	816020.0

 Table 4.12 Water Monitoring Stations for Contract no. HK/2009/02

4.3.4 No action or limit level was recorded in this reporting quarter.

<u>Contract no. HK/2012/08 - Wan Chai Development Phase II – Central- Wan Chai Bypass at</u> Wan Chai West

4.3.5 Water monitoring for Contract no. HK/2012/08 was commenced on 5 March 2013. The proposed division of water monitoring stations are summarized in *Table 4.13* below.

 Table 4.13 Water Monitoring Stations for Contract no. HK/2012/08

Station Ref.	Location	Easting	Northing
WSD Salt Water Intake			
WSD19	Sheung Wan	833415.0	816771.0
Cooling Water Intake			
P1	HKCEC Phase I	835774.7	816179.4



Station Ref.	Location	Easting	Northing
P3	The Academy of performing Arts	835824.6	816212.0
P4	Shui on Centre	835865.6	816220.0
P5	Government Buildings (Wanchai Tower / Revenue Tower / Immigration Tower)	835895.2	816215.2

- 4.3.6 One limit level of suspended solid exceedance was recorded at WSD19 on 13 March 2017 in March reporting month.
- 4.3.7 After checking with the Contractor, no marine construction activity was conducted on the monitoring date. Location of construction area was at downstream of monitoring station WSD19 during the monitoring period. In view of the above, the exceedance was considered not project related.
- 4.3.8 One action level of turbidity exceedance and one limit level of suspended solid exceedance were recorded at P1 on 15 March 2017 in March reporting month.
- 4.3.9 After checking with the Contractor, earth works was conducted at the concerned location at Expo Drive West during the monitoring period on 15 March 2017 and contaminated effluent was observed discharging from the construction site water treatment unit into Victoria Harbour within HKCEC2E area during monitoring sampling and affecting the water quality at the concerned monitoring station. It was further confirmed on-site that the water treatment unit maintained under Contract HK/2012/08 located at the concerned upstream location was ineffective in particle settling.
- 4.3.10 As such, it was considered that the turbidity and suspended solid exceedances were related to Project works. Immediate repeat in-situ measurement has confirmed the exceedance recorded at P1 on 15 March 2016. The Contractor of HK/2012/08 was immediately advised to take immediate action to rectify the defects observed. Rectification measures including addition of flocculant to enhance the particulates settling rate within the water treatment unit was implemented on 15 March 2017.
- 4.3.11 No further turbidity exceedance was recorded during additional monitoring conducted on 16 March 2017 and no further contaminated discharge from the outlet point was observed during monitoring. Also, no further suspended solid exceedance was recorded on the subsequent monitoring on 17 March 2017.
- 4.3.12 In view of the above events, the Contractor of HK/2012/08 was advised to enhance the regular checking and maintenance of the concerned water treatment and ensure the remedial actions are strictly implemented to ensure the quality of the discharge effluent. The Contractor was also suggested to review the upcoming construction works and review the current site drainage and effluent control and treatment scheme to ensure the construction site discharge complies with relevant license requirement and avoid any potential adverse impact to nearby waters.
- 4.3.13 No action or limit level exceedance was recorded in April reporting month.



- 4.3.14 There was one limit level of turbidity exceedance recorded at WSD19 on 28 April 2017 in May reporting month.
- 4.3.15 After checking with Contractor, no marine construction activity was conducted on the monitoring date. Location of the construction area was at downstream of monitoring station WSD19 during the monitoring period. In view of the above, the exceedance was considered not project related.

<u>Contract no. HY/2009/15 - Central-Wanchai Bypass – Tunnel (Causeway Bay Typhoon Shelter</u> <u>Section)</u>

4.3.16 Due to the commencement of the maintenance dredging on 10 November 2010, water quality monitoring for Contract no. HY/2009/15 was commenced on 9 November 2010. The proposed division of water monitoring stations is summarized in *Table 4.14* and *Table 4.15* below.

 Table 4.14
 Water Monitoring Stations for Contract no. HY/2009/15

Station Ref.	Location	Easting	Northing	
Cooling Water Intake				
C7	Windsor House	837193.7	816150.0	
Comarke: The consistion of convertor intake operation for C6 was confirmed on 17 May 2011, the				

Remarks: - The cessation of seawater intake operation for C6 was confirmed on 17 May 2011, the water monitoring at C6 was then terminated since 17 May 2011.

Table 4.15 Enhance Dissolved Oxygen Monitoring Stations for Contract no. HY/20	009/15
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Station Ref.	Location
C6	Excelsior Hotel
Ex-WPCWA SW	South-western of the ex-Wan Chai Public Cargo Working Area
Ex-WPCWA-SE	South-eastern of the ex-Wan Chai Public Cargo Working Area

Remarks:

- 1. Enhanced DO monitoring at Windsor House Cooling (Station Ref: C7) was temporarily suspended since 22 October 2014 with respect to the formation of temporary reclamation zone TS3 and to be resumed upon removal of the respective temporary reclamation zone.
- Enhanced DO monitoring at Monitoring station at Ex-WPCWA SE was temporarily suspended from 31 August 2015 with respect to seawall reinstatement works and formation of active works area. The Enhance DO monitoring at Ex-WPCWA SE was resumed on 11 May 2016 due to completed section of seawall reinstatement works are Ex-PCWA.
- 4.3.17 No action or limit level exceedance was recorded in March reporting month.
- 4.3.18 No action or limit level exceedance was recorded in April reporting month.
- 4.3.19 There was one limit level of turbidity exceedance recorded at C7 on 17 May 2017 in May reporting month.
- 4.3.20 After checking with Contractor, no marine activity was conducted at Causeway Bay Typhoon Shelter on the monitoring date. In view of no marine construction activity, the exceedance was considered not related to project works.



- 4.3.21 There was one limit level of suspended solid exceedance recorded at C7 on 17 May 2017 in May reporting month.
- 4.3.22 After checking with Contractor, no marine activity was conducted at Causeway Bay Typhoon Shelter on the monitoring date. In view of no marine construction activity, the exceedance was considered not related to project works.

Contract no. HY/2010/08- Central-Wanchai Bypass Tunnel (Slip Road 8 Section)

4.3.23 The proposed division of water quality monitoring stations are summarized in *Table 4.16* and *Table 4.17* below:

Table 4.16 Water quality monitoring Stations for Contract no. HY/2010/08

Station Ref.	Location	Easting	Northing	
Cooling Water Intake				
C7	Windsor House	837193.7	816150.0	

Table 4.17 Enhance Dissolved Oxygen Monitoring Stations for Contract no. HY/2010/08

Station Ref.	Location	
C6	Excelsior Hotel	

Remarks:

Enhanced DO monitoring at Windsor House Cooling (Station Ref: C7) was temporarily suspended since 22 October 2014 with respect to the formation of temporary reclamation zone TS3 and to be resumed upon removal of the respective temporary reclamation zone.

- 4.3.24 No action or limit level exceedance was recorded in March reporting month.
- 4.3.25 No action or limit level exceedance was recorded in April reporting month.
- 4.3.26 There was one limit level of turbidity exceedance recorded at C7 on 17 May 2017 in May reporting month.
- 4.3.27 After checking with Contractor, despite removal of TS3 temporary reclamation at SW area was conducted on the monitoring date, Contractor mitigation measures including the use of impermeable barrier and silt curtain was in place and the installed silt screen was in place. No particular observation regarding water quality impact found in the vicinity of the monitoring station during the monitoring period. In view of the above, it was considered that the exceedance was not related to project works.
- 4.3.28 There was one limit level of suspended solid exceedance recorded at C7 on 17 May 2017 in May reporting month.
- 4.3.29 After checking with Contractor, despite removal of TS3 temporary reclamation at SW area was conducted on the monitoring date, Contractor mitigation measures including the use of impermeable barrier and silt curtain was in place and the installed silt screen was in place. No particular observation regarding water quality impact found in the vicinity of the monitoring



station during the monitoring period. In view of the above, it was considered that the exceedance was not related to project works.

4.4 Waste Monitoring Results

<u>Contract no. HK/2009/01 - Wan Chai Development Phase II – Central – Wanchai Bypass at</u> <u>HKCEC</u>

4.4.1 No Inert C&D waste and non-inert C&D waste was disposed of for the site works in this reporting period. Details of the waste flow table are summarized in *Table 4.18*.

Waste Type	Quantity this quarter	Cumulative Quantity- to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m ³	NIL	62116.405	ТКО137, ТМ38
Inert C&D materials recycled, m ³	NIL	5856.5	N/A
Non-inert C&D materials disposed, m ³	NIL	1673.69	SENT Landfill
Non-inert C&D materials recycled, kg	NIL	203993	N/A
Chemical waste disposed, kg	NIL	10250	N/A
Marine Sediment (Type 1 – Open Sea Disposal) , m ³	NIL (Bulk Volume)	97428.2 (Bulk Volume)	South of Cheung Chau
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal), m ³	NIL (Bulk Volume)	52250 (Bulk Volume)	East of Cha Chau
Dredged Sediment Requiring Type 3 – Special Treatment / Disposal contained in Geosynthetic Containers	NIL (Bulk Volume)	6773 (Bulk Volume)	East of Cha Chau

 Table 4.18 Details of Waste Disposal for Contract no. HK/2009/01

4.4.2 There were no Marine Sediment (Type 1 – Open Sea Disposal) and no Marine Sediment (Type 1- Open Sea Disposal (Dedicate Sites) & Type 2- Confined Marine Disposal) disposed of in this reporting quarter.

<u>Contract no. HK/2009/02 - Wan Chai Development Phase II – Central – Wan Chai Bypass at</u> <u>WanChai East</u>

4.4.3 No Inert and non-inert C&D waste were disposed of for the site works in this reporting period. Details of the waste flow table are summarized in *Table 4.19.*

Table 4.19 Details of Waste Disposal for Contract no. HK/2009/02



Waste Type	Quantity this quarter	Cumulative Quantity- to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m ³	NIL	276075.1	TKO137/ TM 38
Inert C&D materials recycled, m ³	NIL	18161	N/A
Non-inert C&D materials disposed, m ³	NIL	1515.103	SENT Landfill
Non-inert C&D materials recycled, m ³	N/A	N/A	N/A
Chemical waste disposed, kg	NIL	13860	SENT Landfill
Marine Sediment (Type 1 – Open Sea Disposal), m ³	NIL	240222 (Bulk volume)	South of Cheung Chau
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal), m ^{3 *}	NIL	146445 (Bulk volume)	East of Sha Chau

4.4.4 There was no Marine Sediment (Type 1 – Open Sea Disposal) and no Marine Sediment (Type 1- Open Sea Disposal (Dedicate Sites) & Type 2- Confined Marine Disposal) disposed of in this reporting quarter.

<u>Contract no. HY/2009/15 - Central-Wanchai Bypass – Tunnel (Causeway Bay Typhoon</u> <u>Shelter Section)</u>

4.4.5 There was no Inert C&D waste disposed in this reporting period and no non-inert C&D waste was disposed in this reporting period. Details of the waste flow table are summarized in *Table 4.20.*

Waste Type	Quantity this quarter	Cumulative Quantity- to-Date	Disposal / Dumping Grounds	Remarks
Inert C&D materials	NIL	141579.2	Tuen Mun Area 38	NIL
disposed, m ³	NIL	65216	TKO137 FB	NIL
Inert C&D materials recycled, m ³	NIL	8127.21	HY/2010/08	NIL
	NIL	304	Ex-PCWA	NIL
	NIL	111.9	TS4	NIL
Non-inert C&D materials disposed, m ³	NIL	252.2	SENT Landfill	NIL
Non-inert C&D materials recycled, kg	NIL	299361.5	N/A	NIL
Chemical waste	NIL	8,200	N/A	NIL

Table 4.20 Details of Waste Disposal for Contract no. HY/2009/15



Waste Type	Quantity this quarter	Cumulative Quantity- to-Date	Disposal / Dumping Grounds	Remarks
disposed, kg				
Marine Sediment (Type 1 – Open Sea Disposal) , m ³	NIL	156909 (Bulk Volume)	South of Cheung Chau	Dredging from TCBR1E / TCBR1W / TCBR2/ TCBR3 / TCBR4 / Maintenance dredging
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal), m ³	NIL	327746 (Bulk Volume)	East of Sha Chau	Dredging from TCBR1E / TCBR1W / TCBR2/ TCBR3 / TCBR4 / Maintenance dredging
Marine Sediment (Type 3 – Special Treatment / Disposal contained in Geosynthetic Containers)	NIL	12640 (Bulk Volume)	East of Sha Chau	Dredging from TCBR1W / Maintenance dredging
Marine Sediment (Type 2 – Confined Marine Disposal), m3	NIL (Bulk Volume)	9350 (Bulk Volume)	East of Sha Chau	Dredging from Eastern Breakwater of CBTS
Marine Sediment (Type 1 – Open Sea Disposal) , m3	NIL (Bulk Volume)	600 (Bulk Volume)	East Sha Chau / South of The Brothers	Dredging from Phase 3 Mooring Re-arrangement
Marine Sediment (Type 2– Confined Marine Disposal) , m3	NIL (Bulk Volume)	14,780 (Bulk Volume)	South of The Brothers	Dredging from Phase 3 Mooring Re-arrangement
Marine Sediment (Type 3 – Special Treatment / Disposal contained in Geosynehetic Containers), m3	NIL (Bulk Volume)	2,760 (Bulk Volume)	South of The Brothers	Dredging from Phase 3 Mooring Re-arrangement

^{4.4.6} There were no marine sediments Type1- Open Sea Disposal and no Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal in this reporting quarter.

<u>Contract no. HY/2009/19 – Central- WanChai Bypass Tunnel (North Point Section) and Island</u> <u>Eastern Corridor Link</u>

4.4.7 No Inert and non-inert C&D waste were disposed of in this reporting quarter. Details of the waste flow table are summarized in *Table 4.21*.

Waste Type	Quantity this quarter	Cumulative Quantity- to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m ³	NIL	355921.04	TM38
Inert C&D materials recycled, m ³	NIL	59367	N/A
Non-inert C&D materials	NIL	1068.6	N/A

Table 4.21 Details of Waste Disposal for Contract no. HY/2009/19



Lam Geotechnics Limited

Waste Type	Quantity this quarter	Cumulative Quantity- to-Date	Disposal / Dumping Grounds
disposed, m ³			
Non-inert C&D materials recycled, kg	NIL	333.14	N/A
Chemical waste disposed, L	NIL	2.12	N/A
Marine Sediment (Type 1 – Open Sea Disposal), m ³	NIL	162	South Cheung Chau
$\begin{array}{l} \mbox{Marine Sediment (Type 2 - Confined Marine Disposal)} \ , \\ \ m^3 \end{array}$	NIL	681	East Sha Chau
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal) , m3	NIL	4976.00	N/A

4.4.8 There were no marine sediments Type1- Open Sea Disposal and no Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal in this reporting quarter.

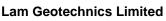
<u>Contract no. HK/2012/08 –Wan Chai Development Phase II – Central- Wan Chai Bypass at</u> <u>Wan Chai West</u>

4.4.9 No Inert and non-inert C&D waste were disposed of in this reporting quarter. Details of the waste flow table are summarized in *Table 4.22*.

Waste Type	Quantity this quarter	Cumulative Quantity- to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m ³	NIL	4131	TM38
Inert C&D materials recycled, m ³	NIL	273	TKO 137
Non-inert C&D materials disposed, m ³ *	NIL	315	N/A
Non-inert C&D materials recycled, kg	NIL	NIL	N/A
Chemical waste disposed, L	NIL	NIL	N/A
Marine Sediment (Type 1 – Open Sea Disposal), m ³ *	NIL (Bulk volume)	31759 (Bulk volume)	South of Cheung Chau
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal) , m ³ *	NIL (Bulk volume)	108542 (Bulk volume)	South of The Brothers (from 27 Aug 2013 onwards)

Table 4.22 Details of Waste Disposal for Contract no. HK/2012/08

*Remarks: The details of waste disposal is recorded in calendar month period.



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4.4.10 No Marine Sediment (Type 1 – Open Sea Disposal) disposed in this reporting quarter. No marine sediment Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal generated disposed in this reporting quarter.

Contract no. HY/2010/08 - Central - Wan Chai Bypass (CWB) - Tunnel (Slip Road 8)

4.4.11 Inert C&D waste was disposed in this reporting month, while no non-inert C&D waste disposed in this reporting period. Details of the waste flow table are summarized in *Table* 4.23

Waste Type	Quantity this quarter	Cumulative Quantity- to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m ³	17557.4	44406.6	TM38
	NIL	19739.4	TKO137
Inert C&D materials recycled, m ³	NIL	NIL	N/A
Non-inert C&D materials disposed, m ³	NIL	NIL	N/A
Non-inert C&D materials recycled, kg	NIL	NIL	N/A
Chemical waste disposed, L	NIL	NIL	N/A
Marine Sediment (Type 1 – Open Sea Disposal)	NIL	62559.4	South Cheung Chau
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine disposal)	NIL	28309.2	Brothers Island
Marine Sediment (Type 3 – Special Treatment)	NIL	7780	Brothers Island

Table 4.23 Details of Waste	Disnosal for	Contract no HV/2	010/08
TADIE 4.25 Delaiis OI Waste I	Dispusai iur	CONTRACT 110. H 1/2	JIU/UO

4.4.12 There was no Marine Sediment (Type 1 – Open Sea Disposal), Marine Sediment (Type 3 – Special Treatment) and marine sediment Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal disposed in this reporting quarter.



5. COMPLIANCE AUDIT

5.0.1. The Event Action Plan for construction noise, air quality and water quality are presented in *Appendix 5.1*.

5.1. Noise Monitoring

- 5.1.1 No action or limit level exceedance was recorded in March reporting month.
- 5.1.2 Three limit level exceedances were recorded at M6 HK Baptist Church Henrietta Secondary School on 03, 10 and 26 April 2017 in April reporting month. The exceedances were concluded as non-Project related.
- 5.1.3 One limit level exceedance was recorded at M5b City Garden on 18 April 2017 in April reporting month. The exceedance was concluded as Project related.
- 5.1.4 Two limit level exceedances were recorded at M1a Footbridge for Ex-Harbour Road Sports Centre on 16 and 25 May 2017 in May reporting month. The exceedances were concluded as non-Project related.
- 5.1.5 Noise monitoring results measured in this reporting period are reviewed and summarized. Details of graphical presentation can be referred in *Appendix 4.1.*

5.2. Air Monitoring

- 5.2.1 One 24hr TSP limit level exceedance was recorded at CMA5b Pedestrian Plaza on 2 March 2017 in March reporting month. The exceedance was concluded to be non-Project related.
- 5.2.2 Two 1hr TSP action level and one 1hr limit level exceedances were recorded at CMA5b Pedestrian Plaza on 3 March 2017 in March reporting month. The exceedances were concluded to be non-Project related.
- 5.2.3 One 1hr TSP limit level exceedance was recorded at CMA4a –Society for the Prevention of Cruelty to Animals on 3 March 2017 in March reporting month. The exceedance was concluded to be non-Project related.
- 5.2.4 One 1hr TSP limit level exceedance was recorded at CMA1b Oil Street Site Office on 27 March 2017 in March reporting month. The exceedance concluded to be non-Project related.
- 5.2.5 No action or limit level exceedance was recorded in April reporting month.
- 5.2.6 No action or limit level exceedance was recorded in May reporting month.

5.3. Water Quality Monitoring

5.3.1 There were 1 action level of turbidity exceedances and 2 limit level of suspended solid exceedances recorded in March reporting month. Investigation found that the 1 action level of



turbidity and 1 limit level of suspended solid exceedances recorded at monitoring station P1 on 15 March 2017 in March reporting month were concluded as related to Project works. Investigation found that 1 limit level of suspended solid exceedance at monitoring station WSD19 recorded in March reporting month was not related to Project works

- 5.3.2 No action or limit level exceedance was recorded in April reporting month.
- 5.3.3 There were two limit level of turbidity exceedances and one limit level of suspended solid exceedance were recorded in May reporting month. Investigation found that the turbidity and suspended solid exceedances were not related to Project works.
- 5.3.4 There was no action and limit level exceedance recorded for enhanced dissolved oxygen monitoring in this reporting quarter.

5.4. Site Audit

5.5.1. There was no non-compliance from the site audits in the reporting period. During environmental site inspections conducted during the reporting period, minor deficiencies were noted.

5.5. Review of the Reasons for and the Implications of Non-compliance

- 5.5.1 There were one action level of turbidity exceedance and one limit level of suspended solid exceedance were recorded at P1 on 15 March 2017. Earth works was conducted at the concerned location at Expo Drive West during the monitoring period on 15 March 2017 and contaminated effluent was observed discharging from the construction site water treatment unit into Victoria Harbour within HKCEC2E area during monitoring sampling and affecting the water quality at the concerned monitoring station. It was further confirmed on-site that the water treatment unit maintained under Contract HK/2012/08 located at the concerned upstream location was ineffective in particle settling. As such, it was considered that the turbidity and suspended solid exceedances were related to Project works.
- 5.5.2 One project related limit level exceedance was recorded at M5b City Garden on 18 April 2017 in the reporting month. The exceedance was concluded as related to the breaking works at marine pier under Contract HY/2009/19.

5.6. Summary of action taken in the event of and follow-up on non-compliance

5.6.1 Immediate repeat in-situ measurement has confirmed the exceedance recorded at P1 on 15 March 2016. The Contractor of HK/2012/08 was immediately advised to take immediate action to rectify the defects observed. Rectification measures including addition of flocculant to enhance the particulates settling rate within the water treatment unit was implemented on 15 March 2017. No further turbidity exceedance was recorded during additional monitoring conducted on 16 March 2017 and no further contaminated discharge from the outlet point was observed during monitoring. Also, no further suspended solid exceedance was recorded on the subsequent monitoring on 17 March 2017.



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5.6.2 Starter bar fixing works and breaking works at marine pier under Contract HY/2009/19 was conducted during the measurement on 18 April 2017, it was observed that breaking operation was the major noise contribution during measurement. It is concluded that the exceedance was Project related. The contractor was requested to submit a proposal for remediation measures following the Event and Action Plan. Actions from the remediation plan including i) Closing the opening of the temporary noise barrier ii) provide physical wrapping of breaker to dampen noise emission and iii) conduct breaking works intermittently were implemented by the Contractor and no further exceedance was recorded upon implementation of the remedial actions.



6. COMPLAINTS, NOTIFICATION OF SUMMONS AND PROSECUTION

- 6.0.1. No environmental complaint was received in this reporting quarter.
- 6.0.2. The details of cumulative complaint log and summary of complaints are presented in *Appendix 6.1.*
- 6.0.3. Cumulative statistic on complaints and successful prosecutions are summarized in *Table 6.1* and *Table 6.2* respectively.

Table 0.1 Outhulative Statistics on Complaints	
Reporting Period	No. of Complaints
Commencement works (Mar 2010) to last reporting quarter	47
March 2017 – May 2017	0
Project-to-Date	47

Table 6.1 Cumulative Statistics on Complaints

Environmental Parameters	Cumulative No. Brought Forward	No. of Successful Prosecutions this quarter (Offence Date)	Cumulative No. Project-to-Date
Air	-	0	0
Noise	-	0	0
Water	-	0	0
Waste	-	0	0
Total	-	0	0



7. CUMULATIVE CONSTRUCTION IMPACT DUE TO THE CONCURRENT PROJECTS

- 7.0.1. According to Condition 3.4 of the EP-356/2009, this section addresses the relevant cumulative construction impact due to the concurrent activities of the current projects including the Central Reclamation Phase III, Central-Wanchai Bypass and Island Eastern Corridor Link projects.
- 7.0.2. According to the Final EM&A Report of Central Reclamation Phase III (CRIII) for Contract HK 12/02, the major construction activities were completed by end of January 2014 and no construction activities were undertaken thereafter and the water quality monitoring was completed in October 2011 and no Project-related exceedance was recorded for air and noise monitoring. It can be concluded that cumulative construction impact due to the concurrent activities of the current projects with the Central Reclamation Phase III (CRIII) was insignificant.
- 7.0.3. According to the construction programme of Central-Wanchai Bypass at Wanchai West at the Central Reclamation Phase III area include road and drain works, backfilling works and reinstatement of Culvert and Cooling mains were performed in May 2017 reporting month. As no project related exceedance were recorded during the reporting period, cumulative construction impact due to the concurrent activities of the current projects with the Central Reclamation Phase III (CRIII) was considered as insignificant.
- 7.0.4. According to the construction programme of Wan Chai Development Phase II, Central-Wan Chai Bypass and Island Eastern Corridor Link projects, the major construction activities under Wan Chai Development Phase II were, road and drains construction, tunnel construction, backfilling works, road and drains works at Wan Chai West and Wan Chai East. The major construction activities under Central-Wan Chai Bypass and Island Eastern Corridor Link Projects were drainage works and ventilation building construction at Central; backfilling and temporary reclamation removal works at Causeway Bay, road works and side wall construction at Victoria Park; bridge construction, piling works and tunnel works at North Point area in the reporting month. In addition, other non-Wan Chai Development Phase II, Central-Wan Chai Bypass and Island Eastern at Wan Chai Bypass and Island Eastern Corridor Link projects was observed undertaken at Wan Chai North and North Point area.
- 7.0.5. No significant air impact from construction activities was anticipated in the reporting month. Besides, no project related exceedance was recorded during the air and noise environmental monitoring events in the reporting month. Thus, it is evaluated that the cumulative construction impact from the concurrent projects including Central Reclamation Phase III (CRIII), Wan Chai Development Phase II (WDII), Central-WanChai Bypass (CWB), Island Eastern Corridor Link projects (IECL) was insignificant.



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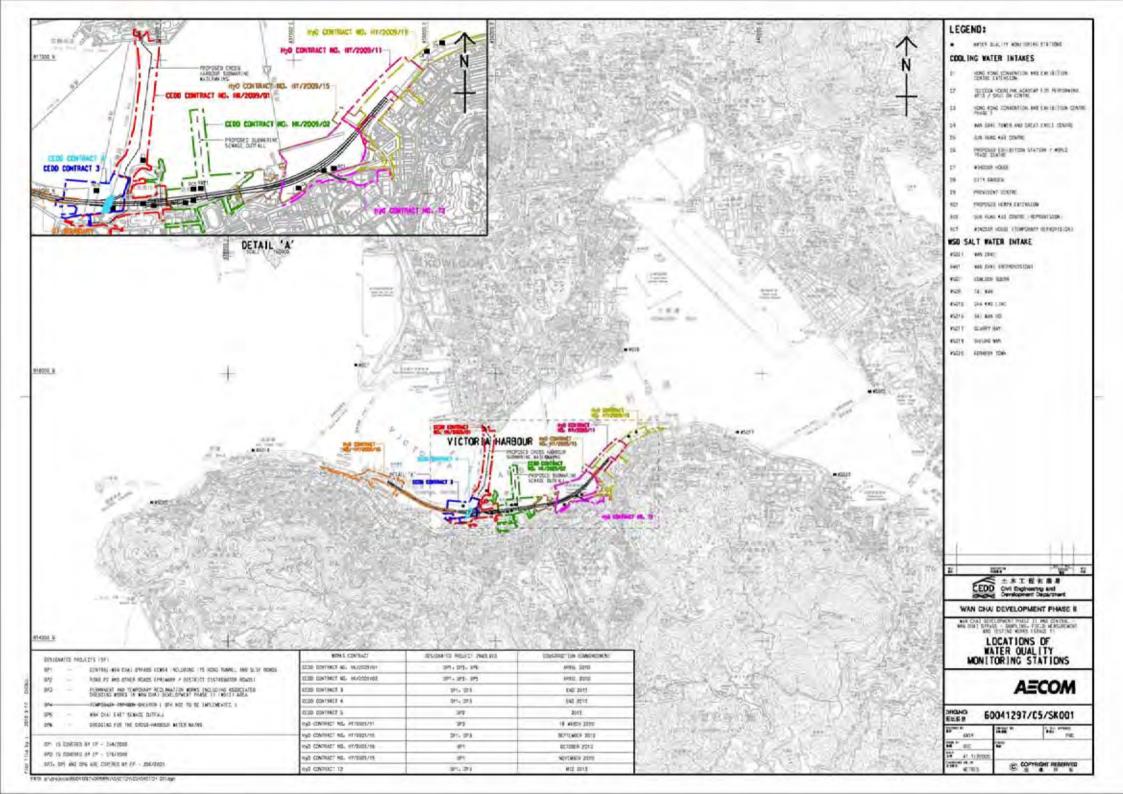
8. CONCLUSION

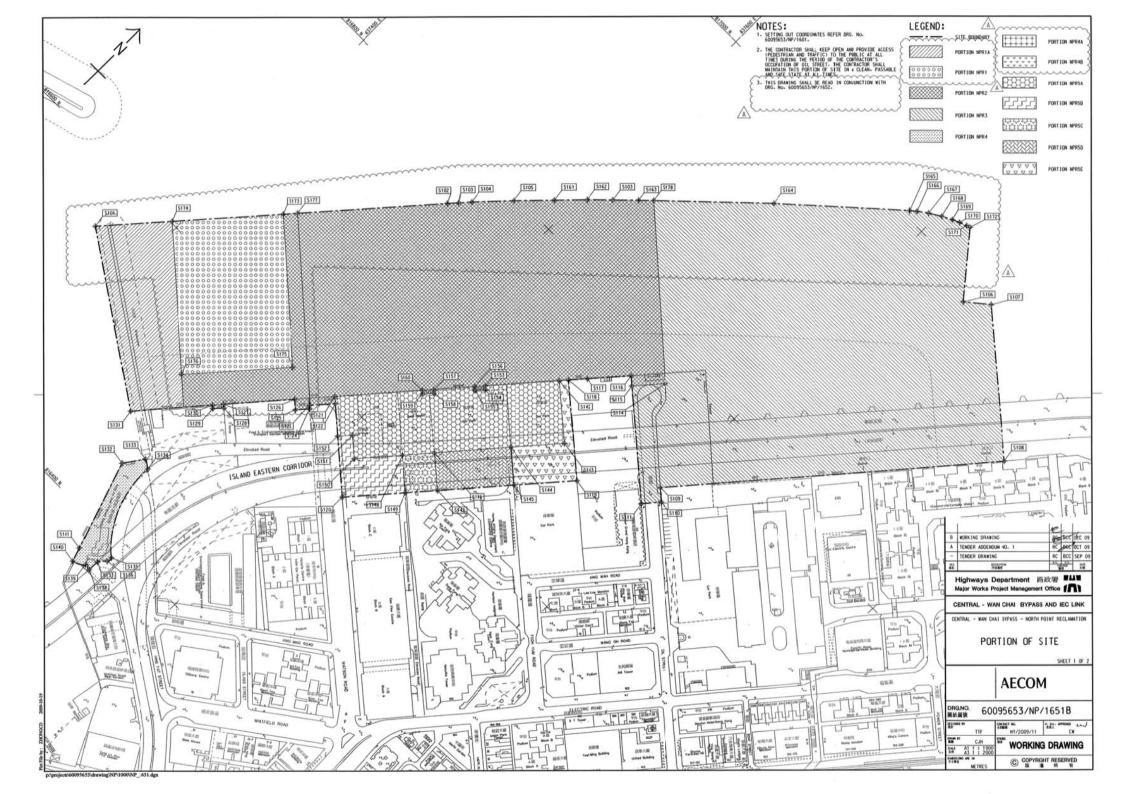
- 8.0.1. The EM&A programme was carried out in accordance with the EM&A Manual requirements, minor alterations to the programme proposed were made in response to changing circumstances.
- 8.0.2. There were one action level of turbidity exceedance and one limit level of suspended solid exceedance were recorded at P1 on 15 March 2017 and were concluded as related to Project works. Rectification measures including addition of flocculant to enhance the particulates settling rate within the water treatment unit was implemented on 15 March 2017. No further turbidity exceedance was recorded during additional monitoring conducted on 16 March 2017 and no further contaminated discharge from the outlet point was observed during monitoring. Also, no further suspended solid exceedance was recorded on the subsequent monitoring on 17 March 2017.
- 8.0.3. One project related limit level exceedance was recorded at M5b City Garden on 18 April 2017 in the reporting month. Actions from the remediation plan including i) Closing the opening of the temporary noise barrier ii) provide physical wrapping of breaker to dampen noise emission and iii) conduct breaking works intermittently were implemented by the Contractor and no further exceedance was recorded upon implementation of the remedial actions.
- 8.0.4. No prosecution was received in this reporting quarter.
- 8.0.5. The construction programmes of individual contracts are provided in *Appendix 8.1*.

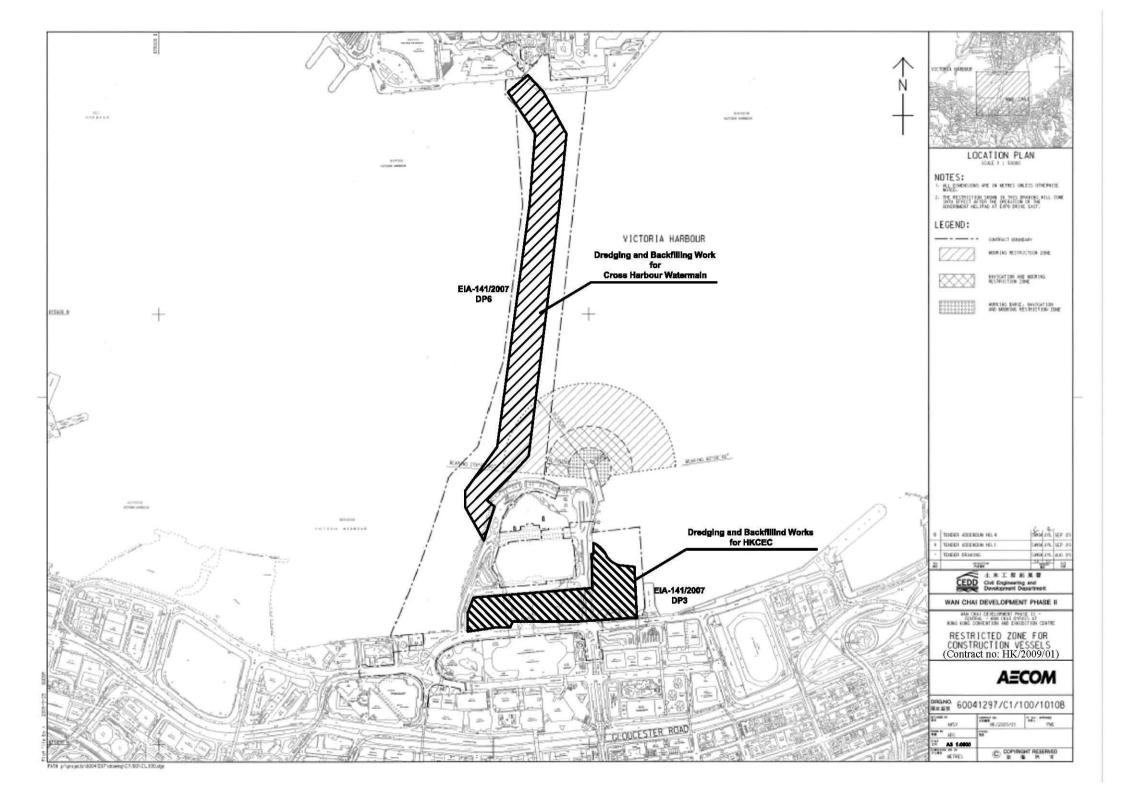


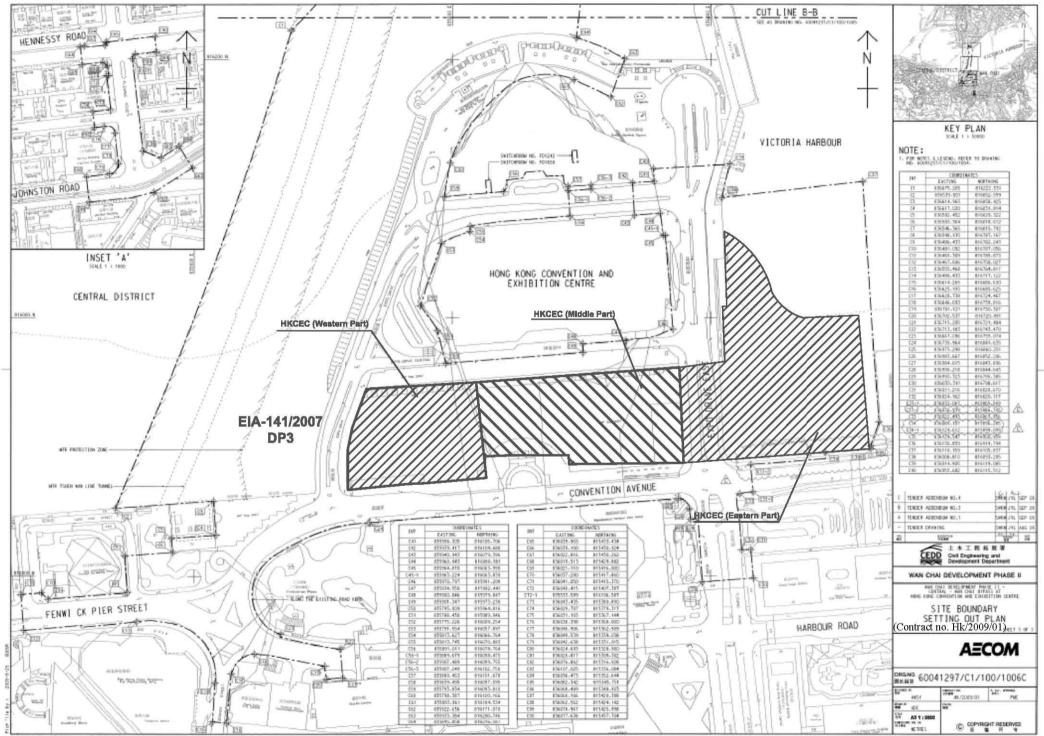
Figure 2.1

Project Layout

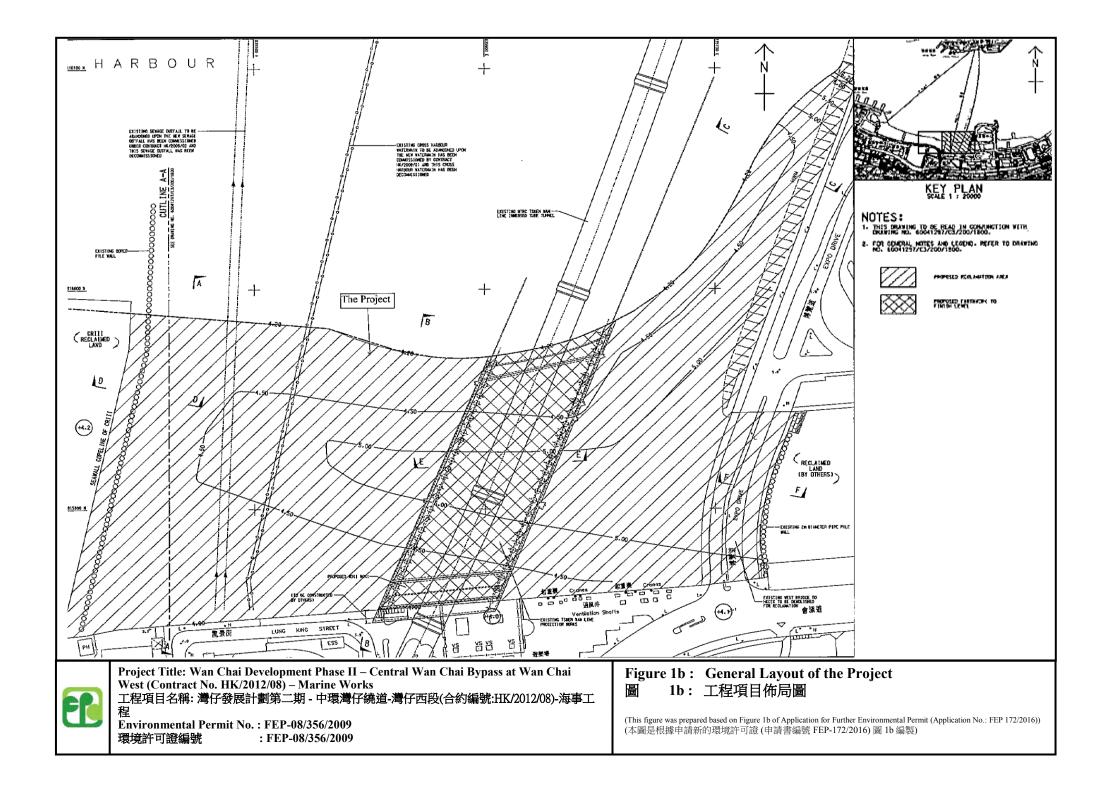


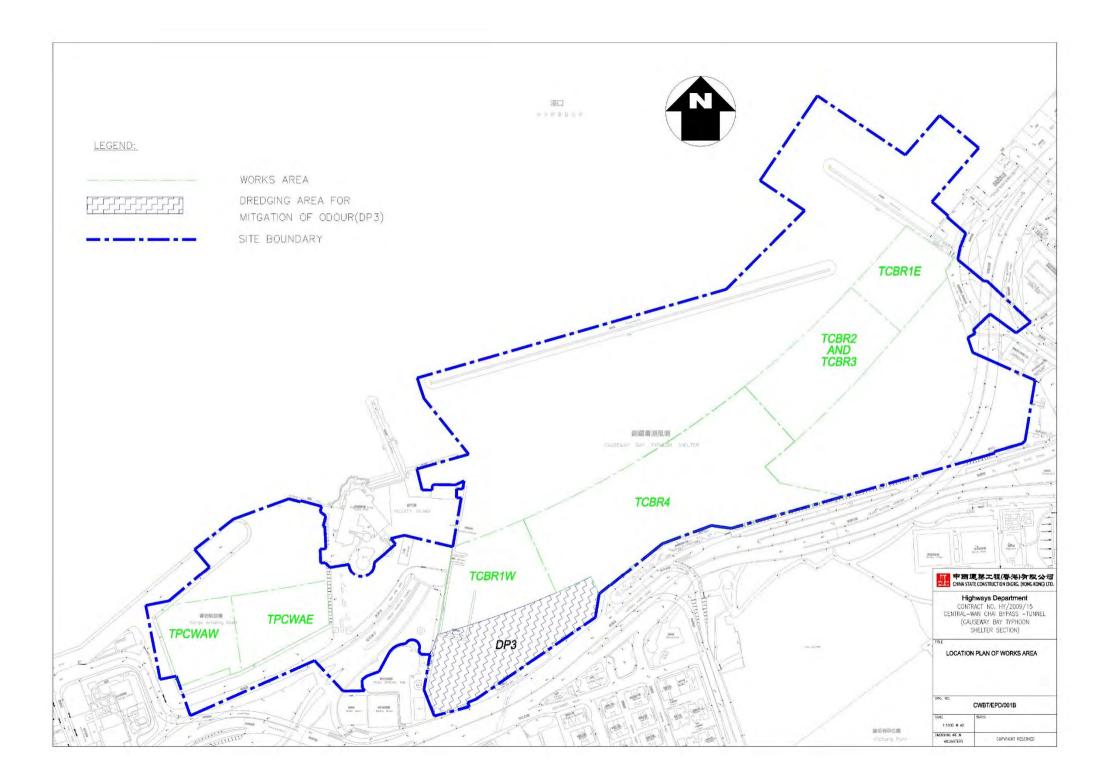


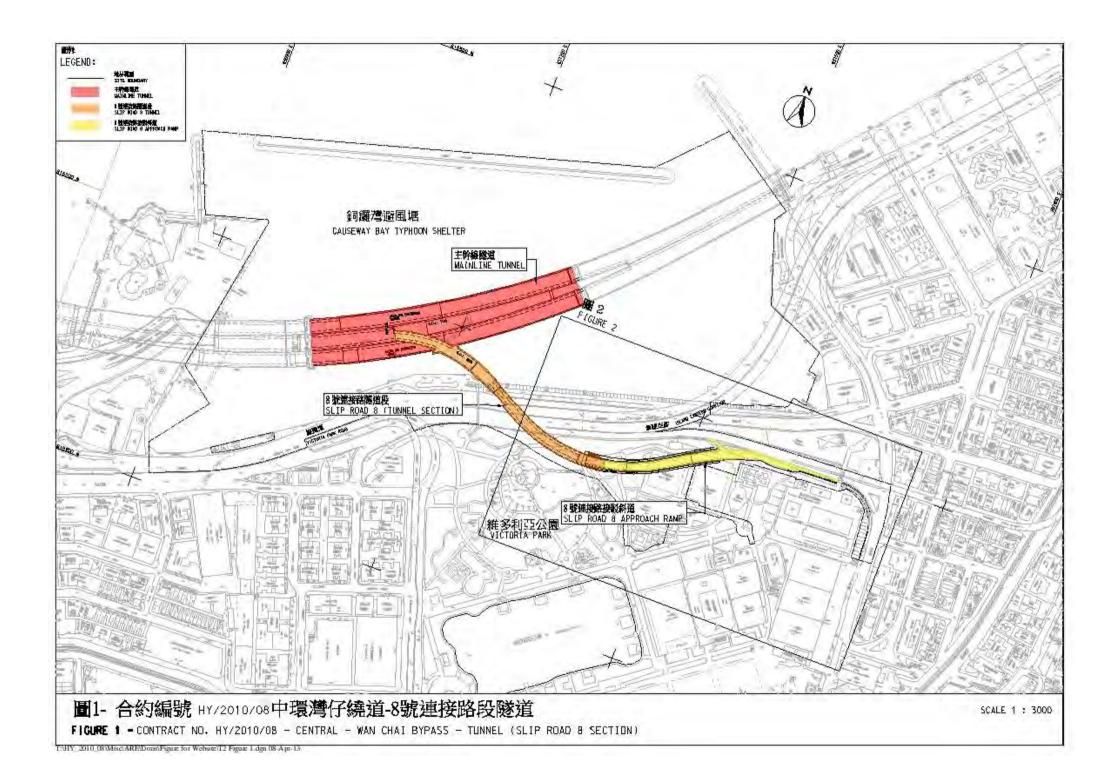


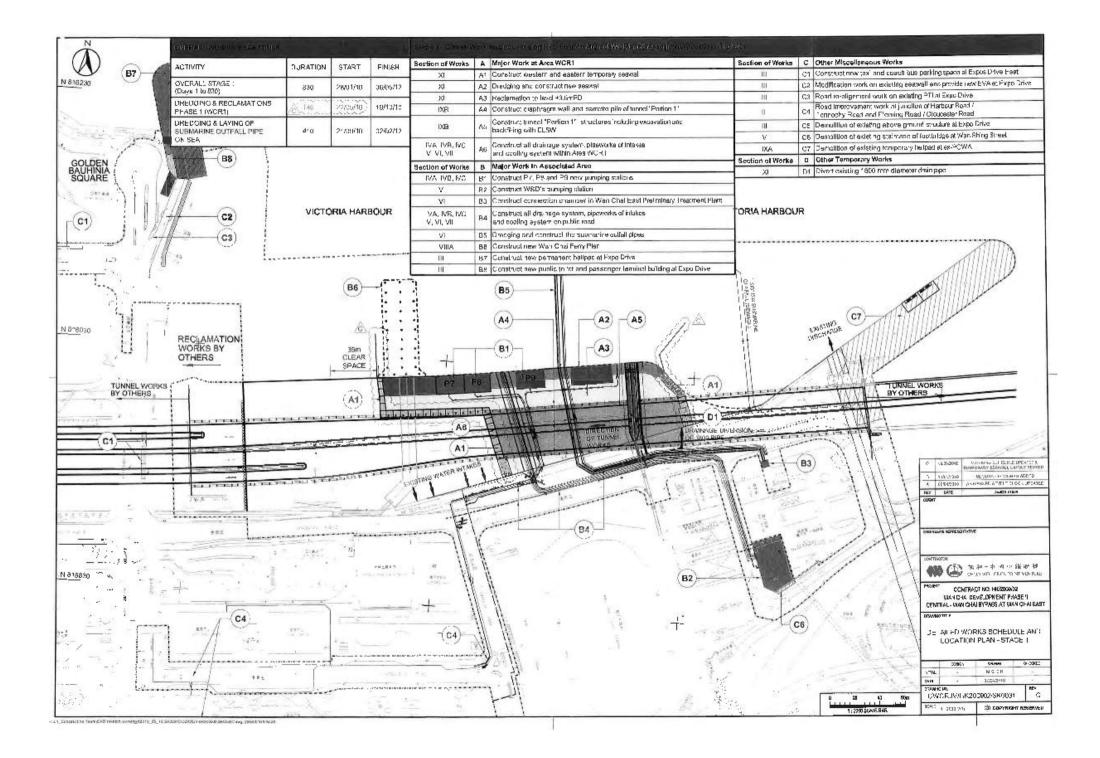


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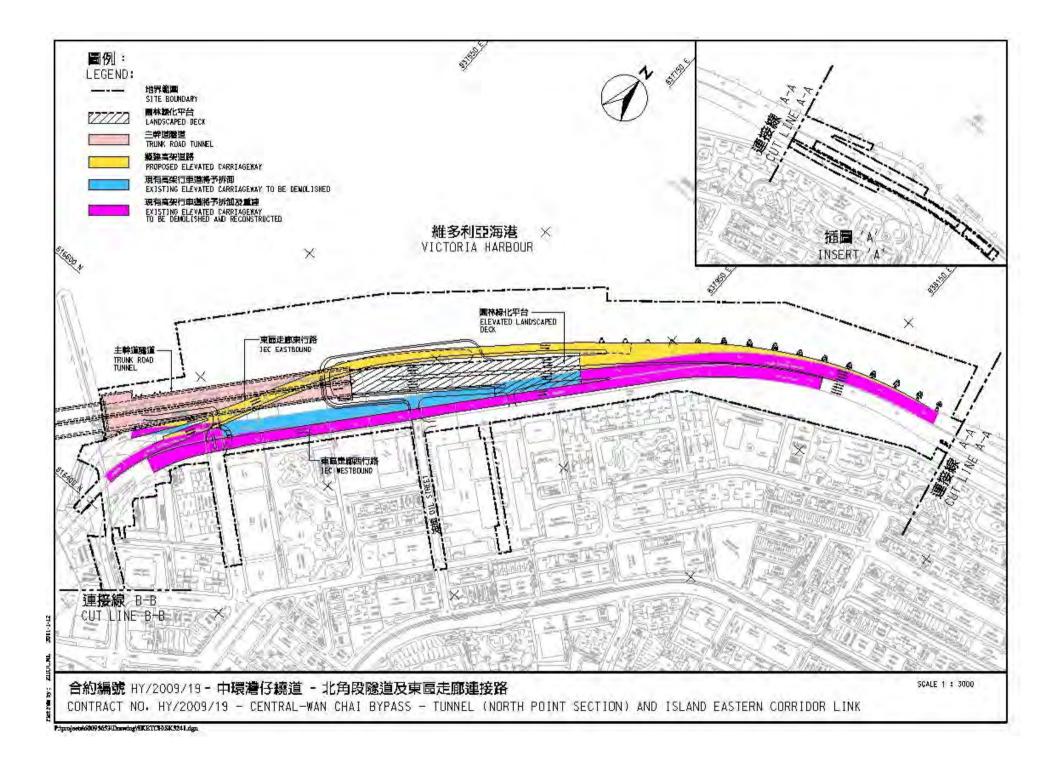




Figure 2.2

Project Organization Chart



Project Organization Chart

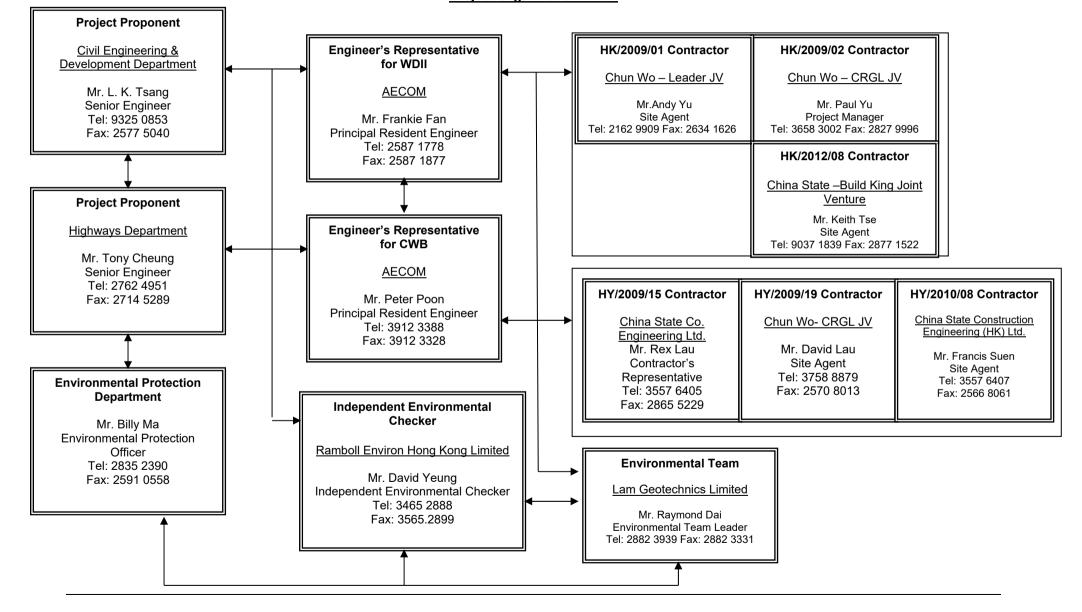
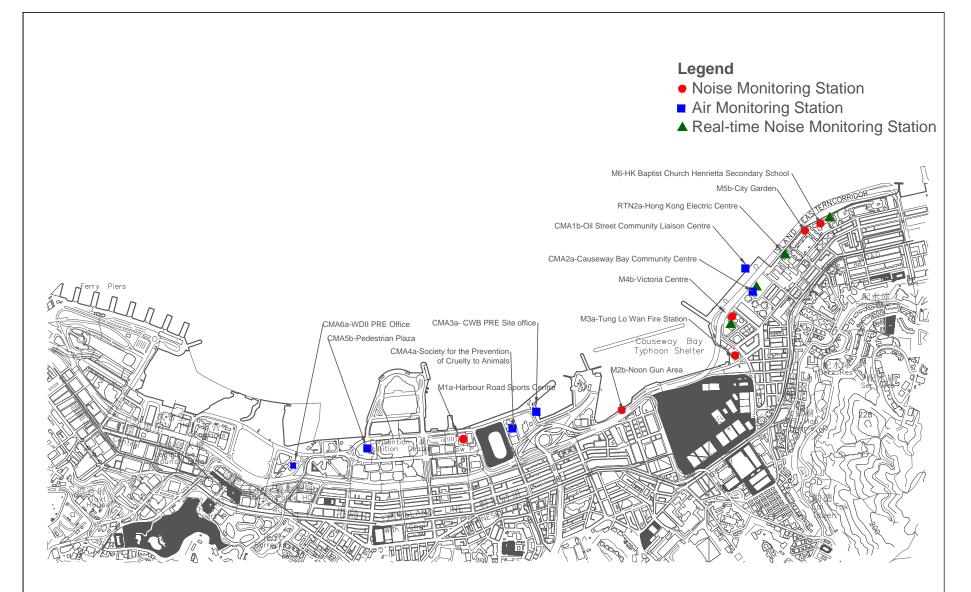




Figure 3.1

Locations of Monitoring Stations



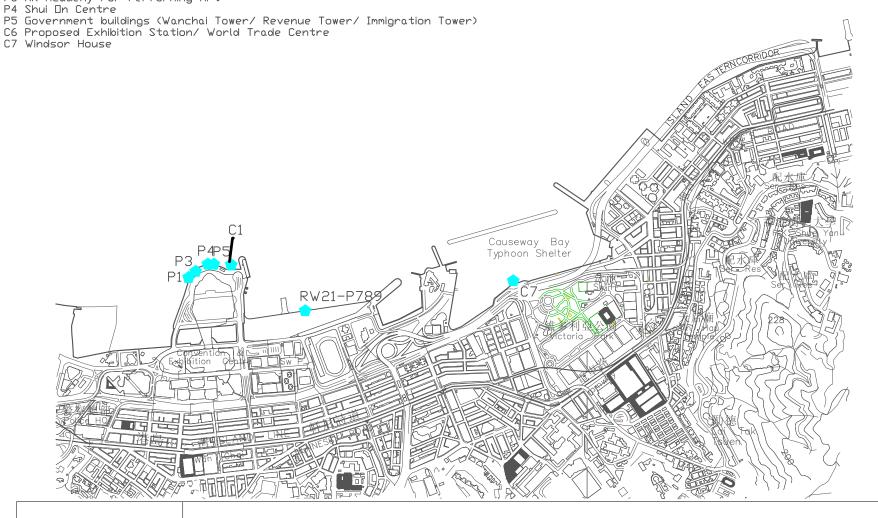
LOCATIONS OF AIR QUALITY AND NOISE MONITORING STATIONS



- Vater Quality Monitoring Stations RW21-P789 (Wanchai WSD intake/ Great Eagle Centre/ China Resources Centre/ Sun Hung Kai Centre)
- C1 Hong Kong Convention and Exhibition Centre Extension P1 Hong Kong Convention and Exhibition Centre Phase 1
- P3 HK Academy For Performing Art
- P4 Shui 🛛 n Centre

- C7 Windsor House

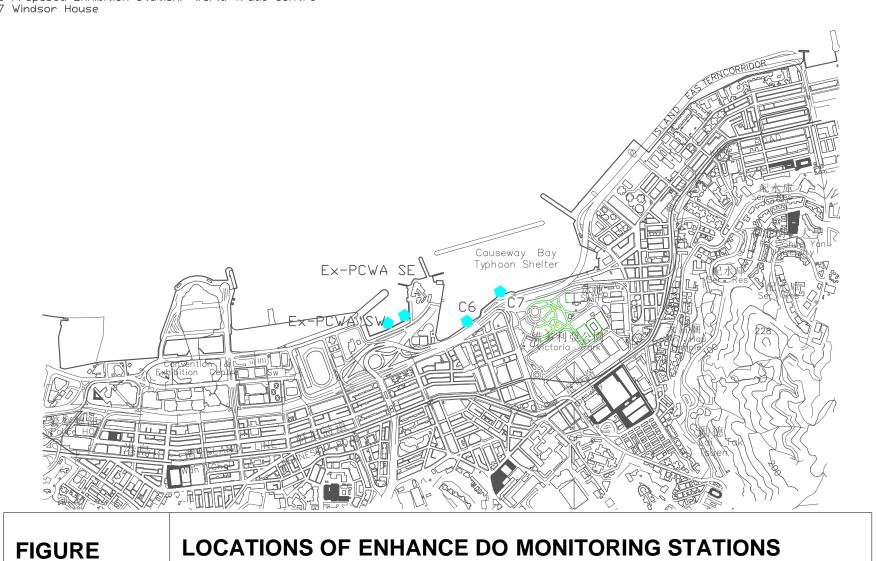
FIGURE

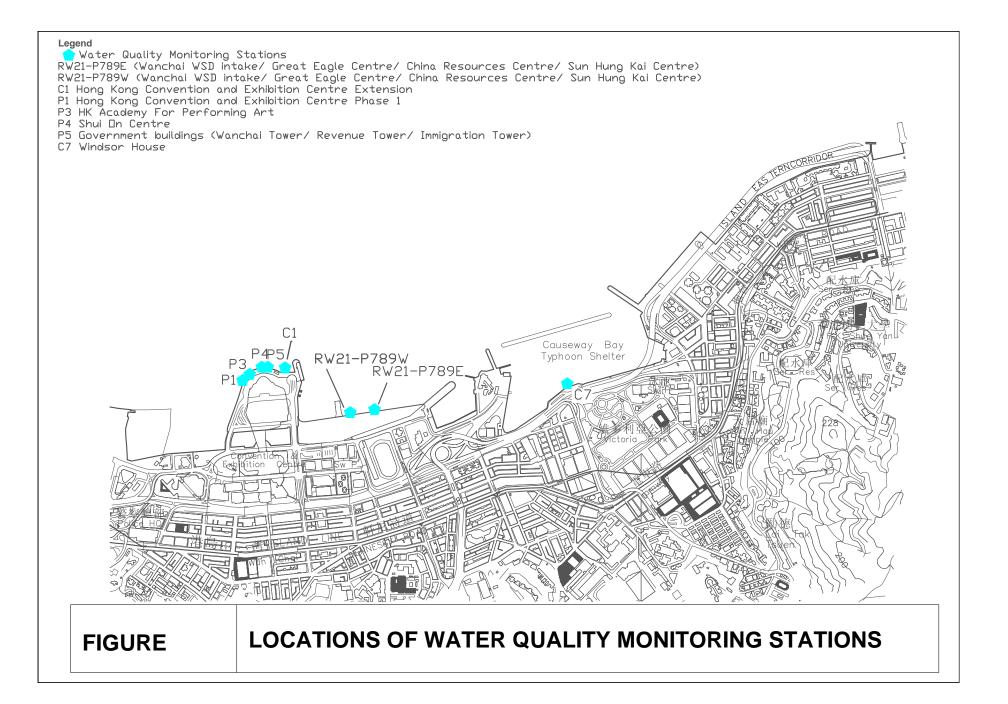


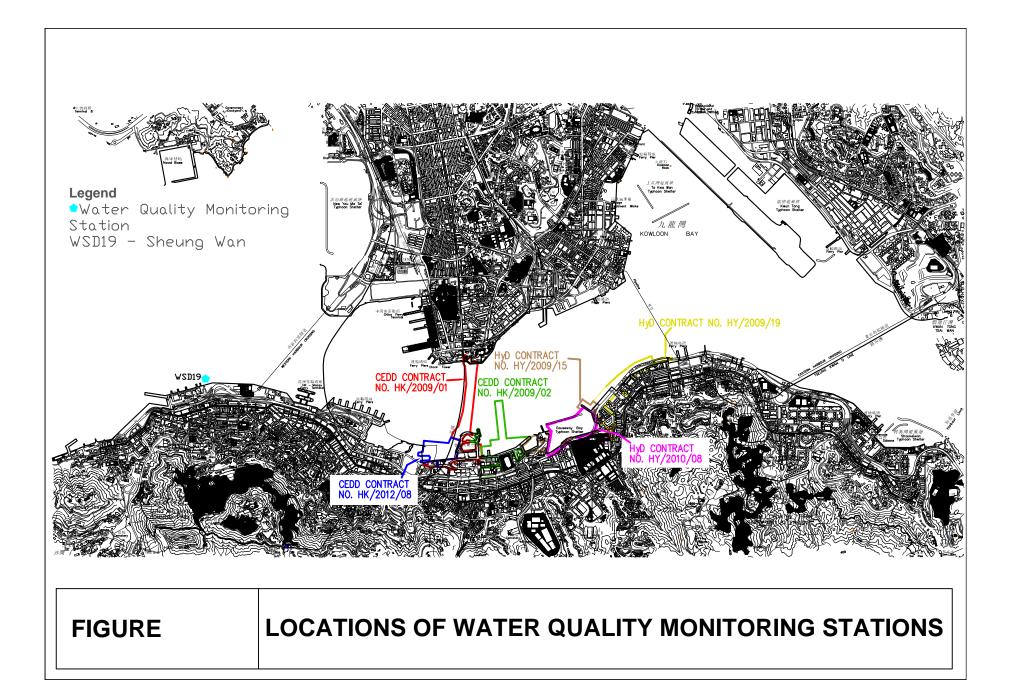
LOCATIONS OF WATER QUALITY MONITORING STATIONS

Legend

Enhance DD Monitoring Stations
 Ex-PCWA SE Ex-Public Cargo Wanchai Area SouthEast Station
 Ex-PCWA SW Ex-Public Cargo Wanchai Area Southwest Station
 C6 Proposed Exhibition Station/ World Trade Centre
 C7 Windsor House









Appendix 2.1

Environmental Mitigation Implementation Schedule

Environmental Mitigation Implementation Schedule

Implementation Schedule for Air Quality Control

EIA Ref	Environmental Protection Measures / Mitigation Measures	es Location / Timing Implementatio	Implementation	Implementation Stages*				Relevant Legislation
			Agent	Des	С	0	Dec	and Guidelines
Constructio	on Phase	•						
For the Wh								
\$3.6.5	Four times a day watering of the work site with active operations.	Work site / during construction	Contractor		V			EIAO-TM
S3.8.1	 Implementation of dust suppression measures stipulated in Air Pollution Control (Construction Dust) Regulation. The following mitigation measures, good site practices and a comprehensive dust monitoring and audit programme are recommended to minimise cumulative dust impacts. Strictly limit the truck speed on site to below 10 km per hour and water spraying to keep the haul roads in wet condition; Watering during excavation and material handling; Provision of vehicle wheel and body washing facilities at the exit points of the site, combined with cleaning of public roads where necessary; and Tarpaulin covering of all dusty vehicle loads transported to, from and between site locations. 	Work site / during construction	Contractor		V			

Appendix 2.1

Contract No. HK/2015/01

Wanchai Development Phase II and Central Wanchai Bypass Sampling, Field Measurement and testing Works (Stage3)

Quarterly EM&A Report

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation		Implementation Stages*			Relevant Legislation
			Agent	Des	С	0	Dec	and Guidelines
\$3.5.6	For the dredging activities carried out in the vicinity of Police Officers' Club, the dredging operation will be restricted to only 1 small close grab dredger to minimise the odour impact during the dredging activity. The dredging rate should be reduced as much as practicable for the area in close proximity to the Police Officers' Club. The sediments contain highly contaminated mud which may be disposed with the use of geosynthetic containers (details shall refer to Section 6), grab dredger has to be used for filling up the geosynthetic containers on barges. the dredging rate for the removal of the sediments at the south-west corner of the typhoon shelter shall be slowed down or restricted to specific non-popular hours in weekdays when it is necessary during construction.	Corner of CBTS/implementation of harbour-front enhancement	CEDD <u>1</u>		~			EIAO-TM
\$3.8.8	Carry out dredging at the corner of CBTS to remove the sediment and clean the slime attached on the CBTS shoreline seawall	Corner of CBTS & CBTS shoreline seawall/implementation of harbour-front enhancement	CEDD ²		V			EIAO-TM
Operation I		1	I	1	1	1	1	1
For the Who	ole Project							

¹ CEDD will identify an implementation agent.

