

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 (December 2015 – February 2016)

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 AND FEP-07/356/2009

QUARTERLY ENVIRONMENTAL MONITORING AND AUDIT REPORT

- DECEMBER 2015 TO FEBRUARY 2016 -

CLIENTS:

Civil Engineering and Development Department

and

Highways Department

PREPARED BY:

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DATE:

30 March 2016



Ref.: AACWBIECEM00_0_7914L.16.docx

30 March 2016

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 (December 2015 to February 2016) for EP-356/2009, FEP-02/356/2009. FEP-03/356/2009, FEP-04/356/2009, FEP-06/356/2009 and FEP-07/356/2009

Reference is made to the Environmental Team's submission of the captioned Quarterly Environmental Monitoring and Audit (EM&A) Report for December 2015 to February 2016 received by e-mail on 30 March 2016.

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.

C.C.

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Lam Geotechnics Limited

EXECUTIVE SUMMARY

This is the Quarterly Environmental Monitoring and Audit (EM&A) Report – December 2015 to February 2016 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 28th November 2015 to 26th February 2016.

ii. The implementation of the Environmental Monitoring and Audit Programme for the Wan Chai Development phase II and Central-Wan Chai Bypass Project has been taken over by the Lam Geotechnics Limited (LGL) under Contract HK/2015/01 – Wan Chai Development Phase II and Central Wanchai Bypass – Sampling, Field Measurement and Testing Works (Stage 3) from 27 December 2015 in continuation of the previous Environmental Team employed under Contact HK/2011/07 – Wan Chai Development Phase II and Central Wanchai Bypass – Sampling, Field Measurement and Testing Works (Stage 2).

Construction Activities for the Reported Period

iii. 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

December 2015	January 2016	February 2016
• Nil	• Nil	• Nil

iv. 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

	December 2015	January 2016	February 2016
•	Reclamation works was	• Nil	Placing berm block in front
	completed		of seawall
			Inspection / Trimming of
			rockfill profile in front of
			seawall

v. 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 IIIPrincipal Work Activities for Contract no. HY/2009/15

	December 2015		January 2016		February 2016
•	Reinstatement of vertical	•	Reinstatement of vertical	•	Reinstatement of vertical
	seawall at TPCWAE		seawall at TPCWAE		seawall at TPCWAE

vi. 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

ſ	December 2015	January 2016	February 2016
ſ	• Nil	• Nil	• Nil

vii. 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

	December 2015	r	Jonuary 2016		February 2016
	December 2013		January 2016		Febluary 2016
•	Construction of culvert	•	Construction of culvert	•	Construction of culvert
•	Construction of dry dock	•	Construction of dry dock	•	Construction of dry dock
•	Trimming of rock	•	Trimming of rock bedding	•	Trimming of rock bedding
	bedding			•	Installation of seawall
					blocks

viii. 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

December 2015	January 2016	February 2016
Diversion pipe	Diversion pipe	Diversion pipe
maintenance	maintenance	maintenance

Noise Monitoring

- 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.
- x. Four limit level exceedances were recorded at noise monitoring station M1a Habour Road Sports Center on 01, 08, 15 and 23 December 2015 in December reporting month. The exceedances were concluded as non-project related.
- xi. Two limit level exceedances were recorded at noise monitoring station M6 HK Baptist Church Henrietta Secondary School on 11 and 16 December 2015 in December reporting month. The exceedances were concluded as non-project related.
- xii. Two limit level exceedances were recorded at noise monitoring station M1a Habour Road Sports Center on 12 and 19 January 2016 in January reporting month. The exceedances were concluded as non-project related.
- xiii. Two limit level exceedances were recorded at noise monitoring station M1a Habour Road Sports Center on 16 and 23 February 2016 in February reporting month. The exceedances were concluded as non-project related.



Real-time Noise Monitoring

- xiv. 24-hour real time noise monitoring was conducted at RTN2a Hong Kong Electric Centre. No project related limit level exceedance was recorded in December reporting month.
- xv. As the land-based piling and filling works under DP3 at Tin Hau had been completed on 3 September 2012 and the marine piling works at North Point has been completed on 4 March 2013 as confirmed by RSS, the reporting of real-time noise monitoring results for RTN1 -FEHD Hong Kong Transport Section Whitfield Depot and RTN2a – Hong Kong Electric Centre was excluded from EP-356/2009 from November 2012 and January 2016 respectively while the reporting of the real-time noise monitoring result under EP-364/2009/D for the above monitoring stations would be continued

Air Quality Monitoring

Due to interruption of electricity supply, the 24hr TSP was rescheduled as follows:
 24hr TSP at CMA5b was rescheduled from 2 December 2015 to 3 December 2015 in December reporting month.
 24hr TSP at CMA5b was rescheduled from 9 and 21 January 2016 to 11 and 22 January

2016 respectively in January reporting month. 24hr TSP at CMA6a was rescheduled from 27 January 2016 to 28 January 2016 in February reporting month.

24hr TSP at CMA1b was rescheduled from 1 and 11 February 2016 to 2 and 12 February 2016 respectively in February reporting month.

- ii. No action or limit level exceedance for TSP monitoring was recorded in this reporting quarter.
- iii. The location ID of air monitoring station CMA1b was updated as Oil Street Site Office in April 2013.
- iv. 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.
- v. 1hr and 24hr TSP monitoring were conducted at CMA1b, CMA2a, CMA3a, CMA4a, CMA5b and CMA6a in the reporting period.

Water Quality Monitoring

- vi. Due to blockage of access to Water Quality Monitoring Station C7 by obstruction of electric circuit box, water quality monitoring at water quality monitoring station C7 was cancelled on 5 February 2016 during flood tide.
- vii. 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.
- viii. 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.
- ix. 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.



- There were 6 action level and 7 limit level of turbidity exceedances, and 1 action level and no limit level of suspended solid exceedances recorded in December reporting month. Investigation found that the turbidity exceedances and suspended solid exceedances recorded in December reporting month were not related to Project works.
- xi. There were 12 action level and 1 limit level of turbidity exceedances recorded in January reporting month. Investigation found that the turbidity exceedances recorded in January reporting month were not related to Project works.
- xii. There were 24 action level and 11 limit level of turbidity exceedances recorded in February reporting month. Investigation found that the turbidity exceedances recorded in February reporting month were not related to Project works.
- xiii. Enhanced DO monitoring at 2 monitoring stations in Causeway Bay Typhoon Shelter and Ex-Public Cargo Works Area was conducted three days per week during the reporting period.
- xiv. There was no action level and 1 limit level exceedances of enhanced dissolved oxygen recorded in December reporting month. Investigation found that the exceedance was not related to Project works.
- xv. There was no action level and 2 limit level exceedances recorded for enhanced dissolved oxygen monitoring in January reporting month. Investigation found that the exceedance was not related to Project works.
- xvi. There was no action level and 2 limit level exceedances recorded for enhanced dissolved oxygen monitoring in February reporting month. Investigation found that the exceedance was not related to Project works.

Complaints, Notifications of Summons and Successful Prosecutions

- xvii. No environmental complaint was received in this reporting quarter.
- xviii. Referring to the complaint case regarding the illegal disposal of construction waste referred by EPD was received by ET on 17 November 2015, the updated 2nd and 3rd interim investigation report were submitted to the EPD on 17 December 2015 and 31 December 2015 respectively. In response to the complaint concern, additional water quality monitoring and additional site inspections have been conducted by the ET and the investigation findings were included in the interim investigation reports separately submitted to the EPD. In addition, the ET and IEC have conducted checking on the waste disposal records and site construction records with the CWB RSS team to confirm the key construction activities during the concerned period and the quantities of inert C&D material disposed. Upon further review on relevant records and follow up inspections on the implementation of site measures, the final investigation would be issued.



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 and FEP-07/356/2009 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 28 November 2015 to 27 February 2016.

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

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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.

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	Wan Chai Development Phase II – Central –Wanchai Bypass at Hong Kong	DP3, DP6	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		(Completed)
04/HY/2006	Reconstruction of Bus Terminus near Man Yiu Street and Man Kwong Street	DP1	September 2010
	Man The 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 West	DP1,DP2, DP3	5 March 2013
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



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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 *Figure 2.2*. 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	
		Engineer Manager	Mr. Terry Wong	9757 9846	
		Construction Manager	Mr. Wyman Wong	9627 2467	
		Construction Manager	Mr. Kenneth Chan	9160 3850	-
		Environmental Officer	Ms. Wendy Ng	9803 0057	
		Assistant Environmental Engineer	Miss. Connie Chan	6157 7057	
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.	Engineering (HK) Ltd.	Site Manager	Y Huo	3557 6368	
		Contractor's Representative	Rex Lau	3557 6405	
		Contractor's Representative	Gene Cheung	3557 6395	
		Environmental Officer	Andy Mak	3557 6347	
Chun Wo -	Contractor	Project Manager	Rayland Lee	3758 6788	2570 8013

 Table 2.3
 Contact Details of Key Personnel



Party	Role	Post	Name	Contact No.	Contact Fax
CRGL - MBEC_Joint	under Contract no. HY/2009/19	Site Agent	David Lau	3758 8879	
Venture		Environmental Manager /	Eria Eong	6191 9337	
		Environmental Officer	Eric Fong	0191 9337	
		Construction Manager (Marine)	M.H. Isa	9884 0810	
		Construction Manager (Land)	Andy Chan	9879 4325	
		Construction Manager (Land)	Bear Ding	6483 6198	
		Operation Manager (Land)	Yung Kwok Wah	9834 1010	
China State-	Contractor	Project Director	C. N. Lai	9106 5806	2877 1522
Leader JV	under Contract no. HK/2012/08	Project Manager	Eddie Chung	9189 8118	
		Site Agent	Keith Tse	9037 1839	
		Environmental Officer	James Ma	9130 9549	
		Environmental Supervisor	Y. L. Ho	9856 5669	
China State	Contractor	Project Director	Chris Leung	3467 4299	2566 8061
	under Contract no. HY/2010/08	Project Manager	Chan Ying Lun	3418 3001	
		Site Agent	Dave Chan	3467 4277	
		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	34652888	34652899
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

ſ	December 2015	January 2016	February 2016
	• 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 A	Activities for Contract no. HK/2	2009/02
Decen	ber 2015	January 2016	Febru

	December 2015	January 2016	February 2016
•	Reclamation works was	• Nil	 Placing berm block in front
	completed		of seawall
			Inspection / Trimming of
			rockfill profile in front of
			seawall

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

	December 2015		January 2016		February 2016
•	Reinstatement of vertical	•	Reinstatement of vertical	•	Reinstatement of vertical
	seawall at TPCWAE		seawall at TPCWAE		seawall at TPCWAE

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

December 2015	January 2016	February 2016
• 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

	December 2015		January 2016		February 2016
•	Construction of culvert	•	Construction of culvert	•	Construction of culvert
•	Construction of dry dock	•	Construction of dry dock	•	Construction of dry dock
•	Trimming of rock	•	Trimming of rock bedding	•	Trimming of rock bedding
	bedding			•	Installation of seawall
					blocks

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

	December 2015	January 2016	February 2016
• D	iversion pipe	Diversion pipe	Diversion pipe
m	naintenance	maintenance	maintenance

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. <u>Appendix 3.1</u> shows the established Action/Limit Levels for the monitoring works.

Station	Description
M1a	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

REAL TIME NOISE MONITORING STATIONS

3.1.2. As the land-based piling and filling works under DP3 at Tin Hau had been completed on 3 September 2012 and the marine piling works at North Point has been completed on 4 March 2013 as confirmed by RSS, the reporting of real-time noise monitoring results for RTN1 -FEHD Hong Kong Transport Section Whitfield Depot and RTN2a – Hong Kong Electric Centre was excluded from EP-356/2009 from November 2012 and January 2016 respectively while the reporting of the real-time noise monitoring result under EP-364/2009/D for the above monitoring stations would be continued.

NOISE MONITORING PARAMETERS, FREQUENCY AND DURATION

- 3.1.3. 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.
- 3.1.4. 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.



- 3.1.5. 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.
- 3.1.6. 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

- 3.1.7. 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.
- 3.1.8. 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 Intake			
WSD19	Sheung Wan	833415.0	816771.0
Cooling Water Intake			
C1 HKCEC Extension 835885.6		835885.6	816223.0

 Table 3.3 Marine Water Quality Stations for Water Quality Monitoring



Station Ref.	Location	Easting	Northing
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
P5	Government Buildings (Wanchai Tower / Revenue Tower / Immigration Tower)	835895.2	816215.2
Cooling Water Intake / WSD Salt Water Intake			
RW21-P789	Great Eagle Centre/ Sun Hung Kai Centre/ WSD Wanchai salt water intake 836268.0 81602		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 March 2014
- WSD9 and WSD17 water quality monitoring station was temporarily suspended since 8 September 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

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 Qualit	y Monitoring Freq	quency 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-PCWAE was temporarily suspended from 31 August 2015 with respect to seawall reinstatement works and formation of active works area, to be resumed upon completion of seawall reinstatement works
- 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	s. HK/2009/01 and HK/2009/02
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Station	Description	
M1a	Harbour Road Sports Centre	

- 4.1.2. Four limit level exceedances were recorded at M1a- Harbour Road Sports Centre on 01, 08, 15 and 23 December 2015 in December reporting month.
- 4.1.3. Breaking works at Ex- Wan Chai Swimming Pool (adjacent to Habour Road Sports Centre directly opposite to the monitoring station) under non WDII-CWB Contractor was observed as the major noise contribution during monitoring on 01, 08, 15 and 23 December 2015. As such, the exceedance was considered as non-Project related.
- 4.1.4. Two limit level exceedances were recorded at M1a- Harbour Road Sports Centre on 12 and 19 January 2016 in October reporting month.
- 4.1.5. Breaking and piling works at Ex- Wan Chai Swimming Pool (adjacent to Habour Road Sports Centre directly opposite to the monitoring station) under non WDII-CWB Contractor was observed as the major noise contribution during monitoring on 12 and 19 January 2016. As such, the exceedance was considered as non-Project related.
- 4.1.6. Two limit level exceedances were recorded at M1a- Harbour Road Sports Centre on 16 and 23 February 2016 in February reporting month.



4.1.7. Piling works and operation of multiple air compressors at Ex- Wan Chai Swimming Pool (adjacent to Habour Road Sports Centre directly opposite to the monitoring station) under non WDII-CWB Contractor was observed as the major noise contribution during monitoring on 16 and 23 February 2016. As such, the exceedance was considered as non-Project related.

Noise monitoring results measured in this reporting period are reviewed and summarized. Details of graphical presentation can be referred in *Appendix 4.1*.

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

4.1.8. 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.

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

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

4.1.9. No action or limit level exceedance was recorded in this report quarter.

Noise monitoring results measured in this reporting period are reviewed and summarized. Details of graphical presentation can be referred in *Appendix 4.1*.

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

- 4.1.10. 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.
- 4.1.11. 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
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Station	Description	
M4b	Victoria Centre	
M5b	City Garden	
M6	HK Baptist Church Henrietta Secondary School	

4.1.12. Two limit level exceedances were recorded at monitoring station M6 - HK Baptist Church Henrietta Secondary School on 11 and 16 December 2015 in December reporting month.



- **4.1.13.** Major traffic noise observed during monitoring was considered as the major noise contribution. As such, the limit level exceedances were concluded as non-project related.
- 4.1.14. No action or limit level exceedance was recorded in January reporting month.
- 4.1.15. No action or limit level exceedance was recorded in February reporting month.
- 4.1.16. Noise monitoring results measured in this reporting period are reviewed and summarized. Details of graphical presentation can be referred in *Appendix 4.1*.

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

4.1.17. 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	

- 4.1.18. No action or limit level exceedance was recorded in the reporting quarter.
- 4.1.19. 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. Real Time Noise Monitoring Results

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

- 4.2.1 As the land-based piling and filling works- DP3 at Tin Hau had been completed on 3 September 2012 and confirmed by RSS, the real-time noise monitoring results at FEHD Hong Kong Transport Section Whitfield Depot was excluded under EP-356/2009 since 28 November 2012.
- 4.2.2 The real-time noise monitoring at RTN2-Oil Street Community Liaison Centre has been relocated to City Garden Electric Centre (RTN2a- Electric Centre) on 5 Oct 2012, which is a representative of noise sensitive receiver- City Garden. The baseline noise level of RTN2a will adopt the results derived from the baseline noise monitoring conducted in Electric Centre from 4 December 2009 to 17 December 2009.
- 4.2.3 The major work activities for Contract no. HY/2009/11 was confirmed substantial complete by RSS on 4 January 2012. The construction site was handed over to contractor HY/2009/19 on 31 December 2011 and the FEP-01/356/2009 was surrendered on 22 Oct 2012.



4.2.4 Real-time noise monitoring at FEHD Hong Kong Transport Section Whitfield Depot commenced external wall renovation since 1 June 2012

District	Station	Description
North Point	RTN2a	Electric Centre

 Table 4.5
 Real Time Noise Monitoring Station for Contract no. HY/2009/19

- Real time noise monitoring results and graphical presentation during night time period are for information only.
- RTN2 had been relocated to RTN2a since 5 Oct 2012
- RTN1 monitoring had been finished on 28 Nov 2012
- 4.2.1 Limit level exceedance was recorded at RTN2a-Electric Centre on 15 December 2015 during daytime in December reporting month. On 15 December 2015, concreting was undertaken by Contract HY/2009/19 while steel bar cutting works by saw cutter for Hong Kong Electric Centre was conducted at the roof top by non-CWB Contractor immediately next to the noise monitoring station and was considered as major noise contribution. As such, the exceedance was considered as non-Project related.

4.3. Air Monitoring Results

4.3.1. 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

4.3.2. 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 4.6* below.

Station	Description
CMA5b	Pedestrian Plaza
CMA6a	WDII PRE Site Office *

Table 4.6Air Monitoring Stations for Contract no. HK/2009/01

4.3.3. No action or limit exceedance was recorded 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>

4.3.4. 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 4.7* below.



Table 4.7	Air Monitoring Station for Contract no. HK/2009/02
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Station	Description
CMA4a	Society for the Prevention of Cruelty to Animals

4.3.5. No action or limit level exceedance was recorded in March, April and May reporting month.

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

4.3.6. 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 4.8* below.

 Table 4.8
 Air Monitoring Station for Contract no. HY/2009/15

Station	Description
CMA3a	CWB PRE Site Office

4.3.7. 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

- 4.3.8. 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.
- 4.3.9. The proposed division of air monitoring stations is summarized in *Table 4.9* below.

 Table 4.9 Air Monitoring Stations for Contract no. HY/2009/19

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

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

4.4 Water Monitoring Results

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

- 4.4.1. 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 4.10* below.
- 4.4.2. Water quality monitoring station RW21-P789 has been implemented with respect to HK/2009/02 started on 29 July 2013.



Table 4.10	Water Monitoring	Stations for	Contract no.	HK/2009/01
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Station Ref.	Location	Easting	Northing		
Cooling Water Intake					
C1 HKCEC Extension 835885.6 816223.0					

- 4.4.3. There was one limit level turbidity exceedance recorded at C1 on 26 December 2015 in the reporting month.
- 4.4.4. After checking with the contractor, no marine activity was conducted on 26 December 2015. In view of no marine activity was conducted and no exceedance was recorded on the subsequent monitoring, it was considered that the exceedance was not project related.
- 4.4.5. No action or limit level exceedances recorded in January reporting month.
- 4.4.6. There were 3 action level and 1 limit level turbidity exceedances recorded at C1 on 29 January 2016, 1, 3 and 11 February 2016 in February reporting month.
- 4.4.7. After checking with the contractor, no marine construction activity was conducted on 29 January 2016, 1, 3 and 11 February 2016. In view of no marine activity conducted, it was considered that the exceedances were not project related.

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

4.4.8. 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 4.11* below.

Station Ref.	Location	Easting	Northing		
Cooling Water Intake					
C1	HKCEC Extension	835885.6	816223.0		
Cooling Water Intake					
RW21-P789	W21-P789 Great Eagle Centre/ Sun Hung Kai Centre/WSD Wanchai salt water intake / China Resources Building		816020.0		

 Table 4.11 Water Monitoring Stations for Contract no. HK/2009/02

- 4.4.9. There were one action and one limit level of turbidity exceedances recorded at RW21-P789 on 30 November 2015 and 18 December 2015 in December reporting month.
- 4.4.10. After checking with the contractor, no marine construction activity was conducted on 30 November 2015 and 18 December 2015. The installed silt screen was generally in order. In view of no marine activity conducted and no exceedance was recorded on the subsequent monitoring, it was considered that the exceedances were not project related.
- 4.4.11. There was one limit level turbidity exceedances recorded at C1 on 26 December 2015 in December reporting month.



- **4.4.12.** After checking with the contractor, no marine activity was conducted on 26 December 2015 while the location of the construction area was located at downstream of C1 monitoring station. In view of no marine activity was conducted and no exceedance was recorded on the subsequent monitoring, it was considered that the exceedance was not project related.
- 4.4.13. There were 5 action level turbidity exceedances recorded at RW21-P789 on 30 December 2015, 15, 20, 22 and 25 January 2016 in January reporting month.
- 4.4.14. After checking with the contractor, no marine construction activity was conducted on 30 December 2015, 15, 20, 22 and 25 January 2016. The installed silt screen was generally in order. In view of no marine activity conducted and no exceedance was recorded during the subsequent monitoring on 2 January 2016 ebb tide, 18 January 2016 flood tide, 20 January 2016 ebb tide, 22 January 2016 ebb tide and 27 January 2016 ebb tide, it was considered that the exceedances were not project related.
- 4.4.15. There were 7 action level and 2 limit level turbidity exceedances recorded at RW21-P789 on 27 and 29 January 2016, 1, 3, 5, 11 and 13 February 2016 in February reporting month.
- **4.4.16.** After checking with the contractor, despite placing berm block was conducted on 1 February 2016, contractor mitigation measure including the use of silt curtain was in place. The installed silt screen was generally in order. In view of the above, it was considered that the exceedance was not project related.
- **4.4.17.** No marine construction activity was conducted on 27 and 29 January 2016, 3, 5, 11 and 13 February 2016. The installed silt screen was generally in order. In view of no marine activity conducted, it was considered that the exceedances were not project related.
- 4.4.18. There were 3 action level and 1 limit level turbidity exceedances recorded at C1 on 29 January 2016, 1, 3 and 11 February 2016 in February reporting month.
- 4.4.19. After checking with the contractor, despite placing berm block was conducted on 1 February 2016, contractor mitigation measure including the use of silt curtain was in place. The installed silt screen was generally in order. In view of the above and no exceedance was recorded on the subsequent monitoring, it was considered that the exceedance was not project related.
- 4.4.20. No marine construction activity was conducted on 29 January 2016, 3 and 11 February 2016. The installed silt screen was generally in order. In view of no marine activity conducted, it was considered that the exceedances were not project related.

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

4.4.21. 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 4.12* below.



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			
P3	The Academy of performing Arts	835824.6	816212.0			
P4	Shui on Centre	835865.6	816220.0			
P5	5 Government Buildings (Wanchai Tower / Revenue Tower / Immigration Tower)		816215.2			

Table 4.12	Water Monitoring	Stations for	Contract no.	HK/2012/08

- 4.4.22. There were 5 action level and 4 limit level of turbidity exceedances recorded at WSD19 on 30 November 2015, 2, 7, 16, 18, 23 and 26 December 2016 in December reporting month.
- 4.4.23. After checking with contractor, despite trimming of grade 400 rock bedding was conducted near Zone A1 on 30 November 2015, 2 and 23 December 2015, contractor mitigation measures including the use of localized silt curtain was generally in place. In view of the above, the exceedances were considered not project related.
- **4.4.24.** Despite installation of slotted panels was conducted near Zone A2 on 7 December 2015, constructor mitigation measures including the use of localized silt curtain was generally in place. In view of the above and no exceedance was recorded on the subsequent monitoring, it was considered that the exceedance was not project related.
- **4.4.25.** No marine construction activity was conducted on 16, 18 and 26 December 2015. In view of no marine activity conducted, it was considered that the exceedances were not project related.
- 4.4.26. There was one limit level turbidity exceedance recorded at monitoring station P5 on 7 December 2015 in December reporting month.
- 4.4.27. After checking with contractor, despite installation of slotted panels was conducted near Zone A2 on 7 December 2015, contractor mitigation measures including the use of localized silt curtain was generally in place. In view of no turbidity exceedance recorded at the monitoring stations located between construction area and P5 monitoring station and no turbidity exceedance was recorded on the subsequent monitoring, it was considered that the turbidity was not project related.
- 4.4.28. There was one action level suspended solid exceedance recorded at monitoring station P5 on7 December 2015 in December reporting month.
- 4.4.29. After checking with contractor, despite installation of slotted panels was conducted near Zone A2 on 7 December 2015, contractor mitigation measures including the use of localized silt curtain was generally in place. In view of no suspended solid exceedance recorded at the monitoring stations located between construction area and P5 monitoring station and no



suspended solid exceedance was recorded on the subsequent monitoring, it was considered that suspended solid exceedance was not project related.

- 4.4.30. There were 5 action level turbidity exceedances recorded at WSD19 on 28 and 30 December 2015, 18, 20 and 25 January 2016 in January reporting month.
- 4.4.31. After checking with contractor, despite trimming of grade 400 rock mound was conducted near Zone D on 28 December 2015, 18, 20 and 25 January 2016, contractor mitigation measures including the use of localized silt curtain was generally in place. In view of the above, and no exceedance was recorded during the subsequent monitoring on 30 December 2015 ebb tide, 18 January 2016 ebb tide, 20 January 2016 ebb tide and 27 January 2016 ebb tide, the exceedances were considered not project related.
- **4.4.32.** Despite trimming of armour rocks was conducted near Zone B/A2 on 30 December 2015, contractor mitigation measures including the use of localized silt curtain was generally in place. In view of the above and no exceedance was recorded on the subsequent monitoring, it was considered that the exceedance was not project related.
- 4.4.33. There were 9 action level and 3 limit level turbidity exceedances recorded at WSD19 on 27 and 29 January 2016, 1, 3, 5, 11, 13, 15 and 24 February 2016 in February reporting month.
- 4.4.34. After checking with contractor, despite installation of seawall blocks was conducted near Zone D on 27 and 29 January 2016, 3, 13, and 15 February 2016, contractor mitigation measures including the use of localized silt curtain was in place. In view of the above, it was considered that the exceedances were not project related.
- 4.4.35. Despite trimming of grade 400 rock mound was conducted near Zone D on 1 and 24 February 2016, contractor mitigation measures including the use of localized silt curtain was generally in place. In view of the above, it was considered that the exceedances were not project related.
- **4.4.36.** Despite placing of levelling stones was conducted near Zone D on 5 February 2016, contractor mitigation measures including the use of localized silt curtain was generally in place. In view of the above and no exceedance was recorded on the subsequent monitoring, it was considered that the exceedance was not project related.
- **4.4.37.** No marine activity was conducted on 11 February 2016. In view of no marine activity conducted, it was considered that the exceedances were not project related.
- 4.4.38. There were 3 action level and 1 limit level turbidity exceedances recorded at P1 on 27 and 29 January 2016, 1 and 5 February 2016 in February reporting month.
- 4.4.39. After checking with contractor, despite installation of seawall blocks was conducted near Zone D on 27 and 29 January 2016, contractor mitigation measures including the use of localized silt curtain was in place. The construction area was located at downstream of P1 monitoring station during monitoring period. In view of the above, it was considered that the exceedances were not project related.

- 4.4.40. Despite trimming of grade 400 rock mound was conducted near Zone D on 1 February 2016, contractor mitigation measures including the use of localized silt curtain was generally in place. The construction area was located at downstream of P1 monitoring station during monitoring period. In view of the above and no exceedance was recorded on the subsequent monitoring, it was considered that the exceedances were not project related.
- 4.4.41. Despite placing of levelling stones was conducted near Zone D on 5 February 2016, contractor mitigation measures including the use of localized silt curtain was generally in place. The construction area was located at downstream of P1 monitoring station during monitoring period. In view of the above and no exceedance was recorded on the subsequent monitoring, it was considered that the exceedance was not project related.
- 4.4.42. There was 1 action level turbidity exceedance recorded at P3 on 29 January 2016 in February reporting month.
- 4.4.43. Despite installation of seawall blocks was conducted near Zone D on 29 January 2016, contractor mitigation measures including the use of localized silt curtain was in place. The construction area was located at downstream of P3 monitoring station. In view of the above and no exceedance was recorded on the subsequent monitoring, it was considered that the exceedance was not project related.
- 4.4.44. There were 2 limit level turbidity exceedances recorded at P4 on 27 and 29 January 2016 in February reporting month.
- 4.4.45. After checking with contractor, despite installation of seawall blocks was conducted near Zone D on 27 and 29 January 2016, contractor mitigation measures including the use of localized silt curtain was in place. The construction area was located at downstream of P4 monitoring station during monitoring period. In view of the above, it was considered that the exceedances were not project related.
- 4.4.46. There were 2 limit level turbidity exceedances recorded at P5 on 27 and 29 January 2016 in February reporting month.
- 4.4.47. After checking with contractor, despite installation of seawall blocks was conducted near Zone D on 27 and 29 January 2016, contractor mitigation measures including the use of localized silt curtain was in place. The construction area was located at downstream of P5 monitoring station during monitoring period. In view of the above, it was considered that the exceedances were not project related.

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

4.4.48. 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 4.13* and *Table 4.14* below.



Table 4.13	Water Monitoring Stations for Contract no. HY/2009/15
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Station Ref.	Location	Easting	Northing		
Cooling Water Intake					
C7	Windsor House	837193.7	816150.0		

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.

Table 4.14 Enhance Dissolved Oxygen Monitoring Stations for Contract no. HY/2009/15

Station Ref.	Location
C6	Excelsior Hotel
Ex-WPCWA SW	South-western 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.
- 2. Enhanced DO monitoring at Monitoring station at Ex-PCWAE was temporarily suspended from 31 August 2015 with respect to seawall reinstatement works and formation of active works area, to be resumed upon completion of seawall reinstatement works
- 4.4.49. There was one limit level DO exceedance was recorded at Ex-WPCWA SW on 21 December 2015 in December reporting month.
- 4.4.50. After checking with contractor, despite seawall reinstatement works was conducted at TPCWAE on 21 December 2015, contractor mitigation measures including the use of silt curtain was generally in order while upstream discharge from nearby culvert was noted. In view of the above and no exceedance was recorded on the subsequent monitoring, the exceedance was considered not related to Project works.
- 4.4.51. There were 2 limit level DO exceedances recorded at Ex-WPCWA SW on 2 January 2016 in January reporting month.
- 4.4.52. After checking with contractor, despite seawall reinstatement works was conducted at TPCWAE on 2 January 2016, contractor mitigation measures including the use of silt curtain was generally in order while upstream discharge from nearby culvert was noted. In view of the above, the exceedance was considered not related to Project works. The DO level has returned to normal level on 4 January 2016 flood tide.
- 4.4.53. There were 2 action level and 1 limit level turbidity exceedances recorded at C7 on 30 December 2015, 4 and 22 January 2016 in January reporting month.
- 4.4.54. After checking with contractor, no marine construction activities was conducted at Causeway Bay Typhoon Shelter on 30 December 2015, 4 and 22 January 2016. In view of no marine construction activities was conducted and no exceedance was recorded during the subsequent monitoring on 30 December 2015 flood tide, 4 January 2016 ebb tide and 22 January 2016 ebb tide, it was considered that the exceedance was not project related.



- 4.4.55. There were 2 limit level DO exceedances recorded at Ex-WPCWA SW on 11 and 24 February 2016 in February reporting month.
- 4.4.56. After checking with contractor, no marine activity was conducted at TPCWAE on 11 and 24 February 2016, while upstream discharge from nearby culvert was noted. In view of no marine activity was conducted and no exceedance was recorded on the subsequent monitoring, the exceedances were considered not related to Project works.
- 4.4.57. There was 1 action level turbidity exceedance recorded at C7 on 1 February 2016 in February reporting month.
- 4.4.58. After checking with contractor, no marine construction activity was conducted at Causeway Bay Typhoon Shelter on 1 February 2016. In view of no marine construction activities was conducted and no exceedance was recorded on the subsequent monitoring, it was considered that the exceedance was not project related.

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

4.4.59. The proposed division of water quality monitoring stations are summarized in *Table 4.15* and *Table 4.16* below:

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

Table 4.16 Enhance Dissolved Oxygen Monitoring Stations for Contract no. HY/2010/08

Station Ref.	Location
C6	Excelsior Hotel

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.
- 4.4.60. No action or limit level exceedance was recorded in December reporting month.
- 4.4.61. There were 2 action and 1 limit level turbidity exceedances recorded at C7 on 30 December 2015, 4 and 22 January 2016 in January reporting month.
- 4.4.62. After checking with contractor, no marine construction activities was conducted on 30 December 2015, 4 and 22 January 2016. The installed silt screen was in place. In view of no marine construction activities was conducted and no exceedance was recorded during the subsequent monitoring on 30 December 2015 flood tide, 4 January 2016 ebb tide and 22 January 2016 ebb tide, it was considered that the exceedance was not project related.
- 4.4.63. There was 1 action level turbidity exceedance recorded at C7 on 1 February 2016 in February reporting month.



4.4.64. After checking with contractor, no marine construction activity was conducted on 1 February 2016, and the installed silt screen was in place. In view of no marine construction activities was conducted and no exceedance was recorded on the subsequent monitoring, it was considered that the exceedance was not project related.

4.5 Waste Monitoring Results

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

4.5.1. 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 4.17*.

Waste Type	Quantity this quarter	Quantity this quarter Cumulative Quantity- to-Date	
Inert C&D materials disposed, m ³	NII 62116 405		TKO137, TM38
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		52250 (Bulk Volume)	East of Cha Chau
Dredged Sediment Requiring Type 3 – Special Treatment / Disposal contained in Geosynthetic Containers		6773 (Bulk Volume)	East of Cha Chau

Table 4.17 Details of Waste Disposal for Contract no. HK/2009/01

4.5.2. 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>



4.5.3. 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 4.18.*

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

Table 4.18 Details of Waste Disposal for	Contract no. HK/2009/02
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4.5.4. 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>

4.5.5. 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.*

Waste Type	Quantity this quarter	Cumulative Quantity- to-Date	Disposal / Dumping Grounds	Remarks
Inert C&D materials disposed, m ³	NIL	141579.2	Tuen Mun Area 38	NIL
	NIL	65216	TKO137 FB	NIL
Inert C&D materials	NIL	304	Ex-PCWA	NIL
recycled, m ³	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



Waste Type	Quantity this quarter	Cumulative Quantity- to-Date	Disposal / Dumping Grounds	Remarks
Chemical waste disposed, kg	NIL	8,200	N/A	NIL
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	322796 (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

4.5.6. There was no Marine Sediment (Type 1 – Open Sea Disposal) and no Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sties) & Type 2 – Confined Marine Disposal) disposed 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>

4.5.7. 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 4.20*.

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

Table 4.20 Details of Waste Disposal for Contract no. HY/2009/19



Lam Geotechnics Limited

Waste Type	Quantity this month	Cumulative Quantity- to-Date	Disposal / Dumping Grounds
m ³			
Non-inert C&D materials disposed, m ³	NIL	1068.6	N/A
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
$\begin{array}{l} \mbox{Marine Sediment (Type 2 - Confined Marine Disposal)},\\ \mbox{m}^3 \end{array}$	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

4.5.8. There were no marine sediments Type1- Open Sea Disposal and there were 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>

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

Waste Type	Quantity this month	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	NIL	N/A
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)	108485 (Bulk volume)	South of The Brothers (from 27 Aug 2013 onwards)

Table 4.21 Details of Waste Disposal for Contract no. HK/2012/08



4.5.10. No Marine Sediment (Type 1 – Open Sea Disposal) and 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)

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

Waste Type	Quantity this month	Cumulative Quantity- to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m ³	NIL	267600.2	N/A
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	55290	South Cheung Chau
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine disposal)	NIL	27760	Brothers Island
Marine Sediment (Type 3 – Special Treatment)	NIL	7780	Brothers Island

Table 4.22 Details of Waste Disposal for Contract no. HY/2010/08

4.5.12. 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 Four limit level exceedances were recorded at noise monitoring station M1a Habour Road Sports Center on 01, 08, 15 and 23 December 2015 in December reporting month. The exceedances were concluded as non-project related.
- 5.1.2 Two limit level exceedances were recorded at noise monitoring station M6 HK Baptist Church Henrietta Secondary School on 11 and 16 December 2015 in December reporting month. The exceedances were concluded as non-project related.
- 5.1.3 Two limit level exceedances were recorded at noise monitoring station M1a Habour Road Sports Center on 12 and 19 January 2016 in January reporting month. The exceedances were concluded as non-project related.
- 5.1.4 Two limit level exceedances were recorded at noise monitoring station M1a Habour Road Sports Center on 16 and 23 February 2016 in February 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. Real-time Noise Monitoring

- 5.2.1 Limit level exceedance was recorded at RTN2a-Electric Centre on 15 December 2015 during daytime in December reporting month. On 15 December 2015, concreting was undertaken by Contract HY/2009/19 while steel bar cutting works by saw cutter for Hong Kong Electric Centre was conducted at the roof top by non-CWB Contractor immediately next to the noise monitoring station and was considered as major noise contribution. As such, the exceedance was considered as non-Project related.
- 5.2.2 Details of real time noise monitoring results and graphical presentation can be referred to <u>Appendix 4.2</u>

5.3. Air Monitoring

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



5.4. Water Quality Monitoring

- 5.4.1 There were 6 action level and 7 limit level of turbidity exceedances, and 1 action level and no limit level of suspended solid exceedances recorded in December reporting month. Investigation found that the turbidity exceedances and suspended solid exceedances recorded in December reporting month were not related to Project works.
- 5.4.2 There were 12 action level and 1 limit level of turbidity exceedances recorded in January reporting month. Investigation found that the turbidity exceedances recorded in January reporting month were not related to Project works.
- 5.4.3 There were 24 action level and 11 limit level of turbidity exceedances recorded in February reporting month. Investigation found that the turbidity exceedances recorded in February reporting month were not related to Project works.
- 5.4.4 There was no action level and 1 limit level exceedances of enhanced dissolved oxygen recorded in December reporting month. Investigation found that the exceedance was not related to Project works.
- 5.4.5 There was no action level and 2 limit level exceedances recorded for enhanced dissolved oxygen monitoring in January reporting month. Investigation found that the exceedance was not related to Project works.
- 5.4.6 There was no action level and 2 limit level exceedances recorded for enhanced dissolved oxygen monitoring in February reporting month. Investigation found that the exceedance was not related to Project works.

5.5. 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.

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

5.6.1 There was no non-compliance from the site audits in the reporting period.

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

- 5.7.1 There was no particular action taken since no project-related non-compliance was recorded from the site audits in September reporting month.
- 5.7.2 There was no particular action taken since no project-related non-compliance was recorded from site audit in November reporting month.



6. COMPLAINTS, NOTIFICATION OF SUMMONS AND PROSECUTION

- 6.0.1. No environmental complaint was received in this reporting quarter.
- 6.0.2. Referring to the complaint case regarding the illegal disposal of construction waste referred by EPD was received by ET on 17 November 2015, the updated 2nd and 3rd interim investigation report were submitted to the EPD on 17 December 2015 and 31 December 2015 respectively. In response to the complaint concern, additional water quality monitoring and additional site inspections have been conducted by the ET and the investigation findings were included in the interim investigation reports separately submitted to the EPD. In addition, the ET and IEC have conducted checking on the waste disposal records and site construction records with the CWB RSS team to confirm the key construction activities during the concerned period and the quantities of inert C&D material disposed. Upon further review on relevant records and follow up inspections on the implementation of site measures, the final investigation would be issued.
- 6.0.3. The details of cumulative complaint log and summary of complaints are presented in *Appendix 6.1.*
- 6.0.4. Cumulative statistic on complaints and successful prosecutions are summarized in *Table 6.1* and *Table 6.2* respectively.

Reporting Period	No. of Complaints
Commencement works (Mar 2010) to November 2015	44
December 2015 – January 2016	0
Project-to-Date	44

Table 6.1 Cumulative Statistics on Complaints

Table 6.2	Cumu	lative Statistics on Suc	cessful Prosecutions	
				Τ

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	Waste - 0 Total - 0		0
Total			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 caisson seawall installation, structural works for tunnel construction, road works and drainage works and P1 landscaping works were performed in this reporting quarter. 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 tunnel works, ELS works and road works at Wan Chai East and caisson installation, D-wall construction and ELS works at Wan Chai West. The major construction activities under Central-Wan Chai Bypass and Island Eastern Corridor Link Projects were bridge construction and road works at Central Interchange, Tunnel works at Ex-PCWAW, ELS works and retaining wall construction at Victoria Park; D- wall construction, ELS works and tunnel works at TS3; IEC removal works, piling 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 Corridor Link projects was observed undertaken at Wan Chai North 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.



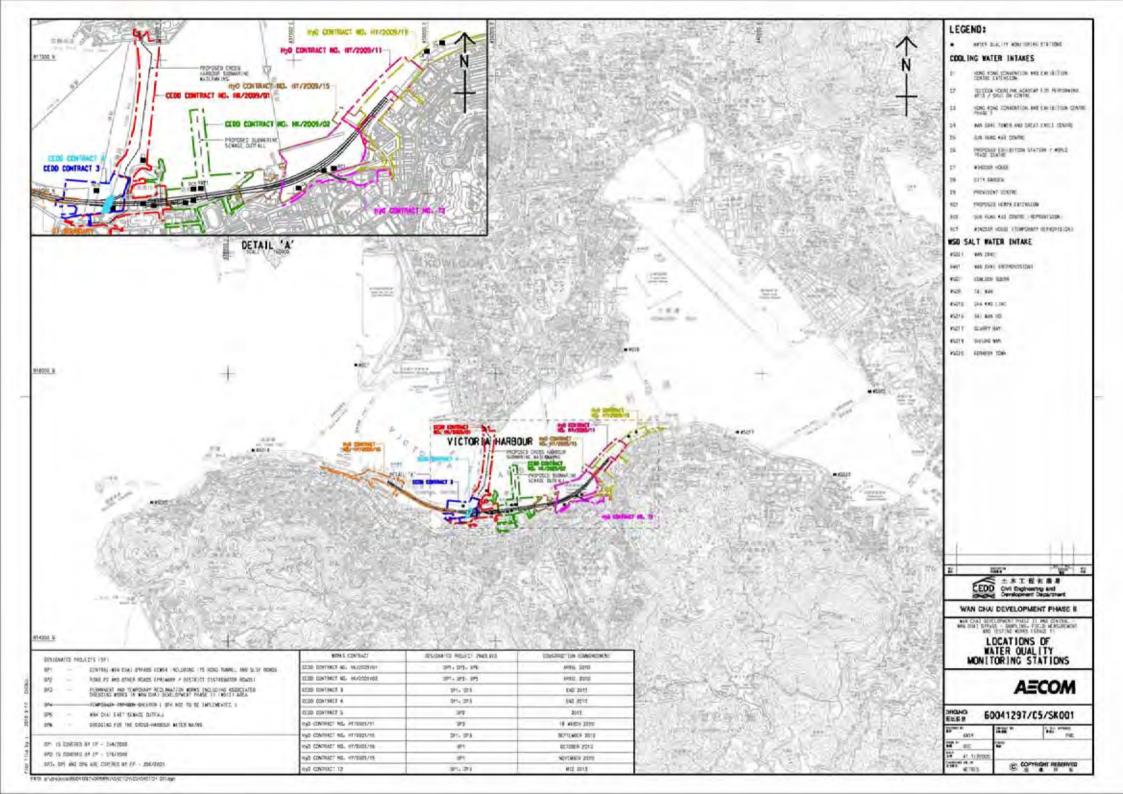
8. CONCLUSION

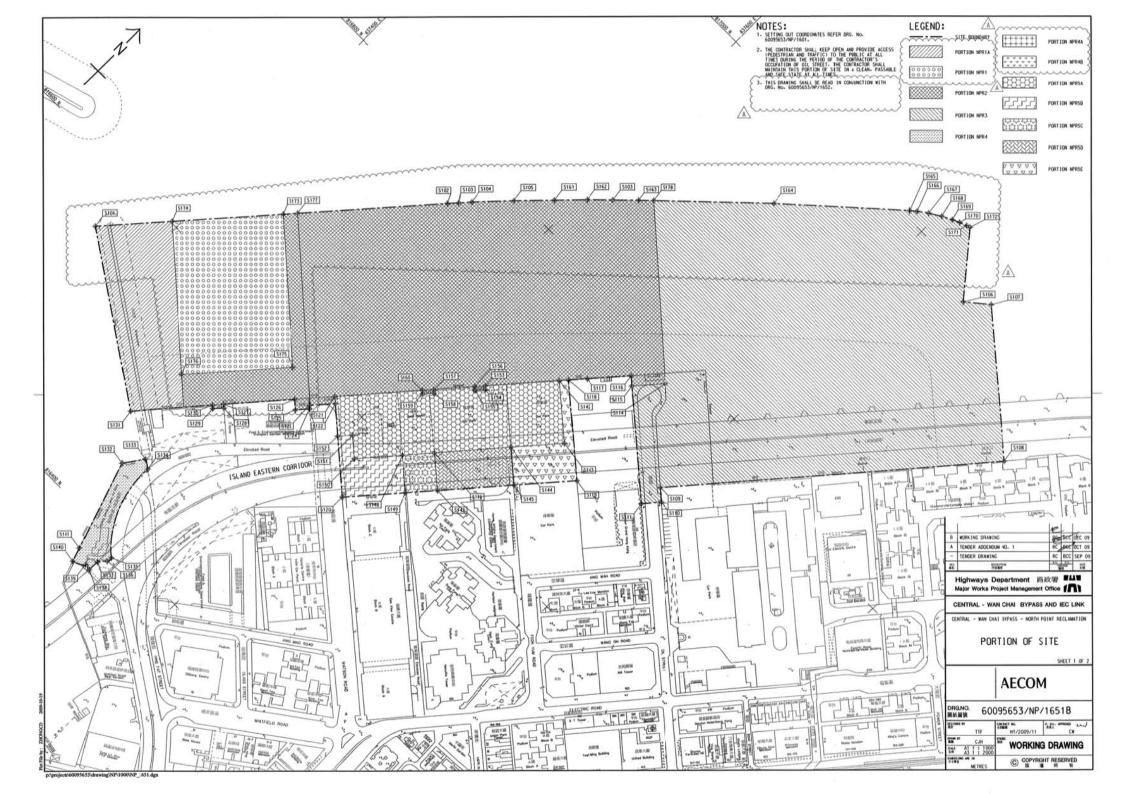
- 8.0.1. The EM&A programme was carried out in accordance with the EM&A Manual requirements, minor alterations to the programme proposed were made in response to changing circumstances.
- 8.0.2. No non-compliance was noted and no prosecution was received during in this reporting quarter.
- 8.0.3. The construction programmes of individual contracts are provided in *Appendix 8.1*.

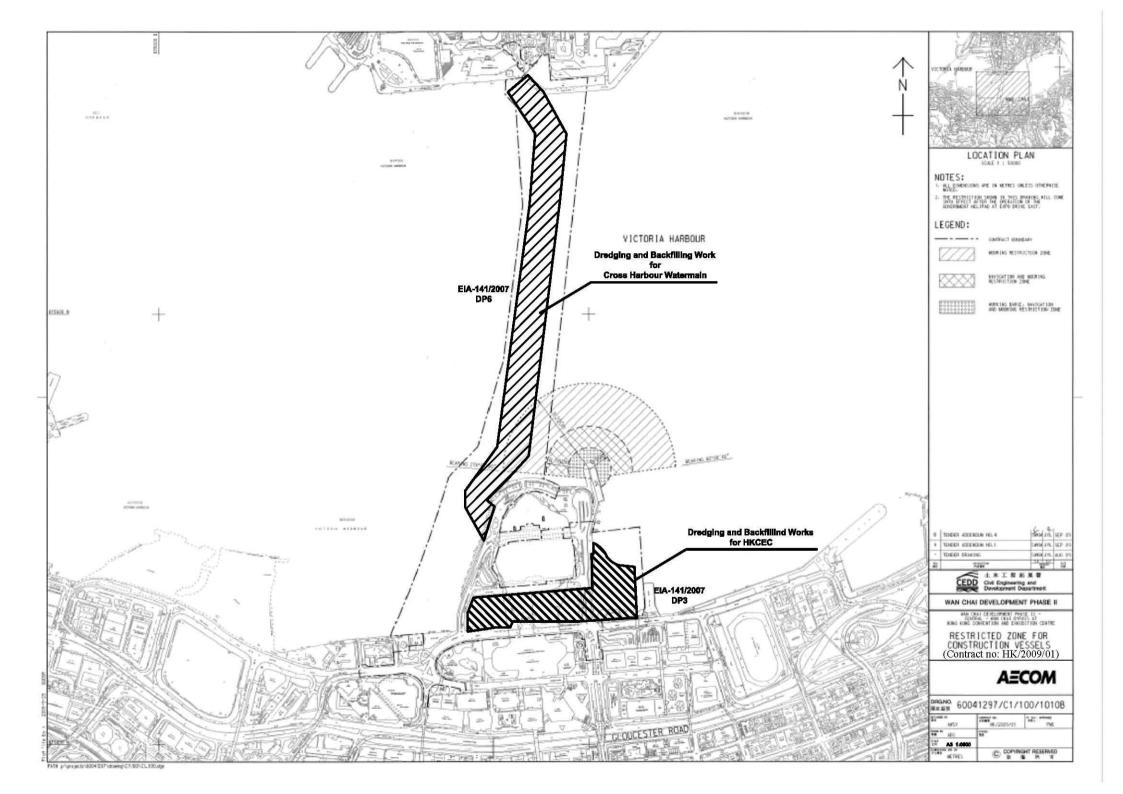


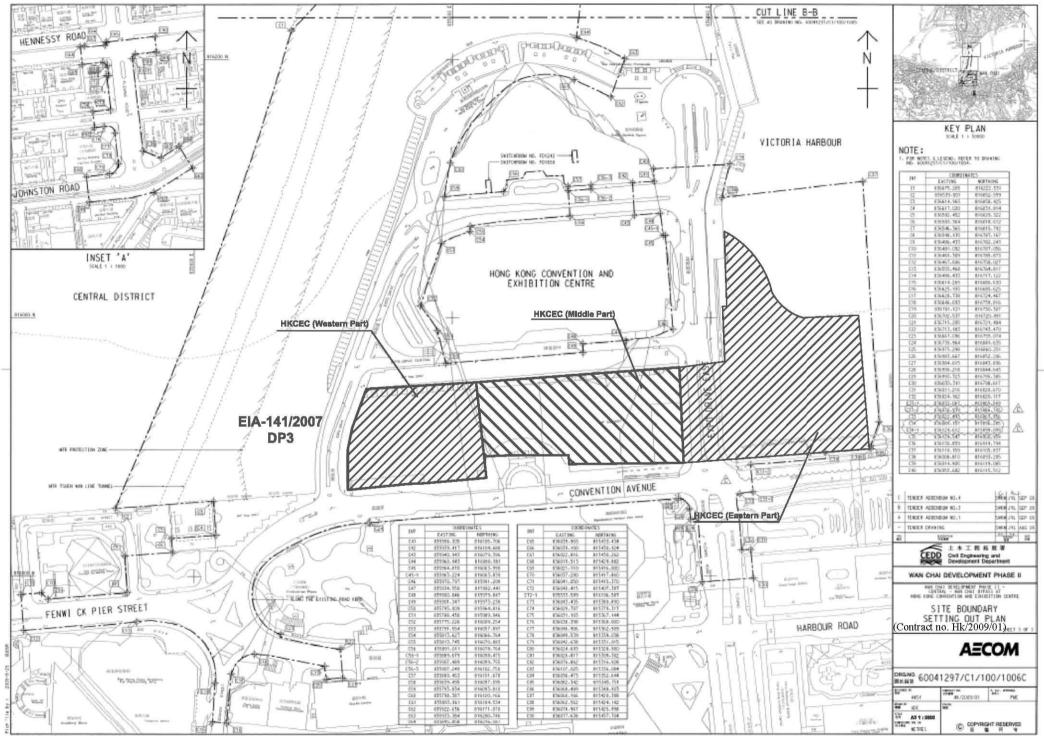
Figure 2.1

Project Layout

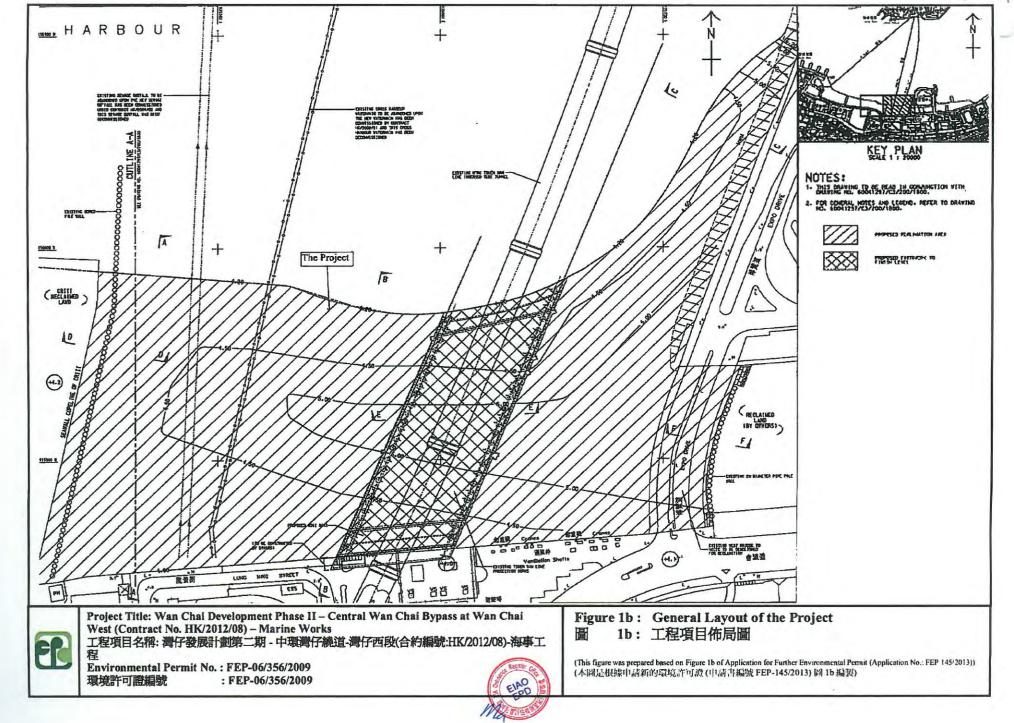


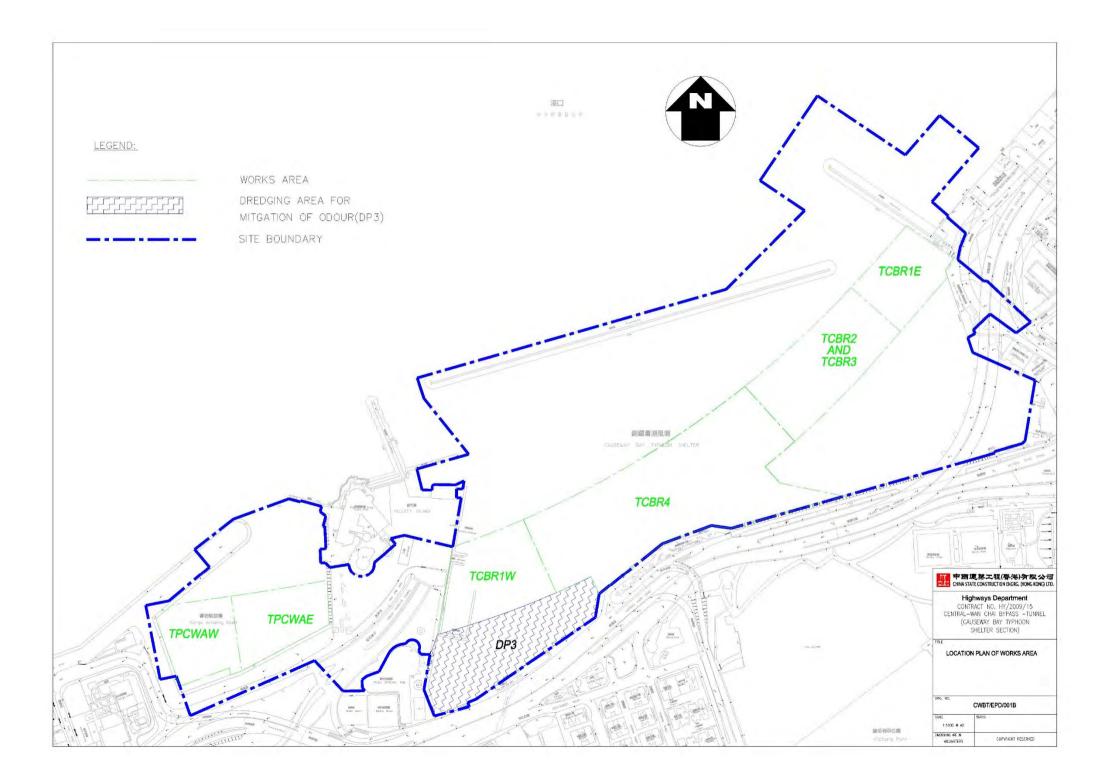


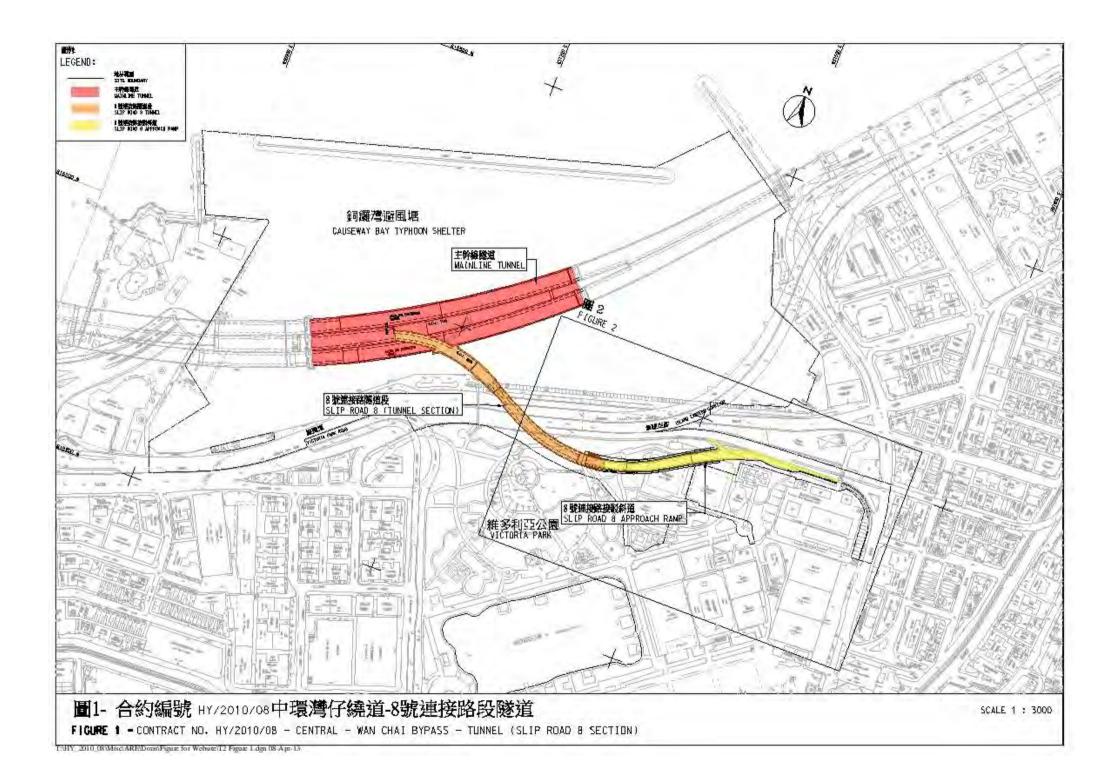


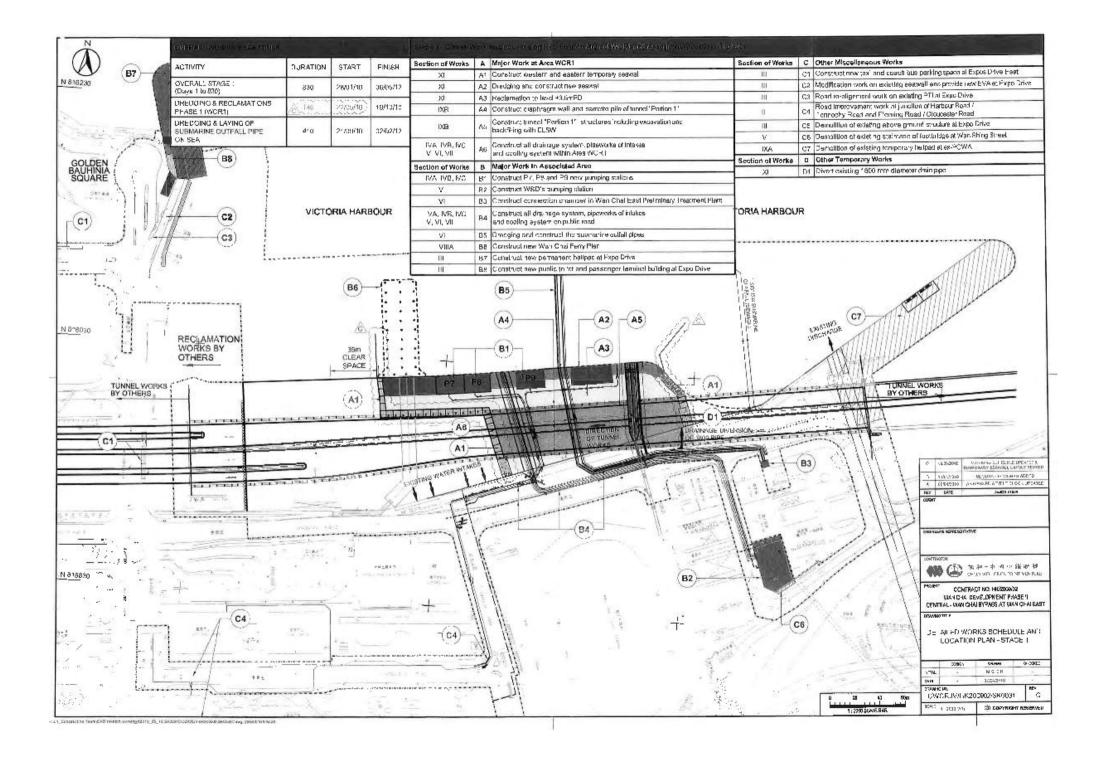


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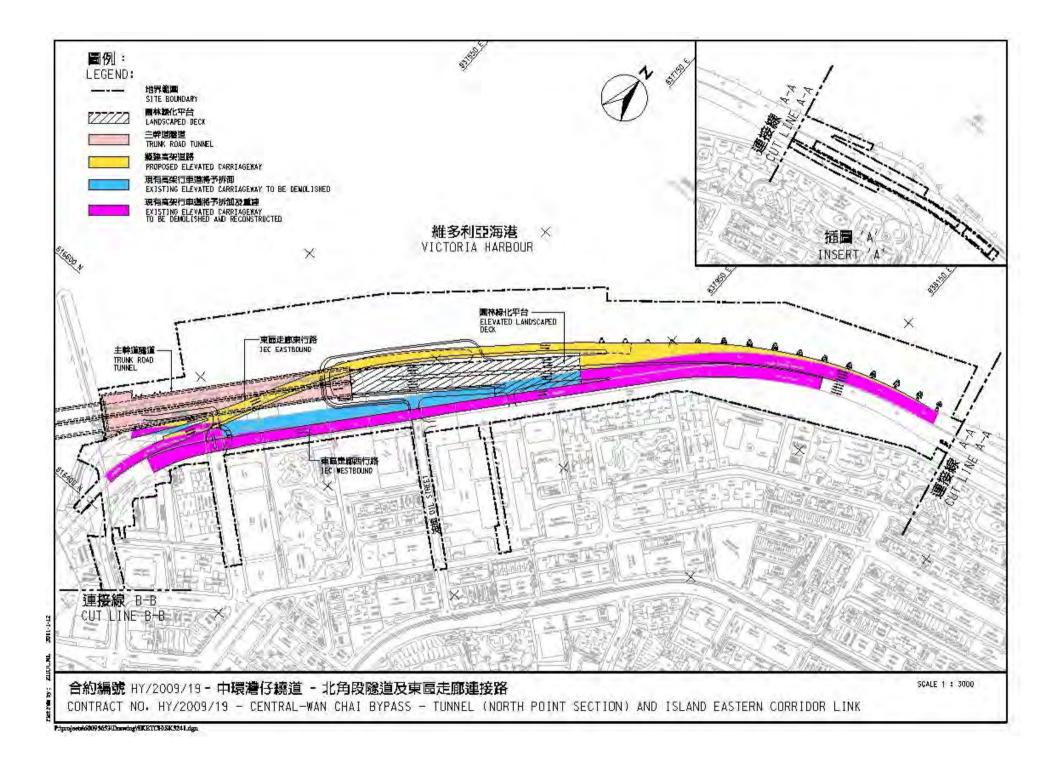