² CEDD will identify an implementation agent.

Contract No. HK/2015/01 Wanchai Development Phase II and Central Wanchai Bypass Sampling, Field Measurement and testing Works (Stage3)

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	nplem Sta	entati ges*	on	Relevant Legislation
		Liocation, Thining	Agent	Des	С	0	Dec	and Guidelines
\$3.10.2	Monthly (from July to September) monitoring of odour impacts, for a period of 5 years, is proposed during the operational phase of the Project to ascertain the effectiveness of the Enhancement Package over time, and to monitor any on- going odour impacts at the ASRs.	Planned ASRs (CBTS Breakwater)/First 5-year period of operation phase	CEDD ¹			V		EIAO-TM
For DP1 -	CWB (Within the Project Boundary)							
S3.6.53 – S3.6.54	The design parameters of the East and Central Ventilation Buildings as set in Tables 3.10 and 3.11	East and Central Ventilation Buildings / During operation of the Trunk Road	HyD			V		
\$3.10.2	Air quality monitoring for the operation performance of the East Ventilation Building and associated East Vent Shaft will be conducted.	East Vent Shaft / During operation of the East Ventilation Building and associated East Vent Shaft	HyD			V		EIAO-TM

- Des - Design, C - Construction, O - Operation, and Dec - Decommissioning

Appendix 2.1

Contract No. HK/2015/01

Wanchai Development Phase II and Central Wanchai Bypass Sampling, Field Measurement and testing Works (Stage3)

Quarterly EM&A Report

Table A13.2 Implementation Schedule for Noise Control

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	T	entati ges* O	on Dec	Relevant Legislation and Guidelines
Constructio							

Contract No. HK/2015/01 Wanchai Development Phase II and Central Wanchai Bypass Sampling, Field Measurement and testing Works (Stage3)

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	ıplem Staş	entati ges*	on	Relevant Legislatio
	Environmental Protection Measures / Mitigation Measures	Location / Thining	Agent	Des	С	0	Dec	and Guidelines
S4.9.4	 Good Site Practice: Only well-maintained plant shall be operated on-site and plant shall be serviced regularly during the construction program. 	Work Sites / During Construction	Contractor		V			EIAO-TM, NCO
	 Silencers or mufflers on construction equipment shall be utilized and shall be properly maintained during the construction program. 							
	• Mobile plant, if any, shall be sited as far away from NSRs as possible.							
	• Machines and plant (such as trucks) that may be in intermittent use shall be shut down between works periods or shall be throttled down to a minimum.							
	 Plant known to emit noise strongly in one direction shall, wherever possible, be orientated so that the noise is directed away from the nearby NSRs. 							
	• Material stockpiles and other structures shall be effectively utilized, wherever practicable, in screening noise from on-site construction activities.							
or DP1 -	CWB (Within the Project Boundary)							

Appendix 2.1

Quarterly EM&A Report

Contract No. HK/2015/01

Wanchai Development Phase II and Central Wanchai Bypass Sampling, Field Measurement and testing Works (Stage3)

Implementation Implementation Relevant Legislation Stages* EIA Ref Location / Timing **Environmental Protection Measures / Mitigation Measures** and Guidelines Agent Des С 0 Dec EIAO-TM, NCO S4.8.3 -Use of quiet powered mechanical equipment, movable noise Work Sites / During Contractor S4.8.5 barrier and temporary noise barrier for the following tasks: Construction Slip road 8 tunnel . Construction of diaphragm wall and substructures of the tunnel approach ramp Excavation Construction of slabs . Backfill . Demolition and construction of substructures for the IEC . Demolition works of existing piers and crossheads of the marine section of the existing IEC Use of PME grouping for the following tasks: At-grade road construction Substructure for IECL connection For DP2 - WDII Major Roads (Road P2) Use of quiet powered mechanical equipment, movable noise Work Sites / During EIAO-TM, NCO S4.8.3 -Contractor $\sqrt{}$ S4.8.4 barrier and temporary noise barrier for the following tasks: Construction Temporary road diversion . Resurfacing . At-grade roadwork For DP3 - Reclamation Works S4.8.3 -Use of quiet powered mechanical equipment for the following Work Sites / During Contractor EIAO-TM, NCO $\sqrt{}$ S4.8.4 task: Construction • Filling behind seawall • Seawall construction

Appendix 2.1

Contract No. HK/2015/01 Wanchai Development Phase II and Central Wanchai Bypass Sampling, Field Measurement and testing Works (Stage3)

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In		Relevant Legislation		
	Environmental Protection Measures / Mitigation Measures		Agent	Des	С	0	Dec	and Guidelines
For DP5 –	Wan Chai East Sewage Outfall							
S4.8.3 – S4.8.4	Use of quiet powered mechanical equipment for the following tasks: • Submarine pipelines (marine section)	Work Sites / During Construction	Contractor		V			EIAO-TM, NCO
	Use of quiet powered mechanical equipment and movable noise barrier for the following tasks:Installation of a new pipeline (land section)							
For DP6 -	Cross-Harbour Water Mains from Wan Chai to Tsim Sha Tsui							
S4.8.3 – S4.8.4	Use of quiet powered mechanical equipment for the following tasks: • Submarine pipelines (marine section) •	Work Sites / During Construction	Contractor		V			EIAO-TM, NCO

Appendix 2.1

Contract No. HK/2015/01 Wanchai Development Phase II and Central Wanchai Bypass Sampling, Field Measurement and testing Works (Stage3)

Quarterly EM&A Report

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Implementation Stages*				Relevant Legislation
		0	Agent	Des	С	0	Dec	and Guidelines
Operation 1	Phase							
For DP1 - 0	CWB (Within the Project Boundary)							

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	n Implementation Stages*			Stages* Relevant Le		
		Liocation, Thining	Agent	Des	С	0	Dec	and Guidelines	
S4.8.14 – S4.8.18	 For Existing NSRs about 235m length of noise semi-enclosure with transparent panel covering the westbound slip road from the IEC about 230m length of noise semi-enclosure with transparent panel covering the main carriageways (eastbound and westbound) of the CWB and IEC about 135m length of 5.5m high cantilevered noise barrier with 3m cantilever inclined at 45° with transparent panel on the eastbound slip road to the IEC about 95m length of 5.5m high cantilevered noise barrier with 1m cantilever inclined at 45° with transparent panel on the eastbound slip road to the IEC about 350m length of 3.5m high vertical noise barrier with 1m cantilever inclined at 45° with transparent panel on the eastbound slip road to the IEC about 350m length of 3.5m high vertical noise barrier with transparent panel on the eastbound slip road to the IEC about 350m length of 7.5m high cantilevered noise barrier with transparent panel on the eastbound slip road to the IEC about 350m length of 3.5m high vertical noise barrier with transparent panel on the eastbound slip road to the IEC low noise road surfacing for the trunk road (except tunnel section and beneath the landscaped deck at the eastern portal area) with speed limit of 70 km/hour For Future/Planned NSRs about 265m length of noise semi-enclosure with transparent panel covering the westbound slip road from the IEC 	Near North Point / Before commencement of operation of road project In between the Electric Centre (next to City Garden) and CDA(1) site / Before occupation of Planned NSRs in CDA and CDA(1) sites.	HyD	Des √	C √		Dec	EIAO-TM	

Appendix 2.1

Contract No. HK/2015/01

Wanchai Development Phase II and Central Wanchai Bypass Sampling, Field Measurement and testing Works (Stage3)

Quarterly EM&A Report

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Implementation Stages*		Relevant Legislation		
	e e e e e e e e e e e e e e e e e e e		Agent	Des	С	0	Dec	and Guidelines
	• The openable windows of the temple, if any, should be	Near Causeway Bay Fire	Project					
	orientated so as to avoid direct line of sight to the existing	Station / During detailed	Proponent for					
	Victoria Park Road as far as practicable.	design of the re-	the					
		provisioned Tin Hau	re-provisioned					
		Temple	Tin Hau Temple					

* Des - Design, C - Construction, O - Operation, and Dec - Decommissioning

* Only the steel frame for this section of noise semi-enclosure would be erected in advance during the construction of the westbound slip road.

Table A13.3 Implementation Schedule for Water Quality Control

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location /	Implementation	Im	•	entati ges*	on	Relevant Legislation
		Timing	Agent	Des	С	0	Dec	and Guidelines
Constructio	on Phase							
For DP3 – Boundary)	Reclamation Works, DP5 (Wan Chai East Sewage Outfall), DP6 (Cross-Harbo	our Water Mains	from Wan Chai to 1	sim Sha	a Tsu	i), DP	1 – CW	B (within the Project
\$5.8	A phased reclamation approach is planned for the WDII. Containment of fill within each of the reclamation phases by seawalls is proposed, with the seawall constructed first (above high water mark) with filling carried out behind the completed seawalls. Any gaps that may need to be provided for marine access will be shielded by silt curtains to control sediment plume dispersion away from the site. Filling for seawall construction should be carried out behind the silt curtain	Work site / During the construction period	Contractor		V			EIAO-TM, WPCO
\$5.8	 Dredging shall be carried out by closed grab dredger for the following works: Seawall construction in all the reclamation areas; Construction of the CWB Tunnel Construction of the proposed WSD water mains; and Construction of the proposed Wan Chai East sewage outfall pipelines. 	Work site / During the construction period	Contractor		V			EIAO-TM, WPCO
S5.8, Figure 5.3	 Dredging for the Wan Chai East sewage outfall pipelines shall not be carried out concurrently with the following activities: Dredging along the proposed cross-harbour water mains; Dredging along the seawall in the Wan Chai Reclamation (WCR) zone (area between HKCEC Extension and PCWA). 	Work site / During the construction period	Contractor		V			EIAO-TM, WPCO

Appendix 2.1

Contract No. HK/2015/01

Wanchai Development Phase II and Central Wanchai Bypass Sampling, Field Measurement and testing Works (Stage3)

EIA Ref	Environmental Protection Measures / Mitigation Measures		Location /	Implementation	In		entati ges*	on	Relevant Legislation			
		occubil fricusules /	minguno	n wicubui es		Timing	Agent	Des	С	0	Dec	and Guidelines
S5.8		ind the temporary r		s within the	Causeway Bay	Work site / During the construction period	Contractor		V			EIAO-TM, WPCO
\$5.8	within the tempo impermeable barrie and extending dow the HKCEC1 cor discharge flows fr contractor will m	asure, to avoid the a rary embayment ar, suspended from a n to the seabed, wi nmences. The ba om Culvert L to the aintain this barrie	between (a floating Il be erectourrier will ne outside ar until t	CRIII and boom on the ed by the co channel t of the eml he reclamat	HKCEC1, an e water surface ntractor before he stormwater payment. The tion works in	Work site / During the construction period	Contractor		V			EIAO-TM, WPCO
S5.8, Figure 5.3	The total dredging than the maximum	ried out and the new rates in each of the production rates sta thout considering th	marine wo ted in the	rks zones sh table below.	all not be more	Work site / During the construction period	Contractor		V			EIAO-TM, WPCO
	Maximum Dredging Rate Reclamation Area m³ per day (for 16 hrs per day		Maximum Dredging Rate (m ³ per week)	F								
	Dredging along seawa	ill or breakwater		/	·						1	
	North Point Shoreline 2		6,000	375	42,000						1	
	Causeway Bay	TBW	1,500	94	10,500						1	
	Shoreline Zone	TCBR	6,000	375	42,000						1	
	PCWA Zone		5,000	313	35,000					1		

EIA Ref	Environmental Protection Measures / Mitigation Measures			Location /	Implementation	In		entati ges*	on	Relevant Legislation	
		ingunon in	icusui es		Timing	Agent	Des	С	0	Dec	and Guidelines
	Wan Chai Shoreline Zone (WCR) HKCEC Shoreline Zone (HKCEC) HKCEC Stage 1 & 3 (HKCEC) Cross Harbour Water Mains Wan Chai East Submarine Sewage Pipeline	6,000 1,500 6,000 1,500 1,500	375 94 375 94 94	42,000 10,500 42,000 10,500 10,500							
S5.8, Figure 5.3	Note: 1,500 m ³ per day shall be applied seawall of WCR1. Dredging along the seawall at WCR1 1,500m ³ per day for construction of the proximity of the WSD intake), followed b western seawall (above high water mark much as possible from further dredging ac	shall be u western seav y partial seav) to protect	undertak wall (wh wall con:	en initially at ich is in close struction at the	Work site / During the construction period	Contractor		V			EIAO-TM, WPCO
S5.8, Figure 5.3	For dredging within the Causeway Bay partially constructed to protect the nea dredging activities. For example, at To seawalls shall be constructed first (abo seawater intakes at the inner water would the remaining dredging activities along the	typhoon sh rby seawater CBR1W, the ve high wa be protected	r intakes e southen ater marl l from the	s from further rn and eastern k) so that the e impacts from	Work site / During the construction period	Contractor		V			EIAO-TM, WPCO
S5.8, Figure 5.3	Silt curtains shall be deployed around seawall dredging and seawall trench filli TCBR and NP.				Work site / During the construction period	Contractor		V			EIAO-TM, WPCO
\$5.8, Figure 5.3	Silt screens shall be applied to seawater ir as stated below: Interim Construction Location of Applied Stage Scenario 2A in early WSD saltwate Bay, Sheung W 2009 with concurrent Gooling water HKCEC, WCR, TPCWA, and Exhibitio	pplications er intakes at an, Wan Chai intakes for	t Sai Wa i, Kowloo Hong Ko	n Ho, Quarry n South ng Convention	Work site / During the construction period	Contractor		V			EIAO-TM, WPCO

Appendix 2.1

Contract No. HK/2015/01

Wanchai Development Phase II and Central Wanchai Bypass Sampling, Field Measurement and testing Works (Stage3)

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location /	Implementation	Implementation Stages*			on	Relevant Legislation	
LETRE	Linvironmentur i rotection	in the user cost in the gation in cubit co	Timing	Agent	Des	С	0	Dec	and Guidelines
	TBW, NP and Water Mains Zone Scenario 2B in late 2009/2010 with concurrent dredging activities at Sewage Pipelines Zone and TCBR. Scenario 2C in 2011 with	Convention and Exhibition Centre Phase I, Telecom House / HK Academy for Performing Arts / Shun On Centre, Wan Chai Tower / Revenue Tower / Immigration Tower and Sun Hung Kai Centre WSD saltwater intakes at Sheung Wan, Wan Chai Cooling water intakes for Queensway Government Offices, Excelsior Hotel, World Trade Centre and Windsor House.							
	concurrent dredging activities at HKCEC and TCBR.	Reprovisioned WSD Wan Chai saltwater intake. Cooling water intakes for MTR South, Excelsior Hotel & World Trade Centre and reprovisioned Windsor House.							
S5.8	spillage and sealed ti	include: used, shall be designed and maintained to avoid ghtly while being lifted. For dredging of any sed watertight grabs must be used;	Work site / During the construction period	Contractor		V			ProPECC PN 1/94; WPCO (TM-DSS)
	vessels and the seabe	d so that adequate clearance is maintained between ed in all tide conditions, to ensure that undue rated by turbulence from vessel movement or							
		dredgers shall be fitted with tight fitting seals to o prevent leakage of material;							
		shall not cause foam, oil, grease, scum, litter or tter to be present on the water within the site or							
	dredged material into t	noppers shall be controlled to prevent splashing of he surrounding water. Barges or hoppers shall not t will cause the overflow of materials or polluted r transportation; and							

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location /	Implementation Agent	In		entati ges*	on	Relevant Legislation
		Timing	Agent	Des	С	0	Dec	and Guidelines
	• before commencement of the reclamation works, the holder of Environmental Permit has to submit plans showing the phased construction of the reclamation, design and operation of the silt curtain.							
S5.8	Silt screens are recommended to be deployed at the seawater intakes during the reclamation works period. Installation of silt screens at the seawater intake points may cause a potential for accumulation and trapping of pollutants, floating debris and refuse behind the silt screens and may lead to potential water quality deterioration at the seawater intake points. Major sources of pollutants and floating refuse include the runoff and storm water discharges from the nearby coastal areas. As a mitigation measure to avoid the pollutant and refuse entrapment problems and to ensure that the impact monitoring results are representative, regular maintenance of the silt screens and refuse collection shall be performed at the monitoring stations at regular intervals on a daily basis. The Contractor shall be responsible for keeping the water behind the silt screen free from floating rubbish and debris during the impact monitoring period.	Work site / During the construction period	Contractor		V			EIAO-TM, WPCO

Appendix 2.1

Contract No. HK/2015/01 Wanchai Development Phase II and Central Wanchai Bypass Sampling, Field Measurement and testing Works (Stage3)

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location /	Implementation	In	ıplem Staş	entatio ges*	on	Relevant Legislation
		Timing	Agent	Des	С	0	Dec	and Guidelines
S5.8	Dredging of contaminated mud is recommended as a mitigation measures for control of operational odour impact from the Causeway Bay typhoon shelter. In recognition of the potential impacts caused by dredging activities close to the seawater intakes, only 1 small close grab dredger shall be operated within the typhoon shelter (for the dredging to mitigate odour impact) at any time to minimize the potential impact. Double silt curtains shall be deployed to fully enclose the closed grab dredger during the dredging operation. In addition, an impermeable barrier, suspended from a floating boom on the water surface and extended down to the seabed, shall be erected to isolate the adjacent intakes as much as possible from dredging activities. For example, if dredging is to be carried out at the southwest corner of the typhoon shelter, physical barriers shall be erected to west of the cooling water intake for Excelsior Hotel so that the intake would be shielded from most of the SS generated from the dredging operation to the west of the intake. For area in close proximity of the cooling water intake for the intake. For area in close proximity of the cooling water intakes during the dredging operations. Daily monitoring of SS at the cooling water intake shall be carried out, and 24 hour monitoring of turbidity at the intakes shall be implemented during the dredging activities. If the monitoring results indicate that the dredging operation has caused significant changes in water quality conditions at the seawater intakes, appropriate actions shall be taken to stop the dredging and mitigation measures such as slowing down the dredging rate shall be implemented.	Causeway Bay typhoon shelter/Imple mentation of harbour-front enhancement.	CEDD <u>3</u>					WPCO

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location /	Implementation	Implementation Stages*				Relevant Legislation																	
LEI KU	Livitoimientai Frocedon Measares / Mitigation Measares	Timing	Agent	Des	С	0	Dec	and Guidelines																	
For the Wh	ole Project																								
S5.8	Construction Runoff and Drainage	Work site	Contractor		V			ProPECC PN 1/94; WPCO (TM-DSS)																	
	 use of sediment traps, wheel washing facilities for vehicles leaving the site, and adequate maintenance of drainage systems to prevent flooding and overflow; 	/ During the constructi on period						wico (111-035)																	
	 Permanent drainage channels shall incorporate sediment basins or traps and baffles to enhance deposition rates. The design of efficient silt removal facilities shall be based on the guidelines in Appendix A1 of ProPECC PN 1/94; 																								
	 a sediment tank constructed from pre-formed individual cells of approximately 6 - 8 m3 capacity can be used for settling ground water prior to disposal; 																								
	 oil interceptors shall be provided in the drainage system for the tunnels and regularly cleaned to prevent the release of oils and grease into the storm water drainage system after accidental spillages. The interceptor shall have a bypass to prevent flushing during periods of heavy rain; 																								
	 precautions and actions to be taken when a rainstorm is imminent or forecast, and during or after rainstorms. Particular attention shall be paid to the control of any silty surface runoff during storm events; 																								
	 on-site drainage system shall be installed prior to the commencement of other construction activities. Sediment traps shall be installed in order to minimise the sediment loading of the effluent prior to discharge; 																								
	 All temporary and permanent drainage pipes and culverts provided to facilitate runoff discharge shall be adequately designed for the controlled release of storm flows. All sediment control measures shall be regularly inspected and maintained to ensure proper and efficient operation at all times and particularly following rain storms. The temporarily diverted drainage shall be reinstated to its original condition when the construction work is finished or the temporary diversion is no longer 																								

³ CEDD will identify an implementation agent.

Appendix 2.1

Contract No. HK/2015/01

Wanchai Development Phase II and Central Wanchai Bypass Sampling, Field Measurement and testing Works (Stage3)

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location /	Implementation	In		entati ges*	on	Relevant Legislation
		Timing	Agent	Des	С	0	Dec	and Guidelines
	 required. All fuel tanks and store areas shall be provided with locks and be sited on sealed areas, within bunds of a capacity equal to 110% of the storage capacity. 							
	• Minimum distances of 100 m shall be maintained between the storm water discharges and the existing or planned WSD flushing water intakes during construction phase.							
S5.8	Sewage from Construction Work Force Construction work force sewage discharges on site shall be connected to the existing trunk sewer or sewage treatment facilities. The construction sewage shall be handled by portable chemical toilets prior to the commission of the on-site sewer system. Appropriate numbers of portable toilets shall be provided by a licensed contractor to serve the large number of construction workers over the construction site. The Contractor shall also be responsible for waste disposal and maintenance practices.	Work site / During the construction period	Contractor		V			ProPECC PN 1/94; WPCO (TM-DSS)
\$5.8	<i>Floating Debris and Refuse</i> Collection and removal of floating refuse shall be performed at regular intervals on a daily basis. The contractor shall be responsible for keeping the water within the site boundary and the neighbouring water free from rubbish.	Work site and adjacent water / During the construction period.	Contractor		\checkmark			WPCO

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location /	Implementation	In	nplem Sta	entati ges*	on	Relevant Legislation and Guidelines
		Timing	Agent	Des	С	0	Dec	
S5.8	Storm Water Discharges Minimum distances of 100 m shall be maintained between the existing or planned stormwater discharges and the existing or planned WSD flushing water intakes.	Work site and adjacent water / During the design and construction period.	Contractor	~	~			WPCO
Operation 1		I	L	1	1	1		
	3 (within the Project Boundary)		×× = === 3				1	
S5.8	 For the operation of CWB, a surface water drainage system would be provided to collect road runoff. The following operation stage mitigation measures are recommended to ensure road runoff would comply with the TM under the WPCO: The drainage from tunnel sections shall be directed through petrol interceptors to remove oil and grease before being discharged to the nearby foul water manholes. 	CWB/During design and operational period	HyD/TD ³	V		V		WPCO
	 Petrol interceptors shall be regularly cleaned and maintained in good working condition. 							
	 Oily contents of the petrol interceptors shall be properly handled and disposed of, in compliance with the requirements of the Waste Disposal Ordinance. 							
	• Sewage arising from ancillary facilities of CWB (for examples, car park,	ising from ancillary facilities of CWB (for examples, car park,						

Appendix 2.1

Contract No. HK/2015/01 Wanchai Development Phase II and Central Wanchai Bypass Sampling, Field Measurement and testing Works (Stage3)

Quarterly EM&A Report

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	ıplem Staş	entati ges*	Relevant Legislation	
	ů.		Agent	Des	С	0	Dec	and Guidelines
	 control room, ventilation and administration buildings and tunnel portals) shall be connected to public sewerage system. Sufficient capacity in public sewerage shall be made available to the proposed facilities. Road drainage shall also be provided with adequately designed silt trap to minimize discharge of silty runoff. The design of the operational stage mitigation measures for CWB shall take into account the guidelines published in ProPECC PN 5/93 "Drainage Plans subject to Comment by the EPD." All operational discharges from the CWB into drainage or sewerage systems are required to be licensed by EPD under the WPCO. 							

* Des - Design, C - Construction, O - Operation, and Dec - Decommissioning

³ if employ Management, Operation and Maintenance (MOM) Contract

Table A13.4 Implementation Schedule for Waste Management

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	nplem Sta	entati ges*	ion	Relevant Legislation
		Location / Thing	Agent	Des	С	0	Dec	and Guidelines
Constructio	on Phase							
For DP3 –	Reclamation Works							
	Marine Sediments	Work site / During the construction period	Contractor		V			ETWB TCW No. 34/2002
\$6.7.2	The dredged marine sediments would be loaded onto barges, transported to and disposed of at the designated disposal sites at South of Cheung Chau, East of Ninepin, East of Tung Lung Chau, South of Tsing Yi or East of Sha Chau to be allocated by the MFC depending on their level of contamination or at other disposal sites after consultation with the MFC and EPD. In accordance with the ETWB TCW No. 34/2002, the contaminated material must be dredged and transported with great care. The mitigation measures recommended in Section 5 of the EIA Report shall be incorporated. The dredged contaminated sediment must be effectively isolated from the environment upon final disposal and shall be disposed of at the Type 2 confined marine disposal contaminated mud pit.							
S6.7.3	Based on the biological screening results, the Category H (>10xLCEL) sediment which failed the biological testing would require Type 3 special disposal. The volume of Category H sediment from the Causeway Bay typhoon shelter which would require special disposal arrangements is estimated to be approximately 0.05 Mm ³ . A feasible containment method is proposed whereby the dredged sediments are sealed in geosynthetic containers and, at the disposal site, the containers would be dropped into the designated contaminated mud pit where they would be covered by further mud disposal and later by the mud pit capping, thereby meeting the requirements for fully confined mud disposal.							

Appendix 2.1

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Wanchai Development Phase II and Central Wanchai Bypass Sampling, Field Measurement and testing Works (Stage3)

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Implementation Stages*			Relevant Legislation	
		Implementation Implementation Stages* Relevant Le and Guid y the f the and swill over to being Implementation Implementation Implementation arrine wing water Implementation Implementation Implementation Implementation	and Guidelines					
S6.7.5	It will be the responsibility of the Contractor to satisfy the appropriate authorities that the contamination levels of the marine sediment to be dredged have been analysed and recorded. According to the ETWB TCW No. 34/2002, this will involve the submission of a formal Sediment Quality Report to the DEP, at least 3 months prior to the dredging contract being tendered							
S6.7.6	During transportation and disposal of the dredged marine sediments requiring Type 1 and Type 2 disposal, the following measures shall be taken to minimise potential impacts on water quality:							
	 Bottom opening of barges shall be fitted with tight fitting seals to prevent leakage of material. Excess material shall be cleaned from the decks and exposed fittings of barges and hopper dredgers before the vessel is moved. 							

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	ıplem Staş	entati ges*	on	Relevant Legislation
		Location, Thing	Agent	Des	С	0	Dec	and Guidelines
	 Monitoring of the barge loading shall be conducted to ensure that loss of material does not take place during transportation. Transport barges or vessels shall be equipped with automatic self-monitoring devices as specified by the DEP. Barges or hopper barges shall not be filled to a level that would cause the overflow of materials or sediment laden water during loading or transportation. 							
\$6.6.12	<i>Floating Refuse</i> During the construction phase, the project proponent's contractor will be responsible for the collection of any refuse within their works area. Floating booms will be provided on the water surface to confine the refuse from the working barges as well as to avoid the accumulation of pollutants within temporary embayment as mentioned in Table 13.3.	Work site / During the construction period	Contractor		\checkmark			

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Contract No. HK/2015/01 Wanchai Development Phase II and Central Wanchai Bypass Sampling, Field Measurement and testing Works (Stage3)

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	ıplem Staş	entati ges*	on	Relevant Legislation
			Agent	Des	С	0	Dec	and Guidelines
S6.7.7	 Good Site Practices Recommendations for good site practices during the construction activities include: nomination of an approved person, such as a site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site; training of site personnel in proper waste management and chemical waste handling procedures; provision of sufficient waste disposal points and regular collection for disposal; appropriate measures to minimise windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers; regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors; and a recording system for the amount of wastes generated, recycled and disposed of (including the disposal sites). 	Work site / During the construction period	Contractor		~			Waste Disposal Ordinance (Cap.354)

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	nplem Sta	entati ges*	on	Relevant Legislation and Guidelines
	Environmental Protection Measures / Mitagation Measures	Docution / Thining	Agent	Des	С	0	Dec	
\$6.7.8	 Waste Reduction Measures Waste reduction is best achieved at the planning and design stage, as well as by ensuring the implementation of good site practices. Recommendations to achieve waste reduction include: segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal; 	Work site / During planning and design stage, and construction stage	Contractor	V	V			
	 to encourage collection of aluminium cans, PET bottles and paper, separate labelled bins shall be provided to segregate these wastes from other general refuse generated by the work force; 							
	 any unused chemicals or those with remaining functional capacity shall be recycled; 							
	 use of reusable non-timber formwork, such as in casting the tunnel box sections, to reduce the amount of C&D material. 							
	 prior to disposal of C&D waste, it is recommended that wood, steel and other metals shall be separated for re-use and / or recycling to minimise the quantity of waste to be disposed of to landfill; 							
	• proper storage and site practices to minimise the potential for damage or contamination of construction materials; and							
	 plan and stock construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste. 							

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	nplem Sta	entati ges*	on	Relevant Legislation
	Zarra omnenna i rotection riceasares / riceganon riceasares	Docution / Thining	Agent	Des	С	0	Dec	and Guidelines
S6.7.10	General Refuse General refuse shall be stored in enclosed bins or compaction units separate from C&D material. A licensed waste collector shall be employed by the contractor to remove general refuse from the site, separately from C&D material. A collection area shall be provided where wastes can be stored and loaded prior to removal from site. An enclosed and covered area is recommended to reduce the occurrence of 'wind blow' light material.	Work site / During the construction period	Contractor		V			Public Health and Municipal Services Ordinance (Cap. 132)
\$6.7.11	Chemical Wastes After use, chemical wastes (for example, cleaning fluids, solvents, lubrication oil and fuel) shall be handled according to the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. Spent chemicals shall be collected by a licensed collector for disposal at the CWTF or other licensed facility in accordance with the Waste Disposal (Chemical Waste) (General) Regulation.	Work site / During the construction period	Contractor		V			Waste Disposal (Chemical Waste) (General) Regulation Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes
\$6.7.12	Construction and Demolition Material C&D material shall be sorted on-site into inert C&D material (that is, public fill) and C&D waste. All the suitable inert C&D material shall be broken down to 250 mm in size for reuse as public fill in the WDII reclamation. C&D waste, such as wood, glass, plastic, steel and other metals shall be reused or recycled and, as a last resort, disposed of to landfill. A suitable area shall be designated to facilitate the sorting process and a temporary stockpiling area will be required for the separated materials.	Work site / During the construction period	Contractor		V			ETWB TCW No. 33/2002, 31/2004, 19/2005

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	nplem Stag	entati ges*	on	Relevant Legislation
	Environmental Protection Measures / Minigation Measures	Location / Thining	Agent	Des	С	0	Dec	and Guidelines
\$6.7.13	In order to monitor the disposal of public fill and C&D waste at public filling facilities and landfills, respectively, and to control fly tipping, a trip-ticket system shall be included as one of the contractual requirements and implemented by the Environmental Team undertaking the environmental monitoring and audit work. An Independent Environment Checker shall be responsible for auditing the results of the system.	Work site / During the construction period	Contractor and Independent Environmental Checker		V			ETWB TCW No. 31/2004
S6.7.14	 Bentonite Slurry The disposal of residual used bentonite slurry shall follow the good practice guidelines stated in ProPECC PN 1/94 "Construction Site Drainage" and listed as follows: If the disposal of a certain residual quantity cannot be avoided, the used slurry may be disposed of at the marine spoil grounds subject to obtaining a marine dumping licence from EPD on a case-by-case basis. If the used bentonite slurry is intended to be disposed of through the public drainage system, it shall be treated to the respective effluent standards applicable to foul sewers, storm drains or the receiving waters as set out in the Technical Memorandum of Standards for Effluents Discharged into Drainage and Sewerage Systems, Inland and Coastal Waters. If the used bentonite slurry is intended to be disposed to public fill reception facilities, it will be mixed with dry soil on site before disposal. 	Work site / During the construction period	Contractor		V			ProPECC PN 1/94

* Des - Design, C - Construction, O - Operation, and Dec - Decommissioning

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Table A13.5 Implementation Schedule for Land Contamination

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	nplem Sta	entati ges*	on	Relevant Legislation
		Docution / Timing	Agent	Des	С	0	Dec	and Guidelines
Constructio	on Phase							
For the Wh	ole Project							
S.12.6	• The contaminated site shall be cleaned up before commencement of site clearance and construction work at the concerned area which may disturb the ground.	A King Marine / Before commencement of construction activities at A King Marine.	Project proponent for the re- provisioned Tin Hau Temple	V				"Guidance Notes for Investigation and Remediation of Contaminated Sites of Petrol Filling Stations, Boatyards, and Car Repair/Dismantling Workshops" published by EPD, HKSAR EPD ProPECC Note No. 3/94
\$7.10	 During soil remediation works, the Contractor for the excavation works shall take note of the following points for excavation: Excavation profiles must be properly designed and executed; In case the soil to be excavated is situated beneath the groundwater table, it may be necessary to lower the groundwater table by installing well points or similar means; Quantities of soil to be excavated must be estimated; It maybe necessary to split quantities of soil according to soil type, degree and nature of contamination. Temporary storage of soil at intermediate depot or on-site 	A King Marine / During soil remediation works	Contractor	~				Air Pollution Control Ordinance Noise Control Ordinance Waste Disposal Ordinance Waste Disposal (Chemical Waste) (General) Regulation

EIA Ref	Environmental Protection Measures / Mitigation Measures	s Location / Timing Implementation	ion Measures Location / Timing		In	Implementation Stages*		on	Relevant Legislation
	e e e e e e e e e e e e e e e e e e e		Agent	Des	С	0	Dec	and Guidelines	
	maybe required. The storage site shall include protection facilities for leaching into the ground. eg. Liner maybe required.								
	 Supply of suitable clean backfill materials is needed after excavation. Care must be taken of existing buildings and utilities. Precautions must be taken to control of ground settlement Speed controls for vehicles shall be imposed on dusty site areas. Vehicle wheel and body washing facilities at the site's exit points shall be established and used. The following environmental mitigation measures shall be strictly followed during the operation and/or maintenance of the CS/S facilities: 							Water Pollution Control Ordinance	

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	ıplem Staş	entati ges*	on	Relevant Legislation
		Location, Thing	Agent	Des	С	0	Dec	and Guidelines
	 <u>Air Quality Mitigation Measures</u> The loading, unloading, handling, transfer or storage of cement shall be carried out in an enclosed system. The loading, unloading, handling, transfer or storage of other materials which may generate airborne dust emissions such as untreated soil and oversize materials sorted out from the screening plant and stabilized soil stockpiled in the designated handling area, shall be carried out in such a manner to prevent or minimise dust emissions. These materials shall be adequately wetted prior to and during the loading, unloading and handling operations. All practicable measures, including speed controls for vehicles, shall be taken to prevent or minimize the dust emission caused by vehicle movement. Tarpaulin or low permeable sheet shall be put on dusty vehicle loads transported between site locations. 							
	 Noise Mitigation Measures The mixing facilities shall be sited as far as practicable to the nearby noise sensitive receivers. Simultaneous operation of mixing facilities and other equipment shall be avoided. Mixing process and other associated material handling activities shall be properly scheduled to minimise potential cumulative noise impact on the nearby noise sensitive receivers. Construction Noise Permit shall be applied for the operation of powered mechanical equipment during restricted hours (if any). 							

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	nplem Sta	entati ges*	on	Relevant Legislation
	Zin vin ommenden i Foreculon virensur es / virugan on virensur es	Location, Thinnig	Agent	Des	С	0	Dec	and Guidelines
	 Water Quality Mitigation Measures Stockpile of untreated soil shall be covered as far as practicable to prevent the contaminated material from leaching out. The leachate shall be discharged following the requirements of WPCO. 							
	 <u>Waste Mitigation Measures</u> Treated oversize materials will be used as filling material for backfilling within the site. Sorted materials of size smaller than 5 cm will be collected and transferred to the mixing plant for further decontamination treatment. Stabilized soils shall be broken into suitable size for backfilling or reuse on site. A high standard of housekeeping shall be maintained within the mixing plant area. 							

* Des - Design, C - Construction, O - Operation, and Dec - Decommissioning

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Table A13.6 Implementation Schedule for Marine Ecology

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	nplem Sta	entati ges*	on	Relevant Legislation
	g		Agent	Des	С	0	Dec	and Guidelines
Constructio	on Phase							
For the Wh	ole Project - Schedule 3 DP							
S.9.7.2	Alternative design of the Trunk Road constructed in tunnel shall be adopted to avoid permanent reclamation in CBTS and ex-PWCA Basin.	-	CEDD/HyD	V				EIAO TM Annex 16 (Section 8.4) & EIAO Guidance Note No. 3/2002.
For DP3 – I	Reclamation Works							
S.9.7.3	Translocation of those potentially affected coral colonies to the nearby suitable habitats such as Junk Bay is recommended. A detailed translocation plan (including translocation methodology, monitoring of transplanted corals, etc.) should be drafted and approval by AFCD during the detailed design stage of the Project.	Ex-PCWA Basin and along seawall next to a public pier which is about 250 m away from the CBTS	CEDD/HyD	V				EIAO TM Annex 16 (Section 8.4) & EIAO Guidance Note No. 3/2002.

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	nplem Stag	entati ges*	on	Relevant Legislation
	g		Agent	Des	С	0	Dec	and Guidelines
S.9.7.4	 During dredging and filling operations, a number of mitigation measures to control water quality shall be adopted to confine sediment plume within reclamation area and protect marine fauna in proximity to the reclamation. The mitigation measures include the following: Installation of silt curtains during dredging activities Use of tightly-closed grab dredger Reduction of dredging rate Control of grab descending speed Construction of leading edges of seawall in the early stages of the reclamation works 	Work site / during construction phase	Contractor		~			EIAO TM Annex 16 (Section 8.4) & EIAO Guidance Note No. 3/2002.
	Adoption of multiple-phase construction schedule							

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	nplem Stag	entati ges*	on	Relevant Legislation
			Agent	Des	С	0	Dec	and Guidelines
8.9.7.6	 To minimize potential disturbance impacts on the foraging ardeid population in the CBTS, particularly in the area near the A King Shipyard, appropriate mitigation measures shall be adopted particularly during the construction phase. The following measures are recommended: Use of Quiet Mechanical Plant during the construction phase shall be adopted wherever possible. Adoption of multiple-phase construction schedule. General measures to reduce noise generated during the construction phase (see noise impact assessment) shall be effectively implemented. 	Work site / during construction phase	Contractor		V			EIAO TM Annex 16 (Section 8.4) & EIAO Guidance Note No. 3/2002.
S.9.7.7	Seawalls shall be constructed in advance around the reclamation areas within the area of the CBTS to screen adjacent feeding ground from construction phase activities, reduce noise disturbance to the associated seabirds and also to restrict access to this habitat adjacent to works areas by ship traffic.	Work site / during construction phase	Contractor		V			EIAO TM Annex 16 (Section 8.4) & EIAO Guidance Note No. 3/2002.
S.9.7.8	Loss of artificial seawall habitats shall be reinstated by the construction of about 1 km vertical wave absorbing seawall along the coastlines of the new reclamation around the HKCEC and at North Point. The new seawalls are expected to provide large area of hard substrata for settlement and recruitment of intertidal fauna similar to those previously recorded from existing intertidal habitats.	Work site / during construction phase	Contractor		1			EIAO TM Annex 16 (Section 8.4) & EIAO Guidance Note No. 3/2002.

*Des - Design, C - Construction, O - Operation, and Dec - Decommissioning

Table A13.7 Implementation Schedule for Landscape and Visual

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Stages*				Relevant Legislation and Guidelines	
				0	Des	С	0	Dec	
Construction	Phase			÷					
For the Whole	Project								
Table 10.5	CM1	Topsoil, where identified, shall be stripped and stored for re-use in the construction of the soft landscape works, where practical.	Work site / During Construction Phase	Contractor	V	V			EIAO TM
Table 10.5	CM2	Existing trees to be retained on site shall be carefully protected during construction.	Work site / During Construction Phase	Contractor	V	V			EIAO TM
Table 10.5	CM3	Trees unavoidably affected by the works shall be transplanted where practical.	Work site / During Construction Phase	Contractor	V	V			EIAO TM
Table 10.5	CM4	Compensatory tree planting shall be provided to compensate for felled trees.	Work site / During Construction Phase	Contractor	V	V			EIAO TM
Table 10.5	CM5	Control of night-time lighting.	Work site / During Construction Phase	Contractor		V			EIAO TM
Table 10.5	CM6	Erection of decorative screen hoarding compatible with the surrounding setting.	Work site / During Construction Phase	Contractor		V			EIAO TM
For DP1 - CV	WB (With	in the Project Boundary)							
Table 10.5	CM1	Topsoil, where identified, shall be stripped and stored for re-use in the construction of the soft landscape works, where practical.	Work site / During Construction Phase	Contractor		V			EIAO TM
Table 10.5	CM2	Existing trees to be retained on site shall be carefully protected during construction.	Work site / During Construction Phase	Contractor	V	V			EIAO TM
Table 10.5	CM3	Trees unavoidably affected by the works shall be transplanted where practical.	Work site / During Construction Phase	Contractor	V	V			EIAO TM
Table 10.5	CM4	Compensatory tree planting shall be provided to compensate for felled trees.	Work site / During Construction Phase	Contractor	V	V			EIAO TM
Table 10.5	CM5	Control of night-time lighting.	Work site / During Construction Phase	Contractor		V			EIAO TM

Appendix 2.1

Contract No. HK/2015/01

Wanchai Development Phase II and Central Wanchai Bypass Sampling, Field Measurement and testing Works (Stage3)

EIA Ref	Environmental Protection Measures / Mitigation Measures		Location / Timing	Implementation Agent	In	nplem Sta	entati ges*	on	Relevant Legislation and Guidelines
					Des	С	0	Dec	
Table 10.5	CM6	Erection of decorative screen hoarding compatible with the surrounding setting.	Work site / During Construction Phase	Contractor		V			EIAO TM
For DP2 - WD	II Majo	r Roads (Road P2)							
Table 10.5	CM1	Topsoil, where identified, shall be stripped and stored for re-use in the construction of the soft landscape works, where practical.	Work site / During Construction Phase	Contractor	V	V			EIAO TM
Table 10.5	CM2	Existing trees to be retained on site shall be carefully protected during construction.	Work site / During Construction Phase	Contractor	V	V			EIAO TM
Table 10.5	CM3	Trees unavoidably affected by the works shall be transplanted where practical.	Work site / During Construction Phase	Contractor	V	V			EIAO TM
Table 10.5	CM4	Compensatory tree planting shall be provided to compensate for felled trees.	Work site / During Construction Phase	Contractor	V	V			EIAO TM
Table 10.5	CM5	Control of night-time lighting.	Work site / During Construction Phase	Contractor		V			EIAO TM
Table 10.5	CM6	Erection of decorative screen hoarding compatible with the surrounding setting.	Work site / During Construction Phase	Contractor		V			EIAO TM
For DP3 - Rec	lamatio	n Works							L
Table 10.5	CM5	Control of night-time lighting.	Work site / During Construction Phase	Contractor		V			EIAO TM
Table 10.5	CM6	Erection of decorative screen hoarding compatible with the surrounding setting.	Work site / During Construction Phase	Contractor		V			EIAO TM
For DP5 - Wa	ı Chai I	East Sewage Outfall							
Refer to EIA- 058/2001 Table 10.13	CM2	Minimisation of works areas.	Work site / During Construction Phase	Contractor		V			EIAO TM
Refer to EIA- 058/2001 Table 10.13	CM3	Erection of decorative hoardings.	Work site / During Construction Phase	Contractor		V			EIAO TM

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	In		entati ges*	on	Relevant Legislation and Guidelines
				Des	С	0	Dec	
Refer to EIA- 058/2001 Table 10.13	CM4 Control night-time lighting.	Work site / During Construction Phase	Contractor		V			EIAO TM
Refer to EIA- 058/2001 Table 10.13	CM5 Minimisation of disruption to public by effective programming of the works.	Work site / During Construction Phase	Contractor		V			EIAO TM
For DP6 - Cros	s-Harbour Water Mains from Wan Chai to Tsim Sha Tsui		1			1		1
Refer to EIA- 058/2001 Table 10.13	CM2 Minimisation of works areas.	Work site / During Construction Phase	Contractor		V			EIAO TM
Refer to EIA- 058/2001 Table 10.13	CM3 Erection of decorative hoardings.	Work site / During Construction Phase	Contractor		V			EIAO TM
Refer to EIA- 058/2001 Table 10.13	CM4 Control night-time lighting.	Work site / During Construction Phase	Contractor		V			EIAO TM
Refer to EIA- 058/2001 Table 10.13	CM5 Minimisation of disruption to public by effective programming of the works.	Work site / During Construction Phase	Contractor		V			EIAO TM
Operation Pha	se							l
For the Whole	Project - Schedule 3 DP							
Table 10.6, Figure 10.5.1- 10.5.5	OM1 Aesthetic design of buildings and road-related structures including viaducts, vent buildings, subways, footbridge and noise barriers and enclosure.		CEDD/HyD	V	V	V		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1- 10.5.5	OM2 Shrub and Climbing Plants to soften proposed structures.	Work site / During Design Stage and Operation Phases	CEDD/HyD	V	V	V		ETWB TCW 2/2004

Appendix 2.1

Contract No. HK/2015/01 Wanchai Development Phase II and Central Wanchai Bypass Sampling, Field Measurement and testing Works (Stage3)

Quarterly EM&A Report

EIA Ref	Environmental Protection Measures / Mitigation Measu		Location / Timing	Implementation Agent	In	nplem Sta	entati ges*	on	Relevant Legislation and Guidelines
					Des	С	0	Dec	
Table 10.6,	OM3	Buffer Tree and Shrub Planting to screen proposed roads	Work site / During	CEDD/HyD/	\checkmark	\checkmark	\checkmark		ETWB TCW 2/2004
Figure 10.5.1-		and associated structures.	Design Stage and						
10.5.5			Operation Phases						
Table 10.6,	OM4	Aesthetic design of proposed waterfront promenade.	Work site / During	$CEDD^4$	\checkmark				ETWB TCW 2/2004
Figure 10.5.1-			Design Stage and						
10.5.5			Operation Phases						
Table 10.6,	OM5	Aesthetic streetscape design.	Work site / During	CEDD/HyD					ETWB TCW 2/2004
Figure 10.5.1-			Design Stage and						
10.5.5			Operation Phases						
Table 10.6,	OM6	Aesthetic design of roadside amenity areas.	Work site / During	CEDD/HyD	\checkmark	\checkmark	\checkmark		ETWB TCW 2/2004
Figure 10.5.1-			Design Stage and						
10.5.5			Operation Phases						
For DP1 - CW	B (Withi	n the Project Boundary)							
Table 10.6,	OM1	Aesthetic design of buildings and road-related structures,	Work site / During	HyD	\checkmark				ETWB TCW 2/2004
Figure 10.5.1-		including viaducts, vent buildings, subways, footbridges	Design Stage and						
10.5.5		and noise barriers and enclosure.	Operation Phases						
Table 10.6,	OM2	Shrub and Climbing Plants to soften proposed structures	Work site / During	HyD	\checkmark				ETWB TCW 2/2004
Figure 10.5.1-			Design Stage and						
10.5.5			Operation Phases						
Table 10.6,	OM3	Buffer Tree and Shrub Planting to screen proposed roads	Work site / During	HyD	\checkmark				ETWB TCW 2/2004
Figure 10.5.1-		and associated structures.	Design Stage and						
10.5.5			Operation Phases						
Table 10.6,	OM5	Aesthetic streetscape design.	Work site / During	HyD	\checkmark				ETWB TCW 2/2004
Figure 10.5.1-			Design Stage and						
10.5.5			Operation Phases						
Table 10.6,	OM6	Aesthetic design of roadside amenity areas.	Work site / During	HyD	\checkmark				ETWB TCW 2/2004
Figure 10.5.1-			Design Stage and						
10.5.5			Operation Phases						
For DP2 - WD	II Major	Roads (Road P2)							

⁴ CEDD will identify an implementation agent

EIA Ref	Enviro	onmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	In	nplem Sta	entati ges*	ion	Relevant Legislation and Guidelines
					Des	С	0	Dec	
Table 10.6, Figure 10.5.1- 10.5.5	OM1	Aesthetic design of buildings and road-related structures, including viaducts, vent buildings, subways, footbridges and noise barriers and enclosure.	Work site / During Design Stage and Operation Phases	CEDD/HyD		V	V		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1- 10.5.5	OM3	Buffer Tree and Shrub Planting to screen proposed roads and associated structures.	Work site / During Design Stage and Operation Phases	CEDD/HyD		V	V		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1- 10.5.5	OM5	Aesthetic streetscape design.	Work site / During Design Stage and Operation Phases	CEDD/HyD		V	V		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1- 10.5.5	OM6	Aesthetic design of roadside amenity areas	Work site / During Design Stage and Operation Phases	CEDD/HyD		V	V		ETWB TCW 2/2004
For DP3 - Rec	amatior	ı Works	1	r					a
Table 10.6, Figure 10.5.1- 10.5.5	OM4	Aesthetic design of proposed waterfront promenade.	Work site / During Design Stage and Operation Phases	CEDD ⁵	V	V	V		ETWB TCW 2/2004

*Des - Design, C - Construction, O - Operation, and Dec - Decommissioning

⁵ CEDD will identify an implementation agent

Appendix 2.1



Appendix 3.1

Action and Limit Level



Lam Geotechnics Limited

Action and Limit Level

Action and Limit Level for Noise Monitoring

Time Period	Action Level	Limit Level
07:00 – 19:00 hours on normal weekdays	When one documented complaint is received.	75 dB(A) ^{Note 1}

Note 1:

- 70dB(A) and 65 dB(A) for schools during normal teaching periods and school examination periods, respectively.

- If works are to be carried out during the restricted hours, the conditions stipulated in the Construction Noise Permit (CNP) issued by the Noise Control Authority have to be followed.

Action and Limit Level for Air Quality Monitoring

Monitoring Location	1-hour TSP Level	in μ g/m ³	24-hour TSP Level	in μ g/m ³
	Action Level	Limit Level	Action Level	Limit Level
CMA1b	320.1	500	176.7	260
CMA2a	323.4	500	169.5	260
CMA3a	311.3	500	171.0	260
CMA4a	312.5	500	171.2	260
CMA5b	332.0	500	181.0	260
CMA6a	300.1	500	187.3	260

Action and Limit Level for Water Quality Monitoring

Parameters	Dry S	eason	Wet S	eason				
Parameters	Action	Action Limit		Limit				
WSD Salt Water Intake								
SS in mg L ⁻¹	13.00	14.43	16.26	19.74				
Turbidity in NTU	8.04	9.49	10.01	11.54				
DO in mg/L	3.66	3.28	3.17	2.63				
Cooling Water Intal	(e							
SS in mg L ⁻¹	15.00	22.13	18.42	27.54				
Turbidity in NTU	9.10	10.25	11.35	12.71				
DO in mg/L	3.36	2.73	3.02	2.44				

Remarks:

- Action and Limit Level for the wet season are applied after the EPD approval of Updated EM&A Manual on 29 April 2011.

Action and Limit Level for Enhance DO Monitoring

Parameters	Depth	Dry S	Season	Wet Season		
Parameters		Action	Limit	Action	Limit	
C6	Surface and Middle	3.13	2.00	2.60	2.00	
0	Bottom	4.14	3.33	2.91	2.34	
C7	Surface and Middle	3.87	3.09	3.31	2.57	
07	Bottom	3.91	3.53	2.75	2.48	
Ex-WPCWA SW	Surface and Middle	3.84	3.73	3.19	3.10	
EX-WEGWA SW	Bottom	4.71	4.63	3.31	3.25	
	Surface and Middle	4.26	3.61	3.55	3.00	
Ex-WPCWA SE	Bottom	5.36	5.35	3.76	3.76	

Action and Limit Levels for Odour Patrol

Parameters	Action	Limit
Odour Nuisance (from odour intensity analysis or odour patrol)	 When two documented complaint are received; or Odour Intensity of 2 is measured from odour intensity analysis. 	 Five or more consecutive genuine documented complaints within a week; or Odour Intensity of 3 or above is measured from odour intensity analysis.