Figure 2.2

Project Organization Chart



Project Organization Chart

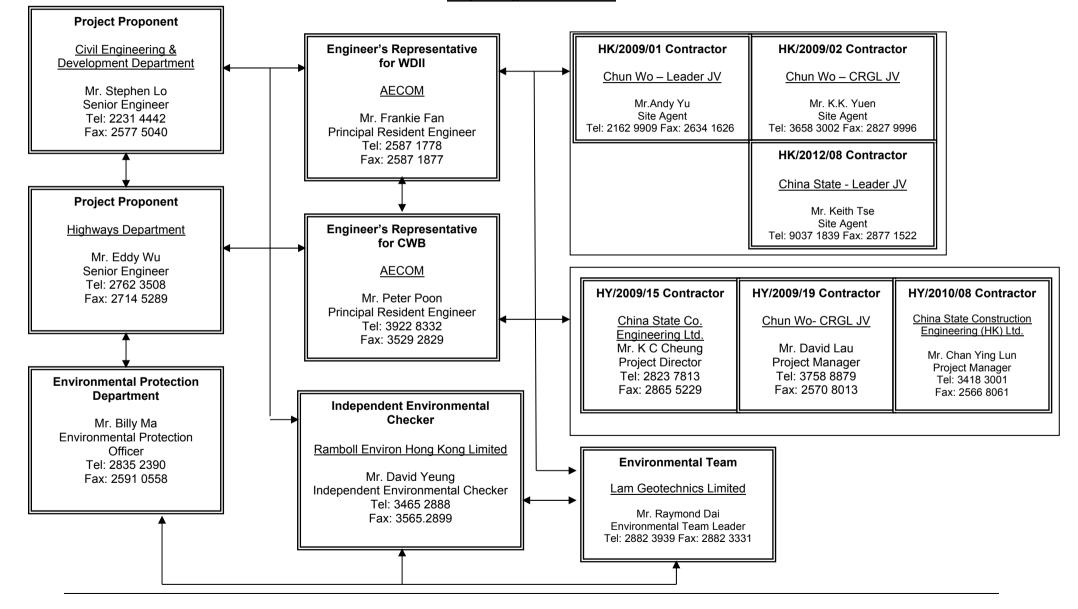
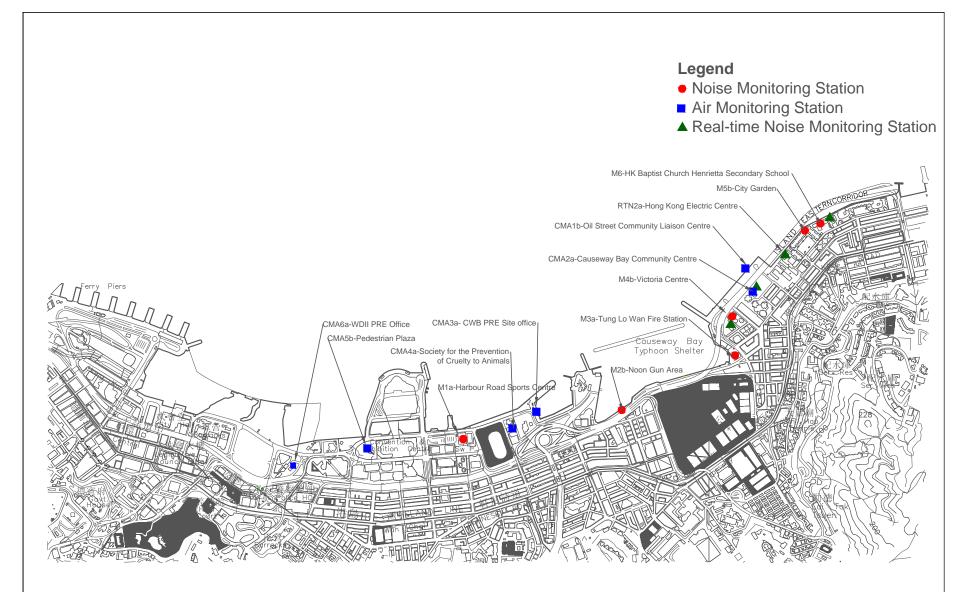




Figure 3.1

Locations of Monitoring Stations



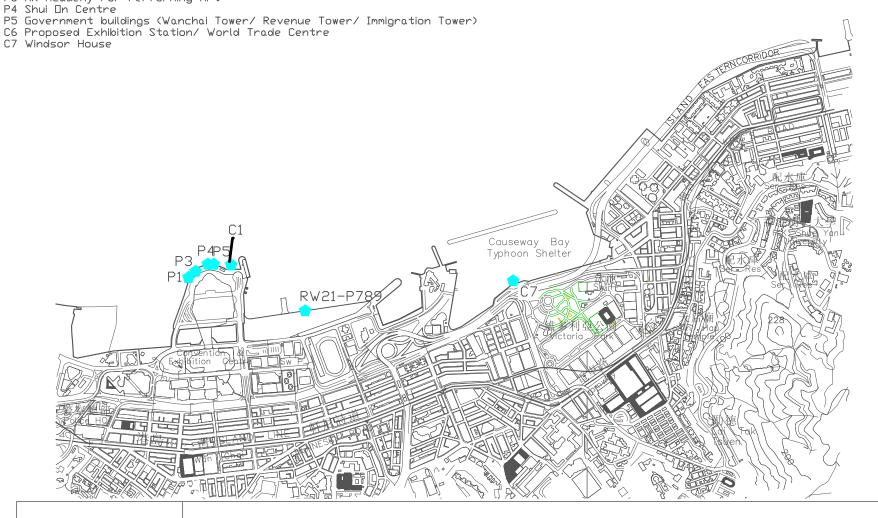
LOCATIONS OF AIR QUALITY AND NOISE MONITORING STATIONS



- 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

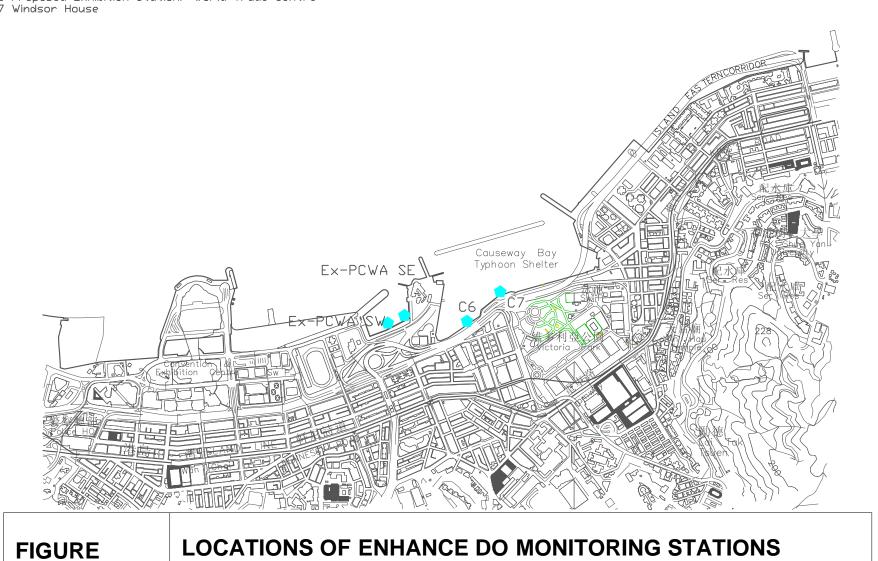
FIGURE

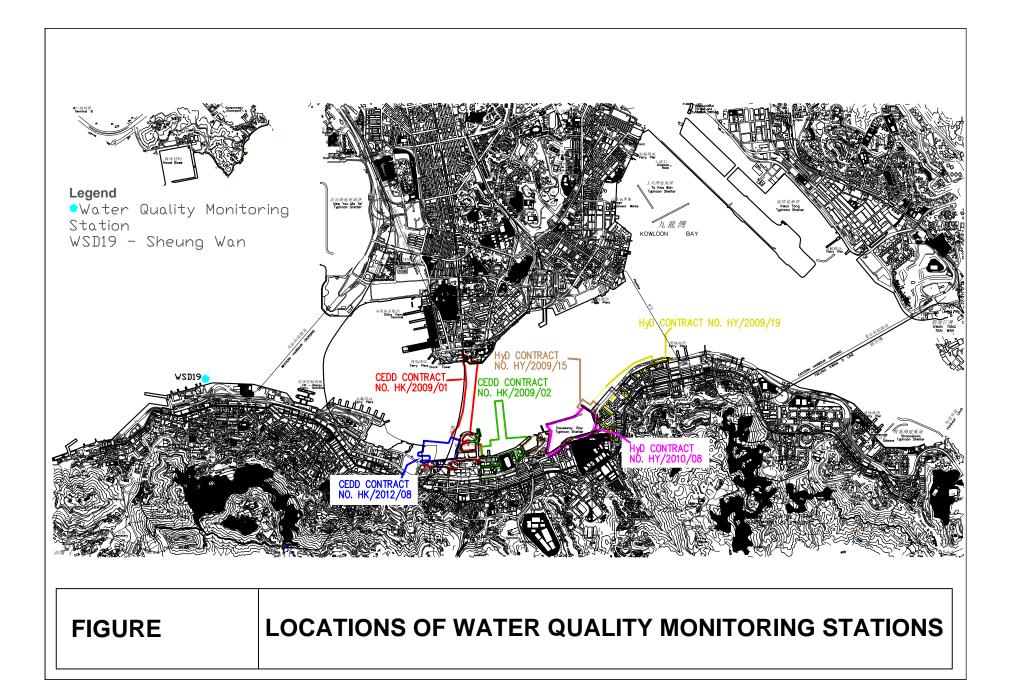


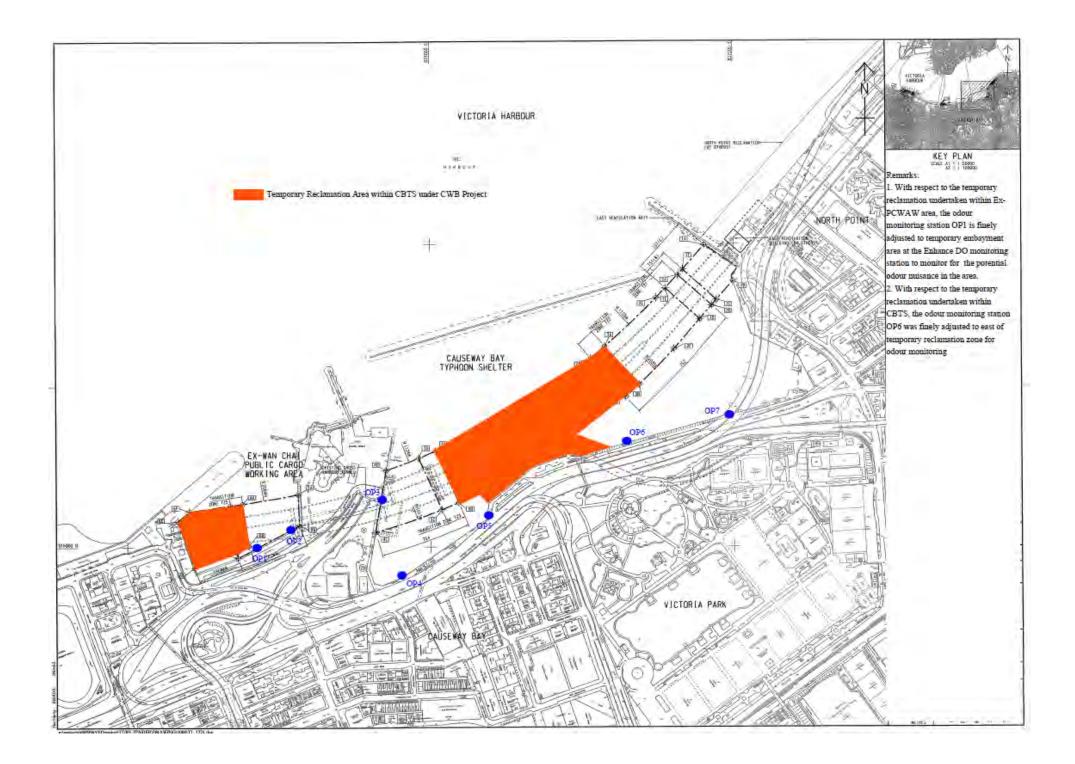
LOCATIONS OF WATER QUALITY MONITORING STATIONS

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	Location / Timing	cation / Timing 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	A Ref Environmental Protection Measures / Mitigation Measures Location / Timing Implementation Agent	Location / Timing	-	Implementation Stages*				Relevant Legislation
		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>'</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	Implementation Stages*				Relevant Legislation
		Liocation, Timing	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	ImplementationStages*DesCODec		-	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*	Relevant Legislatio			
	Environmental i rotection vicasures / virugation vicasures	Location / Thinng	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

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	nplem Sta	entati ges*	Relevant Legislation	
	Environmental Protection Measures / Mitigation Measures	Location / Thinng	Agent	Des	С	0	Dec	and Guidelines
For DP5 –	Wan Chai East Sewage Outfall							
\$4.8.3 - \$4.8.4	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)

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	nplem Sta	entati ges*	on	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	In		entati ges*	Relevant Legislation	
		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 95m 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 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	Ieasures Location / Timing Implementation		In	nplem Staş		on	Relevant Legislation
	e e e e e e e e e e e e e e e e e e e	Agen	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	nplementation Stages*			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 freusures /	minguno	n wicubui es		Timing	Agent	Des	С	0	Dec	and Guidelines
S5.8	typhoon shelter shall not be fully enclosed.			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	tigation measure, to avoid the accumulation of water borne pollutants the temporary embayment between CRIII and HKCEC1, an eable barrier, suspended from a floating boom on the water surface ending down to the seabed, will be erected by the contractor before CEC1 commences. The barrier will channel the stormwater ge flows from Culvert L to the outside of the embayment. The or will maintain this barrier until the reclamation 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
			(m ³ per	F								
	Dredging along seawall 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							
	PCWA Zone		5,000	313	35,000					1	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 as	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	much as possible from further dredging activities. For dredging within the Causeway Bay typhoon shelter, seawall shall be partially constructed to protect the nearby seawater intakes from further dredging activities. For example, at TCBR1W, the southern and eastern seawalls shall be constructed first (above high water mark) so that the seawater intakes at the inner water would be protected from the impacts from the remaining dredging activities along the northern boundary.				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 2009 with concurrent Bay, Sheung W dredging activities at Cooling water HKCEC, WCR, TPCWA, and Exhibitio	oplications 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*				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	In		entati ges*	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 / Timing	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		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; 																	e ıf			e of							
	 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		on Implementation Stages*		on	Relevant Legislation	
		Timing	Agent	Des	С	0	Dec	and Guidelines
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,							

Appendix 2.1

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Quarterly EM&A Report

EIA Ref	Environmental Protection Measures / Mitigation Measures	Timing Agent Des C tunnel ufficient roposed silt trap silt silt silt	-	-	1	-	In	ıplem Staş		on	Relevant Legislation
	ů.		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	
			Agent	Des	С	0	Dec	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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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	
S6.7.8	 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 and Guidelines ETWB TCW No. 31/2004 ProPECC PN 1/94
	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			
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	Location / Timing	Implementation	In	nplem Sta	entati ges*	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 Agent	In	nplem Sta	entati ges*	on	Relevant Legislation
		Liocation / Timing		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	Implementation Stages*				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.

Quarterly EM&A Report

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation
	g			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							

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	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	Implementation 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	Envir	onmental 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 Measures		Location / Timing	Implementation Agent	Stages*				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						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	Limit	Action	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

Deremetere	Depth	Dry Season		Wet Season	
Parameters		Action	Limit	Action	Limit
C6	Surface and Middle	3.13	2.00	2.60	2.00
	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
	Bottom	4.71	4.63	3.31	3.25
Ex-WPCWA SE	Surface and Middle	4.26	3.61	3.55	3.00
	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.

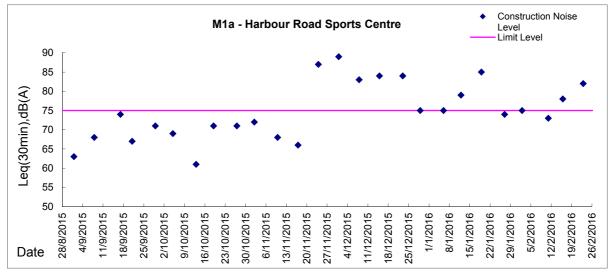


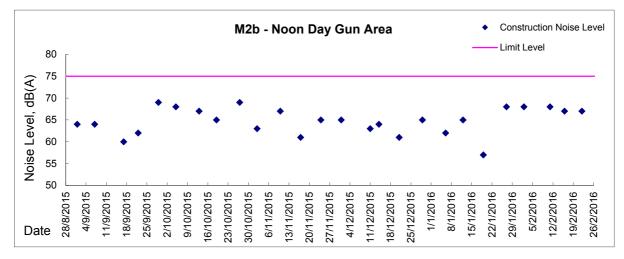
Appendix 4.1

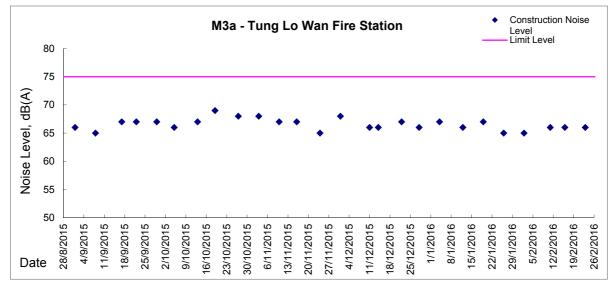
Noise Monitoring Graphical Presentations



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

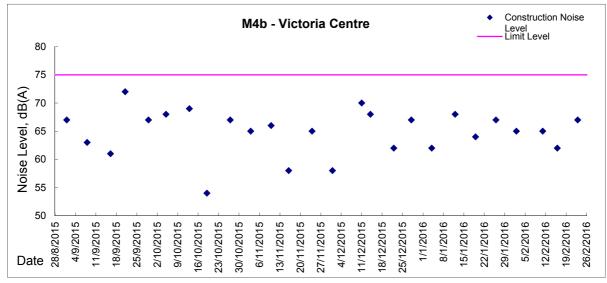


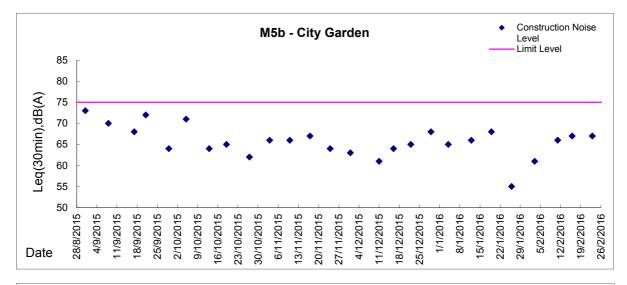


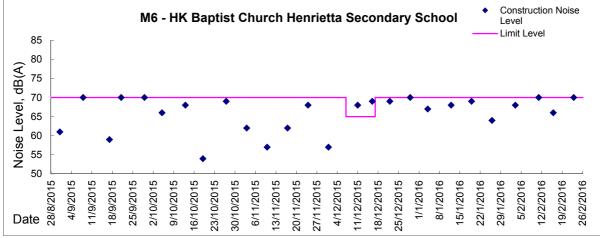




Graphic Presentation of Noise Monitoring Result Day Time (0700 - 1900hrs on normal weekdays)





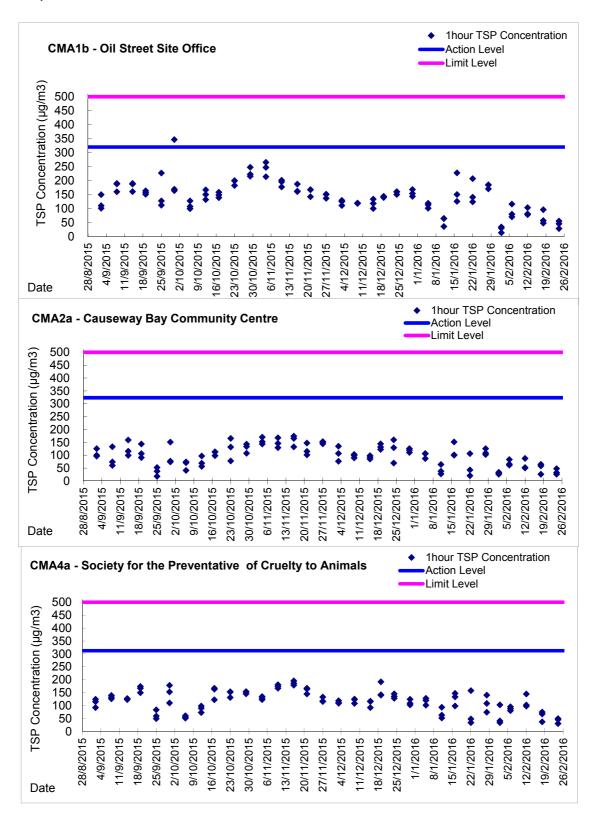




Appendix 4.2 Air Quality Monitoring Graphical Presentations

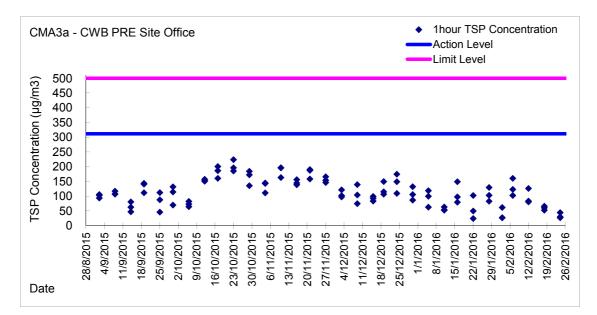


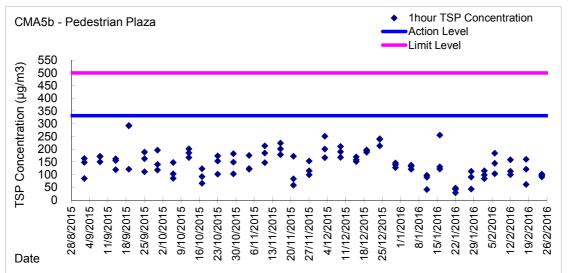
Graphic Presentation of 1 hour TSP Result

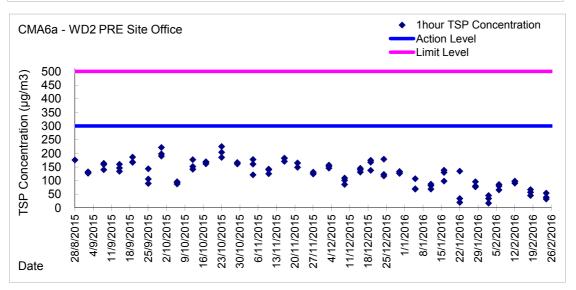




Graphic Presentation of 1 hour TSP Result

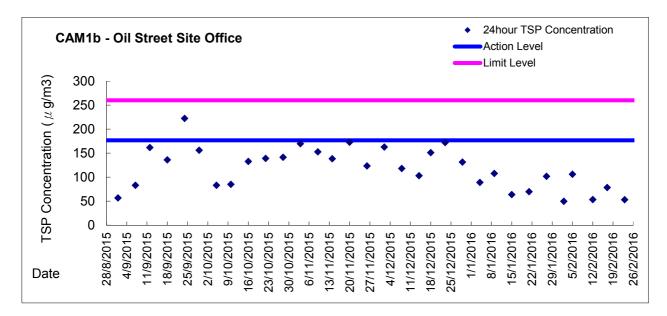


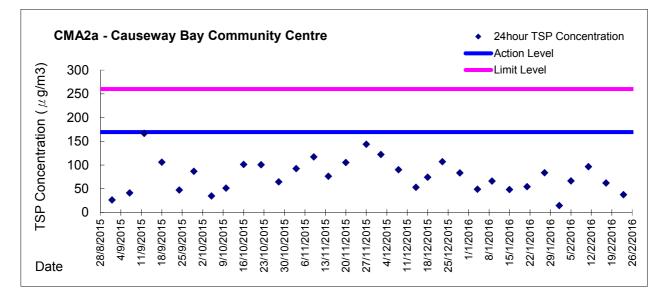


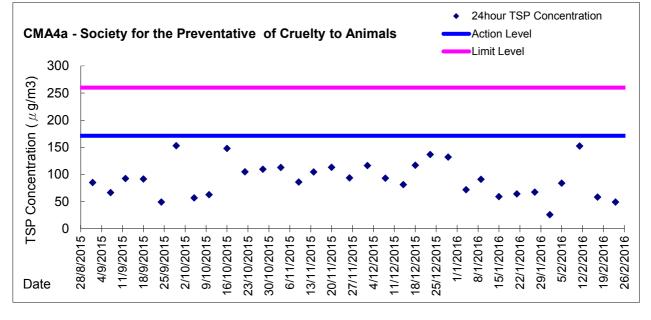




Graphic Presentation of 24 hour TSP Result

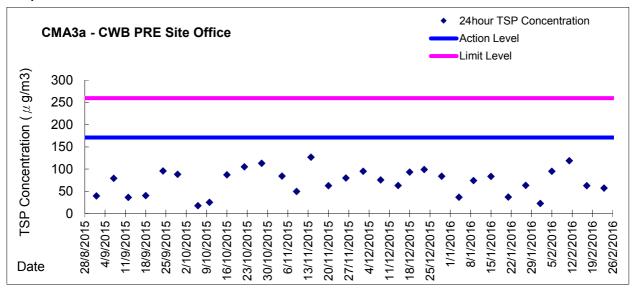


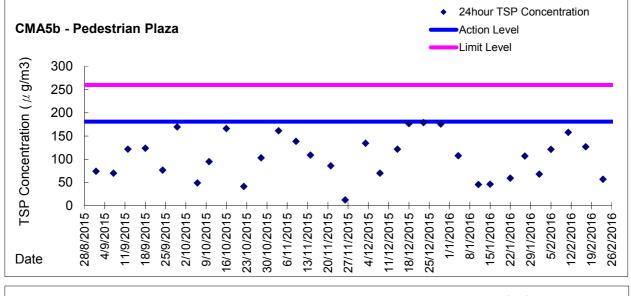


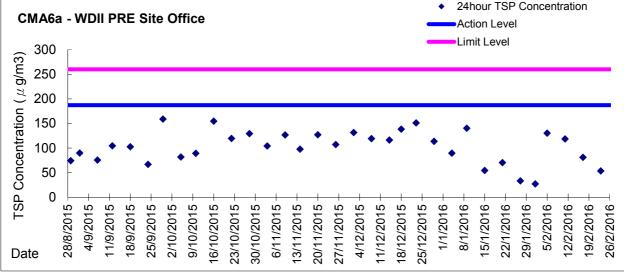




Graphic Presentation of 24 hour TSP Result





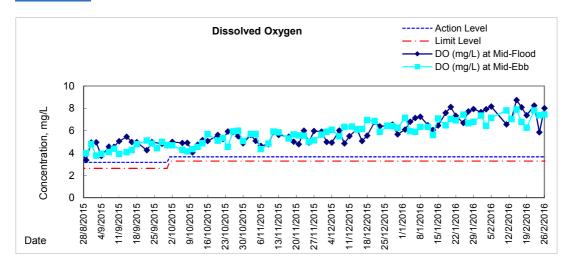


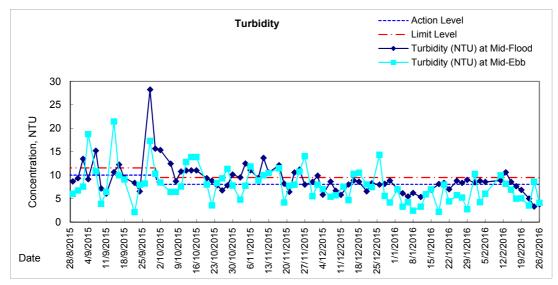


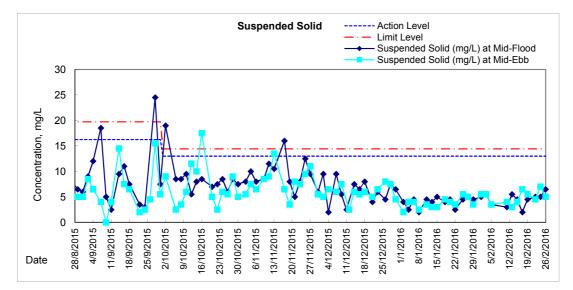
Appendix 4.3

Water Quality Monitoring Graphical Presentations

Graphic Presentation of Water Quality Result of WSD19 - Sheung Wan

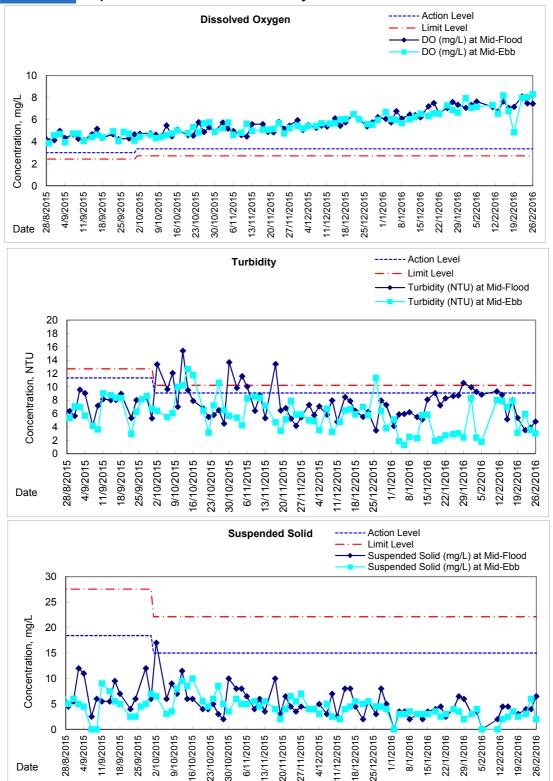




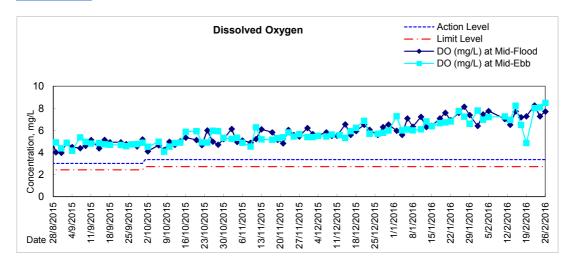


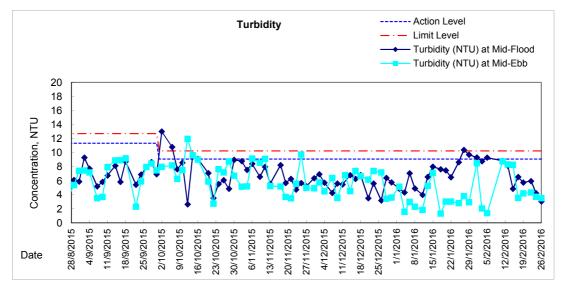


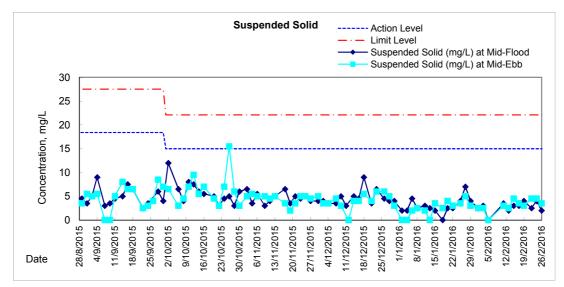
Graphic Presentation of Water Quality Result of C1 - HKCEC



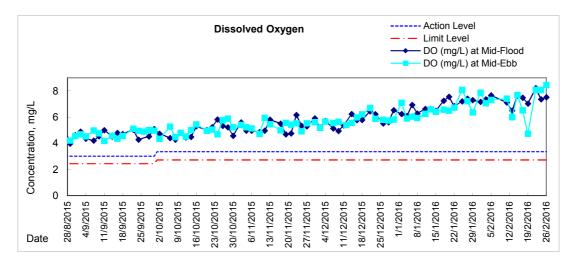
Graphic Presentation of Water Quality Result of P1 - HKCEC Phase I

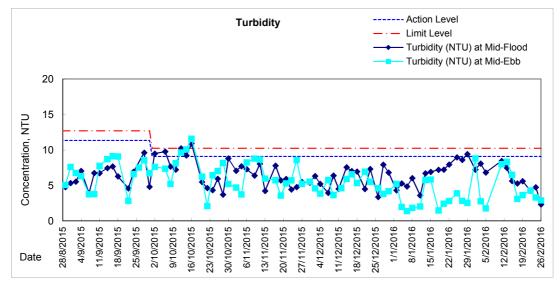


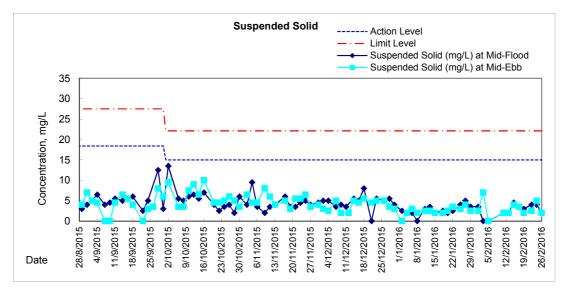




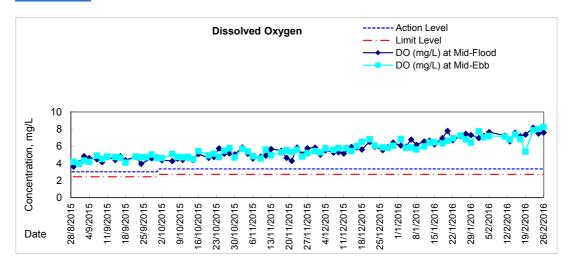
Graphic Presentation of Water Quality Result of P3 - APA

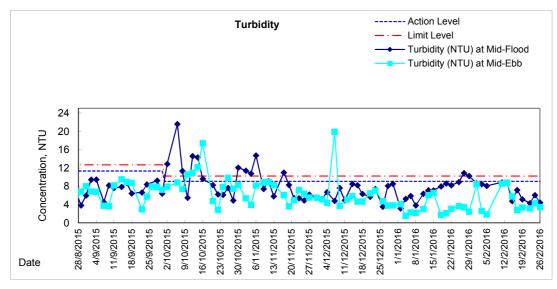


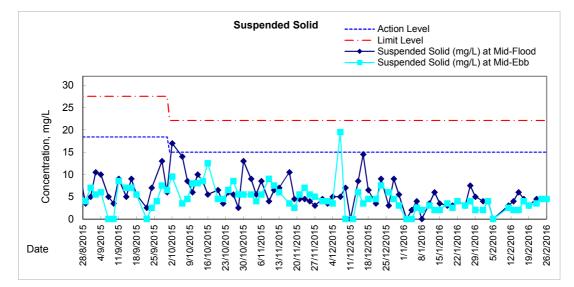




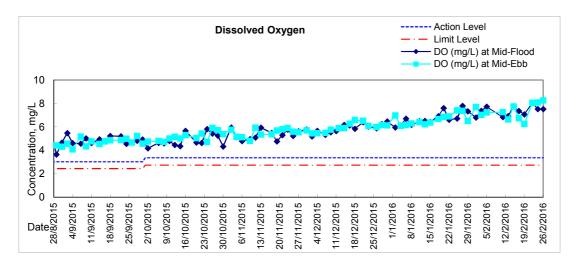
Graphic Presentation of Water Quality Result of P5 - WCT / RT / IT

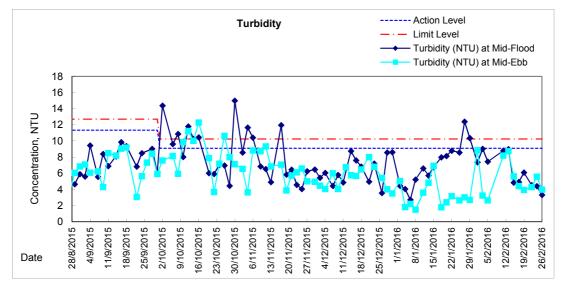


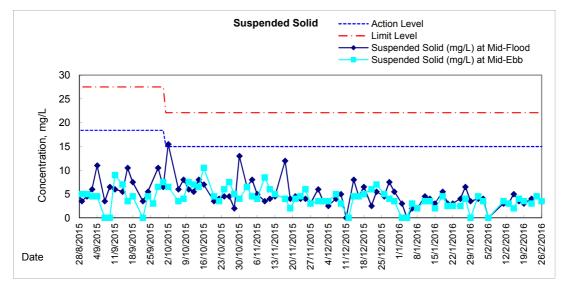


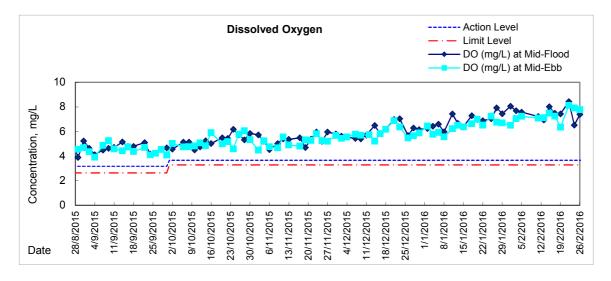


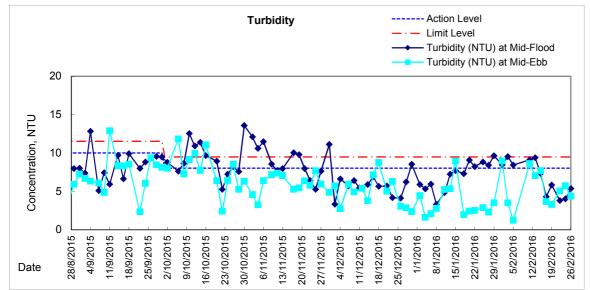
Graphic Presentation of Water Quality Result of P4 - SOC

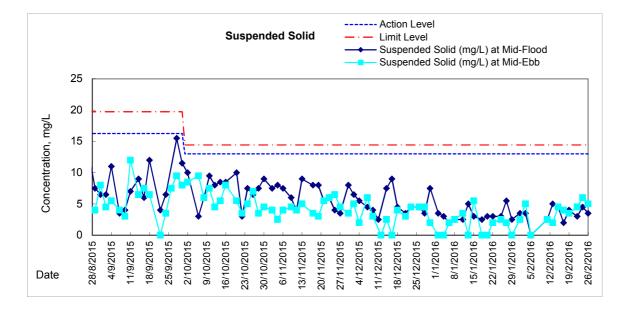


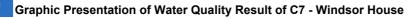


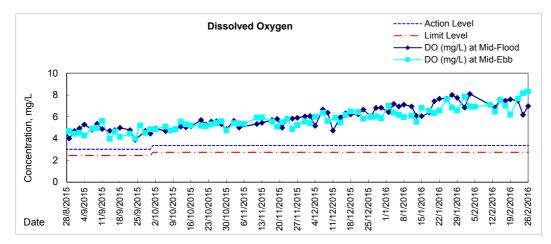


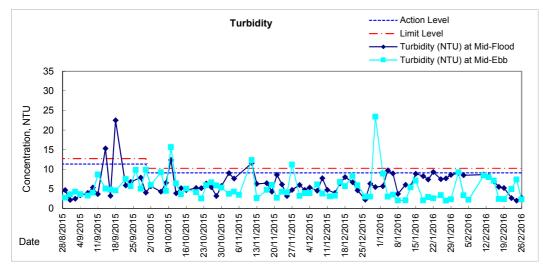


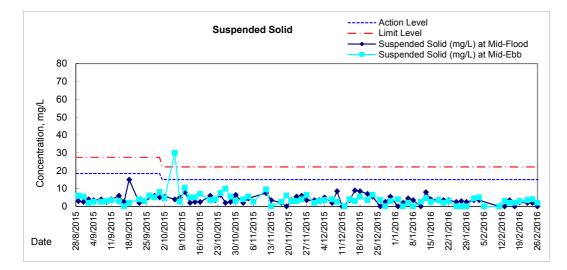




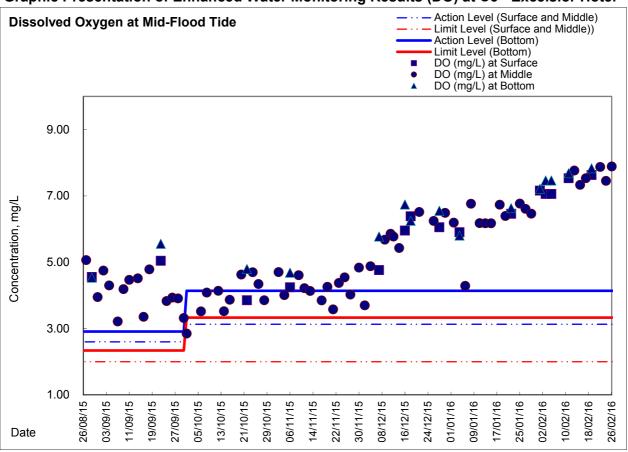




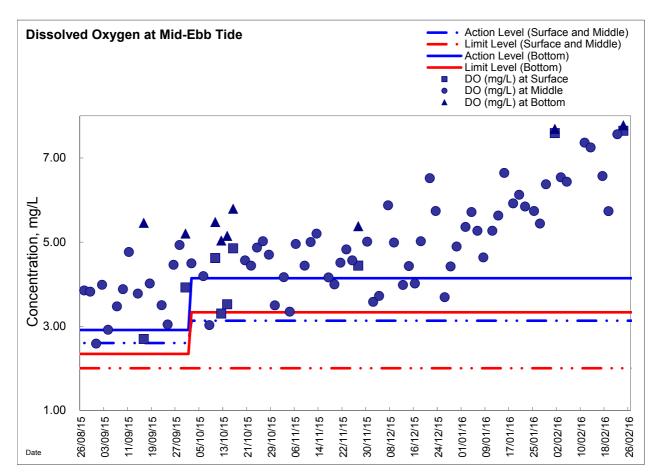






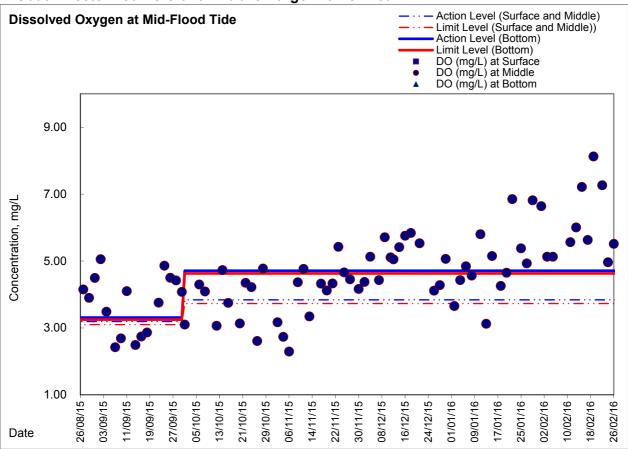


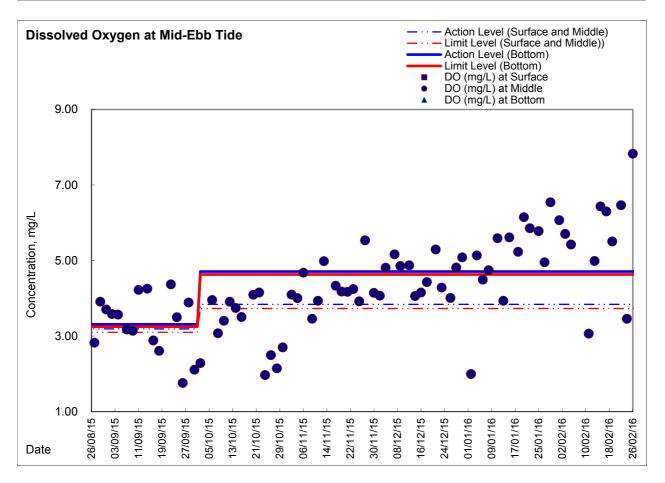
Graphic Presentation of Enhanced Water Monitoring Results (DO) at C6 - Excelsior Hotel





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





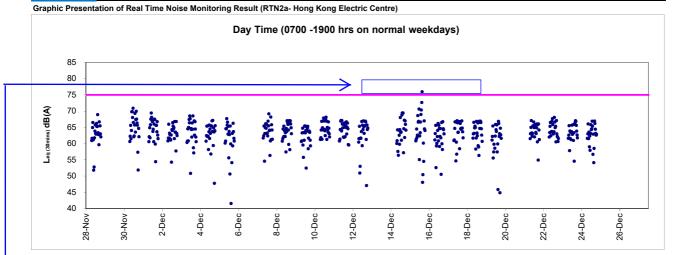


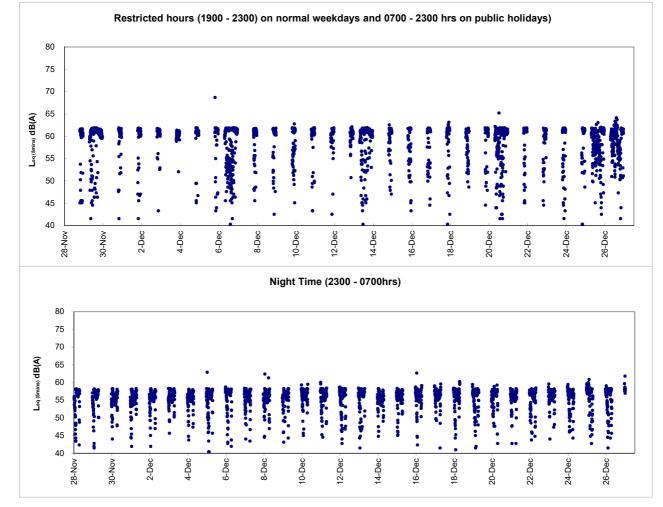
Appendix 4.4

Real-time Noise Monitoring Results and Graphical Presentations



Contract no. HK/2011/07 Wanchai Development Phase II and Central Wanchai Bypass Sampling, Field Measurement and Testing Works (Stage 2)





After checking with Contractor of HY/2009/19, on 15 December 2015, concreting was undertaken by Contract HY/2009/19 while steel bar cutting works for Hong Kong Electric Centre was conducted at the roof top by non-CWB Contractor immediately next to the noise monitoring station. In view of the mitigation measures implemented and the non-CWB works conducted next to the monitoring station as major noise contribution, the exceedance was considered as non-Project related.



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		A	CTION	
	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).	.,	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	A public complaint and enquiry regarding loud noises emanated 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	come	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 fer no wob to)	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	Ĺ	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
	01:45a.m.	Block 11, City Garden by ICC referral from Marine Department Ms Lui, the	City Garden, North	the dredging plant off North Point Two barges were generating noise at 22:00 on 6 December	2)	The first investigation was carried out Department patrol in the morning on 3 Dec 20 10:00 and revealed that a few working anchoring in the vicinity without carrying work. A further specific investigation inspection or backhoe barge in the vicinity of City Garde conducted with Engineer Representatives (A and ET on 8 Dec 2010 at 11:30. No bad odd during the investigation. Routine dredging operation of the backhoo performed during the jointed investigation ins was revealed that no bad odour was attrii dredged materials inspected. ET confirmed the following information with	010 at around barges were out dredging n contractor's en was jointly ECOM/RSS), pur was noted the barge was spection and it buted by the



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 compliant 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	tcome	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.	1) 2) 3)	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. It is considered as invalid complaint under this Project.	Closed
110617	9/06/2011	Mr. Law from Victoria Centre Management Office	North Point	An odour nuisance suspected generating from the discharge point – Channel T at Watson Road in part of the site area was related to CWB under Contract no. HY/2009/11	1)	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. 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.	Closed
					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	Out	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	Victoria Centre by ICC no. 1- 303887687 Department published a notice in their Management Office about construction works will be conducted from 0700 hours to 2300 hours during July to December 2011 including	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)	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	2, Victoria Centre by ICC no. 1- 304013959 conducted at Causeway Bay Typhoon Shelter at 7am on 23 July 2011. She complained tha the works shall be started late	Reclamation work was 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	1) 2)	It was referred by AECOM to ET on 8 August 2011 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			
				to the vicinity of the residents in early morning	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



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				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.	
110727b	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	1)	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 started at 8am.	
	08/08/2011				4)	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) Ro	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	
					Ne	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	nuisance generated from the works at Convention Avenue	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 noise source during this period.	
					3)	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.	 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. 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. 	Waiting RSS respond
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 	Keep in view for three months from the date of complaint recevied



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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	Closed
						1823. HyD replied that the current works at CBTS were drilling, diaphragm wall construction and deep excavations. In order to minimize the noise generated	



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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.	 WSII RSS team notified ET on 12 June 2014; Notification letter from EPD (ref: EP/860/F2/24 Annex IV) was received by ET on 13 June 2014. ET confirmed with RSS that neither marine construction works nor barge operation was conducted at the concerned location during the time of complaint. With respect to the complaint case, muddy dispersion was observed at HKCEC2W works area on 12 June 2014, and 	Interim Report was submitted to EPD on 20 June 2014.



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					3)	the dispersion was observed partly extended beyond the outermost layer silt curtain at 1000hrs. Immediate follow up action was requested. It is considered that Contractor's mitigation measures would require further review on the effectiveness to avoid seepage of muddy dispersion such as regular diver inspection check and daily visual checking of silt curtains. Additional silt curtain at marine access zone was installed by Contractor on 12 June 2014 and the double layer silt curtain were generally in order. Follow-up inspection was further conducted on 16 June 2014. The Contractor's investigation report 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.	1) 2) 3)	case was submitted to EPA via email on 18 June 2014. Construction noise impact referred by RSS was received by ET on 25 July 2014 ET confirmed with RSS that horizontal cutting and removal of D-wall at Eastern, Southern and Northern side of TS2 was undertaken by Contractor of HY/2009/15 within Causeway Bay Typhoon Shelter before 23:00hrs on 20 July 2014 that total 3 numbers of derrick lighter and 3 numbers of saw cut machine were in operation, and removal of D-wall at Panel S30A-1 of TS2 was undertaken by Contractor of HY/2009/15 within Causeway Bay Typhoon Shelter around 00:25hrs to 00:56hrs on 21 July 2014 that total 1 number of derrick lighter was in operation. According to the relevant site records under Contract HY/2009/15, before 23:00hrs on 20 July 2014, horizontal cutting and removal of Diaphragm Wall at Eastern, Southern and Northern side of TS2 was conducted under HY/2009/15 within Causeway Bay Typhoon Shelter. Total 3 nos. of derrick lighter and 3 nos. of saw cut machine were in operation at the above period. From around 00:25hrs to 00:56hrs on 21 July 2014, removal of D-wall at Panel S30A-1 of TS2 was undertaken by Contractor of HY/2009/15 within Causeway Bay Typhoon Shelter. Total 2 hand S30A-1 of TS2 was undertaken by Contractor of HY/2009/15 within Causeway Bay Typhoon Shelter. Total	Final report (Issue1) issued on 31 July 2014. Further to complainant follow-up, Final report (Issue2) Issued on 12 Aug 2014.
					4)	1 no. of derrick lighter was found operating at the above period It was considered the condition of CNP GW-RS0592-14 was not fulfilled by the Contractor of HY/2009/15. "From 00:25hrs to 00:57hrs on 21 July 2014, the PME(s) (1 no. of Derrick Lighter) on-site could not follow with any given PME grouping requirement(s) as stated in condition 3.a. and condition 3.d. in no. GW-RS0592-14."	



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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 	
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.	 works. 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. 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. 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. 	Interim investigation report submitted to EPD on 23 October 2014. Updated interim investigatio n with supplement ary information submitted to EPD on 17 November 2014



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				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 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 06:00hrs, 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.	
				In view of the above findings, no direct information associated with the noise concern was considered available.	
					Complaint and Received By Complainant Image: Complain and Perceived By Complain and Perceived By Complain and Perceived By Conducted under Contractor of HK/2009/02 at the Temporary Covered Walkway. Image: Complain and Perceived By Image: Complain and By From 23:00 hrs to 06:00 hrs, trial pit works was conducted under Contractor of HK/2009/02 at Hung Hing Road. Total one crane lorry was in operation. Image: Complain and Perceived By Image: Complain and Perceived By From 23:00 hrs to 06:00 hrs, trial pit works was conducted under Contractor of HK/2009/02 at Hung Hing Road. Total one crane lorry was in operation. Image: Complain and Perceived By Image: Complain and Perceived By According to the relevant site records under Contract HK/2009/02, from 19:00 hrs to 23:00 hrs to 10 contractor of HK/2009/02. Image: Complain and Perceived By Image: Complain and Perceived By Image: Complain and Perceived By Image: Complain and Perceived By Image: Complain and Perceived By Image: Complain and Perceived By Image: Complain and Perceived By Image: Complain and Perceived By Image: Complain and Perceived By Image: Complain and Perceived By Image: Complain and Perceived By Image: Complain and Perceived By Image: Complain and Perceived By Image: Complain and Perceived By Image: Complain and Perceived By I



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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



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					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



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
		2015	Ground	other construction plants under operation from the reclamation construction site	moored 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 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
					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.	
150723	20 July 2015	EPD Ref.:H05/RS/ 00018040-15 dated 23 July 2015	Ex-Wanchai Ferry Pier near 720 & & 722 Bus stop	Malodour from marine sediment	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. 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.	Interim report submitted to EPD on 30 July 2015.



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 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 hopper barge was implemented by the Contractor of HK/2009/02 on the concerned date. Follow-up inspection	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.



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
Log No.	Complaint	and Received By	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.	
					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 and the Construction Noise Permit GW-RS0296-15 for the concerned operation was confirmed in place.	



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
					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
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.



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.	
151117	Not specified	EPD complaint received by ET on 17 Novmeber 2015	Causeway Bay Typhoon Shelter	Improper handling or bentonite and marine sediment generated from construction works and contaminated discharge from water treatment plant into Victoria Habour	A public complaint regarding illegal disposal of construction waste referred by EPD was received by ET on 17 November 2015. The complainant reported that over 10,000 m3 of bentonite after usage for construction of diaphragm wall was disposed of at Victoria Habour. The Contractor recently deployed mobile crane to transfer the bentonite from mud pit on to works barge. The bentonite was then mixed with soil and transported to the Public Fill. During the course, seepage of slurry through grab generated drop off to marine waters and the soil mixing generated dust impact to nearby yacht club, typhoon shelter and affect nearby public and boats. Disposal of dredged marine sediment was not carried out in accordance with the Management of Dredged/Excavated Sediment. Instead the marine sediment was covered by sand and soil and transported to the Public Fill. White or greyish effluent was discharged directly into Victoria Habour marine waters from wastewater treatment plant on construction site.	Interim investigation report submitted to EPD on 24 November 2015. 2nd interim investigation report submitted to EPD on 17 December 2015. 3rd interim investigation report submitted to EPD on 31 December 2015. Final



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					In response to the complaint concern, additional water quality monitoring and additional site inspections have been conducted by the ET and the investigation findings were included in the interim investigation reports separately submitted to the EPD. In addition, the ET and IEC have conducted checking on the waste disposal records and site construction records with the CWB RSS team to confirm the key construction activities during the concerned period and the quantities of inert C&D material disposed. Upon further review on relevant records and follow up inspections on the implementation of site measures, the final investigation would be issued.	



Appendix 7.1

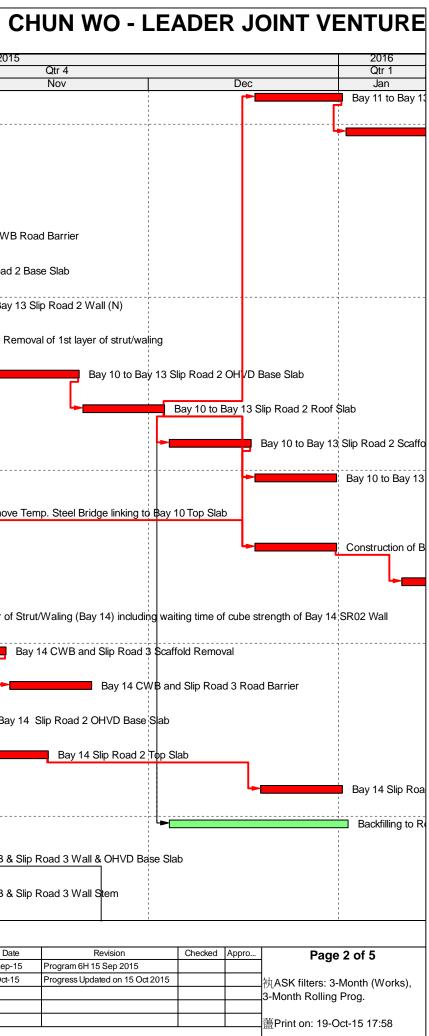
Construction Programme of Individual Contracts

D	Activity Name	OD	Start	Finish	2015 Qtr 4
(/2000/01 Pov	sed Works Progress Rev. 6H (Data Date: 15 Oct 15)				Oct Nov Dec
Section 3 of the \	Norks - CWB Tunnel, Slip Roads 2 & 3, Works in Area 8				
CWB Tunnelling	y Works (Stage 1 : CH2947 - CH3045)				
Stage 1 - Tur	nel Structure Works (Bay 1 to Bay 7 : Ch2947 - Ch 3045)				
Tunnel Str	ucture at Stage 1A & 1B (CH2947 - CH3045)				
S3A-TS	-2080 Backfilling to formation level for Stage 1B (CH 80 to CH 120)	200	19-Jan-15 A	15-Nov-15	Backfilling to formation level for Stage 1B (CH 80 to CH 120)
CWB Tunnelling	y Works (Stage 2 : Ch3045 - Ch3129)				
Stage 2 - Tur	nel Structure Works (Bay 7 to Bay 10 : CH3045 - CH3129)				
S3B-TS-11	60C2 Construction of Bay 9 Slip Road 2 Wall	10	26-Sep-15 A	21-Oct-15	Construction of Bay 9 Slip Road 2 Wall
S3B-TS-11	60C3 Construction of Bay 9 Slip Road 2 Road Barrier	14	07-Oct-15 A	19-Oct-15	Construction of Bay 9 Slip Road 2 Road Barrier
S3B-TS-11		14	14-Oct-15 A	27-Oct-15	Construction of Retaining Wall 2 Road Barrier including Demolish of Temporary Dwall to Cut-o
S3B-TS-11	ofTemporary Dwall to Cut-off Level 65A1 Construction of Bay 9 Slip Road 3 Top Slab & Portal Wall	25	05-Oct-15 A	18-Oct-15	Construction of Bay 9 Slip Road 3 Top Slab & Portal Wall
S3B-TS-11	65B Construction of Bay 7, 8 & 9 Slip Road 3 Road Barrier	10	20-Aug-15 A	08-Nov-15	Construction of Bay 7, 8 & 9 Slip Road 3 Road Barrier
S3B-TS-11	65E Construction of Bay 4, 5 & 6 Slip Road 3 Road Barrier	14	24-Sep-15 A	28-Oct-15	Construction of Bay 4, 5 & 6 Slip Road 3 Road Barrier
S3B-TS-11	80A Bay 9b & 10 CWB Road Barrier	20	03-Oct-15 A	22-Oct-15	Bay 9b & 10 CWB Road Barrier
S3B-TS-90	00A Backfilling to Formation Level (CWB) - 12,000cu.m	20	03-Aug-15 A	22-Dec-15	Backfilling to Form
		20	03-Aug-13 A	22-Dec-13	
CWB Tunnellin g	y Works (Stage 3 : Ch3129 - Ch3245)				
Stage 3 - Exc	avation Works (Ch3129 - Ch3245)				
Excavatio	n Works at Stage 3				
S3C-EV	/-1010E Excavation to -16mPD (approx 55,000m3)	100	13-Mar-15 A	31-Oct-15	Excavation to -16mPD (approx 55,000m3)
Stage 3 - Tur	nel Structure Works (Bay 11 to Bay 20 : Ch3129 - Ch3245)				
Tunnel Sti	ucture at Stage 3A & 3B (CH3129 - CH3245)				
S3C-TS	-2000E Bay 11 to Bay 13 Slip Road 3 Wall	10	22-Oct-15	31-Oct-15	Bay 11 to Bay 13 Slip Road 3 Wall
S3C-TS	-2000E Access reseved for HyD's CC prior to completion of Slip Road 2	80	01-Nov-15	17-Dec-15	Access reseved for HyD
	Remaining Work Su	mma		CEDD	O. HK/2009/01 Date Revision Checked Appro Page 1 of \$
	Actual Work				In Chai Bypass at HKCEC (Contract 1)

			Remaining Work	Summa	CEDD CONTRACT NO. HK/2009/01	Date	Revision
			· · · J · ·	, cannam		15-Sep-15	Program 6H 15 Sep 2015
			Actual Work		Wan Chai Development Phase II - Central-Wan Chai Bypass at HKCEC (Contract 1)	15-Oct-15	Progress Updated on 15 O
			Summary Bar		wan chai Development Phase II - Central-Wan chai Dypass at INCEC (Contract 1)		
			Critical Remaining Work				
♦ ♦ Milestone		Milestone	WORKS PROGRAMME Rev.4 - 3 Month Programme starting from 15-Oct-15				
							<u> </u>

vity ID		Activity Name	OD	Start	Finish	2015				
						lon.	Oct	Qtr 4 Nov		
	S3C-TS-2000E	Bay 11 to Bay 13 Slip Road 3 OHVD Base Slab	15	18-Dec-15	01-Jan-16	iep	Od	NOV		
	\$3C-TS-2000E	Bay 11 to Bay 13 Slip Road 3 Top Slab	15	02-Jan-16	16-Jan-16			1 		
	000-10-2000L	bay in to bay is slip road s rop slab	15	02-3an-10	10-3411-10					
	S3C-TS-2000E	Bay 11 to Bay 13 Slip Road 3 Scaffold Removal	14	17-Jan-16	30-Jan-16					
	S3C-TS-2000E	Bay 11 to Bay 13 Slip Road 3 Road Barrier	13	31-Jan-16	12-Feb-16	-				
	S3C-TS-200011	Bay 11 to Bay 13 CWB Road Barrier	20	02-Oct-15 A	21-Oct-15		Bay 11 to	Bay 13 CWB Road Barrier		
	S3C-TS-2000K	Bay 10 to Bay 13 Slip Road 2 Base Slab	10	06-Oct-15 A	17-Oct-15	-	Bay 10 to Bay 1	3 Slip Road 2 Base Slab		
	S3C-TS-2000L	Bay 10 to Bay 13 Slip Road 2 Wall (N)	10	18-Oct-15	27-Oct-15			y 10 to Bay 13 Slip Road 2 Wall (N)		
	S3C-TS-2000L	Removal of 1st layer of strut/waling	9	28-Oct-15	05-Nov-15	_		Removal of 1st layer of strut/wa		
	S3C-TS-2000L	Bay 10 to Bay 13 Slip Road 2 OHVD Base Slab	14	06-Nov-15	19-Nov-15	_		Bay 10 to Ba		
	S3C-TS-2000L	2 Bay 10 to Bay 13 Slip Road 2 Roof Slab	14	20-Nov-15	03-Dec-15	_		L		
	S3C-TS-2000L	2 Bay 10 to Bay 13 Slip Road 2 Scaffold Removal	14	04-Dec-15	17-Dec-15	_				
	S3C-TS-2000L	Bay 10 to Bay 13 Slip Road 2 Road Barrier	14	18-Dec-15	31-Dec-15					
	S3c-TS-2000l4	Remove Temp. Steel Bridge linking to Bay 10 Top Slab	7	26-Oct-15*	01-Nov-15	_		Remove Temp. Steel Bridge linking to		
	S3C-TS-2000M	Construction of Bay 10 Slip Road 3 Wall & Roof Slab	14	18-Dec-15	31-Dec-15	_				
	S3C-TS-2000N	Construction of Bay 10 Slip Road 3 Road Barrier	7	11-Jan-16	17-Jan-16	_				
	S3C-TS-2030D	Remove 2nd layer of Strut/Waling (Bay 14) including waiting time of cube strength of Bay 14 SR02 Wall	7	06-Oct-15 A	22-Oct-15	_	Remove	2nd layer of Strut/Waling (Bay 14) includii		
	S3C-TS-2030H	Bay 14 CWB and Slip Road 3 Scaffold Removal	10	28-Oct-15*	07-Nov-15			Bay 14 CWB and Slip Road		
	S3C-TS-2030H	Bay 14 CWB and Slip Road 3 Road Barrier	14	08-Nov-15	21-Nov-15	_		Bay 14 CV		
	S3C-TS-2030I	Bay 14 Slip Road 2 OHVD Base Slab	14	22-Oct-15*	04-Nov-15	_		Bay 14 Slip Road 2 OHVD Base		
	S3C-TS-2030J	Bay 14 Slip Road 2 Top Slab	10	05-Nov-15	14-Nov-15	_		Bay 14 Slip Road 2		
	S3C-TS-2030J	1Bay 14 Slip Road 2 Road Barrier	14	19-Dec-15	01-Jan-16					
	S3C-TS-2030K	Backfilling to Road formation level from Bay 10 to Bay 14	30	04-Dec-15	02-Jan-16					
	S3C-TS-2090C	Bay 15,16 & 17 CWB & Slip Road 3 Wall & OHVD Base Slab	15	02-Oct-15 A	20-Oct-15		Bay 15,16	17 CWB & Slip Road 3 Wall & OHVD Ba		
	S3C-TS-2090C	Bay 15,16 & 17 CWB & Slip Road 3 Wall Stem	15	02-Oct-15 A	20-Oct-15	-	Bay 15,16	17 CWB & Slip Road 3 Wall Stem		

	Remaining Work		Summa	CEDD CONTRACT NO. HK/2009/01	Date	Revision
	Actual Work		C anina an		15-Sep-15	Program 6H 15 Sep 2015
				Wan Chai Development Phase II - Central-Wan Chai Bypass at HKCEC (Contract 1)	15-Oct-15	Progress Updated on 15 Oct
Summary Bar				-		
	Critical Remaining Work					
• •	Milestone			WORKS PROGRAMME Rev.4 - 3 Month Programme starting from 15-Oct-15		



CHUN WO -

	Activity Name	OD	Start	Finish				20	Qtr 4
					бер		Oct		Nov
S3C-TS-20900	Bay 15,16 & 17 CWB Road Barrier	20	05-Nov-15	24-Nov-15					
					_				
S3C-TS-20900	2 Bay 15,16 & 17 Slip Road 3 Road Barrier	14	25-Nov-15	08-Dec-15					L ⇒ [
		40	45 0 1 45	00.0.1.45		; ; ; ;			
S3C-1S-2090L	D Bay 15,16 & 17 Slip Road 2 OHVD Base Slab	16	15-Oct-15	30-Oct-15				Bay 15,16	8 & 17 Slip Road 2 OHV
S3C-TS-2090F	D Bay 15,16 & 17 Slip Road 2 Road Barrier	14	08-Dec-15	21-Dec-15	-	1			
S3C-TS-2110A	Bay 18, 19 & 20 CWB & Slip Road 2 & Slip Road 3 Base Slab	12	01-Nov-15	12-Nov-15	-				Bay 18, 19 & 20
					_				
S3C-TS-2110B	Removal of 2nd & 3rd layer of struts/wailer at Bay 18, 19 & 20	14	20-Nov-15	04-Dec-15		1			
\$3C-T\$-2110C	Bay 18, 19 & 20 CWB, Slip Road 3 & Slip Road 2 Wall	15	05-Dec-15	19-Dec-15	-				
000-10-21100		15	05-Dec-15	19-Dec-15					
S3C-TS-2110D	Bay 18, 19 & 20 CWB, Slip Road 3 & Slip Road 2 OHVD Base Slab	15	20-Dec-15	03-Jan-16		 			
S3C-TS-2110E	Bay 18, 19 & 20 CWB, Slip Road 3 and Slip Road 2 OHVD Wall Stem & Top Slab	20	04-Jan-16	23-Jan-16					
		47	04.1.40		_				
S3C-1S-2110E	Removal Scaffold at Bay 18 to 20	17	24-Jan-16	09-Feb-16					
S3C-TS-2110F	Bay 18, 19 & 20 CWB, Slip Road 3 and Slip Road 2 Road Barrier	9	10-Feb-16	18-Feb-16	-				
tion 8 of the Works	- Works in Area 6 (Utilities other than Watermains in Fenwick Pier	Street)						
Sewerage Works			00 1 1 45 4	00.0 + 45					
S8-3010	Planter Reinstatement	30	29-Jul-15 A	22-Oct-15				Planter Reinstateme	nt
S8-3020	Road Reinstatement	21	25-Sep-15 A	22-Oct-15				Road Reinstatemen	t
tion 9 of the Works	- Remaindar of the Works								
	tler.								
Box Culvert Construc	tion					1			
S9-1070	Backfill the Temporary Water Channel from East to West (BG/BI Connection	30	02-Jun-15 A	30-Nov-15		۱ +			
	Point at Water Channel)								
Reprovision of Expo I	Drive East								
		1							
S9-2050	Traffic Aid and Demolition of Remaining Portion of Existing Expo Drive East Bridge	45	30-Jul-15 A	30-Nov-15					
S9-2060	Construction of Retaining Wall Extension to Top of Box Culvert Bay 7	30	17-Jan-16	15-Feb-16					
/aterworks in Area 9			<u> </u>						
								· · · · · · · · · · · · · · · · · · ·	
Abandaned Pipes R	Removal								
<u> </u>	Zer e A4.4 Alter des ed Dines DZ/D0 Desteur Warks	20	44.0+45.4	07 Dec 45					
S9-7090	Zone A4-4 Abandoned Pipes P7/P9 Removal Works	30	14-Oct-15 A	07-Dec-15					
	<u> </u>					1		1	
								- I -	
	Remaining Work Summa			CEDD	CONTRACT NO	HK/2009/01		Da 15-Sep	ate Revision -15 Program 6H 15 Sep
	Actual Work	Wan	Chai Davalar		e II - Central-Wan				
	Summary Bar	vvan	Chai Develop	ment Phase		Chai Dypass	attinuc		
	Summary Bar Critical Remaining Work								
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ase Slab		
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/B & Slip Road	d 2 & Slip Roa	ad 3 Base Slab
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Rem	noval of 2nd &	k 3rd layer of struts/wailer at Bay 18,
		Bay 18, 19 & 20 CWB, Slip Road
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	-	Bay 18, 19 &
Backfill the	Temporary	Water Channel from East to West (I
	e remporary	
Traffic Aid	and Demoliti	on of Remaining Portion of Existing
	7000 1 4 4 4	endered Direc DZ/DO De service 114/
	∠one A4-4 Ab	oandoned Pipes P7/P9 Removal Wo
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Milestone

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	Activity Name	OD	Start	Finish			2015 Qtr 4
S9-7100	Zone X1-4a Abandoned Pipes P5 Removal Works	14	20-Oct-15*	08-Dec-15	ер	Oct	Nov
39-7100		14	20-001-13	00-Dec-13			
ection 9A of the Work	ks - Landscape Softworks in Area 9						
S9A-1000	Transplanting at Expo Drive East and Convention Avenue Junction	180	15-Oct-15	11-Apr-16			
S9A-2000	Landscape Softworks in Area 9 Footpath	60	15-Oct-15	30-Dec-15			
S9A-3000	Completion of the Landscape Softworks in Area 9	0		30-Dec-15	-		
ection 9B of the Worl	ks - Establishment Works in Area 9						
S9B-1000	Establishment Works at Area 9	365	11-Apr-16	10-Apr-17			
ariation Order No.153	3 - Design and Construct CWB Bypass Tunnel from CH3246 to C	H3278					
Preliminaries							
Major Method State	ement & Design Submission and Approval						
DS-0020	ELS Design Submission	28	15-Oct-15	28-Oct-15			ELS Design Submission
DS-0040	Tunnel Structure Design Submission	28	09-Dec-15	16-Jan-16	-		
MS-0040	Method Statement for Tunnel Excavation in Area 8	7	29-Oct-15	04-Nov-15	-	l	Method Statement for T
MS-0060	Method Statement for Tunnel Construction in Area 8	14	05-Nov-15	18-Nov-15			
Works at Area 8 - C W	B Tunnel, Slip Roads 2 & 3, Works in Area 8						
CWB Tunnelling W							
	lorks (Stage 4: Ch3246 - Ch3278)						
Stage 4 - Pre-bo	red H-pile and Dewatering Works (CH3246 - CH3278)		15 0.1 15				
Stage 4 - Pre-bo		14	15-Oct-15	28-Oct-15			Installation of Surface Pump Wells
Stage 4 - Pre-bo S4-FW-0020	red H-pile and Dewatering Works (CH3246 - CH3278)	14	15-Oct-15	28-Oct-15			Installation of Surface Pump Welk
Stage 4 - Pre-bo S4-FW-0020	Installation of Surface Pump Wells (6 nos)	14	15-Oct-15 26-Jun-15 A	28-Oct-15 12-Nov-15			
Stage 4 - Pre-bo S4-FW-0020 Stage 4 - Excava	Installation of Surface Pump Wells (6 nos) ation Works (CH3246 - CH3278) include Demolition of C2E BH Wall Stage 4 ELS - excavate to approx1.5mPD and installation of 1st layer						
Stage 4 - Pre-bo S4-FW-0020 Stage 4 - Excava S4-EW-0010	Pred H-pile and Dewatering Works (CH3246 - CH3278) Installation of Surface Pump Wells (6 nos) ation Works (CH3246 - CH3278) include Demolition of C2E BH Wall Stage 4 ELS - excavate to approx1.5mPD and installation of 1st layer strut/waling at -0.5mPD (approx. 6700 cu.m) Stage 4 ELS - excavate to approx5.7mPD and installation of 2nd layer	21	26-Jun-15 A	12-Nov-15			
Stage 4 - Pre-bo S4-FW-0020 Stage 4 - Excava S4-EW-0010 S4-EW-0020	Installation of Surface Pump Wells (6 nos) ation Works (CH3246 - CH3278) Include Demolition of C2E BH Wall Stage 4 ELS - excavate to approx1.5mPD and installation of 1st layer strut/waling at -0.5mPD (approx5.7mPD and installation of 2nd layer strut/waling at -4.7mPD (approx600 cu.m) Stage 4 ELS - excavate to approx10mPD and installation of 3rd layer	21	26-Jun-15 A 13-Nov-15	12-Nov-15 04-Dec-15			
Stage 4 - Pre-bo S4-FW-0020 Stage 4 - Excava S4-EW-0010 S4-EW-0020 S4-EW-0020 S4-EW-0030 S4-EW-0050	Pred H-pile and Dewatering Works (CH3246 - CH3278) Installation of Surface Pump Wells (6 nos) ation Works (CH3246 - CH3278) include Demolition of C2E BH Wall Stage 4 ELS - excavate to approx1.5mPD and installation of 1st layer strut/waling at -0.5mPD (approx. 6700 cu.m) Stage 4 ELS - excavate to approx5.7mPD and installation of 2nd layer strut/waling at -4.7mPD (approx. 6600 cu.m) Stage 4 ELS - excavate to approx10mPD and installation of 3rd layer strut/waling at -9mPD (approx. 6700 cu.m) Stage 4 ELS - excavate to approx10mPD and installation of 3rd layer strut/waling at -9mPD (approx. 6700 cu.m) Stage 4 ELS - excavate to formation approx15.3mPD (approx. 10,000	21 21 21 21	26-Jun-15 A 13-Nov-15 05-Dec-15	12-Nov-15 04-Dec-15 26-Dec-15			Installation of Surface Pump Wells
Stage 4 - Pre-bo S4-FW-0020 Stage 4 - Excava S4-EW-0010 S4-EW-0020 S4-EW-0020 S4-EW-0030 S4-EW-0050	Pred H-pile and Dewatering Works (CH3246 - CH3278) Installation of Surface Pump Wells (6 nos) ation Works (CH3246 - CH3278) include Demolition of C2E BH Wall Stage 4 ELS - excavate to approx1.5mPD and installation of 1st layer strut/waling at -0.5mPD (approx. 6700 cu.m) Stage 4 ELS - excavate to approx5.7mPD and installation of 2nd layer strut/waling at -4.7mPD (approx. 6600 cu.m) Stage 4 ELS - excavate to approx10mPD and installation of 3rd layer strut/waling at -9mPD (approx. 6700 cu.m) Stage 4 ELS - excavate to approx10mPD and installation of 3rd layer strut/waling at -9mPD (approx. 6700 cu.m) Stage 4 ELS - excavate to formation approx15.3mPD (approx. 10,000 cu.m)	21 21 21 21	26-Jun-15 A 13-Nov-15 05-Dec-15	12-Nov-15 04-Dec-15 26-Dec-15			
Stage 4 - Pre-bo S4-FW-0020 Stage 4 - Excava S4-EW-0010 S4-EW-0020 S4-EW-0020 S4-EW-0030 S4-EW-0050	Pred H-pile and Dewatering Works (CH3246 - CH3278) Installation of Surface Pump Wells (6 nos) ation Works (CH3246 - CH3278) include Demolition of C2E BH Wall Stage 4 ELS - excavate to approx1.5mPD and installation of 1st layer strut/waling at -0.5mPD (approx. 6700 cu.m) Stage 4 ELS - excavate to approx5.7mPD and installation of 2nd layer strut/waling at -4.7mPD (approx. 6600 cu.m) Stage 4 ELS - excavate to approx10mPD and installation of 3rd layer strut/waling at -9mPD (approx. 6700 cu.m) Stage 4 ELS - excavate to approx10mPD and installation of 3rd layer strut/waling at -9mPD (approx. 6700 cu.m) Stage 4 ELS - excavate to formation approx15.3mPD (approx. 10,000 cu.m)	21 21 21 20	26-Jun-15 A 13-Nov-15 05-Dec-15	12-Nov-15 04-Dec-15 26-Dec-15 16-Jan-16	CONTRACT NO. HK/200	09/01	

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A	Activity ID		Activity Name	OD	Start	Finish				2015	
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		S4-TS-0005	Pile Head Fabrication	15	11-Jan-16	24-Jan-16					
		S4-TS-0010	Bay 21 Base Slab	10	25-Jan-16	03-Feb-16					
		S4-TS-0020	Bay 22 Base Slab	10	28-Jan-16	06-Feb-16	-				
		S4-TS-0030	Removal of 2nd and 3rd layer of Strut/Waling	28	07-Feb-16	06-Mar-16	-				
		S4-TS-0040	Bay 21 & 22 Wall	15	07-Mar-16	22-Mar-16		I 			
		S4-TS-0050	Bay 21 & 22 Wall & OHVD Base Slab	15	23-Mar-16	06-Apr-16	-				
		S4-TS-0060	Bay 21 & 22 OHVD Wall Stem and Top Slab	15	07-Apr-16	22-Apr-16	-				

Remaining Work	Summa	CEDD CONTRACT NO. HK/2009/01	Date	Revision
Actual Work			15-Sep-15	Program 6H 15 Sep 2015
		Wan Chai Development Phase II - Central-Wan Chai Bypass at HKCEC (Contract 1)	15-Oct-15	Progress Updated on 15 O
Summary Bar		wan char Development i hase ii - Central-Wan char Dypass at intele (Contract i)		
Critical Remaining Work		WORKS REACEANINE Roy 4 2 Month Brogramme starting from 15 Oct 15		
♦ Milestone		WORKS PROGRAMME Rev.4 - 3 Month Programme starting from 15-Oct-15		
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y ID	Activity Name	OD	Start	Finish	2015			2016 Qtr 1	
						Jan		Feb	
HK/2009/01 - Revis	sed Works Progress Rev. 6H (Data Date: 20 Jan 16)								
Section 3 of the W	Vorks - CWB Tunnel, Slip Roads 2 & 3, Works in Area 8								
CWB Tunnelling	Works (Stage 1 : CH2947 - CH3045)								
Stage 1 - Tuni	nel Structure Works (Bay 1 to Bay 7 : Ch2947 - Ch 3045)								
Tunnel Stru	ucture at Stage 1A & 1B (CH2947 - CH3045)								
S3A-TS-2	2080 Backfilling to formation level for Stage 1B (CH 80 to CH 120)	200d	19/01/15 A	05/02/16				Backfilling to formation leve	el for Stag
CWB Tunnelling	Works (Stage 2 : Ch3045 - Ch3129)								
Stage 2 - Tuni	nel Structure Works (Bay 7 to Bay 10 : CH3045 - CH3129)								
S3B-TS-900	DOA Backfilling to Formation Level (CWB) - 12,000cu.m	20d	29/12/15 A	05/02/16				Backfilling to Formation Le	vel (CWB
CWB Tunnelling	Works (Stage 3 : Ch3129 - Ch3245)								
Stage 3 - Tuni	nel Structure Works (Bay 11 to Bay 20 : Ch3129 - Ch3245)								1 1 1 1 1
Tunnel Stru	ucture at Stage 3A & 3B (CH3129 - CH3245)								
S3C-TS-	2000E Bay 10 to Bay 13 Slip Road 3 Top Slab	15d	25/12/15 A	22/01/16		Г Г	Bay 10 to Bay	13 Slip Road 3 Top Slab 1	
S3C-TS-	2000E: Bay 10 to Bay 13 Slip Road 3 Scaffold Removal	14d	23/01/16	05/02/16		l	►	Bay 10 to Bay 13 Slip Roa	d 3 \$caffc
S3C-TS-	2000E: Bay 10 to Bay 13 Slip Road 3 Road Barrier	13d	06/02/16	18/02/16				Bay 10 to	o Bay 13 S
S3C-TS-	2000L(Removal of 1st layer of strut/waling	9d	04/12/15 A	05/02/16				Removal of 1st layer of str	ut/waling
S3C-TS-	2000N Construction of Bay 10 Slip Road 3 Road Barrier	7d	28/01/16	18/02/16				Construc	ction of Ba
S3C-TS-	2030H Bay 14 CWB and Slip Road 3 Road Barrier	14d	19/11/15 A	18/02/16				Bay 14 C	CWB and
S3C-TS-	2030K Backfilling to Road formation level from Bay 10 to Bay 14	30d	12/01/16 A	05/02/16				Backfilling to Road formation	on level fr
S3C-TS-	2090C Bay 15,16 & 17 Slip Road 3 Road Barrier	14d	25/01/16*	10/02/16				Bay 15,16 & 17 Slip) Road 3 F
S3C-TS-	2090D Bay 15,16 & 17 Slip Road 2 Road Barrier	14d	25/01/16*	10/02/16				Bay 15,16 & 17 Slip	Road 2 F
S3C-TS-	2110E ⁺ Removal Scaffold at Bay 18 to 20	17d	13/01/16 A	05/02/16				Removal Scaffold at Bay 1	8 to 20
S3C-TS-	2110F Bay 18, 19 & 20 CWB, Slip Road 3 and Slip Road 2 Road Barrier	9d	06/02/16	14/02/16				Bay 18, 19 & 2	20 CWB,
					1 I				1

	Remaining Work	Summa	CEDD CONTRACT NO. HK/2009/01	Date	Revision
	Actual Work	C urring in		15-Sep-15	Master Programme 6H
			Wan Chai Development Phase II - Central-Wan Chai Bypass at HKCEC (Contract 1)	20/01/16	Progress Updated on 20 Jan
	Summary Bar				
	Critical Remaining Work		WORKS RECORDANIE Day 4 - 2 Marth Descrete a static from 20/21/40		
• •	 Milestone 		WORKS PROGRAMME Rev.4 - 3 Month Programme starting from 20/01/16		

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ge 1B (CH 80 to CH 120) B) - 12,000cu.m	
old Removal	
Slip Road 3 Road Barrier	
ay 10 Slip Road 3 Road Ba	arrier
Slip Road 3 Road Barrier	
rom Bay 10 to Bay 14	
Road Barrier	
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Slip Road 3 and Slip Road	d 2 Road Barrier
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	Activity Name	OD	Start	Finish	2015		2016
						Jan	Qtr 1 Feb
ection 8 of the Work	s - Works in Area 6 (Utilities other than Watermains in Fenwick Pier	Street					
Sewerage Works							
S8-3010	Planter Reinstatement	30d	29/07/15 A	05/02/16			Planter Reinstatement
00.0000	De l Driver de la constance de	04.1		05/00/40	_		
S8-3020	Road Reinstatement	21d	25/09/15 A	05/02/16			Road Reinstatement
ection 9 of the Work	s - Remaindar of the Works						
Box Culvert Constru	iction						
S9-1070	Backfill the Temporary Water Channel from East to West (BG/BI Connection Point at Water Channel)	30d	02/06/15 A	05/02/16			Backfill the Temporary Water Chan
Reprovision of Expo	Drive East						
S9-2060	Construction of Retaining Wall Extension to Top of Box Culvert Bay 7	30d	01/02/16*	01/03/16			c
Waterworks in Area	9 •						
Abandaned Pipes	Removal						
S9-7090	Zone A4-4 Abandoned Pipes P7/P9 Removal Works	30d	14/10/15 A	01/02/16			Zone A4-4 Abandoned Pipes P7/P9 Ren
S9-7100	Zone X1-4a Abandoned Pipes P5 Removal Works/ grouting	14d	27/10/15 A	05/02/16			Zone X1-4a Abandoned Pipes P5 F
р		070					
riation Order No.15	53 - Design and Construct CWB Bypass Tunnel from CH3246 to CH3	0210					
	v3 - Design and Construct CWB Bypass Tunnel from CH3246 to CH3 VB Tunnel, Slip Roads 2 & 3, Works in Area 8	oz <i>1</i> o					
Works at Area 8 - CV		5278					
Works at Area 8 - CV CWB Tunnelling \	VB Tunnel, Slip Roads 2 & 3, Works in Area 8	>278					
Works at Area 8 - CV CWB Tunnelling \	VB Tunnel, Slip Roads 2 & 3, Works in Area 8 Norks (Stage 4: Ch3246 - Ch3278)	5278	18/01/16 A	23/01/16			Pile Head Fabrication
Works at Area 8 - CV CWB Tunnelling V Stage 4 - Tunn	VB Tunnel, Slip Roads 2 & 3, Works in Area 8 Norks (Stage 4: Ch3246 - Ch3278) el Structure Works (Bay 21 to Bay 22 : CH3246 - CH3278)		18/01/16 A 18/01/16 A	23/01/16			Pile Head Fabrication Bay 21 Base Slab
Works at Area 8 - CV CWB Tunnelling V Stage 4 - Tunn S4-TS-0005	VB Tunnel, Slip Roads 2 & 3, Works in Area 8 Norks (Stage 4: Ch3246 - Ch3278) el Structure Works (Bay 21 to Bay 22 : CH3246 - CH3278) Pile Head Fabrication	15d			-		
Works at Area 8 - CV CWB Tunnelling V Stage 4 - Tunn S4-TS-0005 S4-TS-0010	VB Tunnel, Slip Roads 2 & 3, Works in Area 8 Works (Stage 4: Ch3246 - Ch3278) el Structure Works (Bay 21 to Bay 22 : CH3246 - CH3278) Pile Head Fabrication Bay 21 Base Slab	15d 10d	18/01/16 A	28/01/16			Bay 21 Base Slab
Works at Area 8 - CV CWB Tunnelling V Stage 4 - Tunn S4-TS-0005 S4-TS-0010 S4-TS-0020	WB Tunnel, Slip Roads 2 & 3, Works in Area 8 Works (Stage 4: Ch3246 - Ch3278) el Structure Works (Bay 21 to Bay 22 : CH3246 - CH3278) Pile Head Fabrication Bay 21 Base Slab Bay 22 Base Slab	15d 10d 10d	18/01/16 A 21/01/16	28/01/16 04/02/16			Bay 21 Base Slab
Works at Area 8 - CV CWB Tunnelling V Stage 4 - Tunn S4-TS-0005 S4-TS-0010 S4-TS-0020 S4-TS-0030	Wa Tunnel, Slip Roads 2 & 3, Works in Area 8 Works (Stage 4: Ch3246 - Ch3278) el Structure Works (Bay 21 to Bay 22 : CH3246 - CH3278) Pile Head Fabrication Bay 21 Base Slab Bay 22 Base Slab Removal of 3rd and 4th layer of Strut/Waling	15d 10d 10d 28d	18/01/16 A 21/01/16 05/02/16	28/01/16 04/02/16 04/03/16			Bay 21 Base Slab

	Remaining Work		Summa	CEDD CONTRACT NO. HK/2009/01	Date	Revision
	5		C urrinam		15-Sep-15	Master Programme 6H
	Actual Work			Wan Chai Development Phase II - Central-Wan Chai Bypass at HKCEC (Contract 1)	20/01/16	Progress Updated on 20 Jan
	Summary Bar			wan chai Development mase nº centrar wan chai Dypass at moeto (contract n)		
	Critical Remaining Work					
Milestone			WORKS PROGRAMME Rev.4 - 3 Month Programme starting from 20/01/16			
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nnel from East to West (BG	/BI Connectio	on Point at Water Chan
Construction of Retaining W	all Extension	to Top of Box Culvert B
moval Works		
Removal Works/ grouting		
Removal of 3rd and 4th	layer of Strut	t/Waling
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ARP - Oct 20	15 to Jan 2016							11	18 25 01 08 15 22 29 06
	STRUCTION WORKS								
	tement / Shop Drawings								
0230-1380	MS Landscape Deck Structure - Submission	23	20-Oct-15	11-Nov-15	08-Oct-16	31-Oct-16	355		MS Landscape Deck Structure - Submis
0230-1390	MS Landscape Deck Structure - ER Review & Comment	28	12-Nov-15			28-Nov-16	355		
0230-1400	MS Landscape Deck Structure - Resubmission	28	10-Dec-15		28-Nov-16		355		
0230-1611	MS Noise Semi Enclosure - Submission	6	20-Oct-15	25-Oct-15	13-Jan-16	18-Jan-16	85		MS Noise Semi Enclosure - Submission
0230-1612	MS Noise Semi Enclosure - ER Review / Comment	28	26-Oct-15	22-Nov-15	19-Jan-16	15-Feb-16	85		MS Noise Semi Enclosu
0230-1613	MS Noise Semi Enclosure - Resubmission	28	23-Nov-15	20-Dec-15	16-Feb-16	14-Mar-16	85		
0230-1614	MS Noise Semi Enclosure - No Adverse Comment	28	21-Dec-15	17-Jan-16	15-Mar-16	11-Apr-16	85		
0230-1690	MS Approach Ramp - ER Approval	14	20-Oct-15	02-Nov-15	25-Mar-16	07-Apr-16	157		MS Approach Ramp - ER Approval
0230-2330	MS for Connection of EVB and EVA - Submission	10	20-Oct-15	29-Oct-15	10-Nov-15	19-Nov-15	21		MS for Connection of EVB and EVA - Submission
0230-2340	MS for Connection of EVB and EVA - ER Review & Comment	12	30-Oct-15	10-Nov-15	20-Nov-15	01-Dec-15	21		MS for Connection of EVB and EVA - ER
0230-2350	MS for Connection of EVB and EVA - Resubmission	6	11-Nov-15	16-Nov-15	02-Dec-15	07-Dec-15	21		MS for Connection of EVB and E
0230-2360	MS for Connection of EVB and EVA - ER No Adverse Comment	10	17-Nov-15	26-Nov-15	08-Dec-15	17-Dec-15	21		MS for Connection
0240-2370	MS for erection of Beams at Pier 17-21 - Submission	28	20-Oct-15	16-Nov-15	01-Jan-16	28-Jan-16	73		MS for erection of Beams at Pier
0240-2380	MS for erection of Beams at Pier 17-21 - ER Review / Comment	28	17-Nov-15	14-Dec-15	29-Jan-16	25-Feb-16	73		
0240-2390	MS for erection of Beams at Pier 17-21 - Resubmission	28	15-Dec-15	11-Jan-16	26-Feb-16	24-Mar-16	73		
0240-2400	MS for erection of Segment at W/B Bridge by LG - Submission	5	20-Oct-15	24-Oct-15	22-Oct-15	26-Oct-15	2		MS for erection of Segment at W/B Bridge by LG - Submission
0240-2410	MS for erection of Segment at W/B Bridge by LG - ER Review / Comment	5	25-Oct-15	29-Oct-15	27-Oct-15	31-Oct-15	2		MS for erection of Segment at W/B Bridge by LG - ER Rev
0240-2420	MS for erection of Segment at W/B Bridge by LG - Resubmission	5	30-Oct-15	03-Nov-15	01-Nov-15	05-Nov-15	2		MS for erection of Segment at W/B Bridge by LG - F
0240-2430	MS for erection of Segment at W/B Bridge by LG - No Adverse Comment	5	04-Nov-15	08-Nov-15	06-Nov-15	10-Nov-15	2		MS for erection of Segment at W/B Bridge b
0240-2440	MS for trial erection of green roof - Submission	15	20-Oct-15	03-Nov-15	08-Mar-16	22-Mar-16	140		MS for trial erection of green roof - Submission
0240-2450	MS for for trial erection of green roof - ER Review / Comment	15	04-Nov-15	18-Nov-15	23-Mar-16	06-Apr-16	140		MS for for trial erection of gree
0240-2460	MS for for trial erection of green roof - Resubmission	15	19-Nov-15	03-Dec-15	07-Apr-16	21-Apr-16	140		MS for f
0240-2470	MS for for trial erection of green roof - No Adverse Comment	15	04-Dec-15	18-Dec-15	22-Apr-16	06-May-16	140		
2.4 - Contractor	's Design and Build Items								
0240-1180	HGHK Permanent Carpark Design - ER/HGHK Review and Comment	15	20-Oct-15	03-Nov-15	30-Oct-15	13-Nov-15	10		HGHK Permanent Carpark Design - ER/HGHK Re
0240-1190	HGHK Permanent Carpark Design - Resubmission	50	04-Nov-15	23-Dec-15	14-Nov-15	02-Jan-16	10		
0240-1270	Landscaping Design - Submission	28	20-Oct-15	16-Nov-15	12-Oct-17	08-Nov-17	723		Landscaping Design - Submiss
0240-1280	Landscaping Design - ER Review/Resubmission	28	17-Nov-15	14-Dec-15	09-Nov-17	06-Dec-17	723		
0240-1290	Landscaping Design - ER Approval	28	15-Dec-15	11-Jan-16	07-Dec-17	03-Jan-18	723		
0240-1630	Green Wall Minimum 2 years Establishment	488	20-Oct-15	03-Jun-17	18-Nov-16	05-Jul-18	326		
2.5 - Bridge Seg	ment/Beam Off-site Precasting								
0250-3580	Bridge F1C Pier 36 T-span Segment Off-site Casting (13 nos.)	12	20-Oct-15	04-Nov-15	19-Jan-16	02-Feb-16	76		Bridge F1C Pier 36 T-span Segment Off-site Cast
0250-3720	Bridge F3C Pier 41 T-span Segment Off-site Casting (13 nos.)	15	20-Oct-15	06-Nov-15	22-Mar-16	11-Apr-16	126		Bridge F3C Pier 41 T-span Segment Off-site C
0250-3740	Bridge F3C Pier 42 T-span Segment Off-site Casting (11 nos.)	3	20-Oct-15	23-Oct-15	26-Apr-16	28-Apr-16	153		Bridge F3C Pier 42 T-span Segment Off-site Casting (11 nos.)
0250-3760	Bridge F3C Pier 40 End-span Segment Off-site Casting (5 nos.)	0	20-Oct-15	20-Oct-15	25-Apr-16	25-Apr-16		e F3C Pie	r 40 End-span Segment Off-site Casting (5 nos.)
0250-3860	Bridge F1B2 - Abut D12 Segment - 6 nos. (S2)	19	23-Oct-15	14-Nov-15	07-Nov-16	28-Nov-16	312		Bridge F1B2 - Abut D12 Segment -
0250-3880	Bridge F1B2 - Pier F1B2 Segment - 13 nos. (S1)	40	20-Oct-15	05-Dec-15	24-Dec-16	10-Feb-17	356		Bridg
0250-3900	Bridge F1B2 - Pier F2B2 Segment - 11 nos. (S1)	28	14-Dec-15	16-Jan-16	18-Feb-17	22-Mar-17	356		
0250-3920	Bridge F1B2 - Pier F3B2 Segment - 6 nos. (S2)	19	21-Nov-15	14-Dec-15	06-Dec-16	27-Dec-16	312		
0250-3940	Bridge F2B - Pier F3B2 Segment - 5 nos. (S2)	16	21-Dec-15	11-Jan-16	04-Jan-17	21-Jan-17	312		
Bomainin	ng Level of Effort ♦ ♦ Milestone								

Three Months Rolling Programme (20 Oct 2015 to 19 Jan 2016)

Remaining Work
 Critical Remaining Work

			2016	,	
20	27	03	10	17	24
no Dook	Structure	EP Povio	v ^Q Comr	mont	
		MS	S Landsca	ape Dec	k Struc
MS N	oise Sen	ni Enclosure	- Resubr	nission	
nission					
FVA - FF	No Adv	erse Comme	ent		
r erectior	n of Bear	ms at Pier 17	-21 - ER	Review	Comn
				or orooti	on of P
nt					
1					
erse Cor	nment				
Review /	Commer	nt			
n of gree	n roof -	Resubmissio	n		
IVIS for to	r triai ere	ection of gree	in root - T	NO Adve	rse Co
ment					
— Н	GHK Pe	rmanent Car	park Desi	ign - Res	submis
	Design		Decubrai		
s.)					
5.)					
5.)					
5.)					
s.) F1B2 Se					
5.) F1B2 Se		13 nos. (S1)		Bridge	
5.) F1B2 Se		13 nos. (S1)		Bridge	
5.) F1B2 Se F1B2 -	egment -	13 nos. (S1)	6 nos. (S] Bridge	⇒ F1B2
5.) F1B2 Se F1B2 -	egment -	13 nos. (S1)	6 nos. (S] Bridge	⇒ F1B2
5.) F1B2 Se F1B2 -	egment -	13 nos. (S1)	6 nos. (S] Bridge	⇒ F1B2
5.) F1B2 Se F1B2 -	egment -	13 nos. (S1)	6 nos. (S] Bridge	⇒ F1B2
5.) F1B2 Se F1B2 -	egment -	13 nos. (S1)	6 nos. (S] Bridge	⇒ F1B2
5.) F1B2 Se F1B2 -	egment -	13 nos. (S1)	6 nos. (S] Bridge	⇒ F1B2
5.) F1B2 Se F1B2 -	egment -	13 nos. (S1) 2 Segment -	6 nos. (S] Bridge	⇒ F1B2
	pe Deck	pe Deck Structure ew / Comment MS Noise Sen ment hission r erection of Bear nt rerection of Bear nt herese Comment Review / Commer n of green roof - MS for for trial ere heren MS for for trial ere heren MS for for trial ere heren heren MS for for trial ere heren h	pe Deck Structure - ER Review w / Comment MS Noise Semi Enclosure mment hission EVA - ER No Adverse Comment nission r erection of Beams at Pier 17 nt rerection of Beams at Pier 17 Review / Comment n of green roof - Resubmission MS for for trial erection of green mment HGHK Permanent Carport	20 27 03 10 20 27 03 10 pe Deck Structure - ER Review & Comr MS Landsca w / Comment MS Noise Semi Enclosure - Resubm omment inssion EVA - ER No Adverse Comment mission r erection of Beams at Pier 17-21 - ER merse Comment MS for not merse Comment MS for for trial erection of green roof - I mment Imment Imment	20 27 03 10 17 20 27 03 10 17 20 27 03 10 17 20 27 03 10 17 20 27 03 10 17 20 27 03 10 17 20 27 03 10 17 20 27 03 10 17 20 27 03 10 17 20 27 03 10 17 20 27 03 10 17 20 27 03 10 17 20 27 03 10 17 20 MS torids Semitricitation MS for erection MS for erection 0 10 17 17 21 - ER Review / 10 11 17 17 17 10 11 12 13 17 10 10 10 12 13 17 17

vity ID	Activity Name	emainir Juratior	Early Start	Early Finish	Late Start	Late Finish	Total Float	October	
02.6 - Fabricati	ion & Delivery of Noise Enclosure						I	11	18 25 01 08 15 22 29 06 13 20 27 03 10 17
0260-5000	Int. Noise Enclosure Main + Sub Frames Fab / Del	68	20-Oct-15	09-Jan-16	16-Jan-16	11-Apr-16	74		Int. Noise Enclo
0260-5010	Int. Noise Enclosure Noise Panel Fab / Del	10	20-Oct-15	31-Oct-15	30-Mar-16	11-Apr-16	131		Int. Noise Enclosure Noise Panel Fab / Del
03 - PRELIMI	NARY WORKS								
03.3 - Interface	Works								
0261-1000	Constr. of DN75 Storm Drain (Oil street) - ELS and Excavation	0	20-Oct-15	20-Oct-15	23-Oct-15	23-Oct-15			Drain (Oil street) - ELS and Excavation
0261-1010	Constr. of DN75 Storm Drain (Oil street) - Casting of Blinding Layer	0	20-Oct-15	20-Oct-15	23-Oct-15	23-Oct-15		Storm D	Drain (Oil street) - Casting of Blinding Layer
0261-1020	Constr. of DN75 Storm Drain (Oil street) - Pipe Laying + Air test	0	20-Oct-15	20-Oct-15	23-Oct-15	23-Oct-15		of DN75	5 Storm Drain (Oil street) - Pipe Laying + Air test
0261-1030	Constr. of DN75 Storm Drain (Oil street) - Constr. of Manhole 1-56 (Lower portion)	0	20-Oct-15	20-Oct-15	23-Oct-15	23-Oct-15		nstr. of D	DN75 Storm Drain (Oil street) - Constr. of Manhole 1-56 (Lower portion)
0261-1040	Constr. of DN75 Storm Drain (Oil street) - Constr. of Manhole 1-56 (Upper portion)	0	20-Oct-15	20-Oct-15	23-Oct-15	23-Oct-15			nstr. of DN75 Storm Drain (Oil street) - Constr. of Manhole 1-56 (Upper portion)
0261-1050	Constr. of DN75 Storm Drain (Oil street) - Concreting Pipeline intersection	0	20-Oct-15	20-Oct-15	23-Oct-15	23-Oct-15			onstr. of DN75 Storm Drain (Oil street) - Concreting Pipeline intersection
0261-1060	Constr. of DN75 Storm Drain (Oil street) - Trench Backfilling	0	20-Oct-15	20-Oct-15	23-Oct-15	23-Oct-15			Constr. of DN75 Storm Drain (Oil street) - Trench Backfilling
0261-1070	Constr. of DN75 Storm Drain (Oil street) - Removing ELS	2	20-Oct-15	22-Oct-15	23-Oct-15	24-Oct-15	2		Constr. of DN75 Storm Drain (Oil street) - Removing ELS
0261-1080	Constr. of DN75 Storm Drain (Oil street) - Pavement Reinstatement	3	23-Oct-15	26-Oct-15	26-Oct-15	28-Oct-15	2		Constr. of DN75 Storm Drain (Oil street) - Pavement Reinstatement
0261-1090	Complete Drainage work at Oil Street	0		28-Oct-15		28-Oct-15	0		♦ Complete Drainage work at Oil Street
5 - SECTIOI	N 2 & 2A OF THE WORKS								
)5.1 - Cut & Co	over Tunnel Ch 4855-4932 (APS Footprint)								
05.1.3 - APS & 1	Tunnel Structure								
0513-3060	APS Basement (Bay 21-South) - Staircase Landing 8 > Staircase Landing 12	20	20-Oct-15	12-Nov-15	20-Oct-15	12-Nov-15	0		APS Basement (Bay 21-South) - Staircase Landing 8 > Staircase Landing 12
0513-3080	Tunnel Level - South Side Additional Beam at Bay 21	5	07-Nov-15	12-Nov-15	07-Nov-15	12-Nov-15	0		Tunnel Level - South Side Additional Beam at Bay 21
0513-3081	Remedial Works - Concrete defect on partition wall	0	20-Oct-15	20-Oct-15	16-Nov-15	16-Nov-15		medial V	Works - Concrete defect on partition wall
0513-3082	Remedial Works - Panel installation	3	13-Nov-15			16-Nov-15	0		
0513-3083	Remedial Works - Ttrapped gullies	0	20-Oct-15	20-Oct-15	16-Nov-15	16-Nov-15			Remedial Works - Ttrapped gullies
0513-3084	Remedial Works - Water seepage on soffit, diaphragm wall and floor slab	0	20-Oct-15	20-Oct-15		16-Nov-15			Remedial Works - Water seepage on soffit, diaphragm wall and floor slab
0513-3085	Remedial Works - Concrete defect on completed staircase	3	20-Oct-15	23-Oct-15	13-Nov-15	16-Nov-15	20		Remedial Works - Concrete defect on completed staircase
0513-3086	Remedial Works - Cleaning of 150mm & 50mm dia. Cross rd. ducts & Pipes	0	20-Oct-15	20-Oct-15	16-Nov-15	16-Nov-15		Remed	dial Works - Cleaning of 150mm & 50mm dia. Cross rd. ducts & Pipes
0513-3087	Remedial Works - Concrete defect on walls and slabs at pump sump E & Tunnel	0	20-Oct-15	20-Oct-15	16-Nov-15	16-Nov-15			Remedial Works - Concrete defect on walls and slabs at pump sump E & Tunnel
0513-3580	Completion of Outstanding Works at APS & Tunnel	0		16-Nov-15		16-Nov-15	0		
	ib-structure & Tunnel								
0515-1120	EVB Basement - Col/Partition Wall (Reb. Fix) > Zone 1A : GL1-2/A-E, 2-3/B-E, 3-6/C-F,	4	20-Oct-15	24-Oct-15	20-Oct-15	24-Oct-15	0		EVB Basement - Col/Partition Wall (Reb. Fix) > Zone 1A : GL1-2/A-E, 2-3/B-E, 3-6/C-F, 4-6/F-J
0515-1140	4-6/F-J EVB Basement - Col/Partition Wall (Fwk) > Zone 1A to Mezz (-1.40) Soffit		20-Oct-15		20-Oct-15		0		EVB Basement - Col/Partition Wall (Fwk) > Zone 1A to Mezz (-1.40) Soffit
0515-1160	EVB Basement - Col/Partition Wall (Conc) > Zone 1A to Mezz (-1.40) Soffit		29-Oct-15	30-Oct-15		14-Nov-15	13		□ EVB Basement - Col/Partition Wall (Conc) > Zone 1A to Mezz (-1.40) Soffit
0515-1180	EVB Basement - Mezz Slab & Beam (Lv -1.4) - (Falsework/Fwk) > Zone 1A		20-Oct-15	31-Oct-15		14-Nov-15	12		EVB Basement - Mezz Slab & Beam (Lv -1.4) - (Falsework/Fwk) > Zone 1A
0515-1200	EVB Basement - Mezz Slab & Beam (Lv -1.4) - (Reb. Fix) > Zone 1A		02-Nov-15			21-Nov-15	12		EVB Basement - Mezz Slab & Beam (Lv -1.4) - (Reb. Fix) > Zone 1A
0515-1200	EVB Basement - Mezz Slab & Beam (Lv -1.4) - (Conc) > Zone 1A		02-Nov-15			24-Nov-15	12		EVB Basement - Mezz Slab & Beam (Lv -1.4) - (Conc) > Zone 1A
0515-1240	EVB Basement - Col/Partition Wall (Reb. Fix) > Zone 2A: GL1-6/A-D (incl ST-04)		20-Oct-15	29-Oct-15	23-Oct-15		2		EVB Basement - Col/Partition Wall (Reb. Fix) > Zone 2A : GL1-6/A-D (incl ST-04)
0515-1260	EVB Basement - Col/Partition Wall (Feek) > Zone 2A to Roof Soffit		29-Oct-15			11-Nov-15	0		EVB Basement - Col/Partition Wall (Fwk) > Zone 2A to Roof Soffit
0515-1200	EVB Basement - Col/Partition Wall (Conc) > Zone 2A to Roof Soffit		12-Nov-15			13-Nov-15	0		■ EVB Basement - Col/Partition Wall (Conc) > Zone 2A to Roof Soffit
0515-1280	EVB Basement - Mezz Slab & Beam (Lv +2.65) - (Falsework/Fwk) > Zone 2A			20-Nov-15			0		EVB Basement - Mezz Slab & Beam (Lv +2.65) - (Falsework/Fwk) > Zone 2A
0515-1320	EVB Basement - Mezz Slab & Beam (Lv +2.65) - (Reb. Fix) > Zone 2A						0		EVB Basement - Mezz Slab & Beam (Lv +2.65) - (Reb. Fix) > Zone 2A
0010-1020	EVB Basement - Mezz Slab & Beam (Lv +2.65) - (Reb. Fix) > Zone 2A EVB Basement - Mezz Slab & Beam (Lv +2.65) - (Conc) > Zone 2A		21-NOV-15	24-Nov-15		24-N0V-15 25-Nov-15	0		EVB Basement - Mezz Slab & Beam (Lv +2.65) - (Keb. HA) > Zone ZA
0515-1340	LVD Dasement - Wezz Slab & Dean (LV +2.03) - (CUIC) > 2011e ZA						2		EVB Basement - Col/Partition Wall (Reb. Fix) > Zone 3A : GL1-6/E-H
0515-1340	EV/B Recomment Col/Partition Wall /Pach Eix/ > Zone 24 · CL4 C/E LL	A			20-00-15	21-00-15	L 2		LYD Dagement - Oom annon wan (neb. HX) < 2016 JA. GL I-0/L-H
0515-1340 0515-1360 0515-1380	EVB Basement - Col/Partition Wall (Reb. Fix) > Zone 3A : GL1-6/E-H EVB Basement - Col/Partition Wall (Fwk) > Zone 3A to Roof Soffit		20-Oct-15 26-Oct-15			05-Nov-15	2		EVB Basement - Col/Partition Wall (Fwk) > Zone 3A to Roof Soffit

Three	Months	Rolling	Programme	(20 00	ct 2015 to	19 Jan	2016)
				(/

Remaining Work Critical Remaining Work

D	Activity Name	emaini Juratio	r Early Start	Early Finish	Late Start	Late Finish	Total Float	October	2015 November
0515-1400	EVB Basement - Col/Partition Wall (Conc) > Zone 3A to Roof Soffit	2	02-Nov-15	03-Nov-15	04-Nov-15	05-Nov-15	2	11	18 25 01 08 15 22 29 06 ■ EVB Basement - Col/Partition Wall (Conc) > Zone 3
0515-1420	EVB Basement - Col/Partition Wall (Reb. Fix) > Zone 4A : GL1-6/H-K	1	30-Oct-15	30-Oct-15	13-Nov-15		12		EVB Basement - Col/Partition Wall (Reb. Fix) > Zone 4A :
0515-1440	EVB Basement - Col/Partition Wall (Fwk) > Zone 4A to Roof Soffit	7	31-Oct-15		13-Nov-15		11		EVB Basement - Col/Partition Wall (Fwk) > Zo
0515-1460	EVB Basement - Col/Partition Wall (Conc) > Zone 4A to Roof Soffit	2	09-Nov-15		20-Nov-15		11		EVB Basement - Col/Partition Wall (Conc
0515-1480	EVB Basement - Col/Partition Wall (Reb. Fix) > Zone 5A : GL1-6/K-O (incl ST-03)	7	20-Oct-15		03-Nov-15		11		EVB Basement - Col/Partition Wall (Reb. Fix) > Zone 5A : GL
0515-1500	EVB Basement - Col/Partition Wall (Fwk) > Zone 5A to Roof Soffit	9	20-Oct-15		03-Nov-15		11		EVB Basement - Col/Partition Wall (Fwk) > Zone 5A to Ro
0515-1520	EVB Basement - Col/Partition Wall (Conc) > Zone 5A to Roof Soffit	1	20-Oct-15	20-Oct-15	03-Nov-15	03-Nov-15	11		EVB Basement - Col/Partition Wall (Conc) > Zone 5A to Roof Soffit
0515-1540	EVB Basement - Roof Slab (Falsework/Fwk) > Zone 5B : GL1-6/K-O	11	20-Oct-15			03-Nov-15	2		EVB Basement - Roof Slab (Falsework/Fwk) > Zone 5
0515-1560	EVB Basement - Roof Slab (Reb Fix) > Zone 5B : GL1-6/K-O	17	20-Oct-15		02-Dec-15		36		EVB Basement - Roof Slab (Reb Fix) > Zoi
0515-1580	EVB Basement - Roof Slab (Conc) > Zone 5B : GL1-6/K-O	2	09-Nov-15		22-Dec-15		36		EVB Basement - Roof Slab (Conc) > Zo
0515-1600	EVB Basement - Roof Slab (Falsework/Fwk) > Zone 4B : GL1-6/H-K	1	20-Oct-15		03-Nov-15		11		EVB Basement - Roof Slab (Falsework/Fwk) > Zone 4B : GL1-6/H-K
0515-1620	EVB Basement - Roof Slab (Reb Fix) > Zone 4B : GL1-6/H-K	14	20-Oct-15		08-Dec-15		41		EVB Basement - Roof Slab (Reb Fix) > Zone 4B
0515-1640	EVB Basement - Roof Slab (Conc) > Zone 4B : GL1-6/H-K	2	11-Nov-15		24-Dec-15		36		EVB Basement - Roof Slab (Conc) >
0515-1660	EVB Basement - Roof Slab (Falsework/Fwk) > Zone 3B : GL1-6/E-H	21	02-Nov-15		04-Nov-15		2		EVB Basement - R
0515-1680	EVB Basement - Roof Slab (Reb Fix) > Zone 3B : GL1-6/E-H	14	24-Nov-15		10-Dec-15		14		
0515-1700	EVB Basement - Roof Slab (Conc) > Zone 3B : GL1-6/E-H	2	10-Dec-15		28-Dec-15		14		
0515-1720	EVB Basement - Roof Slab (Falsework/Fwk) > Zone 2B : GL1-6/A-E	21	26-Nov-15		26-Nov-15		0		
0515-1740	EVB Basement - Roof Slab (Reb Fix) > Zone 2B : GL1-6/A-E	14	12-Dec-15		12-Dec-15		0		
0515-1760	EVB Basement - Roof Slab (Conc) > Zone 2B : GL1-6/A-E	2	30-Dec-15		30-Dec-15		0		
0515-1780	EVB - Reinstatement of Openings @ TA23-25 - Demo & Erection of Working Platform	5	24-Dec-15		18-Jan-16		19		
0515-1800	(hanoina) EVB - Reinstatement of Openings @ TA23-25 - Formworks	2	31-Dec-15		23-Jan-16		19		
0515-1820	EVB - Reinstatement of Openings @ TA23-25 - Rebar Fixing + Concreting	6	04-Jan-16		26-Jan-16		19		
0515-1840	EVB - Reinstatement of Openings @ TA23-25 - Curing of Concrete	3	11-Jan-16		02-Feb-16		19		
0515-1860	EVB - Reinstatement of Openings @ TA23-25 - Coming of Contrete	3	14-Jan-16		05-Feb-16	11-Feb-16	19		
0515-1980	Complete approx 50% of EVB Structure	0	14-5411-10	22-Oct-15	00-1 00-10	08-Nov-19	13	50% of F	VB Structure
1051-3221	Saw Cutting Preparation for D-Wall - South (Scaffolding/Platform/Coring) - (Zone 4A-5A)	12	24-Oct-15		26-Nov-15		28		Saw Cutting Preparation for D-Wall - South (S
1051-3221		12		20-Nov-15			59		Saw Cutting Preparation for D-wall > Source (C
1051-3223	Saw Cutting of D-Wall > South - (Zone 4A-5A)	12		20-NOV-15			66		CJ Preparation for S
	CJ Preparation for South Wall along D-Wall - (Zone 4A-5A)	7					59		
1051-3224	Construction of South Wall along D-Wall + Stitiching to Roof Slab - (Zone 4A-5A)	1	21100110						
1051-3225	Saw Cutting Preparation for D-Wall - South (Scaffolding/Platform/Coring) - (Zone 3A)	12	07-Nov-15				28		Saw Cutting Preparation 1
1051-3226	Saw Cutting of D-Wall > South - (Zone 3A)	13	21-Nov-15				28		Saw
1051-3227	CJ Preparation for South Wall along D-Wall - (Zone 3A)	10	27-Nov-15		13-Jan-16		38		
1051-3228	Construction of South Wall along D-Wall + Stitiching to Roof Slab - (Zone 3A)	7		14-Dec-15			30		
1051-3230	Excavation + Saw Cutting Preparation at North Side D-Wall - (TA24-23)	12		26-Dec-15			3		
1051-3240	Saw Cutting of D-Wall > North - (Zone 2A)	11	21-Dec-15		24-Dec-15		3		
1051-3250	CJ Preparation for North Wall along D-Wall - (Zone 2A)	10	28-Dec-15				9		
1051-3260	Construction of North Wall along D-Wall + Stitiching to Roof Slab - (Zone 2A)	11	05-Jan-16		08-Jan-16		3		
1051-3330	Excavation at North Side D-Wall - (TA27-26)	4	18-Dec-15		14-Jan-16		21		
1051-3340	Saw Cutting Preparation for D-Wall - North (Scaffolding/Platform/Coring) - (Zone 5A)	12	09-Dec-15			18-Jan-16	21		
1051-3350	Saw Cutting of D-Wall > North - (Zone 5A)	12	23-Dec-15		19-Jan-16		21		
1051-3360	CJ Preparation for North Wall along D-Wall - (Zone 5A)	10	30-Dec-15		02-Feb-16		28		
1051-3370	Construction of North Wall along D-Wall + Stitiching to Roof Slab - (Zone 5A)	6	08-Jan-16		02-Feb-16		21		
1051-3430	Complete Saw Cutting of D-Wall after Removal of TA23	3	29-Dec-15	31-Dec-15	11-Jan-16	13-Jan-16	10		

Remaining Level of Effort	•	 Milestor
Actual Level of Effort		
Actual Work		
Remaining Work		
Critical Remaining Work		

Contract HY/2009/19 Three Months Rolling Programme (20 Oct 2015 to 19 Jan 2016)

December					2016 Januar	51	
13	20		27	03	10	17	24
to Roof So	ffit 						
GL1-6/H-K							
e 4A to Roc							
> Zone 4A t			ffit				
1-6/K-O (inc	I ST-03	3)					
of Soffit							
3 : GL1-6/K-	-0						
5B : GL1-6	/K-O						
e 5B : GL1-	6/K-O						
GL1-6/H-K							
one 4B : Gl	_1-6/H	-K					
of Slab (Fal	seworl	k/Fw	/k) > Zc	one 3B : GL	1-6/E-H		
EVB Basem	nent - F	Roof	Slab (I	Reb Fix) > Z	one 3B :	GL1-6/E-	Н
EVB Bas	ement	- R	oof Sla	ib (Conc) >	Zone 3B	: GL1-6/E	E-H
	EVB	Bas	ement	- Roof Slab	(Falsewo	ork/Fwk) >	> Zone
			E	VB Baseme	ent - Roof	Slab (Re	b Fix) >
				EVB Base	ment - R	oof Slab	(Conc)
				EVB - Rein	statemen	t of Open	ings @
				EVB - F	Reinstate	ment of C	pening
					EVB -		
						EVB - Rei	
						EVB ·	
ffolding/Pla	tform/C	Corir	na) - (Ze	one 4A-5A)			
ith - (Zone 4				,			
th Wall alo			- (Zone	e 4A-5A)			
outh Wall a					oof Slab	(Zone 4	A-5A)
D-Wall - So							
utting of D-V							
Preparatio				-	II - (Zone	34)	
				Nall along I			to Poo
				vation + Sav			
				Saw	Cutting		North
					CIPror	oration f	or North
					CJFIEL		JI NOIU
<u>.</u>	<u></u>			at North Sid			
	E	=xca	ivation	g Preparatio	de D-wai	- (IA27-	20)
	8	Saw	Cutting				
					Saw Cutt		
					CJ		
						Constru	
				Complete	Saw Cut	ing of D-	Wall af
	Р	age	3 of	13			