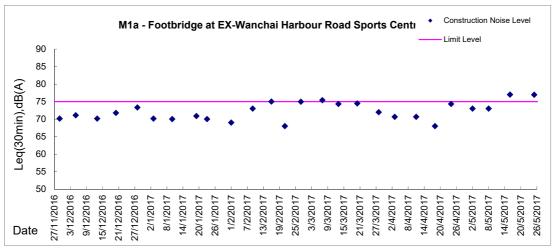


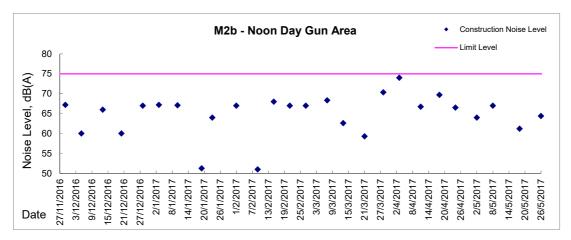
Appendix 4.1

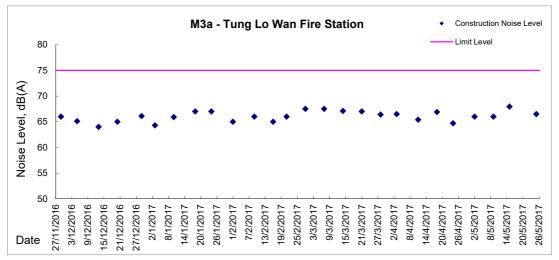
Noise Monitoring Graphical Presentations



Graphic Presentation of Noise Monitoring Result Day Time (0700 - 1900hrs on normal weekdays)

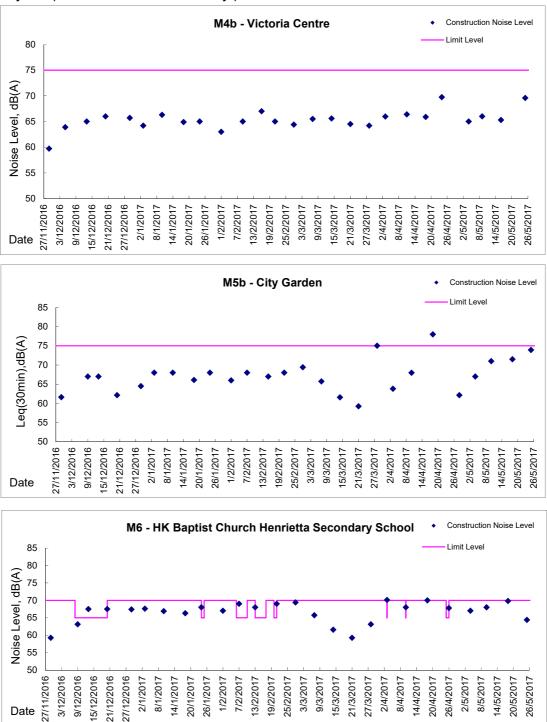








Graphic Presentation of Noise Monitoring Result Day Time (0700 - 1900hrs on normal weekdays)

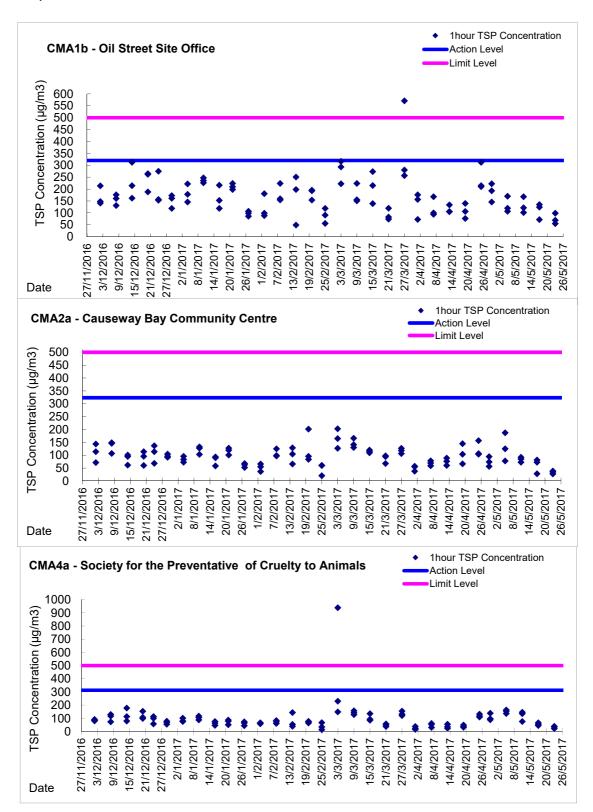




Appendix 4.2 Air Quality Monitoring Graphical Presentations

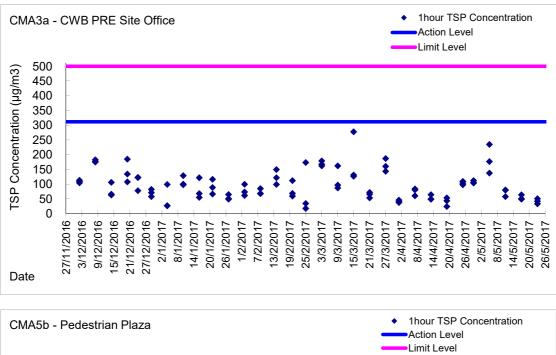


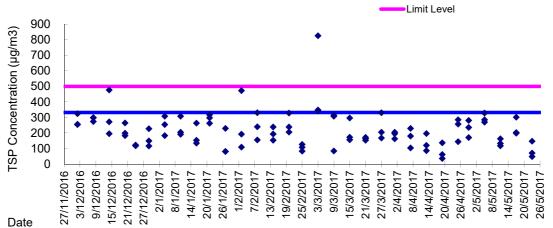
Graphic Presentation of 1 hour TSP Result

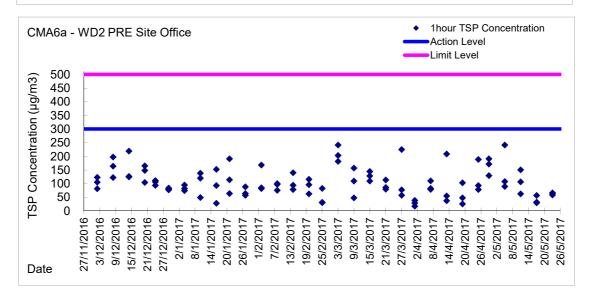




Graphic Presentation of 1 hour TSP Result

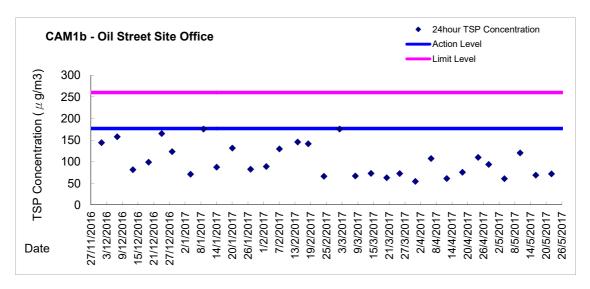


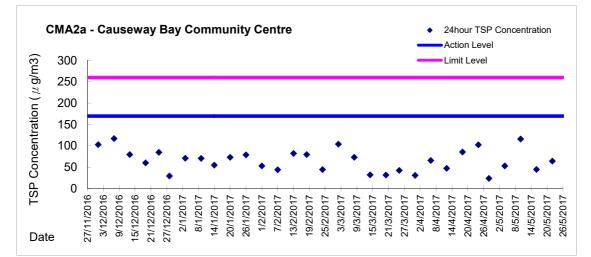


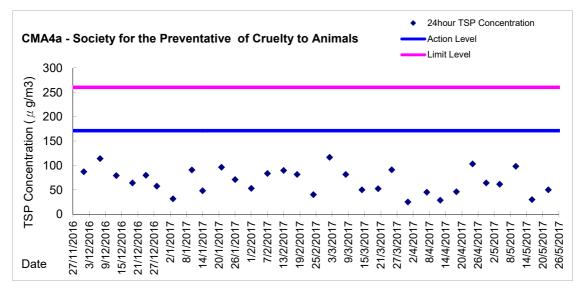




Graphic Presentation of 24 hour TSP Result

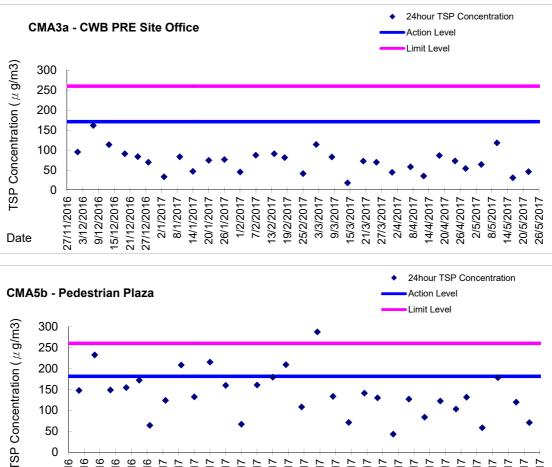


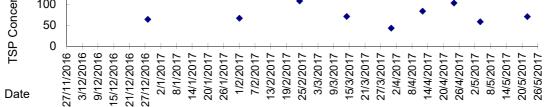


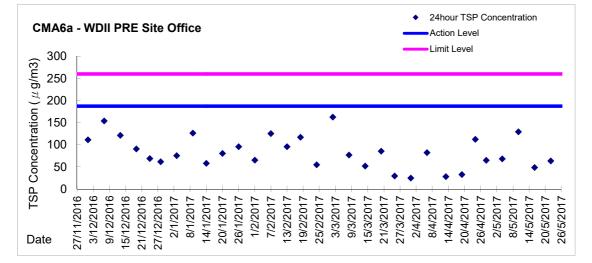




Graphic Presentation of 24 hour TSP Result





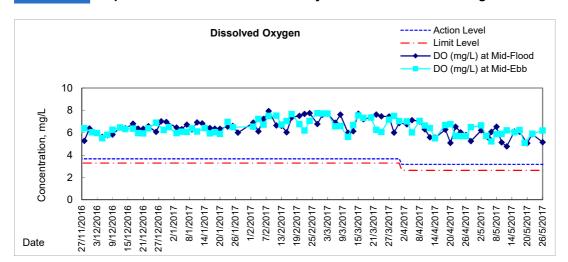


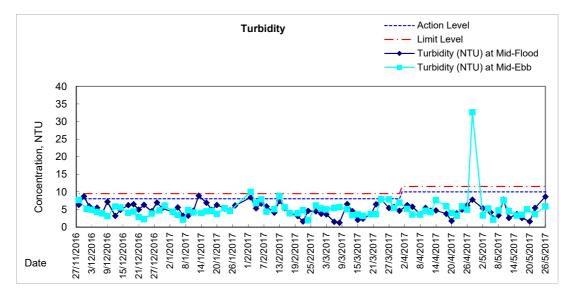


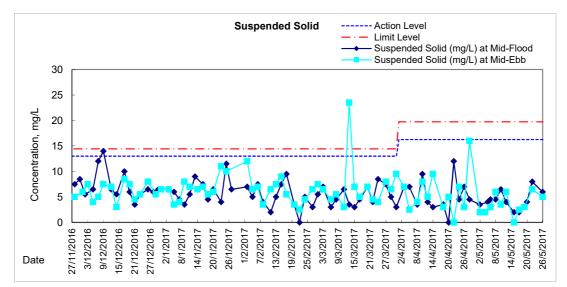
Appendix 4.3

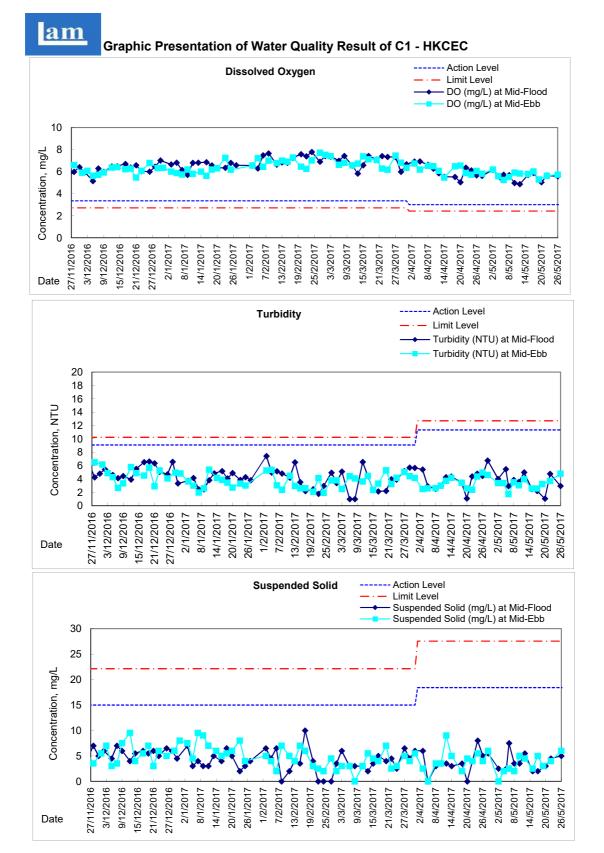
Water Quality Monitoring Graphical Presentations

Graphic Presentation of Water Quality Result of WSD19 - Sheung Wan

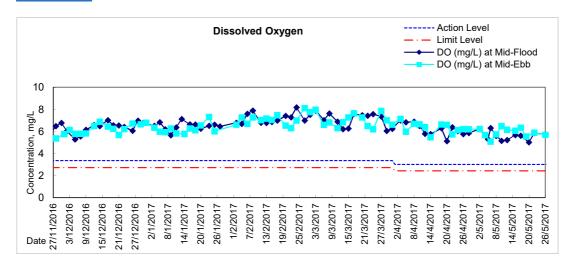


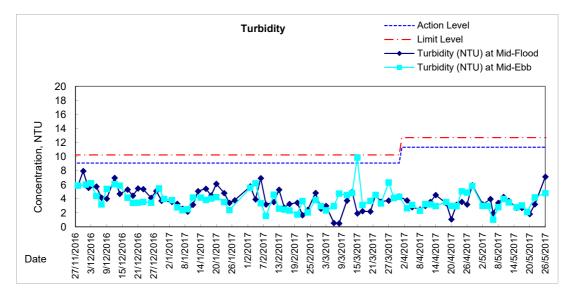


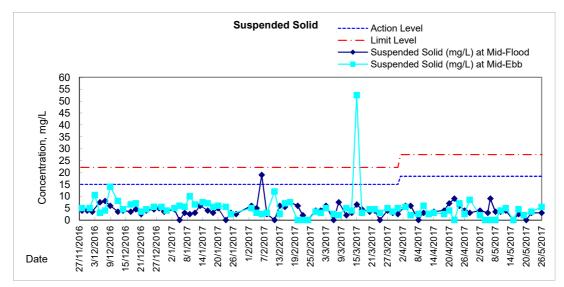




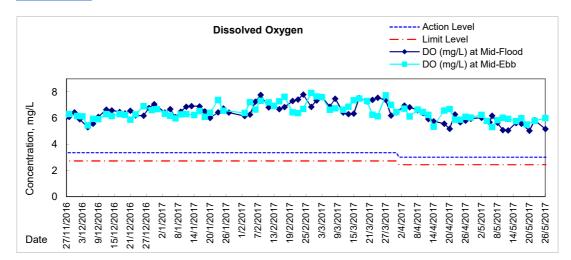
Graphic Presentation of Water Quality Result of P1 - HKCEC Phase I

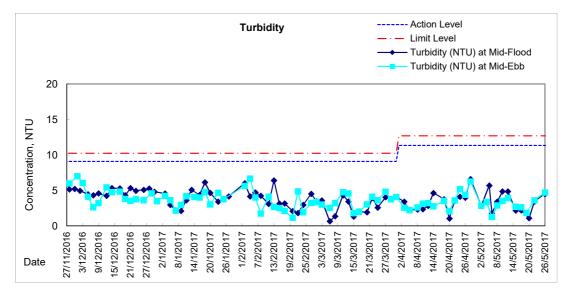


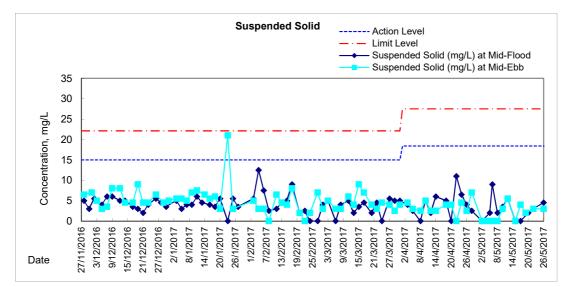




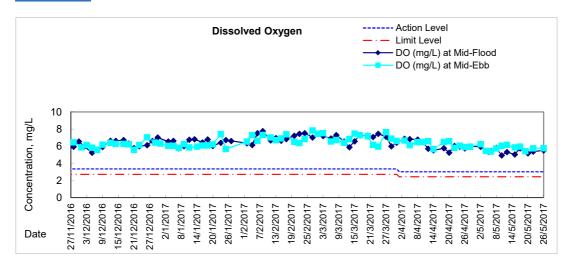
Graphic Presentation of Water Quality Result of P3 - APA

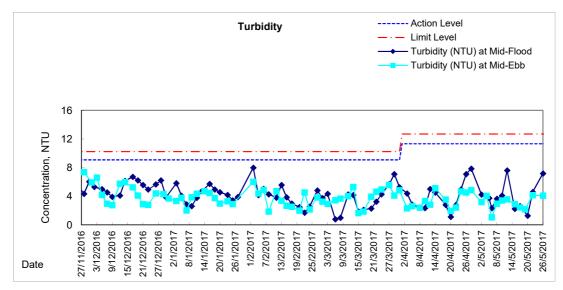


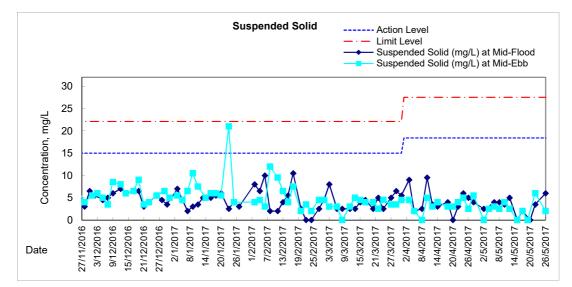




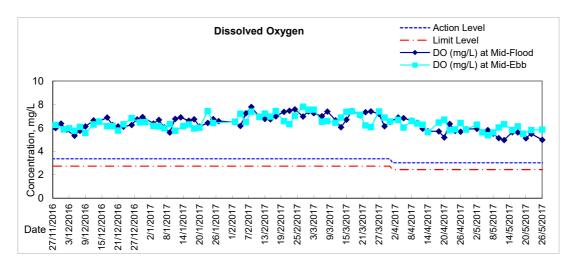
Graphic Presentation of Water Quality Result of P5 - WCT / RT / IT

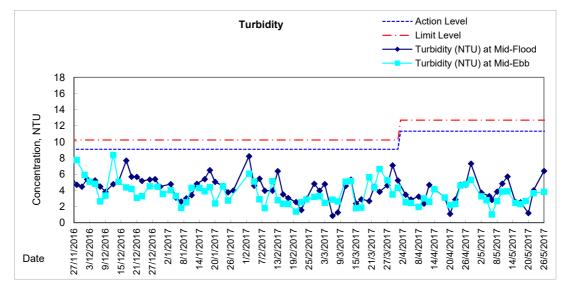


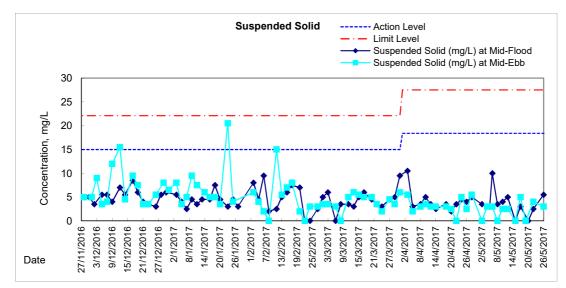


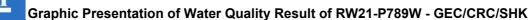


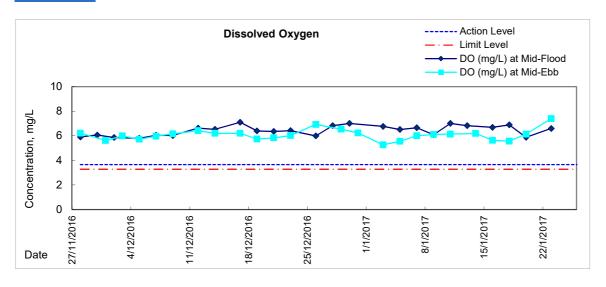
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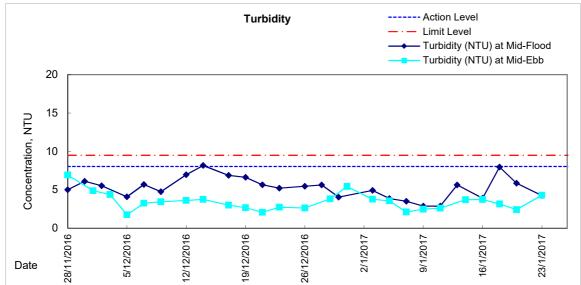


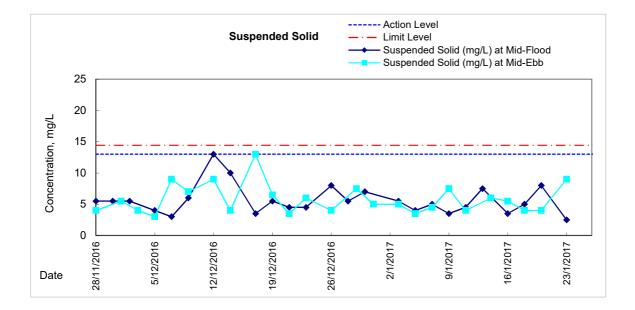


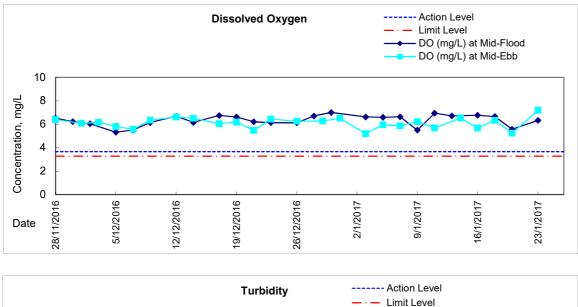


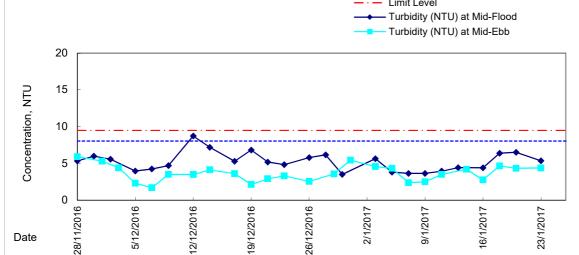


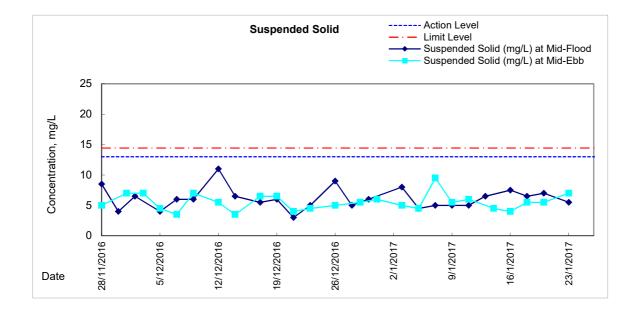


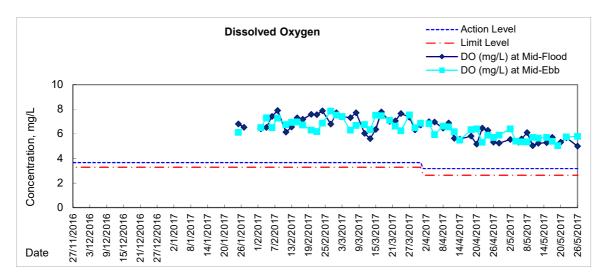


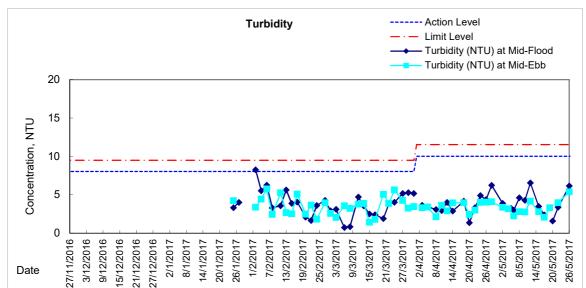


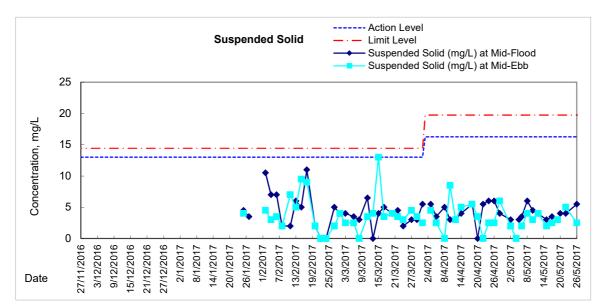






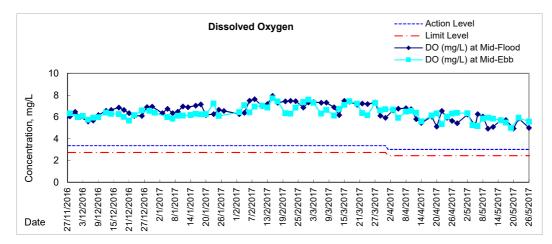


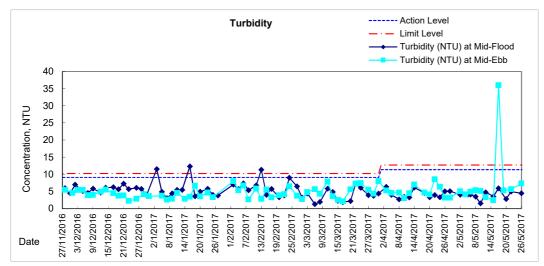


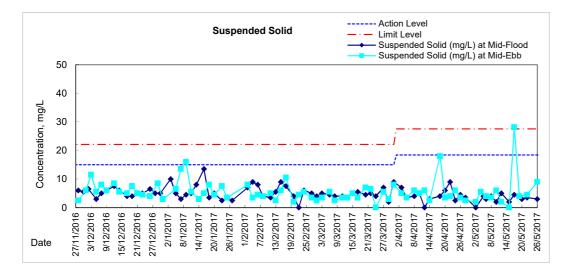


Remarks: With respect to the removal of silt screen system for Cooling Water Intakes P7, P8, P9 and WSD Water Intake RW21, the respective water quality monitoring at monitoring station RW21-P789 was adjusted to RW21-P789 East (RW21-P789E) and RW21-P789 West (RW21-P789W) from 28 November 2016 ebb tide. Due to the reinstatement of the captioned silt screen system, the respective water quality monitoring was reverted to previous monitoring station RW21-P789 from 25 January 2017 onwards.

Graphic Presentation of Water Quality Result of C7 - Windsor House

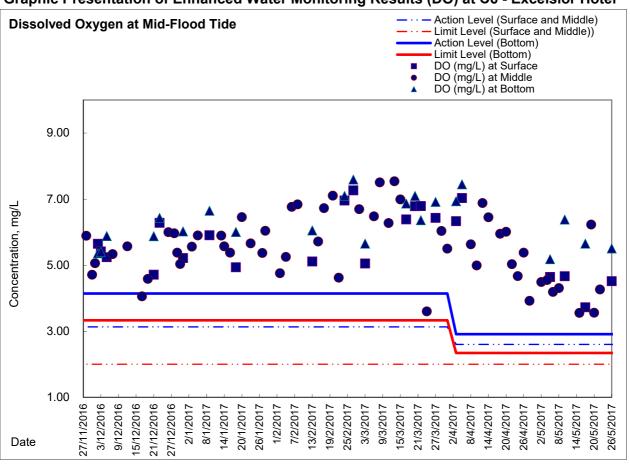




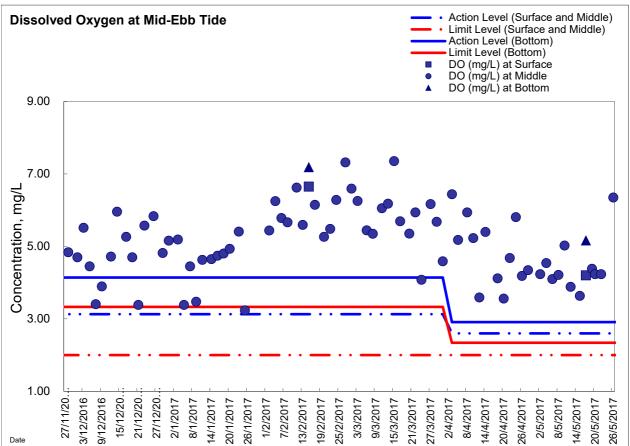


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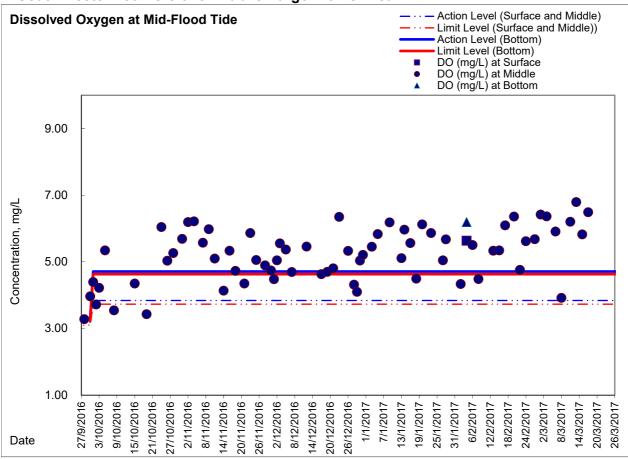


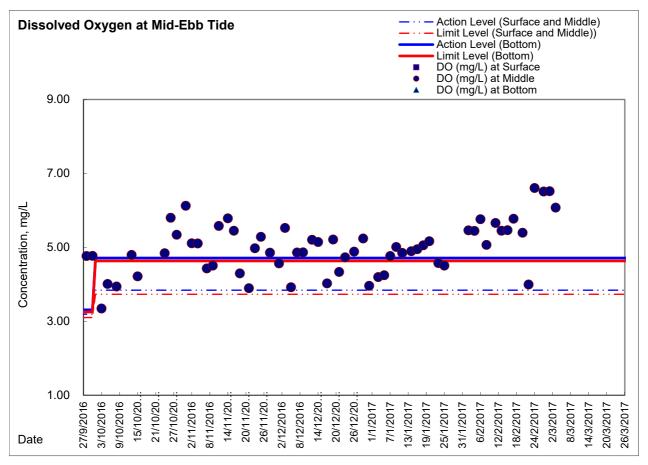
Graphic Presentation of Enhanced Water Monitoring Results (DO) at C6 - Excelsior Hotel





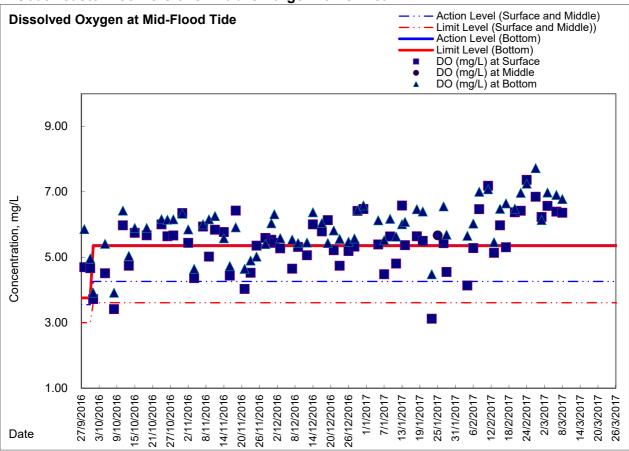
Graphic Presentation of Enhanced Water Monitoring Results (DO) at Ex-WPCWA SW - South-western corners of ex-Public Cargo Works Area

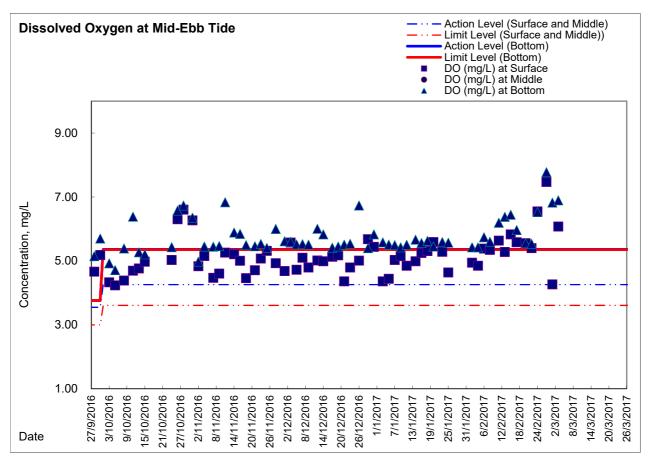






Graphic Presentation of Enhanced Water Monitoring Results (DO) at Ex-WPCWA SE - South-eastern corners of ex-Public Cargo Works Area







Appendix 5.1

Event Action Plans



Event/Action Plan for Construction Noise

EVENT		A	CTION	
	ET	IEC	ER	CONTRACTOR
Action Level being exceeded	 Notify ER, IEC and Contractor; Carry out investigation; Report the results of investigation to the IEC, ER and Contractor; Discuss with the IEC and Contractor on remedial measures required; Increase monitoring frequency to check mitigation effectiveness. (The above actions should be taken within 2 working days after the exceedance is identified) 	 Review the investigation results submitted by the ET; Review the proposed remedial measures by the Contractor and advise the ER accordingly; Advise the ER on the effectiveness of the proposed remedial measures. (The above actions should be taken within 2 working days after the exceedance is identified) 	 Confirm receipt of notification of failure in writing; Notify Contractor; In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented; Supervise the implementation of remedial measures. (The above actions should be taken within 2 working days after the exceedance is identified) 	 Submit noise mitigation proposals to IEC and ER; Implement noise mitigation proposals. (The above actions should be taken within 2 working days after the exceedance is identified)



EVENT	ACTION											
	ET	IEC	ER	CONTRACTOR								
Limit Level being exceeded	 Inform IEC, ER, Contractor and EPD; Repeat measurements to confirm findings; Increase monitoring frequency; 4. Identify source and investigate the cause of exceedance; 5. Carry out analysis of Contractor's working procedures; 6. Discuss with the IEC, Contractor and ER on remedial measures required; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; If exceedance stops, cease additional monitoring. (The above actions should be taken within 2 working days after the exceedance is identified) 	actions; 2. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly.	 Confirm receipt of notification of failure in writing; Notify Contractor; In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented; Supervise the implementation of remedial measures; If exceedance continues, consider stopping the Contractor to continue working on that portion of work which causes the exceedance until the exceedance is abated. (The above actions should be taken within 2 working days after the exceedance is identified) 	 Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC and ER within 3 working days of notification; Implement the agreed proposals; Submit further proposal if problem still not under control; Stop the relevant portion of works as instructed by the ER until the exceedance is abated. (The above actions should be taken within 2 working days after the exceedance is identified) 								



Event / Action Plan for Construction Air Quality

EVENT		ACTION			
EVENI	ET	IEC	ER	CONTRACTOR	
ACTION LEVEL					
1. Exceedance for one sample	 Identify source, investigate the causes of exceedance and propose remedial measures; Inform IEC and ER; Repeat measurement to confirm finding; Increase monitoring frequency to daily. (The above actions should be taken within 2 working days after the exceedance is identified) 	 Check monitoring data submitted by ET; Check Contractor's working method. (The above actions should be taken within 2 working days after the exceedance is identified) 	Notify Contractor. (The above actions should be taken within 2 working days after the exceedance is identified)	 Rectify any unacceptable practice; Amend working methods if appropriate. (The above actions should be taken within 2 working days after the exceedance is identified) 	
2. Exceedance for two or more consecutive samples	 Identify source; Inform IEC and ER; Advise the ER on the effectiveness of the proposed remedial measures; Repeat measurements to confirm findings; Increase monitoring frequency to daily; Discuss with IEC and Contractor on remedial actions required; If exceedance continues, arrange meeting with IEC and ER; If exceedance stops, cease additional monitoring. (The above actions should be taken within 2 working days after the exceedance is identified) 	 Check monitoring data submitted by ET; Check Contractor's working method; Discuss with ET and Contractor on possible remedial measures; Advise the ET on the effectiveness of the proposed remedial measures; Supervise Implementation of remedial measures. (The above actions should be taken within 2 working days after the exceedance is identified) 	 Confirm receipt of notification of failure in writing; Notify Contractor; Ensure remedial measures properly implemented. (The above actions should be taken within 2 working days after the exceedance is identified) 	 Submit proposals for remedial to ER within 3 working days of notification; Implement the agreed proposals; Amend proposal if appropriate. (The above actions should be taken within 2 working days after the exceedance is identified) 	
LIMIT LEVEL					
1. Exceedance for one sample	 Identify source, investigate the causes of exceedance and propose remedial measures; Inform ER, Contractor and EPD; Repeat measurement to confirm finding; Increase monitoring frequency to daily; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results. (The above actions should be taken within 2 working days after the exceedance is identified) 	 Check monitoring data submitted by ET; Check Contractor's working method; Discuss with ET and Contractor on possible remedial measures; Advise the ER on the effectiveness of the proposed remedial measures; Supervise implementation of remedial measures. (The above actions should be taken within 2 working days after the exceedance is identified) 	 Confirm receipt of notification of failure in writing; Notify Contractor; Ensure remedial measures properly implemented. (The above actions should be taken within 2 working days after the exceedance is identified) 	 Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC within 3 working days of notification; Implement the agreed proposals; Amend proposal if appropriate. (The above actions should be taken within 2 working days after the exceedance is identified) 	
2. Exceedance for two or more consecutive samples	 Notify IEC, ER, Contractor and EPD; Identify source; Repeat measurement to confirm findings; Increase monitoring frequency to daily; Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; Arrange meeting with IEC and ER to discuss the remedial actions to be taken; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; If exceedance stops, cease additional monitoring. (The above actions should be taken within 2 working days after the exceedance is identified) 	 Discuss amongst ER, ET, and Contractor on the potential remedial actions; Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; Supervise the implementation of remedial measures. 	 Confirm receipt of notification of failure in writing; Notify Contractor; In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented; Ensure remedial measures properly implemented; If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated. (The above actions should be taken within 2 working days after the exceedance is identified) 	 Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC within 3 working days of notification; Implement the agreed proposals; Resubmit proposals if problem still not under control; Stop the relevant portion of works as determined by the ER until the exceedance is abated. (The above actions should be taken within 2 working days after the exceedance is identified) 	



Event and Action Plan for Marine Water Quality

EVENT		ACTION		
	ET	IEC	ER	CONTRACTOR
Action level being exceeded by one sampling day	Repeat in-situ measurement to confirm findings; Identify source(s) of impact; Inform IEC and Contractor; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IEC and Contractor; (The above actions should be taken within 1 working day after the exceedance is identified) Repeat measurement on next day of exceedance.	Discuss with ET and Contractor on the mitigation measures; Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly; Assess the effectiveness of the implemented mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)	Discuss with IEC on the proposed mitigation measures; Make agreement on the mitigation measures to be implemented. (The above actions should be taken within 1 working day after the exceedance is identified)	Inform the ER and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment; Consider changes of working methods; Discuss with ET and IEC and propose mitigation measures to IEC and ER; Implement the agreed mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)
Action level being exceeded by more than one consecutive sampling days	Identify source(s) of impact; Inform IEC and Contractor; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IEC and Contractor; Ensure mitigation measures are implemented; Prepare to increase the monitoring frequency to daily; (The above actions should be taken within 1 working day after the exceedance is identified) Repeat measurement on next working day of exceedance.	Discuss with ET and Contractor on the mitigation measures; Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly; Assess the effectiveness of the implemented mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)	Discuss with IEC on the proposed mitigation measures; Make agreement on the mitigation measures to be implemented; Assess the effectiveness of the implemented mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)	Inform the Engineer and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment; Consider changes of working methods; Discuss with ET and IEC and propose mitigation measures to IEC and ER within 3 working days; Implement the agreed mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)



EVENT		ACTION		
	ET	IEC	ER	CONTRACTOR
Limit level being exceeded by one sampling day	Repeat in-situ measurement to confirm findings; Identify source(s) of impact; Inform IEC, contractor and EPD; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IEC, ER and Contractor; Ensure mitigation measures are implemented; Increase the monitoring frequency to daily until no exceedance of Limit level. (The above actions should be taken within 1 working day after the exceedance is identified)	Discuss with ET and Contractor on the mitigation measures; Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly; Assess the effectiveness of the implemented mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)	Discuss with IEC, ET and Contractor on the proposed mitigation measures; Request Contractor to critically review the working methods; Make agreement on the mitigation measures to be implemented; Assess the effectiveness of the implemented mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)	Inform the Engineer and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment; Consider changes of working methods; Discuss with ET, IEC and ER and propose mitigation measures to IEC and ER within 3 working days; Implement the agreed mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)
Limit level being exceeded by more than one consecutive sampling days	Identify source(s) of impact; Inform IEC, contractor and EPD; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IEC, ER and Contractor; Ensure mitigation measures are implemented; Increase the monitoring frequency to daily until no exceedance of Limit level for two consecutive days. (The above actions should be taken within 1 working day after the exceedance is identified)	Discuss with ET and Contractor on the mitigation measures; Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly; Assess the effectiveness of the implemented mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)	Discuss with IEC, ET and Contractor on the proposed mitigation measures; Request Contractor to critically review the working methods; Make agreement on the mitigation measures to be implemented; Assess the effectiveness of the implemented mitigation measures; Consider and instruct, if necessary, the Contractor to slow down or to stop all or part of the marine work until no exceedance of Limit level. (The above actions should be taken within 1 working day after the exceedance is identified)	Inform the ER and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment; Consider changes of working methods; Discuss with ET, IEC and ER and propose mitigation measures to IEC and ER within 3working days; Implement the agreed mitigation measures; As directed by the Engineer, to slow down or to stop all or part of the marine work or construction activities. (The above actions should be taken within 1 working day after the exceedance is identified)



Event and Action Plan for Odour Patrol

Event		ACTION
	Person-in-charge of Odour Monitoring	Implementation Agent Identified by CEDD
Action Level		
Exceedance of Action Level	 Identify source/reason of exceedance; Repeat odour patrol to confirm finding. 	 Carry out investigation to identify the source/reason of exceedance; Rectify any unacceptable practice Implement more mitigation measures if necessary; Inform EPD or MD if exceedance is considered to be caused by expedient connections or floating debris.
Limit Level		
Exceedance of Limit Level	 Identify source / reason of exceedance; Repeat odour patrol to confirm findings; Increase odour patrol frequency; If exceedance stops, cease additional odour patrol. 	 Carry out investigation to identify the source/reason of exceedance. Investigation shall be completed within 2 weeks; Rectify any unacceptable practice; Formulate remedial actions; Ensure remedial actions properly implemented; If exceedance continues, consider what more/enhanced mitigation measures shall be implemented; Inform EPD or MD if exceedance is considered to be caused by expedient connections or floating debris.



Appendix 6.1

Complaints Log



Environmental Complaints Log

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Out	tcome	Status
100321a	21/3/2010	ICC Case no. 1-224618029, Ms. Tsang	Location near Tin Hau	Complaint regarding the loud noise and dark smoke in the course of dredging works on 21 March 2010 (Sunday).	1)	A valid Construction Noise Permit no. GW-RS0119-10 was granted from EPD since 18 th Feb. 2010 for the dredging works which carry out at area for North Point Reclamation.	Closed
					2)	Officer from Marine Department, Police and EPD's officer attended the scene for inspection and investigation.	
					3)	The Contractor (CHEC-CRBC JV) strictly comply all the conditions in CNP and take all mitigation measures in order to minimize the potential impacts to surrounding sensitive receivers. A formal letter was issued out by CHEC-CRBC JV and to explain the status of the recent construction activities.	
					4)	No limit level exceedance was recorded on the noise measurement during day time and evening time noise measurement on 23 March 2010. Additional restrict hours noise monitoring at Causeway Bay Community and City Garden was conducted on 5 April 2010 (Public Holiday). No limit level exceedance was recorded in the monitoring.	
					5)	No further complaints were received from Mr. Tsang in the reporting month. The complaint is considered closed.	
100321b	21/3/2010	Unknown	breakwater of the	from dredging activities on 21/3/2010 (Sunday) until 2220 hours and between 1920-1946 hours in the evening of 22 March		A valid Construction Noise Permit no. GW-RS0119-10 was granted from EPD since 18 th Feb. 2010 for the dredging works at area for North Point Reclamation during general holidays including Sunday between 0700-2300 hours and any day not being a general holiday between 1900-2300hours. It is complied with the condition of CNP.	Closed
				2010(Monday).	2)	Officer from Marine Department, Police and EPD's officer attended the scene for inspection and investigation.	
					3)	No limit level exceedance was recorded on the noise measurement during day time and evening time noise measurement on 23 March 2010. Additional restrict hours noise monitoring at Causeway Bay Community and City Garden was conducted on 5 April 2010 (Public Holiday). No limit level exceedance was recorded in the monitoring.	
					4)	No further complaints were received in the reporting month. The complaint is considered closed.	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Out	tcome	Status
100504	4/5/2010	Public complainant received by ICC (ICC case: 1- 233384048)	Watson Road	Complaint on the noise nuisance due to the large scale of dredging machine (face to Island East Corridor) in particular the hours 1900 to 0800 and request to reduce the noise level.	,	Contractor for HY/2009/11 was granted valid Construction Noise Permit no. GW-RS0119-10 for their dredging works. Contractor has implemented mitigation measures to reduce the working hour not later than 2230. According to RSS 's record, no more daytime and night time dredging since the departure of the split hopper barge from the workplace on 29 April 2010 at 1900 hrs to 5 May 2010. No further complaints were received in the reporting month. The complaint is considered closed.	Closed
100731	31/7/2010	Mr. Lee received by ICC (CC Case: 1-250702681)		Complaint on the noise nuisance due to the dredging works. Three construction plants were operated concurrently.	1) 2) 3) 4)	Contractor for HY/2009/11 was granted valid Construction Noise Permit no. GW-RS0371-10 for their dredging works. There was only 1 grab dredger operated by Contractor within NPR project site area for dredging works. No noise exceedance was recorded at noise monitoring station at Victoria Centre on 27 July and 3 August 2010 during daytime and evening time period. It is considered as invalid from the EP and CNP point of view.	Closed
100812	12/8/2010	Mr. Wong, Harbour Heights (Management) Ltd.	Harbour Heights	Management office received their resident complained on the noise nuisance from the dredging works at the marine works area adjacent to the Harbour Height during the period from 0700 to 2200.	1) 2) 3)	Contractor for HY/2009/11 was granted valid Construction Noise Permit no. GW-RS0371-10 for their dredging works. Contractor has implemented mitigation measures to reduce the working hour not later than 2230. No noise exceedance was recorded at noise monitoring station at Victoria Centre on 10 and 17 August 2010 during daytime and evening time period. It is considered as invalid complaint. No further complaints were received in the reporting month. The complaint is considered closed.	Closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Out	tcome	Status
101108	8/11/2010	Mr. Nip received by ICC (CC Case)	Sai Wan Ho	Visual concern around the seaside silt screen outside the WSD freshwater intake pump at Sai Wan Ho (Monitoring station ref no WSD15)	1)	Contractor for HY/2009/11has been regular checked of condition and removal of trapped rubbish before the dismantling of the floating silt screen to be replaced by wall mount silt screen.	Closed
				station et no wob 15)	2)	Follow-up action had been immediately carried out to check and clear the floating refuse around the seaside silt screen after receipt of the complaint.	
					3)	Removal of seaside silt screen outside the WSD freshwater intake (WSD15) by contractor HY/2009/11 was checked and confirmed dated 9 November 2010. Silt screen has been deployed into the existing steel frame at WSD15 for the protection of WSD salt water intake.	
101110	10/11/2010	Mr. Wong, Harbour Heights (Management) Ltd.	Harbour Heights	Management office received their resident complained on the noise nuisance from the power mechanical equipment during the 0700 to 2200hrs	,	Contractor for HY/2009/11 was granted valid Construction Noise Permit no. GW-RS0870-10 for their dredging works during evening time. Contractor has implemented mitigation measures to reduce the working hour not later than 2230.	Closed
			2)	No noise exceedance was recorded at noise monitoring station at Victoria Centre on 4 and 10 November 2010 during daytime and evening time period.			
					3)	It is considered as invalid complaint. No further complaints were received in the reporting month. The complaint is considered closed.	
101203	3/12/2010, 01:45a.m.	The resident of Block 11, City Garden by ICC referral from Marine	North Point	Bad odour was generated from the dredging plant off North Point	1)	The first investigation was carried out by Marine Department patrol in the morning on 3 Dec 2010 at around 10:00 and revealed that a few working barges were anchoring in the vicinity without carrying out dredging work.	Closed
		Department			2)	A further specific investigation inspection on contractor's backhoe barge in the vicinity of City Garden was jointly conducted with Engineer Representatives (AECOM/RSS), and ET on 8 Dec 2010 at 11:30. No bad odour was noted during the investigation.	
					3)	Routine dredging operation of the backhoe barge was performed during the jointed investigation inspection and it was revealed that no bad odour was attributed by the dredged materials inspected.	
101206	6/12/2010	Ms Lui, the resident of 27/F, Block 10 City	City Garden, North Point	Two barges were generating noise at 22:00 on 6 December 2010 in which the noise from	1)	ET confirmed the following information with resident site staff on the complaint:	Closed
		Block 10, City		2010 in which the noise from		• It was referred to the filling operation at North Point	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
		Garden by ICC (ICC case: 1- 266039336)		filling operation was louder than the traffic noise & visual impact was generated due to the spot- light pointing directly to the complainant flat, suspected the filling operation was part of Wanchai Development Phase II; Complainant also raised the same complaint to District Councillor, Mr. Hui on 7 Dec 2010 regarding the night-time noise and suspected earlier start of work at 06:30. Complaint also requested for limiting the plant operating hours from 09:00- 21:00.	 Reclamation of Central Wan Chai Bypass site area instead of part of Wanchai Development Phase II; Two derrick barges were in operation at the time of complaint for placing 400 rockfill onto the excavation trench and for levelling the formation level to receive the pre-cast caisson seawall; Flood light on the control mast of derrick barge have no lighting shields for the prevention of glare of flood lights; No starting work on 7 Dec 2010 at 0630hours. PME used in restricted hours were checked and confirmed compliant with valid CNP no. GW-RS0870-10. The noise level recorded on 6 Dec 2010 was complied with the noise criteria during restricted hour; It was found that the occasional noise nuisance might be caused by the hitting or scratching onto the rock surface during loading down the grab onto the Grade 400 rockfill; The absence of the lighting shields at flood light results in visual glare to the complainant at night-time. Contractor was advised to minimize the finishing time of placing Grade 400 rockfill at 2100hrs and switch off all unnecessary flood lights apart from the light for the safety and security purpose; No further complaint was received after implementation of proposed measures 	
110415	15/04/2011	The resident, Mr Law at Victoria Centre by ICC (ICC#1- 281451236)	North Point	A dust generation and a concern of mosquitoes breeding complaint in which suspected the filling operation was part of North Point Reclamation.	 The concerned stockpile was a working stockpile under Contract HY/209/15 and was covered at night time after work. Water spraying on the haul road and potential dust generating material at least 4 times a day was conducted by contractor that complies with the requirement. It is considered invalid but preventive actions can be taken because the stockpile is relatively large and easily visible by complainant. It was recommended that increasing the frequency of water spraying shall be conducted to all potential dust generating materials and activities. Besides, Contractor should consider to cover the idle part of the stockpile The concern of mosquitoes breeding is out the scope of EM&A, the follow-up action is not reported in this monthly EM&A report. 	Closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Out	come	Status
110419	19/04/2011	Ms Chiu at Victoria Centre at Victoria Centre by ICC (ICC# 1- 272874759)	North Point	The episode of night noise on 19/4/11 and 20/4/11 at 2:50 am and the noise lasted for 30 minutes per night.	2)	According to the RSS's record, there was no construction works undertaken under the EP-356/2009 during the concern time period. There was no abnormal real-time noise monitoring data recorded in RTN1 - FEHD Hong Kong Transport Section Whitefield Depot which is next to the Victoria Centre.	Closed
					3)	It is considered as invalid complaint under this Project.	
110617	9/06/2011	Mr. Law from Victoria Centre Management	North Point	An odour nuisance suspected generating from the discharge point – Channel T at Watson Road in part of the site area was	('	The complaint was received by ET on 13 Jun 2011. During the weekly site inspection on 7 and 17 June 2011, there was no any odour impact detected in the site area.	Closed
			related to CWB under Contract 2	related to CWB under Contract ²⁾	2)	According to the site record, there was muddy water discharged from the unknown source at upstream of Channel T during heavy rainstorm. No any site surface runoff to the Channel T and out of site boundary was observed in the inspection.	
					3)	In order to prevent muddy water washing out to the water body under heavy rainstorm, a silt curtain was installed at the outfall of the channel by Contractor. ET confirmed with the Resident Site Staff that a silt curtain was installed at the outfall of the channel to prevent muddy water washing out to the water body under heavy rainstorm. Besides, regular cleaning of refuse in the channel has been conducted by Contractor.	
					4)	A further site investigation on 28 June 2011 revealed that no odour nuisance was detected at the upstream of the Channel T and no source of odour nuisance was identified at site. As such, it was concluded that the source of odour nuisance was not related to the Project works.	
					5)	Although no source of odour nuisance was identified at site, the muddy water and dirt from the unknown source at upstream of Channel T may cause a potential smell during low tide and low water flow. Contractor was reminded to remove the silt curtain at the channel on non-rainy day so as to avoid the accumulation of the sediment and dirt in the water channel.	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Ou	tcome	Status
110709	09/07/2011	Mr. Au from City Garden Management Office	North Point	A complaint letter to Contractor HY/2009/11 was raised by Cayley Property Management Limit on 9 July 2011 regarding a series of pump breakdown events at seawater intake of City Garden on 4, 6, 7 and 8 July 2011. A lot of rubbish such as plastic bags, nylon bags, nylon- wire mesh was observed sucking from the seawater intake at the seawater front of Block 7 of City Garden affecting the operation of seawater pump plant.	2)	Contractor conducted formation works for installation of caisson seawall at C27, C28, C29 and C30 on 4, 6, 7 and 8 July 2011 and no dredging work was conducted during this time period Water mitigation measures of an 80m long silt curtain at the site boundary in front of City Garden Relocation of silt curtain and silt curtain at the outfall of the channel were provided and maintained to accommodate the site works. All vessels are equipped with rubbish collection facilities and disposed the rubbish regularly. Also, daily cleaning actions had been taken by contractor to minimize floating refuse within the site boundary. Moreover, it has been reported several times that discharged from outfall pipeline outside the site boundary near the intake of the pump maybe considered as another source of rubbish generation. Referring to the record provided by Cayley Property	Closed
					.,	Management Limit, the trapped rubbish was unlikely generated from the construction works. It was considered that complaint is invalid and not related to project.	
110710	09/07/2011	Complainant by ICC (ICC no. 1- 301520309	North Point	It was received at 00:56 on 10 July 2011. There was complained a derrick barge unloading rockfill material off the shore facing the Harbour Grant HK Hotel causing noise nuisance.	1)	ET confirmed with the Resident Site Staff that the complaint was referred to Contract HY/2009/15 for the loading and unloading of fill material at two barges operation in the sea at around 300m adjacent to Island Eastern Corridor (Oil Street Chainage) where is outside the Site of HY/2009/15 in the period of around 19:45 on 9 July to 1:00 on 10 July 2011.	Closed
					2)	The material loading and unloading operation processed in restricted hours was checked without a valid CNP. It was found that the operation was due to an unexpected water leakage of the hopper barge and considered an incident.	
					3)	According to the incident report provided from RSS on 20 July 2011, around 7:30 pm the barge S22 was inclined slightly and slightly water leakage might occur. Due to marine safety concern, the hopper barge would open the hopper to release the contained materials in order to reduce the weight and stabilize the barge. In consider of slight water leakage, the operator decided to use the nearby Derrick Barge ST32 to help for unload the general fill materials first and the unloading operation was started at around 7:45pm, and end at around 1:00 am. Contractor was reminder to provide frequent check of vessel condition	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Out	tcome	Status
						so as to prevent recurrent by barge defect	
110723a	23/07/2011	3/07/2011 Ms. Law at Victoria Centre by ICC no. 1- 303887687	Victoria Centre by ICC no. 1- Department published a notice in their Management Office	1) 2)	It was referred by AECOM to ET on 28 July 2011 RSS confirmed that the notice was prepared by Victoria Centre's Management office to their resident and the advice was only given on the extension construction works (for Contract HY/2009/15) to 7am-9pm from Monday to Saturday except Public Holidays and Sundays.		
				Saturday, Sunday and public holiday.	3)	As a mitigation measure to minimize the noise nuisance in the vicinity of the residents, rock breaking activities will be started at 8am and is expected to be completed by mid- August 2011.	Closed
			4)	No noise exceedance was recorded at construction noise monitoring station at Victoria Centre on 19 and 25 July 2011 during daytime while breaking and excavation works were undertaken during monitoring.			
			5)	In conclusion, it was related to the construction works under Contract HY/2009/15 and mitigation measure was provided. The complainant was satisfied with the arrangement and no further complaint was received after proposed measures.			
110723b	23/07/2011	Ms. Yau at Block	North Point	Reclamation work was	1)	It was referred by AECOM to ET on 8 August 2011	
		2, Victoria Centre by ICC no. 1- 304013959	ICC no. 1- 4013959 t	conducted at Causeway Bay Typhoon Shelter at 7am on 23 July 2011. She complained that the works shall be started later to minimize the noise nuisance to the vicinity of the residents in early morning	2)	With reference to the construction noise monitoring at Vitoria Centre, no exceedance was recorded on 19 and 25 July 2011 during daytime while breaking and excavation works were undertaken during monitoring	
					3)	As a mitigation measure to minimize the noise nuisance in the vicinity of the residents, rock breaking activities will be started at 8am and is expected to be completed by mid- August 2011.	Closed
					4)	In conclusion, it was related to the construction works under Contract HY/2009/15 and mitigation measure was provided. The complainant was satisfied with the arrangement and no further complaint was received after proposed measures.	
110727a	27/07/2011	Mr. Law from Victoria Centre Management Office by ICC no. 1-304616162	North Point	It was complained by Mr. Law from Victoria Centre Management Office on 27 July 2011 regarding construction noise generated by the construction operations of	1) 2) 3)	It was referred by AECOM to ET on 28 July 2011 RSS confirmed to start the rock breaking activities for Contract HY/2009/15 at 8am as a mitigation measure to minimize the noise nuisance in the vicinity of the residents. No noise exceedance was recorded at construction noise	Closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Ou	tcome	Status
				Central-Wanchai Bypass at noon rather than in morning at 7am.		monitoring station at Victoria Centre on 25 July and 4 August 2011 during daytime while breaking and excavation works were undertaken during monitoring.	
					4)	In conclusion, it was related to the construction works under Contract HY/2009/15 and mitigation measure was provided. No further complaint from complainant was received after proposed the mitigation measure.	
110727Ь	27/07/2011	Ms. Chiu by ICC no.1-304615409	North Point	Noise nuisance from the excavation works for the Highways Department adjacent to the Victoria Centre was conducted from 7am	2)	It was referred by AECOM to ET on 28 July 2011 With reference to the construction noise monitoring at Vitoria Centre, no exceedance was recorded on 25 July and 4 and 10 August 2011 during daytime while breaking and excavation works were undertaken during monitoring. As a mitigation measure to minimize the noise nuisance in the vicinity of the residents, rock breaking activities will be	
	08/08/2011		4)	started at 8am. However, complainant did not satisfy with the response on the noise nuisance from the rock-breaking during morning in front of Victoria Centre and then further complaint via 1823 on 7 August 2011.	Closed		
					5) Re	Highways contacted the complainant on 15 August 2011 that the noisy rock breaking operation had been completed. marks: There will be counted as two complaints in this	
					1.0	complaint log.	
110810	10/08/2011	Mr. Yip by ICC no. 1 – 306740207	North Point	Muddy water was discharged from work site to the seafront near Oil Street during heavy rain. The environmental protection measures were not good enough and are needed to rectify.	2)	It was referred by AECOM to ET on 17 August 2011. Confirmed with RE, Muddy water was caused by a heap of earth being washed to the sea by heavy rain. The heap of earth was referred as a small stockpile placed close to the seafront in front of Oil Street within the site area under handover transition period from contract HY/2009/11 to contract HY/2009/19. The necessary mitigation measures to protect the small stockpile against rainfall were missing at the time of complaint.	Closed
					3)	Due to the missing of mitigation measures to protect the small stockpile during handover transition period, loose material was washed into the harbour when heavy rain came. Muddy water was formed and dispersed in the sea that caused the water quality and visual concern to the public. The complaint was considered as valid. Contractors were advised to relocate the loose materials	



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						away from the coastline as far as practicable. Any loose material placed which needed to be placed near the coastline shall be properly compacted or covered as appropriate. To avoid any further environmental deficiency, Contractors shall ensure all necessary environmental mitigation measures will not be missing during site area handover.	
110826	26/08/2011	Grand Hyatt and a complainant by ICC	Wan Chai	Construction noise and vibration nuisance generated from the works at Convention Avenue and inside the HKCEC1 reclamation area.	1) 2)	Confirmed with the Resident Site Staff that the construction works were referred to the Contractor HK/2009/01. The Excavator mounted breaker at Convention Avenue and Drilling rig at HKCEC1 reclamation area were the dominant construction price during this period.	
					3)	dominant construction noise source during this period. The drilling rig at HKCEC1 reclamation area and excavator mounted breaker at Convention Avenue were then temporary suspended after received the complaint.	
					4)	Investigation revealed that the erected noise barrier (4m cantilevered movable noise barrier for the drilling rig and 1m movable noise barrier for the excavator mounted breaker) were not located close to the plants to provide adequate noise screening.	Closed
					5)	Contractor was advised to avoid concurrent operation of construction plants at site. Further enhancement of movable noise barriers at HKCEC1 and providing noise enclosure for the excavator mounted breaker at Convention Avenue are needed.	
					6)	Further site investigation and checking on 31 August and 7 September 2011 revealed that the implemented noise mitigation measures were in proper and minimize the noise impact.	
110826A	26/08/2011	A complaint letter from Mr. Au of Cayley Property of City Garden	North Point	Harbor front adjacent to their cooling water intake suction which caused 3 times of system breakdown of the sea water pump on 9, 22 and 25 August 2011.	1)	It was referred by AECOM to ET on 29 August 2011. Confirmed with the Resident Site Staff that the • construction works were referred to the Contractors HY/2009/11 and HY/2009/19. • The pump is located on the site area of HY/2009/19 • A temporary garbage defender was installed on 23 July 2011 by HY/2009/11 and the shape of the defender was adjusted on 8 August 2011 in order to excluse the outfall.	Closed
						 An ad hoc inspection of the effectiveness of garbage defender was conducted with RSS (CWB project 	



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						team), contractor of HY/200911 and HY/2009/19 and IECon 29 August 2011. Inspection report of it was submitted to RSS on 19 September 2011.	
						 Daily cleaning near the water intake was conducted twice a day by contractor HY/2009/19. 	
						 In response to City Garden request, the contractors have set up the temporary garbage defender in function and collect the floating refuses, but cannot eliminate all refuses, in particular the refuse coming from the seabed 	
					2)	According to the complaint letter from Cayley Property, the outcomes of the preventive measures were not complying wih their expectation.	
					3)	During on-site inspection, floating refuses observed occasionally outside the garbage defender. No conclusion could be made for the source of these floating refuses. On the other hand, some of the refuses were observed floating behind the garbage defender during investigation.	
					4)	All daily cleaning actions had been taken by contractor to minimize floating refuse inside the construction site.	
					5)	It was noted that the cooling water intake was accessible to the public. As such, fish breeding and fishing activities were observed even though a notice has already hoisted. Also, tripping of rubbish by the passers-by could result in a lot of rubbish accumulated around the intake point.	
					6)	Referring to the record provided by CPML, there were a lot of nylon/ plastic bags and nylon wire mesh that matched those rubbishes generated from the public activities.	
					7)	Contractors have fulfilled the requirement of site cleanness and no exceedance was recorded during Water Quality Monitoring. It is consider the cause of this complaint is not related to project and environmental issue in this project as well. No more complaint received after ad-hoc inspection	
111014	14/10/2011	The complainant, Ms. Tam complained via hotline 1823	Wan Chai	The polluted fumes and exhaust from the excavation by sub-contractor of CEDD on pedestrian way outside no.25 Harbour Road (in front of the Harbour Centre)	1) 2)	RSS notified ET to carry out investigation on 17 October 2011. ET confirmed with the Resident Site Staff that the location of the excavator was within site area of Contract no. HK/2009/02 undertaking the water cooling main reprovision works along the Harbour Road. The plants including the excavator have been checked before using	Closed



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-					 at the site. However, the polluted fumes and exhausted from the excavator was caused due to insufficient maintenance of the plant after using at site. 3) After receiving the complaint, the excavator was then removal off-site for checking and maintenance works on 17 October 2011. 4) Contractor was reminded to enhance regular checking and maintenance to all plants at site. 5) RSS has replied to the complainant on the arrangement of the measures taken on 17 October 2011. Complainant was satisfied with the response and follow-up action taken by the Contractor. 	
111104	04/11/2011	Mr. Liu from LCSD complained via Contractor Complaint Hotline	Wan Chai	Complain about a tree near the site of pipe installation works outside Wan Chai Swimming Pool at Harbour Road, the status is not healthy and roof ball of two trees inside the site near Renaissance Hong Kong Harbour View Hotel at Convention Avenue were half cut.	 by the Contractor. 1) ET confirmed with the Resident Site Staff that A tree near the site of pipe installation works outside Wan Chai Swimming Pool at Harbour Road is the Tree no. TA1122 under Contract no. HK/2009/02. Leaves of a branch of this tree were shrivelled. Two trees inside the site near Renaissance Hong Kong Harbour View Hotel at Convention Avenue are the tree nos. A160 and A161 under Contract no. HK/2009/01. Part of roof ball of these two trees was covered by the metal plate. 2) Independent Tree Specialists for these two inspected the trees. Contractor HK/2009/01 has taken the measure as recommend downgrading the soil level around the trunk base. Reinstating of the ground works will be conducted in mid-December 2011. For the tree no. TA1122 under Contract no. HK/2009/02, the brown leaves were removed and fenced the tree with orange net is provided to prevent damage of tree trunk by construction works. The distance between the tree and the edge of the trench is kept approximate 2m. Two Contractors were reminded to carry out regular watering to the trees within their site area. 	Closed
111106	06/11/2011	Police officer	Wan Chai	Construction noise generated from the site at about 6:30 a.m on 6 November 2011 and require to stop the machine operation	 According to the information reported by Contractor, one BC cutter and hoist were operated for Diaphragm Wall construction of Shatin-Central Link to inspect bentonite pipes and ensure no damages and all the joints are tightened in good position. Then, the subcontractor for Diaphragm wall, SAMBO Korean foreman stopped the engine of the BC cutter immediately. The police officer recorded the details and HKID number of the foreman and then left. Due to the different language communication between the police officer and the Korean foreman, no 	Closed



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					2)	CNP was checked by the police officer. ET confirmed with the Resident Site Staff that same issue was also raised out by RSS at about 7:00a.m on the same day. Besides, it was confirmed that there is no valid Construction Noise Permit for the conducted construction works in the period between 2300 and 0700.	
					3)	Due to insufficient communication between Contractor HK/2009/01 and their Korean Sub-contractor, Korean Sub-contractor had not notified to Contractor before carrying out the inspection of the BC cutter, hoists and bentonite pipes at about 6:00a.m to ensure no damages and all the pipe joints should be tightened and in good position.	
					4)	Contractor was advised to enhance the communication between Contractor and sub-contractor and provide sufficient environmental training to all foreman and operators on restricted hour operation. Futhermore, Construction Noise Permit should be checked and in place for the construction works during restricted hour	
					5)	This complaint was considered in relation to the conducted construction works during restricted hours without valid Construction Noise Permit. No more construction works were conducted during night time period. The construction works will be conducted in accordance with the time period stated in valid CNP. This complaint will be kept in view of any follow-up action from the relevant government activities.	
120405	05/04/2012	N/A	North Point	A complaint regarding excessive noise from construction sites of CBTS was observed daily before 7:30am except on public holidays, and the noise source was mainly from piling works. The complainant requested that construction works should start after 8:30am to avoid nuisance to nearby residents and a speedy follow-up and reply.	2)	RSS notified ET on 5 April 2012. ET confirmed with the Resident Site Staff that no piling works were performed during the concerned period. After reviewing the results of noise monitoring (M2b and M3a), no exceedance was recorded during daytime period and the noise level was below 75dB(A). Site inspection for HY/2009/15 was conducted on 10 April 2012. The condition of noise mitigation measures around CBTS was found satisfactory. RSS confirmed that no pilings were performed during the concerned period. The major works included drilling, diaphragm wall construction and excavations. HyD made a reply to the complainant on 16 April 2012 via 1823. HyD replied that the current works at CBTS were drilling, diaphragm wall construction and deep	Closed



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					from the above works, the Contractor had erected temporary noise barriers and provided noise blankets on plants. RSS would continue to work with the Contractor on the effectiveness of the environmental mitigation measures implemented on site. No further complaint was received after the response.	
130308	06/03/2013	ICC Case#1- 407181502	Tin Hau	A complaint regarding the dropping of fine rock material into surrounding waterbody was observed during rock breaking operation with two excavators in active operation at the Eastern Breakwater of Causeway Bay Typhoon Shelter near the North Point lighthouse.	 RSS notified ET on 8 March 2013 ET confirmed with RSS that excavation works, installation of buoy, flashing light and silt curtain and dredging works were undertaken at Eastern Breakwater during the concerned period on 6 March 2013. One backhoe equipped with breaker and one derrick barge were confirmed in operation while another backhoe was at idle during the concerned period on 6 March 2013. Reviewing the photo record provided by RSS, the condition of the silt curtain deployed around the Eastern Breakwater on 6 March 2013 was found to be in good condition. It is considered that the silt curtain was properly in place during the concerned period and the concerned act of dropping of fine rock material was confined within the silt curtain boundary without adverse impact to the nearby water quality. Further follow up was conducted on 12 March 2013 during weekly environmental audit inspection, the silt curtain deployed around the concerned area was found to be maintained in good condition and the water quality at the concerned work area was generally satisfactory. No violation of the Environmental Permit condition was found. The contracotr was advised and committed to implement preventive meaures to miminize the potential impact of work including conducting regular diver check to ensure the integrity and the extend of silt curtain deployment and to provide adequtae back up stock of silt curtain for emergency use. 	Closed
140612	12/06/2014	EPD ref: EP/860/F2/24 Annex IV	Wan Chai	The complaint is regarding to the water quality of the waterfront outside the Hong Kong Academy for Performing Arts Theatre Block, where a large piece of muddy water was found.	letter from EPD (ref: EP/860/F2/24 Annex IV) was received	Closed



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					the dispersion was observed partly of outermost layer silt curtain at 1000h up action was requested. It is considered that Contractor's mil would require further review on the seepage of muddy dispersion such inspection check and daily visual ch Additional silt curtain at marine acce by Contractor on 12 June 2014 and curtain were generally in order. Follo further conducted on 16 June 2014. The Contractor's investigation repor	rs. Immediate follow igation measures effectiveness to avoid as regular diver ecking of silt curtains. ass zone was installed the double layer silt aw-up inspection was t on the complaint
140723	21/07/2014	ICC Case Ref: 2-341537112	Works area opposite to Ngan Tao Building	The complaint is regarding to construction noise impact to the complainant who could not sleep due to work and machine at the project site opposite to the Ngan Tao Building.	 case was submitted to EPA via ema Construction noise impact referred to by ET on 25 July 2014 ET confirmed with RSS that horizon of D-wall at Eastern, Southern and N was undertaken by Contractor of HY Causeway Bay Typhoon Shelter bel July 2014 that total 3 numbers of de numbers of saw cut machine were in removal of D-wall at Panel S30A-1 c by Contractor of HY/2009/15 within Typhoon Shelter around 00:25hrs to 2014 that total 1 number of derrick lie According to the relevant site record HY/2009/15, before 23:00hrs on 20 cutting and removal of Diaphragm V Southern and Northern side of TS2 HY/2009/15 within Causeway Bay T 3 nos. of derrick lighter and 3 nos. or were in operation at the above perio 00:25hrs to 00:56hrs on 21 July 201 Panel S30A-1 of TS2 was undertake HY/2009/15 within Causeway Bay T 1 no. of derrick lighter was found op period It was considered the condition of C was not fulfilled by the Contractor of 00:25hrs to 00:57hrs on 21 July 201 Derrick Lighter) on-site could not fol PME grouping requirement(s) as state 	by RSS was receivedFinal reporttal cutting and removal(Issue1) issuedtal cutting and removal0.31 JulyY2009/15 within2014.fore 23:00hrs on 20Further tocomplainantfollow-up, Finalreport (Issue2)complainantfor S2 was undertakenfollow-up, FinalCauseway Bay00:56hrs on 21 Julyghter was in operation.Issued on 12sunder ContractJuly 2014, horizontalJuly 2014, horizontalAug 2014.Yall at Eastern,was conducted underyphoon Shelter. TotalFrom around4, removal of D-wall aten by Contractor ofyphoon Shelter. Totalerating at the aboveNP GW-RS0592-14HY/2009/15. "From4, the PME(s) (1 no. oforow with any givenState



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					 Notwithstanding the above, according to the site recorded provided by the RSS, the derrick lighter was found malfunction at around 23:00hrs on 20 July 2014 while the diaphragm wall cutting procedure was incomplete. Under safety and navigation consideration, the completion of diaphragm wall removal was necessary and of imminent need. 5) The Contractor of HY/2009/15 was advised to review the construction sequence and emergency response procedure for construction activities during restricted hours and night time period to allow for sufficient buffer time for work completion such that the Construction Noise Permit would be followed. Furthermore, the Contractor of HY/2009/15 was suggested to conduct throughout checking of PME used on site prior to work commencement to minimize the potential malfunctioning of PME during the course of work which affect the duration of works. 	
141016	14/10/2014	EPD Ref.: EP860/E2/24 Annex IV ICC complaint received by ET on 10 October 2014	Work site next to new Wan Chai Ferry Pier and opposite to Wan Chai Sports Ground.	Construction noise like piling works was heard on 14 October 2014 night until 23:45 hrs. It was suspected that the noise was emanated from the work site next to new Wan Chai Ferry Pier and opposite to Wan Chai Sports Ground.	A public complaint regarding construction noise impact referred by EPD was received by ET on 16 October 2014 (EPD Ref.: EP860/E2/24 Annex IV dated 16 October 2014). The complainant reported that construction noise like piling works was heard on 14 October 2014 night until 23:45 hrs. It was suspected that the noise was emanated from the work site next to new Wan Chai Ferry Pier and opposite to Wan Chai Sports Ground.	Interim investigation report submitted to EPD on 23 October 2014.
					ET confirmed with the Resident Site Staff that From 19:00hrs to 23:00hrs on 14 October 2014, dredging works was conducted under Contractor of HK/2009/02 at WCR3 Area. Total one grab dredger was in operation. Mitigation measures including provision of steel sheeting screening to the power generation part of the grab dredger was implemented by the Contractor of HK/2009/02. From 23:00 hrs to 05:00 hrs, dredging works was conducted under Contractor of HK/2009/02 at WCR3 Area. Total one grab dredger was in operation. Mitigation measures including provision of steel sheeting screening to the power generation part of the grab dredger was implemented by the Contractor of HK/2009/02.	Updated interim investigatio n with supplement ary information submitted to EPD on 17 November 2014 EPD



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
				Nature of Complaint	Outcome From 23:00 hrs to 06:00hrs, panel replacement works was conducted under Contractor of HK/2009/02 at the Temporary Covered Walkway. Total one scissor platform and two hand held drills (battery) were in operation. From 23:00 hrs to 06:00hrs, trial pit works was conducted under Contractor of HK/2009/02 at Hung Hing Road.Total one crane lorry was in operation. According to the relevant site records under Contract HK/2009/02, from 19:00hrs to 23:00hrs on 14 October 2014, dredging works was conducted under Contractor of HK/2009/02 at WCR3 Area. Total one grab dredger was in operation. Mitigation measures including provision of steel sheeting screening to the power generation part of the grab dredger was implemented by the Contractor of HK/2009/02. From 23:00 hrs to 05:00 hrs, dredging works was conducted under Contractor of HK/2009/02. From 23:00 hrs to 05:00 hrs, dredging works was conducted under Contractor of HK/2009/02. From 23:00 hrs to 05:00 hrs, dredging works was conducted under Contractor of HK/2009/02. From 23:00 hrs to 06:00 hrs, panel replacement works was conducted under Contractor of HK/2009/02 at WCR3 Area. Total one grab dredger was in operation. Mitigation measures including provision of steel sheeting screening to the power generation part of the grab dredger was implemented by the Contractor of HK/2009/02. From 23:00 hrs to 06:00 hrs, panel replacement works was conducted under Contractor of HK/2009/02 at the Temporary Covered Walkway. Total one scissor platform and two hand held drills (battery) were in operation.	Status advised no further comment on the updated interim report and case closed on 27 Nov 2014.
					held drills (battery) were in operation. From 23:00 hrs to 06:00hrs, trial pit works was conducted under Contractor of HK/2009/02 at Hung Hing Road. Total one crane lorry was in operation.	
					In view of the above findings, no direct information associated with the noise concern was considered available.	