ID	Activity Name	emainir Juratio	Early Start	Early Finish	Late Start	Late Finish	Total Float	October			201 November	5	
								11	18 25	01 08		22	29 06
51-3440	Complete Wall & Stair along TA23		02-Jan-16	08-Jan-16			10						
-3441	Excavation at North Side D-Wall - (TA24-25)	4	23-Dec-15	28-Dec-15	14-Jan-16	18-Jan-16	17						
-3510	Excavation at North Side D-Wall - (TA25-26)	4	31-Dec-15	05-Jan-16	14-Jan-16	18-Jan-16	11						
1-3520	Saw Cutting Preparation for D-Wall - North (Scaffolding/Platform/Coring) - (Zone 3A-4A)	12	24-Dec-15	08-Jan-16	05-Jan-16	18-Jan-16	8						
-3530	Saw Cutting of D-Wall > North - (Zone 3A-4A)	12	09-Jan-16	22-Jan-16	19-Jan-16	01-Feb-16	8						
1-3540	CJ Preparation for North Wall along D-Wall - (Zone 3A-4A)	10	15-Jan-16	26-Jan-16	02-Feb-16	16-Feb-16	15						
51-3550	Construction of North Wall along D-Wall + Stitiching to Roof Slab - (Zone3A-4A)	6	23-Jan-16	29-Jan-16	02-Feb-16	11-Feb-16	8						
51-3560	EVA - Coring along Bulkhead Wall	14	28-Nov-15	14-Dec-15	19-Dec-15	06-Jan-16	18						
-3570	EVA - Vertical & Horizontal Saw Cutting along Bulk Head Wall	14	15-Dec-15	31-Dec-15	07-Jan-16	22-Jan-16	18						
-3580	EVA - Pre-Treatment + Pressure Grouting	7	02-Jan-16	09-Jan-16	23-Jan-16	30-Jan-16	18						
1-3590	EVA - Removal of Bulkhead Wall	7	02-Jan-16	09-Jan-16	23-Jan-16	30-Jan-16	18						
-3600	EVA - Complete demolition and Prepare CJ	7	11-Jan-16	18-Jan-16	01-Feb-16	11-Feb-16	18						
1-3615	Completion 100% of EVB Structure (excl reinstatement)	0		31-Dec-15		31-Dec-15	0						
1-3620	Handover EVB (Zone 2A)	0		20-Jan-16		20-Jan-16	0						
0-1000	Pre-cast Watertank - Preparation of Pre-casting Area	11	20-Oct-15	02-Nov-15	20-Oct-15	02-Nov-15	0	•••••		Pre-cast Wa	tertank - Prepa	ration of Pr	re-casting Area
0-1010	Pre-cast Watertank - Rebar Fixing of Base Slab + Lower Part Wall	6	03-Nov-15	09-Nov-15	03-Nov-15	09-Nov-15	0			Pr	e-cast Waterta	nk - Rebar	Fixing of Base S
)-1020	Pre-cast Watertank - Removal of Formworks + CJ Preparation	2	10-Nov-15	11-Nov-15	10-Nov-15	11-Nov-15	0				Pre-cast Wate	rtank - Ren	noval of Formwo
0-1030	Pre-cast Watertank - Erect Formworks + Concreting	3	12-Nov-15	14-Nov-15	12-Nov-15	14-Nov-15	0				Pre-cast V	Vatertank -	Erect Formwork
0-1040	Pre-cast Watertank - Install Scaffolding + Platform	3	16-Nov-15	18-Nov-15	16-Nov-15	18-Nov-15	0				Pre-	cast Water	rtank - Install Sca
-1050	Pre-cast Watertank - Rebar Fixing of Upper Part Wall	6	19-Nov-15	25-Nov-15	19-Nov-15	25-Nov-15	0					Pre-c	cast Watertank -
1060	Pre-cast Watertank - Erect Formworks + Concreting	4	26-Nov-15	30-Nov-15	26-Nov-15	30-Nov-15	0						Pre-cast Wate
-1070	Pre-cast Watertank - Removal of formworks + CJ Preparation	2	01-Dec-15	02-Dec-15	01-Dec-15	02-Dec-15	0						Pre-cast W
-1080	Pre-cast Watertank - Install Scaffolding + Platform	3	03-Dec-15	05-Dec-15	03-Dec-15	05-Dec-15	0						Pre-ca
0-1090	Pre-cast Watertank - Rebar Fixing of Watertank Soffit	6	07-Dec-15	12-Dec-15	07-Dec-15	12-Dec-15	0						
0-1100	Pre-cast Watertank - Install Hoisting Bar Support	3	14-Dec-15	16-Dec-15	14-Dec-15	16-Dec-15	0						
-1110	Pre-cast Watertank - Erect Formworks + Concreting	2	17-Dec-15	18-Dec-15	17-Dec-15	18-Dec-15	0						
0-1120	Pre-cast Watertank - Removal of Scaffolding & Formworks + Cleaning of Tank	1	19-Dec-15	19-Dec-15	19-Dec-15	19-Dec-15	0						
70-1130	Pre-cast Watertank - waterproofing and Water Test		21-Dec-15	31-Dec-15			0						
0-1140	Pre-cast Watertank - Transfer and Fixing of Pre-cast Watertank at EVB			04-Jan-16			0						
0-1150	Stair(03)-1 - Install Scaffolding and Platform + Formworks	6	05-Jan-16		05-Jan-16		0						
70-1160	Stair(03)-1 - Rebar Fixing + Concreting	6	12-Jan-16		12-Jan-16		0						
70-1170	Stair(03)-2 - Install Scaffolding and Platform + Formworks	5	19-Jan-16		19-Jan-16		0						
70-1180	Stair(03)-2 - Rebar Fixing + Concreting	2	25-Jan-16		25-Jan-16		0						
		2	23-3411-10	20-3411-10	23-3411-10	20-3411-10	0						
	ver Tunnel Ch 4932-5149 Miscellaneous Works												
525-1340	Complete Remaining work at C/C Tunnel	0	1	16 Nov 15	1	16 Nov 15	0				A Compl	oto Domain	aing work at C/C
		0		16-Nov-15		16-Nov-15	0				◆ Compi	ele Remair	ning work at C/C
	I 3 OF THE WORKS												
	nd - Pier 29-34												
0-1460	Construct W/B Bridge Pier 29 > Bearring		20-Oct-15		20-Oct-15	20-Oct-15		er 29 > B					
0-1560	Construct W/B Bridge Pier 30 > Bearring	0	20-Oct-15	20-Oct-15		20-Oct-15		30 > Beaı	-				
0-1660	Construct W/B Bridge Pier 31 > Bearring	0	20-Oct-15	20-Oct-15	24-Oct-15	24-Oct-15		1 > Bearr	-				
0-1860	Construct W/B Bridge Pier 33 > Bearring	0	20-Oct-15	20-Oct-15	20-Oct-15	20-Oct-15		r 33 > Be	arring				
0-1880	W/B Bridge Pier 34 - Tie Beam > Breaking + Excav + Blinding	8	10-Nov-15	18-Nov-15	17-Nov-15	25-Nov-15	6				W/F	Bridae Pie	er 34 - Tie Beam

Critical Remaining Work

Three Months Rolling Programme (20 Oct 207	15 to 19 Jan 2016)
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				2016
December 13	20	27	03	January 10 17 24
10	20	2,		complete Wall & Stair a
		— —	evotion at No	rth Side D-Wall - (TA24
			Exca	vation at North Side D-
			S	aw Cutting Preparation
				Sou
				Saw
	Coring a		Ikhead Wall	
			EVA - Vertica	al & Horizontal Saw Cu
				EVA - Pre-Treatment +
			<u></u>	
				EVA - Removal of Bull
				EVA - Cor
		•	Completion	100% of EVB Structure
		•	····	
				Hando
lab + Lower	Part Wal	1		
rks + CJ Pre	paration			
s + Concreti	ng			
folding + Pl	atform			
Rebar Fixin	g of Uppe	er Part W	all	
rtank - Erec	Formwo	rks + Co	ncreting	
atertank - Ri	emoval of	fformwo	orks + CJ Prep	aration
st Watertank	: - Install S	Scaffoldi	ng + Platform	
Pre-cast	Watertan	k - Reba	ar Fixing of Wa	atertank Soffit
Pre	-cast Wa	tertank -	Install Hoistir	ng Bar Support
				nworks + Concreting
	Pre-cast	Waterta	ank - Remova	l of Scaffolding & Form
			Pre-cast Wa	tertank - waterproofing
				-
			Pre-ca	st Watertank - Transfer
				Stair(03)-1 - Install \$
				Stair(03)-
				Sta
Tunnel				
> Breaking	+ Execut	L Dlindi-		
- breaking	- Excav +		'Y	
	Page	e 4 of 1	3	

Activity ID	Activity Name	Duratio	r Early Start	Early Finish	Late Start	Late Finish	Float	October			No	ovember	15	
0610-1900	Construct W/B Bridge Pier 34 - Tie Beam > CJ + post drill rebar & Construction	14	19-Nov-15	04-Dec-15	24-Dec-15	11-Jan-16	30	11	18 25	01	08	15	22	29 06
0610-1920	Construct W/B Bridge Pier 34 Drilling of Starter Bars for Pier/Column	14	10-Nov-15		17-Nov-15		6						Co	nstruct W/B Brid
0610-1940	Construct W/B Bridge Pier 34 Construct Crosshead	15	26-Nov-15		03-Dec-15		6							
0610-1960	Construct W/B Bridge Pier 34 - Install Bearing	6	14-Dec-15		21-Dec-15		6							
06.3 - Admin Bu		-					-							
0630-1120	Grd. Beam - (GL > L-N) - Install Capping Plate	0	20-Oct-15	20-Oct-15	12-Nov-15	12-Nov-15		- Install	Capping Plate					
0630-1140	Grd. Beam - (GL > L-N) - Rebar Fixing for Ground Beam	12	20-Oct-15	03-Nov-15	12-Nov-15	25-Nov-15	19			G	ird. Beam - ((GL > L-N) -	Rebar Fix	king for Ground E
0630-1160	Grd. Beam - (GL > L-N) - Erect Formworks for Ground Beam	15	20-Oct-15	06-Nov-15	12-Nov-15	28-Nov-15	19							Formworks for (
0630-1180	Grd. Beam - (GL > L-N) - Cast Concrete for Ground Beam	1	07-Nov-15	07-Nov-15	30-Nov-15	30-Nov-15	19				Grd. Be	am - (GL >	L-N) - Cas	st Concrete for G
0630-1200	Grd. Beam - (GL > L-N) - Formworks Removal	1	09-Nov-15	09-Nov-15	01-Dec-15	01-Dec-15	19				Grd.	Beam - (GL	> L-N) - F	ormworks Remo
0630-1880	Grd. Beam - (GL > P-R) - Removal of Existing Sheet Piles	4	12-Jan-16	15-Jan-16	12-Jan-16	15-Jan-16	0							
0630-1900	Grd. Beam - (GL > P-R) - Excavate to formation level + Blinding Layer Casting	5	16-Jan-16	21-Jan-16	16-Jan-16	21-Jan-16	0							
0630-1920	Grd. Beam - (GL > P-R) - Install Capping Plate	6	21-Jan-16	27-Jan-16	21-Jan-16	27-Jan-16	0							
0630-1940	Grd. Beam - (GL > P-R) - Rebar Fixing for Beam	7	25-Jan-16	01-Feb-16	25-Jan-16	01-Feb-16	0							
0630-2021	Grd. Beam - (GL > C-F)-Portion VB < By Others > Excav. to formation level + Blinding Layer	2	19-Nov-15	20-Nov-15	24-Nov-15	25-Nov-15	4						Grd. Beam	n - (GL > C-F)-Po
0630-2040	Castino Grd. Beam - (GL > C-F)-Portion VB < By Others > Install Capping Plate	3	21-Nov-15	24-Nov-15	26-Nov-15	28-Nov-15	4						Grd.	Beam - (GL > C
0630-2080	Grd. Beam - (GL > C-F)-Portion VB < By Others > Rebar Fixing for Ground Beam	9	23-Nov-15	02-Dec-15	27-Nov-15	07-Dec-15	4							Grd. Bear
0630-2100	Grd. Beam - (GL > C-F)-Portion VB < By Others > Erect Formworks for Ground Beam	4	02-Dec-15	05-Dec-15	07-Dec-15	10-Dec-15	4							Grd.
0630-2120	Grd. Beam - (GL > C-F)-Portion VB < By Others > Cast Concrete for Ground Beam	1	07-Dec-15	07-Dec-15	11-Dec-15	11-Dec-15	4							∎ Gi
0630-2140	Grd. Beam - (GL > C-F)-Portion VB < By Others > Formworks Removal	1	08-Dec-15	08-Dec-15	12-Dec-15	12-Dec-15	4							. (
0630-2141	Grd. Beam -Portion VD - Excavate to formation level + Blinding Layer Casting	3	09-Dec-15	11-Dec-15	14-Dec-15	16-Dec-15	4							
0630-2142	Grd. Beam -Portion VD - Install Capping Plate	4	12-Dec-15	16-Dec-15	17-Dec-15	21-Dec-15	4							
0630-2143	Grd. Beam -Portion VD - Rebar Fixing for Ground Beam	11	15-Dec-15	28-Dec-15	19-Dec-15	02-Jan-16	4							
0630-2144	Grd. Beam -Portion VD - Erect Formworks for Ground Beam	5	28-Dec-15	02-Jan-16	02-Jan-16	07-Jan-16	4							
0630-2145	Grd. Beam -Portion VD - Cast Concrete for Ground Beam	1	04-Jan-16	04-Jan-16	08-Jan-16	08-Jan-16	4							
0630-2146	Grd. Beam -Portion VD - Formworks Removal	2	05-Jan-16	06-Jan-16	09-Jan-16	11-Jan-16	4							
0630-2440	Complete ADB Ground Beam (Portion VB & VD)	0		11-Jan-16		11-Jan-16	0							
0630-2441	ADB Drilling & Starter Bar Fixing - Cleaning + Setting out & Marking (to be confirmed)	5	07-Jan-16	12-Jan-16	12-Jan-16	16-Jan-16	4							
0630-2442	ADB Drilling & Starter Bar Fixing - Structural Walls @ 4 Gang (to be confirmed)	15	13-Jan-16	29-Jan-16	18-Jan-16	03-Feb-16	4							
0630-2443	ADB Drilling & Starter Bar Fixing - Drilling of Non structural Walls @ 4 Gang (to be	15	13-Jan-16	29-Jan-16	18-Jan-16	03-Feb-16	4							
0700-1000	confirmed) Grd. Beam - (GL > B-C) - Removal of Steel Moulds	0	20-Oct-15	20-Oct-15	20-Oct-15	20-Oct-15		l. Beam -	(GL > B-C) - Re	emoval of	Steel Moule	ds		
0700-1010	Grd. Beam - (GL > B-C) - Working Platform Removal & Wailing Removal	0	20-Oct-15	20-Oct-15	20-Oct-15	20-Oct-15		Grd. B	eam - (GL > B-(- / -	5			
0700-1020	Grd. Beam - (GL > B-C) - Backfill	0	20-Oct-15	20-Oct-15	20-Oct-15	20-Oct-15			Grd. Beam - (G	GL > B-C) -	- Backfill			
0700-1030	Grd. Beam - (GL > B-C) - Removal of Existing Sheet Piles	1	20-Oct-15	20-Oct-15	20-Oct-15	20-Oct-15	0		Grd. Beam -	- (GL > B-C	C) - Remova	al of Existing	Sheet Pi	les
0700-1040	Grd. Beam - (GL > B-C) - Blinding Layer Casting	1	22-Oct-15	22-Oct-15	22-Oct-15	22-Oct-15	0		Grd. Bea	ım - (GL >	B-C) - Blind	ling Layer C	asting	
0700-1050	Grd. Beam - (GL > B-C) - H-Pile trimming & Cutting of Casing	2	23-Oct-15	24-Oct-15	23-Oct-15	24-Oct-15	0		📕 Grd. B	Beam - (GL	- > B-C) - H-	-Pile trimmir	ng & Cuttir	ng of Casing
0700-1060	Grd. Beam - (GL > B-C) - Capping Plate Welding / U Bars Welding (9nos)	3	26-Oct-15	28-Oct-15	26-Oct-15	28-Oct-15	0			Grd. Beam	1 - (GL > B-C	C) - Capping	Plate We	elding / U Bars W
0700-1070	Grd. Beam - (GL > B-C) - Reinforcement Fixing	3	29-Oct-15	31-Oct-15	29-Oct-15	31-Oct-15	0			Grd. B	Beam - (GL >	> B-C) - Rei	nforceme	nt Fixing
0700-1080	Grd. Beam - (GL > B-C) - Formworks Erection	2	02-Nov-15	03-Nov-15	02-Nov-15	03-Nov-15	0			🗖 G	ird. Beam - ((GL > B-C) -	Formwor	ks Erection
0700-1090	Grd. Beam - (GL > B-C) - Concreting	1	04-Nov-15	04-Nov-15	04-Nov-15	04-Nov-15	0				Grd. Beam -	,		•
0700-1100	Grd. Beam - (GL > B-C) - Formwork Removal	1	05-Nov-15	05-Nov-15	05-Nov-15	05-Nov-15	0			I				vork Removal
0700-1110	Grd. Beam - (GL > F-G) - Backfill	0	20-Oct-15	20-Oct-15	20-Oct-15	20-Oct-15		Beam - (G	L > F-G) - Back	cfill				
0700-1120	Grd. Beam - (GL > F-G) - Excavation & Old Cap Cutting + Sheet Piling	0	20-Oct-15	20-Oct-15	20-Oct-15	20-Oct-15		Grd. Be	am - (GL > F-G)) - Excavat	tion & Old C	Cap Cutting	+ Sheet P	iling
, ,														
Remain	ing Level of Effort 🔶 🔶 Milestone													
Actual L	evel of Effort			~			0014							

Contract HY/2009/19
Three Months Rolling Programme (20 Oct 2015 to 19 Jan 2016)

Actual Work

Critical Remaining Work

Remaining Work

				2016		
December	- 20	07		January	47	24
13	20 10 Dior 24	27 Tio P	03 eam > CJ + p	10	har 8 Ca	
L.	•		ars for Pier/C			
			r 34 Construc		ad	
	Construc	t W/B E	Bridge Pier 34	4 - Install E	Bearing	
ound Beam						
und Beam						
al						
					Grd. Bear	n - ((
						Grd. I
on VB < By	Others > F	Evcav t	o formation le	avel + Blin	dinglave	
			stall Capping			
			Others > Rel		for Groun	d Be
			< By Others >			
			/B < By Other			
			VB < By Other			
			VD - Install C			ing i
			d. Beam -Por			ing f
			Grd. Bea	im -Portioi	ר VD - Ere	ect F
			Grd. E	Beam -Por	tion VD -	Cas
			📕 Gr	d. Beam -F		
					lete ADB	
					B Drilling 8	× Sta
lding (9nos)					
	,					

Page 5 of 13

<i>i</i> ity ID	Activity Name	emaini Juratio	ir Early Start	Early Finish	Late Start	Late Finish	Total Float	October	2015 November
0700 1100	Ord Decre (Olive E O). The Decre Oracle of the			00.0.145	00.0.145	00.0.1.45		11	18 25 01 08 15 22 29 06
0700-1130	Grd. Beam - (GL > F-G) - Tie Beam Construction	0	20-Oct-15	20-Oct-15			1		Grd. Beam - (GL > F-G) - Tie Beam Construction Grd. Beam - (GL > F-G) - Backfill
0700-1140	Grd. Beam - (GL > F-G) - Backfill	3	20-Oct-15		22-Oct-15		1		
0700-1150	Grd. Beam - (GL > F-G) - (PartA) - Blinding Layer Casting	1	24-Oct-15			26-Oct-15	1		Grd. Beam - (GL > F-G) - (Part A) - Blinding Layer Casting
0700-1160	Grd. Beam - (GL > F-G) - (PartA) - H-Pile Trimming / Cutting Casing	1	26-Oct-15		27-Oct-15		1		Grd. Beam - (GL > F-G) - (Part A) - H-Pile Trimming / Cutting Casi
0700-1170	Grd. Beam - (GL > F-G) - (Part A) - Capping Plate Welding / U Bars Welding	1	27-Oct-15			28-Oct-15	1		Grd. Beam - (GL > F-G) - (Part A) - Capping Plate Welding / U B
0700-1180	Grd. Beam - (GL > F-G) - (Part A) - Reinforcement Fixing	3	28-Oct-15		29-Oct-15		1		Grd. Beam - (GL > F-G) - (Part A) - Reinforcement Fixing
0700-1190	Grd. Beam - (GL > F-G) - (Part A) - Formworks Erection	2	31-Oct-15		02-Nov-15		1		Grd. Beam - (GL > F-G) - (Part A) - Formworks Erection
0700-1200	Grd. Beam - (GL > F-G) - (Part A) - Concreting	1	03-Nov-15				1		Grd. Beam - (GL > F-G) - (Part A) - Concreting
0700-1210	Grd. Beam - (GL > F-G) - (PartA) - Formwork Removal	1	04-Nov-15		05-Nov-15		1		Grd. Beam - (GL > F-G) - (Part A) - Formwork Remov
0700-1220	Grd. Beam - (GL > F-G) - (Part B) - Blinding Layer Casting	0	20-Oct-15	20-Oct-15		29-Oct-15			GL > F-G) - (Part B) - Blinding Layer Casting
0700-1230	Grd. Beam - (GL > F-G) - (Part B) - H-Pile Trimming / Cutting Casing	0	20-Oct-15	20-Oct-15	29-Oct-15	29-Oct-15			n - (GL > F-G) - (Part B) - H-Pile Trimming / Cutting Casing
0700-1240	Grd. Beam - (GL > F-G) - (Part B) - Capping Plate Welding / U Bars Welding	0	20-Oct-15	20-Oct-15	29-Oct-15	29-Oct-15		Grd. B	eam - (GL > F-G) - (Part B) - Capping Plate Welding / U Bars Welding
0700-1250	Grd. Beam - (GL > F-G) - (Part B) - Reinforcement Fixing	0	20-Oct-15	20-Oct-15	29-Oct-15	29-Oct-15			Grd. Beam - (GL > F-G) - (Part B) - Reinforcement Fixing
0700-1260	Grd. Beam - (GL > F-G) - (Part B) - Formworks Erection	2	20-Oct-15	22-Oct-15	29-Oct-15	30-Oct-15	7		Grd. Beam - (GL > F-G) - (Part B) - Formworks Erection
0700-1270	Grd. Beam - (GL > F-G) - (Part B) - Concreting	1	23-Oct-15	23-Oct-15	31-Oct-15	31-Oct-15	7		Grd. Beam - (GL > F-G) - (Part B) - Concreting
0700-1280	Grd. Beam - (GL > F-G) - (Part B) - Formwork Removal	1	24-Oct-15	24-Oct-15	02-Nov-15	02-Nov-15	7		Grd. Beam - (GL > F-G) - (Part B) - Formwork Removal
0700-1290	Grd. Beam - (GL > K-L) - Backfill	0	20-Oct-15	20-Oct-15	27-Oct-15	27-Oct-15		am - (GL	> K-L) - Backfill
0700-1300	Grd. Beam - (GL > K-L) - Removal of existing Sheet Pile	0	20-Oct-15	20-Oct-15	27-Oct-15	27-Oct-15		8eam - (G	- > K-L) - Removal of existing Sheet Pile
0700-1310	Grd. Beam - (GL > K-L) - Blinding Layer Casting	0	20-Oct-15	20-Oct-15	27-Oct-15	27-Oct-15		Beam - (GL > K-L) - Blinding Layer Casting
0700-1320	Grd. Beam - (GL > K-L) - H-Pile Trimming / Cutting Casing	0	20-Oct-15	20-Oct-15	27-Oct-15	27-Oct-15		Grd. Bear	n - (GL > K-L) - H-Pile Trimming / Cutting Casing
0700-1330	Grd. Beam - (GL > K-L) - Capping Plate Welding / U Bars Welding	0	20-Oct-15	20-Oct-15	27-Oct-15	27-Oct-15		Grd. I	Beam - (GL > K-L) - Capping Plate Welding / U Bars Welding
0700-1340	Grd. Beam - (GL > K-L) - Reinforcement Fixing	1	20-Oct-15	20-Oct-15	27-Oct-15	27-Oct-15	5		Grd. Beam - (GL > K-L) - Reinforcement Fixing
0700-1350	Grd. Beam - (GL > K-L) - Formworks Erection	3	22-Oct-15	24-Oct-15	28-Oct-15	30-Oct-15	5		Grd. Beam - (GL > K-L) - Formworks Erection
0700-1360	Grd. Beam - (GL > K-L) - Concreting	1	26-Oct-15	26-Oct-15	31-Oct-15	31-Oct-15	5		Grd. Beam - (GL > K-L) - Concreting
0700-1370	Grd. Beam - (GL > K-L) - Formwork Removal	1	27-Oct-15	27-Oct-15	02-Nov-15	02-Nov-15	5		Grd. Beam - (GL > K-L) - Formwork Removal
0700-1380	Storm Water Drain at Portion VB	5	21-Nov-15	26-Nov-15	02-Dec-15	07-Dec-15	9		Storm Water Drain a
0700-1390	Install Irrigation Watermain within Portion V	5	21-Nov-15	26-Nov-15			14		Install Irrigation Wate
0700-1400	Construction of pile cap for PC21	0	20-Oct-15		24-Dec-16				Construction of pile cap for PC21
0700-1410	Construction of pile cap for PC22	0		20-Oct-15				nstructior	of pile cap for PC22
0700-1420	Construction of Column for Landscape Dect at PC21 & 22 up to Gnd Level	18		30-Nov-15			339		Construction of
0700-1420	Install underground drainage at Portion VB	7		28-Nov-15			7		
0700-1430	Construct Road Pavement Between P31-32 within Porion VB incl sub-base	21	04-Dec-15				3		
0700-1440	Remove Temp Container/Storage within Admin Area	9	30-Nov-15		22-Dec-15		19		R
		9			04-Jan-16		3		
0700-1460	Erect Temporary/Removable Hoarding along portion VB		30-Dec-15 05-Nov-15	09-Jan-16 03-Dec-15					Modify Terr
A1540	Modify Temporary Support of Pier obstructing construction of ADB along Portion VB	25	05-1107-15	03-Dec-15	11-Oct-19	08-Nov-19	1179		
08 - SECTION									
	y Wall 'F' Substructure	10	00.0-145	40 No. 45	00.1 - 10	00 1 - 10	100		
0810-1650	Retaining Wall F > Temp Excav Support/Open cut Excav works	18	20-Oct-15		08-Jun-16		190		Retaining Wall F > Temp Excav Support/Op
0810-1660	Retaining Wall F > Excavation Works for Pile caps	21	28-Oct-15		16-Jun-16		190		Retaining Wall F > Excavation
0810-1670	Construction of pile cap for Retaining Wall F @ PC8	21	30-Oct-15		18-Jun-16		190		Construction of pile cap f
0810-1680	Construction of pile cap for Retaining Wall F @ PC9	0	09-Nov-15		28-Jun-16				of pile cap for Retaining Wall F @ PC9
0810-1700	Construction of pile cap for Retaining Wall F @ PC10	0	09-Nov-15	09-Nov-15	28-Jun-16	28-Jun-16			of pile cap for Retaining Wall F @ PC10
0810-1720	Construction of pile cap for Retaining Wall F @ PC11	0	09-Nov-15	09-Nov-15	28-Jun-16	28-Jun-16	1	nstruction	of pile cap for Retaining Wall F @ PC11

Remaining Level of Effort Milestone		
Actual Level of Effort	Contract UV/2000/40	
Actual Work	Contract HY/2009/19	
Remaining Work	Three Months Rolling Programme (20 Oct 2015 to 19 Jan 2016)	
Critical Remaining Work		

					2016		
6	December 13	20	27	03	January 10	17	24
0	10	20	21	00	10	17	24
Casii	ng						
	-						
UВ	ars Welding						
9							
tion							
mov	al						
in a	t Portion VB						
Nate	ermain withi	n Portior	n V				
on of	Column for	Landsca	ape Dect	at PC21 &	22 up to G	nd Leve	 I
	nd drainage						
			Co	onstruct Ro	ad Paveme	nt Betw	een P
Re	emove Temp	Contair	ner/Stora	gewithinA	Admin Area		
				-		nnoran	Dom
Terr	porary Sup	port of Pi	ier obstru	ucting cons	struction of A	ADB alo	ng Po
rt/Op	oen cut Exca	v works					
vatic	on Works for	Pile cap	s				
	or Retaining						
ah 1			w r u o				
		Page	e 6 of 1	3			
		1 age	0001	5			

y ID	Activity Name	emainii Juratio	r Early Start	Early Finish	Late Start	Late Finish	Total Float	October	2015 November
0810-1740	Construction of pile cap for Retaining Wall F @ PC12	21	09-Nov-15	02-Dec-15	28-Jun-16	22-Jul-16	190	11	18 25 01 08 15 22 29 06 Construction
0810-1760	Construction of pile cap for Retaining Wall F @ PC13	21	25-Nov-15		15-Jul-16	08-Aug-16	190		
0810-1780	Backfill of Retaining Wall F Pile Caps	7			14-Jan-17	<u> </u>	323		
0820-1000	low wall bet C4-13/14	5	24-Nov-15		06-Jan-17		338		low wall bet C4-13/
0820-1010	low wall bet C5-11/12	7	24-Nov-15			13-Jan-17	338		low wall bet C5
	I 6 OF THE WORKS	· ·		0.1200.10					
09.2 - Westbour									
0920-1080	Pier 27 Prepare C.J. for Column Construction	0	20-Oct-15	20-Oct-15	12-Jan-16	12-Jan-16		are C.J. f	br Column Construction
0920-1100	Pier 27 Construct Pier/Column	0	20-Oct-15	20-Oct-15	12-Jan-16			Pi	er 27 Construct Pier/Column
0920-1120	Pier 27 Construct Crosshead	23	20-Oct-15		12-Jan-16		69		Pier 27 Construct Crosshead
0920-1140	Pier 27 Install Bearing	9	16-Nov-15		11-Feb-16		69		Pier 27 Install Bearing
0920-1160	Pier 26 Prepare C.J. for Column Construction	0	20-Oct-15	20-Oct-15	04-Jan-16		00	Pier 26 P	epare C.J. for Column Construction
0920-1180	Pier 26 Construct Pier/Column	17	20-Oct-15		04-Jan-16		63		, Die 200 Operate at Die 200 alwert
									Pier 26 Construct Pier/Column Pier 2
0920-1200	Pier 26 Construct Crosshead	24	10-Nov-15		25-Jan-16		63		
0920-1220	Pier 26 Install Bearing	9	08-Dec-15	18-Dec-15	25-Feb-16	05-Mar-16	63		
	I X OF THE WORKS								
10.4 - Bridge De									
	W/B Bridge (Part 1)								
10410-1749	Dem. W/B Bridge Deck Pier 17-18 (1 beam) > by Crane B	0	20-Oct-15	20-Oct-15		24-Mar-16		17-18 (1	beam) > by Crane B 7-18 (1 beam) > by Crane B
10410-1750	Demolish W/B Bridge Deck Pier 17-18 (1 beam) > by Crane B	0	20-Oct-15	20-Oct-15	24-Mar-16	24-Mar-16			
10410-1753	Demolish W/B Bridge Deck Pier 18-19 (2 beams) > Saw Cutting of Bridge Deck & Parapet + Coring	0	20-Oct-15	20-Oct-15	24-Mar-16	24-Mar-16			Bridge Deck Pier 18-19 (2 beams) > Saw Cutting of Bridge Deck & Parapet +
10410-1754	Dem. W/B Bridge Deck Pier 18-19 (Half Beam-Eastside) w/ time constraint start at 4Pm > by Crane D	0	20-Oct-15	20-Oct-15	24-Mar-16	24-Mar-16		ı. W/B Bri	dge Deck Pier 18-19 (Half Beam-Eastside) w/ time constraint start at 4Pm > b
10410-1755	Demolish W/B Bridge Deck Pier 18-19 (Half Beam-Eastside) > by Crane D	0	20-Oct-15	20-Oct-15	24-Mar-16	24-Mar-16			B Bridge Deck Pier 18-19 (Half Beam-Eastside) > by Crane D
10410-1756	Dem. W/B Bridge Deck Pier 18-19 (Half Beam-Westside) w/ time constraint start at 4Pm > by Crane D	0	20-Oct-15	20-Oct-15	24-Mar-16	24-Mar-16		em. W/B	Bridge Deck Pier 18-19 (Half Beam-Westside) w/ time constraint start at 4Pm
10410-1757	Demolish W/B Bridge Deck Pier 18-19 (Half Beam-Westside) > by Crane D	0	20-Oct-15	20-Oct-15	24-Mar-16	24-Mar-16		Demolish	W/B Bridge Deck Pier 18-19 (Half Beam-Westside) > by Crane D
10410-1760	Cutting of W/B Bridge Crosshead Wing at Pier 19 for Modification > by Crane D	0	20-Oct-15	20-Oct-15	29-Mar-16	29-Mar-16			Cutting of W/B Bridge Crosshead Wing at Pier 19 for Modification > by Crane
10410-1761	Cutting of W/B Bridge Crosshead Wing at Pier 18 for Modification > by Crane D	2	20-Oct-15	22-Oct-15	24-Mar-16	26-Mar-16	128		Cutting of W/B Bridge Crosshead Wing at Pier 18 for Modification > by C
10410-1762	Removal of Shoring	0	20-Oct-15	20-Oct-15	22-Apr-16	22-Apr-16			noval of Shoring
10410-1763	Removal of Temporary Footing	0	20-Oct-15	20-Oct-15	22-Apr-16	22-Apr-16		I R	moval of Temporary Footing
10410-2400	Demolish Temp. W/B Bridge - Crosshead & Pier > Pier 38	0	20-Oct-15	20-Oct-15	20-Oct-15	20-Oct-15		Bridge -	Crosshead & Pier > Pier 38
10410-2420	Demolish Temp. W/B Bridge - Deck > Pier 36 to 37 (6 beams)	0	20-Oct-15	20-Oct-15	20-Oct-15	20-Oct-15		np. W/B	Bridge - Deck > Pier 36 to 37 (6 beams)
10410-2440	Demolish Temp. W/B Bridge - Crosshead & Pier > Pier 37	0	20-Oct-15	20-Oct-15	20-Oct-15	20-Oct-15		Demolis	h Temp. W/B Bridge - Crosshead & Pier > Pier 37
10410-2460	Demolish Temp. W/B Bridge - Deck > Pier 34 to 35 (6 beams)	0	20-Oct-15	20-Oct-15	20-Oct-15	20-Oct-15			Demolish Temp. W/B Bridge - Deck > Pier 34 to 35 (6 beams)
10410-2480	Demolish Temp. W/B Bridge - Crosshead & Pier > Pier 36	6	24-Oct-15	30-Oct-15	24-Oct-15	30-Oct-15	0		Demolish Temp. W/B Bridge - Crosshead & Pier > Pier 36
10410-2500	Demolish Temp. W/B Bridge - Deck > Pier 35 to 36 (6 beams)	3	20-Oct-15	23-Oct-15	20-Oct-15	23-Oct-15	0		Demolish Temp. W/B Bridge - Deck > Pier 35 to 36 (6 beams)
10410-2520	Demolish Temp. W/B Bridge - Crosshead & Pier > Pier 35 (by crane)	6	03-Nov-15	09-Nov-15	10-Nov-15	16-Nov-15	6		Demolish Temp. W/B Bridge - Crosshead & P
10410-2540	Demolish Temp. W/B Bridge - Crosshead & Pier > Pier 34 (by crane)	6	03-Nov-15	09-Nov-15	10-Nov-15	16-Nov-15	6		Demolish Temp. W/B Bridge - Crosshead & P
10.1 - E/B Bridg	es (Bridge D, E and F)								
10.1.1 - Marine F	ier Construction								
Pier F01 to F02									
1011-8600	F1B Pier/Column Construction	12	20-Oct-15	03-Nov-15	29-Oct-15	11-Nov-15	7		F1B Pier/Column Construction
1011-8620	F1B Crosshead Construction		04-Nov-15				7		F1B Crosshead Construct
1011-8640	Bearing installation pier F1B & F2B		25-Nov-15				7		Bear
1011-0040	שכמוווא וואמוומווטוו אוכו ד ום מדבם	12	20-1100-10	00-Dec-15	00-060-10	10-060-10	1		

······································		
Actual Level of Effort		
Actual Work	Contract HY/2009/19	
Remaining Work	Three Months Rolling Programme (20 Oct 2015 to 19 Jan 2016)	
Critical Remaining Work		

December	2016	
13 20 27	January 03 10	17 24
n of pile cap for Retaining W	all F @ PC12	., 27
Construction of p	ile cap for Retaining W	/all F @ PC13
Ba	ckfill of Retaining Wall	F Pile Caps
3/14		
C5-11/12		
าg		
r 26 Construct Crosshead		
Pier 26 Install Bea	aring	
+ Coring		
by Crane D		
m > by Crane D		
ne D		
/ Crane D		
Pier > Pier 35 (by crane)		
Pier > Pier 34 (by crane)		
uction		
aring installation pier F1B &	F2B	
0 p		
Dama 7 - f	12	
Page 7 of	1.5	

		Juratio	or				Float	October 11	November 01 08 15 22 29 06
.1.4 - Bridge E /	Hing Fat Slip Road								
ridge Construc	tion						_		
1014-1880	Construction (Pier E4 - Pier E2) > Construct Crosshead + Bearing at Pier E3	0	20-Oct-15	20-Oct-15	26-Oct-15	26-Oct-15		(Pier E4	Pier E2) > Construct Crosshead + Bearing at Pier E3
1014-1900	Construction (Pier E4 - Pier E2) > Modification of Crosshead + Bearing at Pier E4 & E2	0	20-Oct-15	20-Oct-15	08-Nov-19	08-Nov-19		r E4 - Pie	r E2) > Modification of Crosshead + Bearing at Pier E4 & E2
014-1920	Construction (Pier E4 - Pier E2) > Erect 3nos Beams > Pier E3-E2	0	20-Oct-15	20-Oct-15	26-Oct-15	26-Oct-15			er E4 - Pier E2) > Erect 3nos Beams > Pier E3-E2
014-1940	Construction (Pier E4 - Pier E2) > Erect 3nos Beams > Pier E4-E3	0	20-Oct-15	20-Oct-15	08-Nov-19	08-Nov-19		Constru	ction (Pier E4 - Pier E2) > Erect 3nos Beams > Pier E4-E3
1015-1950	Bridge E (Pier E2 - E3) - Planking	0	20-Oct-15	20-Oct-15	26-Oct-15	26-Oct-15		Bridg	e E (Pier E2 - E3) - Planking
1015-1960	Bridge E (Pier E2 - E3) - Scaffolding	0	20-Oct-15	20-Oct-15	26-Oct-15	26-Oct-15		E	ridge E (Pier E2 - E3) - Scaffolding
1015-1970	Bridge E (Pier E2 - E3) - Soffit Formworks	1	20-Oct-15	20-Oct-15	26-Oct-15	26-Oct-15	4		Bridge E (Pier E2 - E3) - Soffit Formworks
1015-1980	Bridge E (Pier E2 - E3) - (Diaphgram + Decking) - Rebar Fixing	3	22-Oct-15	24-Oct-15	27-Oct-15	29-Oct-15	4		Bridge E (Pier E2 - E3) - (Diaphgram + Decking) - Rebar Fixing
1015-1990	Bridge E (Pier E2 - E3) - D(Diaphgram + Decking) - Install Shutter	1	24-Oct-15	24-Oct-15	29-Oct-15	29-Oct-15	4		Bridge E (Pier E2 - E3) - D(Diaphgram + Decking) - Install Shutter
1015-2000	Bridge E (Pier E2 - E3) - (Diaphgram + Decking) - Concreting	1	26-Oct-15	26-Oct-15	30-Oct-15	30-Oct-15	4		Bridge E (Pier E2 - E3) - (Diaphgram + Decking) - Concreting
1015-2010	Bridge E (Pier E2 - E3) - (Wing Extension) - Hanger platform (Sea Side)	5	27-Oct-15	31-Oct-15	31-Oct-15	05-Nov-15	4		Bridge E (Pier E2 - E3) - (Wing Extension) - Hanger platfe
015-2020	Bridge E (Pier E2 - E3) - (Wing Extension) - Rebar fixing	3	02-Nov-15	04-Nov-15	06-Nov-15	09-Nov-15	4		Bridge E (Pier E2 - E3) - (Wing Extension) - Rebart
015-2030	Bridge E (Pier E2 - E3) - (Wing Extension) - Install shutter	1	04-Nov-15	04-Nov-15	09-Nov-15	09-Nov-15	4		Bridge E (Pier E2 - E3) - (Wing Extension) - Install s
015-2040	Bridge E (Pier E2 - E3) - (Wing Extension) - Concreting	1	05-Nov-15	05-Nov-15	10-Nov-15	10-Nov-15	4		Bridge E (Pier E2 - E3) - (Wing Extension) - Conc
1015-2050	Bridge E (Pier E2 - E3) - Parapet - Stage 2	6	06-Nov-15	12-Nov-15	11-Nov-15	17-Nov-15	4		Bridge E (Pier E2 - E3) - Parapet - Stag
015-2060	Bridge E (Pier E2 - E3) - Duct Laying - Satage 2	6	06-Nov-15	12-Nov-15	12-Nov-15	18-Nov-15	5		Bridge E (Pier E2 - E3) - Duct Laying - S
1015-2070	Bridge E (Pier E2 - E3) - M.J	2	13-Nov-15	14-Nov-15	19-Nov-15	20-Nov-15	5		Bridge E (Pier E2 - E3) - M.J
1015-2080	Bridge E (Pier E2 - E3) - L3 Railing - Stage 2	3	13-Nov-15	16-Nov-15	18-Nov-15	20-Nov-15	4		Bridge E (Pier E2 - E3) - L3 Railin
015-2090	Bridge E (Pier E2 - E3) - Asphalt	3	17-Nov-15	19-Nov-15	21-Nov-15	24-Nov-15	4		Bridge E (Pier E2 - E3) - Asph
015-2100	Bridge E (Pier E2 - E3) - Road Marking	2	20-Nov-15	21-Nov-15	25-Nov-15	26-Nov-15	4		Bridge E (Pier E2 - E3) - R
015-2110	Bridge E (Pier E2 - E3) - Parapet - Stage 1	6	27-Oct-15	02-Nov-15	04-Nov-15	10-Nov-15	7		Bridge E (Pier E2 - E3) - Parapet - Stage 1
015-2120	Bridge E (Pier E2 - E3) - Duct Laying - Satage 1	6	27-Oct-15	02-Nov-15	05-Nov-15	11-Nov-15	8		Bridge E (Pier E2 - E3) - Duct Laying - Satage 1
)15-2130	Bridge E (Pier E2 - E3) - L3 Railing - Stage 1	4	03-Nov-15	06-Nov-15	13-Nov-15	17-Nov-15	9		Bridge E (Pier E2 - E3) - L3 Railing - Stage 1
15-2140	Bridge E (Pier E3 - E4) - Planking	0	20-Oct-15	20-Oct-15	08-Nov-19	08-Nov-19		ge E (Pie	E3 - E4) - Planking
015-2150	Bridge E (Pier E3 - E4) - Scaffolding	0	20-Oct-15	20-Oct-15	08-Nov-19	08-Nov-19		Bridg	e E (Pier E3 - E4) - Scaffolding
015-2160	Bridge E (Pier E3 - E4) - Soffit Formwork	0	20-Oct-15	20-Oct-15	08-Nov-19	08-Nov-19		E	ridge E (Pier E3 - E4) - Soffit Formwork
015-2170	Bridge E (Pier E3 - E4) - (Diaphgram + Additional Diaphgram + Decking) - Rebar Fixing	2	20-Oct-15	22-Oct-15	31-Oct-15	02-Nov-15	9		Bridge E (Pier E3 - E4) - (Diaphgram + Additional Diaphgram + Decki
015-2180	Bridge E (Pier E3 - E4) - (Diaphgram + Additional Diaphgram + Decking) - Shutter	1	22-Oct-15	22-Oct-15	02-Nov-15	02-Nov-15	9		Bridge E (Pier E3 - E4) - (Diaphgram + Additional Diaphgram + Decki
015-2190	Bridge E (Pier E3 - E4) - (Diaphgram + Additional Diaphgram + Decking) - Concreting	1	23-Oct-15	23-Oct-15	03-Nov-15	03-Nov-15	9		Bridge E (Pier E3 - E4) - (Diaphgram + Additional Diaphgram + Dec
015-2200	Bridge E (Pier E3 - E4) - Parapet	7	23-Oct-15	30-Oct-15	03-Nov-15	10-Nov-15	9		Bridge E (Pier E3 - E4) - Parapet
015-2210	Bridge E (Pier E3 - E4) - Drain Pipe Laying	7	23-Oct-15	30-Oct-15	03-Nov-15	10-Nov-15	9		Bridge E (Pier E3 - E4) - Drain Pipe Laying
015-2220	Bridge E (Pier E3 - E4) - M.J	2	31-Oct-15	02-Nov-15	11-Nov-15	12-Nov-15	9		Bridge E (Pier E3 - E4) - M.J
015-2230	Bridge E (Pier E3 - E4) - L3 Railing	7	03-Nov-15	10-Nov-15	13-Nov-15	20-Nov-15	9		Bridge E (Pier E3 - E4) - L3 Railing
015-2240	Bridge E (Pier E3 - E4) - Asphalt	3	11-Nov-15	13-Nov-15	21-Nov-15	24-Nov-15	9		Bridge E (Pier E3 - E4) - Asphalt
015-2250	Bridge E (Pier E3 - E4) - Road Marking	2	14-Nov-15	16-Nov-15	25-Nov-15	26-Nov-15	9		🔲 Bridge E (Pier E3 - E4) - Road Ma
015-2260	Bridge E (Pier E4 towards HFS-Rd) - Scaffolding	0	20-Oct-15	20-Oct-15	08-Nov-19	08-Nov-19			(Pier E4 towards HFS-Rd) - Scaffolding
015-2270	Bridge E (Pier E4 towards HFS-Rd) - Formwork	0	20-Oct-15	20-Oct-15	08-Nov-19	08-Nov-19		E E	ridge E (Pier E4 towards HFS-Rd) - Formwork
015-2280	Bridge E (Pier E4 towards HFS-Rd) - Wing Extension	1	20-Oct-15	20-Oct-15	13-Nov-15	13-Nov-15	20		Bridge E (Pier E4 towards HFS-Rd) - Wing Extension
015-2290	Bridge E (Pier E4 towards HFS-Rd) - Parapet	4	22-Oct-15	26-Oct-15	14-Nov-15	18-Nov-15	20		Bridge E (Pier E4 towards HFS-Rd) - Parapet
1015-2300	Bridge E (Pier E4 towards HFS-Rd) - Draine - pipe Laying	4	22-Oct-15	26-Oct-15	14-Nov-15	18-Nov-15	20	+	Bridge E (Pier E4 towards HFS-Rd) - Draine - pipe Laying
015-2310	Bridge E (Pier E4 towards HFS-Rd) - L3 Railing	3	27-Oct-15	29-Oct-15	19-Nov-15	21-Nov-15	20		Bridge E (Pier E4 towards HFS-Rd) - L3 Railing

 Remaining Work

 Critical Remaining Work

Three Months Rolling Programme (20 Oct 2015 to 19 Jan 2016)

December			-	2016		
December 13	20	27	03	January 10	17	24
10	20	2,	00	10		121
orm (Sea Sid	de)					
ixing						
hutter						
eting						
e 2						
atage 2						
g - Stage 2						
alt						
ad Marking						
ng) - Rebar I	Fixing					
ng) - Shutter						
ing) - Concr	etina					
rking						

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D	Activity Name	emainir Early Juratio	y Start Early Finish	Late Start	Late Finish	Total Float	October	2015 November
1015-2320	Bridge E (Pier E4 towards HFS-Rd) - Asphalt	2 30-0	Oct-15 31-Oct-15	23-Nov-15	24-Nov-15	20	11	18 25 01 08 15 22 29 06 Image: Bridge E (Pier E4 towards HFS-Rd) - Asphalt Bridge E (Pier E4 towards HFS-Rd) - Asphalt Bridge E (Pier E4 towards HFS-Rd) - Asphalt
1015-2330	Bridge E (Pier E4 towards HFS-Rd) - Road Marking	2 02-N	Nov-15 03-Nov-15	25-Nov-15	26-Nov-15	20		Bridge E (Pier E4 towards HFS-Rd) - Road Marking
.2 - W/B Bridge	es (Bridge C and F)							
0.2.1 - Pier Cons	struction							
Pier 38 to 43								
1021-1820	Pier 38 (F3C) Prepare C.J. at Existing Pile Cap	0 20-0	Oct-15 20-Oct-15	05-Jan-16	05-Jan-16		Pier 38 (F	3C) Prepare C.J. at Existing Pile Cap
1021-1840	Pier 38 (F3C) Construct Pier/Column	18 20-0	Oct-15 10-Nov-15	05-Jan-16	25-Jan-16	63		Pier 38 (F3C) Construct Pier/Column
1021-1860	Pier 38 (F3C) Construct Crosshead	24 11-N	Nov-15 08-Dec-15	26-Jan-16	25-Feb-16	63		F
1021-1880	Pier 38 (F3C) Install Bearing	9 09-E	Dec-15 18-Dec-15	26-Feb-16	07-Mar-16	63		
1021-1900	Pier 39 (F4C) Prepare C.J. at Existing Pile Cap	0 20-0	Oct-15 20-Oct-15	13-Jan-16	13-Jan-16		C) Prepar	e C.J. at Existing Pile Cap
1021-1920	Pier 39 (F4C) Construct Pier/Column	17 20-0	Oct-15 10-Nov-15	13-Jan-16	02-Feb-16	71		Pier 39 (F4C) Construct Pier/Column
1021-1940	Pier 39 (F4C) Construct Crosshead	24 10-N	Nov-15 08-Dec-15	03-Feb-16	04-Mar-16	71		
1021-1960	Pier 39 (F4C) Install Bearing	9 08-E	Dec-15 18-Dec-15	05-Mar-16	15-Mar-16	71		
1021-1980	Pier 40 (F5C) Prepare C.J. at Existing Pile Cap	0 20-0	Oct-15 20-Oct-15	13-Jan-16	13-Jan-16		Prepare C	.J. at Existing Pile Cap
1021-2000	Pier 40 (F5C) Construct Pier/Column	17 20-0	Oct-15 10-Nov-15	13-Jan-16	02-Feb-16	71		Pier 40 (F5C) Construct Pier/Column
1021-2020	Pier 40 (F5C) Construct Crosshead	24 10-N	Nov-15 08-Dec-15	03-Feb-16	04-Mar-16	71		F
1021-2040	Pier 40 (F5C) Install Bearing	9 08-E	Dec-15 18-Dec-15	05-Mar-16	15-Mar-16	71		
1021-2060	Pier 41 (F6C) Prepare C.J. at Existing Pile Cap	0 20-0	Oct-15 20-Oct-15	05-Jan-16	05-Jan-16		pare C.J.	at Existing Pile Cap
1021-2080	Pier 41 (F6C) Construct Pier/Column	18 20-0	Oct-15 10-Nov-15	05-Jan-16	25-Jan-16	63		Pier 41 (F6C) Construct Pier/Column
1021-2100	Pier 41 (F6C) Construct Crosshead	24 11-N	Nov-15 08-Dec-15	23-Feb-16	21-Mar-16	84		
1021-2120	Pier 41 (F6C) Install Bearing	9 09-E	Dec-15 18-Dec-15	22-Mar-16	02-Apr-16	84		C
1021-2160	Pier 42 (F7C) Construct Pier/Column	0 20-0	Oct-15 20-Oct-15	13-Jan-16	13-Jan-16		Pi	er 42 (F7C) Construct Pier/Column
1021-2180	Pier 42 (F7C) Construct Crosshead	24 20-0	Oct-15 17-Nov-15	17-Mar-16	16-Apr-16	122		Pier 42 (F7C) Construct Cross
1021-2200	Pier 42 (F7C) Install Bearing	9 17-N	Nov-15 27-Nov-15	18-Apr-16	27-Apr-16	122		Pier 42 (F7C) In
1021-2240	Pier 43 (F8C) Construct Pier/Column	0 20-0	Oct-15 20-Oct-15	13-Jan-16	13-Jan-16		8C) Cons	truct Pier/Column
1021-2260	Pier 43 (F8C) Construct Crosshead	24 20-0	Oct-15 17-Nov-15	31-Mar-16	28-Apr-16	132		Pier 43 (F8C) Construct Cross
1021-2280	Pier 43 (F8C) Install Bearing	9 18-N	Nov-15 27-Nov-15	29-Apr-16	09-May-16	132		Pier 43 (F8C) In:
Pier 36 to 37								
1021-1580	Pier 36 (F1C) Prepare CJ at Existing Pile Cap	11 31-0	Oct-15 12-Nov-15	19-Nov-15	01-Dec-15	16		Pier 36 (F1C) Prepare CJ at Existing
1021-1600	Pier 36 (F1C) Construct Pier/Column		Nov-15 03-Dec-15			16		Pier 36
1021-1620	Pier 36 (F1C) Construct Crosshead	24 04-E				16		
1021-1640	Pier 36 (F1C) Install Bearing			22-Jan-16		16		
1021-1660	Pier 37 (F2C) Prepare CJ at Existing Pile Cap			09-Dec-15		42		Pier 37 (F2C) Prepare CJ at Existing Pile Cap
1021-1680	Pier 37 (F2C) Construct Pier/Column		Nov-15 23-Nov-15			42		Pier 37 (F2C) Constru
1021-1700	Pier 37 (F2C) Construct Crosshead			14-Jan-16		42		
1021-1720	Pier 37 (F2C) Install Bearing	9 22-0	Dec-15 02-Jan-16	15-Feb-16	24-Feb-16	42		
Abutment D12					40 1 15	0.1		
1021-1020	Construct Abutment D12 W/B Bridge		Nov-15 14-Dec-15			24		
1021-1040	Bearing installation D12 W/B Bridge	9 15-0	Dec-15 24-Dec-15	14-Jan-16	23-Jan-16	24		
Pier 28	Disc 20 Operationst Disc/Oplicetor			00.031.45	20 04 15	1	of the state of th	r (Caluma
1021-1760	Pier 28 Construct Pier/Column			26-Oct-15				ar/Column er 28 Construct Crosshead
1021-1780	Pier 28 Construct Crosshead			26-Oct-15		4		Pier 28 Install Bearing
1021-1800	Pier 28 Install Bearing	5 20-0	Oct-15 26-Oct-15	26-Oct-15	30-Oct-15	4		Fiel 20 IIIStall Dealling

Critical Remaining Work

Three Months Rolling Programme (20 Oct 2015 to 19 Jan 2016)

				2016		
December 13	20	27	03	January 10	17	24
10	20	21	00	10	17	27
	Construct	Crooob				
er 38 (F3C) (
	Pier 38 (F	3C) Inst	all Bearing			
r 39 (F4C) C	Construct (Crosshe	ad			
F	Pier 39 (F4	C) Insta	all Bearing			
r 40 (F5C) C	Construct (Crosshe	ad			
F	Pier 40 (Ff	C) Insta	all Bearing			
er 41 (F6C) (Construct	Crosshe	ead			
	Pier 41 (F	bC) inst	all Bearing			
ad						
III Bearing						
ad						
II Bearing						
in bearing						
e Cap						
1C) Constru	ct Pier/Co	lumn				
			Pier 36 ((F1C) Cons	struct Ci	osshe
				Pie	r 36 (F1	C) Ins
D'						
Pier/Colum						
	Pier 3	7 (F2C)	Construct C	Crosshead		
			Pier 37 (F2C) Insta	II Bearii	ng
			2 W/B Bridg	е		
	B	earing i	nstallation D	012 W/B Br	idge	
	Page	e 9 of 1	3			

ID	Activity Name	Duratio	ir Early Start	Early Finish	Late Start	Late Finish	Total Float	October	2015 November 1 18 25 01 08 15 22 29 06
Pier 20 to 25								11	18 25 01 08 15 22 29 06
1021-1060	Pier 22 Prepare C.J. for Column Construction	10	20-Oct-15	31-Oct-15	20-Feb-16	03-Mar-16	101		Pier 22 Prepare C.J. for Column Construction
1021-1080	Pier 22 Reconstruct Column	18	02-Nov-15	21-Nov-15	03-Mar-16	24-Mar-16	101		Pier 22 Reconstruct Colu
1021-1100	Pier 22 Reconstruct Crosshead	24	23-Nov-15	19-Dec-15	24-Mar-16	25-Apr-16	101		
1021-1120	Pier 22 Install Bearing	6	21-Dec-15	29-Dec-15	25-Apr-16	02-May-16	101		
1021-1280	Pier 24 Prepare C.J. for Column Construction	1	20-Oct-15	20-Oct-15	23-Jan-16	23-Jan-16	79		Pier 24 Prepare C.J. for Column Construction
1021-1300	Pier 24 Reconstruct Column	18	22-Oct-15	11-Nov-15	25-Jan-16	17-Feb-16	79		Pier 24 Reconstruct Column
1021-1320	Pier 24 Reconstruct Crosshead	24	12-Nov-15	09-Dec-15	18-Feb-16	16-Mar-16	79		
1021-1340	Pier 24 Install Bearing	9	10-Dec-15	19-Dec-15	17-Mar-16	29-Mar-16	79		
1021-1360	Pier 25 Prepare C.J. for Column Construction	0	20-Oct-15	20-Oct-15	25-Jan-16	25-Jan-16		Pier 25	Prepare C.J. for Column Construction
1021-1380	Pier 25 Reconstruct Column	18	20-Oct-15	10-Nov-15	25-Jan-16	17-Feb-16	80		Pier 25 Reconstruct Column
1021-1400	Pier 25 Reconstruct Crosshead	24	11-Nov-15	08-Dec-15	18-Feb-16	16-Mar-16	80		
1021-1420	Pier 25 Install Bearing	9	09-Dec-15	18-Dec-15	17-Mar-16	29-Mar-16	80		Ĩ
1021-1520	Pier 23 Reconstruct Column	18	20-Oct-15	10-Nov-15	25-Jan-16	17-Feb-16	80		Pier 23 Reconstruct Column
1021-1540	Pier 23 Reconstruct Crosshead	24	11-Nov-15	08-Dec-15	18-Feb-16	16-Mar-16	80		
1021-1560	Pier 23 Install Bearing	9	09-Dec-15	18-Dec-15	17-Mar-16	29-Mar-16	80		I
Pier 17 to 19					1	1			
1021-1215	Modify Pier 21 Crosshead (south wing) + Bearing	20	20-Oct-15	12-Nov-15	29-Mar-16	21-Apr-16	130		Modify Pier 21 Crosshead (south wir
1021-1225	Modify Pier 20 Crosshead (south wing) + Bearing	20	20-Oct-15	12-Nov-15	29-Mar-16	21-Apr-16	130		Modify Pier 20 Crosshead (south wir
1021-1230	Modify Pier 19 Crosshead (south wing) + Bearing	20	20-Oct-15	12-Nov-15	29-Mar-16	21-Apr-16	130		Modify Pier 19 Crosshead (south wi
1021-1235	Modify Pier 18 Crosshead (south wing) + Bearing	20	23-Oct-15	14-Nov-15	29-Mar-16	21-Apr-16	128		Modify Pier 18 Crosshead (south
0.2.2 - Bridge Co	nstruction								
Bridge C3									
1022-1070	Erect/Assemble LG2 at Piers 29 and 30 + T&C	40	26-Nov-15		02-Jan-16		30		
1022-1120	Bridge C3 - Erect Pier Segment at Pier 27 (1no) > by LG2	1	14-Jan-16		22-Feb-16		30		
1022-2580	Bridge C3 - Erect T-span at Pier 27 (10 nos) > By LG2	8	14-Jan-16		22-Feb-16		30		
1022-2582	Bridge C3 - Erect End Span at Pier 28 (5 nos) > By LG2	4	23-Jan-16		02-Mar-16		30		
1022-2620	Bridge C3 - Erect Pier Segment at Pier 26 (1no) > By LG2	1	28-Jan-16		07-Mar-16		30		
1022-2650	Bridge C3 - Stitching at midspan between Pier 27 and 28	2	28-Jan-16	29-Jan-16	07-Mar-16	08-Mar-16	30		
Bridge C4			1	1	1	1			
1022-1453	Bridge C5 - Erect Pier Segment at Pier 33 (1 no) > By Crane	0	20-Oct-15	20-Oct-15	20-Oct-15			Bridge	C5 - Erect Pier Segment at Pier 33 (1 no) > By Crane
	Bridge C4 - Erect Pier Segment at Pier 32 (2 nos) > By Crane	2	20-Oct-15		20-Oct-15		0		Bridge C4 - Erect Pier Segment at Pier 32 (2 nos) > By Crane
1022-1453.3	Bridge C4 - Erect Pier Segment at Pier 31 (1 no) > By Crane	2	23-Oct-15		24-Oct-15		1		Bridge C4 - Erect Pier Segment at Pier 31 (1 no) > By Crane
	Bridge C4 - Erect Pier Segment at Pier 30 (1 no) > By Crane	2	26-Oct-15	27-Oct-15		28-Oct-15	1		Bridge C4 - Erect Pier Segment at Pier 30 (1 no) > By Crar
1022-1453.5	Bridge C4 - Erect Pier Segment at Pier 29 (1 no) > By Crane	2	28-Oct-15	29-Oct-15	29-Oct-15	30-Oct-15	1		Bridge C4 - Erect Pier Segment at Pier 29 (1 no) > By C
	Bridge C4 - Erect Pier Segment at Pier 28 (2 nos) > By Crane	2	30-Oct-15		31-Oct-15	02-Nov-15	1		Bridge C4 - Erect Pier Segment at Pier 28 (2 nos) > E
1022-1454	Erect Temp. Support on Top of Pier Segment P33 & 32 to much-up level of Ex. Pier 34	7	23-Oct-15	30-Oct-15	23-Oct-15	30-Oct-15	0		Erect Temp. Support on Top of Pier Segment P33 & 32 Move LG1 to Temp. Support at Pier 33-32 from Pie
1022-1455	Move LG1 to Temp. Support at Pier 33-32 from Pier 34-35	2	31-Oct-15		31-Oct-15	02-Nov-15	0		
1022-1455.2	Luanch LG1 to Pier 28 - Pier 30	3	03-Nov-15		03-Nov-15		0		Luanch LG1 to Pier 28 - Pier 30
	Bridge C4 - Erect T-Span Segment at Pier 29 (12 nos) > by LG1	8	06-Nov-15		06-Nov-15		0		Bridge C4 - Erect T-Span Segmer
	Bridge C4 - Erect End Span Segment at Pier 28 (4 nos) > By LG1	3	16-Nov-15		16-Nov-15		0		Bridge C4 - Erect End Span
	Bridge C4 - Erect T-Span Segment at Pier 30 (10 nos) > by LG1	6	19-Nov-15		19-Nov-15		0		Bridge C4 - Erect
1022-1456.5	Luanch LG1 to Pier 31 - Pier 33	1	26-Nov-15	26-Nov-15	26-Nov-15	26-Nov-15	0		Luanch LG1 to F

Critical Remaining Work

Three Months Rolling Programme (2	20 Oct 2015 to 19 Jan 2016)
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				2016		
December		07	02	January	47	104
13	20	27	03	10	17	24
n						
	Pier 22 F	Reconst	truct Crosshe	ead		
		Pi	er 22 Install I	Bearing		
	notruct Cr					
Pier 24 Reco	onstruct Cr	ossnea	a			
	Pier 24 I	nstall B	earing			
er 25 Recor	struct Cro	sshead				
	Pier 25 In	stall Be	aring			
00 5						
er 23 Recor	istruct Cro	ssnead				
	Pier 23 In	stall Be	aring			
+ Bearing						
+ Bearing						
+ Bearing						
ng) + Bearin	a					
•	•					
				Fre	ct/Asser	nhle
					idge C3	- Ere
						Bric
е						
Crane						
nuch-up lev	el of Ex. P					
1-35						
t Pier 29 (12	2 nos) > bv	LG1				
gment at Pi						
pan Segme	nt at Pier	30 (10 r	nos) > by LGʻ	1		
31 - Pier 33						
	,					

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Activit	y ID	Activity Name		ir Early Start	Early Finish	Late Start	Late Finish	Total		2015 2016
			Juratio	וס				Float	October	November December January 18 25 01 08 15 22 29 06 13 20 27 03 10 17 24
	1022-1457	Bridge C4 - Erect T-Span Segment at Piers 31 (12 nos) > by LG1	8	27-Nov-15	05-Dec-15	27-Nov-15	05-Dec-15	0		Bridge C4 - Erect T-Span Segment at Piers 31 (12 nos) > by LG1
	1022-1458	Bridge C4 - Erect End Span Segment at Piers 32 (4 nos) > by LG1	3	07-Dec-15	09-Dec-15	07-Dec-15	09-Dec-15	0	·	Bridge C4 - Erect End Span Segment at Piers 32 (4 nos) > by LG1
	1022-1458.2	Bridge C4 - Stitching between Pier 28 - 29	2				29-Feb-16	81		□ Bridge C4 - Stitching between Pier 28 - 29
										■ Bridge C4 - Stitching between Pier 29 - 30
	1022-1458.3	Bridge C4 - Stitching between Pier 29 - 30					29-Feb-16	75		
	1022-1458.4	Bridge C4 - Stitching between Pier 30 - 31	2	07-Dec-15	08-Dec-15	27-Feb-16	29-Feb-16	66		Bridge C4 - Stitching between Pier 30 - 31
	1022-1459	Bridge C4 - Stitching between Pier 31 - 32	2	10-Dec-15	11-Dec-15	10-Dec-15	11-Dec-15	0		Bridge C4 - Stitching between Pier 31 - 32
	1022-1460	Bridge C4 - External Stressing	10	12-Dec-15	23-Dec-15	01-Mar-16	11-Mar-16	63		Bridge C4 - External Stressing
	1022-1620	Bridge C4 - Construct South Parapet (108m)	23	24-Dec-15	21-Jan-16	12-Mar-16	11-Apr-16	63	·	Bridge C4 - External Stressing
	1022-1640	Bridge C4 - Construct North Parapet (108m)	23	24-Dec-15	21-Jan-16	12-Mar-16	11-Apr-16	63	·	Bridg
	1022-3830	Complete Part of Portion VB (from Pier 28 - Pier 32)	0		11-Dec-15		11-Dec-15	0	·	◆ Complete Part of Portion VB (from Pier 28 - Pier 32)
	1022-3840	Handover to Portion VB to CC contract (from Pier 28 - Pier 34)	0		11-Jan-16		11-Jan-16	0		◆ Handover to Portion
			U		TI-Jali-10		II-Jall-10	0		
	Bridge C5									
	1022-1570	Bridge C5 - Erect T-span at Pier 33 (10 nos) > by LG1	9	10-Dec-15	19-Dec-15	10-Dec-15	19-Dec-15	0		Bridge C5 - Erect T-span at Pier 33 (10 nos) > by LG
	1022-1575	Bridge C4 - Erect End Span Segment at Piers 32 (5 nos) > by LG1	5	21-Dec-15	26-Dec-15	21-Dec-15	26-Dec-15	0		Bridge C4 - Erect End Span Segment at Pi
	1022-1578	Luanch LG1 to Pier 34 - Pier 36	1	28-Dec-15	28-Dec-15	28-Dec-15	28-Dec-15	0		Luanch LG1 to Pier 34 - Pier 36
	1022-1580	Bridge C5 - Erect T-span at Pier 34 (8 nos) > By LG1	8	29-Dec-15	07-Jan-16	29-Dec-15	07-Jan-16	0		Bridge C5 - Erect T-span
	1022-1585	Bridge C5 - Erect Pier Segment at Abut D12 (2 nos) > by LG1	2	08-Jan-16	09-Jan-16	25-Jan-16	26-Jan-16	14		Bridge C5 - Erect Pier
	1022-1588	Bridge C5 - Erect E-span at Abut D12 (5 nos) > by LG1					01-Feb-16	14	·	Bridge C5 - Elect Pier
			5							
	1022-1600	Bridge C5 - Stitching between Pier 32 and 33	3				20-Jun-16	140		Bridge C5 - Stitching between Pier 3 Bridge C5 - Stitching between C5 - Stitching
	1022-1700	Bridge C5 - Stitching between Pier 33 and 34	3	08-Jan-16	11-Jan-16	08-Jan-16	11-Jan-16	0		
	1022-1760	Bridge C5 - Stitching between Pier 34 and D12	3	16-Jan-16	19-Jan-16	21-Jun-16	23-Jun-16	127		Bridge C
	1022-1780	Bridge C5 - External Stressing	7	16-Jan-16	23-Jan-16	21-Jun-16	28-Jun-16	127		Br
	Bridge F1C									
	1022-1840	Bridge F1C - Erect Pier Segment at Pier 36 (1 nos) > by LG1	1	16-Jan-16	16-Jan-16	02-Feb-16	02-Feb-16	14		Bridge F1C
	1022-1860	Bridge F1C- Erect T-span at Pier 36 (12 nos) > by LG1	11	18-Jan-16	29-Jan-16	03-Feb-16	18-Feb-16	14		-
	10.3 - Middle Brid									
	10.3.1 - Pier Cons									
	Abutment D12									
	1031-1920	Complete ABUT D12 at Middle Bridge	45	21-Nov-15	14-Jan-16	30-Nov-15	22-Jan-16	7		Complete ABU
	10.5 - Temporary	/ Bridge								
	10.5.1 - Tempora	ry Bridge 'TA'								
	1051-3270	Demolition TA2 (Prepation and Mobilization) - TA28-27	7	27-Nov-15	04-Dec-15	28-Nov-15	05-Dec-15	1		Demolition TA2 (Prepation and Mobilization) - TA28-27
	1051-3280	Demolition TA2 (Removal of Bridge Deck) - TA28-27	6	05-Dec-15	11-Dec-15	27-Jan-16	02-Feb-16	43	·	Demolition TA2 (Removal of Bridge Deck) - TA28-27
	1051-3290	Demolition TA2 (Removal of Pier 28)	5				11-Feb-16	43	·	Demolition TA2 (Removal of Pier 28)
		, , ,						+5		Demolition TA2 (Prepation and Mobilization) - TA27-26
	1051-3300	Demolition TA2 (Prepation and Mobilization) - TA27-26	1	04-Dec-15			12-Dec-15	1		,
	1051-3310	Demolition TA2 (Removal of Bridge Deck) - TA27-26	6	11-Dec-15	17-Dec-15	12-Dec-15	18-Dec-15	1		Demolition TA2 (Removal of Bridge Deck) - TA27-26
	1051-3320	Demolition TA2 (Removal of Pier 27)	5	18-Dec-15	23-Dec-15	19-Dec-15	24-Dec-15	1		Demolition TA2 (Removal of Pier 27)
	1051-3380	Demolition TA2 (Prepation and Mobilization) - TA24-23	7	27-Nov-15	04-Dec-15	01-Dec-15	08-Dec-15	3		Demolition TA2 (Prepation and Mobilization) - TA24-23
	1051-3390	Demolition TA2 (Removal of Bridge Deck) - TA24-23	6	04-Dec-15	10-Dec-15	08-Dec-15	14-Dec-15	3		Demolition TA2 (Removal of Bridge Deck) - TA24-23
	1051-3400	Demolition TA2 (Prepation and Mobilization) - TA23-21	7	02-Dec-15	09-Dec-15	05-Dec-15	12-Dec-15	3		Demolition TA2 (Prepation and Mobilization) - TA23-21
	1051-3410	Demolition TA2 (Removal of Bridge Deck) - TA23-21	6	11-Dec-15	17-Dec-15	15-Dec-15	21-Dec-15	3	·	Demolition TA2 (Removal of Bridge Deck) - TA23-21
	1051-3420	Demolition TA2 (Removal of Pier 22 & 21)	8				31-Dec-15	3	·	Demolition TA2 (Removal of Pier 22 & 2
		, ,								Demolition TA2 (Removal of Pier 23)
	1051-3470	Demolition TA2 (Removal of Pier 23)	3	28-Dec-15	30-Dec-15	18-Jan-16	20-Jan-16	17		
		1								Ι
-		ng Level of Effort Milestone 								
		evel of Effort			<u>م</u>	ontrac	t HY/20	00/4	٥	
	Actual W	/ork			し し	unuac	ι Π1/20	U3/ I	J	Dec. 11 - 612

Three Months Rolling Programme (20 Oct 2015 to 19 Jan 2016)
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Critical Remaining Work

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D	Activity Name	Duration	Early Start	Early Finish	Late Start	Late Finish	Total Float	October	2015 November
1051-3480	Demolition TA2 (Prepation and Mobilization) - TA24-25	6	07-Dec-15	12-Dec-15	16-Dec-15	22-Dec-15	8	11	18 25 01 08 15 22 29 06
051-3490	Demolition TA2 (Removal of Bridge Deck) - TA24-25	8	14-Dec-15	22-Dec-15	05-Jan-16	13-Jan-16	17		
-3500	Demolition TA2 (Removal of Pier 24)	3	23-Dec-15	26-Dec-15	14-Jan-16	16-Jan-16	17		
51-3501	Demolition TA2 (Prepation and Mobilization) - TA25-26	6	14-Dec-15	19-Dec-15	23-Dec-15	30-Dec-15	8		
-3502	Demolition TA2 (Removal of Bridge Deck) - TA25-26	8	21-Dec-15	30-Dec-15	31-Dec-15	09-Jan-16	8		
1-3503	Demolition TA2 (Removal of Pier 25&26)	3	31-Dec-15	04-Jan-16	11-Jan-16	13-Jan-16	8		
Tunnel App	proach Ramp		1			1			
.1 - Approacl	n Ramp (Excluding Portion IIB)								
ored Piles									
061-1120	Bored Piles Testing Approach Ramp (112 nos)	80	20-Oct-15	23-Jan-16	07-May-16	10-Aug-16	163		
61-3980	Pre Bored H-Pile > Pile Ramp - BN14 A	10	20-Oct-15	31-Oct-15	16-Mar-16	29-Mar-16	121		Pre Bored H-Pile > Pile Ramp - BN14 A
1-4000	Pre Bored H-Pile > Pile Ramp - BN14 B	14	26-Oct-15	10-Nov-15	21-Mar-16	08-Apr-16	121		Pre Bored H-Pile > Pile Ramp - BN14 B
1-4020	Pre Bored H-Pile > Pile Ramp - BN15 A	14	11-Nov-15	26-Nov-15	09-Apr-16	25-Apr-16	121		Pre Bored H-Pile > Pi
1-4040	Pre Bored H-Pile > Pile Ramp - BN15 B	14	16-Nov-15	01-Dec-15	14-Apr-16	29-Apr-16	121		Pre Bored H-P
1-4060	Pre Bored H-Pile > Pile Ramp - BN16 A	14	20-Nov-15	05-Dec-15	19-Apr-16	04-May-16	121		Pre Bore
1-4080	Pre Bored H-Pile > Pile Ramp - BN16 B	14	25-Nov-15	10-Dec-15	23-Apr-16	09-May-16	121		P
61-4100	Pre Bored H-Pile > Pile Ramp - BM07 A	14	30-Nov-15	15-Dec-15	28-Apr-16	13-May-16	121		
61-4120	Pre Bored H-Pile > Pile Ramp - BM07 B	14	04-Dec-15	19-Dec-15	03-May-16	18-May-16	121		
61-4140	Pre Bored H-Pile > Pile Ramp - BM08 A	14	09-Dec-15	24-Dec-15	07-May-16	23-May-16	121		
1-4160	Pre Bored H-Pile > Pile Ramp - BM08 B	14	14-Dec-15		12-May-16		121		
1-4180	Pre Bored H-Pile > Pile Ramp - BM06 A	14	18-Dec-15	05-Jan-16	17-May-16	01-Jun-16	121		
61-4200	Pre Bored H-Pile > Pile Ramp - BM06 B	14	23-Dec-15	09-Jan-16	21-May-16	06-Jun-16	121		
1-4220	Pre Bored H-Pile > Pile Ramp - BM05 A	14	29-Dec-15	14-Jan-16	26-May-16	11-Jun-16	121		
1-4240	Pre Bored H-Pile > Pile Ramp - BM05 B	14	04-Jan-16	19-Jan-16	31-May-16	16-Jun-16	121		
1-4260	Pre Bored H-Pile > Pile Ramp - BM04 A	14	08-Jan-16	23-Jan-16	04-Jun-16	21-Jun-16	121		
1-4280	Pre Bored H-Pile > Pile Ramp - BM04 B	14	13-Jan-16	28-Jan-16	10-Jun-16	25-Jun-16	121		
61-1200	Drive Sheet Pile for Trough A (excl IIB) - Appr. Ramp > Pier D10-D09 Northern Side	14	16-Nov-15	01-Dec-15	08-Apr-16	23-Apr-16	116		Drive Sheet Pi
61-1220	Drive Sheet Pile for Trough A (excl IIB) - Appr. Ramp > Pier D09-D08 Northern Side	14	02-Dec-15	17-Dec-15	15-Jun-16	30-Jun-16	159		
61-1240	Drive Sheet Pile for Trough A (excl IIB) - Appr. Ramp > Pier D08-D07 Northern Side	14	18-Dec-15	05-Jan-16	02-Jul-16	18-Jul-16	159		
61-1260	Drive Sheet Pile for Trough A (excl IIB) - Appr. Ramp > Pier D07 Cross Sectional Side	14	06-Jan-16	21-Jan-16	18-Jul-16	03-Aug-16	159		
1-1320	Drive Sheet Pile for Trough A (excl IIB) - Appr. Ramp > Pier D10-D09 Cross Sectional Side	14	16-Nov-15	01-Dec-15	28-May-16	14-Jun-16	159		Drive Sheet Pi
61-1340	Drive Sheet Pile for Trough A (excl IIB) - Appr. Ramp > Pier D10-D09 Southern Side	14	02-Dec-15	17-Dec-15	15-Jun-16	30-Jun-16	159		
61-1360	Drive Sheet Pile for Trough A (excl IIB) - Appr. Ramp > Pier D09-D08 Southern Side	14	18-Dec-15	05-Jan-16	02-Jul-16	18-Jul-16	159		
51-1380	Drive Sheet Pile for Trough A (excl IIB) - Appr. Ramp > Pier D08-D07 Southern Side	14	06-Jan-16	21-Jan-16	18-Jul-16	03-Aug-16	159		
61-1390	Install H-Pile King Post	14	16-Nov-15	01-Dec-15	08-Apr-16	23-Apr-16	116		Install H-Pile K
61-1400	Install & Operate Dewatering System (excl IIB) - Appr. Ramp > Pier D07-D08	7	02-Dec-15	09-Dec-15	25-Apr-16	02-May-16	116		
61-1420	Install & Operate Dewatering System (excl IIB) - Appr. Ramp > Pier D08-D09	7	10-Dec-15	17-Dec-15	03-May-16	10-May-16	116		
61-1440	Install & Operate Dewatering System (excl IIB) - Appr. Ramp > Pier D09-D10	7	18-Dec-15	26-Dec-15	11-May-16	18-May-16	116		
61-1460	Excavate Trough A (Level 1) > BN/BS18 - BN/BS25	17	15-Dec-15	05-Jan-16	07-May-16	26-May-16	116		
61-1470	Install Strut & Waling Supporty (First layer) > BN/BS18 - BN/BS25	18	06-Jan-16	26-Jan-16	27-May-16	17-Jun-16	116		
61-1530	Excavate Trough A (Level 1) > BN/BS25 - BN/BS30	17	06-Jan-16	25-Jan-16	25-Jun-16	15-Jul-16	140		
- Section X ·	Miscellaneous Works								

Critical Remaining Work

Three Months Rolling Programme (20 Oct 2015 to 19 Jan 2016)

			2016
December	- 20 1		January
13 Demoliti	20 20 TA2 (Pr	27 enatior	03 10 17 24 and Mobilization) - TA24-25
		•	TA2 (Removal of Bridge Deck) - TA24
			lition TA2 (Removal of Pier 24)
			(Prepation and Mobilization) - TA25-
	Demonat		Demolition TA2 (Removal of Bridge [
		·····	
			Demolition TA2 (Removal of F
			Во
Dilo Domo			
Pile Ramp -			
-Pile > Pile I			
red H-Pile >			
Pre Bored H	I-Pile > Pi	le Ram	p - BN16 B
Pre Pre	Bored H-P	ile > Pi	le Ramp - BM07 A
	Pre Bore	d H-Pil	e > Pile Ramp - BM07 B
			d H-Pile > Pile Ramp - BM08 A
			Pre Bored H-Pile > Pile Ramp - BM0
·····			
			Pre Bored H-Pile > Pile Ram
			Pre Bored H-Pile > Pile
			Pre Bored H-Pi
			Pre Bore
			Pr
			Appr. Ramp > Pier D10-D09 Northerr
D	rive Sheet	Pile fo	r Trough A (excl IIB) - Appr. Ramp >
			Drive Sheet Pile for Trough <i>i</i>
			Drive
Pile for Trou	gh A (exc	I IIB) - 7	Appr. Ramp > Pier D10-D09 Cross S
D	rive Sheet	Pile fo	r Trough A (excl IIB) - Appr. Ramp >
			Drive Sheet Pile for Trough /
			Drive
King Post			
nstall & Ope	rate Dewa	tering S	System (excl IIB) - Appr. Ramp > Pier
In	istall & Op	erate D	ewatering System (excl IIB) - Appr. F
		Install	& Operate Dewatering System (excl
			Excavate Trough A (Level 1)
	Dogo	12 of	13
	гаде	12 of	15

ivity ID	Activity Name			Late Finish	Total						015			
		Juratio	r I				Float	October	18 2	5 01	No 08	ovember	22	20 06
10.7.1 - TTM St	ages								18 2	5 01	00	15	22	29 00
1071-1240	TTM Stage 5 - TMLG Consultation and Endorsement	37	20-Oct-15	25-Nov-15	21-Oct-15	26-Nov-15	1						TT	M Stage 5 - TMLC
1071-1260	TTM Stage 5 - TTM Enabling Works	1	26-Nov-15	26-Nov-15	27-Nov-15	27-Nov-15	1						8 1	ITM Stage 5 - TTN
1071-1280	TTM Stage 5 - Hing Fat Slip Road Divert 1 Lane through 'Bridge From Pier E4 to Pier E2' to Release "TA2"	0		26-Nov-15		27-Nov-15	1						♦ 1	ITM Stage 5 - Hin
11 - SECTIO	N 11 OF THE WORKS													
11.2 - Roadwo	rks													
1110-2710	Watermains at Portion XIIA - Stage 3 (parking Meters)	0	20-Oct-15	20-Oct-15	16-Nov-15	16-Nov-15		- Stage 3	(parking Me	ters)				
1110-2720	Watermains at Portion XIIA - Stage 4 (parking Meters)	0	20-Oct-15	20-Oct-15	16-Nov-15	16-Nov-15		hains at F	ortion XIIA - S	Stage 4 (par	king Meters	;)		
1110-2730	Watermains at Portion XIIA - Stage 5 (parking Meters)	3	20-Oct-15	23-Oct-15	16-Nov-15	18-Nov-15	22		Wate	rmains at Po	ortion XIIA - S	Stage 5 (p	arking Me	ters)
1110-2740	Watermains at Portion XIIA - Stage 6 (King Ming Rd. junction)	0	20-Oct-15	20-Oct-15	17-Nov-15	17-Nov-15		ortion XII	A - Stage 6 (K	(ing Ming Ro	l. junction)			
1110-2750	Watermains at Portion XIIA - Stage 7 (King Ming Rd. junction & connection pt.)	0	20-Oct-15	20-Oct-15	17-Nov-15	17-Nov-15		🗖 Wate	ermains at Po	ortion XIIA - S	tage 7 (King	g Ming Rd	. junction &	& connection pt.)
1110-2760	Watermains at Portion XIIA - Stage 8 (Run-in/out to carpark at Victoria Ctr.)	2	22-Oct-15	23-Oct-15	17-Nov-15	18-Nov-15	22		🔲 Wate	rmains at Po	ortion XIIA - S	Stage 8 (F	Run-in/out 1	to carpark at Victo
1110-2770	Watermains at Portion XIIA - Stage 9 (Run-in/out to carpark at Victoria Ctr.)	13	24-Oct-15	07-Nov-15	19-Nov-15	03-Dec-15	22				Waterm	nains at Po	ortion XIIA	- Stage 9 (Run-in/
1110-2780	Watermains at Portion XIIA - Stage 10 (motor cycle parking)	13	24-Oct-15	07-Nov-15	19-Nov-15	03-Dec-15	22				Waterm	nains at Po	ortion XIIA	- Stage 10 (motor
1110-2790	Watermains at Portion XIIA - Stage 11 (motor cycle parking)	12	09-Nov-15	21-Nov-15	04-Dec-15	17-Dec-15	22] Waterm	ains at Portion XII
1110-2800	Watermains at Portion XIIA - Testing & commissioning of Watermains	4	23-Nov-15	26-Nov-15	18-Dec-15	22-Dec-15	22							Natermains at Por
1110-2810	Watermains at Portion XIIA - Reinstatement of Pavement at connection Pt.	4	27-Nov-15	01-Dec-15	23-Dec-15	28-Dec-15	22							Watermain

Remaining Level of Effort Milestone		
Actual Level of Effort	Contract UV/2000/40	
Actual Work	Contract HY/2009/19	
Remaining Work	Three Months Rolling Programme (20 Oct 2015 to 19 Jan 2016)	
Critical Remaining Work		

					2016			
Decembe		_			January			
13	20	27		03	10	17	24	
Consultati								
Consultati	on and En	aorsem	ent					
Enabling Works								
Fat Slip Re	oad Divert	1 Lane	thre	ough 'Brid	ge From F	Pier E4 to	Pier	
ia Ctr.)								
out to carpa	rk at Victor							
vcle parkin	a)							
· ·								
A - Stage 11	(motor cyc	cle park	ing)				
ion XIIA - Te	seting & co	mmissi	oni	na of Wate	rmaine			
			Jun	ng ur wate	annanna			
at Portion	XIIA - Rein	stateme	ento	of Paveme	ent at conr	nection Pt.		

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/ ID	Activity Name	Jural		arly Start	Early Finish	Late Start	Late Finish	Total Float	2016 February March 7 24 31 07 14 21 28 06 13
MRP - Jan	2015 to Apr 2016								7 24 31 07 14 21 28 06 13
	NSTRUCTION WORKS				<u> </u>	<u>.</u>	<u></u>		
	Statement / Shop Drawings								
0230-1380	MS Landscape Deck Structure - Submission	21	1 20)-Jan-16	09-Feb-16	24-May-17	' 13-Jun-17	490	MS Landscape Deck Structure - Submission
230-1390	MS Landscape Deck Structure - ER Review & Comment	28	3 10)-Feb-16	08-Mar-16	14-Jun-17	11-Jul-17	490	MS Landsca
230-1400	MS Landscape Deck Structure - Resubmission	28	8 09	9-Mar-16	05-Apr-16	12-Jul-17	08-Aug-17	490	
30-1410	MS Landscape Deck Structure - ER Approval	28	8 06	8-Apr-16	03-May-16	09-Aug-17	05-Sep-17	490	
30-1611	MS Noise Semi Enclosure - Submission	0	20)-Jan-16	20-Jan-16	05-Feb-16	05-Feb-16		oise Semi Enclosure - Submission
30-1612	MS Noise Semi Enclosure - ER Review / Comment	5	5 20)-Jan-16	24-Jan-16	05-Feb-16	09-Feb-16	16	MS Noise Semi Enclosure - ER Review / Comment
30-1613	MS Noise Semi Enclosure - Resubmission	10	0 25	5-Jan-16	03-Feb-16	10-Feb-16	19-Feb-16	16	MS Noise Semi Enclosure - Resubmission
30-1614	MS Noise Semi Enclosure - No Adverse Comment	10					29-Feb-16		MS Noise Semi Enclosure - No Adverse Cor
30-1690	MS Approach Ramp - ER Approval	13	3 20)-Jan-16	01-Feb-16	12-May-16	6 24-May-16	113	MS Approach Ramp - ER Approval
30-2340	MS for Connection of EVB and EVA - ER Review & Comment	0	20)-Jan-16	20-Jan-16	29-Jan-16	29-Jan-16		d EVA - ER Review & Comment
0-2350	MS for Connection of EVB and EVA - Resubmission	0	20)-Jan-16	20-Jan-16	29-Jan-16	29-Jan-16		B and EVA - Resubmission
0-2360	MS for Connection of EVB and EVA - ER No Adverse Comment	6	5 20)-Jan-16	25-Jan-16	29-Jan-16	04-Feb-16	10	MS for Connection of EVB and EVA - ER No Adverse Comment
0-2370	MS for erection of Beams at Pier 17-21 - Submission	0	20)-Jan-16	20-Jan-16	20-Feb-16	20-Feb-16		ction of Beams at Pier 17-21 - Submission
0-2380	MS for erection of Beams at Pier 17-21 - ER Review / Comment	14	4 20)-Jan-16	02-Feb-16	20-Feb-16	04-Mar-16	31	MS for erection of Beams at Pier 17-21 - ER Review / Comr
0-2390	MS for erection of Beams at Pier 17-21 - Resubmission	28	8 03	3-Feb-16	01-Mar-16	05-Mar-16	01-Apr-16	31	MS for erection of Bea
0-2391	MS for erection of Beams at Pier 17-21 - No Adverse Comment	28	8 02	2-Mar-16	29-Mar-16	02-Apr-16	29-Apr-16	31	
0-2440	MS for trial erection of green roof - Submission	8	20)-Jan-16	27-Jan-16	20-Mar-16	27-Mar-16	61	MS for trial erection of green roof - Submission
0-2450	MS for for trial erection of green roof - ER Review / Comment	15	5 27	7-Jan-16	11-Feb-16	28-Mar-16	11-Apr-16	61	MS for for trial erection of green roof - ER Revie
10-2460	MS for for trial erection of green roof - Resubmission	15	5 11	-Feb-16	26-Feb-16	12-Apr-16	26-Apr-16	61	MS for for trial erection of a
0-2470	MS for for trial erection of green roof - No Adverse Comment	15	5 26	6-Feb-16	12-Mar-16	27-Apr-16	11-May-16	61	MS for MS for MS for
0-2482	MS for Erection of LG-B at Pier 29 & 30 - Resubmission	0	20)-Jan-16	20-Jan-16	28-Jan-16	28-Jan-16		& 30 - Resubmission
)-2487	MS for Erection of LG-B at Pier 29 & 30 - No Adverse Comment	2	20)-Jan-16	21-Jan-16	28-Jan-16	29-Jan-16	8	MS for Erection of LG-B at Pier 29 & 30 - No Adverse Comment
Contract	or's Design and Build Items								
0-1180	HGHK Permanent Carpark Design - ER/HGHK Review and Con	nment 0	20)-Jan-16	20-Jan-16	04-Mar-16	04-Mar-16		ark Design - ER/HGHK Review and Comment
-1190	HGHK Permanent Carpark Design - Resubmission	0	20)-Jan-16	20-Jan-16	04-Mar-16	04-Mar-16		K Permanent Carpark Design - Resubmission
1200	HGHK Permanent Carpark Design - ER/HGHK Approval	60	0 20)-Jan-16	19-Mar-16	04-Mar-16	02-May-16	44	
-1270	Landscaping Design - Submission	28	8 20)-Jan-16	16-Feb-16	17-Oct-17	13-Nov-17	636	Landscaping Design - Submission
0-1280	Landscaping Design - ER Review/Resubmission	28	8 17	7-Feb-16	15-Mar-16	14-Nov-17	11-Dec-17	636	La
0-1290	Landscaping Design - ER Approval	28	3 16	6-Mar-16	12-Apr-16	12-Dec-17	08-Jan-18	636	
40-1630	Green Wall Minimum 2 years Establishment						10-Jul-18		
- Bridge S	egment/Beam Off-site Precasting								
0-3860	Bridge F1B2 - Abut D12 Segment - 6 nos. (S2)	19	9 20)-Jan-16	13-Feb-16	11-Nov-16	02-Dec-16	243	Bridge F1B2 - Abut D12 Segment - 6 nos. (S
0-3880	Bridge F1B2 - Pier F1B2 Segment - 13 nos. (S1)	40	20)-Jan-16	09-Mar-16	29-Dec-16	15-Feb-17	284	Bridge F1B
-3900	Bridge F1B2 - Pier F2B2 Segment - 11 nos. (S1)	28	3 17	7-Mar-16	21-Apr-16	23-Feb-17	27-Mar-17	284	
-3920	Bridge F1B2 - Pier F3B2 Segment - 6 nos. (S2)	19	9 22	2-Feb-16	14-Mar-16	10-Dec-16	31-Dec-16	243	Brid
-3940	Bridge F2B - Pier F3B2 Segment - 5 nos. (S2)	16	6 22	2-Mar-16	12-Apr-16	09-Jan-17	26-Jan-17	243	
- Fabricat	ion & Delivery of Noise Enclosure								
60-5000	Int. Noise Enclosure Main + Sub Frames Fab / Del	10	0 20)-Jan-16	30-Jan-16	18-Feb-16	29-Feb-16	22	Int. Noise Enclosure Main + Sub Frames Fab / Del
0-5010	Int. Noise Enclosure Noise Panel Fab / Del	10	0 20)-Jan-16	30-Jan-16	18-Feb-16	29-Feb-16	22	Int. Noise Enclosure Noise Panel Fab / Del
SECTIO	N 2 & 2A OF THE WORKS								
	over Tunnel Ch 4855-4932 (APS Footprint)								
	b-structure & Tunnel Connection to EVA (C19) - Install Pipe Pile (45nos)	9	20)- lan-16	29- Jan-16	20- lan-16	29-Jan-16	0	Connection to EVA (C19) - Install Pipe Pile (45nos)
		9							
	Connection to EVA (C19) - Place sand in the pipe pile						30-Jan-16 03-Feb-16		Connection to EVA (C19) - Place sand in the pipe pile Connection to EVA (C19) - Extract the pipe pile
	Connection to EVA (C19) - Extract the pipe pile	3							
051-3590	Connection to EVA (C19) - Install sheet pile in pipe pile	2	03	o-⊢eD-16	U⊃-F6D-16	U3-Feb-16	05-Feb-16	0	Connection to EVA (C19) - Install sheet pile in pipe pile
	ning Level of Effort 🔶 🔶 Milestone								
Actual	Level of Effort			<i>(</i>	ontro		2009/1	0	
Actual	Work		_						
🔲 Remai	ning Work	Three Months R	2711	lina F	Prodra	mme	(20 .la	n 20)15 to 19 Apr 2016)

h				Apr	il		May
	20	27	03	10	17	24	01
cap	De Deck S	Structure -	ER Revi	ew & Con	iment		
			MS	Landsca	be Deck S	tructure -	Resu
om	ment						
nm	ent						
ear	ms at Pier	17-21 - F	Resubmis	sion			
		MS	for erecti	on of Bea	ms at Pier	17-21 - N	lo Adv
viev	v / Comm	ent					
gre	en roof -	Resubmi	ssion				
or fo	or trial ere	ction of g	reen roof	- No Adv	erse Com	ment	
	HGHK F	Permanen	t Carpar	k Design -	ER/HGH	K Approva	al
		Design -					
				🔲 Lar	dscaping	Design -	ERA
S2							
1B2	2 - Pier F1	B2 Segm	ent - 13 i				
						Bridge F1E	32 - Pi
idg		Pier F3B2					
				Bric	lge F2B -	Pier F3B2	Segr
0							
е							

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	Activity Name	emaini Juratio		Early Finish	Late Start	Late Finish	Total Float	2016 February Mar 7 24 31 07 14 21 28 06 11
51-3600	Connection to EVA (C19) - Install grout tube	6	05-Feb-16	16-Feb-16	05-Feb-16	16-Feb-16	0	7 24 31 07 14 21 28 06 15 Connection to EVA (C19) - Install grou
51-3603	Connection to EVA (C19) - Grouting	3	16-Feb-16	19-Feb-16	16-Feb-16	19-Feb-16	0	Connection to EVA (C19) - Grouti
1-3605	Connection to EVA (C19) - Excavate the rock fill	3	30-Jan-16	03-Feb-16	06-Feb-16	13-Feb-16	6	Connection to EVA (C19) - Excavate the rock fill
-3606	Connection to EVA (C19) - Place mass concrete block	5	03-Feb-16	12-Feb-16	13-Feb-16	19-Feb-16	6	Connection to EVA (C19) - Place mass con
-3611	Connection to EVA (C19) - Erection of working platform	1	19-Feb-16	20-Feb-16	19-Feb-16	20-Feb-16	0	Connection to EVA (C19) - Erec
-3621	Connection to EVA (C19) - Drill dewatering hole at area A and B	1	20-Feb-16	22-Feb-16	20-Feb-16	22-Feb-16	0	Connection to EVA (C19) - Dr
1-3631	Connection to EVA (C19) - Drill 3 holes at top of each area and investigate	1	20-Feb-16	22-Feb-16	20-Feb-16	22-Feb-16	0	Connection to EVA (C19) - Dr
1-3641	Connection to EVA (C19) - Drill 3 holes at middle of each area and investigate	1	20-Feb-16	22-Feb-16	20-Feb-16	22-Feb-16	0	Connection to EVA (C19) - Dr
1-3651	Connection to EVA (C19) - Drill 3 holes at bottom of each area and investigate	1	20-Feb-16	22-Feb-16	20-Feb-16	22-Feb-16	0	Connection to EVA (C19) - D
1-3661	Connection to EVA (C19) - Core hole for saw cut	3	22-Feb-16	25-Feb-16	22-Feb-16	25-Feb-16	0	Connection to EVA (C19
1-3671	Connection to EVA (C19) - Saw cut the bulkhead wall	5	25-Feb-16	02-Mar-16	25-Feb-16	02-Mar-16	0	Connection to E
1-3681	Connection to EVA (C19) - Remove the broken concrete	1	02-Mar-16	03-Mar-16	02-Mar-16	03-Mar-16	0	Connection to E
-3691	Connection to EVA (C19) - Re-bar fixing	2	03-Mar-16	05-Mar-16	03-Mar-16	05-Mar-16	0	Connection t
-3701	Connection to EVA (C19) - Erection of formwork	2	05-Mar-16	08-Mar-16	05-Mar-16	08-Mar-16	0	Connect
-3711	Connection to EVA (C19) - Concreting	1		09-Mar-16			0	
-3721	Connection to EVA (C19) - Removal of formwork	1				10-Mar-16	0	
-3731	Connection to EVA (C19) - Erection of falsework	2		12-Mar-16			0	🗖 Co
-3741	Connection to EVA (C19) - Rebar fixing	2				15-Mar-16	0	
1-3751	Connection to EVA (C19) - Erection of formwork	2		17-Mar-16			0	
1-3761	Connection to EVA (C19) - Concreting	1				18-Mar-16		
-3771	Connection to EVA (C19) - Removal of formwork	1		19-Mar-16			0	
-3781	Connection to EVA (C19) - Erection of falsework	2				22-Mar-16	0	
-3791	Connection to EVA (C19) - Erection of soffit	2		22-Mar-16			0	
1-3801	Connection to EVA (C19) - Rebar fixing	2		29-Mar-16			0	
-3811	Connection to EVA (C19) - Freedom King	2				31-Mar-16	0	
1-3821	Connection to EVA (C19) - Concreting			01-Apr-16			0	
-3831	Connection to EVA (C19) - Concreating	1		02-Apr-16		· ·	0	
-3832	Complete EVB Outstanding Works (Final)	0	01-Api-10	· ·	01-Api-10	· ·	0	
			20. Jan 16	02-Apr-16	21 Mar 16	02-Apr-16		Removal of TA2 (Pier 21-23) -Deck Removal - (TA21-TA22)
0-1200	Removal of TA2 (Pier 21-23) -Deck Removal - (TA21-TA22)	0		20-Jan-16				Removal of TA2 (Pier 21-23) -Deck Removal - (TA21-TA22)
0-1210	Removal of TA2 (Pier 21-23) -Tower Removal - (TA21)	1				01-Apr-16	57	Removal of TA2 (Pier 21-23) - Tower Removal - (TA21)
	Removal of TA2 (Pier 21-23) -Tower Removal - (TA22)	1			· · ·	02-Apr-16		
0-1230	Reinstatement of Slab @ TA24	6		26-Jan-16			9	Reinstatement of Slab @ TA24
-1240	Reinstatement of Slab @ TA23	9		29-Jan-16			6	Reinstatement of Slab @ TA23
0-1250	Reinstatement of Slab @ TA25	7		27-Jan-16			8	Reinstatement of Slab @ TA25 Reinstatement of Slab @ TA26
0-1260	Reinstatement of Slab @ TA26	7		27-Jan-16			8	_
0-1270	Reinstatement of Slab @ TA27	7		27-Jan-16			8	Reinstatement of Slab @ TA27
80-1290	EVB Works - Slab at +0.75Mpd - (G.L 5.5-6/C-E) (Part 2)	0		20-Jan-16				Works - Slab at +0.75Mpd - (G.L 5.5-6/C-E) (Part 2)
80-1320	EVB Works - Slab at +3.4Mpd - (G.L 1-3/C-E) (Part 5)	4	20-Jan-16	23-Jan-16	02-Feb-16	05-Feb-16	11	EVB Works - Slab at +3.4Mpd - (G.L 1-3/C-E) (Part 5)
30-1330	EVB Works - Walls at +0.0Mpd - (G.L 4-5/A-B) (Part 6)	0	20-Jan-16	20-Jan-16	21-Jan-16	21-Jan-16		Walls at +0.0Mpd - (G.L 4-5/A-B) (Part 6)
30-1350	EVB Works - Slab & Wall at +4.2Mpd - (G.L 5-6/A-E) (Part 8)	4	20-Jan-16	23-Jan-16	02-Feb-16	05-Feb-16	11	EVB Works - Slab & Wall at +4.2Mpd - (G.L 5-6/A-E) (Part 8)
0-1370	EVB Works - In-Situ Watertank - Upper Part (Part 10)	0	20-Jan-16	20-Jan-16	21-Jan-16	21-Jan-16		In-Situ Watertank - Upper Part (Part 10)
30-1380	EVB Works - Slab at +3.4Mpd - (G.L 1-3/A-C) (Part 11)	4	20-Jan-16	23-Jan-16	02-Feb-16	05-Feb-16	11	EVB Works - Slab at +3.4Mpd - (G.L 1-3/A-C) (Part 11)
80-1390	EVB Works - Slab at -2.8Mpd - (G.L 6-7/A) (Part 12)	0	20-Jan-16	20-Jan-16	13-Nov-19	13-Nov-19		s - Slab at -2.8Mpd - (G.L 6-7/A) (Part 12)
80-1400	EVB Works - Walls at +00Mp d - (G.L 4-6/L-N) (Part 13)	0	23-Jan-16	23-Jan-16	13-Nov-19	13-Nov-19		VB Works - Walls at +00Mp d - (G.L 4-6/L-N) (Part 13)
80-1410	EVB Works - Pre - Cast Watertank - Upper Part (Part 14)	0	20-Jan-16	20-Jan-16	21-Jan-16	21-Jan-16		Pre - Cast Watertank - Upper Part (Part 14)
80-1420	EVB Works - Slab at +2.4Mpd - (G.L 4-6/A-C) (Part 15)	14	20-Jan-16	04-Feb-16	27-Jan-16	15-Feb-16	6	EVB Works - Slab at +2.4Mpd - (G.L 4-6/A-C) (Part 1
80-1451	D-Wall Weak Seam rectification works	0	20-Jan-16	20-Jan-16	19-Jan-16	19-Jan-16	0	D-Wall Weak Seam rectification works

Remaining Level of Effort 🔶	 Milest
Actual Level of Effort	
Actual Work	
Remaining Work	
Critical Remaining Work	

Contract HY/2009/19 Three Months Rolling Programme (20 Jan 2015 to 19 Apr 2016)

				Ар	ril		May
	20	27	03	10	17	24	01
tube							
g							
rete blo	ock						
on of w	orking	platform					
Idewa	tering	hole at a	rea A an	d B			
l 3 hole	es at to	op of each	n area ar	nd investig	jate		
				a and inve			
l 3 hole	es at b	ottom of e	each are	a and inve	estigate		
		r saw cut					
		cut the b		wall			
		move the					
		Re-bar fi					
		9) - Erect		rmwork			
		19) - Cor					
				f formwor			
nection	to EV	A (C19) -	Erection	of falsew	ork		
Connec	tion to	EVA (C1	9) - Reb	ar fixing			
Conr	nectio	n to EVA (C19) - E	rection of	formwor	k	
Cor	nnectio	on to EVA	(C19) -	Concretin	g		
Co	onnec	tion to EV	/A (C19)	- Remova	l of form	vork	
	Con	nection t	o EVA (C	(19) - Erec	tion of fa	lsework	
				(C19) - E			
				to EVA (C			
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			Compl	ete EVB C	Dutstandi	ng Works	(Final
			Compl	ete EVB C	Dutstandi	ng Works	(Final
			Compl	ete EVB C	Dutstandi	ng Works	(Final
			Compl	ete EVB C	Dutstandi	ng Works	(Final)
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			Compl	ete EVB C	Dutstandi	ng Works	(Final
			Compl	ete EVB C	Dutstandi	ng Works	(Final

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Activity ID	Activity Name		emainir Juratio	Early Start	Early Finish	Late Start	Late Finish	Total Float	2016 February March
1000 4550					00 1	00 100 40	00 100 10		7 24 31 07 14 21 28 06 13
1080-1550	EVB Works(Zone 4-5) - Wall (W48/W57/W60/W61) - (G.L 4-6/K-N)			20-Jan-16					VB Works(Zone 4-5) - Wall (W48/W57/W60/W61) - (G.L 4-6/K-N) EVB Works(Zone 4-5) - Falseworks/Formworks EVB Roof Slab G.L 4-6/K-
1080-1560	EVB Works(Zone 4-5) - Falseworks/Formworks EVB Roof Slab G.L 4-6		4			20-Jan-16		0	I
1080-1570	EVB Works(Zone 4-5) - Rebar Fix + Concreting of EVB Roof Slab G.L	. 4-6/K-N - (Part 16)		21-Jan-16				0	EVB Works(Zone 4-5) - Rebar Fix + Concreting of EVB
1080-1571	Complete EVB Works before CNY		0		05-Feb-16		05-Feb-16	0	Complete EVB Works before CNY
1080-1580	EVB Works(Zone 4-5) - Water Test for 2nos. Watertank		0			21-Jan-16			VB Works(Zone 4-5) - Water Test for 2nos. Watertank
1080-1590	EVB Works(Zone 4-5) - Erection of 400T Crane for Pre-Cast Watertan	k fixing	1			23-Jan-16		1	EVB Works(Zone 4-5) - Erection of 400T Crane for Pre-Cast Watertank fixin
1080-1600	EVB Works(Zone 4-5) - Pre-Cast Watertank - Preparation and Fixing		3			21-Jan-16		1	EVB Works(Zone 4-5) - Pre-Cast Watertank - Preparation and Fixing
1080-1610	EVB Works(Zone 4-5) - Wall (W58/W59/W49) - G.L 4-5/K-N		3			21-Jan-16		1	EVB Works(Zone 4-5) - Wall (W58/W59/W49) - G.L 4-5/K-N
1080-1620	EVB Works(Zone 4-5) - Construction of Stair 03 - G.L 6/M-N		5				05-Feb-16	10	EVB Works(Zone 4-5) - Construction of Stair 03 - G.L 6/M-N
1080-1630	EVB Works(Zone 4-5) - Demolition of D-Wall > South - (Zone 4A-5A)		4				18-Mar-16	25	EVB Works(Zone 4-5) - Demolition of
1080-1640	EVB Works(Zone 4-5) - CJ Preparation for South Wall along D-Wall -	· · · ·	3				23-Mar-16	25	EVB Works(Zone 4-5) - CJ Prep
1080-1650	EVB Works(Zone 4-5) - Construction of South Wall along D-Wall + Sti	tiching to Roof Slab - (Zone 4A-5A)					31-Mar-16	25	EVB Works(Zone 4-5) -
1080-1660	EVB Works(Zone 4-5) - Clearing & Demobilazation of EVB		2	01-Mar-16	02-Mar-16	31-Mar-16	02-Apr-16	25	EVB Works(Zone 4-5
1080-1670	EVB Works(Zone 2) - Demolition of D-Wall > North		0	20-Jan-16	20-Jan-16	20-Jan-16	20-Jan-16		VB Works(Zone 2) - Demolition of D-Wall > North
1080-1680	EVB Works(Zone 2) - CJ Preparation for North Wall along D-Wall		7	20-Jan-16	27-Jan-16	20-Jan-16	27-Jan-16	0	EVB Works(Zone 2) - CJ Preparation for North Wall along D-Wall
1080-1690	EVB Works(Zone 2) - Construction of North Wall along D-Wall + Stitic	hing to Roof Slab	8	28-Jan-16	05-Feb-16	28-Jan-16	05-Feb-16	0	EVB Works(Zone 2) - Construction of North Wall along I
1080-1700	EVB Works(Zone 2) - Removal of Remaining Strut G.L > 6-7/A-B		0	20-Jan-16	20-Jan-16	20-Jan-16	20-Jan-16		Works(Zone 2) - Removal of Remaining Strut G.L > 6-7/A-B
1080-1710	EVB Works(Zone 2) -Construction Wall and Stair G.L > 6-7/A-B		15	20-Jan-16	05-Feb-16	20-Jan-16	05-Feb-16	0	EVB Works(Zone 2) -Construction Wall and Stair G.L > 6
1080-1720	EVB Works(Zone 2) -Demolition of South D-Wall		5	13-Feb-16	18-Feb-16	12-Mar-16	18-Mar-16	25	EVB Works(Zone 2) -Demolition of So
1080-1730	EVB Works(Zone 2) -Construction of North Wall along D-Wall + Stitich	ning to Roof Slab	9	19-Feb-16	29-Feb-16	18-Mar-16	31-Mar-16	25	EVB Works(Zone 2) -Co
06 - SECTIO	N 3 OF THE WORKS								
	und - Pier 29-34								
0610-1880	W/B Bridge Pier 34 - Tie Beam > Breaking + Excav + Blinding		8	20-Jan-16	28-Jan-16	20-Jan-16	28-Jan-16	0	W/B Bridge Pier 34 - Tie Beam > Breaking + Excav + Blinding
0610-1900	Construct W/B Bridge Pier 34 - Tie Beam > CJ + post drill rebar & Cor	nstruction	14	20-Jan-16	04-Feb-16	05-Mar-16	21-Mar-16	36	Construct W/B Bridge Pier 34 - Tie Beam > CJ + post dril
0610-1940	Construct W/B Bridge Pier 34 Construct Crosshead		0	20-Jan-16	20-Jan-16	28-Jan-16	28-Jan-16		tructCrosshead
0610-1960	Construct W/B Bridge Pier 34 - Install Bearing + Pier Segment		0	20-Jan-16	20-Jan-16	28-Jan-16	28-Jan-16		W/B Bridge Pier 34 - Install Bearing + Pier Segment
06.3 - Admin B			1	00 Mar 40	00 Mar 10	00 Mar 10	00 Mar 40	0	
0630-1880	Grd. Beam - (GL > P-R) - Removal of Existing Sheet Piles	0	4				26-Mar-16	0	
0630-1900	Grd. Beam - (GL > P-R) - Excavate to formation level + Blinding Layer	Casting	5		•	29-Mar-16	· ·	0	
0630-1920	Grd. Beam - (GL > P-R) - Install Capping Plate		6	· ·	•	02-Apr-16	· ·	0	
0630-1940	Grd. Beam - (GL > P-R) - Rebar Fixing for Beam		7	· ·	•	07-Apr-16	· ·	0	
0630-1960	Grd. Beam - (GL > P-R) - Erect Formworks for Beam		4				19-Apr-16		
0630-1980	Grd. Beam - (GL > P-R) - Cast Concrete for Beam		1				20-Apr-16	0	
0630-2000	Grd. Beam - (GL > P-R) - Formworks Removal		1	· ·		21-Apr-16	· ·	0	
0630-2036	ADB(Pier29-30) - West Basement (GL > 1-2.0/C-F) - 1st Layer Excav		3				19-Feb-16		ADB(Pier29-30) - West Basement (GL > 1-2.0/C-F) - 1st Layer Excav Approximation (GL
0630-2037	ADB(Pier29-30) - West Basement (GL > 1-2.0/C-F) - Install Strut and	Waling Support	4				24-Feb-16	21	ADB(Pier29-30) - West Basement (GL > 1-2.0/C-F) - Install Strut and
0630-2038	ADB(Pier29-30) - West Basement (GL > 1-2.0/C-F) - 2nd Layer Excav		3				27-Feb-16	21	ADB(Pier29-30) - West Basement (GL > 1-2.0/C-F) - 2nd Layer I
0630-2040	ADB(Pier29-30) - West Basement (GL > 1-2.0/C-F) - Prepare CJ + Inst	tall Capping Plate	3	01-Feb-16	03-Feb-16	29-Feb-16	02-Mar-16	21	ADB(Pier29-30) - West Basement (GL > 1-2.0/C-F) - Prepa
0630-2080	ADB(Pier29-30) - West Basement (GL > 1-2.0/C-F) - Rebar Fixing for	Ground Beam	5	02-Feb-16	06-Feb-16	01-Mar-16	05-Mar-16	21	ADB(Pier29-30) - West Basement (GL > 1-2.0/C-F) - F
0630-2100	ADB(Pier29-30) - West Basement (GL > 1-2.0/C-F) - Erect Formworks	s for Ground Beam	4	11-Feb-16	15-Feb-16	07-Mar-16	10-Mar-16	21	ADB(Pier29-30) - West Basement (GL > 1-
0630-2120	ADB(Pier29-30) - West Basement (GL > 1-2.0/C-F) - Cast Concrete for	or Ground Beam	1	16-Feb-16	16-Feb-16	11-Mar-16	11-Mar-16	21	ADB(Pier29-30) - West Basement (GL > 1
0630-2140	ADB(Pier29-30) - West Basement (GL > 1-2.0/C-F) - Formworks Rem	oval	2	17-Feb-16	18-Feb-16	12-Mar-16	14-Mar-16	21	ADB(Pier29-30) - West Basement (GL
0630-2140.1	Complete ADB Ground Beam (Portion VB & VD)		0		18-Feb-16		21-Apr-16	51	 Complete ADB Ground Beam (Portion
0630-2355	Underground drainage (Pier 29) - Forwork Erection (for Manhole)		3	20-Jan-16	22-Jan-16	16-Apr-16	19-Apr-16	69	Underground drainage (Pier 29) - Forwork Erection (for Manhole)
0630-2357	Underground drainage (Pier 29) - Concreting (for Manhole)		1	23-Jan-16	23-Jan-16	20-Apr-16	20-Apr-16	69	Underground drainage (Pier 29) - Concreting (for Manhole)
0630-2359	Underground drainage (Pier 29) - Formwork Removal		1	25-Jan-16	25-Jan-16	21-Apr-16	21-Apr-16	69	Underground drainage (Pier 29) - Formwork Removal
0630-2361	Underground drainage (Pier 29) - Blinding Layer Casting (for Catchpi	t)	1	20-Jan-16	20-Jan-16	08-Apr-16	08-Apr-16	62	Underground drainage (Pier 29) - Blinding Layer Casting (for Catchpit)
0630-2363	Underground drainage (Pier 29) - Forwork Erection (for Catchpit)		1	21-Jan-16	21-Jan-16	09-Apr-16	09-Apr-16	62	Underground drainage (Pier 29) - Forwork Erection (for Catchpit)
- Domo	ining Level of Effort Milestone					-!			
	Level of Effort								
	Work			(Contra	ct HY/	2009/1	9	
	ining Work	Three Month	c P/	olling I	Droara	mmo	(20 la	n 20	015 to 19 Apr 2016)
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h		07		Apri		0.4	May
	20	27	03	10	17	24	01
/K-I							
′Β F	Roof Slab	G.L 4-6/K	(-N - (Par	t 16)			
xin	a						
	9						
			one 4A-5A				
rep	aration fo	r South W	/all along uth Wall a	D-Wall -	(Zone 4A	-5A)	
9) - 4-5) - Clearir	na & Dem	obilazatio	n of EVB	all + Suuc		<001 SI
g D	-Wall + S	titiching to	o Roof Sla	ab			
	-7/A-B						
	ith D-Wal		Wall alon	a D-Wall	+ Stitichin	a to Roc	of Slah
-00		TOTNOTUT		iy D-wall	- Suuchii		
Irill	rebar & C	Constructio	on 				
			am - (GL ፡				
			Grd. Be		> P-R) - E: am - (GL >		
					Grd. Beam		
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	x. +2.5mF Waling S						
and ar F	volution Stream	around Be	am Forma	ation level	+ blindin	a	
pai	re CJ + In	stall Capp	oing Plate				
R	ebar Fixin	ng for Gro	und Beam	 ۱			
			rmworks f				
			oncrete fo		Beam		
		-	nworks Re				
on '	VB & VD)						

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ty ID	Activity Name	emain Juratio	ir Early Start	Early Finish	Late Start	Late Finish	Total Float	2016 February March
					44.4.40	11.1.10		7 24 31 07 14 21 28 06 13
0630-2365	Underground drainage (Pier 29) - Concreting (for Catchpit)	1		22-Jan-16	· ·	· ·	62	Underground drainage (Pier 29) - Concreting (for Catchpit)
0630-2367	Underground drainage (Pier 29) - Formwork Removal	1		23-Jan-16			62	Underground drainage (Pier 29) - Formwork Removal
0630-2369	Underground drainage (Pier 29) - Excavation	1		25-Jan-16	· ·	· ·	62	Underground drainage (Pier 29) - Excavation
0630-2371	Underground drainage (Pier 29) - Bedding	2		27-Jan-16	· ·	· ·	62	Underground drainage (Pier 29) - Bedding
0630-2373	Underground drainage (Pier 29) - Connection of Concrete Pipe	2		29-Jan-16	· ·		62	Underground drainage (Pier 29) - Connection of Concrete Pipe
0630-2375	Underground drainage (Pier 29) - Backfill	3		02-Feb-16			62	Underground drainage (Pier 29) - Backfill
0650 -1000	Construct Road Pavement Between P31-32 within Porion VB incl sub-base	/		27-Jan-16	· ·	· ·	67	Construct Road Pavement Between P31-32 within Porion VB incl s
0650 -1110	Modify Temporary Support of Pier obstructing construction of ADB along Portion VB	15		05-Feb-16		· ·	59	Modify Temporary Support of Pier obstructing construction Reconstruction of Spec
0650 -1111 Admin Buildin	Reconstruction of Special Hoarding after segment erection @ D12	12	10-FeD-16	29-Feb-16	08-Mar-16	21-Mar-16	18	
630-3090	ADB(Pier29-30) West Basement (GL > 3-6/C-F) - 1st Layer Excav Approx. +2.5mPD	7	20-Jan-16	27-Jan-16	20-Jan-16	27-Jan-16	0	ADB(Pier29-30) West Basement (GL > 3-6/C-F) - 1st Layer Excav A
630-3091	ADB(Pier29-30) West Basement (GL > 3-6/C-F) - Install Strut and Waling Support	9	28-Jan-16	06-Feb-16	28-Jan-16	06-Feb-16	0	ADB(Pier29-30) West Basement (GL > 3-6/C-F) - Inst
630-3092	ADB(Pier29-30) West Basement (GL > 3-6/C-F) - 2nd Layer Excav to Ground Beam Formation level + b	in: 13	15-Feb-16	29-Feb-16	15-Feb-16	29-Feb-16	0	ADD/Diar20.20\W/aat
630-3110	ADB(Pier29-30) West Basement (GL > 3-6/C-F) - Install Pipe Pile wall - Sumpit Area	7	01-Mar-16	08-Mar-16	01-Mar-16	08-Mar-16	0	ADB(Pier29-30) West
630-3115	ADB(Pier29-30) West Basement (GL > 3-6/C-F) - Chemical Grouting to Pipe Pile Wall - Sumpit Area	5	05-Mar-16	10-Mar-16	05-Mar-16	10-Mar-16	0	ADB(Pie
630-3116	ADB(Pier29-30) West Basement (GL > 3-6/C-F) - Excav to -1.0mPD - Sumpit Area	3	08-Mar-16	10-Mar-16	08-Mar-16	10-Mar-16	0	ADB(Pier
630-3120	ADB(Pier29-30) West Basement (GL > 3-6/C-F) - Install Strut and Waling Support	3	11-Mar-16	14-Mar-16	11-Mar-16	14-Mar-16	0	ADI
630-3220	ADB(Pier29-30) West Basement (GL > 3-6/C-F) - Excav to Formation level - (Sump Pits)	5	15-Mar-16	19-Mar-16	15-Mar-16	19-Mar-16	0	——————————————————————————————————————
630-3340	ADB (Pier29-30)West Basement (GL > 3-6/C-F) - Cast Blinding to Sump Pits	1	21-Mar-16	21-Mar-16	21-Mar-16	21-Mar-16	0	
630-3360	ADB(Pier29-30) Basement Complete Add'I Excavation & Blinding	0		21-Mar-16	-	21-Mar-16	0	
630-3362	ADB(Pier29) - (GL > 1-6/A-C) - Excav Temporary Backfill of Ground Beams	5	20-Jan-16	25-Jan-16	15-Feb-16	19-Feb-16	19	ADB(Pier29) - (GL > 1-6/A-C) - Excav Temporary Backfill of Ground Be
630-3364	ADB(Pier29) - (GL > 1-6/A-C) - Compaction of Ground level + Blinding	6	26-Jan-16	01-Feb-16	08-Mar-16	14-Mar-16	33	ADB(Pier29) - (GL > 1-6/A-C) - Compaction of Ground level
630-3366	ADB(Pier29) - (GL > 1-6/F-N) - Excav Temporary Backfill of Ground Beams - Part 1 (before CNY)	10	26-Jan-16	05-Feb-16	20-Feb-16	02-Mar-16	19	ADB(Pier29) - (GL > 1-6/F-N) - Excav Temporary Backfi
630-3368	ADB(Pier30-32) - (GL > 1-6/F-N) - Complete Excav Temporary Backfill - Part 2 (after CNY)	6	15-Feb-16	20-Feb-16	08-Mar-16	14-Mar-16	19	ADB(Pier30-32) - (GL > 1-6/F-N) -
630-3370	ADB(Pier30-32) - (GL > 1-6/F-N) - Compaction of Ground level + Blinding	6	22-Feb-16	27-Feb-16	15-Mar-16	21-Mar-16	19	ADB(Pier30-32) - (GL > 1
630-3372	ADB(Pier29-30) - (GL > 1-2.0/C-F) - Compaction of Ground level + Blinding	6	19-Feb-16	25-Feb-16	15-Mar-16	21-Mar-16	21	ADB(Pier29-30) - (GL > 1-2
7 - SECTIO	N 4 & 4A OF THE WORKS							
7.1 EBV Grou								
0710-0900	WaterProofing (N46-64/S48-67) for East Vent Bldg	5	02-Apr-16	09-Apr-16	02-Apr-16	09-Apr-16	0	
0710-1000	Backfill (N46-64/S48-67) for East Vent Bldg	12	07-Apr-16	21-Apr-16	07-Apr-16	21-Apr-16	0	
- SECTIO	N 5 WORK							
	ng Wall 'F' Substructure							
0810-1760	Construction of pile cap for Retaining Wall F @ PC13	21	16-Feb-16	10-Mar-16	14-Mar-16	09-Apr-16	23	Construc
0810-1780	Backfill of Retaining Wall F Pile Caps	7	11-Mar-16	18-Mar-16	28-Feb-17	07-Mar-17	293	
0820-1000	low wall bet C4-13/14	5	16-Feb-16	20-Feb-16	14-Mar-16	18-Mar-16	23	low wall bet C4-13/14
820-1010	low wall bet C5-11/12	7	16-Feb-16	23-Feb-16	14-Mar-16	21-Mar-16	23	low wall bet C5-11/12
	N X OF THE WORKS							
	lges (Bridge D, E and F) Pier Construction							
Pier F01 to F0								
1011-8600	F1B Pier/Column Construction	12	21-Jan-16	03-Feb-16	17-Mar-16	01-Apr-16	45	F1B Pier/Column Construction
1011-8620	F1B Crosshead Construction	18	04-Feb-16	27-Feb-16	02-Apr-16	23-Apr-16	45	F1B Crosshead Construct
1011-8640	Bearing installation pier F1B & F2B	12	29-Feb-16	12-Mar-16	25-Apr-16	07-May-16	45	Bearin
0.2 - W/B Brid	dges (Bridge C and F)							
10.2.1 - Pier Co	onstruction							
Pier 38 to 43 1021-1841	Pier 38 (F3C) - Drill holes for steel rod (24nos 30mm dim)	0	20-Jan-16	20-Jan-16	05-Feb-16	05-Feb-16		od (24nos 30mm dim)
1021-1842	Pier 38 (F3C) - Erection of UC at the bottom layer (305x305x158UC)	0	20-Jan-16	20-Jan-16	06-Feb-16	06-Feb-16		C at the bottom layer (305x305x158UC)
1021-1843	Pier 38 (F3C) - Erection of UC at the 2nd layer (254x124 UB)	0	20-Jan-16	20-Jan-16	06-Feb-16	06-Feb-16		pf UC at the 2nd layer (254x124 UB)
	Pier 38 (F3C) - Erection of Scaffolding	3				12-Feb-16	15	Pier 38 (F3C) - Erection of Scaffolding
Domo	ining Level of Effort							L
	ining Level of Effort ◆ ◆ Milestone							
	Work		(Contra	ct HY/	2009/1	9	
					-			
Remai	ining Work Three Mon	he P	ollina I	Drnara	mmo	(20 la	n 21	015 to 19 Apr 2016)

h			April		May
20	27	03	10	17 2	4 01
9					
sub-base					
		anti ana MD			
ction of ADB					
ecial Hoardi	ng after s	segment e	rection @ D	12	
Approx. +2.5					
stall Strut and	d Waling	g Support			
t Basement	(GL > 3-6	6/C-F) - 2n	d Layer Exc	av to Groun	d Beam Fo
29-30) West	Baseme	nt (GL > 3-	6/C-F) - Inst	all Pipe Pile	wall - Sun
er29-30) We	st Basen	nent (GL >	3-6/C-F) - C	chemical Gr	outina to P
er29-30) We					
			-		
DB(Pier29-30				-	
-			-	• 3-6/C-F) - E	
				L > 3-6/C-F)	
♦ ADB(Pier29-3	80) Basem	ent Comple	te Add'l Exca	avation & E
Beams					
I + Blinding					
fill of Ground	Boome	- Part 1 (h			
		-		0 (- 1 - 0)	
- Complete E					Y)
1-6/F-N) - Co					
2.0/C-F) - Co	ompactic	on of Grour	nd level + Bl	inding	
			WaterPro	ofing (N46-6	64/S48-67)
				Backf	ill (N46-64
iction of pile	cap for F	Retaining V	Vall F @ PC	:13	
Backfill o					
intion					
uction					
ing installatio	on pier F	1B & F2B			