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141110	07/11/2014	EPD Ref.: H05/RS/000278 15-14	Construction site at old Wan Chai Ferry Pier	Malodour of construction plant exhaust from the construction site at old Wan Chai Ferry Pier	A public complaint regarding odour concern referred by EPD was received by ET on 07 November 2014 (EPD Ref.: H05/RS/00027815-14 dated 10 November 2014).	Interim investigation report
		EPD complaint received by ET on 10 November		was scented that affecting the swimmers at Wan Chai Swimming Pool.	The complainant reported that Malodour of construction plant exhaust from the construction site at old Wan Chai Ferry Pier was scented that affecting the swimmers at Wan Chai Swimming Pool.	submitted to EPD on 17 November 2014.
		2014			ET confirmed with the Resident Site Staff that	
					ELS works was conducted on 7 November 2014 during daytime at Portion 2 (Area oppsite to WanChai Swimming Pool).	EPD advised no comment on the interim
					Total 3 nos. of excavators, 2 nos. of crawler cranes, 2 nos. of generator, 1 no. of crane lorry and 2 no. of dump trucks were operated.	report and case closed on 1 Dec 2014.
					Demolition works was conducted on 7 November 2014 during daytime at West of old Wan Chai Ferry Pier.	
					Total 2 nos. of excavators, 1 no. of derrick barge and 1 no. of tug boat were operated.	
					Dredging works was conducted on 7 November 2014 during daytime at WCR3 (East of old Wan Chai Ferry Pier)	
					Total 1 no .of dredger, 1 no. of hopper and 1 no. of tug boat were operated.	
					According to the relevant site records under Contract HK/2009/02, ELS works was conducted on 7 November 2014 during daytime at Portion 2 (Area oppsite to WanChai Swimming Pool). Total 3 nos. of excavators, 2 nos. of crawler cranes, 2 nos. of generator, 1 no. of crane lorry and 2 no. of dump trucks were operated. Demolition works was conducted on 7 November 2014 during daytime at West of old Wan Chai Ferry Pier. Total 2 nos. of excavators, 1 no. of derrick barge and 1 no. of tug boat were operated.	
					Follow-up inspection was conducted during weekly environmental inspection on 13 November 2014, no dark smoke emission was observed from the PMEs operating on- site. The condition of chemical waste storage was considered satisfactory and no malodour was identified. Despite no information related to malodour was identified, the Contractor was reminded to conduct regular checking on the condition of PMEs to ensure only well maintained PMEs are used on site.	



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					Based on the relevant information provided by RSS, despite no information associated with the malodour concern was identified after investigation, the Contractor was reminded to conduct regular checking on the condition of PME used on site to ensure only well maintained PME are used on site The interim report would be submitted to EPD on 17 November 2014.	
141113	12/11/2014	EPD Ref.: H05/RS/000282 53-14 EPD complaint received by ET on 13 November 2014	Construction site at old Wan Chai Ferry Pier	Malodour and dark smoke emission from an excavator located at the construction site at old Wan Chai Ferry Pier was observed that affecting the pedestrians.	A public complaint regarding odour concern referred by EPD was received by ET on 13 November 2014 (EPD Ref.: H05/RS/00028253-14 dated 13 November 2014). The complainant reported thatMalodour and dark smoke emission from an excavator located at the construction site at old Wan Chai Ferry Pier was observed that affecting the pedestrians. (Contract HK/2009/02) ET confirmed with the Resident Site Staff that demolition works was conducted under Contract HK/2009/02 on 12 November 2014 during daytime at old Wan Chai Ferry Pier. Total 2 nos. of excavators, 1 no. of derrick barge and 1 no. tug boat were operated. According to the relevant site records under Contract HK/2009/02, demolition works was conducted on 12 November 2014 during daytime at old Wan Chai Ferry Pier. Total 2 nos. of excavators, 1 no. of derrick barge and 1 no. tug boat were operated. In addition, investigation found that due to malfunctioning of one of the excavators deployed at old Wan Chai Ferry Pier, dark smoke was emitted from the defective excavator for a short period of approximately 30 seconds at around 15:00 hrs on 12 November 2014. The operation of excavator was immediately suspended and followed by repair works. The normal operation of the excavator was resumed after repair. Follow-up inspection was conducted during weekly environmental inspection on 13 November 2014, no dark smoke emission was observed from the PMEs operating on- site and the Contractor of HK/2009/02 was reminded to conduct regular checking on the condition of PMEs to ensure only well maintained PMEs are used on site.	Interim investigation report submitted to EPD on 19 November 2014. EPD advised no comment on the interim report and case closed on 8 Dec 2014.



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141121	Not Specified	EPD Ref: H08/RS/28263-14 EPD complaint information and findings was received by ET via email on 21 Nov 2014	Causeway Bay Typhoon Shelter	Resident in Hing Fat Street complaining about loud noise from dredging work in CBTS up to 10pm at night.	 EPD received a construction noise complaint from dredging works at Causeway Bay Typhoon Shelter and a resident in Hing Fat Street complaining about loud noise from dredging work in CBTS up to 10pm at night. EPD investigation found that the operation of a derrick barge is covered by CNP no. GW-RS0701-14. EPD reminded the Contractor of HY/2011/08 to ensure the work strictly follow the permit conditions and endeavor to minimize the noise as so not to disturb the nearby residents. 	Complaint case handled by EPD and relevant investigation findings was sent to ET on 21 November 2014
150127	21 Jan 2015	EPD complaint (EPD Ref.: H05/RS/00001 725-15) received by ET on 27 January 2015 and further information from EPD regarding the updated location under complaint was received by ET on 30 January 2015	A portion of Hung Hing Road immediately to the east of Marsh Road near SPCA	Construction dust and grit was emitted from the construction site to the carriageway causing nuisance to the public.	A public complaint regarding air quality impact referred by EPD was received by ET on 27 January 2015 (EPD Case Ref.: H05/RS/00001725-15 dated 27 January 2015) and further information from EPD regarding the updated location under complaint was received by ET on 30 January 2015. The complainant reported that construction dust and grit was emitted from the construction site to the carriageway causing nuisance to the public. ET confirmed with the Resident Site Staff that the major construction activities around the concerned location conducted on 21 January 2015 include breaking of seawall blocks and D-wall at TPCWAW; concreting, grouting and drilling works at TPCWAW;reclamation/ backfilling works at TPCWAW Mitigation measures implemented by the Contractor for the above construction works include spraying haul road with water; covering bagged cement with tarpaulin; providing three sided and top covering for grouting stations; providing water spraying to dusty activities such as breaking works According to the relevant site records, breaking of seawall blocks and D-wall, concreting, grouting and drilling works and reclamation/ backfilling works were	Interim report submitted to EPD on 9 February 2015, EPD advised no comment on 27 February 2016 on the interim report submitted and case closed.



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					conducted at TPCWAW. Dust mitigation measures including spraying haul road with water, covering bagged cement with tarpaulin, providing three sided and top covering for grouting stations and water spraying to dusty activities such as breaking works were implemented by the Contractor of HY/2009/15 near the concerned location on 21 January 2015.	
					Follow-up investigation was conducted on 27 January 2015 during weekly environmental inspection, dust mitigation measures including water spraying for dusty haul road and major dust generation works; and provision of three sides and top covering for grouting station were confirmed in place.	
					In addition, based on the review of the monitoring data of the monitoring station located at the concerned location raised by the complainant, namely monitoring station CMA3a, no action or limit level exceedance was recorded during air quality monitoring conducted on 20 and 21 January 2015. Nevertheless, the Air Quality Health Index (AQHI) recorded by EPD across Western District and Eastern District on the complaint date was ranged from 4 to 10+ indicating a severely high concentration of ambient air pollutants.	
					As such, the site condition under Contract HY/2009/15 at the concerned location was considered to be generally satisfactory and no non-conformity related to cumulative air quality impact was observed. Nevertheless, in view of the public concern, the contractor was reminded to enhance the dust mitigation measures implemented to minimize potential nuisance to nearby public.	
150622	18 June 2015	EPD Ref.:H05/RS/ 00015054-15 dated 8 June	A mooring location near shore and at location outside Wan Chai Sports	Dark smoke and malodour emission was observed from a hopper barge moored near shore and	A public complaint regarding dark smoke and malodour concern referred by EPD was received by ET on 22 June 2015 (EPD Ref.: H05/RS/00015054-15 dated 22 June 2015). The complainant reported that dark smoke and malodour emission was observed from a hopper barge	Interim report submitted to EPD on 29 June 2015 and EPD



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
				Nature of Complaint other construction plants under operation from the reclamation construction site	Outcomemoored near shore and other construction plants under operation from the reclamation construction site with Contract no. HK/2009/02 at location outside Wan Chai Sports Ground caused air pollution. The complainant alleged that the said situation had been observed for a prolonged period.ET confirmed with the Resident Site Staff that reinforced bar fixing and concreting work (on 17 June 2015 only) were conducted at Portion 2 from 15 June 2015 to 19 June 2015. Total 3 nos. of mobile crane were in operation. On 17 June 2015, one no. of concrete pump truck and two nos. of concrete mixer were in operation.Excavation and Lateral Support was conducted at Portions 3 & 4 from 15 June 2015 to 19 June 2015. Total 4 nos. of excavator, 2 nos. of truck and 2 nos. of crawler crane were in operation. In addition, on 15 June 2015, 17 June 2015 and 19 June 2015, 1 no. of derrick barge was moored near Portions 3 & 4 for transportation of the excavated material away from site.According to the relevant site records under Contract HK/2009/02, from 15 June 2015 to 19 June 2015, reinforced bar fixing and concreting work (on 17 June 2015 only) were conducted at Portion 2 and total 3 nos. of mobile crane, one no. of concrete pump truck (on 17	Status advised no comment on 20 July 2016 on the interim report submitted and case closed.
					June 2015 only) and two nos. of concrete mixer (on 17 June 2015 only) were in operation; excavation and lateral support was conducted at Portions 3 & 4 and total 4 nos. of excavator, 2 nos. of truck and 2 nos. of crawler crane were in operation. Based on relevant site record, no hopper barge was moored under Contract HK/2009/02 around the concerned location while 1 no. of derrick barge was moored under Contract HK/2009/02 near Portions 3 & 4 for transportation of the excavated material from Portions 3 & 4 away from site on 15 June 2015,17 June 2015 and 19 June 2015 respectively.	
					Follow-up inspection was conducted during weekly	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
				Nature of Complaint Malodour from marine sediment	 environmental inspection on 25 June 2015, no dark smoke and malodour emission was observed from the PMEs operating on-site. A derrick barge was observed moored near Portions 3 & 4 and excavated material was transferred to the derrick barge by the excavators on land without barge operation and no particular dark smoke and malodour emission was observed. Nevertheless, the Contractor was reminded to conduct regular checking on the condition of the derrick barge and other PMEs deployed on site to ensure only well maintained PMEs are used to avoid potential dark smoke and maldour emission affecting nearby public. A public complaint regarding malodour referred by EPD was received by ET on 23 July 2015 (EPD Ref.: H05/RS/00018040-15 dated 23 July 2015). The complainant reported that malodour from marine sediment was scented at ex-Wanchai ferry pier near route 720 & 722 bus stop. (Contract HK/2009/02). ET confirmed with the Resident Site Staff that Rockfill placing works was conducted by one derrick barge at the concerned location (WCR3) under Contract HK/2009/02 on 20 July 2015. No marine sediment was stored or placed on site at the concerned location under Contract HK/2009/02 on 20 July 2015. 	Status Interim report submitted to EPD on 30 July 2015. EPD advised no comment on 17 August 2015 on the interim report submitted and case closed.
					According to the relevant site records under Contract HK/2009/02, rockfill placing works was conducted by one derrick barge at WCR3 area on 20 July 2015 and no marine sediment was stored or placed on site at the concerned location on the concerned date. Follow-up inspection was conducted during weekly environmental inspection on 29 July 2015. No marine sediment was observed stored or placed at the concerned location while it was noted that a culvert outfall with potential odour concern is located adjacent to the concerned location.	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					Nevertheless, the Contractor was reminded to review the handling procedures in case of any future marine sediment handling at the concerned location and to consider the implementation of mitigation measures as appropriate to minimize potential malodour impact to nearby public.	
150904	01 Sept 2015	EPD Ref.: H05/RS/0002 2241-15 dated 04 September 2015 received by ET on 4 September 2015	East of New WanChai Ferry Pier	Dropping of excavated material from land to sea during laoding of material	A public complaint regarding dropping of excavated material from land to sea referred by EPD was received by ET on 04 September 2015 (EPD Ref.: H05/RS/00022241-15 dated 04 September 2015). The complainant reported that dropping of excavated materials from land to sea during loading of materials by excavator at the construction site to work boat. (Contract HK/2009/02) ET confirmed with the Resident Site Staff that transferring of C&D materials from land to hopper barge by excavator at seaside along CWB Tunnel Portions 3 and 4 was undertaken by Contract HK/2009/02 on 01 September 2015. Mitigation measure including providing tarpaulin sheet to cover the gap between seawall and the hopper barge to prevent dropping of material to the sea was implemented by the Contractor. According to the relevant site records under Contract HK/2009/02, transferring of C&D materials from land to hopper barge by excavator at seaside along CWB Tunnel Portions 3 and 4 was carried out on 01 September 2015 and mitigation measures including provision of tarpaulin sheet between seawall and the hopper barge was implemented by the Contractor of HK/2009/02 on the concerned date. Follow-up inspection was conducted during weekly environmental inspection on 10 September 2015. Transferring of C&D materials from land to barge by excavator was observed at the concerned location and mitigation measures including provision of tarpaulin sheet between seawall and the	Interim report submitted to EPD on 14 September 2015. EPD advised no comment on 5 October 2015 on the interim report submitted and case closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					barge and the material transfer works was generally in order. Nevertheless, the Contractor of HK/2009/02 was reminded to maintain the handling procedure for C&D materials transfer from land to hopper barge and regularly inspect the condition of the tarpaulin sheet provided to ensure the nearby water quality are not affected by the loading and unloading of material from land side to hopper barge. The Contractor was reminded to maintain the handling procedure for C&D materials transfer from land to hopper barge and regularly inspect the condition of the tarpaulin sheet provided to ensure the nearby water quality are not affected by the loading and unloading of material from land side to hopper barge.	
150904	02 Sept 2015	EPD Ref.: H04/RS/0002 2385-15 dated 04 September 2015 received by ET on 04 September 2015	Location outside Fleet Arcade	Construction noise was generated from the construction site of HK/2012/08 at location outside Fleet Arcade during night time on weekdays and daytime during General Holidays. The complainant also concerned construction dust and exhaust emission from derrick barges during transporting C&D material at the site.	A public complaint regarding construction noise and dust and exhaust emission referred by EPD was received by ET on 04 September 2015 (EPD Ref.: H04/RS/00022385-15 dated 04 September 2015). The complainant reported that construction noise was generated from the construction site of HK/2012/08 at location outside Fleet Arcade during night time on weekdays and daytime during General Holidays. The complainant also concerned construction dust and exhaust emission from derrick barges during transporting C&D material at the site. (Contract HK/2012/08) ET confirmed with the Resident Site Staff that from 0800 hrs to 1800 hrs on 30 August 2015, removal of scaffold and timber and installation of bulkhead was undertaken by the Contractor of HK/2012/08 at the concerned location. Total one generator and one circular saw were in operation. From 1900hrs on 30 August 2015 to 0700 on 31 August 2015, no construction works was undertaken by the Contractor of HK/2012/08 at the concerned location.	Interim report submitted to EPD on 14 September 2015. 2 nd interim report submitted to EPD on 17 Dec 2015 3 rd interim report submitted to EPD on 31 Dec 2015



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
LOG NO.	Complaint		Complainant		 From 1900hrs on 31 August 2015 to 0700hrs on 01 September 2015, no construction works was undertaken by the Contractor of HK/2012/08 at the concerned location. From 1900hrs to 2115 hrs on 01 September 2015, unloading of soil was undertaken by the Contractor of HK/2012/08 at the concerned location. Total one derrick barge was in operation. From 2300hrs on 01 September 2015 to 0700hrs on 02 September 2015, no construction works was undertaken by the Contractor of HK/2012/08 at the concerned location. One derrick barge was deployed for unloading of soil on 02 September 2015 during daytime under Contract HK/2012/08 at the concerned location. One derrick barge was deployed for unloading of soil on 02 September 2015 during daytime under Contract HK/2012/08 at the concerned location. Based on the relevant site records, from 0800 hrs to 1800 hrs on 30 August 2015, removal of scaffold and timber and installation of bulkhead was undertaken by the Contractor of HK/2012/08 at the concerned location. Total one generator and one circular saw were in operation and the relevant Construction Noise Permit GW-RS0296-15 for the concerned operation was confirmed in place. From 1900hrs on 30 August 2015 to 0700 on 31 August 2015, no construction works was undertaken by the Contractor of HK/2012/08 at the concerned location and from 1900hrs on 31 August 2015 to 0700hrs on 01 September 2015, no construction works was undertaken by the Contractor of HK/2012/08 at the concerned location and from 1900hrs to 2115 hrs on 01 September 2015, unloading of soil was undertaken by the Contractor of HK/2012/08 at the concerned location. From 1900hrs to 2115 hrs on 01 September 2015, unloading of soil was undertaken by the Contractor of HK/2012/08 at the concerned location. From 1900hrs to 2115 hrs on 01 September 2015, unloading of soil was undertaken by the Contractor of HK/2012/08 at the concerned location.	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					From 2300hrs on 01 September 2015 to 0700hrs on 02 September 2015, no construction works was undertaken by the Contractor of HK/2012/08 at the concerned location. In view of the above, the construction activities conducted under Contract HK/2012/08 during the concerned period was in compliance with the statutory requirement.	
					In addition, one derrick barge was deployed for unloading of soil on 02 September 2015 during daytime under Contract HK/2012/08 at the concerned location. Follow-up inspection was conducted during weekly environmental inspection on 08 September 2015 and no dark smoke emission was observed from the derrick barge moored outside the concerned location. Nevertheless, the Contractor of HK/2012/08 was reminded to conduct regular checking on the condition of the all derrick barges deployed on site to ensure only well maintained equipment are used to avoid potential dark smoke emission affecting nearby public and the Contractor of HK/2012/08 was reminded to upkeep the site control system for construction works carrying out at restricted hours and night time for Construction Noise Permit compliance.	
					The Contractor was reminded to conduct regular checking on the condition of derrick barges deployed on site to ensure only well maintained equipments are used on site to avoid potential dark smoke emission affecting nearby public.	
					The Contractor of HK/2012/08 was reminded to upkeep the site control system for construction works carrying out at restricted hours and night time for Construction Noise Permit compliance.	
150917	17 Sep 2015	A public complaint regarding water quality referred by EPD was	Central and Wan Chai Reclamation coastline (between LUNG WUI ROAD to LUNG WO ROAD,	Silt from Central and Wan Chai Reclamation was spotted along the coastline (between LUNG WUI ROAD to LUNG WO ROAD, Central & Wan	Based on the site records confirmed by RSS, removal of seawall blocks by derrick barge was undertaken by Contract HK/2012/08 at Central Reclamation Phase III works area while mitigation measures including provision of silt curtain implemented by the Contractor of HK/2012/08 during the	Interim investigation report submitted to EPD on 25



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
		received by ET on 17 September 2015	Central & Wan Chai, Hong Kong)	Chai, Hong Kong)	seawall block removal works. According to relevant record, muddy dispersion at HKCEC2W (area opposite to Lung King Street) was observed by the Environmental Team on 14 September 2015 afternoon. The muddy patch was observed dispersing outside the outer layer silt curtain deployed by the Contractor of HK/2012/08 towards the Central Reclamation Phase III area while the outer layer silt curtain was observed partially opened.	September 2015. EPD advised no comment on 14 October 2015 and case closed.
					In view of the above observations, the Contractor was advised to rectify any environmental deficiencies such that adequate protection such as silt curtain shall be provided for exposed soil slope to mitigate for potential runoff related water quality impact to the surrounding waters; outer layer silt curtain deployed shall be entirely closed during works to safeguard the surrounding water quality. Any opening for marine vessel shall be closed promptly after passage and localized silt curtain deployed on site shall be properly maintained to avoid any gap or opening to effectively safeguard the nearby waters.	
151015	11 Oct 2015	A public complaint regarding direct discharge of muddy effluent referred by RSS was received by ET on 14 October 2015	Seafront opposite to Watson Road adjacent to Eastern Breakwater	Pink fluid was observed discharged into marine waters at seafront opposite to Watson Road adjacent to the Eastern Breakwater on 11 October 2015.	Based on the site records confirmed by RSS, no construction activity near the seaside between Eastern Breakwater and the Dumping Jetty was undertaken by Contract HY/2009/19 while at site area away from the seawall, construction of EVB substructure, EVB and APS structure was undertaken on 11 October 2015. In addition, no works involving the use of paint was carried out at the concerned site area (Site Portion between Eastern Breakwater and the Dumping Jetty) and along the alignment of the Culvert T1 under Contract HY/2009/19 and no temporary storage of paint was located at the concerned site area and along the alignment of the Culvert T1 under HY/2009/19 on 11 October 2015.	HyD will consolidate all input from relevant parties to form a reply to ICC.
					Follow-up inspection was conducted during weekly environmental inspection on 14 October 2015. No construction works involving the use of paint was observed undertaken at the concerned location while a few number of small containers of paint was observed placed around the concerned location and the paint containers were sealed and no sign of leakage was observed. The few containers were further checked and was found not matching the pink fluid observed on the complaint date. On the other hand, a culvert discharge outfall was found located within the concerned area where the pink fluid was observed. Based on the above, no direct information indicating the pink	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					fluid was originated from the worksarea under HY/2009/19 was considered available. Nevertheless, the Contractor was reminded that paints stored on site shall be properly labelled and stored in sealed container at weather proof location to avoid potential spillage.	
151028	26 Oct 2015	A public complaint regarding construction noise impact referred by EPD was received by ET on 28 October 2015 (EPD Ref:H05/RS/00 027330-15 Dated 28 October 2015)	Construction Site next to ex-Wan Chai Ferry Pier	Operation of grab dredger at construction site near the ex- Wan Chai Ferry Pier from around 0100 to 0400 hours on 26 October 2015 caused noise nuisance.	According to the relevant site records under Contract HK/2009/02, from 01:00hrs to 04:00hrs on 26 October 2015, rock filling was conducted under Contractor of HK/2009/02 at WCR3 Area. Total one grab dredger was in operation. Mitigation measures including provision of steel sheeting screening to the power generation part of the grab dredger was implemented by the Contractor of HK/2009/02 and the relevant Construction Noise Permit GW-RS1121-15 for the concerned construction works was in place. The construction activity conducted under Contract HK/2009/02 during the concerned period was in compliance with the statutory requirement. Nevertheless, the Contractor was reminded to upkeep the site control system for construction works carrying out at restricted hours and night time for Construction Noise Permit compliance in view of the nearby public concern.	The interim report would be submitted to EPD on 05 November 2015 and EPD advised no comment on 16 November 2016 and case closed.
151116	13 November 2015	A public complaint regarding water quality referred by EPD was received by ET on 16 November 2015 (EPD Ref: H05/RS/000291 26-15)	Construction Site at HKCEC and seafront outside Lung Wo Road	Muddy water was discharged from the construction site at HKCEC and dispersed to seafront outside Lung Wo Road on 13 November 2015 afternoon. The complainant also alleged that the deployment of the silt curtain did not follow the design requirement under the environmental permit that the curtain should be hanged to seabed level	Based on the site records, rock mound trimming works was conducted under Contract HK/2012/08 at HKECE2 area on 13 November 2015 and mitigation measures including provision of localized silt curtain around the works area was implemented by the Contractor. Follow-up inspection was conducted during weekly environmental inspection on 17 November 2015, both outer layer silt curtain and localized layer of silt curtain around the active works area were observed deployed while the localized silt curtain deployed around the marine works area was observed partially opened for marine access. Despite no muddy dispersion was generated around the localized silt curtain enclosed area, the Contractor was advised to promptly improve the condition of the silt curtain to ensure the effectiveness of the mitigation measure deployed and to ensure the silt curtain is closed after marine vessel movement. Based on further review on the current construction stage at HKECE2, the dredging works and trench filling works were completed and filling works were conducted behind seawall or temporarily seawall in form of rockbund, the outer layer of silt curtain currently serves as the additional mitigation measure to	The interim investigation report would be submitted to EPD on 1 December 2015 and record of diving inspection conducted on 27 November 2016 was forwarded to EPD on 4 Dec 2016. EPD advised no further comment on 14 Dec 2015 and case closed.



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					the required silt curtain deployment for safeguarding the water quality in the area. To clarify for the current silt curtain arrangement, the Contractor was advised to submit an updated silt curtain deployment plan with respect to the latest silt curtain arrangement for the current construction stage. In addition, contaminated discharge at Culvert L originating from upstream locations was intermittently observed based on previous site records. Nevertheless, in view of the public concern, the Contractor was reminded to conduct regular checking on the condition and maintenance for the silt curtain deployed on site to ensure the effectiveness of the mitigation measure. A joint meeting for the complaint was held amongst the EPD, WDII RSS team, the ET and the Contractor of HK/2012/08 on 24 November 2015 and a joint silt curtain diver inspection check amongst EPD, ET, IEC, WDII RSS and the Contractor was conducted on 27 November 2015 to confirm the silt curtain condition and the silt curtain deployed at the HKCEC2 water channel was found generally in order.	
160413 (HK20120 8)	13 April 2016	A public complaint referred by EPD was received by ET on 13 April 2016 (EPD Ref.:	Outside the Hong Kong Academy for Performing Arts	Muddy water discharge from construction site	A public complaint regarding muddy water discharge referred by EPD was received by ET on 13 April 2016 (EPD Ref.: H05/RS/00008367-16 dated 13 April 2016). The complainant reported that muddy water was discharged from the construction work of Contract HK/2012/08 to the sea outside the Hong Kong Academy for Performing Arts on 13 April 2016 morning. ET confirmed with the Resident Site Staff that internal	Interim investigation report was submitted to the EPD on 21 April 2016.
		H05/RS/00008 367-16 dated 13 April 2016)			transport of soil to the hopper barge for storage via landing barge was conducted by Contractor of HK/2012/08 during 0800 hours to 1000 hours on 13 April 2016 at the sea outside the concerned location and 3 nos. of dump trucks were deployed for the operation.	EPD advised no further comment on 6 June 2016 on the
					Protection measure including provision of sandbag bunding along the side of the landing barge was implemented by the Contractor of HK/2012/08.	interim report submitted and case
					According to the relevant site records provided by RSS, internal transport of soil to the hopper barge for storage via landing barge was conducted by Contractor of HK/2012/08 during 0800 hours to 1000 hours on 13	closed.



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					April 2016 at the sea outside the concerned location and 3 nos. of dump trucks were deployed for the operation. Protection measure including provision of sandbag bunding along the side of the landing barge was implemented by the Contractor of HK/2012/08. In addition, amber rainstorm warning signal was hoisted from 0630 hours to 1200 hours on 13 April 2016 and during the above time period, muddy water was observed from the upstream of culvert L outside the HK/2012/08 site.	
					Follow up inspection was conducted on 19 April 2016, protection measures including provision of sandbag bunding along the side of the landing barge was implemented and no mud or soil deposition was observed along the seawall and no discharge point was located within the temporary water channel connecting the Culvert L outfall location to the Victoria Harbour. In addition, piling works was observed at the north side of Zone A1 on 19 April 2016 and construction effluent collection from piling work via sedimentation tank to wastewater treatment facility was implemented and steel barrier was installed around the piling works area to mitigate against potential surface runoff related impact.	
					Nevertheless, in view of the public concern, the Contractor was reminded to maintain adequate perimeter embankment protection along the seawall boundary and maintain proper construction effluent collection system to avoid potential runoff related impact to nearby waters.	
160706	30 June 2016	A public complaint referred by EPD was received by ET on 06 July	Construction area near Royal Hong Kong Yacht Club	Derrick barge moored near Royal Hong Kong Yacht Club emitted dark smoke since mid of June 2016.	A public complaint referred by EPD was received by ET on 06 July 2016 (Case Ref.: H05/RS/0016226-16). The complainant reported that a derrick barge in green colour under Contract HY/2009/15 moored near Royal Hong Kong Yacht Club emitted dark smoke since mid of June 2016.	Interim report was submitted to EPD on 14 July 2016.



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
		2016 (Case Ref:. H05/RS/00016 226-16),			ET confirmed with Resident Site Staff that the concerned green derrick barge was identified as Yue Fat 206 (YF 206) and the concerned green derrick barge was operated within the Ex-PCWA area for excavation works intermittently across the period from 15 June 2016 to 30 June 2016. The concerned green derrick barge YF206 within Ex-PCWA area was no longer deployed under Contract HY/2009/15 after 02 July 2016. Follow-up inspection was conducted on 11 July 2016, the concerned derrick barge YF206 was not deployed at the concerned location and no dark smoke was observed from other derrick barge operating on-site. Nevertheless, in view of the public concern, the Contractor of HY/2009/15 was reminded to conduct regular checking and maintenance of all derrick barges deployed on site to ensure only well maintained equipment is used to avoid potential dark smoke	EPD advised no further comment on 20 September 2016 on the interim report submitted and case closed.



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
160825	25 August 2016	A public complaint referred by EPD was received by ET on 25 August 2016 (Case Ref.: H08/RS/00012 592-16)	East of Temporary Reclamation Zone TS3, Causeway Bay Typhoon Shelter	Muddy water was observed at Causeway Bay Typhoon Shelter	A public complaint referred by EPD was received on 25 August 2016 (Case Ref.: H08/RS/00012592-16). The complainant reported that muddy water was observed at Causeway Bay Typhoon Shelter. ET confirmed with the Resident Site Staff that no marine construction activities were undertaken at the concerned location at East of Temporary Reclamation Zone TS3 within Causeway Bay Typhoon Shelther from 14:00hrs to 17:00hrs on 25 May 2016. Site control measures including the following were implemented by the Contractor of HY/2010/08 around the concerned location. Site control measures including i) Wastewater treatment facilities (AquaSed) were installed at TS3 for treatment of wastewater generated during construction activities. Sampling of effluent from AquaSed was conducted by the Contractor of HY/2010/08 and all results complied with the requirements in the Discharge Licence. Visual inspection and pH measurement of effluent were conducted daily by Environmental Supervisors and all results passed. ii) Brick/ earth/ sandbag bunds were installed alongside the site perimeter of TS3 to prevent muddy runoff into the sea. iii) Piping with idled ends were removed to prevent accidental discharge of untreated wastewater. iv) Diver inspection for silt curtains and/ or impermeable barriers was conducted on an ad-hoc basis. vii) Temporary cut slopes were shotcreted or properly covered with tarpaulin sheets. viii) Regular inspections were conducted by the RSS and Contractor's environmental representatives on regular basis on the conditions of mitigation measures implemented on site. Based on the complainant photo information, the exposed soil slope at Temporary Reclamation Zone TS3 were observed protected by covering and enclosed by double layer of impermeable barrier/ silt curtain and no contaminated discharge was identified. In addition, based on information from Hong Kong Observatory, the tidal condition on 25 May 2016 afternoon was found to	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					be ebb-tide while non construction works marine vessel movements around the identified muddy plume within Causeway Bay Typhoon Shelter was observed in the complainant photo information.	
					Based on review on relevant records, no contaminated surface runoff and no contaminated discharge was identified at the concerned location during the environmental site inspection conducted on 25 May 2016. Follow up inspection was conducted on 31 August 2016 and seawall construction and filing works at the Temporary Reclamation Zone TS3 was observed completed. No contaminated discharge and no contaminated surface runoff was found.	
					Nevertheless, the contractor of HY/2010/08 was reminded to maintain appropriate bunding at seawall boundary for protection against potential surface runoff related impact. Also, the Contractor of HY/2010/08 was reminded to maintain proper site drainage for effluent collection and treatment system to ensure the compliance with relevant discharge license.	



Appendix 7.1

Construction Programme of Individual Contracts

Contract No. HK/2009/01 Wan Chai Development Phase II – Central -Wan Chai Bypass at Hong Kong Convention and Exhibition Centre

Construction Activities for Three Months Rolling

Construction Activities	May 2017	June 2017	July 2017
Reinstatement of Amenity Area			
Road and Drain Works	-		

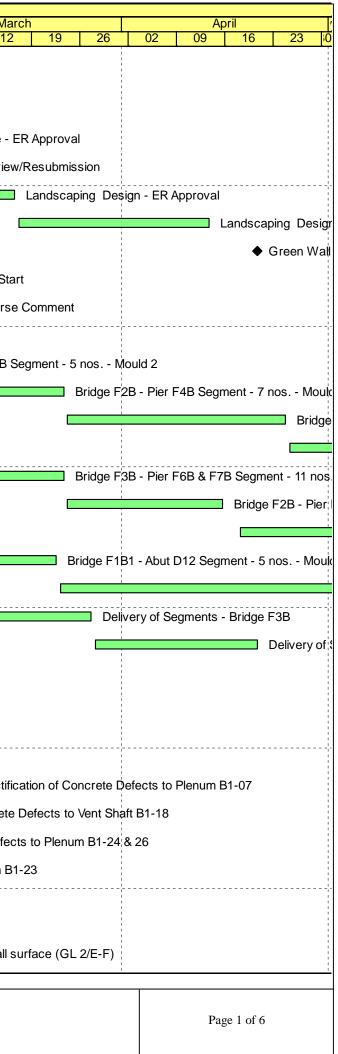
Activity ID	Activity Name	Rem	Start	Finish						F				20	017
		Dur		r i i i i i i i i i i i i i i i i i i i	y 5	22	29)5	Februa	ry 19		26	05	Ma 12
3MRP - Ja	an 2017 to Apr 2017				Т					•		- I	- - - -		
02 - PRE-0	CONSTRUCTION WORKS												 		
02.3 - Metho	od Statement / Shop Drawings														
0230-1410	MS Landscape Deck Structure - ER Approval	28	20-Jan-17	16-Feb-17							MS La	ndscap	be De	ck Stru	ucture - I
0240-1280	Landscaping Design - ER Review/Resubmission	28	20-Jan-17	16-Feb-17							Landso	caping	Desi	ign - EF	R Reviev
0240-1290	Landscaping Design - ER Approval	28	07-Dec-16 A	16-Mar-17	-		 								
0240-1295	Landscaping Design - Fabrication & Delivery	28	17-Mar-17	13-Apr-17											
0240-1297	Green Wall Minimum 2 years Establishment - Finish	0		20-Apr-17											
0240-1298	Green Roof Minimum 2 years Establishment - Start	0	04-Feb-17					♦ Gr	een	Roof M	inimum 2	2 years	Esta	blishm	ent - Sta
0240-2470	MS for for trial erection of green roof - No Adverse Comment	15	30-Oct-16 A	03-Feb-17	┥━		 	MS	for	or trial	erection	of gree	an roc	of - No	Adverse
02.5 - Brida	e Segment/Beam Off-site Precasting														
0250-4015	Bridge F2B - Pier F3B Segment - 5 nos Mould 2	29	20-Jan-17	24-Feb-17			1					Brid	dae F	2B - Pi	ier F3B S
0250-4016	Bridge F2B - Pier F4B Segment - 7 nos Mould 2	23	25-Feb-17	23-Mar-17											
0250-4017	Bridge F1B2 - Pier D12 Segment - 6 nos Mould 2	24	24-Mar-17	24-Apr-17											
0250-4018	Bridge F1B2 - Pier F2B Segment - 6 nos Mould 2	23	25-Apr-17	22-May-17											
0250-4045	Bridge F3B - Pier F6B & F7B Segment - 11 nos Mould 1	52	20-Jan-17*	23-Mar-17											
0250-4050	Bridge F2B - Pier F4B Segment - 6 nos Mould 1	18	24-Mar-17	15-Apr-17									1 1 1		
0250-4055	Bridge F1B2 - Pier F1B Segment - 6 nos Mould 1		18-Apr-17	11-May-17											
	-	20													
0250-4100	Bridge F1B1 - Abut D12 Segment - 5 nos Mould 3	15	06-Mar-17*	22-Mar-17											
0250-4110	Bridge F1B1 - Pier F1A Segment - 13 nos Mould 3	36	23-Mar-17	08-May-17											
A3160	Delivery of Segments - Bridge F3B	14	11-Mar-17	27-Mar-17											
A3170	Delivery of Segments - Bridge F2B	18	28-Mar-17	20-Apr-17											
05 - SECT	ION 2 & 2A OF THE WORKS														
05.1 - Cut &	Cover Tunnel Ch 4855-4932 (APS Footprint)														
05.1.6 - EVB	Sub-structure & Tunnel														
05.1.7 - EV	B & Tunnel Remedial Works												-, ' '		
A2275	EVB - Rectification of Concrete Defects to Plenum B1-07	12	20-Feb-17	04-Mar-17									; ;	EVB	- Rectific
A2276	EVB - Rectification of Concrete Defects to Vent Shaft B1-18	5	14-Feb-17	18-Feb-17							EVB	- Rect	tificati	ion of C	Concrete
A2277	EVB - Rectification of Concrete Defects to Plenum B1-24 & 26	10	02-Feb-17	13-Feb-17			I			E\	/B - Rec	tificatio	n of C	Concre	ete Defec
A2278	EVB - Rectification of Concrete Defects to Plenum B1-23	6	24-Jan-17	01-Feb-17				EVB -	Rec	tificatio	n of Con	crete [befec	ts to Pl	lenum B'
A2279	EVB - Rectification of Concrete Defects to GLA-E/3-5	3	12-Jan-17 A	23-Jan-17	i <mark>i i i i i i i i i i i i i i i i i i </mark>	EV	3 - Rec	tificatio	n of	Concre	te Defec	ts to G	LA-E	E/3-5	
A2314	EVB - (South Side) > Make Good D-wall surface (GL 6/M-O)	3	09-Jan-17 A	23-Jan-17	┥━╸	EV	3 - (Sou	uth Side	e) >	Make G	ood D-w	all sur	face ((GL 6/N	M-O)
A2315	EVB - (North Side) > Make Good D-wall surface (GL 2/E-F)	14	24-Jan-17	10-Feb-17						EVB-	(North S	Sida) <	Make	Good	D-wall s

Rei

Remaining Level of Effort
 Remaining Work

Actual Level of EffortActual Work

Critical Remaining WorkMilestone



ivity ID	Activity Name	Rem	Start	Finish							2	2017
_		Dur			-y 5 22	29	05	February 12	/ 19	26	05	Mar 5 12
A2315.5	EVB - (North Side) > Make Good D-wall surface (GL 2/E-F)	14	15-Feb-17	02-Mar-17							EVB -	(North Sic
A2316	EVB - (West Side) > Make Good D-wall surface (GL A/4-6)	2	03-Mar-17	04-Mar-17							EVE	B - (West
09 - SECTIO	ON 6 OF THE WORKS											
09.1 - Carpar	ks for Harbour Grand Hong Kong					1						
HGHK Repro	vision											
Design, Sub	mission, Material Approval											
Revised Bo	oundary Wall											
A3710	BA14 (Wall)	0		17-Feb-17	-			•	• BA14 (V	Vall)		
Testing and	d Commissioning											
A3770	E & M	10	01-Apr-17	13-Apr-17		 						
A3780	Waterpipe	10	01-Apr-17	13-Apr-17		 						
A3780.3	Statutory Inspection by DB & HGHK	0		13-Apr-17								
A3780.5	Move Carpark to Permanent	1	15-Apr-17	15-Apr-17	-							
Constructio	n series and series an											
Stage 1 Co	nstruction (Below IEC W/B)											
A3880	Tiling (Stage 1)	24	06-Jan-17 A	18-Feb-17		1 1			Tiling (Stage	1)	
Stage 2 Co	nstruction (Below IEC E/B)											
A3910	1800H Boundary Wall (RC)	10	12-Jan-17 A	11-Feb-17	-			1 800H	Boundar	y Wall ((RC)	
A3920	E&M Manhole Construction	12	16-Jan-17 A	11-Feb-17		 		E&M N	1anhole C	construe	ction	
A3930	Waterpipe Installation	6	04-Feb-17	11-Feb-17				Water	oipe Insta	Illation		
A3940	Slab Construction	6	11-Feb-17	17-Feb-17					Slab Co		ion	
A3950	Screeding + Floor + Mix	6	18-Feb-17	24-Feb-17						Scree	ding + Fl	loor + Mix
A3960	Tiling (Stage 2)	24	25-Feb-17	24-Mar-17	-							
A3970	Planting	6	25-Mar-17	31-Mar-17		 						
A3980	E&M Installation	6	25-Mar-17	31-Mar-17								
A3990	Water Point Installation	6	25-Mar-17	31-Mar-17								
	afe Area (outside works boundary)											
	on (Alfresco Cafe Area)				-							
A4060	Material Procurement & Delivery	24	19-Dec-16 A	18-Feb-17		1 1 1			Matari	al Proci	urement	: & Deliver
A4000 A4080	Construction	35	20-Feb-17	31-Mar-17		1					urennenn	& Deliver
			20-1 60-17	31-IMai-17						i		
	ON X OF THE WORKS											
	idges (Bridge C and F)											
10.2.3 - Bridg	e Construction					 						
Remainina L	evel of Effort Remaining Work				Cont			2/4.0				
Actual Level	-			nths Rollir			IY/2009		17 + ~ '	40 A.	004	



tivity ID	Activity Name	Rem Dur	Start	Finish	rv					Februa	ſV		2	2017 Ma
					5	22	2	29	05	12	19	26	05	
Bridge C1								 						
Outstandin	ng Works Between Bridge C1 & E							- - - - -						
A4530	Pier 17 to 18 - Steel Mould Erection	2	20-Jan-17	21-Jan-17		Pier	17 to 1	18 - S	steel Mo	ould Erec	tion			
A4550	Pier 17 to 18 - Concreting	1	23-Jan-17	23-Jan-17		I Pie	er 17 t	o 18	- Conc	eting				
A4570	Pier 16 to 17 - Forwork Erection	2	20-Jan-17	21-Jan-17		Pier	16 to 1	17 - F	orwork	Erection)			
A4590	Pier 16 to 17 - Rebar Bending	2	20-Jan-17	21-Jan-17		Pier	16 to 1	17 - F	Rebar B	ending				
A4610	Pier 16 to 17 - Rebar Fixing	2	23-Jan-17	24-Jan-17		🔲 F	Pier 16	to 17	7 - Reba	ar Fixing				
A4630	Pier 16 to 17 - Steel Mould Erection	2	25-Jan-17	26-Jan-17			Pier	16 to	17 - S	eel Moul	d Erectio	n		
A4650	Pier 16 to 17 - Concreting	1	27-Jan-17	27-Jan-17			I Pie	r 16 t	io 17 - (Concretir	g			
A4670	Pier 15 to 16 - Forwork Erection	2	24-Jan-17	25-Jan-17	-		Pier 1	5 to 1	6 - Foi	work Ere	ection			
A4690	Pier 15 to 16 - Rebar Bending	2	24-Jan-17	25-Jan-17			Pier 1	5 to 1	6 - Re	oar Bend	ing			
A4710	Pier 15 to 16 - Rebar Fixing	2	26-Jan-17	27-Jan-17] Pie	r 15 t	o 16 - I	Rebar Fi	king			
A4730	Pier 15 to 16 - Steel Mould Erection	2	31-Jan-17	01-Feb-17				D P	ier 15 to	o 16 - Ste	el Mould	Erection		
A4750	Pier 15 to 16 - Concreting	1	02-Feb-17	02-Feb-17				0 1	Pier 15	to 16 - C	oncreting	9		
A4770	Temp Lighting (2 Nos)	2	07-Feb-17	08-Feb-17				 		Temp Liç	hting (2 I	Nos)		
A4790	Noise Barrier Const. Pier E1 to D1	12	20-Jan-17	04-Feb-17	1			 	Noise	e Barrier	Const. Pi	ier E1 to [D1	
A4810	Noise Barrier Const. Pier 18 to 19	13	06-Feb-17	20-Feb-17							No	oise Barrie	er Const	t. Pier 18
A4830	Noise Barrier Const. Pier 17 to 18	12	21-Feb-17	06-Mar-17									— N	oise Barı
A4850	Paving & Road Marking	2	07-Mar-17	08-Mar-17										Paving a
10.3 - Middle	Bridge (Bridge F)							- 						
10.3.1 - Pier C	Construction							- - - -						
Pier F1B2 to	F4B							1 1 1 1						
1031-1440	Existing P39/F4B Prepare C.J.	7	04-Apr-17	12-Apr-17				 						
1031-1460	Existing P39/F4B Construct Pier/Column	14	13-Apr-17	02-May-17				 						
Pier F5B to I	F8B							 						
1031-1520	Existing P40/F5B Prepare C.J.	6	21-Mar-17	27-Mar-17										
1031-1540	Existing P40/F5B Construct Pier/Column	14	28-Mar-17	13-Apr-17										
1031-1600	Existing P41/F6B Prepare C.J.	6	07-Mar-17	13-Mar-17				- - - -						
1031-1620	Existing P41/F6B Construct Pier/Column	14	14-Mar-17	29-Mar-17										
1031-1640	Existing P41/F6B Construct Crosshead	18	30-Mar-17	22-Apr-17	┨╻			, 						
1031-1680	Existing P42/F7B Prepare C.J.	6	21-Feb-17	27-Feb-17				1 				Fv	istina P4	12/F7B P
1031-1700	Existing P42/F7B Construct Pier/Column	14	28-Feb-17	15-Mar-17										
1031-1720	Existing P42/F7B Construct Crosshead	18	16-Mar-17	06-Apr-17										

Remaining Level of Effort
 Actual Level of Effort

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Actual Work

Critical Remaining WorkMilestone



vity ID	Activity Name	Rem	Start	Finish							2	2017
		Dur			ry 5 22	29	05	Febru			05	Ma 12
1031-1740	Bearing Installation P42/F7B	4	07-Apr-17	11-Apr-17	<u> </u>		0	1) 26	05	12
1031-1760	Existing P43/F8B Prepare C.J.	6	07-Feb-17	13-Feb-17	-				xisting F	43/F8B P	repare C	.J.
1031-1780	Existing P43/F8B Construct Pier/Column	14	14-Feb-17	01-Mar-17							Existing	P43/F8B
1031-1800	Existing P43/F8B Construct Crosshead	18	02-Mar-17	22-Mar-17								
1031-1820	Bearing Installation P43/F8B	4	23-Mar-17	27-Mar-17								
10.3.2 - Bridg	e Construction											
Bridge F3B					-							
1032-1820	Erect/Assemble LGA at P43-45 + T&C for Erection of Segment	48	14-Feb-17	12-Apr-17								
1032-1840	LG-A Launching - Engage FL at F7B/Pier42	2	15-Apr-17	18-Apr-17								
1032-1860	P42/F7B - Install Pier Segment - Place Pier Segment	1	19-Apr-17	19-Apr-17								
All Middle B	ridge F (Common)											
1032-4350	TCSS/LV Ducts at Pier 50-51	14	04-Feb-17	20-Feb-17	-					CSS/LV	Ducts at	Pier 50-5
1032-4353	TCSS/LV Ducts at Pier 51-52	14	21-Feb-17	08-Mar-17								TCSS/L
1032-4354	TCSS/LV Ducts at Pier 52-53	14	09-Mar-17	24-Mar-17							ĺ	
1032-4355	TCSS/LV Ducts at Pier 53-54	14	25-Mar-17	11-Apr-17								
1032-4356	TCSS/LV Ducts at Pier 55-56	14	12-Apr-17	29-Apr-17								
10.4 - Bridge	Deck Demolition			<u> </u>	-							
10.4.3 - Existi	ing E/B Bridge											
10412-1710	Demolish Temp. E/B Bridge - Crosshead & Pier > Pier 33	9	13-Feb-17	22-Feb-17						Demolis	sh Temp.	E/B Bride
10412-1720	Demolish Temp. E/B Bridge - Deck > Pier 33 to 34 (6 beams)	5	07-Feb-17	11-Feb-17				🗖 Dei	nolish Te	mp. E/B	Bridge - [Deck > Pi
10412-1730	Demolish Dolphin+Pile Cap & Reconstruct Pier 32 Pile Cap	20	20-Mar-17	12-Apr-17								
10412-1740	Demolish Temp. E/B Bridge - Crosshead & Pier > Pier 32	9	02-Feb-17	11-Feb-17	-			Dei	nolish Te	mp. E/B	Bridge - (Crosshea
10412-1750	Demolish Temp. E/B Bridge - Deck > Pier 32 to 33 (6 beams)	5	25-Jan-17	01-Feb-17			Demolis	h Temp	E/B Brid	lge - Dec	k > Pier 3	32 to 33 (6
10412-1760	Demolish Dolphin+Pile Cap & Reconstruct Pier 31 Pile Cap	20	09-Mar-17	31-Mar-17							I	
10412-1770	Demolish Temp. E/B Bridge - Crosshead & Pier > Pier 31	9	20-Jan-17	01-Feb-17			Demolis	h Temp	E/B Brid	lge - Cros	sshead &	Pier > P
10412-1790	Demolish Dolphin+Pile Cap & Reconstruct Pier 30 Pile Cap	20	09-Mar-17	31-Mar-17							I	
10412-2340	Demolish Temp. E/B Bridge - Crosshead & Pier > Pier 21	3	19-Jan-17 A	23-Jan-17	De De	molish Te	emp. E/E	3 Bridge	- Cross	head & Pi	er > Pier	21
10412-2360	Demolish Temp. E/B Bridge - Deck > Pier 19 to 20 (4 beams)	5	20-Jan-17	25-Jan-17	, ,	Demolish	Temp. I	E/B Brid	ge - Dec	k > Pier 1	9 to 20 (4	4 beams)
10412-2380	Demolish Temp. E/B Bridge - Crosshead & Pier > 20	9	26-Jan-17	07-Feb-17		1 1 1		Demolis	n Temp.	E/B Bridg	e - Cross	shead & F
A2790	Erection and Testing of LG-BM at Pier 43-45 - Crane C (MS/20821)	2	19-Dec-16 A	21-Jan-17	Erect	ion and T	esting o	f LG-BN	1 at Pier	43-45 - C	rane C (N	/IS/20821
A2800	Demolish Four(4nos) Beams at Pier 43-42 - by LG-BM	2	23-Jan-17	24-Jan-17	D	emolish I	our(4no	os) Bea	ns at Pie	r 43-42 -	by LG-BN	M
10000	Demolish Pier + Steel Support at Pier 43	9	25-Jan-17	06-Feb-17	-		D	emolish	Pier + St	eel Suppo	ort at Pier	43
A2830						1						

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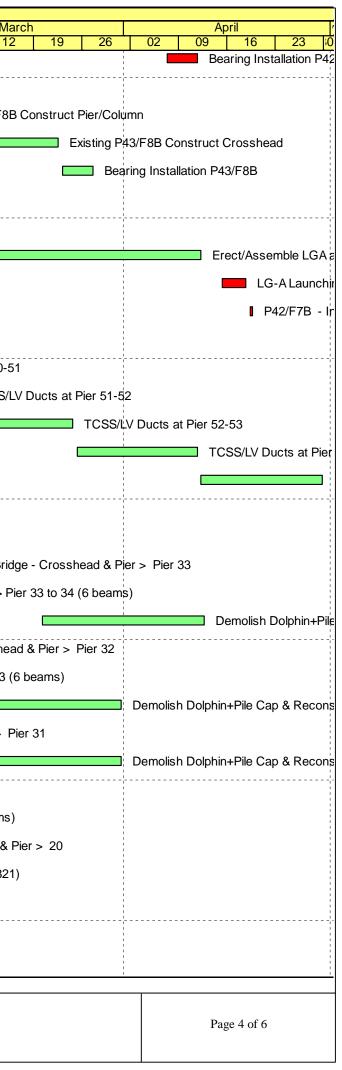
Actual Work

Remaining Level of Effort
 Remaining Work

Actual Level of Effort

Critical Remaining Work

Milestone



Activity ID	Activity Name	Rem	Start	Finish								201	
		Dur			ry 5	22	29	05	Februar 12	y 19	26	05	Marc 12
A3240	Demolish Four(4nos) Beams at Pier 42-41 - by LG-BM	2	08-Feb-17	09-Feb-17	Т	L	•		Demolis	h Four(4nos)) Beam	ns at Pier	42-41 -
A3250	Demolish Pier + Steel Support at Pier 42	9	10-Feb-17	20-Feb-17						Demol	ish Pie	r + Steel	Support
A3260	Launch LG-BM to next Bridge Span	1	21-Feb-17	21-Feb-17						Launo	ch LG-	BM to ne	ext Bridge
A3270	Demolish Four(4nos) Beams at Pier 41-40 - by LG-BM	2	22-Feb-17	23-Feb-17						📕 De	molish	Four(4nd	os) Bear
A3280	Demolish Pier + Steel Support at Pier 41	9	24-Feb-17	06-Mar-17								Dem	nolish Pie
A3290	Launch LG-BM to next Bridge Span	1	07-Mar-17	07-Mar-17								l Lau	unch LG
A3300	Demolish Four(4nos) Beams at Pier 40-39 - by LG-BM	2	08-Mar-17	09-Mar-17									Demolish
A3310	Demolish Pier + Steel Support at Pier 40	9	10-Mar-17	20-Mar-17									
A3320	Launch LG-BM to next Bridge Span	1	21-Mar-17	21-Mar-17							¦ 		
A3330	Demolish Four(4nos) Beams at Pier 39-38 - by LG-BM	2	22-Mar-17	23-Mar-17									
A3340	Demolish Pier + Steel Support at Pier 39	9	24-Mar-17	03-Apr-17									
A3350	Launch LG-BM to next Bridge Span	1	04-Apr-17	04-Apr-17									
A3360	Demolish Four(4nos) Beams at Pier 38-37 - by LG-BM	2	06-Apr-17	07-Apr-17									
A3370	Demolish Pier + Steel Support at Pier 38	9	08-Apr-17	20-Apr-17									
10.5 - Tempo	rary Bridge												
10.5.2 - Temp	oorary Bridge 'TB'												
1052-1260	TB > Demolition of Temporary Bridge "TB'	27	25-Mar-17	28-Apr-17									
A4140	TTA Implementation prior to Demolition	14	09-Mar-17	24-Mar-17									
10.6 - Tunnel	Approach Ramp				1-1								
10.6.1 - Appr	oach Ramp (Excluding Portion IIB)												
Piling Work	s												
1061-3490	Moving Temp Car Park to Permanent Car Park Completed	0		18-Apr-17									
1061-3495	Modify Contractor's Temp Site Office	28	13-Mar-17	18-Apr-17									
1061-3500	Pre Bored H-Pile > Pile Ramp - BM03 A	4	18-Apr-17	21-Apr-17									
Excavation	& ELS Works												
1061-4901.	1 Sheet Piling Works (WF2>B1:46m@1.5m/d) (including Re-boring for remedial works)	27	10-Oct-16 A	22-Feb-17						She	et Pilino	g Works	(WF2>B
1061-4901.	2 Sheet Piling Works (WF1>B3:19m@1.5m/d) (including Re-boring for remedial works)	41	12-Jul-16 A	10-Mar-17			 						Sheet P
1061-4910	Advance Sheet Piling Works + Pre-drilling in Phase 2 - Cul de sac Area (30m)	14	11-Mar-17	27-Mar-17								[
1061-4915	Tam Grouting	43	14-Sep-16 A	13-Mar-17	╞┛						!		🔲 Tan
1061-5040	Recharge Well Installation (8Nos)	0	22-Dec-16 A	10-Jan-17 A	e W	ell Install	ation (8N	los)					
1061-5060	Dewatering Well Installation (14Nos)	18	11-Jan-17 A	11-Feb-17	┢┛				Dewa	tering Well Ir	nstallati	ion (14No	os)
1061-5080	Observation Well Installation (10Nos)	15	13-Feb-17	01-Mar-17			1				i o	bservatio	on Well Ir

Remaining Level of Effort
 Remaining Work

Actual Level of Effort

Actual Work

Critical Remaining Work • Milestone

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12 19	26	02	2	09	16	23	j0
41 - by LG-B	1						
port at Pier 4	2						
ridge Span							
Beams at Pie	1	-					
h Pier + Stee							
n LG-BM to n	1						
nolish Four(4r					-	1	
	molish Pie						
I La	aunch LG-			-		~~~~	
_	Demolish						
L					r + Steel S		
		0			BM to ne		
			— [Demolis	h Four(4r	nos) Be	am
						Demolis	h Pi
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	TTA Imp	olemer	ntatio	n prior t	o Demoli	tion	
					♦ Mov	ing Ten	np (
					Moc	dify Con	trac
						Pre Bo	red
F2>B1:46m@	1.5m/d) (i	ncludi	ng R	e-boring	g for reme	edial wo	rk\$
eet Piling Wo	rks (WF1	-B3-1	9m@	(1.5m/d)	(includin	na Re-bi	orin
						-	
	Advi	ance	Shee	t Piling \	Norks +	Pre-drill	ing
Tam Groutin	ıg						
Vell Installatio	n (10Nos)						
	L						<u>L</u>
				n			
				Pag	ge 5 of 6		

vity ID	Activity Name	Rem	Start	Finish							2017	
		Dur		n i				February	10			Mar
1061-5100	Pumping Test	9	14-Mar-17	23-Mar-17	22	29	05	12	19	26	05	12
1061-5120	Complete Pump Test	0		23-Mar-17						¦ 		
1061-5140	Ch 5285 - 5331 > Excav from Ex. LvI down to 2.5mPD (Ch 5285 - 5331 w/ open cut)	18	15-Aug-16 A	11-Feb-17] Ch 528	5 - 5331 >	Excav fr	om Ex. Lv	l dov
1061-5160	Ch 5234 - 5285 > Excav from Ex. Lvl down to 2.5mPD	20	13-Feb-17	07-Mar-17						1 1 1	🗖 Ch 52	:34 -
1061-5180	Ch 5234 - 5285 > Install 1st Layer of Strut & Waling	9	11-Mar-17	21-Mar-17								
1061-5200	Ch 5234 - 5285 > Excav from 2.5mPD to 1m Below 2nd Layer of Struts	16	24-Mar-17	12-Apr-17								
1061-5220	Ch 5234 - 5285 > Install 2nd Layer of Strut & Waling	9	13-Apr-17	25-Apr-17		·				 		
1061-5240	Ch 5234 - 5285 > Excav to FEL	13	26-Apr-17	11-May-17								
Structure Wo	orks											
1061-5260	Bay 1 - Ch 5322 - 5331 > Base Slab - Blinding Layer	1	13-Apr-17	13-Apr-17								
1061-5280	Bay 1 - Ch 5322 - 5331 > Base Slab - Water Proofing Membrane	2	15-Apr-17	18-Apr-17								
1061-5300	Bay 1 - Ch 5322 - 5331 > Base Slab - Rebar Fixing	5	19-Apr-17	24-Apr-17		·						
10.7 - Section	n X - Miscellaneous Works											
10.7.3 - Open	Area											
1073-1010	Open Area - Pedestrian Parapet -Ch570.40 to Ch540.00	14	17-Feb-17*	04-Mar-17							Open Are	a - F
1073-1010.3	Open Area - Pedestrian Parapet - Ch540.00 to Ch520.00	14	06-Mar-17	21-Mar-17								
1073-1010.5	Open Area - Pedestrian Parapet - Ch0.00 - Ch40.00	18	22-Mar-17	12-Apr-17		·				 		
1073-1010.7	Open Area - Pedestrian Parapet - Ch40.00 - 80.00	18	13-Apr-17	06-May-17								
11 - SECTIC	ON 11 OF THE WORKS											
11.1 - Portion	XIIA - Stage 1											
11.1.1 - Along	J Watson Road - Waterwork & Roadworks (Portion XIIA)											
1110-2820	Permanent Cul-de Sac - Constr. of drainage	25	06-Feb-17*	06-Mar-17		·				l	Perma	nent
1110-2830	Permanent Cul-de Sac - Constr. of watermains	25	17-Feb-17	17-Mar-17						1		
1110-2840	Permanent Cul-de Sac - Constr. of public lighting & telecom (conduits & drawpits)	25	01-Mar-17	29-Mar-17								
1110-2850	Permanent Cul-de Sac - Constr. of (kerbs & pavements)	25	30-Mar-17	02-May-17								
11.1.3 - Along	Tsing Fung St TCSS cable ducting (Portion XIIA)											
						1						