Page 4 of 12

	Activity Name	emainir Juratior	Early Start	Early Finish	Late Start	Late Finish	Total Float	2016 February Mar
021-1845	Pier 38 (F3C) - Place bottom formwork for working platform	4	23-Jan-16	27-Jan-16	13-Feb-16	17-Feb-16	15	7 24 31 07 14 21 28 06 13 Pier 38 (F3C) - Place bottom formwork for working platform
021-1846	Pier 38 (F3C) - Fixing Reinforcement for Crosshead Bottom Layer	2	28-Jan-16	29-Jan-16	18-Feb-16	19-Feb-16	15	Pier 38 (F3C) - Fixing Reinforcement for Crosshead Bottom La
021-1847	Pier 38 (F3C) - Installation of case-in items	3	30-Jan-16	02-Feb-16	20-Feb-16	23-Feb-16	15	Pier 38 (F3C) - Installation of case-in items
021-1848	Pier 38 (F3C) - Fixing Reinforcement for Crosshead Upper Layer	2	03-Feb-16	04-Feb-16	24-Feb-16	25-Feb-16	15	Pier 38 (F3C) - Fixing Reinforcement for Crosshead L
21-1849	Pier 38 (F3C) - Installation of tie-bolts	2	05-Feb-16	06-Feb-16	26-Feb-16	27-Feb-16	15	Pier 38 (F3C) - Installation of tie-bolts
021-1850	Pier 38 (F3C) - Pouring concrete for crosshead	1	12-Feb-16	12-Feb-16	01-Mar-16	01-Mar-16	15	Pier 38 (F3C) - Pouring concrete for crossh
021-1851	Pier 38 (F3C) - Remove formwork and prepare construction joint	2	13-Feb-16	15-Feb-16	02-Mar-16	03-Mar-16	15	Pier 38 (F3C) - Remove formwork and
021-1852	Pier 38 (F3C) - Remove formwork and scaffolding	2	18-Feb-16	19-Feb-16	09-Mar-16	10-Mar-16	17	Pier 38 (F3C) - Remove formwork
021-1853	Pier 38 (F3C) - Remove structural steel of falsework	3	20-Feb-16	23-Feb-16	11-Mar-16	14-Mar-16	17	Pier 38 (F3C) - Remove stru
021-1880	Pier 38 (F3C) Install Bearing	9	16-Feb-16	25-Feb-16	04-Mar-16	14-Mar-16	15	Pier 38 (F3C) Install Bea
021-1921	Pier 39 (F4C) - Drill holes for steel rod (24nos 30mm dim)	0	20-Jan-16	20-Jan-16	05-Feb-16	05-Feb-16		holes for steel rod (24nos 30mm dim)
021-1922	Pier 39 (F4C) - Erection of UC at the bottom layer (305x305x158UC)	0	20-Jan-16	20-Jan-16	11-Feb-16	11-Feb-16		- Erection of UC at the bottom layer (305x305x158UC)
021-1923	Pier 39 (F4C) - Erection of UC at the 2nd layer (254x124 UB)	4	20-Jan-16	23-Jan-16	11-Feb-16	15-Feb-16	16	Pier 39 (F4C) - Erection of UC at the 2nd layer (254x124 UB)
021-1924	Pier 39 (F4C) - Erection of Scaffolding	3	25-Jan-16	27-Jan-16	16-Feb-16	18-Feb-16	16	Pier 39 (F4C) - Erection of Scaffolding
021-1925	Pier 39 (F4C) - Place bottom formwork for working platform	5	28-Jan-16	02-Feb-16	19-Feb-16	24-Feb-16	16	Pier 39 (F4C) - Place bottom formwork for working platfo
021-1926	Pier 39 (F4C) - Fixing Reinforcement for Crosshead Bottom Layer	2	03-Feb-16	04-Feb-16	25-Feb-16	26-Feb-16	16	Pier 39 (F4C) - Fixing Reinforcement for Crosshead I
021-1927	Pier 39 (F4C) - Installation of case-in items	3	05-Feb-16	11-Feb-16	27-Feb-16	01-Mar-16	16	Pier 39 (F4C) - Installation of case-in items
021-1928	Pier 39 (F4C) - Fixing Reinforcement for Crosshead Upper Layer	2	12-Feb-16	13-Feb-16	02-Mar-16	03-Mar-16	16	Pier 39 (F4C) - Fixing Reinforcement for
021-1929	Pier 39 (F4C) - Installation of tie-bolts	2	15-Feb-16	16-Feb-16	04-Mar-16	05-Mar-16	16	Pier 39 (F4C) - Installation of tie-bolts
021-1930	Pier 39 (F4C) - Pouring concrete for crosshead	1	17-Feb-16	17-Feb-16	07-Mar-16	07-Mar-16	16	Pier 39 (F4C) - Pouring concrete fo
021-1931	Pier 39 (F4C) - Remove formwork and prepare construction joint	3	18-Feb-16	20-Feb-16	08-Mar-16	10-Mar-16	16	Pier 39 (F4C) - Remove formwo
021-1932	Pier 39 (F4C) - Remove formwork and scaffolding	3	22-Feb-16	24-Feb-16	12-Mar-16	15-Mar-16	17	Pier 39 (F4C) - Remove fo
021-1933	Pier 39 (F4C) - Remove structural steel of falsework	5	25-Feb-16	01-Mar-16	16-Mar-16	21-Mar-16	17	Pier 39 (F4C) - Re
021-1960	Pier 39 (F4C) Install Bearing	9	22-Feb-16	02-Mar-16	11-Mar-16	21-Mar-16	16	Pier 39 (F4C) Ins
021-2001	Pier 40 (F5C) - Drill holes for steel rod (24nos 30mm dim)	3	20-Jan-16	22-Jan-16	05-Feb-16	11-Feb-16	14	Pier 40 (F5C) - Drill holes for steel rod (24nos 30mm dim)
021-2002	Pier 40 (F5C) - Erection of UC at the bottom layer (305x305x158UC)	4	23-Jan-16	27-Jan-16	12-Feb-16	16-Feb-16	14	Pier 40 (F5C) - Erection of UC at the bottom layer (305x305x15
)21-2003	Pier 40 (F5C) - Erection of UC at the 2nd layer (254x124 UB)	3	28-Jan-16	30-Jan-16	17-Feb-16	19-Feb-16	14	Pier 40 (F5C) - Erection of UC at the 2nd layer (254x124 UE
021-2004	Pier 40 (F5C) - Erection of Scaffolding	4	01-Feb-16	04-Feb-16	20-Feb-16	24-Feb-16	14	Pier 40 (F5C) - Erection of Scaffolding
021-2005	Pier 40 (F5C) - Place bottom formwork for working platform	4	05-Feb-16	12-Feb-16	25-Feb-16	29-Feb-16	14	Pier 40 (F5C) - Place bottom formwork for
021-2006	Pier 40 (F5C) - Fixing Reinforcement for Crosshead Bottom Layer	11	13-Feb-16	25-Feb-16	01-Mar-16	12-Mar-16	14	Pier 40 (F5C) - Fixing Re
021-2007	Pier 40 (F5C) - Installation of case-in items	2	26-Feb-16	27-Feb-16	14-Mar-16	15-Mar-16	14	Pier 40 (F5C) - Installa
021-2008	Pier 40 (F5C) - Fixing Reinforcement for Crosshead Upper Layer	3	29-Feb-16	02-Mar-16	16-Mar-16	18-Mar-16	14	🛄 Pier 40 (F5C) - F
021-2009	Pier 40 (F5C) - Installation of tie-bolts	2	03-Mar-16	04-Mar-16	19-Mar-16	21-Mar-16	14	Pier 40 (F5C)
021-2010	Pier 40 (F5C) - Pouring concrete for crosshead	1	05-Mar-16	05-Mar-16	22-Mar-16	22-Mar-16	14	Pier 40 (F5C)
021-2011	Pier 40 (F5C) - Remove formwork and prepare construction joint	3	07-Mar-16	09-Mar-16	23-Mar-16	26-Mar-16	14	Pier 40
021-2012	Pier 40 (F5C) - Remove formwork and scaffolding	3	12-Mar-16	15-Mar-16	01-Apr-16	05-Apr-16	15	
021-2013	Pier 40 (F5C) - Remove structural steel of falsework	3	16-Mar-16	18-Mar-16	06-Apr-16	08-Apr-16	15	
021-2040	Pier 40 (F5C) Install Bearing	9	10-Mar-16	19-Mar-16	29-Mar-16	08-Apr-16	14	
021-2081	Pier 41 (F6C) - Drill holes for steel rod (24nos 30mm dim)	3	01-Feb-16	03-Feb-16	09-Mar-16	11-Mar-16	29	Pier 41 (F6C) - Drill holes for steel rod (24nos 30mm c
021-2082	Pier 41 (F6C) - Erection of UC at the bottom layer (305x305x158UC)	4	04-Feb-16	11-Feb-16	12-Mar-16	16-Mar-16	29	Pier 41 (F6C) - Erection of UC at the bottom
021-2083	Pier 41 (F6C) - Erection of UC at the 2nd layer (254x124 UB)	4	12-Feb-16	16-Feb-16	17-Mar-16	21-Mar-16	29	Pier 41 (F6C) - Erection of UC at the
021-2084	Pier 41 (F6C) - Erection of Scaffolding	6	17-Feb-16	23-Feb-16	22-Mar-16	30-Mar-16	29	Pier 41 (F6C) - Erection of S
021-2085	Pier 41 (F6C) - Place bottom formwork for working platform	4	24-Feb-16	27-Feb-16	31-Mar-16	05-Apr-16	29	Pier 41 (F6C) - Place
021-2086	Pier 41 (F6C) - Fixing Reinforcement for Crosshead Bottom Layer	2	29-Feb-16	01-Mar-16	06-Apr-16	07-Apr-16	29	Pier 41 (F6C) - Fi>
021-2087	Pier 41 (F6C) - Installation of case-in items	3	02-Mar-16	04-Mar-16	08-Apr-16	11-Apr-16	29	— Pier 41 (F6C)
021-2088	Pier 41 (F6C) - Fixing Reinforcement for Crosshead Upper Layer	2	05-Mar-16	07-Mar-16	12-Apr-16	13-Apr-16	29	Dier 41 (F
021 2090	Pier 41 (F6C) - Installation of tie-bolts	2	09 Mar 16	00 Mar 16	14-Apr-16	15 Apr 16	29	Pier 41

Remaining Level of Effort	•	 Mileston
Actual Level of Effort		
Actual Work		
Remaining Work		
Critical Remaining Work		

Contract HY/2009/19 Three Months Rolling Programme (20 Jan 2015 to 19 Apr 2016)

h				Apr	ril		May
	20	27	03	10	17	24	01
yer							
ре	r Layer						
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	are const	truction in	int				
	d scaffoldi	ng					
tur	al steel of	falsewor	k 				
ng							
m 							
tto	m Layer						
ros	shead Up	per Laye	r				
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	nd prepare	e constru	ction ioin				
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			ead Botto	om Layer			
	of case-in						
ing	Reinforce	ement for	Crosshe	ad Upper	Layer		
Ins	tallation o	f tio holte					
- Po	ouring cor	ncrete for	crosshe	ad			
-50	C) - Remo	ve formw	ork and r	orepare co	onstruction	ioint	
	40 (550)	Deme					
	+0 (1 0 C)				el of false		
	Pier 40 (F	-5C) - Re	move str	uctural ste	el of false	work	
	Pier 40	(F5C) Ins	tall Beari	ing			
ו)							
aye	r (305x30	5x158UC	C)				
	ayer (254)				
aff	oldina						
tto	m formuro	rk for wo	king plat	fform			
					Layer		
ıg I	<eintorcei< td=""><td>ment for (</td><td>rosshea</td><td>a Bottom</td><td>Layer</td><td></td><td></td></eintorcei<>	ment for (rosshea	a Bottom	Layer		
Inst	tallation o	f case-in	items				
C)-	Fixing Re	einforcem	ent for C	crosshead	Upper La	yer	
-60	C) - Install	ation of ti	e-bolts				

)	Activity Name	Juratio		Early Finish		Late Finish	Total Float	February N 7 24 31 07 14 21 28 06
1021-2090	Pier 41 (F6C) - Pouring concrete for crosshead	2	10-Mar-16	11-Mar-16	16-Apr-16	18-Apr-16	29	Pi
1021-2091	Pier 41 (F6C) - Remove formwork and prepare construction joint	2	12-Mar-16	14-Mar-16	19-Apr-16	20-Apr-16	29	
1021-2092	Pier 41 (F6C) - Remove formwork and scaffolding	2	18-Mar-16	19-Mar-16	26-Apr-16	27-Apr-16	30	
021-2093	Pier 41 (F6C) - Remove structural steel of falsework	3	21-Mar-16	23-Mar-16	28-Apr-16	30-Apr-16	30	
021-2120	Pier 41 (F6C) Install Bearing	9	15-Mar-16	24-Mar-16	21-Apr-16	30-Apr-16	29	
021-2161	Pier 42 (F7C) - Drill holes for steel rod (24nos 30mm dim)	2	16-Feb-16	17-Feb-16	23-Mar-16	24-Mar-16	31	Pier 42 (F7C) - Drill holes for stee
021-2162	Pier 42 (F7C) - Erection of UC at the bottom layer (305x305x158	UC) 9	18-Feb-16	27-Feb-16	26-Mar-16	07-Apr-16	31	Pier 42 (F7C) - Erec
021-2163	Pier 42 (F7C) - Erection of UC at the 2nd layer (254x124 UB)	4	29-Feb-16	03-Mar-16	08-Apr-16	12-Apr-16	31	Pier 42 (F7C
021-2164	Pier 42 (F7C) - Erection of Scaffolding	3	04-Mar-16	07-Mar-16	13-Apr-16	15-Apr-16	31	Pier 42
021-2165	Pier 42 (F7C) - Place bottom formwork for working platform	4	08-Mar-16	11-Mar-16	16-Apr-16	20-Apr-16	31	Pier 42
021-2166	Pier 42 (F7C) - Fixing Reinforcement for Crosshead Bottom Laye	r 2	12-Mar-16	14-Mar-16	21-Apr-16	22-Apr-16	31	٩
1021-2167	Pier 42 (F7C) - Installation of case-in items	3	15-Mar-16	17-Mar-16	23-Apr-16	26-Apr-16	31	
1021-2168	Pier 42 (F7C) - Fixing Reinforcement for Crosshead Upper Laye	. 2	18-Mar-16	19-Mar-16	27-Apr-16	28-Apr-16	31	
1021-2169	Pier 42 (F7C) - Installation of tie-bolts	2	21-Mar-16	22-Mar-16	29-Apr-16	30-Apr-16	31	
021-2170	Pier 42 (F7C) - Pouring concrete for crosshead	2	23-Mar-16	24-Mar-16	02-May-16	03-May-16	31	
021-2171	Pier 42 (F7C) - Remove formwork and prepare construction joint	2	26-Mar-16	29-Mar-16	04-May-16	05-May-16	31	
1021-2172	Pier 42 (F7C) - Remove formwork and scaffolding	1	02-Apr-16	02-Apr-16	13-May-16	13-May-16	34	
021-2173	Pier 42 (F7C) - Remove structural steel of falsework	2	05-Apr-16	06-Apr-16	14-May-16	16-May-16	34	
021-2200	Pier 42 (F7C) Install Bearing	9	30-Mar-16	09-Apr-16	06-May-16	16-May-16	31	
021-2241	Pier 43 (F8C) - Drill holes for steel rod (24nos 30mm dim)	2	04-Mar-16	05-Mar-16	23-May-16	24-May-16	65	Pier 43 (F
021-2242	Pier 43 (F8C) - Erection of UC at the bottom layer (305x305x158	UC) 5	07-Mar-16	11-Mar-16	25-May-16	30-May-16	65	P
1021-2243	Pier 43 (F8C) - Erection of UC at the 2nd layer (254x124 UB)	3	12-Mar-16	15-Mar-16	31-May-16	02-Jun-16	65	
021-2244	Pier 43 (F8C) - Erection of Scaffolding	3	16-Mar-16	18-Mar-16	03-Jun-16	06-Jun-16	65	
021-2245	Pier 43 (F8C) - Place bottom formwork for working platform	5	19-Mar-16	24-Mar-16	07-Jun-16	13-Jun-16	65	
021-2246	Pier 43 (F8C) - Fixing Reinforcement for Crosshead Bottom Laye	r 1	26-Mar-16	26-Mar-16	14-Jun-16	14-Jun-16	65	
021-2247	Pier 43 (F8C) - Installation of case-in items	3	29-Mar-16	31-Mar-16	15-Jun-16	17-Jun-16	65	
021-2248	Pier 43 (F8C) - Fixing Reinforcement for Crosshead Upper Laye	2	01-Apr-16	02-Apr-16	18-Jun-16	20-Jun-16	65	
021-2249	Pier 43 (F8C) - Installation of tie-bolts	1	05-Apr-16	05-Apr-16	21-Jun-16	21-Jun-16	65	
021-2250	Pier 43 (F8C) - Pouring concrete for crosshead	2	06-Apr-16	07-Apr-16	22-Jun-16	23-Jun-16	65	
021-2251	Pier 43 (F8C) - Remove formwork and prepare construction joint	2	08-Apr-16	09-Apr-16	24-Jun-16	25-Jun-16	65	
021-2252	Pier 43 (F8C) - Remove formwork and scaffolding	3	14-Apr-16	16-Apr-16	02-Jul-16	05-Jul-16	66	
021-2253	Pier 43 (F8C) - Remove structural steel of falsework	2	18-Apr-16	19-Apr-16	06-Jul-16	07-Jul-16	66	
1021-2290	Pier 43 (F8C) Install Bearing	9	11-Apr-16	20-Apr-16	27-Jun-16	07-Jul-16	65	
ier 36 to 37								
1021-1640	Pier 36 (F1C) Install Bearing	7	20-Jan-16	27-Jan-16	30-Jan-16	06-Feb-16	9	Pier 36 (F1C) Install Bearing
1021-1679	Pier 37 (F2C) - Installation of case-in items	0	20-Jan-16	20-Jan-16	05-Feb-16	05-Feb-16		of case-in items
1021-1682	Pier 37 (F2C) - Fixing Reinforcement for Crosshead Upper Laye	· 1	20-Jan-16	20-Jan-16	05-Feb-16	05-Feb-16	14	Pier 37 (F2C) - Fixing Reinforcement for Crosshead Upper Layer
1021-1685	Pier 37 (F2C) - Installation of tie-bolts	2	21-Jan-16	22-Jan-16	06-Feb-16	11-Feb-16	14	Pier 37 (F2C) - Installation of tie-bolts
1021-1688	Pier 37 (F2C) - Pouring concrete for crosshead	1	25-Jan-16	25-Jan-16	13-Feb-16	13-Feb-16	14	Pier 37 (F2C) - Pouring concrete for crosshead
021-1691	Pier 37 (F2C) - Remove formwork and prepare construction joint	3	26-Jan-16	28-Jan-16	15-Feb-16	17-Feb-16	14	Pier 37 (F2C) - Remove formwork and prepare construction
021-1694	Pier 37 (F2C) - Remove formwork and scaffolding	3	30-Jan-16	02-Feb-16	19-Feb-16	22-Feb-16	14	Pier 37 (F2C) - Remove formwork and scaffolding
021-1697	Pier 37 (F2C) - Remove structural steel of falsework	3	03-Feb-16	05-Feb-16	23-Feb-16	25-Feb-16	14	Pier 37 (F2C) - Remove structural steel of falsew
1022-1920	Pier 37 (F2C) Install Bearing + Segment	7	29-Jan-16	05-Feb-16	18-Feb-16	25-Feb-16	14	Pier 37 (F2C) Install Bearing + Segment
butment D12								
	Construct Abutment D12 W/B Bridge			20-Jan-16				butment D12 W/B Bridge
	Bearing Plinths & Bearing Installations - D12 W/B Bridge	0		20-Jan-16				aring Plinths & Bearing Installations - D12 W/B Bridge
	D12 W/B Bridge - Pier Segment installations & Adjustment	1		20-Jan-16			1	D12 W/B Bridge - Pier Segment installations & Adjustment
1021-1050	Dismantle 400T Crane & move to EVB	1	21-Jan-16	21-Jan-16	22-Jan-16	22-Jan-16	1	Dismantle 400T Crane & move to EVB
Remai	ning Level of Effort 🔶 🔶 Milestone							
	Level of Effort							
Actual				∧	-1 IN//	000014	^	l l
Actual Actual				Contra	ct HY/	2009/1	9	

:h				Apri			May
1 (20 E6C) - E	27 Pouring con	03 Icrete for 0	10 crosshead	17	24	01
) - Remove			are con	struction i	oint
		, 1 (F6C) - F					
		Pier 41 (F6				-	ork
		Pier 41 (F					
d ()	24nos 3	0mm dim)		g			
`		ne bottom l	aver (305)	x305x158	UC)		
		JC at the 2					
		on of Scaffo					
		Place bottor	•	k for work	ing platf	form	
) - Fixing R					aver
		F7C) - Insta					
		2 (F7C) - F				sshead U	pper La
		ier 42 (F7C					
		Pier 42 (F	7C) - Pou	ring concr	ete for c	rosshead	
		Pie	r 42 (F7C) - Remove	e formw	ork and pr	epare
			Pier 42	(F7C) - Re	emove f	ormwork a	ind sca
			🔲 Pi	er 42 (F70	C) - Rem	nove struct	ural ste
				Pier 42 ((F7C) In	stall Beari	ng
- D	rill hole	s for steel r	od (24nos	30mm dii	m)		
3 (F8C) - E	rection of l	JC at the	bottom lay	er (305)	x305x158l	JC)
Pie	r 43 (F8	C) - Erectio	on of UC a	t the 2nd I	ayer (28	54x124 UE	3)
	Pier 43	(F8C) - Er	ection of §	Scaffolding	 		
		Pier 43 (F	8C) - Plac	e bottom f	ormwor	k for worki	ng plat
						ent for Cros	
			Pier 43 (F	8C) - Insta	llation o	of case-in i	tems
			Pier 43	(F8C) - Fi	xing Re	inforceme	nt for C
			I Pie	r 43 (F8C)	- Install	ation of tie	-bolts
			E F	Pier 43 (F8	SC) - Po	uring conc	rete fo
				Pier 43 ((F8C) - I	Remove fo	rmwor
					Pier 43	3 (F8C) - F	Remove
					🔲 Pi	er 43 (F8C) - Rer
					F	Pier 43 (F8	C) Inst
t							

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ID	Activity Name		emaini Juratio	r Early Start r	Early Finish	Late Start	Late Finish	Total Float	2016 February March 7 24 31 07 14 21 28 06 13
ier 20 to 25			-		05 1 10	00 1 10	07 1 10		
	Pier 25 Reconstruct Crosshead		5			22-Jan-16		2	Pier 25 Reconstruct Crosshead Pier 25 Install Bearing
	Pier 25 Install Bearing		3			28-Jan-16		2	
	Pier 24 Install Bearing		0			25-Feb-16			
	Pier 23 Reconstruct Crosshead		0			13-Feb-16			Ict Crosshead Pier 23 Install Bearing
	Pier 23 Install Bearing		9				23-Feb-16	18	22 Reconstruct Crosshead
	Pier 22 Reconstruct Crosshead		0			26-Jan-16			
	Pier 22 Install Bearing		6	20-Jan-16	27-Jan-16	26-Jan-16	02-Feb-16	6	Pier 22 Install Bearing
17 to 19 21-1215	Modify Pier 21 Crosshead (south wing) + Bearing		16	20-Jan-16	06-Feb-16	22-Jan-16	12-Feb-16	2	Modify Pier 21 Crosshead (south wing) + Bearing
	Modify Pier 20 Crosshead (south wing) + Bearing		29			24-Mar-16		53	Modify Pier 20 Crosshead (s
	Modify Pier 19 Crosshead (south wing) + Bearing		29			24-Mar-16		53	Modify Pier 19 Crosshead (s
	Modify Pier 18 Crosshead (south wing) + Bearing		29				29-Apr-16	53	Modify Pier 18 Crosshead (s
	Construction		20	20 0011 10	2010010	21 Mai 10	20700110	00	
ge C1									
22-1000	Bridge C1 - Precast Beams Pier 17-21 W/B (9 nos)		9	30-Mar-16	09-Apr-16	30-Apr-16	10-May-16	26	
22-1001	Bridge C1 - Construction (Pier 17 - 21) > Erect Scaffoldings + Pla	atform + Pre-cast Planking	7	02-Apr-16	11-Apr-16	04-May-16	11-May-16	26	
lge C2				44 5 4 40	00 E 10				
	Bridge C2 - Erect 6nos Pre-cast Beams - by 400T Crane						23-Feb-16		Bridge C2 - Erect 6nos Pre-cast Be Bridge C2 - Construction
	Bridge C2 - Construction (Pier 21 - 22) > Erect Scaffoldings + Pla	<u> </u>	7			,	21-May-16		Bridge C2 - Constructi
	Bridge C2 - Construction (Pier 21 - 22) > Rebar Fixing of Deck +		20				15-Jun-16		
	Bridge C2 - Construction (Pier 21- 22) > Construct Parapet (Nor		14	24-Mar-16	12-Apr-16	16-Jun-16	02-Jul-16	68	
	Bridge C2 - Construction (Pier 21-22) > Install Street Furniture/G	GullyEtc.	14	24-Mar-16	12-Apr-16	16-Jul-16	01-Aug-16	93	
	Bridge C2 - Construction (Pier 21-22) > Install MJ at Pier 22		7	13-Apr-16	20-Apr-16	25-Jul-16	01-Aug-16	86	
2-2800	Bridge C2 - Erect Pier Segment at Pier 24 (1 no) > by 400T Cran	ne	6	23-Feb-16	29-Feb-16	25-Feb-16	02-Mar-16	2	Bridge C2 - Erect Pier
22-2802	Dismantle/Demobilize 400T Crane between Pier 25 & 24		1	26-Feb-16	26-Feb-16	26-Feb-16	26-Feb-16	0	Dismantle/Demobilize 400
22-2804	Bridge C2 - Erect falsework for End Span at Pier 25 - Westside		5	27-Feb-16	03-Mar-16	27-Feb-16	03-Mar-16	0	Bridge C2 - Erect f
22-2805	Launch LG2 at Pier 25 to 24		2	04-Mar-16	05-Mar-16	04-Mar-16	05-Mar-16	0	Launch LG2 at
22-2807	Bridge C2 - Erect End-span at Pier 25 Westside (5 nos)S > By L	G2	7	07-Mar-16	14-Mar-16	07-Mar-16	14-Mar-16	0	Bric
2-2820	Bridge C2 - Erect T-span at Pier 24 (10 nos) > By LG2		3	07-Mar-16	09-Mar-16	07-Mar-16	09-Mar-16	0	Bridge C2
2-2822	Bridge C2 - Stitching at midspan between Pier 24 and 25		3	10-Mar-16	12-Mar-16	10-Mar-16	12-Mar-16	0	Eridge
2-2824	Launch LG2 at Pier 23 to 22		2	14-Mar-16	15-Mar-16	14-Mar-16	15-Mar-16	0	Bridge
2-2826	Bridge C2 - Erect T-span at Pier 23 (12 nos) > By LG2		3	16-Mar-16	18-Mar-16	16-Mar-16	18-Mar-16	0	
22-2827	Bridge C2 - Erect End-span at Pier 22 (4 nos) > By LG2		7	16-Mar-16	23-Mar-16	16-Mar-16	23-Mar-16	0	
22-2828	Dismantle LG2 at Bridge C2		15	24-Mar-16	13-Apr-16	24-Mar-16	13-Apr-16	0	
22-2829	Bridge C2 - Erect Pier Segment at Pier 22 (1 no) > by 400T Cran	16	6	01-Feb-16	06-Feb-16	03-Feb-16	12-Feb-16	2	Bridge C2 - Erect Pier Segment at Pier 22 (1 no) > by
2-2846	Bridge C2 - Erect Pier Segment at Pier 23 (1 no) > by 400T Cran	ne	6	22-Feb-16	27-Feb-16	24-Feb-16	01-Mar-16	2	Bridge C2 - Erect Pier Se
2-2851	Bridge C2 - Erect falsework for End Span at Pier 22 - Eastside		5	22-Feb-16	26-Feb-16	10-Mar-16	15-Mar-16	15	Bridge C2 - Erect falsewor
2-2920	Bridge C2 - Stitching at midspan between Pier 23 and 24		3	19-Mar-16	22-Mar-16	11-Jun-16	14-Jun-16	68	
	Bridge C2 - Stitching at midspan between Pier 22 and 23		3	24-Mar-16	29-Mar-16	11-Jun-16	14-Jun-16	64	
	Bridge C2 - External Stressing		7				22-Jun-16	64	
lge C3				oo mar ro	01.7.0	io cuil io	22 0uii 10	•••	
	Erect/Assemble LG2 at Piers 29 and 30 + 280T Crane		9	20-Jan-16	29-Jan-16	20-Jan-16	29-Jan-16	0	Erect/Assemble LG2 at Piers 29 and 30 + 280T Crane
22-1071	Launch LG2 at Pier 28 to 27		2	30-Jan-16	01-Feb-16	30-Jan-16	01-Feb-16	0	Launch LG2 at Pier 28 to 27
)22-1072	Construct Temporary road location at Oil Street to HGHK Carpar	k + Divert Traffic	4	20-Jan-16	23-Jan-16	22-Jan-16	26-Jan-16	2	Construct Temporary road location at Oil Street to HGHK Carpark + Dive
022-1073	Bridge C3 - Erect falsework for End Span at Pier 28		5	25-Jan-16	29-Jan-16	27-Jan-16	01-Feb-16	2	Bridge C3 - Erect falsework for End Span at Pier 28
022-1075	Relocate 400T Crane from EVB to W/B Bridge		2	23-Jan-16	25-Jan-16	27-Jan-16	28-Jan-16	3	Relocate 400T Crane from EVB to W/B Bridge
022-1120	Bridge C3 - Erect Pier Segment at Pier 27 (1no) > by 400T Cran	e	6	26-Jan-16	01-Feb-16	29-Jan-16	04-Feb-16	3	Bridge C3 - Erect Pier Segment at Pier 27 (1no) > by 400T C
022-2580	Bridge C3 - Erect T-span at Pier 27 (10 nos) > By LG2		3	02-Feb-16	04-Feb-16	06-Feb-16	12-Feb-16	4	Bridge C3 - Erect T-span at Pier 27 (10 nos) > By LG2
	ning Level of Effort						2009/1		
🔲 Remai	ning Work	Three Mon	ths Ro	olling	Progra	mme (20 Ja	n 20	D15 to 19 Apr 2016)
Critica	Remaining Work								·····

Remaining Work Critical Remaining Work

:h	20	07		Ap			May
	20	27	03	10	17	24	01
(sou	th wind	g) + Bear	rina				
		g) + Beai					
(SOL	ith wing	g) + Bear	nng				
				Bridge	C1 - Pro	cast Bear	ne Diar
				Bridg	ge C1 - 0	Constructi	on (Piel
Poor	ne hv	400T Cr	200				
tion				affoldings +			
	E	Bridge C	2 - Constr	uction (Pier			
				Bri	dge C2 -	Construc	tion (Pi
				Bri	dge C2 -	Construc	tion (Pi
						Bridge C2	- Const
r So	ament	at Pier 2	4(1no)>	by 400T C	`rane		
			Pier 25 &				
t fals	sework	for End	Span at Pi	er 25 - We	stside		
t Pie	er 25 to	24					
idge	e C2 - E	rect End	l-span at F	Pier 25 We	stside (5	nos)S > E	By LG2
2 - E	rect T-	span at l	Pier 24 (10) nos) > By	LG2		
				etween Pie		d 25	
		2 at Pier					
				at Pier 23 (′			
	E	Bridge C	2 - Erect E	nd-span at	Pier 22	(4 nos) >	By LG2
				D	ismantle	LG2 at B	ridge C
	0T Cra						
Sean	nent at	Pier 23 (1 no) > by	400T Crar	 1e		
			Pier 22 - E				
				at midspa	- h - t	Di 00	
	B						
		B		- Stitching a			
				Bridge C2	2 - Exterr	al Stress	ing
ert T	raffic						
Cra							
		Do	ge 7 of 1	12			
		ra	ge / 01 1	12			

ty ID	Activity Name	emaini Juratio	ir Early Start	Early Finish	Late Start	Late Finish	Total Float	2016 February March 7 24 31 07 14 21 28 06 13
1022-2582	Bridge C3 - Erect End Span at Pier 28 (5 nos) > By LG2	7	02-Feb-16	12-Feb-16	02-Feb-16	12-Feb-16	0	Bridge C3 - Erect End Span at Pier 28 (5 nos
1022-2583	Bridge C3 - Stitching at midspan between Pier 27 and 28	2	13-Feb-16	15-Feb-16	13-Feb-16	15-Feb-16	0	Bridge C3 - Stitching at midspan betweer
1022-2584	Launch LG2 at Pier 26 to 25	2	16-Feb-16	17-Feb-16	16-Feb-16	17-Feb-16	0	Launch LG2 at Pier 26 to 25
1022-2585	Bridge C3 - Erect T-span at Pier 26 (12 nos) > By LG2	3	18-Feb-16	20-Feb-16	18-Feb-16	20-Feb-16	0	Bridge C3 - Erect T-span at Pier 20
1022-2586	Bridge C3 - Stitching at midspan between Pier 26 and 27	2	22-Feb-16	23-Feb-16	10-Mar-16	11-Mar-16	15	Bridge C3 - Stitching at midsp
1022-2588	Bridge C3 - Erect End Segment at Pier 25 Eastside (4 nos) > By LG2	7	18-Feb-16	25-Feb-16	18-Feb-16	25-Feb-16	0	Bridge C3 - Erect End Segr
1022-2590	Bridge C3 - Stitching at midspan between Pier 25 and 26	2	26-Feb-16	27-Feb-16	04-Mar-16	05-Mar-16	6	Bridge C3 - Stitching at r
1022-2620	Bridge C3 - Erect Pier Segment at Pier 26 (1no) > by 400T Crane	6	27-Jan-16	02-Feb-16	30-Jan-16	05-Feb-16	3	Bridge C3 - Erect Pier Segment at Pier 26 (1no) > by 400
1022-2642	Bridge C3 - Erect Pier Segment at Pier 25 (2 nos) > by 400T Crane	7	29-Jan-16	05-Feb-16	01-Feb-16	11-Feb-16	2	Bridge C3 - Erect Pier Segment at Pier 25 (2 nos) > by
1022-2644	Bridge C3 - Erect falsework for End Span at Pier 25 - Eastside	5	06-Feb-16	15-Feb-16	12-Feb-16	17-Feb-16	2	Bridge C3 - Erect falsework for End Spar
1022-2740	Bridge C3 - External Stressing	10	29-Feb-16	10-Mar-16	12-Mar-16	23-Mar-16	11	Bridge C
1022-2760	Bridge C3 - Construct North Parapet (83m)	18	11-Mar-16	02-Apr-16	17-Jun-16	08-Jul-16	80	
1022-2780	Bridge C3 - Construct South Parapet (83m)	18	11-Mar-16	02-Apr-16	17-Jun-16	08-Jul-16	80	
1022-4110	Bridge C3 - Construct Int. Single Noise Encl. Bridge C3 (83m)	24	05-Apr-16	02-May-16	09-Jul-16	05-Aug-16	80	
Bridge C4								
	Bridge C4 - Construct South Parapet (108m)	23				29-Feb-16		Bridge C4 - Construct South Parapet
	Bridge C4 - Construct North Parapet (108m)	23	20-Jan-16	18-Feb-16	30-Jan-16	29-Feb-16	9	Bridge C4 - Construct North Parapet
1022-3863	Bridge C4 - Construct Int. Single Noise Encl. Bridge C4 (108m) - Stage 1 (sides)	20				23-Mar-16		Bridg
1022-3864		24	19-Feb-16	17-Mar-16	15-Jul-16	11-Aug-16	121	
	Bridge C4 - Deck Road Waterproofing, Surfacing & Marking	7	21-Mar-16	30-Mar-16	15-Aug-16	22-Aug-16	121	
Bridge C5 1022-3901	Pier 33 - T Span Erection (5 pairs)	0	20-Jan-16	20-Jan-16	20-Jan-16	20-Jan-16		pan Erection (5 pairs)
1022-3903	LG-A Launching - Deactivate MS at P31 and Relocate to P34 by Engage RL at P30-31	3	20-Jan-16	22-Jan-16	20-Jan-16	22-Jan-16	0	LG-ALaunching - Deactivate MS at P31 and Relocate to P34 by Engage
1022-3905	Pier 33 - P32-33 End Span - Hanging Segments	2	23-Jan-16	25-Jan-16	23-Jan-16	25-Jan-16	0	Pier 33 - P32-33 End Span - Hanging Segments
1022-3907	Pier 33 - P32-33 End Span - Erect Segments	1	26-Jan-16	26-Jan-16	26-Jan-16	26-Jan-16	0	Pier 33 - P32-33 End Span - Erect Segments
1022-3909	Pier 33 - P32-33 End Span - Stitching	3	27-Jan-16	29-Jan-16	27-Jan-16	29-Jan-16	0	Pier 33 - P32-33 End Span - Stitching
1022-3911	Pier 33 - P32-33 End Span - Formwork Fixing for and Grouting for Bearing	3	27-Jan-16	29-Jan-16	27-Jan-16	29-Jan-16	0	Pier 33 - P32-33 End Span - Formwork Fixing for and Grouting
1022-3913	Pier 33 - P32-33 End Span - Prestress Span Tendons	1	30-Jan-16	30-Jan-16	30-Jan-16	30-Jan-16	0	Pier 33 - P32-33 End Span - Prestress Span Tendons
1022-3915	Pier 33 - P32-33 End Span - Remove Hanger Bar & Hanger Beam & Stitching Formwork	1	01-Feb-16	01-Feb-16	19-Feb-16	19-Feb-16	13	Pier 33 - P32-33 End Span - Remove Hanger Bar & Hange
1022-3917	Pier 34 - T Span Erection (4 pairs)	2	27-Jan-16	28-Jan-16	28-Jan-16	29-Jan-16	1	Pier 34 - T Span Erection (4 pairs)
1022-3919	Bridge C5 T Span Stitching - Install Clamping Beam and Adjust T span (P33-P34)	1	30-Jan-16	30-Jan-16	30-Jan-16	30-Jan-16	0	Bridge C5 T Span Stitching - Install Clamping Beam and Adjus
1022-3921	Bridge C5 T Span Stitching - Stitching (P33-P34)	2	01-Feb-16	02-Feb-16	01-Feb-16	02-Feb-16	0	Bridge C5 T Span Stitching - Stitching (P33-P34)
1022-3923	Bridge C5 T Span Stitching - Prestress Span Tendons (P33-P34)	1	03-Feb-16	03-Feb-16	03-Feb-16	03-Feb-16	0	Bridge C5 T Span Stitching - Prestress Span Tendons (PS)
1022-3924	Abut. D12 (MJ Left) - End Span Erection - Hanging Segments	2	12-Feb-16	13-Feb-16	12-Feb-16	13-Feb-16	0	Abut. D12 (MJ Left) - End Span Erection - H
1022-3927	Abut. D12 (MJ Left) - End Span Erection - Erect Segments	1	15-Feb-16	15-Feb-16	15-Feb-16	15-Feb-16	0	Abut. D12 (MJ Left) - End Span Erection
1022-3930	Abut. D12 (MJ Left) - End Span Erection - Stitching	3	16-Feb-16	18-Feb-16	16-Feb-16	18-Feb-16	0	Abut. D12 (MJ Left) - End Span Ere
1022-3933	Abut. D12 (MJ Left) - End Span Erection - Formwork Fixing for and Grouting for Bearing	3	16-Feb-16	18-Feb-16	16-Feb-16	18-Feb-16	0	Abut. D12 (MJ Left) - End Span Erec
1022-3936	Abut. D12 (MJ Left) - End Span Erection - Prestress Span Tendons	1	19-Feb-16	19-Feb-16	19-Feb-16	19-Feb-16	0	Abut. D12 (MJ Left) - End Span En
1022-3939	Abut. D12 (MJ Left) - End Span Erection - Remove Hanger Bar & Hanger Beam & Stitching Formwork	1	20-Feb-16	20-Feb-16	20-Feb-16	20-Feb-16	0	Abut. D12 (MJ Left) - End Span E
1022-3942	Prestress Extenral Tendon of Bridge C5	12	20-Feb-16	04-Mar-16	20-Feb-16	04-Mar-16	0	Prestress Exten
1022-3950	Bridge C5 - Construct North Parapet (75m)	16	05-Mar-16	23-Mar-16	05-Mar-16	23-Mar-16	0	
1022-3951	Bridge C5 - Construct South Parapet (75m)	16	05-Mar-16	23-Mar-16	05-Mar-16	23-Mar-16	0	
1022-3952	Bridge C5 - Construct Int. Single Noise Encl. Bridge C5 (75m) - Stage 1	18	24-Mar-16	16-Apr-16	24-Mar-16	16-Apr-16	0	
1022-3053	Bridge C5 - Construct Int. Single Noise Encl. Bridge C5 (75m) - Stage 2	18	24-Mar-16	16-Apr-16	24-Mar-16	16-Apr-16	0	+
1022-5555	Bridge C5 - Deck Road Waterproofing, Surfacing & Marking	7	18-Apr-16	25-Apr-16	15-Aug-16	22-Aug-16	100	+
			1	1	1			
1022-3954 Bridge F1C			1			-		
1022-3954 Bridge F1C 1022.1-395	5 LG-A Launching - Deactivate MS at P32 and Relocate to D12 by Engage RL at P31-32 5 LG-A Launching - Deactivate the MS at P33 and Engage FL at F1C/Pier36	2				03-Feb-16 06-Feb-16		LG-A Launching - Deactivate MS at P32 and Relocate to LG-A Launching - Deactivate the MS at P33 and Eng

Actual Level of Effort Actual Work Remaining Work Critical Remaining Work

Contract HY/2009/19 Three Months Rolling Programme (20 Jan 2015 to 19 Apr 2016)

h				April				May
20	27	03	1	0	17		24	01
s) > By LG2								
n Pier 27 an	d 28							
6 (12 nos) >	-							
an between	Pier 26 a	and 27						
ment at Pier	25 Eastsi	ide (4 no	os) > B	v LG2	2			
midspan bet								
T Crane								
/ 400T Crane	;							
n at Pier 25 -	Eastside	 ;						
C3 - External								
		-						
					truct Nor			
		Bridge	e C3 -	Const	truct Sou	ith P	arape	t (83n
								В
t (108m)								
t (108m)								
je C4 - Const	truct Int. S	Single N	oise E	ncl. B	sridge C4	4 (10	98m) -	Stage
Bridge C4	-Construc	ct Int. Sir	ngle N	oise E	Encl. Bri	dge	C4 (10)8m) -
	Br	idge C4	- Dec	k Roa	d Water	proc	fina S	Surfac
						P		
e RL at P30-3	31							
for Bearing								
er Beam & St	itching Fo	ormwork						
	0.000							
stTspan (P3	3-P34)							
33-P34)								
Hanging Seg	iments							
- Erect Seg								
ction - Stitchi	ng							
ction - Formw	ork Fixin	ig for an	d Grou	uting f	for Beari	ng		
ection - Prest	tress Spa	n Tendo	ns					
rection - Rer				-		04:44		
					Beam &			ormw
ral Tendon of								
Bri	dge C5 -	Constru	ct Nor	th Pa	rapet (7	5m)		
Bri	dge C5 -	Constru	ct Sou	ith Pa	ranet (7	5m)		
	uge 00 -				Bridge		0	
					Bridge	C5 -	Cons	truct l
							Bridg	e C5
D12 by Eng	age RL a	at P31-3	2					
gage FL at F								
		-						

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	Activity Name	emain Juratio		Early Finish	Late Start	Late Finish	Total Float	2016 February Mar 7 24 31 07 14 21 28 06 13
022.1-397	5 Pier 36 - Install Pier Segment - Place Pier Segment	1	11-Feb-16	11-Feb-16	11-Feb-16	11-Feb-16	0	7 24 31 07 14 21 28 06 13 ∎ Pier 36 - Install Pier Segment - Place Pier Se
22.1-398	5 Pier 36 - Install Pier Segment - Adjust Segment Level and Location	2	12-Feb-16	13-Feb-16	12-Feb-16	13-Feb-16	0	Pier 36 - Install Pier Segment - Adjust Seg
2.1-399	5 Pier 36 - Install Pier Segment - Grouting the Bearing Upper Plinth	4	15-Feb-16	18-Feb-16	15-Feb-16	18-Feb-16	0	Pier 36 - Install Pier Segment - Gro
2.1-400	5 Pier 36 - Install Pier Segment - Stressing Nailing	1	19-Feb-16	19-Feb-16	19-Feb-16	19-Feb-16	0	Pier 36 - Install Pier Segment - Si
2.1-401	5 Pier 36 - Install MS at Pier 36	1	20-Feb-16	20-Feb-16	20-Feb-16	20-Feb-16	0	Pier 36 - Install MS at Pier 36
2.1-402	5 LG-A Launching - Shift the MS from D12 Right to Left	1	22-Feb-16	22-Feb-16	22-Feb-16	22-Feb-16	0	LG-A Launching - Shift the M
22.1-403	5 LG-A Launching - Deactivate the MS at P34 and Engage FL at F2C/Pier37	3	23-Feb-16	25-Feb-16	23-Feb-16	25-Feb-16	0	LG-ALaunching - Deacti
2.1-404	5 Pier 37 - Install Pier Segment - Place Pier Segment	1	26-Feb-16	26-Feb-16	26-Feb-16	26-Feb-16	0	Pier 37 - Install Pier Se
22.1-405	5 Pier 37 - Install Pier Segment - Adjust Segment Level and Location	2	27-Feb-16	29-Feb-16	29-Feb-16	01-Mar-16	1	Pier 37 - Install Pie
22.1-406	5 Pier 37 - Install Pier Segment - Grouting the Bearing Upper Plinth	4	01-Mar-16	04-Mar-16	02-Mar-16	05-Mar-16	1	Pier 37 - Insta
22.1-407	5 Pier 37 - Install Pier Segment - Stressing Nailing	1	05-Mar-16	05-Mar-16	07-Mar-16	07-Mar-16	1	∎ Pier 37 - Ins
22.1-408	5 Pier 37 - Install MS at F2C/Pier37	1	07-Mar-16	07-Mar-16	08-Mar-16	08-Mar-16	1	∎ Pier 37 -
22.1-409	5 Pier 36 - T Span Erection (6 pairs)	4	27-Feb-16	02-Mar-16	27-Feb-16	02-Mar-16	0	Pier 36 - T Span
2.1-410	5 Abut. D12 (MJ Right) - End Span Erection - Hanging Segments	3	03-Mar-16	05-Mar-16	03-Mar-16	05-Mar-16	0	Abut. D12 (M
2.1-411	5 Abut. D12 (MJ Right) - End Span Erection - Erect Segments	2	07-Mar-16	08-Mar-16	07-Mar-16	08-Mar-16	0	Abut. D12
2.1-412	5 Abut. D12 (MJ Right) - End Span Erection - Stitching	3	09-Mar-16	11-Mar-16	09-Mar-16	11-Mar-16	0	Abut
2.1-413	5 Abut. D12 (MJ Right) - End Span Erection - Formwork Fixing for and Grouting for Bearing	3	09-Mar-16	11-Mar-16	09-Mar-16	11-Mar-16	0	Abut
2.1-414	5 Abut. D12 (MJ Right) - End Span Erection - Prestress Span Tendons	1	12-Mar-16	12-Mar-16	12-Mar-16	12-Mar-16	0	Abı
2.1-415	5 Abut. D12 (MJ Right) - End Span Erection - Remove Hanger Bar & Hanger Beam & Stitching Formwork	1	14-Mar-16	14-Mar-16	14-Mar-16	14-Mar-16	0	، ۱
2.1-416	5 Pier 37 - T Span Erection (3 pairs)	2	09-Mar-16	0 10-Mar-16	09-Mar-16	10-Mar-16	0	Pier 3
2.1-417	5 LG-A Launching - Deactivate the MS at D12 and Engage FL at F3C/Pier38	3	11-Mar-16	14-Mar-16	11-Mar-16	14-Mar-16	0	
2.1-418	5 Pier 38 - Install Pier Segment - Place Pier Segment	2	15-Mar-16	6 16-Mar-16	15-Mar-16	16-Mar-16	0	
2.1-419	5 Pier 38 - Install Pier Segment - Adjust Segment Level and Location	4	17-Mar-16	21-Mar-16	17-Mar-16	21-Mar-16	0	
2.1-420	5 Pier 38 - Install Pier Segment - Install the Tie & Packing System	1	22-Mar-16	22-Mar-16	22-Mar-16	22-Mar-16	0	
2.1-421	5 Pier 38 - Install MS at F3C/Pier38 (Left)	1	23-Mar-16	23-Mar-16	23-Mar-16	23-Mar-16	0	
2.1-422	5 Pier 37 - T Span Erection (2 pairs)	1	17-Mar-16	5 17-Mar-16	17-Mar-16	17-Mar-16	0	
.1-423	5 LG-A Launching - Deactivate the MS at F1C and Engage FL at F4C/Pier39	3	18-Mar-16	21-Mar-16	18-Mar-16	21-Mar-16	0	
2.1-424	0 Prestress Extenral Tendon of Bridge F1C	13	05-Apr-16	19-Apr-16	14-Jun-16	28-Jun-16	59	
<mark>ge F2C</mark> 22 1-425	5 Pier 39 - Install Pier Segment - Place Pier Segment	1	22-Mar-16	22-Mar-16	22-Mar-16	22-Mar-16	0	
	8 Pier 39 - Install Pier Segment - Adjust Segment Level and Location	2		24-Mar-16				
	1 Pier 39 - Install Pier Segment - Grouting the Bearing Upper Plinth	4		31-Mar-16			0	
	4 Pier 39 - Install Pier Segment - Stressing Nailing	1		01-Apr-16			0	
	7 Pier 39 - Install MS at F4C/Pier 39	1	· ·	02-Apr-16	· ·			
	0 Bridge F1-F2 T Span Stitching - Install Clamping Beam and Adjust T span (F1-F2)	1	·	22-Mar-16	· ·	· ·		
	3 Bridge F1-F2 T Span Stitching - Stitching (F1-F2)	2		22-Mar-10			64	
	6 Bridge F1-F2 T Span Stitching - Prestress Span Tendons (F1-F2)	1		24-Mar-10				
	9 Pier 38 - End Span Erection - Hanging Segments	2		20-Mar-10				
	2 Pier 38 - End Span Erection - Erect Segments	1		24-Mar-16				
	5 Pier 38 - End Span Erection - Elect Segments	2		31-Mar-16				
	8 Pier 38 - End Span Erection - Formwork Fixing for and Grouting for Bearing	3		31-Mar-16			0	
22.1-420		3						
22 1 420			· ·	01-Apr-16	· ·	· ·	0	
	1 Pier 38 - End Span Erection - Prestress Span Tendons	4		LUZ-ADE-16	UZ-ADI-10	02-Apr-16	0	
)22.1-429	4 Pier 38 - End Span Erection - Remove Hanger Bar & Hanger Beam & Stitching Formwork	1				05 4 40	0	
22.1-429 22.1-429	4 Pier 38 - End Span Erection - Remove Hanger Bar & Hanger Beam & Stitching Formwork 7 LG-A Launching - Shift the MS from F3C/Pier38 Right to Left	1	05-Apr-16	05-Apr-16	05-Apr-16		0	
022.1-429 022.1-429 022.1-430	4 Pier 38 - End Span Erection - Remove Hanger Bar & Hanger Beam & Stitching Formwork 7 LG-ALaunching - Shift the MS from F3C/Pier38 Right to Left 0 LG-ALaunching - Deactivate the MS at F2C/Pier37 and Engage FL at F5C/Pier40	1 1 3	05-Apr-16 06-Apr-16	05-Apr-16 08-Apr-16	05-Apr-16 06-Apr-16	08-Apr-16	0	
022.1-429 022.1-429 022.1-430 022.1-430	4 Pier 38 - End Span Erection - Remove Hanger Bar & Hanger Beam & Stitching Formwork 7 LG-A Launching - Shift the MS from F3C/Pier38 Right to Left	1 1 3 2 4	05-Apr-16 06-Apr-16 09-Apr-16	05-Apr-16	05-Apr-16 06-Apr-16 09-Apr-16	08-Apr-16 11-Apr-16		

Remaining Level of Effort 🔶	 Milestone
Actual Level of Effort	
Actual Work	
Remaining Work	
Critical Remaining Work	

Contract HY/2009/19 Three Months Rolling Programme (20 Jan 2015 to 19 Apr 2016)

h	20	27	03	Apri	17	24	May
gn	nent	21	03	10	17	24	
me	nt Level a	and Locat	tion				
utir	ng the Bea	aring Upp	er Plinth				
	sing Nailir						
fro	om D12 R	ight to Le	ft				
			d Engage	FL at F2C	C/Pier37		
me	nt - Place	Pier Seg	ment				
			ment Leve	and Loc	ation		
			ing the Be				
			ssing Nail				
	II MS at F						
	ction (6 pa						
			rection - H	anging Se	eaments		
			in Erection				
			Span Ere				
			Span Ere			xing for a	nd Gr
			d Span Er				
			End Span				
	Span Ere						
			tivate the	MS at D1	2 and En	gage FL	at F30
			Segment -				
			II Pier Seg				el and
			tall Pier Se				
			stall MS a				
F			ection (2 p				
			ng - Deac		MS at F10	C and En	laade
						stress Ext	
			tall Pier Se	-		-	
	P		nstall Pier				
		F	Pier 39 - Ir	nstall Pier	Segment	- Groutin	ig the
		I	Pier 39 -	Install Pie	er Segmei	nt - Stress	sing N
				- Install N			
	🛛 Brid	lge F1-F2	? T Span S	titching -	Install Cla	imping Be	eam a
			F2 T Spar				
	0	Bridge	F1-F2 T S	oan Stitch	ing - Pres	tress Spa	an Ter
	P	Pier 38 - E	End Span	Erection -	Hanging	Segmen	ts
		Pier 38	- End Spa	an Erectio	n - Erect	Segment	s
		F	Pier 38 - E	nd Span	Erection -	Stitching	
		F	Pier 38 - E	nd Span	Erection -	Formwo	rk Fixi
			Pier 38 -	End Spar	n Erection	- Prestre	ss Sp
		I	Pier 38	- End Spa	an Erectio	n - Remo	ove Ha
			LG-/	ALaunchi	ng - Shifi	the MS f	rom F
				LG-A Lau	nching -	Deactivat	e the
				Pier 4	0 - Instal	I Pier Seg	gmen
					Pier 40 -	Install Pie	er Seg

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Activity Name		emainir Juratior		Early Finish	Late Start	Late Finish	Total Float	2016 February Ma
1022.1-4309 Pier 40 - Install Pier Segment - Install the Tie & Packing System		1	16-Apr-16	16-Apr-16	16-Apr-16	16-Apr-16	0	7 24 31 07 14 21 28 06 1
022.1-4312 Pier 40 - Install Pier Segment - Install MS at F5C/Pier40 (Right)		1	18-Apr-16	18-Apr-16	18-Apr-16	18-Apr-16	0	
022.1-4315 Pier 39(MJ Right) - T Span Erection (6 pairs)		3	12-Apr-16	14-Apr-16	12-Apr-16	14-Apr-16	0	
022.1-4318 Pier 39(MJ Right) - End Span Erection - Hanging Segments		2	15-Apr-16	16-Apr-16	15-Apr-16	16-Apr-16	0	
022.1-4321 Pier 39(MJ Right) - End Span Erection		1	18-Apr-16	18-Apr-16	18-Apr-16	18-Apr-16	0	
022.1-4324 Pier 39(MJ Right) - End Span Erection - Stitching		3	19-Apr-16	21-Apr-16	20-Jun-16	22-Jun-16	52	
022.1-4327 Pier 39(MJ Right) - End Span Erection - Formwork Fixing for and G	routing for Bearing	3	19-Apr-16	21-Apr-16	20-Jun-16	22-Jun-16	52	
022.1-4330 Pier 39(MJ Right) - End Span Erection - Prestress Span Tendons		1	22-Apr-16	22-Apr-16	23-Jun-16	23-Jun-16	52	
1022.1-4333 Pier 39(MJ Right) - End Span Erection - Remove Hanger Bar & Ha	nger Beam & Stitching Formwork	1	23-Apr-16	23-Apr-16	24-Jun-16	24-Jun-16	52	
022.1-4336 Pier 40(MJ Left) - End Span Erection - Hanging Segments	<u> </u>	2	19-Apr-16	20-Apr-16	19-Apr-16	20-Apr-16	0	
1022.1-4339 Pier 40(MJ Left) - End Span Erection - Erect Segments		1	· ·	· ·	21-Apr-16	· ·	0	
022.1-4342 Pier 40(MJ Left) - End Span Erection - Stitching		3	· ·	· ·	22-Apr-16	· ·	0	
1022.1-4345 Pier 40(MJ Left) - End Span Erection - Formwork Fixing for and Gro	outing for Bearing		· ·	· ·	22-Apr-16	· ·	0	
022.1-4348 Pier 40(MJ Left) - End Span Erection - Prestress Span Tendons	g	1	· ·	· ·	26-Apr-16	· ·	0	
022.1-4351 Pier 40(MJ Left) - End Span Erection - Remove Hanger Bar & Han	ner Beam & Stitching Formwork	1	· ·	· ·	27-Apr-16	· ·	0	
022.1-4354 LG-A Launching - Deactivate the MS at F3C/Pier37 and Engage F			· ·		28-Apr-16		0	
idge F3C		5		01-10		50 Api-10		
022.1-4370 Pier 41 - Install Pier Segment - Place Pier Segment		1	02-May-16	02-May-16	02-May-16	02-May-16	0	
3 - Middle Bridge (Bridge F)			-					
3.1 - Pier Construction								
butment D12 031-1920 Complete ABUT D12 at Middle Bridge		20	19-Feb-16	12-Mar-16	15-Apr-16	07-May-16	45	
- Tunnel Approach Ramp		20		12 Mai 10	10770110	or way to		
6.1 - Approach Ramp (Excluding Portion IIB)								
ored Piles								
1061-1120 Bored Piles Testing Approach Ramp (112 nos)						01-Nov-16		Pre Bored H-Pile > Pile Ramp - BN14 A
061-3980 Pre Bored H-Pile > Pile Ramp - BN14 A								
1061-3981 Pre Bored H-Pile > Pile Ramp - BN14 A - (H-Pile + Grouting)		1				26-Dec-16		
061-4000 Pre Bored H-Pile > Pile Ramp - BN14 B		3				24-Dec-16		Pre Bored H-Pile > Pile Ramp - BN14 B
061-4001 Pre Bored H-Pile > Pile Ramp - BN14 B - (H-Pile + Grouting)		1				26-Dec-16	275	
1061-40221 Pre Bored H-Pile > Pile Ramp - BN15 A - (H-Pile + Grouting)		0			22-Jan-16			Pre Bored H-Pile > Pile Ramp - BN15A - (H-Pile + Grouting)
061-4041 Pre Bored H-Pile > Pile Ramp - BN15 B - (H-Pile + Grouting)		0			26-Dec-16			le > Pile Ramp - BN15 B - (H-Pile + Grouting)
061-4061 Pre Bored H-Pile > Pile Ramp - BN16 A - (H-Pile + Grouting)		0	20-Jan-16	20-Jan-16	26-Dec-16	26-Dec-16		Pre Bored H-Pile > Pile Ramp - BN16 A - (H-Pile + Grouting)
1061-4081 Pre Bored H-Pile > Pile Ramp - BN16 B - (H-Pile + Grouting)		0	20-Jan-16	20-Jan-16	26-Dec-16	26-Dec-16		BN16 B - (H-Pile + Grouting)
061-4101 Pre Bored H-Pile > Pile Ramp - BM07 A - (H-Pile + Grouting)								
		0	20-Jan-16	20-Jan-16	22-Jan-16	22-Jan-16		Pre Bored H-Pile > Pile Ramp - BM07 A - (H-Pile + Grouting)
1061-4120 Pre Bored H-Pile > Pile Ramp - BM07 B		0			22-Jan-16 22-Jan-16			Pre Bored H-Pile > Pile Ramp - BM07 A - (H-Pile + Grouting) > Pile Ramp - BM07 B
· · · · · · · · · · · · · · · · · · ·			20-Jan-16	20-Jan-16		22-Jan-16		> Pile Ramp - BM07 B le > Pile Ramp - BM07 B - (H-Pile + Grouting)
061-4121 Pre Bored H-Pile > Pile Ramp - BM07 B - (H-Pile + Grouting)		0	20-Jan-16 20-Jan-16	20-Jan-16 20-Jan-16	22-Jan-16	22-Jan-16 22-Jan-16		> Pile Ramp - BM07 B le > Pile Ramp - BM07 B - (H-Pile + Grouting)
061-4121Pre Bored H-Pile > Pile Ramp - BM07 B - (H-Pile + Grouting)061-4141Pre Bored H-Pile > Pile Ramp - BM08 A - (H-Pile + Grouting)		0	20-Jan-16 20-Jan-16 20-Jan-16	20-Jan-16 20-Jan-16 20-Jan-16	22-Jan-16 22-Jan-16	22-Jan-16 22-Jan-16 22-Jan-16		> Pile Ramp - BM07 B le > Pile Ramp - BM07 B - (H-Pile + Grouting)
061-4121Pre Bored H-Pile > Pile Ramp - BM07 B - (H-Pile + Grouting)061-4141Pre Bored H-Pile > Pile Ramp - BM08 A - (H-Pile + Grouting)061-4161Pre Bored H-Pile > Pile Ramp - BM08 B - (H-Pile + Grouting)		0 0 0	20-Jan-16 20-Jan-16 20-Jan-16 20-Jan-16	20-Jan-16 20-Jan-16 20-Jan-16 20-Jan-16	22-Jan-16 22-Jan-16 22-Jan-16	22-Jan-16 22-Jan-16 22-Jan-16 26-Jan-16		> Pile Ramp - BM07 B le > Pile Ramp - BM07 B - (H-Pile + Grouting) Pre Bored H-Pile > Pile Ramp - BM08 A - (H-Pile + Grouting)
1061-4121Pre Bored H-Pile > Pile Ramp - BM07 B - (H-Pile + Grouting)1061-4141Pre Bored H-Pile > Pile Ramp - BM08 A - (H-Pile + Grouting)1061-4161Pre Bored H-Pile > Pile Ramp - BM08 B - (H-Pile + Grouting)1061-4180Pre Bored H-Pile > Pile Ramp - BM06 A		0 0 0 0	20-Jan-16 20-Jan-16 20-Jan-16 20-Jan-16 20-Jan-16	20-Jan-16 20-Jan-16 20-Jan-16 20-Jan-16 20-Jan-16	22-Jan-16 22-Jan-16 22-Jan-16 26-Jan-16	22-Jan-16 22-Jan-16 22-Jan-16 26-Jan-16 26-Jan-16		 Pile Ramp - BM07 B Ie > Pile Ramp - BM07 B - (H-Pile + Grouting) Pre Bored H-Pile > Pile Ramp - BM08 A - (H-Pile + Grouting) Pile Ramp - BM08 B - (H-Pile + Grouting) re Bored H-Pile > Pile Ramp - BM06 A Pre Bored H-Pile > Pile Ramp - BM06 A - (H-Pile + Grouting)
1061-4121Pre Bored H-Pile > Pile Ramp - BM07 B - (H-Pile + Grouting)1061-4141Pre Bored H-Pile > Pile Ramp - BM08 A - (H-Pile + Grouting)1061-4161Pre Bored H-Pile > Pile Ramp - BM08 B - (H-Pile + Grouting)1061-4180Pre Bored H-Pile > Pile Ramp - BM06 A1061-4181Pre Bored H-Pile > Pile Ramp - BM06 A - (H-Pile + Grouting)		0 0 0 0 0	20-Jan-16 20-Jan-16 20-Jan-16 20-Jan-16 20-Jan-16 20-Jan-16	20-Jan-16 20-Jan-16 20-Jan-16 20-Jan-16 20-Jan-16 20-Jan-16	22-Jan-16 22-Jan-16 22-Jan-16 26-Jan-16 26-Jan-16	22-Jan-16 22-Jan-16 22-Jan-16 26-Jan-16 26-Jan-16 26-Jan-16		 Pile Ramp - BM07 B Ie > Pile Ramp - BM07 B - (H-Pile + Grouting) Pre Bored H-Pile > Pile Ramp - BM08 A - (H-Pile + Grouting) Pile Ramp - BM08 B - (H-Pile + Grouting) re Bored H-Pile > Pile Ramp - BM06 A
1061-4121Pre Bored H-Pile > Pile Ramp - BM07 B - (H-Pile + Grouting)1061-4141Pre Bored H-Pile > Pile Ramp - BM08 A - (H-Pile + Grouting)1061-4161Pre Bored H-Pile > Pile Ramp - BM08 B - (H-Pile + Grouting)1061-4180Pre Bored H-Pile > Pile Ramp - BM06 A1061-4181Pre Bored H-Pile > Pile Ramp - BM06 A - (H-Pile + Grouting)1061-4201Pre Bored H-Pile > Pile Ramp - BM06 B - (H-Pile + Grouting)		0 0 0 0 0 0 0	20-Jan-16 20-Jan-16 20-Jan-16 20-Jan-16 20-Jan-16 20-Jan-16 20-Jan-16	20-Jan-16 20-Jan-16 20-Jan-16 20-Jan-16 20-Jan-16 20-Jan-16	22-Jan-16 22-Jan-16 26-Jan-16 26-Jan-16 26-Jan-16 26-Jan-16	22-Jan-16 22-Jan-16 22-Jan-16 26-Jan-16 26-Jan-16 26-Jan-16		 Pile Ramp - BM07 B Ie > Pile Ramp - BM07 B - (H-Pile + Grouting) Pre Bored H-Pile > Pile Ramp - BM08 A - (H-Pile + Grouting) Pile Ramp - BM08 B - (H-Pile + Grouting) re Bored H-Pile > Pile Ramp - BM06 A Pre Bored H-Pile > Pile Ramp - BM06 A - (H-Pile + Grouting)
1061-4121Pre Bored H-Pile > Pile Ramp - BM07 B - (H-Pile + Grouting)1061-4141Pre Bored H-Pile > Pile Ramp - BM08 A - (H-Pile + Grouting)1061-4161Pre Bored H-Pile > Pile Ramp - BM08 B - (H-Pile + Grouting)1061-4180Pre Bored H-Pile > Pile Ramp - BM06 A1061-4181Pre Bored H-Pile > Pile Ramp - BM06 A - (H-Pile + Grouting)1061-4201Pre Bored H-Pile > Pile Ramp - BM06 B - (H-Pile + Grouting)1061-4220Pre Bored H-Pile > Pile Ramp - BM06 B - (H-Pile + Grouting)1061-4220Pre Bored H-Pile > Pile Ramp - BM05 A		0 0 0 0 0 0 0 0	20-Jan-16 20-Jan-16 20-Jan-16 20-Jan-16 20-Jan-16 20-Jan-16 20-Jan-16	20-Jan-16 20-Jan-16 20-Jan-16 20-Jan-16 20-Jan-16 20-Jan-16 22-Jan-16	22-Jan-16 22-Jan-16 26-Jan-16 26-Jan-16 26-Jan-16 26-Jan-16 17-Oct-16	22-Jan-16 22-Jan-16 26-Jan-16 26-Jan-16 26-Jan-16 26-Jan-16	221	 Pile Ramp - BM07 B Ie > Pile Ramp - BM07 B - (H-Pile + Grouting) Pre Bored H-Pile > Pile Ramp - BM08 A - (H-Pile + Grouting) Pile Ramp - BM08 B - (H-Pile + Grouting) re Bored H-Pile > Pile Ramp - BM06 A Pre Bored H-Pile > Pile Ramp - BM06 A - (H-Pile + Grouting) Pre Bored H-Pile > Pile Ramp - BM06 B - (H-Pile + Grouting)
061-4121Pre Bored H-Pile > Pile Ramp - BM07 B - (H-Pile + Grouting)061-4121Pre Bored H-Pile > Pile Ramp - BM08 A - (H-Pile + Grouting)061-4141Pre Bored H-Pile > Pile Ramp - BM08 B - (H-Pile + Grouting)061-4180Pre Bored H-Pile > Pile Ramp - BM06 A061-4181Pre Bored H-Pile > Pile Ramp - BM06 A - (H-Pile + Grouting)061-4201Pre Bored H-Pile > Pile Ramp - BM06 B - (H-Pile + Grouting)061-4220Pre Bored H-Pile > Pile Ramp - BM05 A061-4221Pre Bored H-Pile > Pile Ramp - BM05 A061-4221Pre Bored H-Pile > Pile Ramp - BM05 A		0 0 0 0 0 0 0 0 0 3 1	20-Jan-16 20-Jan-16 20-Jan-16 20-Jan-16 20-Jan-16 20-Jan-16 20-Jan-16 23-Jan-16	20-Jan-16 20-Jan-16 20-Jan-16 20-Jan-16 20-Jan-16 20-Jan-16 22-Jan-16 23-Jan-16	22-Jan-16 22-Jan-16 26-Jan-16 26-Jan-16 26-Jan-16 26-Jan-16 17-Oct-16 26-Dec-16	22-Jan-16 22-Jan-16 26-Jan-16 26-Jan-16 26-Jan-16 26-Jan-16 19-Oct-16	221 278	 Pile Ramp - BM07 B le > Pile Ramp - BM07 B - (H-Pile + Grouting) Pre Bored H-Pile > Pile Ramp - BM08 A - (H-Pile + Grouting) Pile Ramp - BM08 B - (H-Pile + Grouting) re Bored H-Pile > Pile Ramp - BM06 A Pre Bored H-Pile > Pile Ramp - BM06 A - (H-Pile + Grouting) Pre Bored H-Pile > Pile Ramp - BM06 B - (H-Pile + Grouting) Pre Bored H-Pile > Pile Ramp - BM06 B - (H-Pile + Grouting) Pre Bored H-Pile > Pile Ramp - BM06 B - (H-Pile + Grouting)
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1061-4120Pre Bored H-Pile > Pile Ramp - BM07 B1061-4121Pre Bored H-Pile > Pile Ramp - BM07 B - (H-Pile + Grouting)1061-4141Pre Bored H-Pile > Pile Ramp - BM08 A - (H-Pile + Grouting)1061-4161Pre Bored H-Pile > Pile Ramp - BM08 B - (H-Pile + Grouting)1061-4180Pre Bored H-Pile > Pile Ramp - BM06 A1061-4181Pre Bored H-Pile > Pile Ramp - BM06 A - (H-Pile + Grouting)1061-4201Pre Bored H-Pile > Pile Ramp - BM06 B - (H-Pile + Grouting)1061-4220Pre Bored H-Pile > Pile Ramp - BM06 A - (H-Pile + Grouting)1061-4221Pre Bored H-Pile > Pile Ramp - BM05 A1061-4221Pre Bored H-Pile > Pile Ramp - BM05 B1061-4240Pre Bored H-Pile > Pile Ramp - BM05 B1061-4241Pre Bored H-Pile > Pile Ramp - BM05 B - (H-Pile + Grouting)1061-4260Pre Bored H-Pile > Pile Ramp - BM05 B - (H-Pile + Grouting)1061-4261Pre Bored H-Pile > Pile Ramp - BM05 B - (H-Pile + Grouting)		0 0 0 0 0 0 0 0 0 0 3 1 1 3 1	20-Jan-16 20-Jan-16 20-Jan-16 20-Jan-16 20-Jan-16 20-Jan-16 20-Jan-16 23-Jan-16 23-Jan-16 27-Jan-16	20-Jan-16 20-Jan-16 20-Jan-16 20-Jan-16 20-Jan-16 20-Jan-16 22-Jan-16 23-Jan-16 26-Jan-16 29-Jan-16	22-Jan-16 22-Jan-16 26-Jan-16 26-Jan-16 26-Jan-16 26-Jan-16 17-Oct-16 26-Dec-16 20-Oct-16 26-Dec-16 24-Oct-16	22-Jan-16 22-Jan-16 26-Jan-16 26-Jan-16 26-Jan-16 26-Jan-16 19-Oct-16 26-Dec-16 22-Oct-16 26-Dec-16 26-Oct-16	221 278 221 275 221	 Pile Ramp - BM07 B Ie > Pile Ramp - BM07 B - (H-Pile + Grouting) Pre Bored H-Pile > Pile Ramp - BM08 A - (H-Pile + Grouting) Pile Ramp - BM08 B - (H-Pile + Grouting) re Bored H-Pile > Pile Ramp - BM06 A Pre Bored H-Pile > Pile Ramp - BM06 A - (H-Pile + Grouting) Pre Bored H-Pile > Pile Ramp - BM06 B - (H-Pile + Grouting) Pre Bored H-Pile > Pile Ramp - BM06 A - (H-Pile + Grouting) Pre Bored H-Pile > Pile Ramp - BM05 A - (H-Pile + Grouting) Pre Bored H-Pile > Pile Ramp - BM05 A - (H-Pile + Grouting) Pre Bored H-Pile > Pile Ramp - BM05 A - (H-Pile + Grouting) Pre Bored H-Pile > Pile Ramp - BM05 B - (H-Pile + Grouting) Pre Bored H-Pile > Pile Ramp - BM05 B - (H-Pile + Grouting) Pre Bored H-Pile > Pile Ramp - BM05 B - (H-Pile + Grouting)
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Remaining Work

Critical Remaining Work

Three Months Rolling	J Programme (20 Jan 2015 to 1	9 Apr 2016)

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ID	Activity Name	emainir Juratio		Early Finish	Late Start	Late Finish	Total Float	E 2016 February Aarch
1061-4281	Pre Bored H-Pile > Pile Ramp - BM04 B - (H-Pile + Grouting)	1	03-Feb-16	03-Feb-16	26-Dec-16	26-Dec-16	269	7 24 31 07 14 21 28 06 13 I Pre Bored H-Pile > Pile Ramp - BM04 B - (H-Pile + Grouti
	Pre Bored H-Pile > Pile Ramp - BM03 A	3				02-Nov-16		Pre Bored H-Pile > Pile Ramp - BM03 A
	Pre Bored H-Pile > Pile Ramp - BM03 A - (H-Pile + Grouting)	1				26-Dec-16		Pre Bored H-Pile > Pile Ramp - BM03 A - (H-Pile + G
	Pre Bored H-Pile > Pile Ramp - BM03 B	3				05-Nov-16		Pre Bored H-Pile > Pile Ramp - BM03 B
	Pre Bored H-Pile > Pile Ramp - BM03 B - (H-Pile + Grouting)	1				26-Dec-16		□ Pre Bored H-Pile > Pile Ramp - BM03 B - (
	Pre Bored H-Pile > Pile Ramp - BS16 A - (H-Pile + Grouting)	0			26-Jan-16			Pre Bored H-Pile > Pile Ramp - BS16 A - (H-Pile + Grouting)
1061-4361	Pre Bored H-Pile > Pile Ramp - BS16 B - (H-Pile + Grouting)	0			26-Jan-16			Pre Bored H-Pile > Pile Ramp - BS16 B - (H-Pile + Grouting)
	Pre Bored H-Pile > Pile Ramp - BS15 B - (H-Pile + Grouting)	0			26-Jan-16			Pre Bored H-Pile > Pile Ramp - BS15 B - (H-Pile + Grouting)
	Pre Bored H-Pile > Pile Ramp - BS14 A	3				09-Nov-16	221	Pre Bored H-Pile > Pile Ramp - BS14 A
	Pre Bored H-Pile > Pile Ramp - BS14 A - (H-Pile + Grouting)	1				26-Dec-16		Pre Bored H-Pile > Pile Ramp - BS14
	Pre Bored H-Pile > Pile Ramp - BS14 B	3				12-Nov-16		Pre Bored H-Pile > Pile Ramp - BS1
	Pre Bored H-Pile > Pile Ramp - BS14 B - (H-Pile + Grouting)	1				26-Dec-16		□ Pre Bored H-Pile > Pile Ramp - BS
	Pre Bored H-Pile > Pile Ramp - BN11 A	3				16-Nov-16		Pre Bored H-Pile > Pile Ramp
	Pre Bored H-Pile > Pile Ramp - BN11 A - (H-Pile + Grouting)	1				26-Dec-16		Pre Bored H-Pile > Pile Ramp
	Pre Bored H-Pile > Pile Ramp - BN11 B	3				19-Nov-16		Pre Bored H-Pile > Pile Ra
	Pre Bored H-Pile > Pile Ramp - BN11 B - (H-Pile + Grouting)	1				26-Dec-16		Pre Bored H-Pile > Pile R
	Pre Bored H-Pile > Pile Ramp - BN12 A	3				23-Nov-16		Pre Bored H-Pile > P
	•	1				26-Dec-16		Pre Bored H-Pile >
	Pre Bored H-Pile > Pile Ramp - BN12 A - (H-Pile + Grouting) Pre Bored H-Pile > Pile Ramp - BN12 B	3				26-Nov-16		Pre Bored H-Pile
	Pre Bored H-Pile > Pile Ramp - BN12 B - (H-Pile + Grouting)	1				26-Dec-16		Pre Bored H-Pil
	Pre Bored H-Pile > Pile Ramp - BN13 A	3				30-Nov-16		
	Pre Bored H-Pile > Pile Ramp - BN13 A - (H-Pile + Grouting)	1				26-Dec-16		Pre Bored
	Pre Bored H-Pile > Pile Ramp - BN13 B	3				03-Dec-16		
	Pre Bored H-Pile > Pile Ramp - BN13 B - (H-Pile + Grouting)	1				26-Dec-16		
	Pre Bored H-Pile > Pile Ramp - BN01 A	3				07-Dec-16		Pr
	Pre Bored H-Pile > Pile Ramp - BN01 A - (H-Pile + Grouting)	1				26-Dec-16		1 U
	Pre Bored H-Pile > Pile Ramp - BN01 B	3				10-Dec-16		
	Pre Bored H-Pile > Pile Ramp - BN01 B - (H-Pile + Grouting)	1				26-Dec-16		
	Pre Bored H-Pile > Pile Ramp - BN05 A	3				14-Dec-16		
	Pre Bored H-Pile > Pile Ramp - BN05 A - (H-Pile + Grouting)	1	23-Mar-16	23-Mar-16	26-Dec-16	26-Dec-16	230	
	Pre Bored H-Pile > Pile Ramp - BN05 B	3				17-Dec-16		
061-4641	Pre Bored H-Pile > Pile Ramp - BN05 B - (H-Pile + Grouting)	1	29-Mar-16	29-Mar-16	26-Dec-16	26-Dec-16	227	
061-4660	Pre Bored H-Pile > Pile Ramp - BN06 A	3	29-Mar-16	31-Mar-16	19-Dec-16	21-Dec-16	221	
061-4661	Pre Bored H-Pile > Pile Ramp - BN06 A - (H-Pile + Grouting)	1	01-Apr-16	01-Apr-16	26-Dec-16	26-Dec-16	224	
061-4680	Pre Bored H-Pile > Pile Ramp - BN06 B	3	01-Apr-16	05-Apr-16	22-Dec-16	24-Dec-16	221	
061-4681	Pre Bored H-Pile > Pile Ramp - BN06 B - (H-Pile + Grouting)	1	06-Apr-16	06-Apr-16	26-Dec-16	26-Dec-16	221	
061-4700	Remaining Bored Piles & Pre-Bored H-Pile Testing	30	12-Mar-16	19-Apr-16	19-Jan-17	24-Feb-17	260	
061-4710	Complete Bored H-Piles Within Trough A Excl.Portion IIB	0		27-Feb-16		26-Dec-16	251	◆ Complete Bored H-Piles
061-4720	Complete Bored All H-Piles Excl.Portion IIB	0		06-Apr-16		26-Dec-16	221	
41560	STAGE 2 ELS WORKS ALONG OIL STREET & HOTEL CARPARK - Resubmission complete	0		30-Jan-16		30-Jan-16	0	♦ STAGE 2 ELS WORKS ALONG OIL STREET & HOTEL CARPA
S 061-1205	Clearing up areas, Remove Excavated Materials, etc	8	20-Jan-16	28-Jan-16	16-May-16	24-May-16	94	Clearing up areas, Remove Excavated Materials, etc
	Drive Sheet Pile for Trough A (excl IIB) - Appr. Ramp > (CH5241.07) Cross West-Side					10-Jun-16	91	Drive Sheet Pile for Trough A (exc
	Drive Sheet Pile for Trough A (excl IIB) - Appr. Ramp >(CH5331.984 - CH5301.68) N-Side (incl Pre-boring)	14			11-Jun-16		91	Drive Sheel
	Drive Sheet Pile for Trough A (excl IIB) - Appr. Ramp > (CH5301.68 - CH5271.6) N-Side (incl Pre-boring)	14			28-Jun-16		91	
	Drive Sheet Pile for Trough A (excl IIB) - Appr. Ramp > (CH5271.6 - CH5241.07) N-Side (incl Pre-boring)				15-Jul-16		91	
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Remaining Level of Effort Milestone		
Actual Level of Effort	Contract UV/2000/40	
Actual Work	Contract HY/2009/19	
Remaining Work	Three Months Rolling Programme (20 Jan 2015 to 19 Apr 2016)	
Critical Remaining Work		

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	20		27	03	10	17	24	01
utin	g)							
Gr	outing)							
(H	-Pile +	Gro	outing)					
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A	- (H-Pi	le ·	+ Grouti	ng)				
514	B							
S1	4 B - (H-ŀ	Pile + Gr	outing)				
p -	BN11	A						
np	- BN11	Â	- (H-Pi	le + Grouti	ng)			
	np - BN							
	-			H-Pile + G	routing)			
Pile	e Ramp) -	BN12 A	\				
P	le Ran	np -	BN12	A - (H-Pil	e + Grouti	ng)		
			np - BN					
Pile	> Pile	Ra	mp - BN	N12 B-(H	I-Pile + Gi	routing)		
H-	Pile > I	Pile	Ramp	- BN13 A				
d⊦	I-Pile >	Pi	le Ramp	- BN13	A - (H-Pile	e + Groutii	ng)	
				mp - BN1				
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3or	ed H-P	ile	> Pile R	amp - BN	113 B-(H	I-Pile + Gr	outing)	
Pre	Bored	H-	Pile > P	ile Ramp -	BN01 A			
Pr	e Bore	dH	I-Pile > I	Pile Ramp	- BN01 A	- (H-Pile	+ Groutin	ig)
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	F	re	Bored H	I-Pile > Pi	le Ramp -	BN05 A		
		Pr	e Bored	H-Pile > F	Pile Ramp	- BN05 A	- (H-Pile	+ Gro
				ored H-Pile				
			l Pr	e Bored H	-Pile > Pile	e Ramp -	BN05 B -	(H-Pi
				Pre Borec	H-Pile >	Pile Ramp	o - BN06 A	4
				Pre Bore	d H-Pile >	Pile Ran	1p - BN06	A - (I
				Pre	Bored H	Pile > Pile	Ramn - I	BN06
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cl I	IB) - Ap	opr	Ramp	> (CH524	1.07) Cros	s West-Si	de	
				excl IIB) -				CH5
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		ט 	rive She	et Pile for	Irough A	(exci IIB)	- Appr. R	amp >
]				Dr	ive Sheet	Pile for Tr	ough
cl I	IB) - Ap	opr	Ramp	> (CH533	1.984) Cro	ss East-S	ide	



ctivity ID	Activity Name		Early Start	Early Finish	Late Start	Late Finish	Total	2016
		Juration					Float	February March 7 24 31 07 14 21 28 06 13
1061-1340	Drive Sheet Pile for Trough A (excl IIB) - Appr. Ramp > (CH5331.984 - CH5301.68) S-Side	12	20-Feb-16	05-Mar-16	21-Jun-16	05-Jul-16	99	Drive Sheet Pile
1061-1360	Drive Sheet Pile for Trough A (excl IIB) - Appr. Ramp > (CH5301.68 - CH5271.6) S-Side	12	05-Mar-16	19-Mar-16	06-Jul-16	19-Jul-16	99	
1061-1380	Drive Sheet Pile for Trough A (excl IIB) - Appr. Ramp > (CH5271.6 - CH5241.07) S-Side	12	19-Mar-16	06-Apr-16	20-Jul-16	02-Aug-16	99	
1061-1390	Install H-Pile King Post	14	26-Jan-16	13-Feb-16	05-Jul-16	20-Jul-16	130	Install H-Pile King Post
1061-1395	Sheet Piles Toe Grouting / Grout Curtain Pier D10 - D07	40	26-Feb-16	16-Apr-16	20-Jun-16	05-Aug-16	93	
1061-1397	Install recharge well/observation well/piezometer	13	01-Apr-16	18-Apr-16	21-Jul-16	04-Aug-16	91	
1061-1400	Install Dewatering System & Monitoring Points (excl IIB) - Appr. Ramp > Pier D07-D10	13	01-Apr-16	18-Apr-16	21-Jul-16	04-Aug-16	91	
1061-1455	Pumping test	12	18-Apr-16	02-May-16	06-Aug-16	19-Aug-16	92	
Structure								
1061-1850	Move Stock Piles of Cages/Materials to Other Location - Complete	0		23-Jan-16		23-Jan-16	0	Move Stock Piles of Cages/Materials to Other Location - Complete
1061-1860	Construct Retaining Wall E Pile Cap (7 nos)	28	25-Jan-16	29-Feb-16	24-Oct-16	24-Nov-16	223	Construct Retaining W
1061-1900	Construct Retaining Wall E Bay 1 & Portion of Wall F	18	01-Mar-16	21-Mar-16	25-Nov-16	15-Dec-16	223	
1061-1920	Construct Retaining Wall E Bay 2 & Portion of Wall F	18	22-Mar-16	14-Apr-16	16-Dec-16	05-Jan-17	223	
1061-1940	Construct Retaining Wall E Bay 3 & Portion of Wall F	18	01-Mar-16	21-Mar-16	16-Dec-16	05-Jan-17	241	
Landscape De	eck							
1061-1880	Construct LD Middle Pile Cap (7nos)	24	01-Mar-16	30-Mar-16	09-Dec-16	05-Jan-17	235	
11 - SECTIO	N 11 OF THE WORKS							
11.2 - Roadwo	rks							
1110-2790	Watermains at Portion XIIA - Stage 11 (motor cycle parking)	0	20-Jan-16	20-Jan-16	19-Jan-16	19-Jan-16	0	Watermains at Portion XIIA - Stage 11 (motor cycle parking)
1110-2800	Watermains at Portion XIIA - Testing & commissioning of Watermains	4	20-Jan-16	23-Jan-16	20-Jan-16	23-Jan-16	0	Watermains at Portion XIIA - Testing & commissioning of Watermains
1110-2810	Watermains at Portion XIIA - Reinstatement of Pavement at connection Pt.	4	25-Jan-16	28-Jan-16	25-Jan-16	28-Jan-16	0	Watermains at Portion XIIA - Reinstatement of Pavement at connect

Remaining Level of Effort Milestone		
Actual Level of Effort	Contract UV/2000/40	
Actual Work	Contract HY/2009/19	
Remaining Work	Three Months Rolling Programme (20 Jan 2015 to 19 Apr 2016)	
Critical Remaining Work		

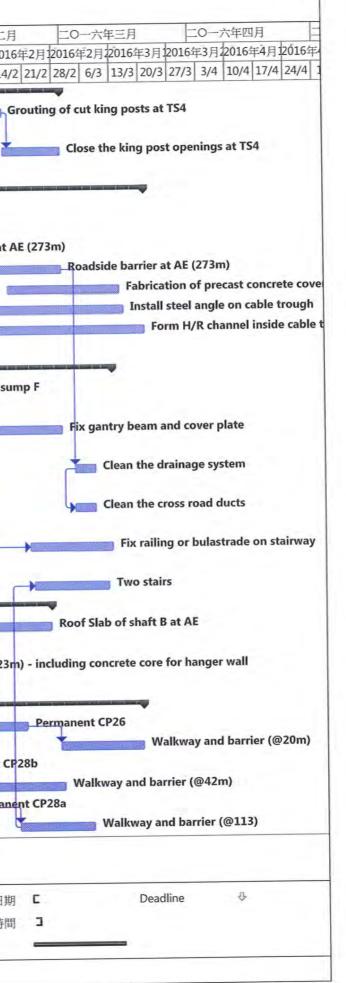
ch		07		Apr		0.1	May
	20	27	03	10	17	24	01
ile f	or Trough	A (exc	l IIB) - Appr	. Ramp >	(CH5331	.984 - CH	5301
	Drive St	neet Pil	e for Trough	A (excl I	IB) - Annr	Ramn >	(CH5
[Dr	ive Sheet	Pile for T	rough A (excl II
					Sheet P	iles Toe G	routin
					<u></u>		
					Instal	I recharge	e well/
					Instal	I Dewater	ing S
							– P
Wa	II E Pile C	ap (7 n	os)				
	Cons	truct Re	etaining Wa	ll E Bay 1	& Portior	n of Wall F	;
					Construct	Retaining	Wall
	Cons	truct Re	etaining Wa	ll E Bay 3	& Portior	n of Wall F	:
						(7)	
			Construct LI		Plie Cap	(/nos)	
nec	tion Pt.						

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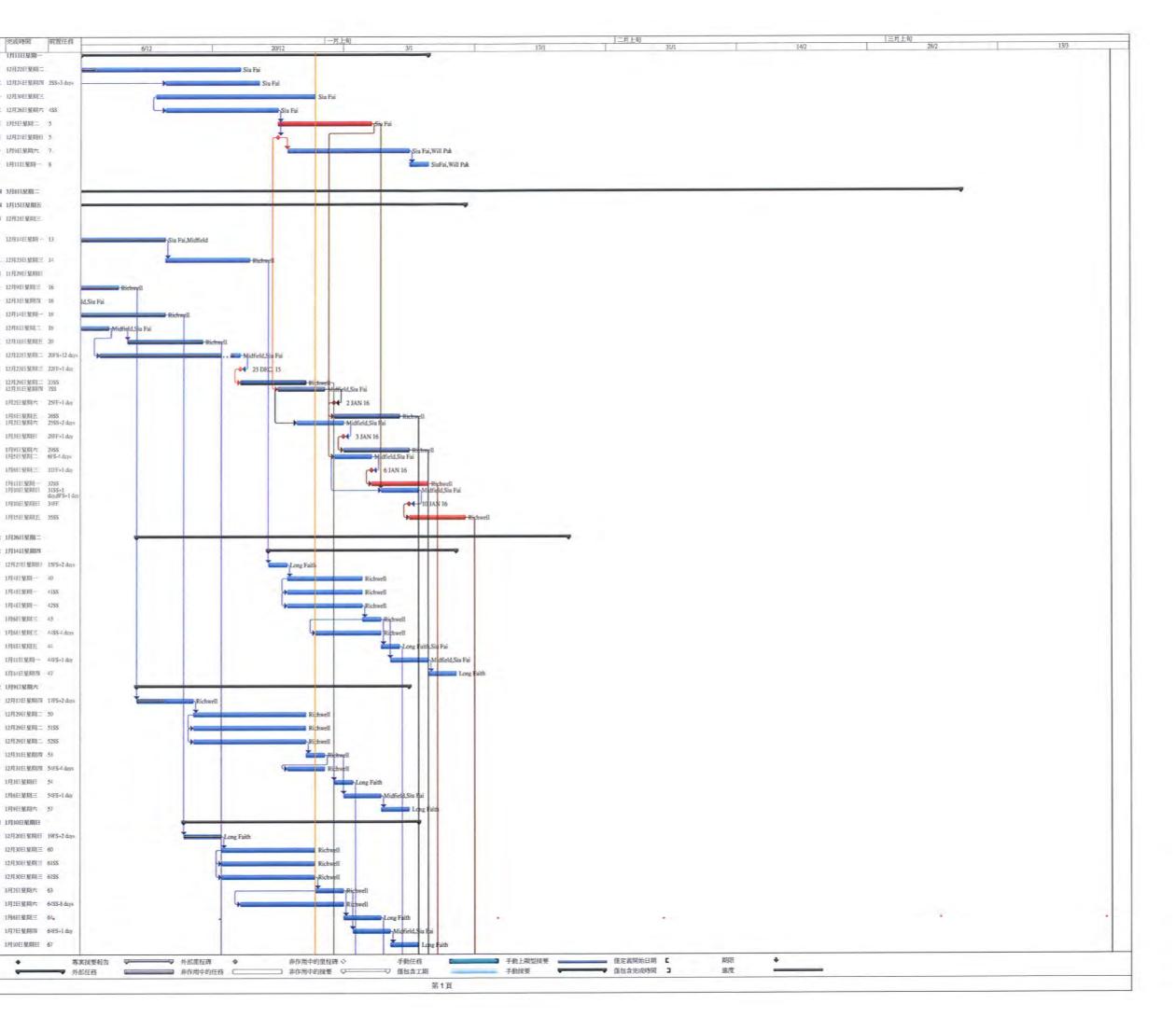
h Fiel and		工期	開始時間	完成時間	前置任務	LO-五年十一月 LO-五年十二月 LO-六年一月 LO-六年
切碼	Task Name	工物		J D JACK S 100	11 B L M	E10月2015年11月2015年11月2015年12月2015年12月2016年1月2016年1月2016年1月
						1/11 8/11 15/1122/1129/11 6/12 13/1220/1227/12 3/1 10/1 17/1 24/1 31/1 7/2
1	King Post at TS4 and TPCWAE	37 days	1月13日星期三	2月29日星期一		
2	Grouting of cut king posts (hollow rectangular shape) left on base slab and roof slab at TS4	25 days	1月13日星期三	2月15日星期-		
3	Close the King post openings on OHVD slab at TS4	12 days	2月16日星期二	2月29日星期	2	
4	Cable trough at TS4 of TPCWAE (not included remaining OHVD areas and shaft D)	114 days	11月4日星期三	3月20日星期日	-	
5	Site clearance inside TPCWAE (near shaft A, B & C)	61 days	11月4日星期三	1月16日星期六		Site clearance at AE
6	Construction of walkway at TPCWAE	25 days	1月2日星期六	1月30日星期六	5FS-31 days	Walkway
7	Construction of roadside barrier at TPCWAE	39 days	1月11日星期一	2月29日星期-	- 6SS+7 days	
8	Fabrication of precast concrete covers at TS4 and TPCWAE	25 days	2月17日星期三	3月14日星期-	-	
9	Install steel angle on cable trough	60 days	1月4日星期一	3月15日星期二	655	
10	Form the half round channel on inverted slab/ inside cable trough	50 days	1月21日星期四	3月20日星期日	9SS+15 days	
11	Other outstanding works	106 days	11月4日星期三	3月12日星期プ	7	
12	Cleaning of pump sump F	70 days	11月4日星期三	1月27日星期日		Clean pum
13	Fabrication of gantry beam in workshop	18 days	1月18日星期一	2月5日星期日	ī	
14	Fix gantry beam and cover plates inside pump sump F	15 days	2月6日星期六	2月29日星期-	- 13	
15	Cleaning of drainage system for CCTV survey at TS4 and TPCWAE	5 days	3月4日星期五	3月8日星期二	7FS+3 days	
16	Vertification of blockage at all cross road ducts at TS4 and TPCWAE	5 days	3月4日星期五	3月8日星期日	1555	
17	Fix railing or bulastrade on stairway at SR8 of TS4	19 days	2月22日星期一	3月12日星期7	⊼14SS+8 days	s
18	Construction of two stairs adjacent to CP28a and CP28b	17 days	2月23日星期二	3月11日星期3	5 29SS+3 days	5
19	Closing of roof slab at shaft A and B of TPCWAE	25 days	1月25日星期一	2月26日星期3	5	
20	Construction of roof slab at shaft B	25 days	1月25日星期一	2月26日星期3	E .	
21	Remaining OHVD slab at TS4 and TPCWAE	35 days	12月7日星期一	1月19日星期	-	
22	Construction of OHVD slab at Area B (SR8 and WB of TPCWAE)	35 days	12月7日星期一	1月19日星期	-	OHVD at Area B
23	Reinstatement of three permanent CP at TPCWAE and TS4	56 days	1月13日星期三	3月19日星期7	7	
24	Reduce wall opening for CP26	14 days	1月31日星期日	2月20日星期	☆ 22FS+10 day	ys
25	Remaining walkway and roadside barrier	20 days	2月29日星期一	3月19日星期;	六24FS+6 days	s Permane
26	Reduce wall opening for CP28b	14 days	1月13日星期三	1月28日星期	-	
27	Remaining walkway and roadside barrier	16 days	2月5日星期五		- 26FS+7 days	Por
28	Reduce wall opening for CP28a	14 days	1月21日星期四		四 26SS+7 days	S
29	Remaining walkway and roadside barrier	16 days	2月19日星期五	3月7日星期·	- 28FS+7 days	S
_	Task		Summary	V	非作用	用中的里程碑 ◇ 僅包含工期 僅定義開始
	ct:040116 programme for remaining work		Project Summ	ary 🗸	→ 非作用	用中的摘要 🗸 手動上顯型摘要 🖷 僅包含完成
Date: 4	4/1/2016 Milestone		非作用中的任何		手動(任務 F動摘要 Progress

Remaining works at TS4 and AE

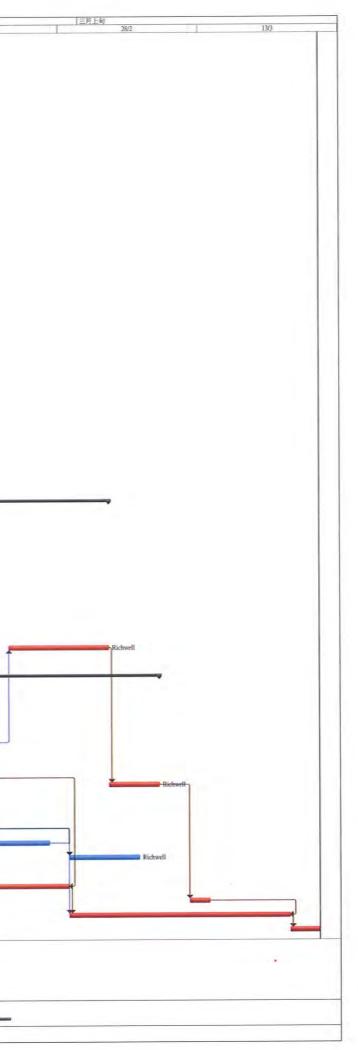
Sheet 1 of 1



別時	0	任務名稱	工期	開始時間 12月6日早期日
1		TPCWAE/ TPCWAW Bukhead Removal	36 days	
2		E/B Bulkhead Breakthrough (800m3)	17 days	12月6日星期日
3		E/B Skin Wall Removal and Breakthrough (500 m3)	10 days	12月15日星期二
4		W/B Bolkhead Breakthrough (1000 m3)	17 days	12月14日星期一
5		Erection of Steel Frame under Sheft B (50 ton)	12 days	12月15日星期二
6	1	W/B Skin Wall Removal and Breakthrough (500 m3)	9 days	12月27日星期日
7		No lifting point for rock excevation inside AW	1 day	12月27日星期日 12月28日星期一
8		Rock escavation out from Shaft B (-2.000m3)	12 days	
9		Demobilize all breakers and backhoes at Shaft B	2 dzys	1月10日星期日
10		OCT Sincture	105 days	11月19日星期四
12		Base Slab (9500m3 approx.)	57 days	11月19日星期四
13		Handower of Bulkhead Wall from WDEI (Coupler Joint Checking, Bestonite Cleaning)	14 days	11月19日星期四
14	~	Vertical Blinding and Waterproofing of Bay B1 (includes test and inspection), Drill and Fix Rebut	12 days	12月3日星期四
15		Delay Start of Bay B1 (E2m, 1116 m3) - Original by 21-11-2015	y 9 days	12月15日星期二
16		Vertical Blinding and Waterproofing of Bay B2 (Includes test and inspection)	4 days	11月26日星期四
7	~	Bay B2 (11m, 865 m3)	10 days	11月30日星期一
18	~	Vertical Blinding and Waterproofing of Bay B3 (includes test and inspection)	4 days	11月30日星期一
19	~	Bay B3 (15m, 1196 m3)	11 days	12月4日星期五
20	~	Vertical Blinding and Waterproofing of Bay B4 (includes test and inspection)	5 days	12月4日星期五
21	~	Bay B4 (14m, 1193 m3)	8 days	12月11日星期五
22		Vertical Blinding and Waterproofing of Bay B5 (includes test and inspection)	14 days	12月8日星期二
23	1	Handover Date for structural work for Bay 5	1 day	12月23日星期三
M 25		Bay B5 (14.95m, 1224 mJ) Vertical Blinding and Waterproofing of Bay B6	7 days 5 days	12月23日星期三 12月27日星期日
26	-	(includes test and inspection) Handover Date for structural work for Boy 6	Iday	1月2日星翔六
7	31	Bay B6 (11.2m, 1161 m3)	7 days	1月2日星期六
8	1	Vertical Binding and Waterproofing of Bay B7 (includes test and inspection)	4 days	12月29日星期二
19		Handover Date for structural work for Bay 7	149	1月3日星期日
0		Bay B7 (10.8m, 1135 m3) Vertical Blinding and Waterproofing of Bay B8	7 days 4 days	1月3日星期日 1月2日星期六
2		(includes test and inspection) Handover Date for structural work for Bay 8	1 day.	1月6日星期三
3	-	Bay B8 (10.8m, 1153 m3)		1月6日星期三
4		Vertical Blinding and Waterproofing of Bay B9 (includes test and inspection)	4 days	1月7日星期度
5		Handover Date for structural work for Bay 9	1 dzy 6 dzys	1月10日星時日
7	1	Bay B9 Stitching (Sm. 900 m3)		
8		Wall of Tunnel Structure (4000m3)	45 days	12月12日星期六
9		Bay 1 Wall and Associate Strut Removal Works (\$1,2,5,6,24)	19 days	12月26日星期六
0.		Removal of 6th layer ELS Statt and Bodding (S24)	2 days	12月26日星期六
1	1	Bay I WOI (12m) - Concreting to -24.0 mPD	7 days	12月25日星間一
2		Bay 1 W02 (12m) - Concreting to -24.0 mPD	7 days	12月28日星期-
13	1	Bay 1 W03 (12m) - Concreting to -24.0 mPD	7 days 2 days	12月28日星期一 1月5日星期二
4		Curing and Formwork Removal		12月31日星期四
5		Construction of Maintenance Walkway and Profile Barrier Installation of Repropping at -25.5 mPD	6 days 2 days	1月7日星期四
7		Waterproof and backfil	4 days	1月8日星期五
8			3 days	1月12日星期二
9		Removal of 5th layer ELS Strat and Bodding (S1.2.5.6.24) Bay 2 Wall and Associate Strat Removal Works		12月12日星期六
50		(\$3,4,7,8,25) Removal of 6th layer ELS Strat and Bedding	6 days	12月12日星期六
1	1	(S25) Bay 2 W01 (11m) - Concreting to -24.0 mPD	12 days	12月18日星期五
2		Bay 2 W02 (11m) - Concreting to -24.0 mPD	12 days	12月18日星期五
53		Bay 2 W03 (11m) - Concreting to -24.0 mPD	12 days	12月18日星期五
14		Curing and Formwork Removal	2 days	12月30日星期三
5		Construction of Maintenance Walkway and	4 days	12月28日星期一
6		Profile Barrier Installation of Repropping at -25.5 mPD	2 days	1月2日星期六
7		Waterproof and backfill	4 days	1月3日星期日
8		Removal of 5th layer ELS Strut and Bedding	3 days	1月7日星期四
99		(S3,4,7,8,25) Bay 3 Wall and Associate Strut Removal Works	24 days	12月17日星期四
0	1	(\$9,10) Removal of 6th layer ELS Strat and Bedding (\$1	0) 4 days	12月17日星期四
il	1	Bay 3 W01 (15m) - Concreting to -24.0 mPD	10 days	12月21日星翔一
62	1	Bay 3 W02 (15m) - Concreting to -24.0 mPD	10 days	12月21日星期一
53	1	Bay 3 W03 (15m) - Concreting to -24.0 mPD	10 days	12月21日星期一
54	1	Curing and Formwork Removal	2 days	12月31日星期四
65		Construction of Maintenance Walkway and Profile Barrier	10 days	12月23日星期三
66	1	Installation of Repropping at -25.5 mPD	4 days	1月3日星期日
67	1	Waterproof and backfill	4 days	1月4日星期一
68	1	Removal of 5th layer ELS Strut and Bedding (\$9,10)	3 days	1月8日星期五
-				



時 0	任務名稱	工期	開始時間	完成時間	育宜任務	6/12	20/12 一月上旬	3/1	17/1	31/1	
2	Bay 4 Wall and Associate Strut Removal Works (S11)		12月21日星期一		-	T.					
1	Bay 4 W01 (15m) - Concreting to -24.0 mPD	8 days		12月28日星期一			Richwell				
1	Bry 4 W02 (15m) - Concreting to -24.0 mPD	8 days		12月28日星期-			Richwell				
1	Bay 4 W03 (15m) - Concreting to -24.0 mPD	8 days	12月21日星期一	12月28日星期一	21FS+2 days		Richwell				
1	Curing and Formwork Removal	2 days	12月29日星期二	12月30日星阴三	72		- gichwell				
1	Construction of Maintenance Walkowy and Profile Barrier	10 days	12月21日星期一	12月30日星期三	7317	in the second	Richwell				
	Installation of Repropping at -25.5 mPD	4 dzys	12月31日星期四	1月4日星期一	73		Long Faith				
-	Waterproof and backfill	4 days	1月2日星期六	1月5日星期二	73FS+1 day		Minfred	t,Siu R ai			
-	Removal of 5th layer ELS Statt and Bedding	3 days	(月10日夏朝日)	1月12日星期二	76FS+4 days			Long Faith			
3	(S11) Bay 5 Wall (15m)	10 days	1月2日星開六								
				1月9日星期六	NTS 1 days		1 f	Rithwell			
9	Bay 5 W01 (15m)	S days					t l				
0	Bay 5 W02 (15m)	8 4235		1月9日星崩六			+	Rithweil			
1	Bay 5 W03 (15m)	8 4:35		1月9日星期六				Richsen			
2	Construction of Maintenance Walkway and Profile Barrier	4 days	1月8日星期五	1月11日星树一	8IFF+2 days			Richwell			
3	Bay 6 Wall (12.5m)	9 days	1月11日星期一	1月19日星間二	Sec. 201						
1	Bay 6 W01 (12.5m)	7 40.85	1月11日星期一	1月17日星期日	27FS+2 days			T T	Richwell		
	Bay 6 W02 (12.5m)	7 dzys	1月11日星期一	1月17日星期日	2/FS+2 days				Richwell		
	Bay 6 W03 (12.5m)	7 days	1月11日星期一	1月17日星期日	27FS+2 days			+	Richwell		
	Construction of Maintenance Walkway and	4.days		1月19日星期二					Richwell		
	Profile Barrier	10 days		1月21日星期四							
8	Bay 7 Wall (12m)								Richmell		
	Bay 7 W01 (12m)	8 days		1月19日星期二				+	Richwell		
0	Bay 7 W02 (12m)	S days		1月19日星期二					Richwell		
1	Bay 7 W05 (12m)	8 days	1月12日星期二	1月19日星期二	30FS+2 days				Richwell		
2	Construction of Maintenance Walkway and Profile Barrier	4歲95	1月18日星期一	1月21日星期四	91FF+2 days				Richwell		
3	Bay 8 Wall (12m)	10 days	1月13日星期三	1月22日星期五							
4	Bay 8 W01 (12m)	8 days	1月13日星期三	1月20日星期三	33FS+1 day				Richwell		
95 96 97	Bzy S W02 (12m) Bzy S W03 (12m)	8 days 8 days	1月13日星期三	1月20日星期三 1月20日星期三	33FS+1 dzy				Richwell		
-	Construction of Maintenance Walkway and Profile Barrier	4 days	1月19日星翔二	1月22日星期五	96FF+2 days				Richwell		
8	Bay 9 Wall (Sm)	10 dzys	1月17日星期日	1月26日星期二							
9	Bay 9 W01 (Sm)	S days S days	1月17日星期日 1日37日日月8日	1月24日星期日 1月24日星期日	36FS-1 day 36FS-1 day			1	Richwell		
99 00 01	Bzy 9 W01 (Sm) Bzy 9 W01 (Sm)	8 days 8 days	1月17日星期日	1月24日星期日	36FS+1 day				Richwell		
2	Construction of Maintenance Walkway and Profile Barrier	4 days	1月25日星期六	1月26日星期二	swirs-2 days				Ka	1.0	
13											
14	OHVD	55 days	1月4日星期一	3月3日星期四							
5	Bay R1 OHVD and Kicker Wall (Falsework and Formwork Erection)	12 days	1月9日星际六	1月20日星期三	45			2	Richwell		
16	Bay R2 OHVD and Kicker Wall (Falsework and	12 days	1月4日星期一	1月15日星期五	56		*	Richwe	1		
17	Formwork Erection) Bay R3 OHVD and Kicker Wall (Falsework and	12 days		1月18日星期-			±		Richwell		
18	Formwork Erection) Bay R4 OHVD and Kicker Wall (Falsework and			1月16日星期六			+	Ric	well		
	Formwork Erection)			1月21日星期四				+			
19	Bay RS OHVD and Kicker wall (Falsework and Formwork Erection)								Rich		
0 1	Bay 86 OHVD and Kicker Wall (Felsework and Formwork Erection)		1月18日星期一								
1	Bay R7 OHVD and Kicker Wall (Falsework and Formwork Erection)	9 days	1月20日星期三	1月28日星期四	91			- 12		Richwell	
2	Bay RS OHVD and Kicker Wall (Falsework and Formwork Erection)	9 days	1月22日星期五	1月30日星期六	97FS-1 day				*	Richwell	
3	Bay R9 OHVD and Kicker Wall (Falsework and	9 days	1月25日星期一	2月2日星翔二	102FS-2 days				-	Richwell	
4	Formwork Erection) Bay R10 OHVD and Kicker Wall (Falsework and	10 days	2月23日星期二	3月3日星期四	121FS+17						
5	Formwork Erection)				dzys						
6	Top Slab (12790m3)	48 days	1月16日星際六	3月8日星閉二							
	Bay R1	12 days		2月1日星期一					*	Richwell	
7 8	Bay Ki Boy R2(partial)	10 days	1月16日星期六	1月25日星期一	106			-	Richwell		
9	Boy R3	10 days	1月19日星期二	1月28日星期四	307				2	Richwell	
	Bay R4	11 days	1月17日星期日	1月27日星期三	108			+		Richwell	
	Bay R5	10 dzys		1月31日星期日					+	Richwell	
	Bay R5	7 days		2月2日星期二					+	Richwell	
22 23 24 25 26	Bay R7 Bay R8	7 days 11 days	1月29日星期五	2月4日星期四 2月15日星期一	111					Richwell	Rich
25	Bay R9	11 dzys	2月3日星期三	2月18日星期四	113					-	
	Bay R10 (Bay2 Remaining Bay after falsework removal of B1-B5)	5 days	3月4日至附五	3月8日星期二	114						
27											
28 🔳	Shuft B Reinstatement - OHVD slab	20 dzys	1月15日星期五	2月3日星期三						Richwell	
9	Stuft B Reinstatement - roof slab	10 days	2月4日星期四	2月18日星期四	128						
30	Waterproofing top slab at Shaft B	6 days	2月21日星期日	2月26日星期五	129FS+2 days						
31	Stuft B Reinstatement - removal formwork&falseworks	7 dzys	2月29日星期一	3月6日星期日	129FS+10						
32	100 million (100 m				days						
			-	Allastic						+	
3	Waterproofing top slab-load transfer king posts	21 dzys		2月28日星期日							
34	Waterproofing top slob at Bay 10	2 days		3月13日星期日							
85	Backfill and ELS removal (up to -	22 dzys	2月29日星期一	3月21日星期一	133,130,134FF						
36	Recharge water (up to -7mPD)	3 dzys	3月22日星期二	3月24日星期四	135						
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ransformer Building for Dining & ABWF Works S7-TB-3100 Landso E&M Works S7-TB-4100 22kV C S7-TB-4300 Trans fr S7-TB-4400 Engeriz Overall Testing & Commission in S7-TB-9000 WSD Ir S7-TB-9100 FSD In ection 8A of the Works - Repro BWF & E&M Installation Roof Works in Area 8 - ABWF Works a S8B-FP-01100 Roof Fi			11-Aug-12 A	-	HK Working HK Working	Reinsta	atement of armour rock, retaining walls & new o	overed walkway along F
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S7-TB-3100 Landsco E&M Works S7-TB-4100 22kV C S7-TB-4300 Trans fr S7-TB-4400 Engeriz Overall Testing & Commissionin S7-TB-9000 S7-TB-9100 FSD In action 8A of the Works - Repro BWF & E&M Installation Roof Works in Area 8 - ABWF Works a S8B-FP-01100 Roof Fr			29-Oct-14 A 21-Apr-15		Calendar Day Calendar Day			
S7-TB-4100 22kV C S7-TB-4300 Trans for S7-TB-4400 Engeriz Overall Testing & Commissionin S7-TB-9000 S7-TB-9100 FSD in ection 8A of the Works - Repro Roof Works in Area 8 - ABWF Works a S8B-FP-01100	caping Works	30	21-Apr-15	20-May-15	Calendar Day	Landso	caping Works	
S7-TB-4300 Transfe S7-TB-4400 Engeriz Overall Testing & Commissionin Sr-TB-9000 S7-TB-9000 WSD Ir S7-TB-9100 FSD In ection 8A of the Works - Repro SBF & E&M Installation Roof Works in Area 8 - ABWF Works a S8B-FP-01100	Cable across UUD to Transformer Duilding by UEC		29-Oct-14 A 29-Oct-14 A		Calendar Day	2214/ Cable serves HUD to Transformer Bui		
Overall Testing & Commissionin S7-TB-9000 WSD Ir S7-TB-9100 FSD In ection 8A of the Works - Repro BWF & E&M Installation Roof Works in Area 8 - ABWF Works a S8B-FP-01100 Roof Fill	Cable across HHR to Transformer Building by HEC former Installation by HEC	45 30	29-Oct-14 A 10-Apr-15 A		Calendar Day Calendar Day	22kV Cable across HHR to Transformer Bui	liaing by HEC	
S7-TB-9000 WSD Ir S7-TB-9100 FSD In ection 8A of the Works - Repro Roof BWF & E&M Installation Roof Works in Area 8 - ABWF Works a S8B-FP-01100	ization of Transformer	7	01-May-15		Calendar Day	Engerization of Transfor	mer	
S7-TB-9100 FSD In ection 8A of the Works - Repro BWF & E&M Installation Roof Works in Area 8 - ABWF Works a S8B-FP-01100 Roof File	ng Inspection & Water Cert Approval		25-Mar-15 A 25-Mar-15 A		Calendar Day Calendar Day	WSD Inspection & Water Ce	ert Approval	
BWF & E&M Installation Roof Works in Area 8 - ABWF Works a S8B-FP-01100 Roof Fi	nspection & Fire Cert Approval			04-May-15	Calendar Day	FSD Inspection & Fire Cert		
Roof Works in Area 8 - ABWF Works a S8B-FP-01100 Roof Fi	ovisioning of Wan Chai Ferry Pier in Area 8		28-Oct-13 A 28-Oct-13 A		Calendar Day Calendar Day			
S8B-FP-01100 Roof Fi					Calendar Day			
	at Observation Deck of Ferry Pier		28-Oct-13 A		Calendar Day		- U - 1 -	
	Finishes & Misc. ABWF Installation Tunnel Structure (CH3400 - CH3796)		28-Oct-13 A 11-Mar-15 A	· · ·	Calendar Day	Roof Finishes & Misc. ABWF Inst	allation	
unnel Portion 1 (CH3500-CH3630			15-May-15	26-May-15				
CWB Structural Works Bay 6 (For OHVD Base Slab & S	Side Wall Combined to Ray 5)	9 9		26-May-15 26-May-15				
Wall		9	· · · · · · · · · · · · · · · · · · ·	26-May-15				
	Middle Late Cast) - Rebar Fixing	4	15-May-15		HK Working	· · · · · · · · · · · · · · · · · · ·	iddle Late Cast) - Rebar Fixing	
	Middle Late Cast) - Formwork Middle Late Cast) - Concrete	3	20-May-15 23-May-15		HK Working HK Working		I (Middle Late Cast) - Formwork all (Middle Late Cast) - Concrete	
S9B-T1-B6-1140 Wall (N	Middle Late Cast) - Curing & Formwork Removal	3	24-May-15	26-May-15	Calendar Day		Wall (Middle Late Cast) - Curing & Formwork	Removal
unnel Portion 2 (CH3425-CH3500 CWB Structural Works	00)	79 79	· · ·					
	Head Demolition between TP1 & TP2 @ CH3500 (By Wire cut & Sawcut & Robot)	21		14-May-15	HK Working	Bulk Head Den	nolition between TP1 & TP2 @ CH3500(By Wir	ecut & Sawcut & Robot)
	antle the working platform S4 (Gridline 9B to Gridline 10) Removal	2	15-May-15 18-May-15		HK Working HK Working		ne working platform (Gridline 9B to Gridline 10) Removal	
Bay 1		75						
	South) - Formwork & Concrete	3	20-Apr-15 A	· ·	HK Working	Wall (South) - Formwork & Concrete		
	North) - Formwork & Concrete South) - Curing & Formwork Removal	3	20-Apr-15 A 23-Apr-15	22-Apr-15 25-Apr-15	HK Working Calendar Day	Wall (North) - Formwork & Concrete Wall (South) - Curing & Formwork Remo	oval	
S9B-T2-B1-3150 Wall (N	North) - Curing & Formwork Removal	3	23-Apr-15	25-Apr-15	Calendar Day	Wall (North) - Curing & Formwork Remo	oval	
	D Base Slab - Scaffolding Erection	9	18-Apr-15 A 29-Apr-15	28-Apr-15 04-May-15	HK Working HK Working	│ │ │ │ │ │ │ │ │ │ │ │ │ │ │ │ │ │ │		
	D Base Slab - Waterproofing to Upper Side Wall D Base Slab - Formwork	4	05-May-15	15-May-15	HK Working			
	D Base Slab - Rebar Fixing	4	16-May-15	20-May-15	HK Working		Base Slab - Rebar Fixing	
	D Base Slab - Concrete, Curing & Formwork Dismantling D Hanger Wall - Formwork, Rebar & Concrete	14 3	21-May-15 26-May-15	03-Jun-15 28-May-15	Calendar Day HK Working		OHVD Base Slab - Concrete, Curir	•
		-	.,	,		Date	Revision Checked	Approved
	Remaining Work	.		_ ·	CEDD CONTRACT	NO. HK/2009/02		
A (A) 俊和-中	P國中鐵聯營 Summary Bar	V	Nan Chai	Developr	nent Phase II - Centr East (Cont	ral-Wan Chai Bypass at Wan Chai	Revised WP	TASI Print