Actual Level of Effort

Actual Work

♦ ♦ Milestone

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		J F	Pumpir	ng Te	est						'
	•	• (Compl	ete F	Pump To	est					· - 1
own	to 2.5	δmΡ	'D (Ch	1 5 28	35 - 533	81 w/ o	per	n cut)			
4 - 52	285 >	Exc	av fro	m E	x. Lvl d	own tc	0 2.5	5mPD			
		Ch	5234 -	- 528	35 > Ins	tall 1s	t La	yer of	Stru	ut & V	Valir
				 			Cł	า 5234	- 5	285 >	> Exc
				 						(Ch 5
											1
						I	D E	Bay 1 -	Ch	5322	2 - 5
								E	Bay	1 - C	h 53
				! ! !						B	ay 1
- Pe	destria	an F	Parape	et -C	h570.4	0 to Cl	h54	0.00			
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ivity ID	Activity Name	Rem	Start	Finish							June				2017		lukz
		Dur				21	2	8	04		11	18	25	02		09	July
3MRP - Ma	y 2017 to Aug 2017																
02 - PRE-C	CONSTRUCTION WORKS													1 1 1 1			
02.5 - Bridge	e Segment/Beam Off-site Precasting							-						1 1 1 1			
0250-4018	Bridge F1B2 - Pier F2B Segment - 6 nos Mould 2	2	25-Apr-17 A	22-May-17		Br	dge F1B	2 - Pier	F2B Seg	gment	t - 6 nos	Mould 2	2				
0250-4019	Bridge F1B2 - Pier F3B Segment - 5 nos Mould 2	14	23-May-17	08-Jun-17						Bridg	e F1B2 -	Pier F3B	Segment	- 5 nos	Mould	2	
0250-4057	Bridge F1B2 - Abut D12 Segment - 6 nos Mould 1	11	12-May-17 A	02-Jun-17				E	ridge F1	B2 - A	Abut D12	Segment	- 6 nos	Mould 1			
0250-4059	Bridge F1B2 - Pier F2B Segment - 5 nos Mould 1	13	03-Jun-17	17-Jun-17								Bridge F	B2 - Pier	F2B Segr	ment -	5 nos	Mou
0250-4110	Bridge F1B1 - Pier F1A Segment - 13 nos Mould 3	14	24-Apr-17 A	06-Jun-17				;	Bric	dge F	1B1 - Pi	er F1A Se	gment - 1	3 nos N	lould 3		
0250-4115	Bridge F1B1 - Pier F2A Segment - 11nos Mould 3	8	09-May-17 A	15-Jun-17				-			Br	idge F1B1	- Pier F2	ASegmer	nt - 11r	nos M	ould
0250-4120	Bridge F1B1 - Pier F3A Segment - 6 nos Mould 3	17	16-Jun-17	06-Jul-17											Bridg	ge F1B1	- Pie
A3180	Delivery of Segments - Bridge F1B2	18	01-Jun-17	21-Jun-17								De	livery of S	egments	- Bridg	je F1B2	
A3190	Delivery of Segments - Bridge F1B1	18	16-Jun-17	07-Jul-17											De	livery of	Seg
3 - PRELI	MINARY WORKS													1 1 1 1			
03.3 - Interfa								-						1 1 1 1			
FEHD Perma								-									
0330-1023	Drilling & Base Plate Installation (M25 - 104Nos)	12	16-May-17 A	03-Jun-17					Drilling &	& Bas	e Plate I	nstallation	(M25 - 10) 4Nos)			
0330-1025	Installation of Pole (25Nos)	13	23-May-17	07-Jun-17					•			ole (25No					
0330-1027	Installtion of Beams (77Nos)	26	24-May-17	23-Jun-17									Installtion	of Beams	s (77N	os)	
0330-1029	Installation of Bondek (Soffit Formworks)	12	16-Jun-17	29-Jun-17		_								Installatio		,	Soffit
0330-1031	Rebar Fixing	7	23-Jun-17	30-Jun-17								_		Rebar F			John
0330-1033	Edges Formworks	2	29-Jun-17	30-Jun-17										; 		orko	
														-			Dee
0330-1035	Concreting of Deck	3	03-Jul-17	05-Jul-17					(D						Concr	eting of	Dec
0330-1043	Construction of Brace Footing	5	20-May-17	25-May-17					of Brace		-			1 1 1 1			
0330-1047	Erection of Bracing Beam (3Nos)	3	26-May-17	29-May-17				Erectio	n of Brac	ing B	8eam (3N			1 1 1 1			
0330-1049	Touch-up Painting	12	02-Jun-17	15-Jun-17								uch-up Pa					
0330-1051	Waterproofing & Slab Reinstatement	7	31-May-17	07-Jun-17				i i	W	/aterp	oroofing	& Slab R e	nstateme	nt			
0330-1055	Construction of Lamp Pole Footing (12Nos)	21	20-May-17	14-Jun-17							Con	struction	of Lamp P	ole Footir	ng (12N	los)	
0330-1057	Drilling for Lamp Pole at Existing Slab (8Nos Poles; M16-64Nos)	8	26-May-17	05-Jun-17					Drillin	ng for	Lamp P	ole at Exis	ting Slab (8Nos Po	les; M1	16-64No	s)
0330-1059	Installation of Lamp Pole (total 20Nos)	14	01-Jun-17	16-Jun-17								nstallation	of Lamp F	ole (total	20Nos	s)	
0330-1061	Breaking Existing Slab for Cross Road Ducting (Approx 300m)	18	02-Jun-17	22-Jun-17								B	reaking E	xisting Sla	ab for (Cross R	.oad
0330-1063	Laying Duct	5	23-Jun-17	28-Jun-17				· 1					Ľ	aying Duc	ct		
0330-1065	Cabling Works	9	29-Jun-17	10-Jul-17				-						1 1 1		Cablir	ıg W
0330-1067	Slab Reinstatement	8	11-Jul-17	19-Jul-17				-						1 1 1 1			
0330-1069	Drilling for Post Anchor Bolts for Facility Area 5 & 10 (172Nos)	6	15-May-17 A	26-May-17	╘		Drillin	g for P	ost Anch	ior Bo	olts for Fa	acility Area	a 5 & 10 (1	72Nos)			
0330-1071	Installation of Post (43Nos)	9	20-May-17	31-May-17				Insta	allation of	f Post	t (43Nos)		- - - - - -			
0330-1073	Construction of Steel Roof	9	25-May-17	05-Jun-17					Cons	structi	ion of St	eel Roof		 			
	Sprinkler System Installation	10	31-May-17	10-Jun-17							orinkler S						

Actual Work

Remaining Level of Effort
 Remaining Work

Actual Level of Effort

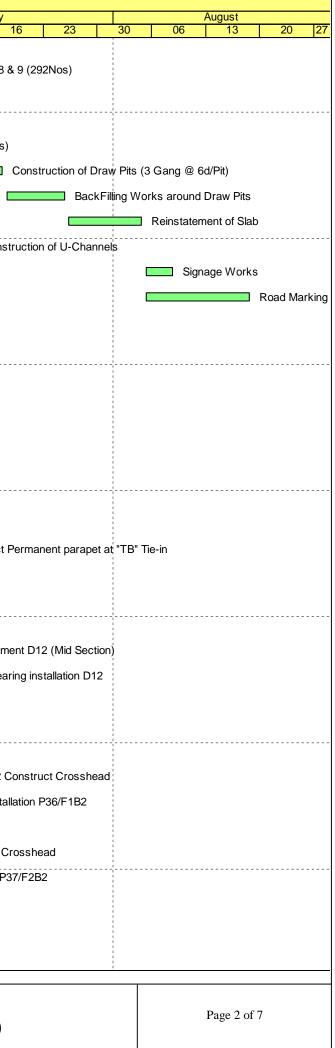
Critical Remaining Work

Contract HY/2009/19 Three Months Rolling Programme (20 May 2017 to 19 August 2017)

Milestone

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Ac	tivity ID	Activity Name	Rem	Start	Finish	2017
			Dur			June July 21 28 04 11 18 25 02 09 11
	0330-1077	T & C of Sprinkler System	6	12-Jun-17	17-Jun-17	T & C of Sprinkler System
	0330-1079	Drilling for Post Anchor Bolts for Facility Area 6, 8 & 9 (292Nos)	15	29-May-17	15-Jun-17	Drilling for Post Anchor Bolts for Facility Area 6, 8 &
	0330-1081	Installation of Post (73Nos)	15	03-Jun-17	20-Jun-17	Installation of Post (73Nos)
	0330-1083	Breaking Slab & Connection to Existing Draw Pits	8	15-May-17 A	29-May-17	Breaking Slab & Connection to Existing Draw Pits
	0330-1085	Breaking Slab & Excavate for Draw Pits (17Nos)	15	31-May-17	16-Jun-17	Breaking Slab & Excavate for Draw Pits (17Nos)
	0330-1087	Construction of Draw Pits (3 Gang @ 6d/Pit)	36	05-Jun-17	17-Jul-17	
	0330-1089	BackFilling Works around Draw Pits	7	18-Jul-17	25-Jul-17	
	0330-1091	Reinstatement of Slab	9	26-Jul-17	04-Aug-17	
	0330-1093	Construction of U-Channels	33	05-Jun-17	13-Jul-17	Constr
	0330-1095	Signage Works	3	05-Aug-17	08-Aug-17	
	A4910	Road Marking & Misc Works	12	05-Aug-17	18-Aug-17	
	05 - SECTIO	ON 2 & 2A OF THE WORKS		-		
		Cover Tunnel Ch 4855-4932 (APS Footprint)				
		Sub-structure & Tunnel				
		& Tunnel Remedial Works				
	A2273	EVB - Rectification of Concrete Defects at Stairs 01 & 6	9	20-Dec-16 A	31-May-17	EVB - Rectification of Concrete Defects at Stairs 01 & 6
		ON X OF THE WORKS		20 200 10/1		
		dges (Bridge D, E and F)				
		e E / Hing Fat Slip Road				
	Bridge Cons					
			- 24	00 hun 47	02 101 47	
	1014-2280		21	08-Jun-17	03-Jul-17	Bridge E - Construct Pe
		Bridge (Bridge F)				
	10.3.1 - Pier C					
	Abutment D					
	1031-1930	Construct Abutment D12 (Mid Section)	30	10-Apr-17 A	06-Jul-17	Construct Abutmer
	1031-1940	Bearing installation D12	7	07-Jul-17	14-Jul-17	Bearir
	Pier F1B2 to					
	1031-1040		5	18-May-17 A	25-May-17	Existing P36/F1B2 and Prepare C.J.
	1031-1060	Existing P36/F1B2 Construct Pier/Column	14	26-May-17	12-Jun-17	Existing P36/F1B2 Construct Pier/Column
	1031-1080	Existing P36/F1B2 Construct Crosshead	18	13-Jun-17	04-Jul-17	Existing P36/F1B2 Co
	1031-1100	Bearing Installation P36/F1B2	4	05-Jul-17	08-Jul-17	Bearing Installa
	1031-1300	Existing P37/F2B2 Construct Pier/Column	14	20-May-17	06-Jun-17	Existing P37/F2B2 Construct Pier/Column
	1031-1320	Existing P37/F2B2 Construct Crosshead	18	07-Jun-17	27-Jun-17	Existing P37/F2B2 Construct Cro
	1031-1340	Bearing Installation P37/F2B2	4	28-Jun-17	03-Jul-17	Bearing Installation P37
	1031-1380	Existing P38/F3B2 Construct Pier/Column	4	28-Apr-17 A	24-May-17	Existing P38/F3B2 Construct Pier/Column
	1031-1400	Existing P38/F3B2 Construct Crosshead	18	25-May-17	15-Jun-17	Existing P38/F3B2 Construct Crosshead
	1031-1420	Bearing Installation P38/F3B2	4	16-Jun-17	20-Jun-17	Bearing Installation P38/F3B2
		ļ				
	-	g Level of Effort Remaining Work				Contract HY/2009/19
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ID	Activity Name	Rem Dur	Start	Finish	-				June			2017	July					Au	igust		_
		Dui				21	28	04	11		25	02 (16	23		30	06	13	20	2
1031-1460	Existing P39/F4B Construct Pier/Column	2	14-Apr-17 A	22-May-17		-	1		Pier/Colum									·		•	
1031-1480	Existing P39/F4B Construct Crosshead	18	23-May-17	13-Jun-17			 		Exist	ting P39/F4B Co	onstruc	t Crosshead									
031-1500	Bearing Installation P39/F4B	4	14-Jun-17	17-Jun-17						Bearing Instal	lation	P39/F4B									
er F5B to F	-8B																				
031-1560	Existing P40/F5B Construct Crosshead	18	27-Apr-17 A	10-Jun-17			1		Existing F	P40/F5B Constru	uct Cro	osshead									
031-1580	Bearing Installation P40/F5B	4	12-Jun-17	15-Jun-17					E	Bearing Installation	on P40	/F5B									
031-1660	Bearing Installation P41/F6B	4	20-May-17	24-May-17		Bearin	g Installatio	on P41/F	6B												
031-1740	Bearing Installation P42/F7B	2	10-May-17 A	22-May-17	_	Bearing li	nstallation F	P42/F7B													
.2 - Bridge	e Construction																				
ridge F3B																					
032-1840	LG-A Launching - Engage FL at F7B/Pier42	2	25-May-17	26-May-17		🗖 LG	-A Launchi	ing - Eng	gage FL at	F7B/Pier42											
	P42/F7B - Install Pier Segment - Place Pier Segment	1	14-Jun-17	14-Jun-17							Pier Se	gment - Place Pi	er Seame	nt							
	P42/F7B - Install Pier Segment - Adjust Segment Level and Location	2	15-Jun-17	16-Jun-17								Segment - Adjus	•		l and Locat	tion					
	P42/F7B - Install Pier Segment - Grouting the Bearing Upper Plinth	2	17-Jun-17	19-Jun-17					_			Pier Segment -	•								
	P42/F7B - Install Pier Segment - Stressing Nailing	2	20-Jun-17	21-Jun-17	_				-			stall Pier Segmer	•		• • •						
	LG-A Launching - Install MS at P42/F7B	1	22-Jun-17	21-Jun-17	_							hing - Install MS		•	lining						
	LG-A Launching - Deactivate the MS at F9B/Pier44 and Engage FL at											Inching - Deactin			OP/Dior44	and E					
	P41/F6B	2	23-Jun-17	24-Jun-17													ngage FL a	al P41/F0	D		
	P41/F6B - Install Pier Segment - Place Pier Segment	1	26-Jun-17	26-Jun-17	_		1					6B - Install Pier	•								
	P41/F6B - Install Pier Segment - Adjust Segment Level and Location	2	27-Jun-17	28-Jun-17								1/F6B - Install P	-								
	P41/F6B - Install Pier Segment - Grouting the Bearing Upper Plinth	2	29-Jun-17	30-Jun-17								P41/F6B - Insta			•		• • • •	er Plinth			
	P41/F6B - Install Pier Segment - Stressing Nailing	2	03-Jul-17	04-Jul-17			, , , ,					P41/F6B									
	P41/F6B - Install Pier Segment - Install MS at F6B/Pier41	1	05-Jul-17	05-Jul-17								P41/F6E			-			Pier41			
032-2080	P42/F7B - T Span Erection (5 pairs)	4	06-Jul-17	10-Jul-17									P42/F7B	- T Sp	oan Erectio	on (5 pa	airs)				
032-2100	P43/F8B(MJ Left) - End Span Erection - Hanging Segments	3	11-Jul-17	13-Jul-17									P43/F	F8B(M	J Left) - Ei	nd Spa	an Erection	- Hangin	ig Segme	ents	
032-2120	P43/F8B(MJ Left) - End Span Erection - Erect Segments	1	14-Jul-17	14-Jul-17									P43	/F8B(I	MJ Left) - I	End \$	oan Erectio	on - Erect	Segmen	nts	
032-2140	P43/F8B(MJ Left) - End Span Erection - Stitching	2	15-Jul-17	17-Jul-17										P43/F	⁻ 8B(MJ Lef	ft) - E	nd Span Ei	ection - S	Stitching		
1032-2160	P43/F8B(MJ Left) - End Span Erection - Formwork Fixing for and Grouting for Bearing	2	15-Jul-17	17-Jul-17	-									P43/F	-8B(MJ Lef	ft) - Ei	nd Span Ei	rection - F	ormworl	k Fixing	for an
1032-2180	P43/F8B(MJ Left) - End Span Erection - Prestress Span Tendons	2	18-Jul-17	19-Jul-17									1	P 4	43/F8B(MJ	Left)	- End Spa	n Erectior	n - Prestr	ress Spa	n Ter
	P43/F8B(MJ Left) - End Span Erection - Remove Hanger Bar & Hanger Beam & Stitching Formwork	1	20-Jul-17	20-Jul-17											P43/F8B(M	IJ Left)	- End Sp	an Erectio	on - Rem	nove Har	iger E
1032-2220	LG-A Launching - Deactivate the MS at F8B/Pier43 and Engage FL at P40/F5B	2	21-Jul-17	22-Jul-17											LG-A La	aunchir	ng - Deact	ivate the	MS at F8	8B/Pier43	3 and
	P40/F5B P41/F6B - T Span Erection (6 pairs)	4	24-Jul-17	27-Jul-17												P41/F	6В - Т Ѕр	an Erecti	on (6 paiı	rs)	
1032-2260	P40/F5B - Install Pier Segment - Place Pier Segment (2nos.)	2	24-Jul-17	25-Jul-17			· 								P 40	0/F5B	- Install Pi	er Segme	ent - Plac	e Pier Se	∋gme
1032-2280	P40/F5B - Install Pier Segment - Adjust Segment Level and Location	3	26-Jul-17	28-Jul-17												P40/	F5B - Inst	all Pier Se	egment -	Adjust S	egme
1032-2300	P40/F5B - Install Pier Segment - Install the Tie & Packing System	2	29-Jul-17	31-Jul-17													P40/F5B ·	Install Pi	ier Segm	ient - Ins	tall th
	P40/F5B - Install Pier Segment - Install MS at P40/F5B (Right) and Engage FL	2	01-Aug-17	02-Aug-17													P40/F5	B - Insta	II Pier Se	gment -	Instal
	at P39/F4B P40/F5B(MJ Right) - End Span Erection - Hanging Segments	2	03-Aug-17	04-Aug-17													P 40	/F5B(MJ	Right) -	End Spa	ın Ere
	P40/F5B(MJ Right) - End Span Erection - Erect Segments	1	05-Aug-17	05-Aug-17													P 4	0/F5B(M	J Right)	- End Sr	ban E

Actual Work

Actual Level of Effort

Critical Remaining Work

♦ ♦ Milestone

Contract HY/2009/19 Three Months Rolling Programme (20 May 2017 to 19 August 2017)

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Activity ID	Activity Name	Rem	Start	Finish							201		1.2
		Dur				21	28 04	June 11	18	25	02	09	July 1
1032-2380	P40/F5B(MJ Right) - End Span Erection - Stitching	2	07-Aug-17	08-Aug-17		·			·				•
1032-2400	P40/F5B(MJ Right) - End Span Erection - Formwork Fixing for and Grouting for Bearing	2	07-Aug-17	08-Aug-17									
1032-2420	P40/F5B(MJ Right) - End Span Erection - Prestress Span Tendons	2	09-Aug-17	10-Aug-17									
1032-2440	P40/F5B(MJ Right) - End Span Erection - Remove Hanger Bar & Hanger Beam & Stitching Formwork	1	11-Aug-17	11-Aug-17									
Bridge F2B	Beam & Stitching Formwork			<u>,</u>			- 1 1 1 1						
1032-2580	P39/F4B - Install Pier Segment - Place Pier Segment	1	07-Aug-17	07-Aug-17									
1032-2600	P39/F4B - Install Pier Segment - Adjust Segment Level and Location	2	08-Aug-17	09-Aug-17									
1032-2620	P39/F4B - Install Pier Segment - Grouting the Bearing Upper Plinth	2	10-Aug-17	11-Aug-17									
1032-2640	P39/F4B - Install Pier Segment - Stressing Nailing	2	12-Aug-17	14-Aug-17									
1032-2660	P39/F4B - Install MS at P39/F4B	2	15-Aug-17	16-Aug-17			-						
1032-2680	P39/F4B - Install Pier Segment - Relocate MS at P40/F5B to left and Engage	2	17-Aug-17	18-Aug-17									
1032-2700	FL at P39/F3B P39/F4B - T Span Erection (6 pairs)	4	19-Aug-17	23-Aug-17									
Bridge F5													
1032-3920	Bridge F5 Precast Beam (5 nos) (by LGA)	14	27-May-17	13-Jun-17				Bridg	e F5 Precast	Beam (5	i nos) (by l	_GA)	
1032-3940	Bridge F5 Deck Construction	30	14-Jun-17	19-Jul-17			- 1 - 1 						
1032-3960	Middle Bridge > Erect Noise Enclosure	40	20-Jul-17	04-Sep-17	-								
All Middle B	ridge F (Common)												
1032-4350		14	26-Jun-17	12-Jul-17					E			— т	CSS/LV
1032-4353	TCSS/LV Ducts at Pier 51-52	14	13-Jul-17	28-Jul-17									
1032-4354	TCSS/LV Ducts at Pier 52-53	14	29-Jul-17	14-Aug-17									
	Deck Demolition												
	ing E/B Bridge												
10412-1670		9	01-Jun-17	10-Jun-17				Demolish	Temp. E/B Br	idae - C	rosshead {	& Pier > P	ier 34 8
10412-1700		20	12-Jun-17	05-Jul-17	-							molish Do	
10412-1730	Demolish Dolphin+Pile Cap & Reconstruct Pier 32 Pile Cap	20	12-Jun-17	05-Jul-17								molish Do	
10412-1760	Demolish Dolphin+Pile Cap & Reconstruct Pier 31 Pile Cap	18	08-Mar-17 A	10-Jun-17				Demolish	Dolphin+Pile (an & R			
10412-1790	Demolish Dolphin+Pile Cap & Reconstruct Pier 30 Pile Cap	9	02-Mar-17 A	31-May-17			Demolish Do		p & Reconstru				
A3450	Demolish Four(4nos) Beams at Pier 35-34 - by LG-BM	2	20-May-17	22-May-17		Demolish F	our(4nos) Bean		-				
A3460	Dismantle LGB Part 2	7	-	31-May-17	-		Dismantle LC		54 - Dy LG-Di	vi ,			
		/	23-May-17	31-1Viay-17				56 Part 2					
	Approach Ramp												
	oach Ramp (Excluding Portion IIB)									-			
Piling Works	,												
1061-3500		4	20-May-17	24-May-17			ed H-Pile > Pile I						
1061-3520	Pre Bored H-Pile > Pile Ramp - BM03 A - (H-Pile + Grouting)	1	25-May-17	25-May-17			pred H-Pile > Pile			e + Grqu	ting)		
1061-3540	Pre Bored H-Pile > Pile Ramp - BM03 B	4	25-May-17	29-May-17			Pre Bored H-Pil						
1061-3560	Pre Bored H-Pile > Pile Ramp - BM03 B - (H-Pile + Grouting)	1	31-May-17	31-May-17			Pre Bored H	-Pile > Pile Ra	amp - BM03 E	3 - (H-P	ile + Groutii	ng)	
1061-3820	Pre Bored H-Pile > Pile Ramp - BN11 A (Low Head Rm)	8	31-May-17	08-Jun-17				Pre Bored H-	Pile > Pile Rai	mp - BN	11 A (Low	Head Rm	ו)
Remaining	g Level of Effort Remaining Work						Contract	ΗΥ/2000	Q/1Q				
	vel of Effort Critical Remaining Work		Th	ree Month	ne D					to 10		st 201	17)
Actual Wo	ork Milestone		1 1 1		13 K		Jyrannik		ay 2017	10 13	Augu	31 201	''

			A
16	23	30	August 06 13 20 27
10	25	30	P40/F5B(MJ Right) - End Spa
			P40/F5B(MJ Right) - End Spa
			P40/F5B(MJ Right) - End 🕻
			P40/F5B(MJ Right) - Enc
			P39/F4B - Install Pier Segment
			P39/F4B - Install Pier Segme
			📕 P39/F4B - Install Pier Seg
			P39/F4B - Install Pie
			P39/F4B - Install
			P39/F4B - Ins
			P39/F4
			
B rio	dge F5 Dec	к Const	ruction
	a at Diar 50	51	
	s at Pier 50	1	
		TC¦SS/L	V Ducts at Pier 51-52
			TCSS/LV Ducts at Pi
	_		
& 35 b	y Crane		
⊦Pile Ca	p & Recon	struct Pi	er 33 Pile Cap
Frie Ca	ip & Recon	strüct Pi	er 32 Pile Cap
C			
			Page 4 of 7

ivity ID	Activity Name	Rem	Start	Finish									2	017	
		Dur				21	28	04	4	June 11	18	25	02	. 09	July
1061-3840	Pre Bored H-Pile > Pile Ramp - BN11 A- (H-Pile + Grouting)	1	09-Jun-17	09-Jun-17							H-Pile > Pile F		-		outing)
1061-3860	Pre Bored H-Pile > Pile Ramp - BN11 B (LHR)	8	31-May-17	08-Jun-17					Pr	e Bored H	I-Pile > Pile Ra	mp - B	N11 B (LH	R)	
1061-3880	Pre Bored H-Pile > Pile Ramp - BN11 B - (H-Pile + Grouting)	1	09-Jun-17	09-Jun-17	 				0 1	Pre Bored	H-Pile > Pile F	Ramp -	BN11 B-	H-Pile + Gr	outing
1061-3900	Pre Bored H-Pile > Pile Ramp - BN12 A (LHR)	8	09-Jun-17	17-Jun-17							Pre Bored H	I-Pile >	Pile Ramp	- BN12 A (I	LHR)
1061-3920	Pre Bored H-Pile > Pile Ramp - BN12 A - (H-Pile + Grouting)	1	19-Jun-17	19-Jun-17							Pre Bore	d H-Pile	> Pile Rar	mp - BN12	A - (H
1061-3940	Pre Bored H-Pile > Pile Ramp - BN12 B (LHR)	8	09-Jun-17	17-Jun-17							Pre Bored H	I-Pile >	Pile Ramp	- BN12 B(LHR)
1061-3960	Pre Bored H-Pile > Pile Ramp - BN12 B - (H-Pile + Grouting)	1	19-Jun-17	19-Jun-17			1				Pre Bore	ed H-Pile	> Pile Rar	mp - BN12	B - (H
1061-3980	Pre Bored H-Pile > Pile Ramp - BN13 A (LHR)	8	19-Jun-17	27-Jun-17	 							Pre	Bored H-F	rile > Pile Ra	mp - I
1061-4000	Pre Bored H-Pile > Pile Ramp - BN13 A - (H-Pile + Grouting)	1	28-Jun-17	28-Jun-17								I Pr	e Bored H	-Pile > Pile R	amp -
1061-4020	Pre Bored H-Pile > Pile Ramp - BN13 B (LHR)	8	19-Jun-17	27-Jun-17								Pre	Bored H-F	²ile > Pile Ra	mp - T
1061-4040	Pre Bored H-Pile > Pile Ramp - BN13 B - (H-Pile + Grouting)	1	28-Jun-17	28-Jun-17								l Pr	e Bored H	-Pile > Pile R	lamp -
1061-4060	Pre Bored H-Pile > Pile Ramp - BN01 A (LHR)	8	28-Jun-17	07-Jul-17										Pre Bored	H-Pile
1061-4080	Pre Bored H-Pile > Pile Ramp - BN01 A - (H-Pile + Grouting)	1	08-Jul-17	08-Jul-17	 									Pre Bore	d H-Pi
1061-4100	Pre Bored H-Pile > Pile Ramp - BN01 B (LHR)	8	28-Jun-17	07-Jul-17										Pre Bored	H-Pile
1061-4120	Pre Bored H-Pile > Pile Ramp - BN01 B - (H-Pile + Grouting)	1	08-Jul-17	08-Jul-17										Pre Bore	d H-P
1061-4140	Pre Bored H-Pile > Pile Ramp - BN05 A (LHR)	8	08-Jul-17	17-Jul-17											— F
1061-4160	Pre Bored H-Pile > Pile Ramp - BN05 A - (H-Pile + Grouting)	1	18-Jul-17	18-Jul-17											0
1061-4180	Pre Bored H-Pile > Pile Ramp - BN05 B (LHR)	8	08-Jul-17	17-Jul-17	 		 								F
1061-4200	Pre Bored H-Pile > Pile Ramp - BN05 B - (H-Pile + Grouting)	1	18-Jul-17	18-Jul-17											0
1061-4220	Pre Bored H-Pile > Pile Ramp - BN06 A (LHR)	8	18-Jul-17	26-Jul-17											
1061-4240	Pre Bored H-Pile > Pile Ramp - BN06 A - (H-Pile + Grouting)	1	27-Jul-17	27-Jul-17											
1061-4260	Pre Bored H-Pile > Pile Ramp - BN06 B (LHR)	8	18-Jul-17	26-Jul-17											
1061-4280	Pre Bored H-Pile > Pile Ramp - BN06 B - (H-Pile + Grouting)	1	27-Jul-17	27-Jul-17	 										
1061-4300	Remaining Bored Piles & Pre-Bored H-Pile Testing	30	22-Jun-17	27-Jul-17											
Excavation	& ELS Works														
1061-4910	Advance Sheet Piling Works + Pre-drilling in Phase 2 - Cul de sac Area (30m)	14	04-Apr-17 A	06-Jun-17					Adva	nce Shee	Piling Works	+ Pre-d	illing in Ph	ase 2 - Cul d	de sac
1061-5100	Pumping Test	9	16-May-17 A	31-May-17			P	umping	Test						
1061-5120	Complete Pump Test	0		31-May-17	 		♦ C	omplete	Pum	p Test					
1061-5180	Ch 5234 - 5285 > Install 1st Layer of Strut & Waing	7	24-Apr-17 A	27-May-17		Ch	1 5 <mark>234</mark>	1 - 5285	> Ins	tall 1st La	/er of Strut & \	Valing			
1061-5200	Ch 5234 - 5285 > Excav from 2.5mPD to 1m Below 2nd Layer of Struts	16	01-Jun-17	19-Jun-17							Ch 5234	- 5285	Excav fro	om 2.5mPD	to 1m
1061-5220	Ch 5234 - 5285 > Install 2nd Layer of Strut & Waling	9	20-Jun-17	29-Jun-17									Ch 5234 - 9	5285 > Insta	ll 2nd I
1061-5240	Ch 5234 - 5285 > Excav to FEL	13	30-Jun-17	15-Jul-17								Ļ] Ch
Structure W	forks				 		1								
1061-5260	Bay 1 - Ch 5322 - 5331 > Base Slab - Blinding Layer	1	20-Jun-17	20-Jun-17							🛿 Bay 1 -	Ch 532	2 - 5331 >	Base Slab -	Blindi
1061-5280	Bay 1 - Ch 5322 - 5331 > Base Slab - Water Proofing Membrane	2	21-Jun-17	22-Jun-17			1				🗖 Bay	1 - Ch	322 - 533	1 > Base Sla	ab - Wa
1061-5300	Bay 1 - Ch 5322 - 5331 > Base Slab - Rebar Fixing	5	23-Jun-17	28-Jun-17								Ba	y 1 - Ch 5	322 - 5331 >	> Base
1061-5320	Bay 1 - Ch 5322 - 5331 > Base Slab - Erect Formworks	4	29-Jun-17	04-Jul-17									Bay	/ 1 - Ch 532	2 - 533

Rem

Actual Work

Remaining Level of Effort
 Remaining Work

Actual Level of Effort Critical Remaining Work

Milestone

					ŀ	August		
16	23		30	C	6	13	20	27
ng)								
ng)								
)								
H-Pile +	- Groutin	g)						
)								
	+ Groutin	a)						
	A (LHR)							
	. ,		0					
	3 A - (H		+ Gro	uting)				
BN13	B (LHR)							
) - BN1	3 B-(H	-Pile	+ Gro	outing)				
ile > Pile	e Ramp -	BN01	IA (L	_HR)				
Pile > P	ile Ramp	- BN	01 A	- (H-Pil	e + Gr	outing)		
ile > Pile	e Ramp -	BN01	B (L	HR)				
Pile > P	ile Ramp	- BN	01 B ·	· (H-Pile	e + Gr	outing)		
Pre Bo	red H-Pi	le > P	ile Ra	mp - BN	105 A ((LHR)		
D Pre E	Bored H-I	Pile >	Pile F	Ramp - E	3N05 A	A - (H-Pile	+ Groutii	ng)
Pre Bo	red H-Pi	le > P	ile Ra	imp - BN	05 B	(LHR)		
						` 3 - (H-Pile	+ Grouti	na)
						amp - BN0		•
	_							,
						Ramp - BN		
	F	re Bo	ored F	I-Pile >	Pile Ra	amp - BN0	6 B (LHR	.)
	0	Pre	Bored	H-Pile >	> Pile F	Ramp - BN	06 B - (ł	H-Pile
		Rem	aining	Bored	Piles &	& Pre-Bore	d H-Pile	Testin
ac Area	(30m)							
n Below	2nd Lay	er of	Struts	i				
d Laver	of Strut 8	& Wal	ina					
-	5285 > I		-	=1				
-l' l								
ding Lay								
	roofing N							
	- Rebar F	_						
331 > B	ase Slab	- Ere	ct Fo	rmwork	S			
						Page 5 of	7	

Activi	ty ID	Activity Name	Rem	Start	Finish	2017
			Dur			June July August 21 28 04 11 18 25 02 09 16 23 30 06 13 20 27
	1061-5340	Bay 1 - Ch 5322 - 5331 > Base Slab - Concreting	1	05-Jul-17	05-Jul-17	Bay 1 - Ch 5322 - 5331 > Base Slab - Concreting
	1061-5360	Bay 2 - Ch 5313 - 5322 > Base Slab - Blinding Layer	1	06-Jul-17	06-Jul-17	Bay 2 - Ch 5313 - 5322 > Base Slab - Blinding Layer
	1061-5380	Bay 2 - Ch 5313 - 5322 > Base Slab - Water Proofing Membrane	2	07-Jul-17	08-Jul-17	Bay 2 - Ch 5313 - 5322 > Base Slab - Water Proofing Membrane
	1061-5400	Bay 2 - Ch 5313 - 5322 > Base Slab - Rebar Fixing	5	10-Jul-17	14-Jul-17	Bay 2 - Ch 5313 - 5322 > Base Slab - Rebar Fixing
	1061-5420	Bay 2 - Ch 5313 - 5322 > Base Slab - Erect Formworks	4	15-Jul-17	19-Jul-17	Bay 2 - Ch 5313 - 5322 > Base Slab - Erect Formworks
	1061-5440	Bay 2 - Ch 5313 - 5322 > Base Slab - Concreting	1	20-Jul-17	20-Jul-17	▮ Bay 2 - Ch 5313 - 5322 > Base Slab - Concreting
	1061-5460	Bay 3 - Ch 5303 - 5313 > Base Slab - Blinding Layer	1	21-Jul-17	21-Jul-17	Bay 3 - Ch 5303 - 5313 > Base Slab - Blinding Layer
	1061-5480	Bay 3 - Ch 5303 - 5313 > Base Slab - Water Proofing Membrane	2	22-Jul-17	24-Jul-17	Bay 3 - Ch 5303 - 5313 > Base Slab - Water Proofing N
	1061-5500	Bay 3 - Ch 5303 - 5313 > Base Slab - Rebar Fixing	5	25-Jul-17	29-Jul-17	Bay 3 - Ch 5303 - 5313 > Base Slab - Rebar F
	1061-5520	Bay 3 - Ch 5303 - 5313 > Base Slab - Erect Formworks	4	31-Jul-17	03-Aug-17	Bay 3 - Ch 5303 - 5313 > Base Slab - I
	1061-5540	Bay 3 - Ch 5303 - 5313 > Base Slab - Concreting	1	04-Aug-17	04-Aug-17	I Bay 3 - Ch 5303 - 5313 > Base Slab
	1061-5560	Bay 6 - Ch 5262 - 5277 > Base Slab - Blinding Layer	1	17-Jul-17	17-Jul-17	▮ Bay 6 - Ch 5262 - 5277 > Base Slab - Blinding Layer
	1061-5580	Bay 6 - Ch 5262 - 5277 > Base Slab - Water Proofing Membrane	2	18-Jul-17	19-Jul-17	Bay 6 - Ch 5262 - 5277 > Base Slab - Water Proofing Membra
	1061-5600	Bay 6 - Ch 5262 - 5277 > Base Slab - Rebar Fixing	6	20-Jul-17	26-Jul-17	Bay 6 - Ch 5262 - 5277 > Base Slab - Rebar Fixing
	1061-5620	Bay 6 - Ch 5262 - 5277 > Base Slab - Erect Formworks	4	27-Jul-17	31-Jul-17	Bay 6 - Ch 5262 - 5277 > Base Slab - Erect
	1061-5640	Bay 6 - Ch 5262 - 5277 > Base Slab - Concreting	1	01-Aug-17	01-Aug-17	I Bay 6 - Ch 5262 - 5277 > Base Slab - Cor
	1061-5660	Bay 5 - Ch 5277 - 5292 > Base Slab - Blinding Layer (WF1)	1	02-Aug-17	02-Aug-17	■ Bay 5 - Ch 5277 - 5292 > Base Slab - Bl
	1061-5680	Bay 5 - Ch 5277 - 5292 > Base Slab - Base Slab - Water Proofing Membrane	3	03-Aug-17	05-Aug-17	Bay 5 - Ch 5277 - 5292 > Base Slal
	1061-5700	(WF1) Bay 5 - Ch 5277 - 5292 > Base Slab - Rebar Fixing (WF1)	6	07-Aug-17	12-Aug-17	Bay 5 - Ch 5277 - 5292
	1061-5720	Bay 5 - Ch 5277 - 5292 > Base Slab - Erect Formworks (WF1)	3	14-Aug-17	16-Aug-17	🔲 Bay 5 - Ch 5277 -
	1061-5740	Bay 5 - Ch 5277 - 5292 > Base Slab - Concreting (WF1)	1	17-Aug-17	17-Aug-17	[] Bay 5 - Ch 5277
	1061-5760	Bay 4 - Ch 5292 - 5303 > Base Slab - Blinding Layer (WF1)	1	18-Aug-17	18-Aug-17	Bay 4 - Ch 529
	1061-5780	Bay 4 - Ch 5292 - 5303 > Base Slab - Base Slab - Water Proofing Membrane (WF1)	3	19-Aug-17	22-Aug-17	Bay 4 - (
	1061-5860		1	02-Aug-17	02-Aug-17	▌ Bay 7 - Ch 5247 - 5262 > Base Slab - Bl
	1061-5880	Bay 7 - Ch 5247 - 5262 > Base Slab - Base Slab - Water Proofing Membrane (WF2)	3	03-Aug-17	05-Aug-17	Bay 7 - Ch 5247 - 5262 > Base Slal
	1061-5900	Bay 7 - Ch 5247 - 5262 > Base Slab - Rebar Fixing (WF2)	6	07-Aug-17	12-Aug-17	Bay 7 - Ch 5247 - 5262
	1061-5920	Bay 7 - Ch 5247 - 5262 > Base Slab - Erect Formworks (WF2)	3	14-Aug-17	16-Aug-17	🔲 Bay 7 - Ch 5247 -
	1061-5940	Bay 7 - Ch 5247 - 5262 > Base Slab - Concreting (WF2)	1	17-Aug-17	17-Aug-17	I Bay 7 - Ch 5247
	1061-5960	Bay 8- Ch 5232 - 5247 > Base Slab - Blinding Layer (WF2)	1	18-Aug-17	18-Aug-17	🛽 Bay 8- Ch 523:
	1061-5980	Bay 8- Ch 5232 - 5247 > Base Slab - Base Slab - Water Proofing Membrane (WF2)	3	19-Aug-17	22-Aug-17	Bay 8- C
	Retaining W	alls & Trough Structure B,C & D		I		
	1061-6860	Construct Retaining Wall E Pile Cap (7 nos)	24	06-Mar-17 A	17-Jun-17	Construct Retaining Wall E Pile Cap (7 nos)
	1061-6880	Construct Retaining Wall E1 (Ch 5332 - 5371)	18	19-Jun-17	10-Jul-17	Construct Retaining Wall E1 (Ch 5332 - 5371)
	1061-6900	Construct Retaining Wall E3 (Ch 5371 - 5398)	18	11-Jul-17	31-Jul-17	Construct Retaining Wall E3 (Ch 5371 - 53
	1061-6920	Construct Retaining Wall E3 (Ch 5398 - 5419)	18	19-Jun-17	10-Jul-17	Construct Retaining Wall E3 (Ch 5398 - 5419)
	10.6.2 - A ppro	pach Ramp (Within Portion IIB)	1			
	Pre-Bored H	-Piles				
	-	y Level of Effort Remaining Work vel of Effort Critical Remaining Work				Contract HY/2009/19 Page 6 of 7
	Actual Wo	-		Th	ree Month	s Rolling Programme (20 May 2017 to 19 August 2017)

•	 Milestone 	

vity	ID	Activity Name	Rem	Start	Finish										2	017	Luk
			Dur			-	21	28	3	04	Jur 11	ie	18	25	02	09	July 1
	1062-1020	Predrilling for ramp within Portion IIB (14no - 3set)	9	11-May-17 A	31-May-17	P			Prec	rilling for	ramp with	nin Po	ortion IIB	(14no - 3	set)	•	-
	1062-1040	Approach Ramp Portion IIB Piles Final Report / Founding Level	12	17-May-17 A	03-Jun-17	H				Approach	n Ramp F	Portion	n IIB Pile	s Final Re	port / Four	nding Leve	el
	1062-1400	Pre Bored H-Pile > Pile Ramp - BS01 A	14	24-May-17	09-Jun-17						Pre Bore	ed H-I	Pile > Pil	e Ramp - I	3S01 A		
	1062-1420	Pre Bored H-Pile > Pile Ramp - BS01 B	14	31-May-17	15-Jun-17	1.1						Pre	Bored H	-Pile > Pile	Ramp - B	S01 B	
	1062-1440	Pre Bored H-Pile > Pile Ramp - BS02 A	7	18-May-17 A	13-Jun-17	H		1			Pr	e Bor	red H-Pil	e > Pile R	mp - BS02	2 A	
	1062-1460	Pre Bored H-Pile > Pile Ramp - BS02 B	14	09-Jun-17	24-Jun-17			1						Pre Bore	ed H-Pile >	Pile Ramp	p - BS02
_	1062-1480	Pre Bored H-Pile > Pile Ramp - BS03 A	14	15-Jun-17	30-Jun-17			1							Pre Bore	d H-Pile >	Pile Ram
	1062-1500	Pre Bored H-Pile > Pile Ramp - BS03 B	14	21-Jun-17	07-Jul-17			1								Pre Bore	ed H-Pile
	1062-1520	Pre Bored H-Pile > Pile Ramp - BS04 A	14	27-Jun-17	13-Jul-17	1.1		·									Pre Bo
	1062-1540	Pre Bored H-Pile > Pile Ramp - BS04 B	14	04-Jul-17	19-Jul-17			1									
	1062-1560	Pre Bored H-Pile > Pile Ramp - BS05 A	14	24-May-17	09-Jun-17						Pre Bore	ed H-I	Pile > Pil	e Ramp - I	3S05 A		
	1062-1580	Pre Bored H-Pile > Pile Ramp - BS05 B	14	31-May-17	15-Jun-17			Ļ				Pre	Bored H	-Pile > Pile	Ramp - B	S05 B	
	1062-1600	Pre Bored H-Pile > Pile Ramp - BS06 A	14	06-Jun-17	21-Jun-17			1					Pre	Bored H	Pile > Pile	Ramp - B	S06 A
	1062-1620	Pre Bored H-Pile > Pile Ramp - BS06 B	14	12-Jun-17	27-Jun-17	-		·						Pre	Bored H-F	Pile > Pile F	Ramp - E
	1062-1640	Pre Bored H-Pile > Pile Ramp - BS07 A	14	17-Jun-17	04-Jul-17										Pre	e Bored H-	-Pile > Pi
	1062-1660	Pre Bored H-Pile > Pile Ramp - BS07 B	14	23-Jun-17	10-Jul-17									1		Pre	e Bored H
	1062-1680	Pre Bored H-Pile > Pile Ramp - BS08 A	14	29-Jun-17	15-Jul-17			1									Pre
	1062-1700	Pre Bored H-Pile > Pile Ramp - BS08 B	14	06-Jul-17	21-Jul-17												
	1062-1720	Pre Bored H-Pile > Pile Ramp - BS09 A	14	31-May-17	15-Jun-17			·				Pre	Bored H	-Pile > Pile	Ramp - B	S09 A	
	1062-1740	Pre Bored H-Pile > Pile Ramp - BS09 B	3	15-May-17 A	08-Jun-17	Н				P	re Bored	H-Pil	ile > Pile	Ramp - B	609 B		
	1062-1760	Pre Bored H-Pile > Pile Ramp - BS10 A	14	06-Jun-17	21-Jun-17								Pre	Bored H	Pile > Pile	Ramp - B	S10 A
	1062-1780	Pre Bored H-Pile > Pile Ramp - BS10 B	14	12-Jun-17	27-Jun-17									Pre	Bored H-F	Pile > Pile F	Ramp - E
	1062-1800	Pre Bored H-Pile > Pile Ramp - BS11 A	14	17-Jun-17	04-Jul-17										Pre	e Bored H-	-Pile > Pi
	1062-1820	Pre Bored H-Pile > Pile Ramp - BS11 B	14	23-Jun-17	10-Jul-17			·								Pre	e Bored H
	1062-1840	Pre Bored H-Pile > Pile Ramp - BS12 A	14	29-Jun-17	15-Jul-17												Pre
	1062-1860	Pre Bored H-Pile > Pile Ramp - BS12 B	14	31-May-17	15-Jun-17							Pre	Bored H	-Pile > Pile	Ramp - B	S12 B	
	1062-1880	Pre Bored H-Pile > Pile Ramp - BS13 A	14	06-Jun-17	21-Jun-17								Pre	Bored H	Pile > Pile	Ramp - B	S13 A
	1062-1900	Pre Bored H-Pile > Pile Ramp - BS13 B	14	12-Jun-17	27-Jun-17									🔲 Pre	Bored H-F	Pile > Pile F	Ramp - E
	1062-1920	Pre Bored H-Pile >Pile Ramp - BM01 A	14	17-Jun-17	04-Jul-17			·							Pre	e Bored H-	-Pile >Pile
	1062-1940	Pre Bored H-Pile > Pile Ramp - BM01 B	14	23-Jun-17	10-Jul-17											Pre	e Bored H
	1062-1960	Pre Bored H-Pile > Pile Ramp - BM02 A	14	29-Jun-17	15-Jul-17												Pre
	1062-1980	Pre Bored H-Pile > Pile Ramp - BM02 B	14	06-Jul-17	21-Jul-17												
	ELS													1			
	A1000	Sheet Pile and Preboring Works	50	08-May-17 A	19-Jul-17												
	A1010	Dewatering System and Instrumentation installation	38	29-May-17	13-Jul-17									1			Dewate
	A1020	Pumping Test	6	28-Jul-17	03-Aug-17			1						1 1 1 1			
	A1030	Excavation Part 1 (1500m^3 / day)	9	04-Aug-17	14-Aug-17			1									

R

Actual Work

Remaining Level of Effort
 Remaining Work

Actual Level of Effort

Critical Remaining Work

♦ Milestone

				August		
16	23	30	06	13	20	27
2 B						
amp - B	503 A					
-	e Ramp - B	S03 B				
	Pile > Pile I		04 A			
				в		
			amp - BS04	Ð		
BS06	В					
Pile Rar	np - BS07 /	A				
I H-Pile	> Pile Ram	o-BS07 B	5			
e Borec	l H-Pile > P	ile Ramp -	BS08 A			
	Pre Bored I	H-Pile > Pile	e Ramp - B	S08 B		
			•			
D044	D					
BS10						
	np - BS11					
I H-Pile	> Pile Ram	b - BS11 B				
e Borec	l H-Pile > P	ile Ramp -	BS12 A			
BS13	В					
Pile Ram	np - BM01 /	٩				
I H-Pile	> Pile Ram	o-BM01 E	3			
	' H-Pile > P					
			e Ramp - Bl	M02 B		
			ם קוואיו			
		Drohanin	\\/orka			
	eet Pile and					
atering S	system and		tation instal			
		P	umping Tes			
				Excav	ation Part	: 1 (1:
				Page 7 of 7	7	
				- 450 / 01		

China State Construction Engineering (Hong Kong) Ltd.

Contract No. HY/2009/15 - Central Wan Chai By Pass - Tunnel (Causeway Bay Typhoon Shelter Section)

A stivity Nome	Stort	Finish		2017	
Activity Name	Start	FIIISII	Apr	May	Jun
Hung Hing Road Resurfacing	1/6/2017	30/6/2017			
Defect works inside tunnel	1/4/2017	30/9/2017			

	LEADER 中國建築- CHINA STATE - LEA					Wan Chai	ntract No. HK/2012/08 Development Phase II hai Bypass at Wan Chai W	est	
Activity		Remaining Dur Early Start	Early Finish	Total Float	Activity % Complete	Apr	Мау	2017	Jun
	Programme Rev.10(DD 31 March 2017)								
ks for Section C	ompletion								
nstruction									
ection II A - CWB Tur	nel & Slip Road Structures and Facilities								
WB D - Slip Road 1 -	Trough / Retaining Wall								
WB D - Slip Road 1 - T	rough/Retaining Wall Structure								
SIIA12788 Sec II A SR1 tro	A - CWB SR1 Trough & RW: jet grout for seepage at	27 11-Mar-17 A	26-Apr-17	48	0%				
SIIA12800 Sec II	A - CWB SR1 Trough & RW: Trough Structure - Base	15 23-May-17	06-Jun-17	59	0%				
SIIA13720 Sec II	Wall (bay 1) A - CWB SR1 Trough & RW: Trough Structure -Base	15 08-May-17	22-May-17	48	0%				
SIIA13740 Sec II	Wall (bay 2) A - CWB SR1 Trough & RW: Trough Structure - Base	15 14-May-17	28-May-17	48	0%				
Slab &	Wall (bay 3) A - CWB SR1 Trough & RW: Retaining Walls RW3 &	16 29-May-17	13-Jun-17	48	0%				
RW4 (t		15 03-Jun-17	17-Jun-17	48	0%				
RW4 (t	ay 2)	15 05-5011-17	1/-Juli=1/	01	070				
ection III A - Road A2									
Roadwork & Utilities -	Section 1 (L1806 - L1801)								
	A - roadwork and utlities section 1 carriageway - ge works (TTA Stage 4A, 4B & 4C)	52 10-Apr-17*	15-Jun-17	15	0%				
SIIIA10290 Sec III	A - roadwork and utlities section 1 carriageway - TTA	15 26-Jun-17*	13-Jul-17	7	0%				
Stage 5	Section 2 (L1810 - L1806)								
SIIIA12470 Sec III	A - roadwork and utlities section 2 carriageway -	14 29-Jun-17*	15-Jul-17	8	0%				
Relocat	e site access Section 4 (L1406 - L1401)								
	A - roadwork and utilities section 4 carriageway -	59 08-May-17*	17-Jul-17	0	0%				
Draina	ge works (L1406 -L1401)	59 08-May-17*	1/-Júl-1/	U	0%				
	Section 5 (L1411 - L1406)								
	A - roadwork and utilities section 5 carriageway - ge works (L1411 - L1406)	44 25-May-17*	17-Jul-17	0	0%				
loadwork & Utilities -	Section 6 (L1102 - L1411)								
	A - roadwork and utlities section 1 carriageway - ge works (Culvert L - L1411)	49 10-May-17*	07-Jul-17	14	0%				
	At-Grade Road; Remove 2nd Stage ITA								
Roadwork & Utilities									
Section 1 (L1504 - L19	00)								
SV12420 Sec V -	Roadwork & Utilities Section 1 Carriageway -	112 16-Mar-17 A	17-Aug-17	57	0%				
Draina	ge Works at MVB North Roadwork & Utilities Section 1 Carriageway - Gully	109 05-May-17	11-Sep-17	57	0%				
pipe		109 US-May-17	11-Seh-1/	57	U%0				
Section 2 (L1510 - L15									
	Roadwork & Utilities Section 2 Carriageway - ge Works (L1501-L1507, L1406B-L1406A,	82 25-May-17*	30-Aug-17	0	0%				
Section 3 (Culvert L - L									
	Roadwork & Utilities Section 3 Carriageway -	51 16-Mar-17 A	06-Jun-17	130	0%				
SIV12800 Sec V -	ge Works (Culvert L - L1504 & L1406B - L1406C) Roadwork & Utilities Section 3 Carriageway - Gully	30 07-Jun-17	12-Jul-17	130	0%				
pipe (C ox Culvert L1 & FRP-	ulvert L - L1504) L - Bay 8								
						I			
Date:	Current Milestone								
[ar_17	Actual Work			.	_				1
💻	Critical Remaining Work	Three	Months	Rollir	na P	rogramme for Non-CRIII	(Apr 2017 to Jun 2017	7)	L

Work Critical Remaining Work Remaining Work

Remaining Level of Effort

Three Months Rolling Programme for Non-CRIII (Apr 2017 to Jun 2017) (Ref. to Works Programme Rev.10)

Re

			F	age : 1	/ 3		
		•	Jul				Aug
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Revisio	n	Checked		A	pprove	ed	
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SEE N	CHINA STATE - LEA	·利	を 静 営 T VENTURE			CEDD Contract No. HK/2012/08 Wan Chai Development Phase II Central - Wan Chai Bypass at Wan Chai West	Page : 2 / 3
D Ac	ctivity Name	Remaining Dur	Early Start	Early Finish	Total Float Activity % Complete	Apr May Jun	Jul
Box Culvert L1 &	FRP-L - Bay 8 Structure		<u> </u>			ryn may oun oun	
CUL11328 C	Culvert L - bay 8 - construt top slab	12	10-Apr-17*	21-Apr-17	79 0%		
Box Culvert L1 &	FRP-L - Bay 8 Others						
		25	02 Jun 17*	02 14 17	20		
	Culvert L - bay 8 - backfill above box section	25	03-Jun-17*	03-Jul-17	30 0%		
Section VI D - Are	ea 8B & 10						
WDII Box 1 Cons	struction						
WDII Box 1 Remai	ining Structure						
	ec VID -Remaining of Box I: Construct sacarfical wall	11	19-Mar-17 A	10-Apr-17	0 60.71%		
	2.3m) ec VID - Remaining of Box I: Construct Wall 13(23m run)	16	07-Mar-17 A	15-Apr-17	8 46.67%		
	ec VID - Remaining of Box I:Construct 2.5m wall 13	13	11-Apr-17	23-Apr-17	0 0%		
		-		-			
-1	ec VID - Remaining of Box I: Blasting and final sink box to 10.0 mPD	2	24-Apr-17	25-Apr-17	0 0%		
WD-C6122 Se	ec VID - Remaining of Box I: Stiching of 4 bored piles	12	26-Apr-17	07-May-17	0 0%		
	iec VID - Remaining of Box I: Scaffoding and soffit work at bored piles	10	08-May-17	17-May-17	0 0%		
WD-C6126 Se	iec VID - Remaining of Box I: Roof rebar and concreting flat oof	8	18-May-17	25-May-17	0 0%		
WD-C6128 Se	ec VID - Remaining of Box I: Construct remaining roof half	7	28-May-17	03-Jun-17	0 0%		
	oint ec VID - Remaining of Box I: Waterproofing work of roof	12	04-Jun-17	15-Jun-17	0 0%		
	ec VID - Backfilling at South of Box I : Backfilling bagged	5	26-Apr-17	30-Apr-17	6 0%		
CE	ement to -6.5mPD						
st	ec VID - Backfilling at South of Box I : Remove all ELS horing and cut off P7 to P58 at -6.5mPD	18	01-May-17	18-May-17			
so	ec VID - Backfilling at South of Box I : Remove SIC coarse creen hood	11	19-May-17	29-May-17	6 0%		
	ec VID - Backfilling at South of Box I : Install pipe cap for ox beam	4	30-May-17	02-Jun-17	6 0%		
	ec VID - Backfilling at South of Box I : Stiching of H-pile	4	03-Jun-17	06-Jun-17	6 0%		
	ec VID - Backfilling at South of Box I : Bagged lighweight	6	07-Jun-17	12-Jun-17	6 0%		
	oncrete btw cap & seawall ec VID - Backfilling at South of Box I : Install box beam	4	13-Jun-17	16-Jun-17	6 0%		
WD-C6250 Se	ec VID - Backfilling at South of Box I : Place 400mm thk	4	17-Jun-17	20-Jun-17	6 0%		
pr	recast cover to SIC ec VID - Backfilling at South of Box I : Bagged lightweight	4	21-Jun-17	24-Jun-17	6 0%		
cc	oncrete btw precast cover and box beam						
bl	iec VID - Backfilling at North of Box I : Type C concrete lock at Box I half joint	4	19-May-17	22-May-17	13 0%		
	ec VID - Backfilling at North of Box I : Install ceramsite oncrete blocks	8	23-May-17	30-May-17	13 0%		
	ec VID - Backfilling at North of Box I : Type A concrete lock at roof of Box 1/2	3	31-May-17	02-Jun-17	13 0%		
	ec VI D - Public fill on the top of Box I	15	16-Jun-17	30-Jun-17	0 0%		
Section IV - Slip R	Road 3						
Roadwork & Utili	ities						
Section 2 (L2301							
		25	20 4 17*	02 1 17	0 004		
D	ec IV - Roadwork & Utilities at SR3 Section 2 Carriageway - brainage Works		20-Apr-17*	02-Jun-17	0 0%		
	iec IV - Roadwork & Utilities at SR3 Section 2 Carriageway - Vatermain	10	28-Jun-17	10-Jul-17	161 0%		
	iec IV - Roadwork & Utilities at SR3 Section 2 Carriageway - Gully pipe	21	03-Jun-17	27-Jun-17	161 0%		
Section VII - Rem							
Promenade Seaw	vall Parapet Construction						
SVII10400 Se	ec VII - construct block seawall mass concrete coping &	50	15-Jun-17*	12-Aug-17	13 0%		
ba	ackfill to pavement formation			-			
Soft Landscaping	j Works						

CSUEC	化 正 A CHINA STATE	築-利達					Wan Chai	ntract No. HK/2012/08 Development Phase II nai Bypass at Wan Chai Wes	t	Page : 3 / 3	
Activity ID	Activity Name	Remaining Dur	Early Start	Early Finish	Total Float	Activity %			2017		
						Complete	Apr	Мау	Jun	Jul	Aug
SVIII10040	Sec VIII - Trees Planting	118	31-Mar-17	24-Aug-17	0	0%					
Section X - Pr	otection & Preservation of Trees										
Soft Landsca	ping Works										
SX10020	Sec X - Protection & Preservation of Trees	234	31-Jan-13 A	19-Nov-17	0	85.66%					

EDD CO	ONTRACT H	K/2009/02							Page
ity ID	Activity Name		i Ori i	Rem	Scheduled/	Scheduled/	Total	Calendar	2017
,			Dur	Dur	Actual Start	Actual Finish	Float	Caloridai	April May June July 26 02 09 16 23 30 07 14 21 28 04 11 18 25 02 09
hree Months Ro	olling Programme 201	7-04-20 (dd 20-Apr-17)							
Programme Milest	tones (Revised up to EO	0TO No.21)							
Contractual Comple				2		00.4.474	50.4		
	, ,	WB Structure (CH3400 Eastward) (2-Dec-15 Noon)	0	0		20-Apr-17* 20-Apr-17*	-504 -170	Calendar Day Calendar Day	 Section 9B Works (2134 days) - CWB \$tructure (CH3400 Eastward) (2-Dec-15 Noon) Section 10 Works (2469 days) - CWB \$tructure (CH3400 Wes tward) (31-Oct-16)
		emainder of Works/ Works Completion Date (23-May-17)	0	0		23-May-17*	0	Calendar Day	Section 11 Works (2673 days) - Remainder of Works/ Works Completion
	Establishment Key Dates								
		Remaining Landscape Softworks (03-Oct-16 Noon) Protection and Preservation of Existing Trees (22-May-17 Noon)	0	0		20-Apr-17* 22-May-17*	-198	Calendar Day Calendar Day	 Section 11A Works (2440 days) - Remaining Landscape Softworks (03-Oct-16 Noon) Section 12 Works (2672 days) - Protection and Preservation of Existing
		of Wan Chai Ferry Pier in Area 8	0	0		22-Way-17	Ū	Calcillar Day	
Outstanding Works									
	Relocation of fire hydrant near Fer	rry Pier	10	10	14-Jul-17	25-Jul-17	-58	HK Working Day	
		g inside the rooms under staircase ST-01 of the Ferry Pier	12	12	03-Jul-17	14-Jul-17	-58	HK Working Day	
		g under the temporary covered walkway	6	6	14-Jul-17	20-Jul-17	-54	HK Working Day	
Temporary Covered		ered Walkway & Works in Area 8							
		uct the remaining Type 4 Covered Walkway at west wing	36	36	17-Jun-17	27-Jul-17	-60	HK Working Day	
ection 9B of the	Works - CWB Tunnel St	ructure (CH3400 - CH3796)							
Tunnel Portion 1 (Cl	CH3500-CH3630)								
CWB Structural Work	rks								
Outstanding Works S9B-T1-OUT-1010	TB1 - Remedial works of the cross	s road ducts	25	0	12-Oct-16 A	15-Apr-17 A		Calendar Day	TB1 - Remedial works of the cross road ducts
		ter leakage identified inside the OHVD cells	30	0	14-Mar-17 A	12-Apr-17 A		Calendar Day	TB ¹ - Remedial works against water leakage identified inside the OHVD cells
Funnel Portion 2 (Cl	CH3425-CH3500)								
CWB Structural Work	rks								
Outstanding Works S9B-T2-OUT-1010	TB2 - Remedial works of the cross	s road ducts	25	7	12-Oct-16 A	26-Apr-17	-511	Calendar Day	TB2 - Remedial works of the cross road ducts, TB2 - Remedial works of the cross road ducts
		ter leakage identified inside the OHVD cells	25	5	12-Oct-16 A	24-Apr-17	29	Calendar Day	TB2 Remedial works against water leakage identified inside the OHVD cells
Tunnel Portion 3 &	Tunnel Portion 4 (CH3630-0	CH3790)							
CWB Structural Work				00	00 1 17	00 1 1 17	500		
S9B-T34-7400 I Tunnel Portion 5 (Cl	ELS (S1) Removal - Bay 1 to Bay	8	28	28	08-Jun-17	06-Jul-17	-503	Calendar Day	ELS (S1) F
Bay 13 (Eastern End	· · ·								
S9B-T5-B13-1020	Base Slab - Rebar Fixing		10	0	11-Feb-17 A	30-Mar-17 A		Calendar Day	Base Slab - Rebar Fixing
S9B-T5-B13-1030			1	0	31-Mar-17 A			Calendar Day	Base Slab - Concrete Base Slab - Currind
S9B-T5-B13-1040 I S9B-T5-B13-1050 V	Wall (North) - Waterproofing & Wo	orking Platform	4	0	01-Apr-17 A 10-Apr-17 A	14-Apr-17 A		Calendar Day Calendar Day	Wall (North) - Waterproofing & Working Platform
	Wall (North) - Rebar Fixing	3 • • • •	3	0	15-Apr-17 A	17-Apr-17 A		Calendar Day	🛑 Wall (North) - Rebar Fixing
	Wall (North) - Formwork		2	0	18-Apr-17 A	19-Apr-17 A		Calendar Day	Wall (North) - Formwark
	Wall (North) - Concrete	Dismonting	1 3	1	20-Apr-17	20-Apr-17 23-Apr-17	-546	Calendar Day Calendar Day	Wall (North) - Concrete, Wall (North) - Concrete Wall (North) - Curing & Formwork Dismantling, Wall (North) - Curing & Formwork Dismantling
	Wall (North) - Curing & Formwork Wall (South) - Waterproofing & We	-	4	0	21-Apr-17 10-Apr-17 A	13-Apr-17 A	-540	Calendar Day	Wall (Notif) - Curring & Working Platform
	Wall (South) - Rebar Fixing		3	0	14-Apr-17 A	16-Apr-17 A		Calendar Day	🔲 Wa ^{ll} (South) - Rebar Fixing
	Wall (South) - Formwork		2	0	17-Apr-17 A	18-Apr-17 A		Calendar Day	Wall:(South) - Formwork
	Wall (South) - Concrete Wall (South) - Curing & Formwork	Dismonting	1 3	0	19-Apr-17 A 20-Apr-17	19-Apr-17 A 22-Apr-17	-549	Calendar Day Calendar Day	I Wall (South) - Concrete Wall (South) - Curing & Formwork Dismanting, Wall (South) - Curing & Formwork Dismantling
	Wall (Middle) - Rebar Fixing & Wo	-	4	0	12-Mar-17 A	12-Apr-17 A	-343	Calendar Day	Wall (Gould) - Connig a ronnig
	Wall (Middle) - Formwork		2	0	13-Apr-17 A	14-Apr-17 A		Calendar Day	Wall (Middle) - Formwork
	Wall (Middle) - Concrete		1	0	15-Apr-17 A	15-Apr-17 A		Calendar Day	I Wall (Middle) - Concrete
	Wall (Middle) - Curing & Formworl Construct Roadside Barriers	k Dismantling	3	0	16-Apr-17 A 12-Apr-17 A	19-Apr-17 A 21-Apr-17	-549	Calendar Day Calendar Day	Wall (Middle) - Curing & Formwork Dismantling Construct Roadside Barriers, Construct Roadside Barriers
	OHVD Base Slab (North) - Scaffo	Iding Erection	10	10	22-Apr-17	01-May-17	-549	Calendar Day	OHVD Base Slab (North) - Scaffolding Erection, OHVD Base Slab (North) - Scaffolding Erection
	OHVD Base Slab (North) - Formw	-	7	7	29-Apr-17	05-May-17	-546	Calendar Day	OHVD Base Slab (North) - Formwork & Rebar Fixing, OHVD Base Slab (North) - Formwork &
S9B-T5-B13-1250	OHVD Base Slab (North) - Concre	ete & Curing	2	2	06-May-17	07-May-17	-546	Calendar Day	OHVD Base Slab (North) - Concrete & Curing, OHVD Base Slab (North) - Concrete & Curin
♦ Milestone									Date Revision Checked Appro
 Milestone Critical Miles 	stones								Rev. Programme (08-Apr
Current Wo		CHUN WO - CRGL			CEDD	CONTR	RACT	NO. HK	(/2009/02
		JOINT VENTURE		ntra	l Wana	hai Rv	naee	at Wan	Chai East (Contract 2)
Critical Worl	-	JUNIT VENTURE					-		
Kemaining I	Level of Effort		3-M	ION ⁻	TH ROL	LING F	PROC	GRAMM	E (dd 20-Apr-17)

Activity ID	Activity Name	Ori	Rem	Scheduled/	Scheduled/	Total	Calendar	April	2017 May
		Dur	Dur	Actual Start	Actual Finish	Float			23 30 07 14 21
S9B-T5-B13-1260	OHVD Base Slab (North) - Hanger Wall & Scaffolding to Roof	3	3	08-May-17	10-May-17	-540	Calendar Day		OHVD Base Slab (Nori
S9B-T5-B13-1270	OHVD Base Slab (South) - Scaffolding Erection	7	7	22-Apr-17	28-Apr-17	-549	Calendar Day		OHVD Base Slab (South) - Scaffolding
S9B-T5-B13-1280	OHVD Base Slab (South) - Formwork & Rebar Fixing	7	7	29-Apr-17	05-May-17	-549	Calendar Day		OHVD Base Slab (South) - Fo
S9B-T5-B13-1290	OHVD Base Slab (South) - Concrete & Curing	2	2	06-May-17	07-May-17	-549	Calendar Day		OHVD Base Slab (South) -
S9B-T5-B13-1300	OHVD Base Slab (South) - Hanger Wall & Scaffolding to Roof	4	4	08-May-17	11-May-17	-549	Calendar Day		OHVD Base Slab (So
S9B-T5-B13-1350	Roof - Waterproofing	9	9	10-May-17	18-May-17	-548	Calendar Day		Roof - Wate
S9B-T5-B13-1360	Roof - Rebar Fixing & Formwork	14	14	20-May-17	02-Jun-17	-549	Calendar Day		
S9B-T5-B13-1370	Roof - Concrete	1	1	03-Jun-17	03-Jun-17	-549	Calendar Day		
S9B-T5-B13-1380	Roof - Curing	12	12	03-Jun-17	15-Jun-17	-76	Calendar Day		
S9B-T5-B13-1390	Roof - Scaffolding Dismantling	7	7	15-Jun-17	22-Jun-17	-50	Calendar Day		
_Bay 12									
S9B-T5-B12-1050	Wall (North) - Waterproofing & Working Platform	4	0	21-Mar-17 A	24-Mar-17 A		Calendar Day	Wall (North) - Waterproofing & Working F	Platform
S9B-T5-B12-1060	Wall (North) - Rebar Fixing	3	0	25-Mar-17 A	27-Mar-17 A		Calendar Day	Wall (North) - Rebar Fixing	
S9B-T5-B12-1070	Wall (North) - Formwork	2	0	28-Mar-17 A	29-Mar-17 A		Calendar Day	Wall (North) - Formwork	
S9B-T5-B12-1080	Wall (North) - Concrete	1	0	30-Mar-17 A	30-Mar-17 A		Calendar Day	Wall (North) - Concrete	
S9B-T5-B12-1090	Wall (North) - Curing & Formwork Dismantling	3	0	31-Mar-17 A	02-Apr-17 A		Calendar Day	Wall (North) - Curing & Form	
S9B-T5-B12-1100	Wall (South) - Waterproofing & Working Platform	4	0	03-Apr-17 A	06-Apr-17 A		Calendar Day	Wall (South) - Waterpro	oofing & Working Platform
S9B-T5-B12-1110	Wall (South) - Rebar Fixing	3	0	07-Apr-17 A	09-Apr-17 A		Calendar Day	🔲 Wall (Sputh) - Reba	r Fixing
S9B-T5-B12-1120	Wall (South) - Formwork	2	0	10-Apr-17 A	12-Apr-17 A		Calendar Day	🛄 Wall (South) - F	ormwork
S9B-T5-B12-1130	Wall (South) - Concrete	1	0	13-Apr-17 A	13-Apr-17 A		Calendar Day	I Wall (Sputh) -	Concrete
S9B-T5-B12-1140	Wall (South) - Curing & Formwork Dismantling	3	0	14-Apr-17 A	16-Apr-17 A		Calendar Day	🗖 Wall (Sput	h) - Curing & Formwork Dismantling
S9B-T5-B12-1150	Wall (Middle) - Rebar Fixing & Working Platform	4	0	18-Mar-17 A	21-Mar-17 A		Calendar Day	Wall (Middle) - Rebar Fixing & Working Platfo	rm
S9B-T5-B12-1160	Wall (Middle) - Formwork	2	0	22-Mar-17 A	23-Mar-17 A		Calendar Day] Wall (Middle) - Formwork	
S9B-T5-B12-1170	Wall (Middle) - Concrete	1	0	24-Mar-17 A	24-Mar-17 A		Calendar Day	Wall (Middle) - Concrete	
S9B-T5-B12-1180	Wall (Middle) - Curing & Formwork Dismantling	3	0	25-Mar-17 A	27-Mar-17 A		Calendar Day	Wall (Middle) - Curing & Formwork D	Dismantling
S9B-T5-B12-1185	Construct Roadside Barriers	7	0	06-Apr-17 A	15-Apr-17 A		Calendar Day	Construct R	oadside Barriers
S9B-T5-B12-1230	OHVD Base Slab (North) - Scaffolding Erection	10	5	15-Apr-17 A	24-Apr-17	-536	Calendar Day		OHVD Base Slab (North) - Scaffolding Erecti
S9B-T5-B12-1240	OHVD Base Slab (North) - Formwork & Rebar Fixing	7	7	25-Apr-17	01-May-17	-536	Calendar Day		OHVD Base Slab (North) - Formwo
S9B-T5-B12-1250	OHVD Base Slab (North) - Concrete & Curing	2	2	02-May-17	03-May-17	-536	Calendar Day		OHVD Base Slab (North) - Conc
S9B-T5-B12-1260	OHVD Base Slab (North) - Hanger Wall & Scaffolding to Roof	3	3	04-May-17	06-May-17	-534	Calendar Day		OHVD Base Slab (North) - H
S9B-T5-B12-1270	OHVD Base Slab (South) - Scaffolding Erection	7	7	20-Apr-17	26-Apr-17	-536	Calendar Day		OHVD Base Slab (South) - Scaffolding Ere
S9B-T5-B12-1280	OHVD Base Slab (South) - Formwork & Rebar Fixing	7	7	27-Apr-17	03-May-17	-536	Calendar Day		OHVD Base Slab (South) - Form
S9B-T5-B12-1290	OHVD Base Slab (South) - Concrete & Curing	2	2	04-May-17	05-May-17	-536	Calendar Day		OHVD Base Slab (South) - Co
S9B-T5-B12-1300	OHVD Base Slab (South) - Hanger Wall & Scaffolding to Roof	3	3	06-May-17	08-May-17	-536	Calendar Day		OHVD Base Slab (South)
S9B-T5-B12-1350	Roof - Waterproofing	5	5	04-May-17	08-May-17	-536	Calendar Day		Roof - Waterproofing, Roo
S9B-T5-B12-1360	Roof - Rebar Fixing & Formwork	12	12	15-May-17	27-May-17	-543	Calendar Day		
S9B-T5-B12-1370	Roof - Concrete	1	1	27-May-17	28-May-17	-543	Calendar Day		
S9B-T5-B12-1380	Roof - Curing	14	14	28-May-17	12-Jun-17	-73	Calendar Day		
S9B-T5-B12-1390	Roof - Scaffolding Dismantling	6	6	12-Jun-17	18-Jun-17	-45	Calendar Day		
Section 10 Work	s - CWB Tunnel Structure (CH3246 - CH3400)								
Tunnel Portion 5									
S10-T5-4000	ELS Removal - Bay 11 to Bay 13 (2 Strut Layers - S2 and S3)	12	0	15-Mar-17 A	15-Apr-17 A		HK Working Day	ELS Remov	al - Bay 11 to Bay 13 (2 Strut Layers - S2 and s
S10-T5-5100	King Post Load Transfer in Bay 10 to Bay 15	9	9	10-Jun-17	19-Jun-17	-76	Calendar Day		
S10-T5-5200	King Post Load Transfer in Bay 8 to Bay 9	9	9	02-Jun-17	11-Jun-17	-70	Calendar Day		
S10-T5-5300	King Post Load Transfer in Bay 5 to Bay 7	9	9	21-May-17	30-May-17	-15	Calendar Day		
S10-T5-5400	King Post Load Transfer in Bay 5 to Bay 7 King Post Load Transfer in Bay 1 to Bay 4	9	9	13-Jun-17	-	-485	Calendar Day		
					22-Jun-17		Calendar Day Calendar Day		
S10-T5-6000	Roof Waterproofing - Bay 10 to Bay 15	9	9	16-Jun-17	25-Jun-17	-76	Calendar Day Calendar Day		
S10-T5-6100	Roof Waterproofing - Bay 8 to Bay 9	9	9	11-Jun-17	20-Jun-17	-31		4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	
S10-T5-6200	Roof Waterproofing - Bay 4 to Bay 7	9	9	15-Jun-17	24-Jun-17	-31	Calendar Day		
S10-T5-6300	Roof Waterproofing - Bay 1 to Bay 4	6	6	16-Jun-17	22-Jun-17	-485	Calendar Day		
S10-T5-6410	Construct Temporary Access Opening in Bay 6	14	12	18-Apr-17 A	08-May-17	0	HK Working Day		Construct Temporary Acc
S10-T5-6420	Remove construction materials through temporary access opening in Bay 6	11	11	22-Jun-17	03-Jul-17	-52	Calendar Day		
S10-T5-7000	ELS Removal - Bay 1 to Bay 13 (Strut Layer S1)	14	14	26-Jun-17	12-Jul-17	-50	HK Working Day		
S10-T5-7100	ELS Removal - Bay 1 to Bay 4 (Strut Layers S1A)	8	8	07-Jul-17	15-Jul-17	-50	HK Working Day		
S10-T5-7105	Removal of Formwork and Falsework after dismantling within Bay 1 to Bay 13 in the access shaft of TP2	20	20	22-Jun-17	12-Jul-17	-50	Calendar Day		

•	♦ Milestone			Date	Revision	Checked	Approved
	 Critical Milestones 				Rev. Programme (08-Apr		
-		CHUN WO - CRGL	CEDD CONTRACT NO. HK/2009/02				
	Current Works	JOINT VENTURE	WD II Control Wanahai Bynaca at Wan Chai East (Contract 2)				
	Critical Works	JOINT VENTURE	WD II - Central Wanchai Bypass at Wan Chai East (Contract 2)				
	Remaining Level of Effort		3-MONTH ROLLING PROGRAMME (dd 20-Apr-17)				

						Page	2 of 9
		June		1		July	
28	04	11	18	25	02	09	16
lorth) - Har							
g Erection	, OHVD E	ase Slab	(South) -	Scaffoldi	ng Erectio	n	
Formwork					-		Rebar Fix
n) - Concre						1	
South) - Ha					i i	i	
aterproofin	-		-	.,			,
	.			work Roo	of - Rebar	Fixing &	Formwork
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Roof -	Concrete	, Roof - C	oncrete				
	· · · · ·	Roof	- Curing,	Roof - Cu	ring		
1			Roof -	Scaffoldir	g Dismar	tling, Roo	f - Scaffok
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n¢l S3)							
iq 00)			Kina	PostLog	Transfor	in Boy 10	to Bay 15
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King	Post Loa	u transfe					ansfer in E
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1				Roof W	ater proofi	ng-Bay4	to Bay 7,
			F	oof Wate	proofing	-Bay1to	Bay 4, Ro
ccess Op	ening in B	ay 6					
			_		🗖 Remo	ove const	ruction ma
						EL	S Remova
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						Re	moval of I
*							. 1
R	evision			Checke	d	Appro	oved
1.							

vity ID	Activity Name			Dri Dur	Rem Dur	Scheduled/ Actual Start	Scheduled/ Actual Finish	Total Float	Calendar			April		May	2017
										26	02 09		23 30	07 14	21
D-T5-7110	Reinstate Temporary Access Ope			12	12	03-Jul-17	15-Jul-17	-52	Calendar Day						
0-T5-8000	Tunnel Portion 5 Tunnel Structure	- Cut down D-wall to +1.50mPD	1	10	10	16-Jul-17	26-Jul-17	-224	Calendar Day						
0-T5-B11-1050	Wall (North) - Waterproofing & Wo	orking Platform	i.	4	0	18-Mar-17 A	21-Mar-17 A	1	Calendar Dav	Wall (North)	- Waterproofing &	Working Platfe	orm		
0-T5-B11-1060	Wall (North) - Rebar Fixing			3	0	22-Mar-17 A	24-Mar-17 A		Calendar Day		tth) - Rebar Fixing	-			
D-T5-B11-1070	Wall (North) - Formwork			2	0	25-Mar-17 A	26-Mar-17 A		Calendar Day		North) - Formwork				
T5-B11-1080	Wall (North) - Concrete			1	0	27-Mar-17 A	27-Mar-17 A		Calendar Day		(North) - Concret				·
5-B11-1090	Wall (North) - Curing & Formwork	Dismantling		3	0	28-Mar-17 A	30-Mar-17 A		Calendar Day		Wall (North) - Curi		k Dismant ling		
T5-B11-1100	Wall (South) - Waterproofing & W	-		3	0	28-Mar-17 A	30-Mar-17 A		Calendar Day		Wall (South) - Wat	terproofing & V	Vorking Platform	m	
T5-B11-1110	Wall (South) - Rebar Fixing			3	0	31-Mar-17 A	02-Apr-17 A		Calendar Day		Wall (South) -	Rebar Fixing			
T5-B11-1120	Wall (South) - Formwork			2	0	03-Apr-17 A	04-Apr-17 A		Calendar Day		🔲 Wall (South) - Formwork			
D-T5-B11-1130	Wall (South) - Concrete			1	0	05-Apr-17 A	05-Apr-17 A		Calendar Day		🛿 Wall (Sout	th) - Concrete			
)-T5-B11-1140	Wall (South) - Curing & Formwork	Dismantling		3	0	06-Apr-17 A	08-Apr-17 A		Calendar Day		🗖 Wall (S	South) Curing	g & Formwork I	Dismantling	
)-T5-B11-1180	Wall (Middle) - Curing & Formwor	k Dismantling	:	3	0	20-Mar-17 A	22-Mar-17 A		Calendar Day	Wall (Middl	ė) - Curing & Form	nwiork Dismiant	lling		
-T5-B11-1185	Construct Roadside Barriers			5	0	21-Mar-17 A	10-Apr-17 A		Calendar Day		Con	struct Roadsic	1		
T5-B11-1230	OHVD Base Slab (North) - Scaffo	Iding Erection		10	10	20-Apr-17	29-Apr-17	-543	Calendar Day					Base Slab (North	
T5-B11-1240	OHVD Base Slab (North) - Formw	-		7	7	25-Apr-17	02-May-17	-543	Calendar Day					HVD Base Slab (N	
T5-B11-1250	OHVD Base Slab (North) - Concr	-		2	2	02-May-17	04-May-17	-543	Calendar Day					OHVD Base Slab	1 I I I I I I I I I I I I I I I I I I I
-T5-B11-1260	OHVD Base Slab (North) - Hange			3	3	04-May-17	07-May-17	-541	Calendar Day					OHVD Base S	1 1 11
T5-B11-1270	OHVD Base Slab (South) - Scaffo	-		10	10	20-Apr-17	29-Apr-17	-542	Calendar Day					Base Slab (South	
-T5-B11-1280	OHVD Base Slab (South) - Formv	-		7	7	25-Apr-17	02-May-17	-543	Calendar Day					HVD Base Slab (S	
)-T5-B11-1290	OHVD Base Slab (South) - Concr			2	2	02-May-17	04-May-17	-543	Calendar Day				_	OHVD Base Slab	
)-T5-B11-1300	OHVD Base Slab (South) - Hange	er Wall & Scatfolding to Root		3	3	04-May-17	07-May-17	-541	Calendar Day					OHVD Base S	- 10 C
)-T5-B11-1350	Roof - Waterproofing			6	6	04-May-17	10-May-17	-543	Calendar Day				-	Root - W	aterproofing,
)-T5-B11-1360	Roof - Rebar Fixing & Formwork			14	14	09-May-17	23-May-17	-543	Calendar Day						Roof
-T5-B11-1370	Roof - Concrete			1 12	12	23-May-17 24-May-17	24-May-17	-72 -72	Calendar Day Calendar Day		÷				Ro
)-T5-B11-1380)-T5-B11-1390	Roof - Curing Roof - Scaffolding Dismantling			5	5	06-Jun-17	06-Jun-17 11-Jun-17	-72	Calendar Day						
10	Roor - Scarolding Dismantling		·	5	5	06-Juli-17	TT-Jun-17	-39	Calendar Day						
)-T5-B10-1060	Wall (North) - Rebar Fixing			3	0	19-Mar-17 A	21-Mar-17 A	1	Calendar Day	Wall (North)	RebarFixing				
-T5-B10-1070	Wall (North) - Formwork			2	0	22-Mar-17 A	23-Mar-17 A		Calendar Day		th) - Formwork				
)-T5-B10-1080	Wall (North) - Concrete			1	0	24-Mar-17 A	24-Mar-17 A		Calendar Day		rth) - Concrete				·
5-B10-1090	Wall (North) - Curing & Formwork	Dismantling		3	0	25-Mar-17 A	27-Mar-17 A		Calendar Day		(North) - Curing 8	& Formwork Di	smanting		
5-B10-1100	Wall (South) - Waterproofing & W	-		3	0	25-Mar-17 A	27-Mar-17 A		Calendar Day		(South) - Waterpr				
T5-B10-1110	Wall (South) - Rebar Fixing			3	0	28-Mar-17 A	30-Mar-17 A		Calendar Day		Wall (South) - Reb				1
-T5-B10-1120	Wall (South) - Formwork			2	0	31-Mar-17 A	01-Apr-17 A		Calendar Day		Wall (South) - F				
-T5-B10-1130	Wall (South) - Concrete			1	0	02-Apr-17 A	02-Apr-17 A		Calendar Day		Wall (\$outh) -	Concrete			
T5-B10-1140	Wall (South) - Curing & Formwork	Dismantling		3	0	03-Apr-17 A	05-Apr-17 A		Calendar Day		🔲 Wall (Sout	th) - Curing & I	Formwork Disn	nantling	
)-T5-B10-1185	Construct Roadside Barriers			6	0	20-Mar-17 A	06-Apr-17 A		Calendar Day		Çonstruc	t Roadside Ba	arriers		
-T5-B10-1230	OHVD Base Slab (North) - Scaffo	Iding Erection	1	10	0	08-Apr-17 A	17-Apr-17 A		Calendar Day			🗖 ОНИЙ В	ase Slab (North	h) - Scaffolding Er	ection
T5-B10-1240	OHVD Base Slab (North) - Formw	vork & Rebar Fixing		7	7	17-Apr-17 A	26-Apr-17	-73	Calendar Day				OHVD Bas	se Slab (North) - F	ormwork & F
)-T5-B10-1250	OHVD Base Slab (North) - Concr	ete & Curing		2	2	03-May-17	04-May-17	-72	Calendar Day					OHVD Base Slab	(North) - Co
-T5-B10-1260	OHVD Base Slab (North) - Hange	er Wall & Scaffolding to Roof		3	3	05-May-17	07-May-17	-70	Calendar Day					OHVD Base	- 1 î î î
)-T5-B10-1270	OHVD Base Slab (South) - Scaffo	Iding Erection	1	10	0	10-Apr-17 A	19-Apr-17 A		Calendar Day					outh) - Scaffolding	
)-T5-B10-1280	OHVD Base Slab (South) - Formv			7	8	20-Apr-17 A	02-May-17	-73	Calendar Day					HVD Base Slab (S	1 1 1
-T5-B10-1290	OHVD Base Slab (South) - Concr	-		2	2	03-May-17	04-May-17	-73	Calendar Day					OHVD Base Slab	
D-T5-B10-1300	OHVD Base Slab (South) - Hange	er Wall & Scaffolding to Roof		3	3	05-May-17	07-May-17	-70	Calendar Day					OHVD Base	
0-T5-B10-1350	Roof - Waterproofing			7	7	05-May-17	12-May-17	-73	Calendar Day					Roof -	Waterproofin
-T5-B10-1360	Roof - Rebar Fixing & Formwork			14	14	10-May-17	24-May-17	-73	Calendar Day						Ro
-T5-B10-1370	Roof - Concrete			1	1	24-May-17	25-May-17	-73	Calendar Day						
0-T5-B10-1380	Roof - Curing			12	12	25-May-17	07-Jun-17	-73	Calendar Day						
)-T5-B10-1390	Roof - Scaffolding Dismantling			7	7	07-Jun-17	14-Jun-17	-41	Calendar Day						
y 9 0-T5-B9-1090	Wall (North) Curine & Farmurat	Dismonting		3	0	21-Mor 47 A	23-Mar-17 A		Colondor Dou		th) - Curing & Ec-	mwork Diaman	ting		1
D-T5-B9-1090 D-T5-B9-1100	Wall (North) - Curing & Formwork Wall (South) - Waterproofing & Wa			3	0	21-Mar-17 A 22-Mar-17 A	23-Mar-17 A 25-Mar-17 A		Calendar Day Calendar Day	-	th) - Curing & Forr outh) - Waterproo				
)-T5-B9-1100)-T5-B9-1110	Wall (South) - Waterproofing & W			4 3	0	22-Mar-17 A 26-Mar-17 A	25-Mar-17 A 28-Mar-17 A		Calendar Day Calendar Day		(South) - Waterproo		,		
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Critical Mil	estones														Rev. I
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Critical Wo	orks	JOINT VENTURE	WD II - (Jel	ntra	ai wanc	nai By	pass	at wan	unal	⊏ast (C	ontrac	π∠)		
Remaining	Level of Effort		2	_N/	UVI.					F (44	20-Anr-	17)			
Remaining	g Level of Effort		3.	-M	ON	TH ROL	LING F	PRO	GRAMM	E (dd	20-Apr-	17)			

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I)	- Hanger	Wall & So	affolding	to F	Roof, C	HVD Bas	e Slab	(N	orth) - Ha	nger Wa	
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2	Rebar Fix	ing, OHV	D Base S	lab	(North) - Form	vork & I	Ret	oar Fixing		
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r	hwork & R	ebar Fixi	hq, OHV⊓	B	ase SI:	ab (South)) - Forn	าพต	ork & Reh	ar Fixing	
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ī)	- Hanger	Wall & S	caffolding	to I	Roof, C	DHVD Ba	se Slab	(S	outh) - H	anger Wa	3
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ctivity ID	Activity Name		Ori Dur	Rem Dur	Scheduled/ Actual Start	Scheduled/ Actual Finish	Total Float	Calendar	April	2017 May
							- Iour		26 02 09 16 23 30 07	14 21
S10-T5-B9-1120	Wall (South) - Formwork		2	0	29-Mar-17 A	30-Mar-17 A		Calendar Day	Wall (South) - Formwork	
S10-T5-B9-1130 S10-T5-B9-1140	Wall (South) - Concrete		1	0	31-Mar-17 A	31-Mar-17 A 03-Apr-17 A		Calendar Day	Wall (South) - Concrete Wall (South) - Curing & Formwork Dismanting	
S10-T5-B9-1185	Wall (South) - Curing & Formwork Construct Roadside Barriers	Dismanting	3	0	01-Apr-17 A 20-Mar-17 A	06-Apr-17 A		Calendar Day Calendar Day	Construct Roadside Barriers	
S10-T5-B9-1103	OHVD Base Slab (North) - Scaffo		10	0	07-Apr-17 A	17-Apr-17 A		Calendar Day	OHVD Base Slab (North) - Scaffold	ing Frection
S10-T5-B9-1240	OHVD Base Slab (North) - Formy	6	7	7	18-Apr-17 A	26-Apr-17	-26	Calendar Day	OHVD Base Slab (No	
S10-T5-B9-1250	OHVD Base Slab (North) - Concr	-	2	2	28-Apr-17	29-Apr-17	-26	Calendar Day	■ OHVD Base Slab	
S10-T5-B9-1260	OHVD Base Slab (North) - Hange	-	3	3	30-Apr-17	02-May-17	-26	Calendar Day		
S10-T5-B9-1270	OHVD Base Slab (South) - Scaffo	-	10	0	08-Apr-17 A	17-Apr-17 A	20	Calendar Day	OHVD Base Slab (South) - Scaffold	
S10-T5-B9-1280	OHVD Base Slab (South) - Form	-	7	7	18-Apr-17 A	27-Apr-17	-26	Calendar Day	OHVD Base Slab (S	•
S10-T5-B9-1290	OHVD Base Slab (South) - Concr		2	2	28-Apr-17	29-Apr-17	-26	Calendar Day	OHVD Base Slab	
S10-T5-B9-1300	OHVD Base Slab (South) - Hange		3	3	30-Apr-17	02-May-17	-26	Calendar Day	OHVD Base S	
S10-T5-B9-1350	Roof - Waterproofing		7	7	30-Apr-17	06-May-17	-25	Calendar Day		aterproofing, Roo
S10-T5-B9-1360	Roof - Rebar Fixing & Formwork		11	11	08-May-17	18-May-17	-31	Calendar Day		Roof - Rel
S10-T5-B9-1370	Roof - Concrete		1	1	19-May-17	19-May-17	-31	Calendar Day		Roof - C
S10-T5-B9-1380	Roof - Curing		12	12	20-May-17	01-Jun-17	-31	Calendar Day	<u>+</u>	
S10-T5-B9-1390	Roof - Scaffolding Dismantling		7	7	01-Jun-17	08-Jun-17	-31	Calendar Day		
Bay 8A - Roof only			- -		or our m		0.	oulondar Day		
S10-T5-B8A-1350	Roof - Waterproofing		7	7	29-Apr-17	05-May-17	-36	Calendar Day	Roof - Wa	terproofing, Roof
S10-T5-B8A-1360	Roof - Rebar Fixing & Formwork		14	14	06-May-17	19-May-17	-36	Calendar Day		Roof - R
S10-T5-B8A-1370	Roof - Concrete		1	1	20-May-17	20-May-17	-36	Calendar Day		Roof - 0
S10-T5-B8A-1380	Roof - Curing		12	. 12	21-May-17	02-Jun-17	-36	Calendar Day		
S10-T5-B8A-1390	Roof - Scaffolding Dismantling		7	7	02-Jun-17	09-Jun-17	-36	Calendar Day		
Bay 8			-		oz odin m		00	Calondar Day		
S10-T5-B8-1100	Wall (South) - Waterproofing & W	orking Platform	4	0	20-Mar-17 A	23-Mar-17 A		Calendar Day	Wall (South) - Waterproofing & Working Platform	
S10-T5-B8-1110	Wall (South) - Rebar Fixing		3	0	24-Mar-17 A	26-Mar-17 A		Calendar Day	🔲 Wall (South) - Rebar Fixing	
S10-T5-B8-1120	Wall (South) - Formwork		2	0	27-Mar-17 A	28-Mar-17 A		Calendar Day	Wall (South) - Formwork	
S10-T5-B8-1130	Wall (South) - Concrete		1	0	29-Mar-17 A	29-Mar-17 A		Calendar Day	Wall (South) - Concrete	
S10-T5-B8-1140	Wall (South) - Curing & Formwork	Dismantling	3	0	30-Mar-17 A	01-Apr-17 A		Calendar Day	Wall (South) - Curing & Formwork Dismantling	
S10-T5-B8-1185	Construct Roadside Barriers		7	0	20-Mar-17 A	05-Apr-17 A		Calendar Day	Construct Roadside Barriers	
S10-T5-B8-1230	OHVD Base Slab (North) - Scaffo	olding Frection	10	0	03-Apr-17 A	09-Apr-17 A		Calendar Day	OHVD Base Slab (North) - Scaffolding Erectio	n !
S10-T5-B8-1240	OHVD Base Slab (North) - Formy	-	7	0	10-Apr-17 A	16-Apr-17 A		Calendar Day	OHVD Base Slab (North) + Formwor	
S10-T5-B8-1250	OHVD Base Slab (North) - Concr	-	2	0	17-Apr-17 A	18-Apr-17 A		Calendar Day	OHVD Base Slab (North) - Concrete	-
S10-T5-B8-1260	OHVD Base Slab (North) - Hange	-	3	2	19-Apr-17 A	21-Apr-17	-22	Calendar Day	OHVD Base Slab (North) - H	
S10-T5-B8-1270	OHVD Base Slab (South) - Scaffo		10	0	04-Apr-17 A	16-Apr-17 A		Calendar Day	OHVD Base Slab (South) + Scaffoldir	-
S10-T5-B8-1280	OHVD Base Slab (South) - Form	•	7	4	17-Apr-17 A	23-Apr-17	-36	Calendar Day	OHVD Base Slab (South)	
S10-T5-B8-1290	OHVD Base Slab (South) - Concr	-	2	2	24-Apr-17	25-Apr-17	-36	Calendar Day	OHVD Base Slab (Sout	
S10-T5-B8-1300	OHVD Base Slab (South) - Hange	-	3	3	26-Apr-17	28-Apr-17	-27	Calendar Day	OHVD Base Slab (
S10-T5-B8-1350	Roof - Waterproofing		7	7	20-Apr-17 A	02-May-17	-36	Calendar Day	· · _ <u>_</u> · · _ ``	proofing, Roof - Wa
S10-T5-B8-1360	Roof - Rebar Fixing & Formwork		14	. 14	01-May-17	14-May-17	-31	Calendar Day		Roof - Rebar Fi
S10-T5-B8-1370	Roof - Concrete		1	1	15-May-17	15-May-17	-31	Calendar Day	<u> </u>	Roof - Concre
S10-T5-B8-1380	Roof - Curing		12	12	16-May-17	28-May-17	-31	Calendar Day		
S10-T5-B8-1390	Roof - Scaffolding Dismantling		7		28-May-17	04-Jun-17	-31	Calendar Day		
Bay 7	Root - Scarolaing Dismanting		,	1	20-Way-17	04-0011-17	-01	Galendar Day		
S10-T5-B7-1100	Wall (South) - Waterproofing & W	orking Platform	4	0	18-Mar-17 A	21-Mar-17 A		Calendar Day	Wall (South) - Waterproofing & Working Platform	
S10-T5-B7-1110	Wall (South) - Rebar Fixing		3	0	22-Mar-17 A	24-Mar-17 A		Calendar Day	Wall (South) - Rebar Fixing	
S10-T5-B7-1120	Wall (South) - Formwork		2	0	22-Mar-17 A 26-Mar-17 A	24-Mar-17 A 26-Mar-17 A		Calendar Day	Wall (South) - Formwork	
S10-T5-B7-1120	Wall (South) - Concrete		1	0	20-Mar-17 A 27-Mar-17 A	20-Mar-17 A 27-Mar-17 A		Calendar Day Calendar Day	Wall (South) - Concrete	
S10-T5-B7-1130	,	Dismantling	3	0	27-Mar-17 A 28-Mar-17 A	30-Mar-17 A		Calendar Day Calendar Day	Wall (South) - Curing & Formwork Dismanting	
S10-T5-B7-1140	Wall (South) - Curing & Formwork Construct Roadside Barriers	Cosmanting	7	0	28-Mar-17 A 03-Mar-17 A	30-Mar-17 A 23-Mar-17 A		Calendar Day Calendar Day	Construct Roadside Barriers	
S10-T5-B7-1230		Iding Erection	10	0	27-Mar-17 A	04-Apr-17 A			OHVD Base Slab (North) - Scaffolding Erection	
S10-T5-B7-1230	OHVD Base Slab (North) - Scaffo	-		0		· ·		Calendar Day	OHVD Base Slab (North) - Scatoling Election	ar Fixing
S10-T5-B7-1240	OHVD Base Slab (North) - Formy	-	2	0	05-Apr-17 A	11-Apr-17 A		Calendar Day	OHVD Base Slab (North) - Concrete & C	-
	OHVD Base Slab (North) - Concr	-			12-Apr-17 A	13-Apr-17 A		Calendar Day	OHVD Base Slab (North) - Collicie & C	
S10-T5-B7-1260	OHVD Base Slab (North) - Hange	-	3	0	14-Apr-17 A	16-Apr-17 A		Calendar Day	OHVD Base Slab (Noitri) - Hanger V	i all a Scaroluing t
S10-T5-B7-1310	OHVD Base Slab (South) - Scaffo	-	10	0	28-Mar-17 A	05-Apr-17 A		Calendar Day		inste 9. Debes Fivin
S10-T5-B7-1320	OHVD Base Slab (South) - Form	WORK & Rebar Fixing	7	0	06-Apr-17 A	18-Apr-17 A		Calendar Day	• HVD Base Slab (South) - Form	
 Milestone 										Date
										Rev.
Critical M	llestones	CHUN WO - CRGL			CEDD	CONTO			(/2009/02	
Current V	Vorks									
Critical W	/orks	JOINT VENTURE	WD II - Ce	entra	al Wand	hai Bvr	bass	at Wan	Chai East (Contract 2)	
Remainin	g Level of Effort		3-N	ION	TH ROL	_LING F	RO	GRAMM	E (dd 20-Apr-17)	
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3-MONTH ROLLING PROGRAMME (dd 20-Apr-17)

							Page	4 of 9
_			June				July	
	28	04	11	18	25	02	09	16
-	Rebar Fix	ing, OHV	D Base S	ab (North) - Formv	vork & Re	bar Fixing)
- 1	-				Concrete			
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8	Rebar F	ixing, OH	VD Base	Slab (Sou	th) - Forr	nwork & F	Rebar Fixi	ng
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- 1	ger Wall & f- Waterp		ng to Roc	f, OHVD	Base Slat	(South)	Hanger	Wall & Sca
		-	ork, Roof	- Rebar F	ixing & F	ormwork	- - - -	
2	oncrete, F	oof - Cor	icrete					
	R	oof - Curi			emonilie	Poof C	coffoldin	Dismont
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	Waterpro	pofing						
- 3				f - Rebar	Fixing &	Formworl	ξ 	
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						g, Roof -	Scaffoldir	ng Disman
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f	olding to	Roof, OH	VD Base	Slab (Nor	th) - Hang	er Wall &	Scaffoldi	ng to Roof
b	ar Fixing,	OHVD B	ase Slab	(South) -	Formworl	& Rebar	Fixing	
cļ	uring, OH	VD Base	Slab (Sou	th) - Con	crete & C	uring		
1		-	Roof, OH	VD Base	Slab (Sou	th) - Han	ger Wall &	Scaffoldir
1	iterproofir king & Foi	i i i i i i i i i i i i i i i i i i i	¦ Roof - Ret	ar Fixing	& Formw	ork	1 1 1 1	
- 1		Concrete		5				
	Roof -	Curing, R		-			- - - -	
		Roof -	Scaffoldir	ng Dismar	tling, Roc	f - Scaffo	lding Di sm	antling
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	Activity Name	Ori Dur	Rem Dur	Scheduled/ Actual Start	Scheduled/ Actual Finish	Total Float	Calendar	2017 April May June July
610-T5-B7-1330	OHVD Base Slab (South) - Concrete & Curing	2	0	19-Apr-17 A	20-Apr-17 A		Calendar Day	26 02 09 16 23 30 07 14 21 28 04 11 18 25 02 09 Image: Colspan="4">Concrete & Curing
610-T5-B7-1340	OHVD Base Slab (South) - Hanger Wall & Scaffolding to Roof	3	3	20-Apr-17	22-Apr-17	-31	Calendar Day	OHVD Base Slab (South) - Hanger Wall & Scaffolding to Roof, OHVD Base Slab (South) - Hanger Wall & Scaffol
310-T5-B7-1350	Roof - Waterproofing	7	6	18-Apr-17 A	26-Apr-17	-34	Calendar Day	Roof - Waterproofing, Roof - Waterproofing
610-T5-B7-1360	Roof - Rebar Fixing & Formwork	12	12	25-Apr-17	07-May-17	-34	Calendar Day	Roof - Rebar Fixing & Formwork, Roof - Rebar Fixing & Formwork
310-T5-B7-1370	Roof - Concrete	1	1	07-May-17	08-May-17	-34	Calendar Day	Roof- Concrete
310-T5-B7-1380 310-T5-B7-1390	Roof - Curing Roof - Scaffolding Dismantling	12	12	08-May-17 21-May-17	21-May-17 28-May-17	-34 -34	Calendar Day Calendar Day	Roof - Curing, Roof - Curing Roof - Scaffolding Dismantling, Roof - Scaffolding Dismantling
ay 6A - Roof only		1	1	21-101ay-17	20-Way-17	-34	Calendar Day	
0-T5-B6A-1410	Roof - Waterproofing	7	3	16-Apr-17 A	22-Apr-17	-10	Calendar Day	Roof - Waterproofing, Roof - Waterproofing
610-T5-B6A-1411	Roof - Rebar Fixing & Formwork	13	13	20-Apr-17	02-May-17	-10	Calendar Day	Roof - Rebar, Fixing & Formwork, Roof - Rebar Fixing & Formwork
610-T5-B6A-1412	Roof - Concrete	1	1	03-May-17	03-May-17	-10	Calendar Day	Roof - Concrete, Roof - Concrete
310-T5-B6A-1413	Roof - Curing	12	12	04-May-17	16-May-17	-10	Calendar Day	Roof - Curing, Roof - Curing
610-T5-B6A-1414	Roof - Scaffolding Dismantling	7	7	16-May-17	23-May-17	-1	Calendar Day	Roof - Scaffolding Dismantling, Roof - Scaffolding Dismantling
ay 6								
310-T5-B6-1120 310-T5-B6-1130	Wall (South) - Formwork Wall (South) - Concrete	2	0	21-Mar-17 A 23-Mar-17 A	22-Mar-17 A 23-Mar-17 A		Calendar Day Calendar Day	Wall (South) - Formwork Wall (South) - Concrete
310-15-86-1130 310-T5-86-1140	Wall (South) - Curing & Formwork Dismantling	3	0	23-Mar-17 A 24-Mar-17 A	23-Mar-17 A 26-Mar-17 A		Calendar Day Calendar Day	Wall (South) - Curing & Formwork Dismantling
610-T5-B6-1225	Construct Roadside Barriers	7	0	12-Feb-17 A	20-Mar-17 A		Calendar Day	Construct Roadside Barriers
S10-T5-B6-1230	OHVD Base Slab (North) - Scaffolding Erection	10	0	15-Mar-17 A	24-Mar-17 A		Calendar Day	OHVD Base Slab (North) - \$caffolding Erection
610-T5-B6-1240	OHVD Base Slab (North) - Formwork & Rebar Fixing	7	0	25-Mar-17 A	11-Apr-17 A		Calendar Day	OHVD Base Slab (North) - Formwork & Rebar Fixing
610-T5-B6-1250	OHVD Base Slab (North) - Concrete & Curing	2	0	12-Apr-17 A	13-Apr-17 A		Calendar Day	OHVD Base Slab (North) - Concrete & Curing
310-T5-B6-1260	OHVD Base Slab (North) - Hanger Wall & Scaffolding to Roof	3	0	14-Apr-17 A	16-Apr-17 A		Calendar Day	OHVD Base Slab (North) - Hanger Wall & Scaffolding to Roof
310-T5-B6-1315	OHVD Base Slab (South) - Scaffolding Erection	10	0	29-Mar-17 A	06-Apr-17 A		Calendar Day	OHVD Base Slab (South) - Scaffolding Erection
310-T5-B6-1320	OHVD Base Slab (South) - Formwork & Rebar Fixing	7	0	07-Apr-17 A	18-Apr-17 A		Calendar Day	DHVD Base Slab (South) - Formwork & Rébar Fixing
310-T5-B6-1325	OHVD Base Slab (South) - Concrete & Curing	2	0	19-Apr-17 A	20-Apr-17	-28	Calendar Day	OHVD Basie Slab (Sbuth) - Concrete & Curing, OHVD Basie Slab (Sbuth) - Concrete & Curing OHVD Basie Slab (South) - Lineare Wall & Southalting to Basie Slab (South) - Lineare Wall & Southalting to Basie Slab (South) - Lineare Wall & Southalting to Basie Slab (South) - Concrete & Curing
310-T5-B6-1330 310-T5-B6-1350	OHVD Base Slab (South) - Hanger Wall & Scaffolding to Roof Roof - Waterproofing	3	3	20-Apr-17	22-Apr-17	-29	Calendar Day	OHVD Base Slab (South) - Hanger Wall & Scaffolding to Roof, OHVD Base Slab (South) - Hanger Wall & Scaffol Roof - Waterproofing, Roof - Waterproofing
S10-T5-B6-1350	Roof - Rebar Fixing & Formwork	11	9	16-Apr-17 A 18-Apr-17 A	22-Apr-17 01-May-17	-26 -29	Calendar Day Calendar Day	Roof - Water produing, Roof - Vater produing Roof - Rebar Fixing & Formwork
610-T5-B6-1370	Roof - Concrete	1	1	02-May-17	02-May-17	-29	Calendar Day	Roof - Concrete
310-T5-B6-1380	Roof - Curing	12	12	03-May-17	15-May-17	-9	Calendar Day	Roof - Curing, Roof - Curing
610-T5-B6-1390	Roof - Scaffolding Dismantling	7	7	15-May-17	22-May-17	-1	Calendar Day	Roof - Scaffolding Dismantling, Roof - Scaffolding Dismantling, Roof - Scaffolding Dismantling
ay 5 (3 Cells) 310-T5-B5-1225	Construct Roadside Barriers	7	0	13-Feb-17 A	05-Apr-17 A	1	Calendar Day	Construct Roadside Barriers
\$10-T5-B5-1230	OHVD Base Slab (North & Middle) - Scaffolding Erection	14	0	15-Mar-17 A	28-Mar-17 A		Calendar Day	OHVD Base Slab (North & Niddle) - Scaffolding Erection
310-T5-B5-1240	OHVD Base Slab (North & Middle) - Formwork & Rebar Fixing	13	0	29-Mar-17 A	09-Apr-17 A		Calendar Day	OHVD Base Slab (North & Middle) - Formwork & Rebar Fixing
310-T5-B5-1250	OHVD Base Slab (North & Middle) - Concrete & Curing	2	0	10-Apr-17 A	11-Apr-17 A		Calendar Day	OHVD Base Slab (North & Middle) - Concrete & Curing
310-T5-B5-1260	OHVD Base Slab (North & Middle) - Hanger Wall & Scaffolding to Roof	3	0	12-Apr-17 A	14-Apr-17 A		Calendar Day	OHVD Base Slab (North & Middle) - Hanger Wall & Scaffolding to Roof
10-T5-B5-1310	OHVD Base Slab (South) - Scaffolding Erection	10	0	28-Mar-17 A	05-Apr-17 A		Calendar Day	OHVD Base Slat (South) - Scaffolding Erection
10-T5-B5-1320	OHVD Base Slab (South) - Formwork & Rebar Fixing	7	0	06-Apr-17 A	16-Apr-17 A		Calendar Day	OHVD Base Slab (South) - Formwork & Rebar Fixing
10-T5-B5-1330	OHVD Base Slab (South) - Concrete & Curing	2	0	17-Apr-17 A	18-Apr-17 A	40	Calendar Day	
10 TE DE 1010	OHVD Base Slab (South) - Hanger Wall & Scaffolding to Roof Roof - Waterproofing	3	2	19-Apr-17 A	21-Apr-17	-12 -12	Calendar Day	OHVD Base Slab (South) - Hanger Wall & Scatfolding to Roof, OHVD Base Slab (South) - Hanger Wall & Scatfold Roof - Waterproofing, Roof - Waterproofing
		14	14	19-Apr-17 A 21-Apr-17	21-Apr-17 05-May-17	-12	Calendar Day Calendar Day	Roof - Rebar Fixing & Formwork, Roof - Rebar Fixing & Formwork
10-T5-B5-1350				21700117				
10-T5-B5-1350 10-T5-B5-1360	Roof - Rebar Fixing & Formwork	14	1	05-May-17	05-May-17	-1Z		Roof - Concrete, Roof - Concrete
10-T5-B5-1350 10-T5-B5-1360 10-T5-B5-1370		1	1	05-May-17 06-May-17	05-May-17 18-May-17	-12 -12	Calendar Day Calendar Day	Roof - Concrete Roof - Curing, Roof - Curing
10-T5-B5-1350 10-T5-B5-1360 10-T5-B5-1370 10-T5-B5-1380	Roof - Rebar Fixing & Formwork Roof - Concrete	14 1 12 7	1 12 7	05-May-17 06-May-17 18-May-17	05-May-17 18-May-17 25-May-17	-12 -12 -4	Calendar Day Calendar Day Calendar Day	
10-T5-B5-1350 10-T5-B5-1360 10-T5-B5-1370 10-T5-B5-1380 10-T5-B5-1390	Roof - Rebar Fixing & Formwork Roof - Concrete Roof - Curing	1 12		06-May-17	18-May-17	-12	Calendar Day	Roof - Curing, Roof - Curing
10-T5-B5-1350 10-T5-B5-1360 10-T5-B5-1370 10-T5-B5-1380 10-T5-B5-1390 ty 4 (3 Cells)	Roof - Rebar Fixing & Formwork Roof - Concrete Roof - Curing	1 12		06-May-17	18-May-17	-12	Calendar Day	Roof - Curing, Roof - Curing Roof - Scaffolding Dismantling, Roof - Scaffolding Dismantling Wall (South) - Waterproofing & Working Platform
10-T5-B5-1350 10-T5-B5-1360 10-T5-B5-1370 10-T5-B5-1380 10-T5-B5-1390 y4 (3 Celis) 10-T5-B4-1100 10-T5-B4-1110	Roof - Rebar Fixing & Formwork Roof - Concrete Roof - Curing Roof - Scaffolding Dismantling Wall (South) - Waterproofing & Working Platform Wall (South) - Rebar Fixing	1 12 7 4 3	7	06-May-17 18-May-17 19-Mar-17 A 23-Mar-17 A	18-May-17 25-May-17 22-Mar-17 A 25-Mar-17 A	-12	Calendar Day Calendar Day Calendar Day Calendar Day	Wall (South) - Waterproofing & Working Platform
10-T5-B5-1340 10-T5-B5-1350 10-T5-B5-1360 10-T5-B5-1370 10-T5-B5-1380 10-T5-B5-1380 ay 4 (3 Cells) 10-T5-B4-1100 10-T5-B4-1120 10-T5-B4-120	Roof - Rebar Fixing & Formwork Roof - Concrete Roof - Curing Roof - Scaffolding Dismantling Wall (South) - Waterproofing & Working Platform Wall (South) - Rebar Fixing Wall (South) - Formwork	1 12 7 4 3 2	7 0 0 0	06-May-17 18-May-17 19-Mar-17 A 23-Mar-17 A 26-Mar-17 A	18-May-17 25-May-17 22-Mar-17 A 25-Mar-17 A 27-Mar-17 A	-12	Calendar Day Calendar Day Calendar Day Calendar Day Calendar Day	Wall (South) - Waterproofing & Working Platform Wall (South) - Rebar Fixing Wall (South) - Formwork
10-T5-B5-1350 10-T5-B5-1360 10-T5-B5-1370 10-T5-B5-1380 10-T5-B5-1390 y 4 (3 Cells) 10-T5-B4-1100 10-T5-B4-1110 10-T5-B4-1120 10-T5-B4-1130	Roof - Rebar Fixing & Fornwork Roof - Concrete Roof - Curing Roof - Scaffolding Dismantling Wall (South) - Waterproofing & Working Platform Wall (South) - Rebar Fixing Wall (South) - Fornwork Wall (South) - Concrete	1 12 7 4 3 2 1	7 0 0 0 0 0	06-May-17 18-May-17 19-Mar-17 A 23-Mar-17 A 26-Mar-17 A 28-Mar-17 A	18-May-17 25-May-17 22-Mar-17 A 25-Mar-17 A 27-Mar-17 A 28-Mar-17 A	-12	Calendar Day Calendar Day Calendar Day Calendar Day Calendar Day Calendar Day	Wall (South) - Waterproofing & Working Platform Wall (South) - Rebar Fixing Wall (South) - Formwork Wall (South) - Concrete
10-T5-B5-1350 10-T5-B5-1360 10-T5-B5-1370 10-T5-B5-1380 10-T5-B5-1390 14 (3 Cells) 10-T5-B4-1100 10-T5-B4-1120 10-T5-B4-1130 10-T5-B4-1140	Roof - Rebar Fixing & Formwork Roof - Concrete Roof - Curing Roof - Scaffolding Dismantling Wall (South) - Waterproofing & Working Platform Wall (South) - Rebar Fixing Wall (South) - Formwork Wall (South) - Concrete Wall (South) - Couring & Formwork Dismantling	1 12 7 4 3 2 1 1 3	7 0 0 0 0 0 0	06-May-17 18-May-17 19-Mar-17 A 23-Mar-17 A 26-Mar-17 A 28-Mar-17 A 29-Mar-17 A	18-May-17 25-May-17 22-Mar-17 A 25-Mar-17 A 27-Mar-17 A 28-Mar-17 A 31-Mar-17 A	-12	Calendar Day Calendar Day Calendar Day Calendar Day Calendar Day Calendar Day Calendar Day	Wall (South) - Waterproofing & Working Platform Wall (South) - Rebar Fixing Wall (South) - Rebar Fixing Wall (South) - Formwork Wall (South) - Concrete Wall (South) - Concrete Wall (South) - Curing & Formwork Dismantling
10-T5-B5-1350 10-T5-B5-1360 10-T5-B5-1370 10-T5-B5-1380 10-T5-B5-1390 ay 4 (3 Cells) 10-T5-B4-1100 10-T5-B4-1120 10-T5-B4-1130 10-T5-B4-1140 10-T5-B4-1230	Roof - Rebar Fixing & Formwork Roof - Concrete Roof - Curing Roof - Scaffolding Dismantling Wall (South) - Waterproofing & Working Platform Wall (South) - Rebar Fixing Wall (South) - Formwork Wall (South) - Formwork Wall (South) - Concrete Wall (South) - Curing & Formwork Dismanting OHVD Base Slab (North and Middle) - Scaffolding Erection	1 12 7 4 3 2 1 3 14	7 0 0 0 0 0 0 0 0 0	06-May-17 18-May-17 23-Mar-17 A 26-Mar-17 A 28-Mar-17 A 29-Mar-17 A 11-Mar-17 A	18-May-17 25-May-17 22-Mar-17 A 25-Mar-17 A 27-Mar-17 A 28-Mar-17 A 31-Mar-17 A	-12	Calendar Day Calendar Day Calendar Day Calendar Day Calendar Day Calendar Day Calendar Day Calendar Day	Wall (South) - Waterproofing & Working Platform Wall (South) - Rebar Fixing Wall (South) - Rebar Fixing Wall (South) - Formwork Wall (South) - Concrete Wall (South) - Curing & Formwork Dismantling OHVD Base Slab (North and Middle) - Scaffolding Erection
10-T5-B5-1350 10-T5-B5-1360 10-T5-B5-1370 10-T5-B5-1380 10-T5-B5-1390 14 (3 Cells) 10-T5-B4-1100 10-T5-B4-1120 10-T5-B4-1130 10-T5-B4-1140 10-T5-B4-1230 10-T5-B4-1240	Roof - Rebar Fixing & Formwork Roof - Concrete Roof - Curing Roof - Scaffolding Dismantling Wall (South) - Waterproofing & Working Platform Wall (South) - Rebar Fixing Wall (South) - Formwork Wall (South) - Formwork Wall (South) - Concrete Wall (South) - Curing & Formwork Dismanting OHVD Base Slab (North and Middle) - Scaffolding Erection OHVD Base Slab (North and Middle) - Formwork & Rebar Fixing	1 12 7 4 3 2 1 3 14 3 14	7 0 0 0 0 0 0	06-May-17 18-May-17 23-Mar-17 A 26-Mar-17 A 28-Mar-17 A 29-Mar-17 A 11-Mar-17 A 26-Mar-17 A	18-May-17 25-May-17 22-Mar-17 A 25-Mar-17 A 27-Mar-17 A 28-Mar-17 A 31-Mar-17 A 25-Mar-17 A	-12	Calendar Day Calendar Day Calendar Day Calendar Day Calendar Day Calendar Day Calendar Day Calendar Day Calendar Day	Wall (South) - Waterproofing & Working Platform Wall (South) - Rebar Fixing Wall (South) - Rebar Fixing Wall (South) - Formwork Wall (South) - Concrete Wall (South) - Concrete Wall (South) - Curing & Formwork Dismantling
10-T5-B5-1350 10-T5-B5-1360 10-T5-B5-1370 10-T5-B5-1380 10-T5-B5-1390 ay 4 (3 Cells) 10-T5-B4-1100 10-T5-B4-1120 10-T5-B4-1130 10-T5-B4-1140 10-T5-B4-1230 10-T5-B4-1240 10-T5-B4-1250	Roof - Rebar Fixing & Formwork Roof - Concrete Roof - Curing Roof - Scaffolding Dismantling Wall (South) - Waterproofing & Working Platform Wall (South) - Rebar Fixing Wall (South) - Formwork Wall (South) - Formwork Wall (South) - Concrete Wall (South) - Curing & Formwork Dismanting OHVD Base Slab (North and Middle) - Scaffolding Erection	1 12 7 4 3 2 1 3 14	7 0 0 0 0 0 0 0 0 0 0	06-May-17 18-May-17 23-Mar-17 A 26-Mar-17 A 28-Mar-17 A 29-Mar-17 A 11-Mar-17 A	18-May-17 25-May-17 22-Mar-17 A 25-Mar-17 A 27-Mar-17 A 28-Mar-17 A 31-Mar-17 A	-12	Calendar Day Calendar Day Calendar Day Calendar Day Calendar Day Calendar Day Calendar Day Calendar Day	Wall (South) - Waterproofing & Working Platform Wall (South) - Rebar Fixing Wall (South) - Rebar Fixing Wall (South) - Formwork Wall (South) - Concrete Wall (South) - Curing & Formwork Dismanting OHVD Base Slab (North and Middle) - Scaffolding Erection OHVD Base Slab (North and Middle) - Formwork & Rebar Fixing
10-T5-B5-1350 10-T5-B5-1360 10-T5-B5-1370 10-T5-B5-1380 10-T5-B5-1390 y4 (3 Cells) 10-T5-B4-1100 10-T5-B4-1100 10-T5-B4-1120 10-T5-B4-1230 10-T5-B4-1240 10-T5-B4-1250 10-T5-B4-1260	Roof - Rebar Fixing & Formwork Roof - Concrete Roof - Curing Roof - Scaffolding Dismantling Wall (South) - Waterproofing & Working Platform Wall (South) - Rebar Fixing Wall (South) - Rebar Fixing Wall (South) - Formwork Wall (South) - Concrete Wall (South) - Curing & Formwork Dismantling OHVD Base Slab (North and Middle) - Scaffolding Erection OHVD Base Slab (North and Middle) - Formwork & Rebar Fixing OHVD Base Slab (North and Middle) - Concrete & Curing OHVD Base Slab (North and Middle) - Hanger Wall & Scaffolding to Roof	1 12 7 4 3 2 1 1 3 14 13 2	7 0 0 0 0 0 0 0 0 0 0 0 0 0 0	06-May-17 18-May-17 23-Mar-17 A 26-Mar-17 A 28-Mar-17 A 29-Mar-17 A 11-Mar-17 A 26-Mar-17 A 16-Apr-17 A	18-May-17 25-May-17 25-Mar-17 A 25-Mar-17 A 27-Mar-17 A 28-Mar-17 A 31-Mar-17 A 25-Mar-17 A 15-Apr-17 A	-12	Calendar Day Calendar Day Calendar Day Calendar Day Calendar Day Calendar Day Calendar Day Calendar Day Calendar Day Calendar Day	Wall (South) - Waterproofing & Working Platform Wall (South) - Rebar Fixing Wall (South) - Rebar Fixing Wall (South) - Formwork Wall (South) - Formwork Wall (South) - Concrete Wall (South) - Curing & Formwork Dismanting OHVD Base Slab (North and Middle) - Scaffolding Erection OHVD Base Slab (North and Middle) - Formwork & Rebar Fixing OHVD Base Slab (North and Middle) - Concrete & Curing OHVD Base Slab (North and Middle) - Hanger Wall & Scaffolding to Roof
10-T5-B5-1350 10-T5-B5-1360 10-T5-B5-1380 10-T5-B5-1380 10-T5-B5-1390 ay 4 (3 Cells) 10-T5-B4-1100 10-T5-B4-1120 10-T5-B4-1130 10-T5-B4-1130 10-T5-B4-1230 10-T5-B4-1250 10-T5-B4-1260 ♦ Milestone	Roof - Rebar Fixing & Formwork Roof - Concrete Roof - Curing Roof - Scaffolding Dismantling Wall (South) - Waterproofing & Working Platform Wall (South) - Rebar Fixing Wall (South) - Rebar Fixing Wall (South) - Formwork Wall (South) - Concrete Wall (South) - Concrete Wall (South) - Curing & Formwork Dismantling OHVD Base Slab (North and Middle) - Scaffolding Erection OHVD Base Slab (North and Middle) - Formwork & Rebar Fixing OHVD Base Slab (North and Middle) - Concrete & Curing OHVD Base Slab (North and Middle) - Hanger Wall & Scaffolding to Roof	1 12 7 4 3 2 1 1 3 14 13 2	7 0 0 0 0 0 0 0 0 0 0 0 0 0 0	06-May-17 18-May-17 23-Mar-17 A 26-Mar-17 A 28-Mar-17 A 29-Mar-17 A 11-Mar-17 A 26-Mar-17 A 16-Apr-17 A	18-May-17 25-May-17 25-Mar-17 A 25-Mar-17 A 27-Mar-17 A 28-Mar-17 A 31-Mar-17 A 25-Mar-17 A 15-Apr-17 A	-12	Calendar Day Calendar Day Calendar Day Calendar Day Calendar Day Calendar Day Calendar Day Calendar Day Calendar Day Calendar Day	Wall (South) - Waterproofing & Working Platform Wall (South) - Rebar Fixing Wall (South) - Rebar Fixing Wall (South) - Formwork Wall (South) - Formwork Wall (South) - Concrete Wall (South) - Concrete Wall (South) - Concrete Wall (South) - Concrete Wall (South) - Curing & Formwork Dismanting OHVD Base Stab (North and Middle) - Scaffolding Erection OHVD Base Stab (North and Middle) - Formwork & Rebar Fixing OHVD Base Stab (North and Middle) - Concrete & Curing OHVD Base Stab (North and Middle) - Hanger Wall & Scaffolding to Roof
10-T5-B5-1350 10-T5-B5-1360 10-T5-B5-1370 10-T5-B5-1380 10-T5-B5-1390 ay 4 (3 Cells) 10-T5-B4-1100 10-T5-B4-1120 10-T5-B4-1120 10-T5-B4-1130 10-T5-B4-1230 10-T5-B4-1240 10-T5-B4-1250 10-T5-B4-1260 ♦ Milestone ♦ Critical Mi	Roof - Rebar Fixing & Formwork Roof - Concrete Roof - Curing Roof - Scaffolding Dismantling Wall (South) - Waterproofing & Working Platform Wall (South) - Rebar Fixing Wall (South) - Rebar Fixing Wall (South) - Formwork Wall (South) - Concrete Wall (South) - Correte Wall (South) - Curing & Formwork Dismanting OHVD Base Slab (North and Middle) - Scaffolding Erection OHVD Base Slab (North and Middle) - Formwork & Rebar Fixing OHVD Base Slab (North and Middle) - Concrete & Curing OHVD Base Slab (North and Middle) - Hanger Wall & Scaffolding to Roof	1 12 7 4 3 2 1 1 3 14 13 2	7 0 0 0 0 0 0 0 0 0 0 0 0 0 0	06-May-17 18-May-17 23-Mar-17 A 23-Mar-17 A 26-Mar-17 A 28-Mar-17 A 29-Mar-17 A 11-Mar-17 A 26-Mar-17 A 16-Apr-17 A 18-Apr-17 A	18-May-17 25-May-17 22-Mar-17 A 25-Mar-17 A 27-Mar-17 A 28-Mar-17 A 31-Mar-17 A 25-Mar-17 A 15-Apr-17 A 17-Apr-17 A 20-Apr-17 A	-12 -4	Calendar Day Calendar Day Calendar Day Calendar Day Calendar Day Calendar Day Calendar Day Calendar Day Calendar Day Calendar Day	Wall (South) - Waterproofing & Working Platform Wall (South) - Rebar Fixing Wall (South) - Rebar Fixing Wall (South) - Formwork Wall (South) - Concrete Wall (South) - Curing & Formwork Dismanting OHVD Base Stab (North and Middle) - Scaffolding Erection OHVD Base Stab (North and Middle) - Formwork & Rebar Fixing OHVD Base Stab (North and Middle) - Concrete & Curing OHVD Base Stab (North and Middle) - Formwork & Rebar Fixing OHVD Base Stab (North and Middle) - Hanger Wall & Scaffolding to Roof Date Revision Checked Appr Rev. Programme (08-Apr
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	Rev. Flogrannie (00-Apr	
CEDD CONTRACT NO. HK/2009/02		
(D.II. Control Wanahai Burnaca at Wan Chai East (Contract 2)		
/D II - Central Wanchai Bypass at Wan Chai East (Contract 2)		
3-MONTH ROLLING PROGRAMME (dd 20-Apr-17)		
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/ ID	Activity Name		Ori Dur	Rem Dur	Scheduled/ Actual Start	Scheduled/ Actual Finish	Total Float	Calendar		April		2017 May
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S10-T5-B4-1310	OHVD Base Slab (South) - Scaff	5	8	0	18-Mar-17 A	25-Mar-17 A		Calendar Day		D Base Slab (South) - S	1.1	
0-T5-B4-1320 0-T5-B4-1330	OHVD Base Slab (South) - Form	-	7	0	26-Mar-17 A 19-Apr-17 A	18-Apr-17 A		Calendar Day				lab (South) - Formwork & Rebar Fixing e Slab (South) - Concrete & Curing
T5-B4-1330	OHVD Base Slab (South) - Conc OHVD Base Slab (South) - Hang		2	5	20-Apr-17 A	20-Apr-17 A 24-Apr-17	-466	Calendar Day Calendar Day				D Base Slab (South) - Hanger Wall & Sc
5-B4-1340 5-B4-1350	Roof - Waterproofing		6	6	25-Apr-17	30-Apr-17	-466	Calendar Day				Roof - Waterproofing, Roof - Waterpr
T5-B4-1360	Roof - Rebar Fixing & Formwork		11	11	01-May-17	11-May-17	-466	Calendar Day				Roof - Rebar Fixing &
T5-B4-1370	Roof - Concrete		1	1	12-May-17	12-May-17	-466	Calendar Day				Roof - Concrete, Roo
5-B4-1380	Roof - Curing		12	12	13-May-17	25-May-17	-466	Calendar Day				Roo
-T5-B4-1390	Roof - Scaffolding Dismantling		3	3	25-May-17	28-May-17	-221	Calendar Day				
-T5-B4-1400	Construct Roadside Barriers		5	13	10-Feb-17 A	10-Jun-17	-221	Calendar Day				
3 (3 Cells)												
0-T5-B3-1070	Wall (North) - Formwork		3	0	20-Mar-17 A	21-Mar-17 A	1	Calendar Day	Wall (North) - Formwork		
-T5-B3-1080	Wall (North) - Concrete		1	0	22-Mar-17 A	22-Mar-17 A		Calendar Day	Wall (Nor	th) - Concrete		
0-T5-B3-1090	Wall (North) - Curing & Formwork	< Dismantling	3	0	23-Mar-17 A	25-Mar-17 A		Calendar Day	Wall (North) - Curing & Form	work Dismantling	
)-T5-B3-1100	Wall (South) - Waterproofing & W	/orking Platform	4	0	20-Mar-17 A	23-Mar-17 A		Calendar Day	Wall (So	uth) - Waterproofing &	Norking Platform	
)-T5-B3-1110	Wall (South) - Rebar Fixing		3	0	24-Mar-17 A	26-Mar-17 A		Calendar Day	🛑 Wall	(South) - Rebar Fixing		
0-T5-B3-1120	Wall (South) - Formwork		3	0	27-Mar-17 A	29-Mar-17 A		Calendar Day		Wall (South) - Formwor	k	
0-T5-B3-1130	Wall (South) - Concrete		1	0	30-Mar-17 A	30-Mar-17 A		Calendar Day	0	Wall (South) - Concret	e	
)-T5-B3-1140	Wall (South) - Curing & Formwor	k Dismantling	3	0	31-Mar-17 A	02-Apr-17 A		Calendar Day	[] [Wall (\$outh) - Cur	ing&Formwork	Dismantling
-T5-B3-1230	OHVD Base Slab (North & Middle	e) - Scaffolding Erection	14	0	30-Mar-17 A	11-Apr-17 A		Calendar Day	🗖	OHVD	Base Slab (North	& Middle) - Scaffolding Erection
T5-B3-1240	OHVD Base Slab (North & Middle	e) - Formwork & Rebar Fixing	13	2	12-Apr-17 A	23-Apr-17	-469	Calendar Day	1		они	Base Slab (North & Middle) - Formwork
-T5-B3-1250	OHVD Base Slab (North & Middle	e) - Concrete & Curing	2	2	24-Apr-17	25-Apr-17	-469	Calendar Day	1		📕 ОН	VD Base Slab (North & Middle) - Concre
-T5-B3-1260	OHVD Base Slab (North & Middle	e) - Hanger Wall & Scaffolding to Roof	3	3	26-Apr-17	28-Apr-17	-465	Calendar Day	1			OHVD Base Slab (North & Middle) - Har
T5-B3-1310	OHVD Base Slab (South) - Scaffe	olding Erection	8	0	05-Apr-17 A	13-Apr-17 A		Calendar Day	[]	OHV	/D Base Slab (So	uth) - Scaffolding Érection
T5-B3-1320	OHVD Base Slab (South) - Form	work & Rebar Fixing	7	2	14-Apr-17 A	21-Apr-17	-467	Calendar Day			OHVD B	ase Slab (South) - Formwork & Rebar Fi
T5-B3-1330	OHVD Base Slab (South) - Conc	rete & Curing	2	2	24-Apr-17	25-Apr-17	-469	Calendar Day				VD Base Slab (South) - Concrete & Curi
T5-B3-1340	OHVD Base Slab (South) - Hange	er Wall & Scaffolding to Roof	3	3	26-Apr-17	28-Apr-17	-465	Calendar Day				OHVD Base Slab (South) - Hanger Wall
T5-B3-1350	Roof - Waterproofing		7	7	26-Apr-17	02-May-17	-469	Calendar Day				Roof - Waterproofing, Roof - Wate
T5-B3-1360	Roof - Rebar Fixing & Formwork		13	13	03-May-17	15-May-17	-469	Calendar Day				Roof - Rebar Fix
T5-B3-1370	Roof - Concrete		1	1	16-May-17	16-May-17	-469	Calendar Day				Roof - Concrete
5-B3-1380	Roof - Curing		12	12	17-May-17	29-May-17	-469	Calendar Day				
5-B3-1390	Roof - Scaffolding Dismantling		3	3	29-May-17	31-May-17	-212	Calendar Day				
Г5-B3-1400	Construct Roadside Barriers		5	0	21-Feb-17 A	01-Apr-17 A		Calendar Day		Construct Roadside	Barriers	
(3 Cells) 5-B2-1070	Wall (North) - Rebar Fixing		2	0	20-Mar-17 A	22-Mar-17 A	1	Calendar Day	Wall (Nor	th) - Rebar Fixing		
Г5-В2-1070 Г5-В2-1080	Wall (North) - Formwork		3	0	20-Mar-17 A 23-Mar-17 A	22-Mar-17 A 24-Mar-17 A		Calendar Day Calendar Day		orth) - Formwork		
5-B2-1000	Wall (North) - Concrete		1	0	25-Mar-17 A	24-Mar-17 A		Calendar Day		North) - Concrete		
-15-B2-1090 -T5-B2-1100	Wall (North) - Curing & Formwork	Dismantling	3	0	25-Mar-17 A 26-Mar-17 A	25-Mar-17 A 28-Mar-17 A		Calendar Day Calendar Day		/all (North) + Curing & F	ormwork Dismon	ting
T5-B2-1100 T5-B2-1110	Wall (North) - Curing & Formwork Wall (South) - Waterproofing & W		4	0	26-Mar-17 A 24-Mar-17 A	28-Mar-17 A 27-Mar-17 A		Calendar Day Calendar Day		all (South) - Waterproofi		
Т5-B2-1110 Т5-B2-1120			3	0	24-Mar-17 A 28-Mar-17 A	30-Mar-17 A		Calendar Day	- i	Wall (South) - Rebar F		
	Wall (South) - Rebar Fixing		3	0	28-Mar-17 A 31-Mar-17 A					Wall (South) - Rebar P		
Г5-B2-1130 Г5-B2-1140	Wall (South) - Formwork Wall (South) - Concrete		3	0	31-Mar-17 A 03-Apr-17 A	02-Apr-17 A 03-Apr-17 A		Calendar Day Calendar Day	i '	Wall (South) - Co	- i - i	
5-B2-1140	. ,	k Dismanting	•	0						Wall (South) - Co		work Dismantling
	Wall (South) - Curing & Formworl		3		04-Apr-17 A	06-Apr-17 A	_101	Calendar Day		vvaii (South)		D Base Slab (North & Middle) - Scaffoldi
F5-B2-1240	OHVD Base Slab (North & Middle			3	30-Mar-17 A	24-Apr-17	-481	Calendar Day	-		UHV	O Base Slab (North & Middle) - Scanodil
5-B2-1250	OHVD Base Slab (North & Middle		13	13	25-Apr-17	07-May-17	-481 -481	Calendar Day Calendar Day				OHVD Base Slab (North
T5-B2-1260	OHVD Base Slab (North & Middle			2	08-May-17	09-May-17						OHVD Base Slab (Norm
T5-B2-1270		e) - Hanger Wall & Scaffolding to Roof	3	3	10-May-17	12-May-17	-477	Calendar Day				Base Slab (South) - Scaffolding Erection,
T5-B2-1280	OHVD Base Slab (South) - Scaffe	-	8	3	06-Apr-17 A	22-Apr-17	-473	Calendar Day				OHVD Base Slab (South) - Formwork
T5-B2-1290	OHVD Base Slab (South) - Form		7		23-Apr-17	29-Apr-17	-473	Calendar Day				OHVD Base Slab (South) - Formwork
T5-B2-1300	OHVD Base Slab (South) - Conci		2	2	08-May-17	09-May-17	-481	Calendar Day				
T5-B2-1310	OHVD Base Slab (South) - Hang	er vvali & Scattolding to Root	3	3	10-May-17	12-May-17	-477	Calendar Day				OHVD Base Slab (So
T5-B2-1320	Roof - Waterproofing		7	7	10-May-17	16-May-17	-481	Calendar Day				Roof - Waterpro
T5-B2-1330	Roof - Rebar Fixing & Formwork		13	13	17-May-17	29-May-17	-481	Calendar Day				
-T5-B2-1340	Roof - Concrete		1	1	30-May-17	30-May-17	-481	Calendar Day				
-T5-B2-1350	Roof - Curing		12	12	31-May-17	12-Jun-17	-481	Calendar Day				
T5-B2-1360	Roof - Scaffolding Dismantling		3	3	12-Jun-17	14-Jun-17	-22	Calendar Day				
Milestone												Date
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Current V	Vorks											.
Critical W	orks	JOINT VENTURE	WD II - Ce	entr	al Wand	hai Bvr	oass	at Wan	Chai	East (Cor	ntract 2	2)
Remainin	g Level of Effort									-		·
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;	Scaffoldin	g to Roof,	OHVD B	ase Slab	(South) -	Hanger	Wall & Sca	folding to
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		VD Base			1	1	Ū	
			Roof, OH	VD Base	Slab (So	uth) - Ha	anger Wall	& Scaffoldi
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S10-T5-B2-1400	Construct Roadside Barriers	5	4	20-Feb-17 A	23-Apr-17	-174	Calendar Day			Construct Ro	adside Barriers	s, Construct Roa
Bay 1 (3 Cells) (W			0	00 14-1 47 4	05 Mar 47 A		Oslas das Davi	Moll (North) Waterpr	oofing 8 \			
S10-T5-B1-1050	Wall (North) - Waterproofing & Working Platform	4	0	22-Mar-17 A	25-Mar-17 A		Calendar Day	Wall (North) - Waterpr		1 1		
S10-T5-B1-1060	Wall (North) - Rebar Fixing	3	0	26-Mar-17 A	30-Mar-17 A		Calendar Day		· · ·			
S10-T5-B1-1070	Wall (North) - Formwork	3	0	31-Mar-17 A	03-Apr-17 A		Calendar Day	Wall (Nort	1 L L	1 1		
S10-T5-B1-1080	Wall (North) - Concrete	1	0	05-Apr-17 A	05-Apr-17 A	405	Calendar Day	0 Wall (N	ortn) - Cor			
S10-T5-B1-1090	Wall (North) - Curing & Formwork Dismanting	3	2	06-Apr-17 A	21-Apr-17	-485	Calendar Day		latararaa	Wall (North) - C		ork Dismantling,
S10-T5-B1-1100	Wall (South) - Waterproofing & Working Platform	4	0	27-Mar-17 A	30-Mar-17 A		Calendar Day	Wall (South) - V			-m	
S10-T5-B1-1110	Wall (South) - Rebar Fixing	3	0	31-Mar-17 A	02-Apr-17 A		Calendar Day	Wall (\$outh				
S10-T5-B1-1120	Wall (South) - Formwork	2	0	03-Apr-17 A	04-Apr-17 A		Calendar Day	Wall (So	11	1 1		
S10-T5-B1-1130	Wall (South) - Concrete	1	0	05-Apr-17 A	05-Apr-17 A		Calendar Day	🛛 Wall (S	i i	i i i		
S10-T5-B1-1140	Wall (South) - Curing & Formwork Dismanting	3	0	06-Apr-17 A	08-Apr-17 A	405	Calendar Day	wa	i (South)	Curing & Formwork		
S10-T5-B1-1230	OHVD Base Slab (North & Middle) - Scaffolding Erection	13	5	06-Apr-17 A	26-Apr-17	-485	Calendar Day					& Middle) - Scat
S10-T5-B1-1240	OHVD Base Slab (North & Middle) - Formwork & Rebar Fixing	13	13	24-Apr-17	06-May-17	-485	Calendar Day					e Slab (North &
S10-T5-B1-1250	OHVD Base Slab (North & Middle) - Concrete & Curing	2	2	07-May-17	08-May-17	-485	Calendar Day				1 1	Base Slab (North
S10-T5-B1-1260	OHVD Base Slab (North & Middle) - Hanger Wall & Scaffolding to Roof	4	4	09-May-17	12-May-17	-480	Calendar Day				i i	IVD Base Slab (
S10-T5-B1-1310	OHVD Base Slab (South) - Scaffolding Erection	12	6	06-Apr-17 A	25-Apr-17	-483	Calendar Day			OHVD Bas		- Scaffolding Ere
S10-T5-B1-1320	OHVD Base Slab (South) - Formwork & Rebar Fixing	13	13	22-Apr-17	04-May-17	-483	Calendar Day			: :		Slab (South) - Fo
S10-T5-B1-1330	OHVD Base Slab (South) - Concrete & Curing	2	2	05-May-17	06-May-17	-483	Calendar Day					e Slab (South) -
S10-T5-B1-1340	OHVD Base Slab (South) - Hanger Wall & Scaffolding to Roof	4	4	07-May-17	10-May-17	-478	Calendar Day				OHVI	D Base Slab (Sd
S10-T5-B1-1350	Roof - Waterproofing	9	9	09-May-17	17-May-17	-485	Calendar Day					Roof - Wate
S10-T5-B1-1360	Roof - Rebar Fixing & Formwork	16	16	18-May-17	02-Jun-17	-485	Calendar Day					;;
S10-T5-B1-1370	Roof - Concrete	1	1	03-Jun-17	03-Jun-17	-485	Calendar Day					
S10-T5-B1-1380	Roof - Curing	12	12	04-Jun-17	15-Jun-17	-485	Calendar Day					
S10-T5-B1-1390	Roof - Scaffolding Dismantling	5	5	15-Jun-17	20-Jun-17	-34	Calendar Day					
S10-T5-B1-1400	Construct Roadside Barriers	7	0	22-Mar-17 A	14-Apr-17 A		Calendar Day		Constr	uct Roadside Barrie	rs	
Outstanding Wor	ks											
S10-T5-OUT-1020	TP5 - Carry out defects rectification works	30	30	28-May-17	27-Jun-17	-34	Calendar Day					
Section 11 of the	e Works - Remainder of Works											
Marine Works at	WCR3											
S11-R3-2100	Mass Concrete Coping for Blockwork Seawall next to Type 2X caisson unit	18	18	16-Jun-17	04-Jul-17	-76	Calendar Day					
Demolition Works												
S11-DEMO-1310		12	12	04-Jul-17	17-Jul-17	-50	HK Working Dav					
S11-DEMO-1310	Demolition of abandoned seawall down to +1.5mPD - at the south of Tunnel Portion 5	12	12	04-Jul-17	17-Jul-17	-50	HK Working Day					
S11-DEMO-1310 Formation and Ha	Demolition of abandoned seawall down to +1.5mPD - at the south of Tunnel Portion 5 and Landscaping Works											
S11-DEMO-1310 Formation and Ha S11-FM-5000A	Demolition of abandoned seawall down to +1.5mPD - at the south of Tunnel Portion 5	12 41	12 41	04-Jul-17 16-Jun-17	17-Jul-17 31-Jul-17		HK Working Day HK Working Day					
S11-DEMO-1310 Formation and Ha S11-FM-5000A Misc. Works	Demolition of abandoned seawall down to +1.5mPD - at the south of Tunnel Portion 5 ard Landscaping Works Tunnel Portion 5 Backfilling (Sorted Public Fill or atemative filling material 45,000m3; 1100m3/d)											
S11-DEMO-1310 Formation and Ha S11-FM-5000A Misc. Works Removal of Tempo	Demolition of abandoned seawall down to +1.5mPD - at the south of Tunnel Portion 5 ard Landscaping Works Tunnel Portion 5 Backfilling (Sorted Public Fill or atemative filling material 45,000m3; 1100m3/d) Tunnel Portion 5 Backfilling (Sorted Public Fill or atemative filling material 45,000m3; 1100m3/d) Tunnel Portion 5 Backfilling (Sorted Public Fill or atemative filling material 45,000m3; 1100m3/d) Tunnel Portion 5 Backfilling (Sorted Public Fill or atemative filling material 45,000m3; 1100m3/d) Tunnel Portion 5 Backfilling (Sorted Public Fill or atemative filling material 45,000m3; 1100m3/d) Tunnel Portion 5 Backfilling (Sorted Public Fill or atemative filling material 45,000m3; 1100m3/d)	41	41	16-Jun-17	31-Jul-17		HK Working Day	Works within Temp D-Wall-	Demolish	top of Temp D-Wall	at Bay 1 and Ba	ay 2 (49 425mPF
S11-DEMO-1310 Formation and Ha S11-FM-5000A Misc. Works Removal of Tempo S11-RTC-3068	Demolition of abandoned seawall down to +1.5mPD - at the south of Tunnel Portion 5 ard Landscaping Works Tunnel Portion 5 Backfilling (Sorted Public Fill or atemative filling material 45,000m3; 1100m3/d) orary Reclamation CH 3710 to CH 3790 (East) Works within Temp D-Wall - Demolish top of Temp D-Wall at Bay 1 and Bay 2 (+2.425mPD) of HHR bridge	41	41	16-Jun-17 16-Mar-17 A	31-Jul-17 21-Mar-17 A		HK Working Day	Works within:Temp D-Wall -				
S11-DEMO-1310 Formation and Ha S11-FM-5000A Misc. Works Removal of Tempo S11-RTC-3068 S11-RTC-3069	Demolition of abandoned seawall down to +1.5mPD - at the south of Tunnel Portion 5 ard Landscaping Works Tunnel Portion 5 Backfiling (Sorted Public Fill or atemative filling material 45,000m3; 1100m3/d) orary Reclamation CH 3710 to CH 3790 (East) Works within Temp D-Wall - Demolish top of Temp D-Wall at Bay 1 and Bay 2 (+2.425mPD) of HHR bridge Works within Temp D-Wall - Demolish top of Temp D-Wall at Bay 3 (+0.925mPD) of HHR bridge	41 6 7	41 0 0	16-Jun-17 16-Mar-17 A 18-Mar-17 A	31-Jul-17 21-Mar-17 A 22-Mar-17 A		HK Working Day HK Working Day HK Working Day	Works within Temp D-Wall - Works within Temp D-Wall	- Demolisi	n top of Temp D-Wa	ll at Bay 3 (+0.9	25mPD) of HHR
S11-DEMO-1310 Formation and Ha S11-FM-5000A Misc. Works Removal of Tempo S11-RTC-3068 S11-RTC-3069 S11-RTC-3070	Demolition of abandoned seawall down to +1.5mPD - at the south of Tunnel Portion 5 ard Landscaping Works Tunnel Portion 5 Backfiling (Sorted Public Fill or atemative filling material 45,000m3; 1100m3/d) Demolition of Backfiling (Sorted Public Fill or atemative filling material 45,000m3; 1100m3/d) Demolition of Backfiling (Sorted Public Fill or atemative filling material 45,000m3; 1100m3/d) Demolition of Backfilling (Sorted Public Fill or atemative filling material 45,000m3; 1100m3/d) Demolition of Demolitic Fill or atemative filling material 45,000m3; 1100m3/d) Demolition of Demolitic Fill or atemative filling material 45,000m3; 1100m3/d) Demolition of Demolitic Fill or atemative filling material 45,000m3; 1100m3/d) Demolition of Demolitic Fill or atemative filling material 45,000m3; 1100m3/d) Demolition of Demolitic Fill or atemative filling material 45,000m3; 1100m3/d) Demolition of Demolitic Fill or atemative filling material 45,000m3; 1100m3/d) Demolition of Demolitic Fill or atemative filling material 45,000m3; 1100m3/d) Works within Temp D-Wall - Demolitic hop of Temp D-Wall at Bay 1 and Bay 2 (+2.425mPD) of HHR bridge Works within Temp D-Wall - Demolitic hop of Temp D-Wall at Bay 3 (+0.925mPD) of HHR bridge Works within Temp D-Wall - Backfill with Sorted Public Fill from +1.5mPD to +2.75mPD to formation level of HHR brid	41	41	16-Jun-17 16-Mar-17 A	31-Jul-17 21-Mar-17 A		HK Working Day	1 1 1	- Demolisi		ll at Bay 3 (+0.9	25mPD) of HHR
S11-DEMO-1310 Formation and Ha S11-FM-5000A Misc. Works Removal of Tempo S11-RTC-3068 S11-RTC-3069 S11-RTC-3070 Removal of Tempo	Demolition of abandoned seawall down to +1.5mPD - at the south of Tunnel Portion 5 ard Landscaping Works Tunnel Portion 5 Backfilling (Sorted Public Fill or atemative filling material 45,000m3; 1100m3/d) orary Reclamation CH 3710 to CH 3790 (East) Works within Temp D-Wall - Demolish top of Temp D-Wall at Bay 1 and Bay 2 (+2.425mPD) of HHR bridge Works within Temp D-Wall - Demolish top of Temp D-Wall at Bay 3 (+0.925mPD) of HHR bridge Works within Temp D-Wall - Demolish top of Temp D-Wall at Bay 3 (+0.925mPD) of ormation level of HHR bridge Works within Temp D-Wall - Backfill with Sorted Public Fill from +1.5mPD to +2.75mPD to formation level of HHR bridge vary Reclamation CH 3630 to CH 3710 (West)	41 6 7 2	41 0 0 0	16-Jun-17 16-Mar-17 A 18-Mar-17 A 24-Mar-17 A	31-Jul-17 21-Mar-17 A 22-Mar-17 A 19-Apr-17 A	-438	HK Working Day HK Working Day HK Working Day HK Working Day	1 1 1	- Demolisi	n top of Temp D-Wa Works within Temp I	ll at Bay 3 (+0.9 D-Wall - Backfil	25mPD) of HHR I with Sorted Pub
S11-DEMO-1310 Formation and Ha S11-FM-5000A Misc. Works Removal of Tempo S11-RTC-3068 S11-RTC-3069 S11-RTC-3070 Removal of Tempo S11-RTC-3250	Demolition of abandoned seawall down to +1.5mPD - at the south of Tunnel Portion 5 ard Landscaping Works Tunnel Portion 5 Backfiling (Sorted Public Fill or atemative filling material 45,000m3; 1100m3/d) Tunnel Portion 5 Backfiling (Sorted Public Fill or atemative filling material 45,000m3; 1100m3/d) Works within Temp D. Wall - Demolish top of Temp D. Wall at Bay 1 and Bay 2 (+2.425mPD) of HHR bridge Works within Temp D. Wall - Demolish top of Temp D. Wall at Bay 3 (+0.925mPD) of HHR bridge Works within Temp D. Wall - Demolish top of Temp D. Wall at Bay 3 (+0.925mPD) of HHR bridge Works within Temp D. Wall - Demolish top of Temp D. Wall at Bay 3 (+0.925mPD) of HHR bridge Works within Temp D. Wall - Demolish top of Temp D. Wall at Bay 3 (+0.925mPD) of HHR bridge Works within Temp D. Wall - Demolish top of Temp D. Wall at Bay 3 (+0.925mPD) of HHR bridge Works within Temp D. Wall - Demolish top of Temp D. Wall at Bay 3 (+0.925mPD) of HHR bridge Works within Temp D. Wall - Demolish top of Temp D. Wall at Bay 3 (+0.925mPD) to formation level of HHR bridge Works within Temp D. Wall - Construct temporary walls from -1.5mPD to -4.0mPD 152 nos. (15 nos./day)	41 6 7 2 28	41 0 0 0 8	16-Jun-17 16-Mar-17 A 18-Mar-17 A 24-Mar-17 A 06-Jan-17 A	31-Jul-17 21-Mar-17 A 22-Mar-17 A 19-Apr-17 A 27-Apr-17	-438	HK Working Day HK Working Day HK Working Day HK Working Day Calendar Day	1 1 1	- Demolist	n top of Temp D-Wa Works within Temp Works v	ll at Bay 3 (+0.9 D-Wall - Backfil within Temp D-V	25mPD) of HHR I with Sorted Pub Vall - Construct
S11-DEMO-1310 Formation and Ha S11-FM-5000A Misc. Works Removal of Tempo S11-RTC-3068 S11-RTC-3069 S11-RTC-3070 Removal of Tempo S11-RTC-3250 S11-RTC-3252	Demolition of abandoned seawall down to +1.5mPD - at the south of Tunnel Portion 5 ard Landscaping Works Tunnel Portion 5 Backfiling (Sorted Public Fill or atemative filling material 45,000m3; 1100m3/d) Tunnel Portion 5 Backfiling (Sorted Public Fill or atemative filling material 45,000m3; 1100m3/d) Vertice of the seawall down to +1.5mPD - at the south of Tunnel Portion 5 Vertice of the seawall down to +1.5mPD - at the south of Tunnel Portion 5 Vertice of the seawall down to possible of the seawall down at the seawall	41 6 7 2 28 15	41 0 0 0 0 8 8 12	16-Jun-17 16-Mar-17 A 18-Mar-17 A 24-Mar-17 A 06-Jan-17 A 06-Jan-17 A	31-Jul-17 21-Mar-17 A 22-Mar-17 A 19-Apr-17 A 27-Apr-17 09-May-17	-438 -585 -560	HK Working Day HK Working Day HK Working Day HK Working Day Calendar Day Calendar Day	Works within Temp D-Wall	- Demolist	n top of Temp D-Wa Works within Temp Works v	II at Bay 3 (+0.9 D-Wall - Backfil within Temp D-V	25mPD) of HHR I with Sorted Put Vall - Construct
S11-DEMO-1310 Formation and Ha S11-FM-5000A Misc. Works Removal of Tempo S11-RTC-3068 S11-RTC-3069 S11-RTC-3070 Removal of Tempo S11-RTC-3250 S11-RTC-3252 S11-RTC-3256	Demolition of abandoned seawall down to +1.5mPD - at the south of Tunnel Portion 5 ard Landscaping Works Tunnel Portion 5 Backfilling (Sorted Public Fill or atemative filling material 45,000m3; 1100m3/d) Vertice Portion 5 Backfilling (Sorted Public Fill or atemative filling material 45,000m3; 1100m3/d) Vertice Portion 5 Backfilling (Sorted Public Fill or atemative filling material 45,000m3; 1100m3/d) Vertice Portion 5 Backfilling (Sorted Public Fill or atemative filling material 45,000m3; 1100m3/d) Vertice Portion 5 Backfilling (Sorted Public Fill or atemative filling material 45,000m3; 1100m3/d) Vertice Portion 5 Backfill on CH 3710 to CH 3790 (East) Works within Temp D-Wall - Demolish top of Temp D-Wall at Bay 1 and Bay 2 (+2.425mPD) of HHR bridge Works within Temp D-Wall - Demolish top of Temp D-Wall at Bay 3 (+0.925mPD) of HHR bridge Vertice Portion 5 Backfill with Sorted Public Fill from +1.5mPD to +2.75mPD to formation level of HHR bridge Vertice Portion CH 3630 to CH 3710 (West) Works within Temp D-Wall - Construct temporary walls from -7.0mPD to -4.0mPD 152 nos. (15 nos./day) Works within Temp D-Wall - Place Type A rockfill and Filter to -7.0mPD to -4.0mPD (400m3@300m3/d) Works within Temp D-Wall - Place Sorted Public Fill from -7.0mPD to -3.0mPD with 35 deg fill slope (4,150m3@200m3/d) Works within Temp D-Wall - Place Sorted Public Fill from -7.0mPD to	41 6 7 2 28 15 53	41 0 0 0 0 8 8 12 45	16-Jun-17 16-Mar-17 A 18-Mar-17 A 24-Mar-17 A 06-Jan-17 A 06-Mar-17 A 08-Apr-17 A	31-Jul-17 21-Mar-17 A 22-Mar-17 A 19-Apr-17 A 27-Apr-17 09-May-17 07-Jun-17	-438 -585 -560 -524	HK Working Day HK Working Day HK Working Day HK Working Day Calendar Day Calendar Day HK Working Day	Works within Temp D-Wall	- Demolist	n top of Temp D-Wa Works within Temp Works v	II at Bay 3 (+0.9 D-Wall - Backfil within Temp D-V	25mPD) of HHR I with Sorted Pub Vall - Construct
S11-DEMO-1310 Formation and Ha S11-FM-5000A Misc. Works Removal of Tempo S11-RTC-3068 S11-RTC-3069 S11-RTC-3070 Removal of Tempo S11-RTC-3250 S11-RTC-3252 S11-RTC-3256 S11-RTC-3257	Demolition of abandoned seawall down to +1.5mPD - at the south of Tunnel Portion 5 ard Landscaping Works Tunnel Portion 5 Backfilling (Sorted Public Fill or atemative filling material 45,000m3; 1100m3/d) variable Variable Works within Temp D-Wall - Demolish top of Temp D-Wall at Bay 1 and Bay 2 (+2.425mPD) of HHR bridge Works within Temp D-Wall - Demolish top of Temp D-Wall at Bay 3 (+0.925mPD) of HHR bridge Works within Temp D-Wall - Demolish top of Temp D-Wall at Bay 3 (+0.925mPD) of HHR bridge Works within Temp D-Wall - Demolish top of Temp D-Wall at Bay 3 (+0.925mPD) of HHR bridge Works within Temp D-Wall - Demolish top of Temp D-Wall at Bay 3 (+0.925mPD) of HHR bridge Works within Temp D-Wall - Demolish top of Temp D-Wall at Bay 3 (+0.925mPD) of HHR bridge Works within Temp D-Wall - Demolish top of Temp D-Wall at Bay 3 (+0.925mPD) to +12.75mPD to formation level of HHR bridge Works within Temp D-Wall - Demolish top of Temp D-Wall at Bay 3 (+0.925mPD) to +2.75mPD to formation level of HHR bridge Works within Temp D-Wall - Construct temporary walls from -7.0mPD to +2.0mPD to 5.0mPD to formation level of HHR bridge Works within Temp D-Wall - Place Type A rockfill and Filter to -7.0mPD to -4.0mPD (400m3@300m3/d) Works within Temp D-Wall - Place Sorted Public Fill from -7.0mPD to -3.0mPD with 35 deg fill slope (4,150m3@200m3/d) Works within Temp D-Wall - Remove ELS S1 Grid 0 - Grid 7	41 6 7 2 28 15 53 14	41 0 0 0 0 8 8 12 45 14	16-Jun-17 16-Mar-17 A 18-Mar-17 A 24-Mar-17 A 06-Jan-17 A 06-Mar-17 A 08-Apr-17 A 08-Jun-17	31-Jul-17 21-Mar-17 A 22-Mar-17 A 19-Apr-17 A 27-Apr-17 09-May-17 07-Jun-17 22-Jun-17	-438 -585 -585 -560 -524 -524	HK Working Day HK Working Day HK Working Day HK Working Day Calendar Day Calendar Day HK Working Day HK Working Day	Works within Temp D-Wall	- Demolist	n top of Temp D-Wa Works within Temp Works v	II at Bay 3 (+0.9 D-Wall - Backfil within Temp D-V	25mPD) of HHR I with Sorted Put Vall - Construct
S11-DEMO-1310 Formation and Ha S11-FM-5000A Misc. Works Removal of Tempo S11-RTC-3068 S11-RTC-3069 S11-RTC-3070 Removal of Tempo S11-RTC-3250 S11-RTC-3256 S11-RTC-3257 S11-RTC-3258	Demolition of abandoned seawall down to +1.5mPD - at the south of Tunnel Portion 5 Clandscaping Works Tunnel Portion 5 Backfilling (Sorted Public Fill or atemative filling material 45,000m3; 1100m3/d) Variation CH 3710 to CH 3790 (East) Works within Temp D-Wall - Demolish top of Temp D-Wall at Bay 1 and Bay 2 (+2.425mPD) of HHR bridge Works within Temp D-Wall - Demolish top of Temp D-Wall at Bay 3 (+0.925mPD) of HHR bridge Works within Temp D-Wall - Demolish top of Temp D-Wall at Bay 3 (+0.925mPD) of HHR bridge Works within Temp D-Wall - Demolish top of Temp D-Wall at Bay 3 (+0.925mPD) of HHR bridge Works within Temp D-Wall - Demolish top of Temp D-Wall at Bay 3 (+0.925mPD) of HHR bridge Works within Temp D-Wall - Demolish top of Temp D-Wall at Bay 3 (+0.925mPD) of HHR bridge Works within Temp D-Wall - Demolish top of Temp D-Wall at Bay 3 (+0.925mPD) of HHR bridge Works within Temp D-Wall - Demolish top of Temp D-Wall at Bay 3 (+0.925mPD) to +1.5mPD to +2.75mPD to formation level of HHR bridge Works within Temp D-Wall - Demolish top of Temp D-Wall at Bay 3 (+0.925mPD) to +1.5mPD to +2.75mPD to formation level of HHR bridge Works within Temp D-Wall - Demolish top of Temp D-Wall at Bay 3 (+0.925mPD) to +1.5mPD to +2.75mPD to formation level of HHR bridge Works within Temp D-Wall - Construct temporary walls from -7.0mPD to +2.0mPD to +2.75mPD to formation level of HHR bridge Works within Temp D-Wall - Place Sorted Public Fill from -7.0mPD to -3.0mPD with 35 deg fill slope (4,150m3@20	41 6 7 2 28 15 53 14 14	41 0 0 0 0 8 12 45 14 14	16-Jun-17 16-Mar-17 A 18-Mar-17 A 24-Mar-17 A 24-Mar-17 A 06-Jan-17 A 06-Mar-17 A 08-Apr-17 A 08-Jun-17 22-Jun-17	31-Jul-17 21-Mar-17 A 22-Mar-17 A 19-Apr-17 A 27-Apr-17 09-May-17 07-Jun-17 22-Jun-17 08-Jul-17	-438 -585 -560 -524	HK Working Day HK Working Day HK Working Day HK Working Day Calendar Day Calendar Day HK Working Day HK Working Day	Works within Temp D Wall	- Demolis	n top of Temp D-Wa Works within Temp I Works v	II at Bay 3 (+0.9 D-Wall - Backfill within Temp D-V	25mPD) of HHR I with Sorted Put Vall - Construct within Temp D-V
S11-DEMO-1310 Formation and Hz S11-FM-5000A Misc. Works Removal of Tempo S11-RTC-3068 S11-RTC-3069 S11-RTC-3070 Removal of Tempo S11-RTC-3250 S11-RTC-3256 S11-RTC-3258 S11-RTC-3258 S11-RTC-3435	Demolition of abandoned seawall down to +1.5mPD - at the south of Tunnel Portion 5 ard Landscaping Works Tunnel Portion 5 Backfiling (Sorted Public Fill or atemative filling material 45,000m3; 1100m3/d) arr Portion 5 Backfiling (Sorted Public Fill or atemative filling material 45,000m3; 1100m3/d) works within Temp D-Wall - Demolish top of Temp D-Wall at Bay 1 and Bay 2 (+2.425mPD) of HHR bridge Works within Temp D-Wall - Demolish top of Temp D-Wall at Bay 3 (+0.925mPD) of HHR bridge Works within Temp D-Wall - Demolish top of Temp D-Wall at Bay 3 (+0.925mPD) of HHR bridge Works within Temp D-Wall - Demolish top of Temp D-Wall at Bay 3 (+0.925mPD) of HHR bridge Works within Temp D-Wall - Demolish top of Temp D-Wall at Bay 3 (+0.925mPD) of HHR bridge Works within Temp D-Wall - Demolish top of Temp D-Wall at Bay 3 (+0.925mPD) of HHR bridge Works within Temp D-Wall - Demolish top of Temp D-Wall at Bay 3 (+0.925mPD) of HHR bridge Works within Temp D-Wall - Demolish top of Temp D-Wall at Bay 3 (+0.925mPD) of HHR bridge Works within Temp D-Wall - Demolish top of Temp D-Wall at Bay 3 (+0.925mPD) to +1.5mPD to +2.75mPD to formation level of HHR bridge Works within Temp D-Wall - Demolish top of Temp D-Wall at Bay 3 (+0.925mPD) to +1.5mPD to +2.75mPD to formation level of HHR bridge Works within Temp D-Wall - Construct temporary walls from -7.0mPD to +4.0mPD 152 nos. (15 nos./day) Works within Temp D-Wall - Place Sorted Public Fill from -7.0mPD to -4.0mPD (400m3@300m3/d) <t< td=""><td>41 6 7 2 28 15 53 14</td><td>41 0 0 0 0 8 8 12 45 14</td><td>16-Jun-17 16-Mar-17 A 18-Mar-17 A 24-Mar-17 A 06-Jan-17 A 06-Mar-17 A 08-Apr-17 A 08-Jun-17</td><td>31-Jul-17 21-Mar-17 A 22-Mar-17 A 19-Apr-17 A 27-Apr-17 09-May-17 07-Jun-17 22-Jun-17</td><td>-438 -585 -585 -560 -524 -524</td><td>HK Working Day HK Working Day HK Working Day HK Working Day Calendar Day Calendar Day HK Working Day HK Working Day</td><td>Works within Temp D Wall</td><td>- Demolis</td><td>n top of Temp D-Wa Works within Temp Works v</td><td>II at Bay 3 (+0.9 D-Wall - Backfill within Temp D-V</td><td>25mPD) of HHR I with Sorted Pub Vall - Construct within Temp D-V</td></t<>	41 6 7 2 28 15 53 14	41 0 0 0 0 8 8 12 45 14	16-Jun-17 16-Mar-17 A 18-Mar-17 A 24-Mar-17 A 06-Jan-17 A 06-Mar-17 A 08-Apr-17 A 08-Jun-17	31-Jul-17 21-Mar-17 A 22-Mar-17 A 19-Apr-17 A 27-Apr-17 09-May-17 07-Jun-17 22-Jun-17	-438 -585 -585 -560 -524 -524	HK Working Day HK Working Day HK Working Day HK Working Day Calendar Day Calendar Day HK Working Day HK Working Day	Works within Temp D Wall	- Demolis	n top of Temp D-Wa Works within Temp Works v	II at Bay 3 (+0.9 D-Wall - Backfill within Temp D-V	25mPD) of HHR I with Sorted Pub Vall - Construct within Temp D-V
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·	Current Works	CHUN WO - CRGL	CEDD CONTRACT NO. HK/2009/02		
	Critical Works	JOINT VENTURE	WD II - Central Wanchai Bypass at Wan Chai East (Contract 2)		
					+
	Remaining Level of Effort		3-MONTH ROLLING PROGRAMME (dd 20-Apr-17)		<u> </u>

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S11-HH-4016	Reinstatement of HHR Flyover - Erect falsework and formwork for the walls of west abutment	4	4	26-Apr-17	02-May-17	-605	HK Working Day	20 02 09 10		statement of HHR Flyover -
S11-HH-4017	Reinstatement of HHR Flyover - Fix Re-bars for the walls of west abuttment	3	3	27-Apr-17	02-May-17	-587	HK Working Day		i i i	statement of HHR Flyover -
S11-HH-4018	Reinstatement of HHR Flyover - Concreting for the walls of west abutment	1	1	02-May-17	04-May-17	-587	HK Working Day			einstatement of HHR Flyove
S11-HH-4019	Reinstatement of HHR Flyover - Formwork stripping for the walls of west abutment	1	1	04-May-17	04-May-17 04-May-17	-587	HK Working Day			Reinstatement of HHR Flyove
	Ivover - Bay 2 (Middle) CH 3732-3747	<u> </u>	<u> </u>	04-1May-17	04-111ay-11	-307	TIK WORKING Day			
S11-HH-5039	Reinstatement of HHR Flyover - Lay blinding layer for the bay 2 of HHR	1	1	20-Apr-17	20-Apr-17	-606	HK Working Day		Reinstatement of Hi	IR Flyover - Lay blinding laye
S11-HH-5048	Reinstatement of HHR Flyover - Erect fmk for the base slab of bay 2 of HHR	5	5	29-Apr-17	06-May-17	-605	HK Working Day			Reinstatement of HHR Flyc
S11-HH-5049		3	3	· ·	-			·····		Reinstatement of HHR Flyc
	Reinstatement of HHR Flyover - Fix Re-bars for the base slab of bay 2 of HHR Reinstatement of HHR Flyover - Concreting for the base slab of bay 2 of HHR			04-May-17	06-May-17	-605	HK Working Day			Reinstatement of HHR F
S11-HH-5050		1	1	06-May-17	08-May-17	-605	HK Working Day			Reinstatement of H
S11-HH-5071	Reinstatement of HHR Flyover - Erect falsework and formwork for bay 2 of HHR	4	4	08-May-17	11-May-17	-605	<u> </u>			Reinstatement of H
S11-HH-5072	Reinstatement of HHR Flyover - Fix Re-bars for the walls of bay 2 of HHR	3	3	09-May-17	11-May-17	-605	HK Working Day			
S11-HH-5073	Reinstatement of HHR Flyover - Concreting for the walls of bay 2 of HHR	1	1	11-May-17	12-May-17	-605	HK Working Day	····		Reinstatement of F
S11-HH-5075	Reinstatement of HHR Flyover - Formwork stripping for the walls of bay 2 of HHR	2	2	13-May-17	16-May-17	-605	HK Working Day			i i
S11-HH-5077	Reinstatement of HHR Flyover - Filling inside structure and install sub-soil drain	5	5	16-May-17	20-May-17	-605	HK Working Day			Reinstat
S11-HH-5080	Reinstatement of HHR Flyover - Lay blinding layer for the transition slab	1	1	20-May-17	20-May-17	-605	HK Working Day			Reinsta
S11-HH-5085	Reinstatement of HHR Flyover - Erect formwork for the transition slab	2	2	20-May-17	23-May-17	-605	HK Working Day			Reir
S11-HH-5086	Reinstatement of HHR Flyover - Fix Re-bars for the transition slab	2	2	22-May-17	24-May-17	-605	HK Working Day			📕 Re
S11-HH-5087	Reinstatement of HHR Flyover - Concreting for the transition slab	1	1	24-May-17	25-May-17	-605	HK Working Day			🔳 R
Hung Hing Road F	lyover - Bay 3 (East Side) CH 3747-3770									
S11-HH-5140	Reinstatement of HHR Flyover - Lay blinding layer for the east abutment	1	1	20-Apr-17	20-Apr-17	-606	HK Working Day		, Reinstatement of HH	IR Flyover - Lay blinding laye
S11-HH-5159	Reinstatement of HHR Flyover - Erect fmk for the base slab of east abutment	7	7	20-Apr-17	28-Apr-17	-606	HK Working Day		Reinstater	ment of HHR Flyover - Erect
S11-HH-5160	Reinstatement of HHR Flyover - Fix Re-bars for the base slab of east abutment	5	5	22-Apr-17	28-Apr-17	-606	HK Working Day		Reinstater	ment of HHR Flyover - Fix R
S11-HH-5161	Reinstatement of HHR Flyover - Concreting for the base slab of east abutment	1	1	28-Apr-17	28-Apr-17	-606	HK Working Day		Reinstate	ment of HHR Flyover - Conc
S11-HH-5172	Reinstatement of HHR Flyover - Erect falsework and formwork for the walls of east abutment	8	8	28-Apr-17	09-May-17	-606	HK Working Day			Reinstatement of HHR
S11-HH-5173	Reinstatement of HHR Flyover - Fix Re-bars for the walls of east abutment	6	6	02-May-17	09-May-17	-606	HK Working Day			Reinstatement of HHR
S11-HH-5174	Reinstatement of HHR Flyover - Concreting for the walls of east abutment	1	1	09-May-17	10-May-17	-606	HK Working Day			Reinstatement of HH
S11-HH-5176	Reinstatement of HHR Flyover - Formwork stripping for the walls of east abutment	2	2	10-May-17	12-May-17	-606	HK Working Day			Reinstatement of H
Hung Hing Road F	Ivover - Deck Construction			,	,		<u> </u>			
S11-HH-4027	Reinstatement of HHR Flyover - Erect falsework and fmk for the bridge decking	10	10	12-May-17	23-May-17	-606	HK Working Day			Reir
S11-HH-4032	Reinstatement of HHR Flyover - Fix Re-bars for the bridge decking	8	8	17-May-17	25-May-17	-606	HK Working Day			P
S11-HH-4037	Reinstatement of HHR Flyover - Concreting for the bridge decking	1	1	25-May-17	26-May-17	-606	HK Working Day			
S11-HH-4038	Reinstatement of HHR Flyover - Curing for the bridge decking	3	3	26-May-17	29-May-17	-672	Calendar Day			-
S11-HH-4047	Reinstatement of HHR Flyover - Dismantle falsework and fmk for the bridge decking	3	3	26-May-17	29-May-17	-606	HK Working Day			
	Ivoxer - Traffic Diversion and Road Furniture			20 may 11	20 110 11	000	rint from any Bay			
S11-HH-4052	Reinstatement of HHR Flyover - Cover up all utilities	4	4	29-May-17	02-Jun-17	-672	Calendar Day			
	Reinstatement of HHR Elvoyer - Lay drainage works and corss road ducts for the bridge	4	4	05-May-17		-653	Calendar Dav		· · · · ·	Reinstatement of HHR F
S11-HH-4055	Reinstatement of HHR Flyover - Lay drainage works and corss road ducts for the bridge	4	4	05-May-17	08-May-17	-653 -653	Calendar Day		-	
S11-HH-4055 S11-HH-4056	Reinstatement of HHR Flyover - Place sub-base for the bridge	3	3	08-May-17	08-May-17 10-May-17	-653	Calendar Day			Reinstatement of HH
S11-HH-4055 S11-HH-4056 S11-HH-4057	Reinstatement of HHR Flyover - Place sub-base for the bridge Reinstatement of HHR Flyover - Lay asphalt and road markings	3	3 3	08-May-17 09-May-17	08-May-17 10-May-17 11-May-17	-653 -653	Calendar Day Calendar Day			Reinstatement of HH
S11-HH-4055 S11-HH-4056 S11-HH-4057 S11-HH-4059	Reinstatement of HHR Flyover - Place sub-base for the bridge Reinstatement of HHR Flyover - Lay asphalt and road markings Reinstatement of HHR Flyover - Install Road Furnitures for the bridge	3 3 4	3 3 4	08-May-17 09-May-17 27-May-17	08-May-17 10-May-17 11-May-17 30-May-17	-653 -653 -671	Calendar Day Calendar Day Calendar Day			Reinstatement of HH
S11-HH-4055 S11-HH-4056 S11-HH-4057 S11-HH-4059 S11-HH-4063	Reinstatement of HHR Flyover - Place sub-base for the bridge Reinstatement of HHR Flyover - Lay asphalt and road markings Reinstatement of HHR Flyover - Install Road Furnitures for the bridge Reinstatement of HHR Flyover - Final Inspection of bridge and carry out traffic diversion	3 3 4 2	3 3 4 2	08-May-17 09-May-17 27-May-17 31-May-17	08-May-17 10-May-17 11-May-17	-653 -653 -671 -672	Calendar Day Calendar Day Calendar Day Calendar Day		•	Reinstatement of HH
S11-HH-4055 S11-HH-4056 S11-HH-4057 S11-HH-4059 S11-HH-4063 S11-HH-4064	Reinstatement of HHR Flyover - Place sub-base for the bridge Reinstatement of HHR Flyover - Lay asphalt and road markings Reinstatement of HHR Flyover - Install Road Furnitures for the bridge Reinstatement of HHR Flyover - Final Inspection of bridge and carry out traffic diversion Reinstatement of HHR Flyover - Traffic Diversion to reinstated bridge	3 3 4 2 0	3 3 4 2 0	08-May-17 09-May-17 27-May-17 31-May-17 02-Jun-17	08-May-17 10-May-17 11-May-17 30-May-17 02-Jun-17	-653 -653 -671 -672 -672	Calendar Day Calendar Day Calendar Day Calendar Day Calendar Day			Reinstatement of HH
S11-HH-4055 S11-HH-4056 S11-HH-4057 S11-HH-4059 S11-HH-4063 S11-HH-4064 S11-HH-4066	Reinstatement of HHR Flyover - Place sub-base for the bridge Reinstatement of HHR Flyover - Lay asphalt and road markings Reinstatement of HHR Flyover - Install Road Furnitures for the bridge Reinstatement of HHR Flyover - Install Road Furnitures for the bridge Reinstatement of HHR Flyover - Final Inspection of bridge and carry out traffic diversion Reinstatement of HHR Flyover - Traffic Diversion to reinstated bridge Reinstatement of HHR Flyover - Reinstate a drainage pipe along Temp Steel Bridges	3 3 4 2 0 25	3 3 4 2 0 25	08-May-17 09-May-17 27-May-17 31-May-17 02-Jun-17 05-Jun-17	08-May-17 10-May-17 11-May-17 30-May-17 02-Jun-17 03-Jul-17	-653 -653 -671 -672 -672 -253	Calendar Day Calendar Day Calendar Day Calendar Day Calendar Day HK Working Day			Reinstatement of HH
S11-HH-4055 S11-HH-4056 S11-HH-4057 S11-HH-4059 S11-HH-4063 S11-HH-4064 S11-HH-4066 S11-HH-4068	Reinstatement of HHR Flyover - Place sub-base for the bridge Reinstatement of HHR Flyover - Lay asphalt and road markings Reinstatement of HHR Flyover - Install Road Furnitures for the bridge Reinstatement of HHR Flyover - Final Inspection of bridge and carry out traffic diversion Reinstatement of HHR Flyover - Traffic Diversion to reinstated bridge Reinstatement of HHR Flyover - Reinstate a drainage pipe along Temp Steel Bridges Reinstatement of HHR Flyover - Remove Temp Steel Bridge No. 1	3 3 4 2 0 25 43	3 3 4 2 0 25 43	08-May-17 09-May-17 27-May-17 31-May-17 02-Jun-17 05-Jun-17 05-Jun-17	08-May-17 10-May-17 11-May-17 30-May-17 02-Jun-17 03-Jul-17 21-Jul-17	-653 -653 -671 -672 -672 -253 -605	Calendar Day Calendar Day Calendar Day Calendar Day Calendar Day HK Working Day HK Working Day			Reinstatement of HH
S11-HH-4055 S11-HH-4056 S11-HH-4057 S11-HH-4059 S11-HH-4063 S11-HH-4064 S11-HH-4066 S11-HH-4068 S11-HH-4070	Reinstatement of HHR Flyover - Place sub-base for the bridge Reinstatement of HHR Flyover - Lay asphalt and road markings Reinstatement of HHR Flyover - Install Road Furnitures for the bridge Reinstatement of HHR Flyover - Install Road Furnitures for the bridge Reinstatement of HHR Flyover - Final Inspection of bridge and carry out traffic diversion Reinstatement of HHR Flyover - Traffic Diversion to reinstated bridge Reinstatement of HHR Flyover - Reinstate a drainage pipe along Temp Steel Bridges Reinstatement of HHR Flyover - Remove Temp Steel Bridge No. 1 Reinstatement of HHR Flyover - Remove Temp Steel Bridge No. 2	3 3 4 2 0 25 43 32	3 3 4 2 0 25 43 32	08-May-17 09-May-17 27-May-17 31-May-17 02-Jun-17 05-Jun-17 05-Jun-17 08-Jul-17	08-May-17 10-May-17 11-May-17 30-May-17 02-Jun-17 03-Jul-17 21-Jul-17 10-Aug-17	-653 -653 -671 -672 -672 -253 -605 -258	Calendar Day Calendar Day Calendar Day Calendar Day Calendar Day HK Working Day HK Working Day			Reinstatement of HHI
S11-HH-4055 S11-HH-4056 S11-HH-4057 S11-HH-4059 S11-HH-4063 S11-HH-4064 S11-HH-4066 S11-HH-4068	Reinstatement of HHR Flyover - Place sub-base for the bridge Reinstatement of HHR Flyover - Lay asphalt and road markings Reinstatement of HHR Flyover - Install Road Furnitures for the bridge Reinstatement of HHR Flyover - Final Inspection of bridge and carry out traffic diversion Reinstatement of HHR Flyover - Traffic Diversion to reinstated bridge Reinstatement of HHR Flyover - Reinstate a drainage pipe along Temp Steel Bridges Reinstatement of HHR Flyover - Remove Temp Steel Bridge No. 1	3 3 4 2 0 25 43	3 3 4 2 0 25 43	08-May-17 09-May-17 27-May-17 31-May-17 02-Jun-17 05-Jun-17 05-Jun-17	08-May-17 10-May-17 11-May-17 30-May-17 02-Jun-17 03-Jul-17 21-Jul-17	-653 -653 -671 -672 -672 -253 -605 -258	Calendar Day Calendar Day Calendar Day Calendar Day Calendar Day HK Working Day HK Working Day			Reinstatement of HHI
S11-HH-4055 S11-HH-4056 S11-HH-4057 S11-HH-4059 S11-HH-4063 S11-HH-4064 S11-HH-4066 S11-HH-4068 S11-HH-4070	Reinstatement of HHR Flyover - Place sub-base for the bridge Reinstatement of HHR Flyover - Lay asphalt and road markings Reinstatement of HHR Flyover - Install Road Furnitures for the bridge Reinstatement of HHR Flyover - Final Inspection of bridge and carry out traffic diversion Reinstatement of HHR Flyover - Traffic Diversion to reinstated bridge Reinstatement of HHR Flyover - Reinstate a drainage pipe along Temp Steel Bridges Reinstatement of HHR Flyover - Remove Temp Steel Bridge No. 1 Reinstatement of HHR Flyover - Remove Temp Steel Bridge No. 2 Reinstatement of HHR Flyover - Remove Temp Steel Bridge No. 3	3 3 4 2 0 25 43 32	3 3 4 2 0 25 43 32	08-May-17 09-May-17 27-May-17 31-May-17 02-Jun-17 05-Jun-17 05-Jun-17 08-Jul-17	08-May-17 10-May-17 11-May-17 30-May-17 02-Jun-17 03-Jul-17 21-Jul-17 10-Aug-17	-653 -653 -671 -672 -672 -253 -605 -258	Calendar Day Calendar Day Calendar Day Calendar Day Calendar Day HK Working Day HK Working Day			Reinstatement of HHI
S11-HH-4055 S11-HH-4056 S11-HH-4057 S11-HH-4059 S11-HH-4063 S11-HH-4064 S11-HH-4066 S11-HH-4068 S11-HH-4070 S11-HH-4072 Reinstatement of Box Culvert O Com	Reinstatement of HHR Flyover - Place sub-base for the bridge Reinstatement of HHR Flyover - Lay asphalt and road markings Reinstatement of HHR Flyover - Install Road Furnitures for the bridge Reinstatement of HHR Flyover - Install Road Furnitures for the bridge Reinstatement of HHR Flyover - Final Inspection of bridge and carry out traffic diversion Reinstatement of HHR Flyover - Final Inspection of bridge and carry out traffic diversion Reinstatement of HHR Flyover - Traffic Diversion to reinstated bridge Reinstatement of HHR Flyover - Reinstate a drainage pipe along Temp Steel Bridges Reinstatement of HHR Flyover - Remove Temp Steel Bridge No. 1 Reinstatement of HHR Flyover - Remove Temp Steel Bridge No. 2 Reinstatement of HHR Flyover - Remove Temp Steel Bridge No. 3 Box Culvert O nstruction (Tunnel Section) - Bay 15A and Bay 16A	3 3 4 2 0 25 43 32	3 3 4 2 0 25 43 32	08-May-17 09-May-17 27-May-17 31-May-17 02-Jun-17 05-Jun-17 08-Jul-17 05-Jun-17	08-May-17 10-May-17 11-May-17 30-May-17 02-Jun-17 03-Jul-17 21-Jul-17 10-Aug-17 08-Jul-17	-653 -653 -671 -672 -672 -253 -605 -258	Calendar Day Calendar Day Calendar Day Calendar Day Calendar Day HK Working Day HK Working Day HK Working Day			Reinstatement of HH
S11-HH-4055 S11-HH-4056 S11-HH-4057 S11-HH-4059 S11-HH-4063 S11-HH-4064 S11-HH-4066 S11-HH-4068 S11-HH-4070 S11-HH-4072	Reinstatement of HHR Flyover - Place sub-base for the bridge Reinstatement of HHR Flyover - Lay asphalt and road markings Reinstatement of HHR Flyover - Install Road Furnitures for the bridge Reinstatement of HHR Flyover - Final Inspection of bridge and carry out traffic diversion Reinstatement of HHR Flyover - Final Inspection of bridge and carry out traffic diversion Reinstatement of HHR Flyover - Traffic Diversion to reinstated bridge Reinstatement of HHR Flyover - Reinstate a drainage pipe along Temp Steel Bridges Reinstatement of HHR Flyover - Remove Temp Steel Bridge No. 1 Reinstatement of HHR Flyover - Remove Temp Steel Bridge No. 2 Reinstatement of HHR Flyover - Remove Temp Steel Bridge No. 3 Box Culvert O	3 3 4 2 0 25 43 32 31	3 3 4 2 0 25 43 32	08-May-17 09-May-17 27-May-17 31-May-17 02-Jun-17 05-Jun-17 05-Jun-17 08-Jul-17	08-May-17 10-May-17 11-May-17 30-May-17 02-Jun-17 03-Jul-17 21-Jul-17 10-Aug-17 08-Jul-17	-653 -653 -671 -672 -672 -253 -605 -258	Calendar Day Calendar Day Calendar Day Calendar Day Calendar Day HK Working Day HK Working Day HK Working Day	atement - Construct 2m thk G200 rock	ill bedding and blinding	Reinstatement of HH
S11-HH-4055 S11-HH-4056 S11-HH-4057 S11-HH-4059 S11-HH-4063 S11-HH-4064 S11-HH-4066 S11-HH-4068 S11-HH-4070 S11-HH-4070 S11-HH-4072 Reinstatement of Box Culvert O Con S11-BCO-2065 Box Culvert O Con	Reinstatement of HHR Flyover - Place sub-base for the bridge Reinstatement of HHR Flyover - Lay asphalt and road markings Reinstatement of HHR Flyover - Install Road Furnitures for the bridge Reinstatement of HHR Flyover - Install Road Furnitures for the bridge Reinstatement of HHR Flyover - Final Inspection of bridge and carry out traffic diversion Reinstatement of HHR Flyover - Final Inspection of bridge and carry out traffic diversion Reinstatement of HHR Flyover - Traffic Diversion to reinstated bridge Reinstatement of HHR Flyover - Reinstate a drainage pipe along Temp Steel Bridges Reinstatement of HHR Flyover - Remove Temp Steel Bridge No. 1 Reinstatement of HHR Flyover - Remove Temp Steel Bridge No. 2 Reinstatement of HHR Flyover - Remove Temp Steel Bridge No. 3 Box Culvert O Instruction (Tunnel Section) - Bay 15A and Bay 16A Box Culvert O Reinstatement - Construct 2m thk G200 rockfill bedding and blinding Instruction (South Portion) - Bay 12 to Bay 14	3 3 4 2 0 25 43 32 31	3 3 4 2 0 25 43 32 31	08-May-17 09-May-17 27-May-17 31-May-17 02-Jun-17 05-Jun-17 08-Jul-17 05-Jun-17	08-May-17 10-May-17 11-May-17 30-May-17 02-Jun-17 03-Jul-17 21-Jul-17 10-Aug-17 08-Jul-17	-653 -653 -671 -672 -672 -253 -605 -258	Calendar Day Calendar Day Calendar Day Calendar Day Calendar Day HK Working Day HK Working Day HK Working Day	atement - Construct 2m thk G200 rock	ill bedding and blinding	Reinstatement of HH
S11-HH-4055 S11-HH-4056 S11-HH-4057 S11-HH-4059 S11-HH-4063 S11-HH-4064 S11-HH-4066 S11-HH-4068 S11-HH-4068 S11-HH-4070 S11-HH-4070 S11-HH-4070 S11-HH-4070 S11-HH-4070 S11-HH-4070 S11-HH-4072 Reinstatement of Box Culvert O Com S11-BCO-2065	Reinstatement of HHR Flyover - Place sub-base for the bridge Reinstatement of HHR Flyover - Lay asphalt and road markings Reinstatement of HHR Flyover - Install Road Furnitures for the bridge Reinstatement of HHR Flyover - Install Road Furnitures for the bridge Reinstatement of HHR Flyover - Final Inspection of bridge and carry out traffic diversion Reinstatement of HHR Flyover - Final Inspection of bridge and carry out traffic diversion Reinstatement of HHR Flyover - Traffic Diversion to reinstated bridge Reinstatement of HHR Flyover - Reinstate a drainage pipe along Temp Steel Bridges Reinstatement of HHR Flyover - Remove Temp Steel Bridge No. 1 Reinstatement of HHR Flyover - Remove Temp Steel Bridge No. 2 Reinstatement of HHR Flyover - Remove Temp Steel Bridge No. 3 Box Culvert O Instruction (Tunnel Section) - Bay 15A and Bay 16A Box Culvert O Reinstatement - Construct 2m thk G200 rockfill bedding and blinding	3 3 4 2 0 25 43 32 31	3 3 4 2 0 25 43 32 31	08-May-17 09-May-17 27-May-17 31-May-17 02-Jun-17 05-Jun-17 08-Jul-17 05-Jun-17	08-May-17 10-May-17 11-May-17 30-May-17 02-Jun-17 03-Jul-17 21-Jul-17 10-Aug-17 08-Jul-17	-653 -653 -671 -672 -672 -253 -605 -258	Calendar Day Calendar Day Calendar Day Calendar Day Calendar Day HK Working Day HK Working Day HK Working Day	atement - Construct 2m thk G200 rock	ill bedding and blinding	Reinstatement of HH
S11-HH-4055 S11-HH-4056 S11-HH-4057 S11-HH-4059 S11-HH-4063 S11-HH-4064 S11-HH-4066 S11-HH-4068 S11-HH-4070 S11-HH-4070 S11-HH-4072 Reinstatement of Box Culvert O Com S11-BCO-2005	Reinstatement of HHR Flyover - Place sub-base for the bridge Reinstatement of HHR Flyover - Lay asphalt and road markings Reinstatement of HHR Flyover - Install Road Furnitures for the bridge Reinstatement of HHR Flyover - Install Road Furnitures for the bridge Reinstatement of HHR Flyover - Install Road Furnitures for the bridge Reinstatement of HHR Flyover - Final Inspection of bridge and carry out traffic diversion Reinstatement of HHR Flyover - Traffic Diversion to reinstated bridge Reinstatement of HHR Flyover - Reinstate a drainage pipe along Temp Steel Bridges Reinstatement of HHR Flyover - Remove Temp Steel Bridge No. 1 Reinstatement of HHR Flyover - Remove Temp Steel Bridge No. 2 Reinstatement of HHR Flyover - Remove Temp Steel Bridge No. 3 Box Culvert O Instruction (Tunnel Section) - Bay 15A and Bay 16A Box Culvert O Reinstatement - Construct 2m thk G200 rockfill bedding and blinding Instruction (South Portion) - Bay 12 to Bay 14 Box Culvert O Reinstatement - Fabricate Precast Units about 60 nos. (Construction Details liaising with AECOM)	3 3 4 2 0 25 43 32 31	3 3 4 2 0 25 43 32 31	08-May-17 09-May-17 27-May-17 31-May-17 02-Jun-17 05-Jun-17 05-Jun-17 05-Jun-17 05-Jun-17	08-May-17 10-May-17 11-May-17 30-May-17 02-Jun-17 03-Jul-17 21-Jul-17 10-Aug-17 08-Jul-17 08-Jul-17	-653 -653 -671 -672 -672 -253 -605 -258 -258	Calendar Day Calendar Day Calendar Day Calendar Day Calendar Day HK Working Day HK Working Day HK Working Day	atement - Construct 2m thk G200 roc d	ill bedding and blinding	Reinstatement of HHI
S11-HH-4055 S11-HH-4056 S11-HH-4057 S11-HH-4059 S11-HH-4063 S11-HH-4064 S11-HH-4066 S11-HH-4068 S11-HH-4068 S11-HH-4070 S11-HH-4072 Reinstatement of Box Culvert O Con S11-BCO-2065 Box Culvert O Con S11-BCO-2200	Reinstatement of HHR Flyover - Place sub-base for the bridge Reinstatement of HHR Flyover - Lay asphalt and road markings Reinstatement of HHR Flyover - Install Road Furnitures for the bridge Reinstatement of HHR Flyover - Install Road Furnitures for the bridge Reinstatement of HHR Flyover - Install Road Furnitures for the bridge Reinstatement of HHR Flyover - Final Inspection of bridge and carry out traffic diversion Reinstatement of HHR Flyover - Traffic Diversion to reinstated bridge Reinstatement of HHR Flyover - Reinstate a drainage pipe along Temp Steel Bridges Reinstatement of HHR Flyover - Remove Temp Steel Bridge No. 1 Reinstatement of HHR Flyover - Remove Temp Steel Bridge No. 2 Reinstatement of HHR Flyover - Remove Temp Steel Bridge No. 3 Box Culvert O Instruction (Tunnel Section) - Bay 15A and Bay 16A Box Culvert O Reinstatement - Construct 2m thk G200 rockfill bedding and blinding Instruction (South Portion) - Bay 12 to Bay 14 Box Culvert O Reinstatement - Fabricate Precast Units about 60 nos. (Construction Details liaising with AECOM)	3 3 4 2 0 25 43 32 31	3 3 4 2 0 25 43 32 31	08-May-17 09-May-17 27-May-17 31-May-17 02-Jun-17 05-Jun-17 05-Jun-17 05-Jun-17 05-Jun-17	08-May-17 10-May-17 11-May-17 30-May-17 02-Jun-17 03-Jul-17 21-Jul-17 10-Aug-17 08-Jul-17 08-Jul-17	-653 -653 -671 -672 -253 -605 -258 -258 -258	Calendar Day Calendar Day Calendar Day Calendar Day Calendar Day HK Working Day HK Working Day HK Working Day		TTA \$cheme at	Reinstatement of HH
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	♦ Milestone			Date	
	 Critical Milestones 				Rev
		CHUN WO - CRGL	CEDD CONTRACT NO. HK/2009/02		
	Current Works				
	Critical Works	JOINT VENTURE	WD II - Central Wanchai Bypass at Wan Chai East (Contract 2)		
	Remaining Level of Effort		3-MONTH ROLLING PROGRAMME (dd 20-Apr-17)		-
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 er - Erect falsework and formwork for the walls of west abutment, Reinstatement er - Fix Re-bars for the walls of west abutment, Reinstatement of HHR Flyover

 over - Concreting for the walls of west abutment, Reinstatement of HHR Flyover

 over - Formwork stripping for the walls of west abutment, Reinstatement of HHR Flyover

layer for the bay 2 of HHR, Reinstatement of HHR Flyover - Lay blinding layer for Flyover - Erect fmk for the base slab of bay 2 of HHR, Reinstatement of HHR Fly Flyover - Fix Re-bars for the base slab of bay 2 of HHR, Reinstatement of HHR R Flyover - Concreting for the base slab of bay 2 of HHR, Reinstatement of HHR f HHR Flyover - Erect falsework and formwork for bay 2 of HHR, Reinstatement of HHR f HHR Flyover - Fix Re-bars for the walls of bay 2 of HHR, Reinstatement of HHR of HHR Flyover - Concreting for the walls of bay 2 of HHR, Reinstatement of HHR nent of HHR Flyover - Formwork stripping for the walls of bay 2 of HHR, Reinstatement of HHR statement of HHR Flyover - Formwork stripping for the walls of bay 2 of HHR, Reinstatement statement of HHR Flyover - Formwork stripping for the transition slab. Reinstatement reinstatement of HHR Flyover - Fix Re-bars for the transition slab, Reinstatement Reinstatement of HHR Flyover - Fix Re-bars for the transition slab, Reinstatement Reinstatement of HHR Flyover - Fix Re-bars for the transition slab, Reinstatement Reinstatement of HHR Flyover - Fix Re-bars for the transition slab, Reinstatement Reinstatement of HHR Flyover - Concreting for the transition slab, Reinstatement Reinstatement of HHR Flyover - Fix Re-bars for the transition slab, Reinstatement Reinstatement of HHR Flyover - Kornwork for the transition slab, Reinstatement Reinstatement of HHR Flyover - Kir Re-bars for the transition slab, Reinstatement Reinstatement of HHR Flyover - Kir Re-bars for the transition slab, Reinstatement Reinstatement of HHR Flyover - Kir Re-bars for the transition slab, Reinstatement Reinstatement of HHR Flyover - Kir Re-bars for the transition slab, Reinstatement Reinstatement of HHR Flyover - Kir Re-bars for the transition slab, Reinstatement Reinstatement of HHR Flyover - Kir Re-bars for the transition slab, Reinstatement Reinstatement for the transition slab, Reinstatement Reinstatement for the transition slab, Reinstatement Reinstatement for the transition slab, Reinsta

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Reinstatement of HHR Flyover - Erect falsework and fmk for the bridge decking, Reinstatement of HHR Flyover - Fix Re-bars for the bridge decking, Reinstate Reinstatement of HHR Flyover - Concreting for the bridge decking, Reinstate Reinstatement of HHR Flyover - Curing for the bridge decking, Reinstate Reinstatement of HHR Flyover - Dismantle falsework and fmk for the bridge

Reinstatement of HHR Flyover - Cover up all utilities, Reinstatement R Flyover - Lay drainage works and corss road ducts for the bridge, Reinstatement HR Flyover - Place sub-base for the bridge, Reinstatement of HHR Flyover - P HHR Flyover - Lay asphalt and road markings, Reinstatement of HHR Flyover Reinstatement of HHR Flyover - Install Road Furnitures for the bridge,

Reinstatement of HHR Flyover - Final Inspection of bridge and carr
 Reinstatement of HHR Flyover - Traffic Diversion to reinstated bridge
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Reinstatement of

orsement by ER, TTA Scheme at Wan Shing Street - Endorsement by ER Removal of Hoarding and paving temporary road at Hung Hing Street with road n excavation at Wan Shiing Street, Apply TTA for op en trench excavation at Wan Implement TTA Stage 1 ction and excavate trial pit TH-HHR-04 at Wan Shiing Street, UU detection and e

Revision	Checked	Approved
v. Programme (08-Apr		

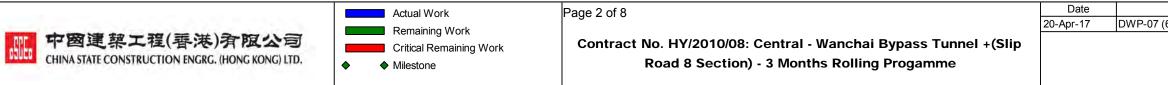
Image: Note of the state of the st	ctivity ID	Activity Name	Ori	Rem	Scheduled/	Scheduled/	Total	Calendar					1			2017	-		-	-	
Stil-SW-1066Backfill the trench (300mm/layer) and reinstate the pavement at Wan Shing Street212124 May -1715-Jun-17-239HK Working DayS11-SW-1080Implement TTA Stage 21117-Jun-1717-Jun-17-239HK Working DayS11-SW-1081UU detection and excavate trial pit TH-HHR-04 at Wan Shing Street4417-Jun-1722-Jun-17-239HK Working DayS11-SW-1082Liaison with UU companies7722-Jun-1729-Jun-17-239HK Working Day			Dur	Dur	Actual Start	Actual Finish	Float	_	26	02	April	23	30	07	May 14	21		04	June 11 18	25	
S11-SW-1080Implement TTA Stage 2Implement TTA Stage 2Implement TTA Stage 2, Implement TTA Stag	S11-SW-1064	Liaison with UU companies	7	7	17-May-17	24-May-17	-239	HK Working Day	20	02		20	00	0,		Li	aison with U	JU compar	ies, Liaison with	UU compani	95
S11-SW-1081UU detection and excavate trial pit TH-HHR-04 at Wan Shiing Street4417-Jun-1722-Jun-17-239HK Working DayS11-SW-1082Liaison with UU companies7722-Jun-1729-Jun-17239HK Working Day	S11-SW-1066	Backfill the trench (300mm/layer) and reinstate the pavement at Wan Shing Street	21	21	24-May-17	15-Jun-17	-239	HK Working Day									Lk-		Backfill the	trench (300n	m/layer) and reinst
S11-SW-1082 Liaison with UU companies 7 7 22-Jun-17 239 HK Working Day	S11-SW-1080	Implement TTA Stage 2	1	1	17-Jun-17	17-Jun-17	-239	HK Working Day							1				lmplen	ent TTA Stage	2, Implement TTA
	S11-SW-1081	UU detection and excavate trial pit TH-HHR-04 at Wan Shiing Street	4	4	17-Jun-17	22-Jun-17	-239	HK Working Day											, in the second se	U detection a	ind excavate trial pr
S11-SW-1083 Trench ex cavation and shoring installation at Wan Shiing Street 12 12 29-Jun-17 14-Jul-17 -239 HK Working Day	S11-SW-1082	Liaison with UU companies	7	7	22-Jun-17	29-Jun-17	-239	HK Working Day											-	Liais	on with UU compani
	S11-SW-1083	Trench ex cavation and shoring instalation at Wan Shiing Street	12	12	29-Jun-17	14-Jul-17	-239	HK Working Day													Tren
S11-SW-1084 Divert existing DN500 from MH 17 to MH 19 and removal of D300 pvc pipe at Wan Shiing Street 6 6 14-Jul-17 20-Jul-17 -239 HK Working Day	S11-SW-1084	Divert existing DN500 from MH 17 to MH 19 and removal of D300 pvc pipe at Wan Shiing Street	6	6	14-Jul-17	20-Jul-17	-239	HK Working Day													
Soft Landscaping & Establishment Works																					
Section 12 of the Works - Protection and Preservation of Existing Trees	S12-0010	Protection and preservation of existing trees	2111	476	24-Feb-10 A	08-Aug-18	-443	Calendar Day				1	1	1	-	1					

•	♦ Milestone			Date	Revision	Checked	Approved
•	 Critical Milestones 			Rev. Programme (08-Apr			
·		CHUN WO - CRGL CEDD CONTRACT NO. HK/2009/02					
	Current Works						
	Critical Works	JOINT VENTURE	WD II - Central Wanchai Bypass at Wan Chai East (Contract 2)				
	Remaining Level of Effort		3-MONTH ROLLING PROGRAMME (dd 20-Apr-17)				
		3-WONTH ROLLING PROGRAMME (dd 20-Api-17)					

R8_DWP_R07-06 N	3_DWP_R07-06 MU49				SF	R8 - Layout	for 3N	/RP_	2107_04							
ctivity ID	Activity Name	Original Duration		Finish									2017			
Total		1791d	21-Mar-13 A	09-Feb-18		A	Apr	<u> </u>			May				Jur	<u> </u>
		1791d	21-Mar-13 A	09-Feb-18												-
Works in KD2		95d	01-Mar-17 A	03-Jun-17												-
Works in TS3-Ea	st	95d	01-Mar-17 A	03-Jun-17												-
Removal of Temp	porary Reclamation at TS3(E)	95d	01-Mar-17 A	03-Jun-17												-
TS3E Remaining	y Works & TS3E/TS3W, TS3E/TS2 Sitiching Works	95d	01-Mar-17 A	03-Jun-17					1 1 1							-
West Bound Tu	innel (W/B)	91d	01-Mar-17 A	30-May-17												-
Outstanding F	Reinforced Concrete Works	91d	01-Mar-17 A	30-May-17		1			1 1 1							
A6570	General Cleaning Works for the Tunnel, CCTV and Pipe WaterJack Cleaning	10d	01-Mar-17 A	07-Apr-17 A		eneral Clean	ing Wor	is for	the Tunnel, C	CCTV and Pipe WaterJacl	¢leaning					
A6580	Joint Site Walk	5d	20-Apr-17	24-Apr-17					Joint Si	ite Walk						
A6590	Handover Date	1d	30-May-17	30-May-17									Handov	ver Date		
Stitching of T	FS2 & TS3E (5.0 m Tunnel Length for Base Slab, Roof Slab, Approx. 15 m length for OF	40d	20-Apr-17	29-May-17		1		-	- 							_
	TS2/TS3E OHVD (Hindrance: Falsework Erection and Rebar Lifting) - 10 days	23d	20-Apr-17	12-May-17							TS2/TS3E 0) HVD (Hindrar	nce: Falsework E	Frection and	Rebar Lifti	- (pn
A6660	Falsework Removal for OHVD - 7 days	7d	23-May-17	29-May-17										k Removal f		
	r and Maintenance Walkway	8d	20-Apr-17	27-Apr-17		1 1 1			1 1 1							
A6700	Install Precast Concrete Covers on Cable Trough (2 X 90m)	8d	20-Apr-17	27-Apr-17						stall Precast Concrete Co		Trough (2 X C)(m)			
East Bound Tu		62d	06-Mar-17 A	03-Jun-17												
	Reinforced Concrete Works	62d	06-Mar-17 A	03-Jun-17		T										
A6950	General Cleaning Works for the Tunnel	25d	11-Mar-17 A	23-Mar-17 A	s for th	ne Tunnel										
A6960	Joint Site Walk	5d	29-May-17	02-Jun-17										oint Site Wal		
A6970	Handover Date	1d	03-Jun-17	03-Jun-17										Handover D	ate	
Stitching of T	FS2 & TS3E (5.0 m Length for Base Slab, Roof Slab, Approx. 15 m length for OHVD)	56d	06-Mar-17 A	28-May-17												
A6860	TS2/TS3E OHVD (Hindrance: Falsework Erection and Rebar Lifting) - 10 days	10d	06-Mar-17 A	11-May-17							T\$2/TS3E OH	VD (Hindrance	e: Falsework Er	ection and R	ebar Lifting) - 1
A6870	Falsework Removal for OHVD - 7 days	7d	22-May-17	28-May-17									Falsework	Removal for	OHVD - 7	days
Profile Barrier	r and Maintenance Walkway	8d	24-Mar-17 A	31-Mar-17 A												
A6910	Install Precast Concrete Covers on Cable Trough (2 X 90m)	8d	24-Mar-17 A	31-Mar-17 A	recast	Concrete Co	vers on	Cable	Trough (2 X	90m)				:		
Works in KD7		81d	04-Mar-17 A	08-Jun-17					1							
Works in TS3-We	est	81d	04-Mar-17 A	08-Jun-17					- - 					-		
Tunnel Structure		81d	04-Mar-17 A	08-Jun-17												
Earthwork Back	filling, ELS Removal and Water Recharging	38d	04-Mar-17 A	06-Apr-17 A					1 1 1							
East Portion		38d	04-Mar-17 A	30-Mar-17 A		1			1 1 1							+
A2490	Stage 4 Backfilling- 25000 m3 (-14mPD~ -7.0 mPD, Bay 2- Bay 4) - 1000 m3 per day	19d	04-Mar-17 A	22-Mar-17 A) m3 (-	14mPD~ -7.0	mPD, B	ay 2- E	ay 4) - 1000) m3 per day				:		
A2520	Stage 5 Backfilling ~ 15000 m3 (-30 mPD ~ -7.0 mPD, Bay 1) ~ 1000 m3 per day	10d	22-Mar-17 A	28-Mar-17 A	kfilling	≁ 15000 m3 (-	30 mPE)~ -7.(mPD, Bay 1	1) ~ 1000 m3 per day						
A2500	Removal of 2nd Layer ELS and Removal of Reprop inside Tunnel (Bay 2- Bay 4)	7d	23-Mar-17 A	26-Mar-17 A	ayer E	LS and Remo	val of R	eprop	inside Tunnel	l (Bay 2- Bay 4)						
A2510	Closure of wall opening in Bay 1 of CCT (Wall 4 and Wall 5)	14d	23-Mar-17 A	26-Mar-17 A	ening i	h Bay 1 of CC	; T (Wall	4 and	Wall 5)							
A2530	Removal of 2nd Layer ELS (Bay 1)	5d	29-Mar-17 A	30-Mar-17 A	of 2nd	Layer ELS (B	ay 1)							2		
West Portion		6d	10-Mar-17 A	20-Mar-17 A				-	1							-
A2550	Removal of 2nd Layer ELS - 6 days	6d	10-Mar-17 A	20-Mar-17 A	6 days											
	e (CNY- 27/1~ 2/2)	1d	31-Mar-17 A	06-Apr-17 A	,-			-	1							
A2560	Water Re-charge to ELS Cofferdam	1d	31-Mar-17 A	06-Apr-17 A	→ \\/ <	ater Re-charg		Coffe	rdam							
					VV	ater Re-charg	e lo ELC									
	val Works between TS4/TS3W and Shaft D Closure	81d	23-Mar-17 A	08-Jun-17										00 1		
A2590	Skin Wall Removal Works between TS4/TS3W - 20 days (2nd stage) - After Tunnel Roof Slab Completion - E/B and W/B	20d	23-Mar-17 A	09-May-17						Skir	Wall Remova	I Works betwe	en TS4/TS3W -			
A2600	Construction of Remaining Tunnel Structure between CH. 4260.2- 4265.2 at SOL T100 for Mainline E/B, W/B, SR8	30d	10-May-17	08-Jun-17					1					Co	onstruction	of¦R
	Actual			Page ?	1 of 8									Date 20-Apr-1		WP
		ning Work		Co	ntrac	t No L	V/20-	10/0	18. Con	tral - Wanchai	Rypass	Tunnol			. 10	
		Remainin	g Work		au					Months Rolling	•••					
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ter Tunnel Roc				
Remaining Tu	nnel Structu	re between	CH. 4260.2- 426	5.2 at SOL T100 for
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Re	evision		Checked	Approved
/P-07 (6) - 3		Rolling	FS	TL

ctivity ID	Activity Name	Original Duration	Start	Finish	2017
Removal Bulki	head at CH525 (TS3W / SR8 Junction)	41d	06-Mar-17 A	13-Apr-17 A	Apr May Jun
A6080	Remove Bulkhead between TS3W & SR8	37d	06-Mar-17 A	13-Apr-17 A	Remove Bulkhead between T\$3W & SR8
A5180	Remove Scaffolding of SR1R Roof	4d	22-Mar-17 A	25-Mar-17 A	of SR IR Roof
Works in KD8		129d	09-Mar-17 A	28-Jul-17	
TS3W - Remove	e Temporary Reclamation	129d	09-Mar-17 A	28-Jul-17	
Stage 1 - North	West Corner (Bay Z4-25 to Bay 20)	56d	09-Mar-17 A	14-Apr-17 A	
A2660	Remove filled material to -4.35mPD at Bay Z4-25 to Bay 19 (6,500m3)	8d	09-Mar-17 A	24-Mar-17 A	I to -4.35mPD at Bay Z4-25 to Bay 19 (6,500m3)
A2670	Remove filled material to -4.35mPD at Bay Z4-22 to Z4-24 (4,500m3)	5d	25-Mar-17 A	14-Apr-17 A	Remove tilled material to -4.35mPD at Bay/Z4-22 to Z4-24 (4,500m3)
A2680	Remove seawall blocks at Bay Z4-25 to Bay 20 (426 nos.)	8d	27-Mar-17 A	10-Apr-17 A	Remove seawall blocks at Bay Z4-25 to Bay 20 (426 nos.)
A6260	Remove filled material to -7.0 mPD	4d	05-Apr-17 A	13-Apr-17 A	Remove filled material to -7.0 mPD
Stage 2 - North	to East Side (Bay 19 to Bay 11 + Bay 26 to Bay 28)	14d	24-Mar-17 A	07-Apr-17 A	
A2690	Break concrete slab at Bay 19 to Bay 11 + Bay 26 to Bay 28 (2,500m2)	7d	24-Mar-17 A	31-Mar-17 A	pncrete slab at Bay 19 to Bay 11 + Bay 26 to Bay 28 (2,500m2)
A2700	Remove filled material to +2.8mPD (2,500m3)	7d	01-Apr-17 A	07-Apr-17 A	Remove filled material o +2.8mPD (2,500m3)
Stage 3 - North	to East Side (Bay 19 to bay 26)	49d	31-Mar-17 A	01-May-17	
A2710	Completion of Recharging of Sea Water into TS3W Cofferdam	2d	31-Mar-17 A	04-Apr-17 A	Completion of Recharging of Sea Water into TS3W Cofferdam
North West D-	wall Opening	22d	07-Apr-17 A	29-Apr-17 A	
A2720	Core D-wall cut holes at Panel DW02 to NA6 (27 nos.)	6d	07-Apr-17 A	10-Apr-17 A	Core D-wall cut roles at Panel DW02 to NA6 (27 nos.)
A2730	Vertical cut at Panel DW02 to NA6 (19 nos.)	8d	14-Apr-17 A	20-Apr-17 A	Vertical cut at Panel DW02 to NA6 (19 nos.)
A2740	Horizontal cut at Panel DW02 to NA6 (25 nos.)	8d	21-Apr-17 A	29-Apr-17 A	Hprizontal cut at Panel DW02 to NA6 (25 nos.)
North East & E	East	13d	13-Apr-17 A	01-May-17	
A2750	Remove filled material to -4.35mPD (22,500m3)	9d	13-Apr-17 A	26-Apr-17	Remove filled-material to -4.35mPD (22,500m3)
A2760	Remove seawall blocks at Bay 19 to 11 & Bay 26 to 28 (1,335 nos.)	13d	20-Apr-17 A	29-Apr-17	Remove seawall blocks at Bay 19 to 11 & Bay 26 to 28 (1,335 nos.)
A2770	Remove filled material to -7.0mPD (North & East side)	10d	29-Apr-17 A	01-May-17	Remove filled material to -7.0mPD (North & East side)
Stage 4 - West 8	& South Side (Remove Seawall Block Bay Z4-23 & 24, Excavate to -4.35mPD)	47d	31-Mar-17 A	05-Jun-17	
West Side		18d	31-Mar-17 A	07-May-17	
A2790	Remove seawall blocks at Bay Bay Z4-23 to Z4-24 (249 nos.)	5d	31-Mar-17 A	02-May-17	Remove seawall blocks at Bay Bay Z4-23 to Z4-24 (249 nos.)
A2800	Remove filled material to -7.0mPD (West)	5d	03-May-17	07-May-17	Remove filled material tp -7.0mPD (West)
North East Sid	le	32d	19-Apr-17 A	05-Jun-17	
A2810	Core D-wall cut holes at Panel W1D1 to W1D32 (128 nos.) (North Side)	14d	19-Apr-17 A	26-Apr-17 A	Core D-wall cut holes at Panel W1D1 to W1D32 (128 nos.) (North Side)
A2820	Vertical cut at Panel W1D1 to W1D32 (96 nos.) (North Side)	16d	27-Apr-17 A	08-May-17	Vertical cut at Panel W1D1 to W1D32 (96 nos.) (North Side)
A2830	Horizontal cut at Panel W1D1 to W1D32 (128 nos.) (North Side)	20d	17-May-17	05-Jun-17	Horizontal cut at Panel
East Side		33d	20-Apr-17 A	03-Jun-17	
A2840	Core D-wall cut holes at Panel TZ31 to TZ38 (32 nos.) (East Side)	10d	20-Apr-17 A	26-Apr-17 A	Core D-wall cut holes at Panel TZ31 to TZ38 (32 nos.) (East Side)
A2850	Vertical cut at Panel TZ31 to TZ38 (24 nos.) (East Side)	9d	16-May-17	24-May-17	Vertical cut at Pariel TZ31 to TZ38 (24 nos.) (E
A2860	Horizontal cut at Panel TZ31 to TZ38 (32 nos.) (East Side)	10d	25-May-17	03-Jun-17	Horizontal cut at Panel TZ3
South Side		30d	20-Apr-17	19-May-17	
A2870	Remove filled material to -4.35mPD (41,300m3)	30d	20-Apr-17	19-May-17	Remove filled material to -4,35mPD (41,300m3)
Stage 5 - West 8	& South side (Reove Seawwall Block Bay 24 7 25, Excvavate to -7.0mPD)	30d	12-Apr-17 A	06-Jun-17	
A2910	Core D-wall cut holes at Panel BWD2 to BWD9 (30 nos.) (West Side)	5d	12-Apr-17 A	17-Apr-17 A	Core D-wall cut holes at Panel BWD2 to BWD9 (30 nos.) (West Side)
A2920	Vertical cut at Panel BWD2 to BWD9 (22 nos.) (West Side)	8d	08-May-17	15-May-17	Vertical cut at Panel BWD2 to BWD9 (22 nos.) (West Side)
A2930	Horizontal cut at Panel BWD2 to BWD9 (29 nos.) (West Side)	8d	16-May-17	23-May-17	Horizontal cut at Panel BWD2 to BWD9 (29 nos.
A2880	Remove seawall blocks at Bay 24, 25 (264 nos.) (South West)	6d	20-May-17	25-May-17	Remove seawall blocks at Bay 24, 25 (264 n
A2890	Remove seawall blocks at Bay 2 to 4 (550 nos.) (South East)	11d	20-May-17	30-May-17	Remove seawall blocks at Bay 2 to
A2900	Remove filled material to -7.0mPD (South)	7d	31-May-17	06-Jun-17	Remove filled material



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I TZ	31 to TZ38 (32 nos.) (Ea	st	Side)			
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Activity ID	Activity Name	Origina Duration		Finish							20			
Stage 6 - West	& South Side (Saw Cut D-wall + Shaft D)	48d	24-May-17	10-Jul-17		A	\pr			May		J	in	
A2940	Remove fill material to -7.0mPD around shaft D	5d	24-May-17	28-May-17							Re	move fill material to -7.0mPD a	round shaft D	
A2950	Core D-wall cut holes at PanelW2D1 to W2D18 (72 nos.) (South West)	9d	07-Jun-17	15-Jun-17									Core D-wall cut holes at F	PanelW2D
A2980	Core D-wall cut holes at Panel W2D23 to W2D34 (50 nos.) (South East)	10d	07-Jun-17	16-Jun-17									Core D-wall cut holes a	
A2990	Vertical cut at Panel W2D23 to W2D34 (38 nos.) (South East)	13d	11-Jun-17	23-Jun-17									Vertical cu	
													Venticared	
A2960	Vertical cut at Panel W2D1 to W2D18 (54 nos.) (South West)	18d	15-Jun-17	02-Jul-17										Ve
A3000	Horizontal cut at Panel W2D23 to W2D34 (50 nos.) (South East)	13d	18-Jun-17	30-Jun-17										Horizo
A2970	Horizontal cut at Panel W2D1 to W2D18 (72 nos.) (South West)	18d	23-Jun-17	10-Jul-17										
	& South Side (Saw Cut Shaft D, Excavate to -7.0mPD at SR8)	40d	29-May-17	07-Jul-17										
A3010	Vertical cut at Shaft D (14 nos.)	10d	29-May-17	07-Jun-17									Shaft D (14 nos.)	
A3020	Horizontal cut at Shaft D (14 nos.)	5d	08-Jun-17	12-Jun-17								Hor	zontal cut at Shaft D (14 no	s.)
A3030	Remove filled material to -7.0mPD at SR8	7d	01-Jul-17	07-Jul-17										
Stage 8 - South	h East & West Side (Remove Seawall Block Bay Z4-22 to Bay 23, Saw Cut D-wall at SR8)	46d	13-Jun-17	28-Jul-17			-							
South West S	ide	42d	13-Jun-17	24-Jul-17										
A3040	Remove seawall blocks at Bay Z4-22 to Bay 23 (741 nos.)	15d	13-Jun-17	27-Jun-17									Re	emove sea
A3050	Remove filled material to -7.0mPD (South West)	8d	28-Jun-17	05-Jul-17									-	-
A3060	Vertical cut at Panel BWD10 to SA7 (26 nos.) (South West)	9d	06-Jul-17	14-Jul-17										
A3070	Horizontal cut at Panel BWD10 to SA7 (37 nos.) (South West)	10d	15-Jul-17	24-Jul-17										
SR08 - West V	Nall	21d	08-Jul-17	28-Jul-17										
A3080	Vertical cut at Panel W4D1 to W4D11 (28 nos.) (SR8)	10d	08-Jul-17	17-Jul-17										
A3090	Horizontal cut at Panel W4D1 to W4D11 (39 nos.) (SR8)	11d	18-Jul-17	28-Jul-17										
SR08 - East W	Vall	19d	08-Jul-17	26-Jul-17										
A7010	Vertical cut at Panel W4D1 to W4D11 (26 nos.)	9d	08-Jul-17	16-Jul-17										
A7020	Horizontal cut at Panel W3D1 to W3D7 (36 nos.)	10d	17-Jul-17	26-Jul-17										
Works in KD6		136d	22-Jan-17 A	05-Jul-17				1						
	(Open Cut Method)	136d	22-Jan-17 A	05-Jul-17				-						
	- Ch. 528 to Ch. 368	88d	14-Feb-17 A	16-May-17										
Zone C - Tun		88d	14-Feb-17 A	16-May-17			-							
1.2m Thick B	Base Slab	2d	26-Feb-17 A											
Bay C6		2d	26-Feb-17 A											
A7540	C6 - Remove Strut SL5 & SL3	2d	26-Feb-17 A	21-Apr-17					C6 - Remove	Strut SL5 & SL3				
1.0m Thick V	Vall at Both Side	7d	22-Apr-17	28-Apr-17										
LHS Wall		7d	22-Apr-17	28-Apr-17										
A7340	5th Pour - CH500 to CH525	7d	22-Apr-17	28-Apr-17			-	- I	5	5th Pour - CH500 to CH525				
200mm Thick	k OHVD Slab & 400mm Thick Hanger Wall	9d	01-May-17	09-May-17										
Bay C6		9d	01-May-17	09-May-17										
A7570	C6 - Construct OHVD Slab & Hanger Wall	9d	01-May-17	09-May-17						C6 - Construct OH	IVD Slab & Hanger W	all		
1.2m Thick R	Roof Slab	55d	14-Feb-17 A	08-May-17										
Bay C4		13d	14-Feb-17 A	24-Mar-17 A										
A7610	C4 - Roof Slab Construction	13d	14-Feb-17 A	24-Mar-17 A	ructio	n								
Bay C5		8d	16-Mar-17 A	25-Mar-17 A										
A7620	C5 - Roof Slab Construction	8d	16-Mar-17 A	25-Mar-17 A	struct	ion								
Bay C6		9d	23-Mar-17 A	08-May-17				-						
A7630	C6 - Partal Roof + Up Stand Wall Construction for Access Shaft	9d	23-Mar-17 A	08-May-17	-		-			I C6 - Partal Roof + Up		tion for Access Shaft		
A7050		Su	20-1vid1-17 A	00-1vidy-17		1	1		1					

中國連架工程(香港) 有限公司 CHINA STATE CONSTRUCTION ENGRG. (HONG KONG) LTD.	 Actual Work Remaining Work Critical Remaining Work Milestone 	Page 3 of 8 Contract No. HY/2010/08: Central - Wanchai Bypass Tunnel +(Slip Road 8 Section) - 3 Months Rolling Progamme	Date 20-Apr-17	DWP-0

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aterial to -7	.0mPD arou	nd shaft D						
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		Core D-wall c	ut holes at F	anel V	V2D23 to	W2D34 (50	; hos.) (South F	ast)
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				Horiz	ontal cut	at Panel W/2	23 to W2D34	(50 n
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Vertic	cal cut at Sha	aft D (14 nos.)						
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<u> </u>	Horizon	tal cut at Shaf	t D (14 nos.			1	1	
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		i	Rem	ovese	eawall blo	ocks at Bay Z	4-22 to Bay 23	3 (741 i
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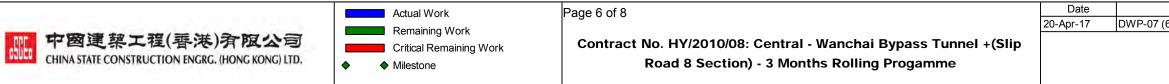
		Duration			2017 Apr May Jun	Jul
Egress Passage -	- EP01	31d	13-Mar-17 A	24-Apr-17 A		
Bay C1		31d	13-Mar-17 A	14-Apr-17 A		
A7690	C1 - EP01 Wall Construction	9d	13-Mar-17 A	30-Mar-17 A	Nall Construction	
A7700	C1 - EP01 Roof Construction	8d	13-Mar-17 A	30-Mar-17 A	Roof Construction	
A8010	C1 - Dismantle Scaffolding of EP01 Roof Slab - 10 days Curing	14d	31-Mar-17 A	14-Apr-17 A	C1 - Dismantle Scaffolding of EP01 Roof Slab - 10 days Curing	
Bay C2		31d	13-Mar-17 A	14-Apr-17 A		
A7710	C2 - EP01 Wall Construction	9d	13-Mar-17 A	30-Mar-17 A	Nall Construction	
A7720	C2 - EP01 Roof Construction	8d	13-Mar-17 A	30-Mar-17 A	Roof Construction	
A8020	C2 - Dismantle Scaffolding of EP01 Roof Slab - 10 days Curing	14d	31-Mar-17 A	14-Apr-17 A	C2 - Dismantle Scaffolding of EP01 Roof Slab - 10 days Curing	
Bay C3		31d	20-Mar-17 A	24-Apr-17 A		
A7730	C3 - EP01 Wall Construction	9d	20-Mar-17 A	05-Apr-17 A	C3 - EP01 Wall Construction	
A7740	C3 - EP01 Roof Construction	8d	20-Mar-17 A	05-Apr-17 A	C3 - EP01 Roof Constructi <mark>o</mark> n	
A8030	C3 - Dismantle Scaffolding of EP01 Roof Slab - 10 days Curing	14d	06-Apr-17 A	24-Apr-17 A	C3 - Dismantle Scaffolding of EP01 Roof Slab - 10 days Curing	
Bay C4		31d	20-Mar-17 A	24-Apr-17 A		
A7750	C4 - EP01 Wall Construction	9d	20-Mar-17 A	05-Apr-17 A	C4 - EP01 Wall Construction	
A7760	C4 - EP01 Roof Construction	8d	20-Mar-17 A	05-Apr-17 A	C4 - EP01 Roof Construction	
A8040	C4 - Dismantle Scaffolding of EP01 Roof Slab - 10 days Curing	14d	06-Apr-17 A	24-Apr-17 A	C4 - Dismantle Scaffolding of EP01 Roof Slab - 10 days Curing	
Jtility Trough		27d	20-Apr-17	16-May-17		
Bay C1			20-Apr-17	05-May-17		
A7790	RHS / C1 - Backing Concrete	4d	20-Apr-17	23-Apr-17	RHS / C1 - Backing Concrete	
A7800	RHS / C1 - Profile Barrier	4d	24-Apr-17	27-Apr-17	RHS / C1 - Profile Barrier	
A7770	LHS / C1 - Backing Concrete	4d	28-Apr-17	01-May-17	LHS / C1 - Backing Concrete	
A7780	LHS / C1 - Profile Barrier	4d	02-May-17	05-May-17	LHS / C1 - Profile Barrier	
Bay C2		16d	20-Apr-17	05-May-17		
A7830	RHS / C2 - Backing Concrete	4d	20-Apr-17	23-Apr-17	RHS / C2 - Backing Concrete	
A7840	RHS / C2 - Profile Barrier	4d 4d	20-Apr-17 24-Apr-17	27-Apr-17	RHS / C2 - Profile Barrier	
A7810	LHS / C2 - Backing Concrete	4d	28-Apr-17	01-May-17	LHS / C2 - Hollie Barlier	
A7810	LHS / C2 - Backing Concrete	40 4d	02-May-17	05-May-17	LHS / C2 - Packing Conclete	
				05-May-17		
Bay C3	PUID / CO. Partice Connects		20-Apr-17			
A7870	RHS / C3 - Backing Concrete	4d	20-Apr-17	23-Apr-17	RHS / C3- Backing Concrete	
A7880	RHS / C3 - Profile Barrier	4d	24-Apr-17	27-Apr-17	RHS / C3 - Profile Barrier	
A7850	LHS / C3 - Backing Concrete	4d	28-Apr-17	01-May-17	LHS / C3 - Backing Concrete	
A7860	LHS / C3 - Profile Barrier	4d	02-May-17	05-May-17	LHS / C3 - Profile Barrier	
Bay C4		16d	20-Apr-17	05-May-17		
A7910	RHS / C4 - Backing Concrete	4d	20-Apr-17	23-Apr-17	RHS / C4- Backing Concrete	
A7920	RHS / C4 - Profile Barrier	4d	24-Apr-17	27-Apr-17	RHS / C4 - Profile Barrier	
A7890	LHS / C4 - Backing Concrete	4d	28-Apr-17	01-May-17	LHS / C4 - Backing Concrete	
A7900	LHS / C4 - Profile Barrier	4d	02-May-17	05-May-17	LHS / C4 - Profile Barrier	
Bay C5		16d	01-May-17	16-May-17		
A7950	RHS / C5 - Backing Concrete	4d	01-May-17	04-May-17	RHS / C5 - Backing Concrete	
A7960	RHS / C5 - Profile Barrier	4d	05-May-17	08-May-17	RHS / C5 - Profile Barrier	
A7930	LHS / C5 - Backing Concrete	4d	09-May-17	12-May-17	LHS / C5 - Backing Concrete	
A7940	LHS / C5 - Profile Barrier	4d	13-May-17	16-May-17	LHS / C5 - Profile Barrier	
R8 (Zone B) - Ch.	.385.000 to Ch.317.500 - (Inside Victoria Park to Tunnel Portal)	77d	20-Apr-17	05-Jul-17		
	Actu	al Work		Page 4	f 8 Date Revision Chec	ked Ap
	Rem	aining Work			20-Apr-17 DWP-07 (6) - 3 Months Rolling FS	TL
中國: CHINA ST		al Remaining		Co	ract No. HY/2010/08: Central - Wanchai Bypass Tunnel +(Slip	

D Activity Name	Original Duration	Start	Finish									2017			
SR8 (Zone B) Tunnel - ELS / CCT / BF Works (7 Bays Ch. 385.000 to Ch.317.500)	77d	20-Apr-17	05-Jul-17		A	pr	<u> </u>				May			Jun	-
Portal Structure	77d	20-Apr-17	05-Jul-17				-								+
OHVD	43d	20-Apr-17	01-Jun-17		-					- - - - -					+
Bay B1 + B2 (CH338.625 to CH368)	43d	20-Apr-17	01-Jun-17												+
SR8 ZB 1390 Zone B - OHVD - Erect Scaffolding & Soffit Formwork	6d	20-Apr-17	25-Apr-17					Zone B	- OHVD - F	rect Scaffoldi	ng & Soffit Formwork				
SR8 ZB 1400 Zone B - Redrill & Install Rebar on Soffit of Roof Slab	10d	26-Apr-17	05-May-17	_							rill & Install Rebar on Soffit	of Roof Slab			
SR8 ZB 1420 Zone B - OHVD - Rebar Fixing for Slab & Hanger Wall of OHVD	4d	06-May-17	10-May-17							1	e B - OHVD - Rebar Fixing	: :	nger Wall of O		
SR8 ZB 1430 Zone B - OHVD Erect Hanger Wall Formwork for OHVD	2d	11-May-17	12-May-17		1				-	:	Zone B - OHVD Erect Har	1	: :		
SR8 ZB 1440 Zone B - OHVD Place Concrete to OHVD Slab & Wall	1d	13-May-17	13-May-17								Zone B - OHVD Place C	Ũ			
SR8_ZB_1450 Zone B - OHVD Curing Period for OHVD Slab	10d	15-May-17	25-May-17							• • •	1	one B - OHVD	: :		
SR8 ZB 1460 Zone B - OHVD Remove Soffit Formwork & Scaffolding	5d	26-May-17	01-Jun-17	_						1 1 1 1	2		ne B - OHVD		
					- - - -					1 1 1	_	20		Remove Sc	
Utility Trough	28d	02-Jun-17	05-Jul-17		- - -					- - - -					-
Left Hand Side	21d	10-Jun-17	05-Jul-17												
SR8_ZB_1570 Zone B - U trough (LHS) Bay 3	7d	10-Jun-17	17-Jun-17												
SR8_ZB_1560 Zone B - U trough (LHS) Bay 2	7d	19-Jun-17	26-Jun-17												
SR8_ZB_1550 Zone B - U trough (LHS) Bay 1	7d	27-Jun-17	05-Jul-17		 	-				1 1 1 1					+
Right Hand Side	21d	02-Jun-17	26-Jun-17							1 1 1 1					
SR8_ZB_1600 Zone B - U trough (RHS) Bay 3	7d	02-Jun-17	09-Jun-17			-				1 1 1 1			Z	Zone B - U ti	ou
SR8_ZB_1590 Zone B - U trough (RHS) Bay 2	7d	10-Jun-17	17-Jun-17	_									-		
SR8_ZB_1580 Zone B - U trough (RHS) Bay 1	7d	19-Jun-17	26-Jun-17		- - -					1 1 1 1					
Pump House	52d	20-Apr-17	10-Jun-17												
Remining Works inside Pump Sump E	52d	20-Apr-17	10-Jun-17												
SR8_ZB_1890 Steel Works Installation inside Pump Sump E	45d	20-Apr-17	03-Jun-17										Steel Works	Installation	ins
SR8_ZB_1900 Installation Manhole Covers for Pump Sump E	7d	04-Jun-17	10-Jun-17							1 1 1 1				Installation	Ma
R8 (Zone A) - Ch 317.500 to Ch 210.000 - U-Structure & Slab (Victoria Park)	28d	22-Jan-17 A	26-May-17												
RC CCT & Backfill Ch317.5000 to Ch240.000	28d	22-Jan-17 A	26-May-17							1 1 1 1					
Structure	28d	22-Jan-17 A	26-May-17												
Utility Through	28d	22-Jan-17 A	26-May-17												
SR8_ZA_1260 Zone A - Utility Trough for Zone A (CH240 to CH317)	28d	22-Jan-17 A	26-May-17		1 							Zone A - Utility	Trough for Zo	one A (CH24	ŧộ t
rks in KD9 (Include Re-provisioning Works of KD4,KD5)	299d	12-Dec-16 A	11-Sep-17							1					
kternal Works Under KD9	299d	12-Dec-16 A	11-Sep-17		1										1
sing Fung St - RW & Subway Extension & Toe Wall at Hing Fat St	191d	23-Jan-17 A	01-Aug-17		1					- - - - - -					-
Retaining Wall + Toe Wall at Hing Fat Street	191d	23-Jan-17 A	01-Aug-17												1
Retaining Wall RW8D	100d	23-Jan-17 A	02-May-17		1					1 1 1 1					-
Bay 3(10m) to Bay 4(10m)	6d	23-Jan-17 A	23-Mar-17 A			-				1 1 1 1					1
RW8D_1220 RW8D (Bay 3 to Bay 4) - Sub-soil &Backfilling to Base Slab	6d	23-Jan-17 A	23-Mar-17 A	- Sub-	soil &Backfillir	ig to Ba	se Sla	þ							
Works along RW8D During Reopen Hing Fat Street Footpath to Public	33d	01-Mar-17 A	02-May-17		1 1 1					1 1 1 1					-
A4910 Close slow lane of HFS to cut coping of RW8D and subway	20d	01-Mar-17 A	26-Apr-17 A			:		Close s	low lane of	HFS to cut co	ping of RW8D and subway	y			
A4920 Lay temp bituminous pavement for road diversion (from RW8D to Subway)	3d	20-Apr-17	22-Apr-17					Lay temp bitu	ninous pav	ement for roa	d diversion (from RW8D to	Subway)			
A4940 Install steel vehicle parapet on RW8C, subway and RW8D	10d	20-Apr-17	02-May-17	-					Instal	steel vehicle	parapet on RW8C, subwa	y and RW8D			
Retaining Walls RW8E, Sign Footings & Sewer Pipe (SK266G, SK539C, SK375B)	135d	20-Mar-17 A	01-Aug-17		- - -										
A4615 Re-ocuupy Hing Fat Street Footpath as site Area	1d	20-Mar-17 A	20-Mar-17 A	Footpa	th as site Area	a	L								
A4620 Excavate and lay blinding layer of RW8E (Including ELS)	14d	19-Apr-17 A	08-May-17	-						Excava	te and lay blinding layer of I	RW8E (Includ	ing ELS)		
A4880 DS16 - Sign Frame Installation	14d	20-Apr-17	03-May-17	_					DS1	6 - Sign Fran	ne Installation				

	Actual Work	Page 5 of 8	Date 20-Apr-17	DWP-07
中國連禁工程(香港)有限公司 CHINA STATE CONSTRUCTION ENGRG. (HONG KONG) LTD.	 Remaining Work Critical Remaining Work Milestone 	Contract No. HY/2010/08: Central - Wanchai Bypass Tunnel +(Slip Road 8 Section) - 3 Months Rolling Progamme		•

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				Zo	ne B - U tro	ugh	(LHS) Bay 1	
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tro	ough (RHS) Ba	ay 3						
	Zone B - U I	rough (RHS	5)	Bay 2				
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Activity ID	Activity Name	Original Duration		Finish	2017
A4650	MH2-70 to MH2-71(150 dia. foul sewer pipe)	12d	20-Apr-17	05-May-17	Apr May Jun MH2-70 to MH2-71(150 dia, foul sewer pipe) MH2-70 to MH2-71(150 dia, foul sewer pipe) MH2-70 to MH2-71(150 dia, foul sewer pipe)
A4630	Construction of RW8E and toe wall (2+1 bays, 32m long)	45d	09-May-17	30-Jun-17	
A4640	Backfill and subsoil drainage system behind RW8E	14d	03-Jul-17	18-Jul-17	
A4670	MH2-72 to MH2-73	12d	19-Jul-17	01-Aug-17	
	Pipe behind RW8C along Tsing Fung Street (SK547A)	42d	20-Apr-17	10-Jun-17	
A4540	Modified MH shaft A2 at extg box culvert near MH TFS-04A	14d	20-Apr-17*	08-May-17	Modified MH shaft A2 at extg box culvert near MH TFS-04A
			· ·	-	
A6410	MHTFS-06 to extg MHA3 (at slow lane of TFS)	14d	09-May-17	24-May-17	MHTFS-06 to extg MH A3 (at slow lane of TFS
A8050	MHTFS-05 to extg MH A3 (gully)	14d	25-May-17	10-Jun-17	MHTFS-05 to
	s at Victoria Park	75d	20-Apr-17	20-Jul-17	
A4570	Construction of 5m CCTV, AID, OHVD, TSG, luminance meter at verge inside VP	60d	20-Apr-17*	03-Jul-17	
A4580	All drawpits (ATC, E&M and lighting) and ductings at verge inside VP (SK375B)	60d	10-May-17	20-Jul-17	
Boundary Fe	nce, Type 2 Railing Footings & Fence Wall From RW8C to Zone B	242d	12-Dec-16 A	11-Sep-17	
A8070	Fence wall between BGO and Zone A (78.2m)	90d	12-Dec-16 A	03-Jul-17	
A4700	Construction of boundary fence from RW8C toe wall to 15m CCTV high mast (approx. 53m)	50d	19-Dec-16 A	20-May-17	Construction of boundary fence from RW8C toe wall to
A4710	Modification/ Re-construction of extg type 2 railing footing in front of RW8C (approx. 40m)	60d	10-Feb-17 A	01-Aug-17	
A4720	Construction of boundary fence from 15m CCTV high mast to Zone A at CH210 (approx. 50m)	50d	22-May-17	20-Jul-17	
A4730	Construction of boundary fence near nursery compound (approx. 167m, after completion of MH 2-73)	90d	27-May-17	11-Sep-17	
Other Storm,	Sewerage Pipe & Irrigation System in VP (SK336E, SK539D)	141d	21-Feb-17 A	07-Aug-17	
A4770	MH2-71 to TFS-06 via MH2-72 and MH 2-73 (300 dia. concrete pipe)	40d	21-Feb-17 A	26-May-17	MH2-71 to TFS-06 via MH2-72 and MH 2-
A4740	FMH-B01 to Extg 1-40 (5 MHs and 7 foul sewer PE pipeline)	90d	20-Apr-17	07-Aug-17	
A4970	Irrigation Main Laying	14d	27-May-17	09-Jun-17	Inrigation Main L
A4760	MHB (beside pump sump E) to MH2-70 (300 dia. stormwater pipeline)	14d	27-May-17	13-Jun-17	МНВ (b
A4980	Water Points Installation	14d	10-Jun-17	23-Jun-17	
Preparation V	Vorks before Implementation TTA at Central Median	141d	02-Feb-17 A	20-Jul-17	
A4795	Excavate to formation level and lay subbase, fix K1 kerb along TFS	14d	02-Feb-17 A	05-May-17	Excavate to formation level and lay subbase, fix K1 kerb along TFS
A4890	Laving Ducting Cross Access Ramp Down to Zone C SR8 Tunnel	60d	20-Apr-17	18-Jun-17	
A4930	Shifting Site Entrance 6A	4d	19-Jun-17	22-Jun-17	
A4950	Laying Ducting in New SR8 Approaching Island	14d	23-Jun-17	06-Jul-17	
A4950	Forming IsaInd Including Sub-base & Kerbing	140	07-Jul-17	20-Jul-17	
	affic for IEC,VP Rd & TF St & Seawall Reinstatement (KD9)	98d	27-Mar-17 A	13-Aug-17	
	raffic Back to Original Alignment	98d	27-Mar-17 A	13-Aug-17	
· · · · · · · · · · · · · · · · · · ·	Works - Backfill of Zone C to Top of Tunnel Structure	59d	27-Mar-17 A	16-Jun-17	
A5790	Waterproofing & Screeding to Roof	4d	27-Mar-17 A	14-May-17	
A5800	Load Transfer for King Post	6d	05-Apr-17 A	20-May-17	Load Transfer for King Post
A5820	Zone C - Bay C1 to C5 Backfill to Formation & Remove Struts SL1 to SL3 (Up to +2.5mPD)	44d	10-Apr-17 A	16-Jun-17	
A5780	Curing to Roof Slab of Zone C	3d	08-May-17	10-May-17	Curing to Roof Slab of Zone C
A5810	Make Good Box-out Left by King Post	2d	21-May-17	22-May-17	Make Good Box-out Left by King Post
East Bound	TTA - IEC East Bound, Victoria Park Road & Footpath along Sea Side	30d	17-Jun-17	16-Jul-17	
Stage 1 - IE	C (East Bound)	30d	17-Jun-17	16-Jul-17	
A5240	IEC/EB - Construct Footing of Sign Gantry & Wing Wall	17d	17-Jun-17	03-Jul-17	
A5260	IEC/EB - Backfill to Formation Level (Approx. 2.2mPD to +3.9mPD)	5d	17-Jun-17	21-Jun-17	
A5270	IEC/EB - Reconstruct Wing Wall of Abutment M (approx. 6m)	10d	17-Jun-17	26-Jun-17	
A5280	IEC/EB - Cast Central Median	21d	17-Jun-17	07-Jul-17	
A5310	IEC/EB - Remove Temporary Utilities Supports at IEC	3d	17-Jun-17	19-Jun-17	



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A32 A53 A32		Duration			Apr			Мау		2017		
A53 A32				00 J .:=		· · · · · · · · · · · · · · · · · ·					Jun	4
A32	20 IEC/EB Deinstate Existing Drainage System	7d	17-Jun-17	23-Jun-17								-
		14d	20-Jun-17	03-Jul-17								
	· · · · · ·	7d	24-Jun-17	30-Jun-17								
	90 IEC/EB - Street Lighting Cable Duct & Poles	3d	01-Jul-17	03-Jul-17								
A52		4d	04-Jul-17	07-Jul-17								
A53	IEC/EB - TOC of Street Lightings	2d	04-Jul-17	05-Jul-17								
A53	IEC/EB - Backfill Drainage Tranch Up to Formnation (+2.5mPd to +3.9mPD)	5d	04-Jul-17	08-Jul-17								
A53	40 IEC/EB - Laying Sub-base	2d	09-Jul-17	10-Jul-17								
A53	150 IEC/EB - Laying Asphlat Pavement	3d	11-Jul-17	13-Jul-17								
A53	60 IEC/EB - Road Mark & Traffic Signs	3d	14-Jul-17	16-Jul-17								
West	Bound - IEC West Bound & Tsing Fung Street	58d	17-Jun-17	13-Aug-17								
Stag	e 1 - IEC (West Bound)	30d	17-Jun-17	16-Jul-17								
A56	90 IEC/WB - Cut pipe pile - 1 week	7d	17-Jun-17	23-Jun-17	7							ļ
A57	10 IEC/WB - Removal of pedestrian decking	11d	17-Jun-17	27-Jun-17								ļ
A37	85 IEC/WB - Reconstruct Wing Wall of Abutment M (approx. 6m)	10d	17-Jun-17	26-Jun-17								Ļ
A57	00 IEC/WB - Cut sheetpile - 1 week	7d	24-Jun-17	30-Jun-17								
A57	20 IEC/WB - Remove temporary utilities support 3 days	3d	28-Jun-17	30-Jun-17								
A57	30 IEC/WB - Backfill up to Formation under Asphalt (from +2.5mPD to +3.9mPD) 5 days	5d	01-Jul-17	05-Jul-17								
A57	40 IEC/WB - Subbase Laying 2 days	2d	06-Jul-17	07-Jul-17								
A57	IEC/WB - Asphalt (Road Base, Base Course, Wearing Course) 5 days	5d	08-Jul-17	12-Jul-17								
A57	60 IEC/WB - Road Marking/Traffic Sign 3 days	3d	13-Jul-17	15-Jul-17								
A58	IEC/WB - Implement TTM	1d	16-Jul-17	16-Jul-17								
Stag	e 2 - Tsing Fung Street	28d	17-Jul-17	13-Aug-17								-
A58	50 Decking /Footing Removal - 2 weeks	14d	17-Jul-17	30-Jul-17								
A58	180 Light Weight Conc. Ramp Rem. 4 weeks	28d	17-Jul-17	13-Aug-17	_							
A58	90 Trench Excavation for Towngas - 4 weeks	28d	17-Jul-17	13-Aug-17	_							
Reinst	atement Existing Slopping & Vertical Sea Wall	55d	17-Jun-17	10-Aug-17								+
Major	Reinstatement Works for Seawall Reinstatement	55d	17-Jun-17	10-Aug-17								+
Stag	e 1 - Removal of Remaining Pipe Pile Wall, Sheet Pile Wall & D-wall	55d	17-Jun-17	10-Aug-17								+
A70	Backfill upto +2.5mPD at all bay of SR8	1d	17-Jun-17	17-Jun-17								
A70	40 Cut pipe pile wall at A1 - A14	14d	18-Jun-17	01-Jul-17								1
A70		40d	02-Jul-17	10-Aug-17								
	in Victoria Park (KD4, KD5, KD9)	184d	20-Jan-17 A	06-Sep-17								+
	ovisioning Works	184d	20-Jan-17 A	06-Sep-17								
	ery Compound	184d	20-Jan-17 A	06-Sep-17								-
	mission	124d	20-Jan-17 A	27-Jun-17								+
	WF Submission	99d	01-Feb-17A									-
	iterial	99d	01-Feb-17 A	12-May-17								
	P_NC_1060 ABWF Issue P.O. / Manufacturing / Fabrication	14d	01-Feb-17 A	18-Apr-17 A		ABWF Issue P.O. / Ma	anufacturing / Fab	rication				
	P_NC_1070 ABWF Materail Delivery	21d	19-Apr-17 A	12-May-17					erail Delivery			
	op Drawing	14d	03-Feb-17 A	02-Jun-17								+
	P_NC_1090 ABWF Shop Drawing - ER Review and Approval	140 14d	03-Feb-17 A							ABWF Shop	Drawing E	- - -
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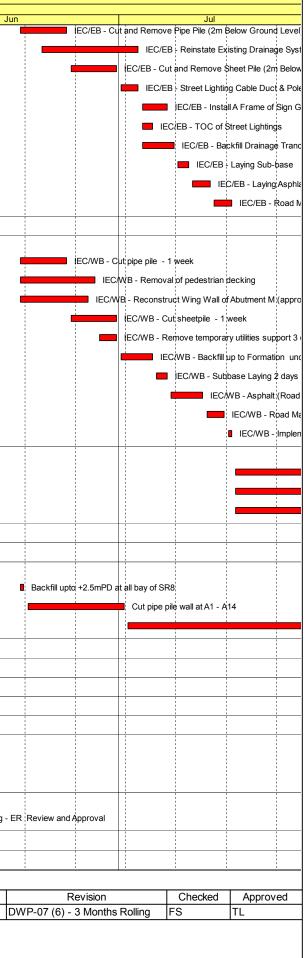
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Contract No. HY/2010/08: Central - Wanchai Bypass Tunnel +(Slip
Road 8 Section) - 3 Months Rolling Progamme



Activity	ID	Activity Name	Original Duration	Start	Finish	2017
			Duration			Apr May Jun
	VP_NC_1140	E&M Issue P.O. / Manufacturing / Fabrication	15d	20-Jan-17 A	22-May-17	E&M Issue P.O. / Manufacturing / Fabrication
	VP_NC_1150	E&M Materail Delivery	30d	23-May-17	27-Jun-17	
	Shop Drawing		30d	20-Apr-17	26-May-17	
	VP_NC_1170	E&M Shop Drawing - ER Review and Approval	30d	20-Apr-17	26-May-17	E&M Shop Drawing - ER Review and Appro
	Nursery compou	ind	125d	09-Mar-17 A	06-Sep-17	
	A4410	Concreting of two concrete plinths, 150 thick curbs and 1450H parapet wall above roof slab	7d	09-Mar-17 A	30-Mar-17 A	g of two concrete plinths, 15 <mark>0</mark> thick curbs and 1450H parapet wall above roof slab
	A4420	ABWF, Plumbering Works, waterproofing and E&M works	60d	05-Apr-17 A	06-Sep-17	
K	(D11, KD12, KD13	, KD18 Establishment Works for Landscape Softworks	1087d	23-Feb-15 A	09-Feb-18	
	KD11 - Section 7A	: Portion XIV & XV (Victoria Park Open Space)	885d	23-Feb-15 A	09-Feb-18	
	EW_1000	Establishment Works - for Landscape Softworks and transplanted trees in Portion XIV &	901d	23-Feb-15 A	09-Feb-18	
	KD12 - Section 7B	2: Portion VI & VII (Reprov. Bowling Green Area)	177d	03-Dec-15 A	20-Apr-17	
	EW_1010	Establishment Works - for Landscape Softworks and transplanted trees in Portion VI & VII	177d	03-Dec-15 A	20-Apr-17	Establishment Works - for Landscape Softworks and transplanted trees in Portion VI & VII
K	(D10 - Preservatio	n and Protection of Trees	1088d	21-Mar-13 A	20-Apr-17	
	PPT_0000	Preservation and Protection of Existing Trees	1088d	21-Mar-13 A	20-Apr-17	Preservation and Protection of Existing Trees
K	(D15 & KD8 - Moo	ring Components Upkeep (CBTS and ATS)	980d	15-May-14 A	20-Apr-17	
	MAR_3020	Mooring Upkeep at Portion X(10) & XVI(16) - CBTS	979d	15-May-14 A	20-Apr-17	I Mooring Upkeep at Portion X(10) & XVI(16) - CBTS
v	Vorks for Public W	/orks Regional Laboratory (North Lantau) - KD1,KD16,KD17)	1301d	19-Jul-13 A	21-Nov-17	
	KD17 - Maintenan	ce and Upkeep of New PWRL (Portion XVII)	1301d	19-Jul-13 A	21-Nov-17	
	PWRL_1050	Maintenance/ Upkeep of New PWRL	1301d	19-Jul-13 A	21-Nov-17	





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20-Apr-17 Contract No. HY/2010/08: Central - Wanchai Bypass Tunnel +(Slip Road 8 Section) - 3 Months Rolling Progamme

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