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D	Activity Name	OD	Start	Finish	Calendar	Apr		May	2015 Ju
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S9B-T2-B1-3220 S9B-T2-B1-3230	Roof - Scaffolding Erection for Roof Roof - Formwork	9	04-Jun-15 12-Jun-15	11-Jun-15 23-Jun-15	HK Working HK Working				Roc
S9B-T2-B1-3230	Roof - Rebar Fixing	10	24-Jun-15	23-Jul-15 06-Jul-15	HK Working				
S9B-T2-B1-3250		10	07-Jul-15	21-Jul-15					
	Roof - Concrete & Curing	70		21-Jul-15 21-Jul-15	Calendar Day				
Bay 2			27-Apr-15			_			_
S9B-T2-B2-3060	Wall (South) - Formwork & Concrete	3	27-Apr-15	29-Apr-15	HK Working			Formwork & Concrete	
S9B-T2-B2-3070	Wall (North) - Formwork & Concrete	3	27-Apr-15	29-Apr-15	HK Working		1 1 1	ormwork & Concrete	1
S9B-T2-B2-3090	Wall (South) - Curing & Formwork Removal	3	30-Apr-15	02-May-15	Calendar Day		1 .	n) - Curing & Formwo	1
S9B-T2-B2-3100	Wall (North) - Curing & Formwork Removal	3	30-Apr-15	02-May-15	Calendar Day		Wall (North	i) - Curing & Formwo	
S9B-T2-B2-3110	OHVD Base Slab - Scaffolding Erection	9	04-May-15	13-May-15	HK Working				- Scaffolding Erection
S9B-T2-B2-3120	OHVD Base Slab - Waterproofing to Upper Side Wall	4	14-May-15	18-May-15	HK Working			OHVD Bas	se Slab - Waterproofing to
S9B-T2-B2-3130	OHVD Base Slab - Formwork	10	19-May-15	30-May-15	HK Working				OHVD Base Slab -
S9B-T2-B2-3140	OHVD Base Slab - Rebar Fixing	4	01-Jun-15	04-Jun-15	HK Working				OHVD Base
S9B-T2-B2-3150	OHVD Base Slab - Concrete, Curing & Formwork Dismantling	14	05-Jun-15	18-Jun-15	Calendar Day				
S9B-T2-B2-3160	OHVD Hanger Wall - Formwork, Rebar & Concrete	3	08-Jun-15	10-Jun-15	HK Working				OHV
S9B-T2-B2-3170	Roof - Scaffolding Erection for Roof	7	19-Jun-15	27-Jun-15	HK Working				
S9B-T2-B2-3180	Roof - Formwork	9	29-Jun-15	09-Jul-15	HK Working				
S9B-T2-B2-3190	Roof - Rebar Fixing	10	10-Jul-15	21-Jul-15	HK Working				
Bay 3		67	20-Apr-15 A	18-Jul-15					
S9B-T2-B3-3060	Wall (South) - Formwork & Concrete	3	04-May-15		HK Working			South) - Formwork &	
S9B-T2-B3-3070	Wall (North) - Formwork & Concrete	3	04-May-15	06-May-15	HK Working			North) - Formwork &	Concrete
S9B-T2-B3-3080	Wall (Middle) - Curing & Formwork Removal	3	20-Apr-15 A		Calendar Day	Wall (Formwork Removal	
S9B-T2-B3-3090	Wall (South) - Curing & Formwork Removal	3	07-May-15	09-May-15	Calendar Day		1		Formwork Removal
S9B-T2-B3-3100	Wall (North) - Curing & Formwork Removal	3	07-May-15	09-May-15	Calendar Day		— w	· / •	Formwork Removal
S9B-T2-B3-3110	OHVD Base Slab - Scaffolding Erection	9	14-May-15	23-May-15	HK Working				VD Base Slab - Scaffoldii
S9B-T2-B3-3120	OHVD Base Slab - Water proofing to Upper Side Wall	4	26-May-15	29-May-15	HK Working				🔲 🛛 🛛 🖉 🔲 🖉
S9B-T2-B3-3130	OHVD Base Slab - Formwork	10	30-May-15	10-Jun-15	HK Working				OH/
S9B-T2-B3-3140	OHVD Base Slab - Rebar Fixing	4	11-Jun-15	15-Jun-15	HK Working				
S9B-T2-B3-3150	OHVD Base Slab - Concrete, Curing & Formwork Dismantling	14	16-Jun-15	29-Jun-15	Calendar Day				
S9B-T2-B3-3160	OHVD Hanger Wall - Formwork, Rebar & Concrete	3	19-Jun-15	23-Jun-15	HK Working				
S9B-T2-B3-3170	Roof - Scaffolding Erection for Roof	7	30-Jun-15	08-Jul-15	HK Working				
S9B-T2-B3-3180	Roof - Formwork	9	09-Jul-15	18-Jul-15	HK Working				
Bay 4		73	21-Apr-15	18-Jul-15					
S9B-T2-B4-3040	Wall (North) - Rebar Fixing	3	21-Apr-15	23-Apr-15	HK Working	🗖 Wall	(North) - Rebar Fi	xing	
S9B-T2-B4-3050	Wall (Middle) - Formwork & Concrete	3	23-Apr-15	25-Apr-15	HK Working	— W	all (Middle) - Form	work & Concrete	
S9B-T2-B4-3060	Wall (South) - Formwork & Concrete	3	11-May-15	13-May-15	HK Working			Wall (South) - For	rmwork & Concrete
S9B-T2-B4-3070	Wall (North) - Formwork & Concrete	3	11-May-15	13-May-15	HK Working			Wall (North) - For	
S9B-T2-B4-3080	Wall (Middle) - Curing & Formwork Removal	3	26-Apr-15	28-Apr-15	Calendar Day		Wall (Middle) - C	uring & Formwork Re	emoval
S9B-T2-B4-3090	Wall (South) - Curing & Formwork Removal	3	14-May-15	16-May-15	Calendar Day			Wall (South)	- Curing & Formwork Re
S9B-T2-B4-3100	Wall (North) - Curing & Formwork Removal	3	14-May-15	16-May-15	Calendar Day			, ,	- Curing & Formwork Re
S9B-T2-B4-3110	OHVD Base Slab - Scaffolding Erection	9	26-May-15	04-Jun-15	HK Working				OHVD Base
S9B-T2-B4-3120	OHVD Base Slab - Waterproofing to Upper Side Wall	4	05-Jun-15	09-Jun-15	HK Working				
S9B-T2-B4-3130	OHVD Base Slab - Formwork	10	10-Jun-15	22-Jun-15	HK Working				
S9B-T2-B4-3140	OHVD Base Slab - Rebar Fixing	4	23-Jun-15	26-Jun-15	HK Working				
S9B-T2-B4-3150	OHVD Base Slab - Concrete, Curing & Formwork Dismantling	14	27-Jun-15	10-Jul-15	Calendar Day				
S9B-T2-B4-3160	OHVD Hanger Wall - Formwork, Rebar & Concrete	3	30-Jun-15	03-Jul-15	HK Working				
S9B-T2-B4-3170	Roof - Scaffolding Erection for Roof	7	11-Jul-15	18-Jul-15	HK Working				
Bay 5		76	21-Apr-15	22-Jul-15					
S9B-T2-B5-3010 S9B-T2-B5-3030	Wall (Middle) - Rebar Fixing Wall (South) - Rebar Fixing	4	21-Apr-15 21-Apr-15	24-Apr-15 23-Apr-15	HK Working HK Working		ll (Middle) - Rebar (South) - Rebar Fi	0	
S9B-T2-B5-3030 S9B-T2-B5-3040	Wall (North) - Rebar Fixing Wall (North) - Rebar Fixing	3	21-Apr-15 21-Apr-15	23-Apr-15 23-Apr-15	HK Working HK Working		(Sputh) - Rebar Fi (North) - Rebar Fi	•	
						vvai	·'		
S9B-T2-B5-3050 S9B-T2-B5-3060	Wall (Middle) - Formwork & Concrete	3	29-Apr-15	02-May-15	HK Working			e) - Formwork & Con	1
	Wall (South) - Formwork & Concrete	3	18-May-15	20-May-15	HK Working			,	outh) - Formwork & Con
S9B-T2-B5-3070	Wall (North) - Formwork & Concrete	3	18-May-15	20-May-15	HK Working				orth) - Formwork & Con
S9B-T2-B5-3080	Wall (Middle) - Curing & Formwork Removal	3	03-May-15	05-May-15	Calendar Day		vvaii (IV	1iddle) - Curing & For	
S9B-T2-B5-3090	Wall (South) - Curing & Formwork Removal	3	21-May-15	23-May-15	Calendar Day				I (South) - Curing & Forr
S9B-T2-B5-3100	Wall (North) - Curing & Formwork Removal	3	21-May-15	23-May-15	Calendar Day			Wal	I (North) - Curing & Forr
S9B-T2-B5-3110	OHVD Base Slab - Scaffolding Erection	9	05-Jun-15	15-Jun-15	HK Working				
S9B-T2-B5-3120	OHVD Base Slab - Waterproofing to Upper Side Wall	4	16-Jun-15	19-Jun-15	HK Working				
S9B-T2-B5-3130	OHVD Base Slab - Formwork	10	22-Jun-15	03-Jul-15	HK Working				
S9B-T2-B5-3140	OHVD Base Slab - Rebar Fixing	4	04-Jul-15	08-Jul-15	HK Working				
S9B-T2-B5-3150	OHVD Base Slab - Concrete, Curing & Formwork Dismantling	14	09-Jul-15	22-Jul-15	Calendar Day				
S9B-T2-B5-3160 Bay 6	OHVD Hanger Wall - Formwork, Rebar & Concrete	3 58	13-Jul-15 15-May-15	15-Jul-15 24-Jul-15	HK Working				
S9B-T2-B6-1010	Base Slab - Waterproofing	4	15-May-15	19-May-15	HK Working			Base Slat	b - Waterproofing
S9B-T2-B6-1020	Base Slab - Formwork & Rebar Fixing	14	20-May-15	05-Jun-15	HK Working		1		Base Slab
S9B-T2-B6-1030	Base Slab - Concrete & Curing	5	06-Jun-15	10-Jun-15	Calendar Day				Bas
S9B-T2-B6-3000	Wall (South) - Waterproofing	4	11-Jun-15	15-Jun-15	HK Working				
S9B-T2-B6-3010	Wall (Middle) - Rebar Fixing	4	11-Jun-15	15-Jun-15	HK Working				
S9B-T2-B6-3020	Wall (North) - Waterproofing	4	11-Jun-15	15-Jun-15	HK Working				
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	Remaining Work				CEDD CONTRAC	CT NO. HK/2009/02		20-Apr-15 3M	
	Actual Work	1	Wan Chai	Developm	ent Phase II - Co	ntral-Wan Chai Bypass at W	an Chai	20-Sep-14 Re	
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	Formwork		
	Roof -	Rebar Fixing	rata 8 Curing
		Roof - Conc	crete & Curing
Side Wall	+		
k bar Fixing	1		
VD Base	Slab - Concrete, (Curing & Formwork Dism	antling
	ormwork, Rebar & Roof - Scaffolding		
		of - Formwork	
		Roof - Reb	ar Fixing
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Slab - Forr	1		
	- Rebar Fixing	b - Concrete, Curing & F	ormwork Dismantling
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vity ID	Activity Name	OD	Start	Finish	Calendar				2015
					L L		Apr 64	65	Jur 66
S9B-T2-B6-3030	Wall (South) - Rebar Fixing	3	16-Jun-15	18-Jun-15	HK Working				
S9B-T2-B6-3040	Wall (North) - Rebar Fixing	3	16-Jun-15	18-Jun-15	HK Working				
S9B-T2-B6-3050	Wall (Middle) - Formwork & Concrete	3	16-Jun-15	18-Jun-15	HK Working				
S9B-T2-B6-3060	Wall (South) - Formwork & Concrete	3	19-Jun-15	23-Jun-15	HK Working				
S9B-T2-B6-3070	Wall (North) - Formwork & Concrete	3	19-Jun-15	23-Jun-15	HK Working				
S9B-T2-B6-3080	Wall (Middle) - Curing & Formwork Removal	3	19-Jun-15	21-Jun-15	Calendar Dav				
S9B-T2-B6-3090	Wall (South) - Curing & Formwork Removal	3	24-Jun-15	26-Jun-15	Calendar Dav				
S9B-T2-B6-3100	Wall (North) - Curing & Formwork Removal	3	24-Jun-15	26-Jun-15	Calendar Day				
S9B-T2-B6-3110	OHVD Base Slab - Scaffolding Erection	9	27-Jun-15	08-Jul-15	HK Working				
S9B-T2-B6-3120	OHVD Base Slab - Waterproofing to Upper Side Wall	4	09-Jul-15	13-Jul-15	HK Working				
S9B-T2-B6-3130	OHVD Base Slab - Formwork	10	14-Jul-15	24-Jul-15	HK Working				
	nel Portion 4 (CH3630-CH3790)	-	11-Mar-15 A	19-Jan-16	HK Working				
Foundation			18-Apr-15 A		HK Working				
	/all after HHR Flyover Diversion (Stage 2) (P132-P143)	7	18-Apr-15 A	· · ·	HK Working				
S9B-T34-1700	Tunnel Portion 3 & 4 Pumping test	7	18-Apr-15 A		HK Working			Tunnel Portion 3 & 4 Pumping test	
CWB Structural Works	1.0		11-Mar-15 A		HK Working				
S9B-T34-2000B	Tunnel Portion 3 & 4 Excavation (200,000m3 soil @800m3/d) & ELS		11-Mar-15 A		HK Working				
	VB Tunnel Structure (CH3246 - CH3400)	90	07-May-15	22-Aug-15	HK Working				
Tunnel Portion 6 (CH32			07-May-15	<u>_</u>	HK Working				
S10-T6-1020	Tunnel Portion 6 Bored Pile - 13nr. (2 sets @ 14d/pile)	90	07-May-15	22-Aug-15	HK Working				
	s - Remainder of Works	_	13-Feb-15 A	0	Calendar Day				
Marine Works at WCR3			13-Feb-15 A	30-Sep-15	Calendar Day				
S11-R3-1210B	Air lifting for removal of sunken objects (VO203)		13-Feb-15 A		Calendar Day Calendar Day				
	· · · · ·					1			1
S11-R3-1210C	Removal of sunken objects	92	01-Jul-15	30-Sep-15	Calendar Day Calendar Day				
Soft Landscaping & Es			24-Feb-10 A	0					
	s - Establishment Works in Area 8	365	21-Apr-15	19-Apr-16	Calendar Day		<u></u>		
S8D-0010	Carry out establishment work on new ferry pier	365	21-Apr-15	19-Apr-16	Calendar Day				1
	s - Protection and Preservation of Existing Trees	2375		29-Aug-16	Calendar Day				
S12-0010	Protection and preservation of existing trees		24-Feb-10 A	0	Calendar Day				:
SUMMARY PROGRAM			07-May-13 A		Calendar Day				
	tion & Remaining Works (Section 9A, 9B, 10 & 11)		30-Aug-14 A		Calendar Day				
CWB Tunnel Works in			19-Jan-15 A	`	Calendar Day				
SUM-CWB-23000	CWB Tunnel Portion 2 Construction		19-Jan-15 A		Calendar Day				
CWB Tunnel Works in			30-Aug-14 A		Calendar Day				
SUM-CWB-30000	Reclamation at WCR3 & Ferry Pier Demolition (Except Water Channel Maintained for HK/200		30-Aug-14 A		Calendar Day	1			I
SUM-CWB-35000B	Foundation for Tunnel Portion 6 - Bored Pile		07-May-15	•	Calendar Day				!
_CWB Tunnel Works in		_	11-Mar-15 A		Calendar Day				
SUM-CWB-42000	Pump Test & Excavation for Tunnel Portion 3&4		11-Mar-15 A		Calendar Day				
	ting Facilities (Section 3, 4A, 4B, 4C, 5, 6, 7, 8A & 8B)		07-May-13 A	04-May-15	Calendar Day				
Reprovisioning of Box			08-Oct-14 A		Calendar Day				
SUM-FAC-52000	VO116 - New Transformer Building to Ferry Pier		08-Oct-14 A	,	Calendar Day			VO116 - New Transformer Bui	lding to Ferry Pier
Reprovisioning of Wa	n Chai Ferry Pier & Covered Walkway (Section 8A & 8B)	150	07-May-13 A	30-Apr-15	Calendar Day				
SUM-FAC-65000	ABWF Works on Observation Deck under Section 8B	150	07-May-13 A	30-Apr-15	Calendar Dav	1		ABWF Works on Observation Deck	under Section 8B

	Remaining Work	CEDD CONTRACT NO. HK/2009/02	Date	Revision	Check
	Actual Work		20-Apr-15	3MRP	
(金 和 - 中 國 中 鎌 聯 發		Wan Chai Development Phase II - Central-Wan Chai Bypass at Wan Chai	20-Sep-14	Revised WP	
	Summary Bar	East (Contract 2)			
CHUN WO - CRGL JOINT VENTURE	Critical Remaining Work	3-MONTH ROLLING PROGRAMME (dd 20-Apr-15)			
	♦ Milestone	5-MONTH KOLLING PROGRAMME (dd 20-Apr-15)			

) - C	RGL、	JOINT VE	ENTURE
	L		· · · · · · · · · · · · · · · · · · ·
	Data 5	Jul 67	Aug 68
	Rebar Fixing Rebar Fixing		
ll (Middle)	- Formwork & Co outh) - Formwor		
Wall (N	orth) - Formworl	< & Concrete	
📕 Wa	all (South) - Curin	ormwork Removal g & Formwork Removal	
Wa		g & Formwork Removal VD Base Slab - Scaffoldir	g Erection
		OHVD Base Slab - Wa	aterproofing to Upper Side Base Slab - Formwork
			Base Slab - Formwork
	<u> </u>		
			1 1 1
	Air lifting for re	moval of sunken objects	(VO203)
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hecked	Approved		2 of 2
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CEDD CONTRACT HK/2009/02

ity ID	Activity Name		On	Rem Sch Dur Ach	eduled/	Scheduled/ Actual Fiosh	Total Exat Calendar	2015	_					-
			Dar	Dur Act	rite Start	Actual Pinan		Dec	1	Jan	Feb	Mar		Apr
ee Months Ro	olling Programme 2015	-12-20 (dd 20-Dec-15)												
ogramme Milest	CALVERY AND INCOME AND INCOME.	OTO No.15 issued on 30-Oct-15)												
0C0170		- CWB Structure (CH3400 Eastward) (4-Nov-15)	a	0		20-Dec-15*	45 Calendar Day		Section 98	Works (2107 days) - CWB Structure (CH3	400 Eastward) (4-Nov-15)			
C0180		- CWB Structure (CH3400 Westward) (2-Feb-16)	0	0		01-Feb-16*	C Calendar Day		and and a second	the second s	Sector 10 Works (2197 days) - 0	CWB Structure (CH340	0 Westward) (2-Feb-	(6)
tion 8A of the		of Wan Chai Ferry Pier in Area 8					a second					and a statement for the state	a residence (the rest	
C and Handover		a the second s								a series and and				
A-TC-9490	Carry out remaining works at O	bservation Deck of New Ferry Pier	80	11 20-1	UN-15 A	30-Dec-15	1 Calenda/ Day		-	Carry out remaining works at Observatio	A Dack of New Ferry Per			
A-TC-9500	Handover of Observation Deck		0	0.		30-Dec-15*	1 Galendar Day			Handover of Observation Deck of New F				
tstanding Works														
BA-FM-1005	Completion of Backfilling above	Tunnel Portion 2 to +4mPD	0	0		19-Jan-16	118 Calendar Day			 Completion of E 	ackfilling above Tunnel Portion 2	to +4mPD		
5A-OUT-1010	Divert temporary EVA to backfi		4	# 20-	Jan+16	23-Jan-16	118 Calendar Day			Divert tem	potary EVA to backfilled areas at	funnel Portion 2		
54-OUT-1020		ry EVA and relocation of the utilities	13		Jan-16	08-Feb-16	95 HK Working Day				Dismanting of existing to			
BA-OUT-1030	Demotish the bulkhead wall und	The second se	22	22 08-	Feb-16	05-Mar-16	95 HK Working Day					Demolish the bu	ulkhead wall underner	ine lampor
		tructure (CH3400 - CH3796)												
nnel Portion 1 (C	CH3500-CH3630)													
WB Structural Worl		and the second					and the second		1.57.0	And the second s				
98-11-5020	Remedial Works of the tunnel s	the second se	40	4 15-/		24-Dec-15	1 HK Working Day			dial Works of the tunnel structure (Bay 1 t				
98-T1-5030		and dramage pipes (Bay 1 to Bay 8)	41		ep-15 A	28-Dec-15*	2 HK Working Day			spection of cross road ducts and dramage			and a start of the	
598-T1-5100A	Construct Roadside Barners - 1 Construct Roadside Barners - 1		40		0ct-15 A	22-Dec-15 28-Dec-15	-41 HK Working Day -44 HK Working Day			Roadside Barners - Westbound (Bay 1) onstruid Roadside Barners - Eastbound (
S98-T1-51008		ta (Bay 1 to Bay 12)	40	5 19-7	404-15 A	28-Dec-15	-44 HK Working Day -54 Calendar Day			ompletion of Roadside Barriers (Bay 1 to		aide Barners - Easibour	nd (Bay 1 to Bay 12)	
A REAL PROPERTY OF A REAL PROPER	ne Slah & Side Wall, Combined to		-		-	20-040-10	day carecina bay			with the result of resulting contract (only i to	bay of in Turiner Potudo 1			
Wall						And in case of the local								
S98-T1-86-1120	Wall (Middle Late Cast) - Reba		- 4	0 14-5	Dec-15 A	17-Dec-15 A	HK Working Day	-		le Cast) - Rebar Fixing				
S98-T1-86-1130A	Wall (Middle Late Cast) - Form		3	2 18-1	Dec-15 A	22-Dec-15	+45 HK Warking Day			ddle Late Cast) - Fornwork, Wall (Middle				
\$98-T1-86-11308	Wall (Middle Late Cast) - Cond		1		Dec-15	23-Dec-15	-45 HK Working Day			iddle Late Gast) - Concrete, Wall (Middle	and the second sec			
S98-T1-86-1140	Wall (Middle Late Cast) - Curin	g & Forniwork Removal	3	3 24	Dec-15	26-Dec-15	-52 Calendar Day		Wa	(Middle Late Cast) - Curing & Formwork	Removal. Wall (Middle Late Casi) - Curing & Farmwork P	Removal	
unnel Portion 2 (C														
CWB Structural Wor								Section Section						
\$98-T2-5110 \$98-T2-5120	ELS Removal - Strut S1 (Grid) Remedial Works of the tunnel		3		Nov-15 A	22-Nov-15 A 22-Dec-15	HK Working Day 2 HK Working Day	ELS Removal - Strut S1 (God		10) I Works of the tunnel structure (Bay 1 to E				
S98-12-5140	Demolition of D-Wall to +1.5 m		30		Jec-15 A	13-Jan-15	+79 Calendar Day	-	Kemedu	The second s	says) >+1.5 mPD, Demonstron of D+Wat			
S9B-T2-6000C	And the part of the state in the	12mPD to GL in Tunnel Portion 2	11		Dec-15 A	15-Dec-15 A	Calendar Day		and and Argans	Shaft from -12mPD to GL in Tunnel Portic		10+1.0 me U		
S98-T2-6005		enals and Final Inspection at TP2	30		3d-15 A	30-Dec-15*	2 Caleridar Day			Clearance of Construction Materials and				
	Tunnel Portion 4 (CH3630-		-				a manual and				The second second second second			
CWB Structural Wor														
\$98-T34-2000	Tunnel Portion 3 & 4 Excavatio	n (200,000m3 soil @800m3/d) & ELS	250	24 13-1	BB-15 A	27-Jan-16	-541 HK Working Day		-	Tunn	el Portion 3 & 4 Excavation (200.0	00m3 soil @800m3/d) 8	& ELS. Tunnel Portion	3 & 4 Excava
S98-T34-2000A	Excavation to rock and carry o	ut rock face stabilization works al north-sast corner	49	24 13-1	Vor-15 A	27-Jan-16	-460 HK Working Day		-		vation to rock and carry out rock fa			
598-734-3000	Carry out temp buikhead break	ing through between TP384 and TP1 at CH3635	34	14 04-1	Sep-15 A	15-Jan-16	-531 HK Working Day	-	-	Carry out temp built	head breaking through between Ti	2384 and TP1 at CH362	35, Carry out temp bu	khead breakin
Bay 1	and the second	A CONTRACTOR OF A CONTRACTOR A CONTRA					A DESCRIPTION OF THE OWNER.			a characteria chia	and in the second second	and the second second		
\$98-T34-81-1000	Base Slab - Trim Bored Pile &	Bleding	1		Dec-15	06-Jan-16	-531 HK.Working Day			Base Slab - Trim Bored Pile & B				
S98-134-81-1010 S98-T34-81-1020	Base Slab - Waterproofing Base Slab - Rebar Fixing		10		Jan-16 Jan-16	18-Jan-16 28-Jan-16	-531 HK Working Day -669 Galendar Day				erproofing, Base Slab - Waterproo Slab - Rebar Fixing, Base Slab -			
SRB-T34-81-1030	Base Stab - Concrete		154	1.0	Jan-16	28-Jan-16	-644 Calendar Day				e Slab - Concrete, Base Slab - Co			
S98-T34-B1-1040	Basa Slab - Curing		4		Jan-16	01-Feb-16	-644. Calendar Day				Base Slab - Curing, Base Slab -			
Bay 2				-							and the second base and .		- CONTRACT	
S98-T34-82-1000	Base Slab - Trim Bored Pile &	Blinding	7	7 04	Feb-16	10-Feb-1E	-680 Calendar Day				Base Slab - Trim Bon	ed Pile & Blinding, Base	slab - Trim Bored P	e & Blinding
S99-T34-B2-1010	Base Stab + Waterproofing		4		Feb-16	14-Feb-16	680 Calendar Day				Base Slat - Wat	terproofing, Basa Slab -	Waterproofing	
S98-T34-82-1020	Base Slab - Rebar Fixing		10		Feb-16	24-Feb-16	-680 Calendar Day					e Slat - Rebar Fixing, B		ng
\$9B-T34-B2-1030	Base Slab - Concrete		1		Feb-16	25-Feb-16	-672 Calendar Day					se Slab - Concrete, Bas		
S98-T34-82-1040	Base Slab - Curing		4	4 26	Feb-16	29-Feb-16	+672 Galendar Day				-	Base Slab - Guring, B	Base Stab - Curing	
5/8y 3 \$98-134-83-1000	Base Slab - Trim Bored Pile &	Binding	7	7 28	Jan-16	03-Feb-16	+660 Calendar Day				Base Slab - Trim Bored Pile &	Binding Base State T	They Down Die & Die	time
S98-T34-B3-1010	Base Slab - Waterproofing	Distancy.	4		Feb-16	07-Feb-16	-680 Calendar Day		-		Base Stab - Waterprotin			anag
 Milestone 											Date	Revision	Checked	Approv
Critical Mile											20-Dec-15			
Current We	and a go have	CHUN WO - CRGL				CE	DD CONTRA	CT NO. HK/20	000/02					-
	and the second sec	SHOR NO - CROL				UL	DD CONTRA	or no. nn/20	005/02		1	1.		-
Critical Wo	orks							1.2 Beach Links	Columb 1	1 1 2 1 1 Common 2 2 2 2		112 - 51		5
		JOINT VENTURE		WD	II - Ce	entral W	Vanchai Bypa	ass at Wan Ch	nai Eas	t (Contract 2)		11	2	
										A CARACTER		1		
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CEDD CONTRACT HK/2009/02

Critical Works

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Eay 8 \$98-T34-88-1000 Ba	ase Slab - Trim Bored Pile & Blinding	2	7	19-Feb-16	26+Feb-16	-665. Calendar Day	
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	ase Slab - Waterproofing	4	4	11-Mar-16	15-Mar-16	-665 Calendar Day	
Bay 10			-			The subscription of the local division of the local division of the local division of the local division of the	
\$98-T34-B10-1000 Ba	ase Slab - Trim Bored Pile & Blinding	1	7	15-Mar-16	22-Mar-16	-666 Galendar Day	
Elsy 11 \$98-T34-B11-1000 Ba		7	7	08-Mar-16	15-Mar-16	-666 Calendar Day	
	ase Slab - Trim Bored Pile & Blinding ase Slab - Waterproofing	4	â	15-Mar-18	19-Mar-16	-664 Calendar Day	
Bay 13	ase and - weith brooking	4		12-440-12	10-3440-10	-boy Calendar Day	
	ase Slab - Trim Bored Pile & Blinding	1	2	13-Feb-16	20-Feb-16	-823 Calendar Day	
	ase Slab - Waterproofing	4	- 4	20-Feb-16	24-Feb-16	-623 Calendar Day	
	ase Slab - Rebar Fixing	7	7.	24-Feb-16	02-Mar-16	-823 Calendar Day	
the second se	ase Slab - Concrete	1	1	02-Mar-16	03-Mar-16	-623 Calendar Day	
	ase Slab - Coring	.4		03-Mar-16	07-Mar-16	-623 Calendar Day	
599-T34-B14-0990 Ba	sse Stab - Thm Bored Pie & Blinding	7	7	20-Feb-16	27-Feb-16	-606. Calendar Day	
	ase Slab - Waterprobling	4		29-Feb-16	04-Mar-18	-602 Calendar Day	
	ase Stab - Wiserpooling ase Stab - Rebar Fixing	10	10	04-Mar-16	14-Mar-18	-594 Calendar Day	
Bay 15	are one river rivery	10	10	permit + to	Tarrenti v ta	-our control only	
	ase Slab - Trim Bored Pile & Blinding	7	.7	27-Feb-16	05-Mar-16	-606 Calendar Day	
598-T34-815-1000 Ba	ase Stat - Weterproofing	4		05-Mar-16	09-Mar-16	-603 Calendar Day	
	ase Stab - Rebar Fixing	7	7	09-Mar-16	16-Mar-16	-598 Calendar Day	
Bay 16						and the second se	
	ase Slab - Trim Bored Pile & Blinding	7	1	05-Mar-16	12-Mar-16	+606 Calendar Day	
S98-T34-B16-1000 Ba	ase Slab - Waterproofing	4	4	12-Mar-16	16-Mar-16	-606 Calendar Day	
S9B-T34-B16-1010 B	ase Slab - Rebar Fixing	10	10	16-Mar-16	26-Mar-16	-606 Calendar Day	
Bay 17		and the second					
	ase Slab - Trim Bored Pile & Blinding	X	7	20-Feb-16	27-Feb-16	-599 Calendar Day	
	ase Slab - Waterproofing	4	4	27-Feb-16	02-Mar-16	-589 Calendar Day	
	ase Slab - Rebar Fixing	7	1	02-Mar-16	09-Mar-16	-589 Calendar Day	
and the second second	ase Slab - Concrete	1	1	09-Mar-16	10-Mar-16	-589 Calendar Day	
Bay 18 S98-T34-B18-1000 Bi	ase Slap - Trim Bored Pile & Blinding	8	5	27-Feb-16	03-Mar-16	-599 Calendar Day	
	ase Slab - Waterproofing	3	3	03-Mar-16	06-Mar-16	-599 Calendar Day	
and a second second second			2	and the second second	and the second second		-
Milestone							
Critical Milesto	nnes.						

JOINT VENTURE



WD II - Central Wanchai Bypass at Wan Chai East (Contract 2)

3-MONTH ROLLING PROGRAMME (dd 20-Dec-15)

Page 2 of

CEDD CONTRACT HK/2009/02

Invity ID	Adivity Name	On	Rem	Scheduled! Actual Start	Scheduled/ Actual Finish	Total Float Calendar	2015	2016
		-Dur	00	ACTUB AUTT	ACTUM PROBA		Dec	2016 2017 Feb Mar Apr
S98-T34-B18-1020	Base Slab + Rebar Fixing	7	7	06-Mar-16	13-Mar-16	-599 Calendar Day		Base Slab - Reber Fixing, Base Slab - R
Section 10 Work	s - CWB Tunnel Structure (CH3246 - CH3400)							and the second second second
Tunnel Portion 5 (CH3276-CH3400)							
S10-T5-0900	SI for Bored Piling works	53	7	02-Nov-15 A	30-Dec-15	-537 HK Working Day		SI for Bored Piling works. SI for Bored Piling works
S10-T5-1000	Plant Setup, Guidewall, Critical Pre-Drilling & Ground Treatment for D-Wall Construction f.	36	36	21-Dec-15	10-Feb-18	-804 HK Working Day		Plant Setup, Guidewall, Critical Pre-Drilling & Ground Treatment for D-Wall Cons
\$10-75-1005	Mobilisation for Bored Pilling	17	0	13-Nov-15 A	15-Dec-15 A	HK Working Day	Motilisation	for Borled Pilling
S10-T5-1010	Tunnel Portion 5 Stage 1 D-wall (29 nos. Panels; 7d/panel; 3G+1C)	58	58	27-Jan-16	07-Apr-16	-604 HK Working Day		Tunnel P
S10-T5-1030	Tunnel Portion & Stage 1 Bored Pile = 15nr. (3 sets (2) 14d/pile)	58	26	17-Nov-15 A	29-Jan-16	-583 HK Working Day		Tunnel Portion 5 Stage 1 Bored Pile - 15nr. (3 sets @ 14d(pile), Tunnel Portion 5 Stage 1 Borer
\$10-T5-1050	Tunnel Portion 5 Stage 2 Bored Pile - 14nr. (3 sets @ 14d/pile)	58	58	30-Jan-16	11-Apr-16	-583 HK Working Day		Toma Toma
Section 11 of the	a Works - Remainder of Works							
Marine Works at V	VCR3							
S11-R3-1410	Demolition of Remaining Ferry Pler	11	0	04-Dec-15 A	08-Dec-15 A	Calendar Day	Demolition of Remain	ang Fany Pier
S11-R3-1820	Type A Fill Stage 2 from (6.0mPD behind Calsson Seawats (2.000m3)	9	0	02-Nov-15 A	21-Nov-15 A	Calendar Day	ype A Fill Stage 2 from -E.0mPD behind	Calison Seewals (2,000m3)
S11-R3-1840	Placing Geolexile and Filter Stage 2 from -6.0mPD (1,000m3)	9	0	05-Nov-15 A	25-Nov-15 A	Calendar Day	Placing Geolexile and Filter Stage 2 1	fram +6(0mPD (1,000m3)
S11-R3-1900	2nd Stage Reclamation from -7.0mPD to +2.5mPD (75,000m3 @ 1000m3/d)	71	a	01-Nov-15 A	04-Dec-15 A	Calendar Day	2nd Stage Rectamation fm	om -7 0mPD to +2.5mPD (75.000m3 @ 1000m3/d)
\$11-R3-2000	Remaining Reclamation to +4.0mPD (25000m3 @ 1000m3/d)	22	22	24-Nov-15 A	11-Jan-16	-754 Calendar Day		Remaining Reclamation to +4.0mPD (25000m3 @ 1000m3/d); Remaining Reclamation to +4.0mPD (25000m3 @ 100
Formation and Ha	rd Landscaping Works							
\$11+FM-2000A	Tutnel Portion 2 Backfilling (35.000m3; 750m3(d)	71	22	25-Sep-15.A	19-Jan-16	-79 Calendar Day		Tunnel Ponton 2 Backfilling (35,000m3; 750m3/a), Tunnel Ponton 2 Backfilling (35,000m3; 750m3/d)
\$11-FM-2000B	Completion of Tunnel Porton 2 Backfilling	0	0		19-Jan-16	-56 Calendar Day		 Completion of Tunnel Portion 2 Bacidilling.
Soft Landscapin	g & Establishment Works							and the second and the second second
Section 6D of the	Works - Establishment Works In Area 8							
58D-0010	Carry out establishment work on new ferry pier	. 288	224	28-Aug-15 A	27-Aug-16	-2 7-Day Workwaak		

Milestone Critical Milestones			Date 20-Dec-15	Revision	Checked	Approved
Critical Works	CHUN WO - CRGL JOINT VENTURE	CEDD CONTRACT NO. HK/2009/02 WD II - Central Wanchai Bypass at Wan Chai East (Contract 2) 3-MONTH ROLLING PROGRAMME (dd 20-Dec-15)				

Page 3 of 3

No. 64 / 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2 /		Activity Name	Origina Duratio	l Start n	Finish	201	15			2016			_
	2-06 (A) - Th	aree Months Polling Programme, undated up to 20-Dec-15				Dec			Jan	F	eb		
Operation Work Oper		nee Month's Koning Programme_updated up to 20-bec-13											
Data water Description P Control P <		ates											
NNote of your of you	M	Instruction to proceed with Section 8 (IEC Abutment M)- subject to excision 945d	0	20-Dec-15*			Instruction to proceed wit	n Section 8	8 (IEC Abutment M)- subject to excision 945d				
 a basic ratio of a basic ratio	dover Dates (C	Contractual Date up to EOT-08)											
A sound share if a s	VC	Handover of Portion XV	0		20-Dec-15*		Handover of Portion XV						
0 Autor 0 Normal Autor Normal Autor<	IC	Handover of Portion VI	0		20-Dec-15*		Handover of Portion VI						
Description O <tho< th=""> O O O O</tho<>	IIC	Handover of Portion VII	0		20-Dec-15*		Handover of Portion VII						
No Results of Yeak N Re Results of Yeak N Re Results of Yeak N No	lic	Handover of Portion III	0		06-Jan-16*				Handover of Portion III				
	ndover Dates (F	Programmed Date)											
All Intervention I Manual I Manual I Manual I Manual Manual </td <td>V</td> <td>Handover of Portion XV</td> <td>0</td> <td></td> <td>20-Dec-15</td> <td></td> <td>Handover of Portion XV</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	V	Handover of Portion XV	0		20-Dec-15		Handover of Portion XV						
	1	Handover of Portion VI	0		16-Jan-16				Handover of Portion VI				
Base of the iso converse of the iso convers	11	Handover of Portion VII	0		16-Jan-16				Handover of Portion VII				
	1	Handover of Portion III	0		17-Jan-16				Handover of Portion III				
DOM Discrepande disco 2004 (Processed of the													
gap / Sector 2000 00 0000 2010 20100 2010 20100 2010 20100 2010 20100 2010 201000 201000000 20100000000													
Bit B			0		20-Dec-15*		KD2 - Achievement of Sta	ge 2 (994d)	d) (Plus 5 day EOT)				
bit offse: Comparison Resures (BMA) o					00 D (7								
Subsinities													
when bit State Carl Carl Carl Carl Carl Carl Carl Carl		KD15 - Completion of Section 9 of the Works (994d)	0		20-Dec-15		KD15 - Completion of Se	ction 9 of th	the Works (994d)				
UN 2 Part Carl UN 2													
1919 1919													
TBS CT Wate-May <													
No. 9/20 OC 1 No. 9/2 NO. 9/2 NO. 9/2 NO. 9/2													
TBS::::::::::::::::::::::::::::::::::::			10	08-Dec-15 A	21-Dec-15 A		CCT Walls - Bay 8						
150C 040 101 0 m sh - By 2 10 0 0 0 0 0 m 1 3 2 0 0 m 1 3 2 0 0 m 1 3 2 0 0 m 1 3 2 0 m 1 3													
Table data Table data <td></td> <td></td> <td>10</td> <td>08-Dec-15 A</td> <td>24-Dec-15 A</td> <td></td> <td>TS3(E) Cast OH</td> <td>VD in situ -</td> <td>- Bay 2</td> <td></td> <td></td> <td></td> <td></td>			10	08-Dec-15 A	24-Dec-15 A		TS3(E) Cast OH	VD in situ -	- Bay 2				
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TSBLEGY: USC	TS3E_6930		10	21-Dec-15 A	08-Jan-16				TS3(E) Cast OHVD in situ - Bay 8				
SER_BYD CCT Rod Skib- Bay S TSE_BYD CCT Rod Skib- Bay S	TS3E_6920	TS3(E) Cast OHVD in situ - Bay 7	10	23-Dec-15 A	29-Dec-15		TS	B(E) Cast C	OHVD in situ + Bay 7				
TSR_670 CT Rod Sabe Bay 6 10 12 Dec 15A 25 Dec 15A	S3 East CCT - R	oof Slab											
TSSE_6730 CIT Roof Sabe - Bay 1 Cot Roof Sabe - Bay 2 Cot Roof Sabe - Bay 3	TS3E_6770	CCT Roof Slab - Bay 5	10	07-Dec-15 A	20-Dec-15 A		CCT Roof Slab - Bay 5						
TSE_670 OCT Roof Sale- Bay 2 Image: Cot Roof Sale-	TS3E_6780	CCT Roof Slab - Bay 6	10	12-Dec-15 A	25-Dec-15 A		CCT Roof Sla	- Bay 6					
TSSE_670 CCT Rod Sab- Bay 7 CCT Rod Sab 7 C	TS3E_6730	CCT Roof Slab - Bay 1	10	26-Dec-15 A	29-Dec-15		co	T Roof Slat	ab - Bay 1				
TSB 680 CCT Rod Sub - Bay 8 Image: Cot Rod Sub - Bay 4 Image: Rod Rod Sub - Bay 1 to Bay 4 Image: Rod Rod Sub - Bay 1 to Bay 4 Image: Rod Rod Sub - Bay 1 to Bay 4 Image: Rod Rod Sub - Bay 1 to Bay 4 Image: Rod Rod Sub - Bay 1 to Bay 4 Image: Rod Rod Sub - Bay 1 to Bay 4 Image: Rod Rod Sub - Bay 1 to Bay 4 Image: Rod Rod Sub - Bay 1 to Bay 4 Image: Rod Rod Sub - Bay 1 to Bay 4 Image: Rod Rod Sub - Bay 1 to Bay 4 Image: Rod Rod Sub - Bay 1 to Bay 4 Image: Rod Rod Sub - Bay 1 to Bay 4 Image: Rod Rod Sub - Bay 1 to Bay 4 Image: Rod Rod Sub - Bay 1 to Bay 4 Image: Rod Rod Sub - Bay 1 to Bay 4 Image: Rod Rod Sub - Bay 1 to Bay 4 Image: Rod Rod Sub - Bay 1 to Bay 4 Image: Rod Rod Sub - Bay 1 to Bay 4 Image: Rod Rod Sub - Bay 1 to Bay 4 Image: Rod Rod Rod Sub - Bay 1 to Bay 4 Image: Rod Rod Rod Sub - Bay 1 to Bay 4 Image: Rod Rod Rod Rod Sub - Bay 1 to Bay 4 Image: Rod	TS3E_6740	CCT Roof Slab - Bay 2	10	28-Dec-15 A	04-Jan-16				CCT Roof Slab - Bay 2				
TS3 Ead CCT - Vol Streeding Note <	TS3E_6790	CCT Roof Slab - Bay 7	10	30-Dec-15	08-Jan-16				CCT Roof Slab - Bay 7				
TS3E_6800 TS3E_0800 TS3E_0804	TS3E_6800	CCT Roof Slab - Bay 8	10	09-Jan-16	18-Jan-16				CCT Roof Slab - Bay 8				
TS3E_6840 TS3E_0 Screeding - Bay 1 to Bay 4 12 24-Dec.15 06-Jan.16 TS3E_6820 TS3E_0 Screeding - Bay 6 to Bay 8 12 1-Jan.16 2-Jan.16 1-Dan.16 1-Dan.16 </td <td>S3 East CCT - R</td> <td>oof Slab Waterproofing + Screeding</td> <td></td>	S3 East CCT - R	oof Slab Waterproofing + Screeding											
T35E_6840 T35(E) Screeding - Bay 1 to Bay 4 12 28-Dec-15 08-Jan - 16 T35E_6820 T35(E) Waterproofing to Roof Slab - Bay 6 to Bay 8 12 1-Jan - 16 2-Jan - 16 1 1-Jan - 16 1-Jan - 16 1 1-Jan - 16 1-Jan - 16 1 1-Jan - 16	TS3E_6810	TS3(E) Waterproofing to Roof Slab - Bay 1 to Bay 4	12	24-Dec-15	04-Jan-16				TS3(E) Waterproofing to Roof Slab - Bay 1 to Bay 4				
TS3E_6500 TS3(E) Screeding - Bay 6 to Bay 8 12 13.Jan - 16 24.Jan - 16 1 <td< td=""><td>TS3E_6840</td><td>TS3(E) Screeding - Bay 1 to Bay 4</td><td>12</td><td>28-Dec-15</td><td>08-Jan-16</td><td></td><td></td><td></td><td>TS3(E) Screeding - Bay 1 to Bay 4</td><td></td><td></td><td></td><td></td></td<>	TS3E_6840	TS3(E) Screeding - Bay 1 to Bay 4	12	28-Dec-15	08-Jan-16				TS3(E) Screeding - Bay 1 to Bay 4				
TS3 East - Cable Trough Bay 1-8 27 12-Jan-16 07-Feb-16 07 07-Feb-16 07<	TS3E_6820	TS3(E) Waterproofing to Roof Slab - Bay 6 to Bay 8	12	11-Jan-16	22-Jan-16				TS3(E) Waterproofing to Roof	lab - Bay 6 to Bay 8			
TS3E_640 TS3(E) Cable Trough Bay 1-8 TS3(E) Cable Trough Bay 1-8 TS3(E) Cable Trough Bay 1-8 TS3E_6420 CP32 CH4552 Westbound) TS3(E) CAble Trough Bay 1-8 TS3(E) Cable Trough Bay 1-8 TS3E_6830 CP32 - Baase Slab 5 05-Jan-16 09-Jan-16 TS3E_6950 CP32 - Wall CP32 - Baase Slab CP32 - Baase Slab CP32 - Baase Slab CP32 - Roof Slab CP32	TS3E_6850	TS3(E) Screeding - Bay 6 to Bay 8	12	13-Jan-16	24-Jan-16				TS3(E) Screeding - Bay 6	to Bay 8			
TS3 East - Cross Passege CP32 (CH4552 Westbound) TS3E_6830 CP32 - Baase Slab 5 05-Jan - 16 09-Jan - 16 15-Jan - 16 09-Jan -	S3 East - Cable	Trough											
TS3E_6830 CP32 - Baase Slab Sig 05-Jan - 16 09-Jan - 16 15-Jan - 16	TS3E_6940	TS3(E) Cable Trough Bay 1-8	27	12-Jan-16	07-Feb-16					TS3(E) Cable T	frough Bay 1-8		
TS3E_6950 CP32 - Wall 6 10-Jan-16 15-Jan-16 TS3E_6960 CP32 - Roof Slab 8 16-Jan-16 23-Jan-16 Actual Work Page 1 of 5 Date Revisi Dotted to 20th Decention Work Date Revisi Date Date Revisi Dotted to 20th Decention Work Date Revisi Dotted to 20th Decention Date Revisi Dotted to 20th Decention Date Revisi Dotted to 20th Decention Revisi Revisi Revisi Revisi Revisi Revisi Revisi Revisi Revisi Revisi Revisi Revisi Revisi Revisi Revisi Revisi Revisi </td <td></td>													
TS3E_6960 CP32 - Roof Slab			5										
Actual Work Page 1 of 5			6										
20-Dec-15 Updated to 20th Dec	S3E_6960	CP32 - Roof Slab	8	16-Jan-16	23-Jan-16				CP32 - Roof Slab				
20-Dec-15 Updated to 20th Dec						Dere 1 of 5				Date		Revision	
						Page 1 of 5					Update		2015
Contract No. HY/2010/08: Central - Wanchal Bypass Tunnel +(Slip	中国	图連禁工程(香港) 介限公司		-		Contract		· Con	ntral - Wanchai Bypass Tunnel +(Slip				

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h	Bay 6 to Bay 8									
Ba	y 8									
	TS3(E) Cable	Troug	h Bay 1-8							
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┢	20-Dec-15		Undate	d to 20th De		2015	DML/W		Λγγ	5760
┢			puale		52			-		

/ity ID /	Activity Name	Original	Start	Finish											
, (j. 12)		Duration	olart		20 Dec	5				Jan				2016 Fe	eb
TS3E_6970 (CP32 - Waterproofing to Roof Slab	4	24-Jan-16	27-Jan-16							1	CP32 -	Waterproofing t		
TS3E_6980	CP32 - Screeding	4	28-Jan-16	31-Jan-16									CP32 - Scree	ding	
Removal of Reclamation	ation														
TS3-East Removal of	f Reclamation											-			
TS3E_7540	Layer 5&6: Removal of waling & lateral struts	8	20-Dec-15	27-Dec-15			Layer 58	k6: Rem	ioval of waling &	alateral struts					
TS3E_6560 H	King post load transfer	10	25-Jan-16	03-Feb-16									King po	st load transfer	
TS3E_7550 I	Layer 4: Removal of waling & lateral struts	6	04-Feb-16	09-Feb-16										Layer 4: Re	emoval of v
	Layer 3&7: Removal of waling & lateral struts	8	10-Feb-16	17-Feb-16											La
	Removal of general fill	14	18-Feb-16	02-Mar-16											_
	Removal of seawall block	21	24-Feb-16	15-Mar-16											_
		7	03-Mar-16	09-Mar-16											
_	Layer 2: Removal of waling & lateral struts														
	Removal of king post above sea bed level	7	03-Mar-16	09-Mar-16											
	Sawcutting of diaphragm wall	21	10-Mar-16	30-Mar-16											
Works in TS3-West															
Diaphragm Wall															
TS3-West Diaphragm	n Construction														
TS3W_3120	Diaphragm wall construction Phase 2 (84/137 panels)	152	03-Jun-15 A	27-Dec-15 A			Diaphragn	n wall c	onstruction Pha	se 2 (84/137 pa	nels)				
TS3-West Post D/wal	II Works									1		1			
TS3W_3530	D/wall integrity test	100	04-Jun-15 A	09-Feb-16										D/wall integ	jrity test
TS3W_3510 [D/wall Interface coring + grouting	100	06-Jun-15 A	16-Jan-16							, D/wall Interface	pring + grouting			
TS3W_3520	D/Wall Coring + fissure grouting	100	24-Jun-15 A	05-Feb-16						1			Di	Wall Coring + fissu	ure grouti
	Dewatering & observation well installation	26	23-Nov-15 A	14-Jan-16						Dew	atering & observ	ation well installa			
	Pumping test	3	15-Jan-16	17-Jan-16							Pumping test				
		5	13-3dii-10	17-5811-10		1						1			
ELS & Rock Excava												1			
ELS Fabrication Wor															
	ELS struts & waling fabrication	75	17-Sep-15 A	20-Jan-16							ELS st	uts & waling fab	ication		
TS3-West ELS Works	i														
TS3W_4515	King Post installation	45	18-May-15 A	16-Jan-16							King Post installa	ition			
TS3W_4520 \$	Start of ELS - Layer 1: Soft excavation struts installation	15	04-Nov-15 A	21-Jan-16				-			Star	of ELS - Layer 1	: Soft excavation	struts installation	
TS3W_4530 I	Layer 2: Soft excavation struts installation	15	28-Nov-15 A	03-Feb-16								;	Layer 2	Soft excavation s	struts inst
TS3W_4540 I	Layer 3: Soft excavation struts installation(Remove Layer 1)	15	04-Feb-16	18-Feb-16											
TS3W_4550 I	Layer 4 Soft excavation struts installation	15	19-Feb-16	04-Mar-16											
TS3W_4560 I	Layer 5: Soft excavation struts installation	15	05-Mar-16	19-Mar-16											
Cut & Cover Tunnel	Structure														
Temporary Works De												1			
	(01) RC Temp Work Design - submission	24	29-Feb-16	30-Mar-16											
Method Statement	· · · · · · · · · · · · · · · · · · ·					_									
	(01)RC works method statement - submission	24	25-Feb-16	23-Mar-16											
_		24	25-Feb-10	23-IVIAI - 10								1			
SR8 CCT - Sea Side F															
SR8 Works on Recla															
SR8.MS.1010	ELS Works at SR8 (Marine Side)	90	18-Jan-16	16-Apr-16											
Vorks in SR8 (Op	en Cut Method)														
SR8 - Cofferdam & C	ut & Cover Tunnel Works														
SR8 East Bound - (S	Seaside to Victoria Road / IEC Central Divider)														
TTA Stage 2 - East B	ound														
Stage 4 - East Boun	d (Ref. DRG. No.CDD/SR8/084)														-
SR8.EB.1500	Carry out Stage 4 Tam Grout	14	16-Oct-15A	30-Dec-15 A			Ca	rry out	Stage 4 Tam Gi	out					
Tunnel Ch.514.500 to	OCh.459.000 (East Bound) - ELS / CCT / BF + Reinstatement Works														
ELS Works										1		1			
	ELS Layer 1 - Soft Excavation + Strut Installation	12	21-Nov-15 A	29-Dec-15				SLaver	1 - Soft Excave	tion + Strut Insta	Illation				
								,							
														Data	
	💻	Actua	al Work		Page 2 of 5									Date 20-Dec-15	
	津 雄 テ 棺 (美 迷) み 肉 ハ コ 🗖	Rem	aining Work								_	_		20-060-10	Up
に CHINA STA	連黎工程(春港) 介限公司	Critic	al Remainin	a Work	Contract	No. HY/20	10/08:	: Ce	ntral - V	Nanchai	Bypass	Tunnel -	+(Slip		
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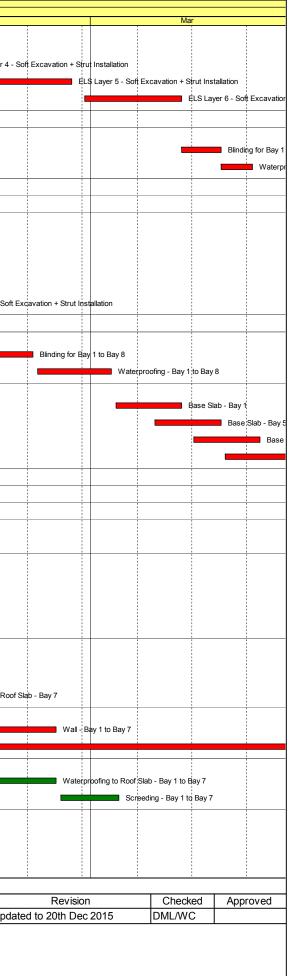
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al of	waling									
		& lateral struts								
La	ayer 3a	\$7: Removal of w	aı		1					
				Remova	al of	gen	eral fill			
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							Layer 2:	Remov	al of wali	ng & lateral
							Remova	l of king	g post ab	ove sea beo
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insta	allation	1								
	Layer	3: Soft excavation	on	struts installat	ion(I	Rem	iove Laye	er 1)		
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	Activity Name	Original Duration		Finish	2015 Dec			Jan			2016	Fe
SR8.EB.1621	ELS Layer 2 - Soft Excavation + Strut Installation	12	30-Dec-15	13-Jan-16	Dec			ELS Layer 2 - Soft E	xcavation + Strut Ins	allation		Fe
SR8.EB.1622	ELS Layer 3 - Soft Excavation + Strut Installation	12	14-Jan-16	27-Jan-16					ELS La	iyer 3 - Soft Exca	avation + Strut In	nsta
SR8.EB.1623	ELS Layer 4 - Soft Excavation + Strut Installation	12	28-Jan-16	13-Feb-16								I EL
SR8.EB.1624	ELS Layer 5 - Soft Excavation + Strut Installation	12	15-Feb-16	27-Feb-16								
SR8.EB.1625	ELS Layer 6 - Soft Excavation + Strut Installation	12	29-Feb-16	12-Mar-16								
tructural Works	s											+
Blinding + Wate	erproofing											
SR8.EB.1630	Blinding for Bay 1 to Bay 4	4	12-Mar-16	17-Mar-16								
SR8.EB.1670	Waterproofing - Bay 1 to Bay 4	4	17-Mar-16	21-Mar-16								
	I - Ch. 459.000 to 385.000 (Victoria Road / IEC Centra I Divider)											-
	0 to 385.000 (West Bound) - ELS / CCT/ BF+Reinstatement Works											+
Vest Bound - EL												-
SR8.WB.5080	ELS Layer 1 - Soft Excavation + Strut Installation	12	21-Nov-15 A	28-Jan-16 A						aver 1 - Soft Exca	avation + Strut I	Inct
SR8.WB.5080	ELS Layer 2 - Soft Excavation + Strut Installation		30-Nov-15A	24-Dec-15		El Strar 2	Soft Excavation + Stru	Installation		IVEI 1 - SUIL LACA	avauon + Strut III	inst
	•	12				ELS Layer 2-	Solt Excavation + Still					
SR8.WB.5140	ELS Layer 3 - Soft Excavation + Strut Installation	12	28-Dec-15	11-Jan-16				ELS Layer 3 - Soft Excav	1			
SR8.WB.5150	ELS Layer 4 - Soft Excavation + Strut Installation	12	12-Jan-16	25-Jan-16					ELS Layer 4	- Soft Excavatio		1
SR8.WB.5160	ELS Layer 5 - Soft Excavation + Strut Installation	12	26-Jan-16	11-Feb-16							ELS	3 La
	CT Structural Works											
Blinding + Wate	erproofing											
SR8.WB.5090	Blinding for Bay 1 to Bay 8	9	11-Feb-16	22-Feb-16								-
SR8.WB.5230	Waterproofing - Bay 1 to Bay 8	9	23-Feb-16	03-Mar-16								
Base Slab + Dra	ainage											
SR8.WB.5180	Base Slab - Bay 1	8	04-Mar-16	12-Mar-16								
SR8.WB.5270	Base Slab - Bay 5	8	09-Mar-16	17-Mar-16								
SR8.WB.5240	Base Slab - Bay 2	8	14-Mar-16	22-Mar-16								
SR8.WB.5280	Base Slab - Bay 6	8	18-Mar-16	30-Mar-16								
Portal Structure Base Slab + Dra												
SR8.VP.5160	Base Slab - Bay 7	8	21-Dec-15	31-Dec-15			Base Slab - Bay 7					
Wall + Removal	of Strut											
SR8.VP.5170	Wall - Bay 1	10	21-Oct-15 A	30-Dec-15 A		×	all - Bay 1					
SR8.VP.5210	Wall - Bay 5	- 10						Wall - Bay 5				
		10	08-Dec-15A	11-Jan-16								
SR8.VP.5220	Wall - Bay 6	10	08-Dec-15 A 08-Dec-15 A	11-Jan-16 12-Jan-16				I Wall - Bay 6				
	Wall - Bay 6 Wall - Bay 7							I Wall - Bay 6	Wall - Bay 7			
SR8.VP.5220	•	10	08-Dec-15 A	12-Jan-16				I Wall - Bay 6	Wall - Bay 7			
SR8.VP.5220 SR8.VP.5230	•	10	08-Dec-15 A	12-Jan-16				I Wall - Bay 6	Wali - Bay 7 loof Slab - Bay 5			
SR8.VP.5220 SR8.VP.5230 Roof Slab	Wall - Bay 7	10 10	08-Dec-15A 12-Jan-16	12-Jan-16 22-Jan-16				I Wall - Bay 6		Roof Slab	Bay 6	
SR8.VP.5220 SR8.VP.5230 Roof Slab SR8.VP.5280	Wall - Bay 7 Roof Slab - Bay 5	10 10 10	08-Dec-15A 12-Jan-16 15-Dec-15A	12-Jan-16 22-Jan-16 21-Jan-16				I Wall - Bay 6		Roof Slab	Bay 6	
SR8.VP.5220 SR8.VP.5230 Roof Slab SR8.VP.5280 SR8.VP.5290	Wall - Bay 7 Roof Slab - Bay 5 Roof Slab - Bay 6 Roof Slab - Bay 7	10 10 10 10 10	08-Dec-15A 12-Jan-16 15-Dec-15A 22-Jan-16	12-Jan-16 22-Jan-16 21-Jan-16 02-Feb-16				I Wall - Bay 6		Roof Slab	Bay 6	
SR8.VP.5220 SR8.VP.5230 Roof Slab SR8.VP.5280 SR8.VP.5290 SR8.VP.5300	Wall - Bay 7 Roof Slab - Bay 5 Roof Slab - Bay 6 Roof Slab - Bay 7	10 10 10 10 10	08-Dec-15A 12-Jan-16 15-Dec-15A 22-Jan-16	12-Jan-16 22-Jan-16 21-Jan-16 02-Feb-16				Wall - Bay 6	oof Slab - Bay 5			
SR8.VP.5220 SR8.VP.5230 Roof Slab SR8.VP.5280 SR8.VP.5290 SR8.VP.5390 SR8.VP.5300	Wall - Bay 7 Roof Slab - Bay 5 Roof Slab - Bay 6 Roof Slab - Bay 7	10 10 10 10 10 10	08-Dec-15A 12-Jan-16 15-Dec-15A 22-Jan-16 03-Feb-16	12-Jan-16 22-Jan-16 21-Jan-16 02-Feb-16 17-Feb-16 25-Feb-16				I Wall - Bay 6	oof Slab - Bay 5			
SR8.VP.5220 SR8.VP.5230 Roof Slab SR8.VP.5280 SR8.VP.5290 SR8.VP.5300 Gallery for EP01 SR8.VP.5310 SR8.VP.5310	Wall - Bay 7 Roof Slab - Bay 5 Roof Slab - Bay 6 Roof Slab - Bay 7 Wall - Bay 1 to Bay 7 Koof Slab - Bay 1 to Bay 7	10 10 10 10 10 10 49	08-Dec-15A 12-Jan-16 15-Dec-15A 22-Jan-16 03-Feb-16 24-Dec-15	12-Jan-16 22-Jan-16 21-Jan-16 02-Feb-16 17-Feb-16				Wall - Bay 6	oof Slab - Bay 5			
SR8.VP.5220 SR8.VP.5230 SR8.VP.5280 SR8.VP.5290 SR8.VP.5300 Gallery for EP01 SR8.VP.5310 SR8.VP.5320 Rest Stab Wate	Wall - Bay 7 Roof Slab - Bay 5 Roof Slab - Bay 6 Roof Slab - Bay 7 Wall - Bay 1 to Bay 7 Wall - Bay 1 to Bay 7 Roof Slab - Bay 1 to Bay 7 Profile - Bay 1 to Bay 7	10 10 10 10 10 10 49 70	08-Dec-15A 12-Jan-16 15-Dec-15A 22-Jan-16 03-Feb-16 24-Dec-15 13-Jan-16	12-Jan-16 22-Jan-16 21-Jan-16 02-Feb-16 17-Feb-16 25-Feb-16 11-Apr-16				Wall - Bay 6	oof Slab - Bay 5			
SR8.VP.5220 SR8.VP.5230 Roof Slab SR8.VP.5280 SR8.VP.5290 SR8.VP.5300 Gallery for EP01 SR8.VP.5310 SR8.VP.5320 Roof Slab Wate SR8.VP.5330	Wall - Bay 7 Roof Slab - Bay 5 Roof Slab - Bay 6 Roof Slab - Bay 7 1 Wall - Bay 1 to Bay 7 Roof Slab - Bay 1 to Bay 7 Wall - Bay 1 to Bay 7 Wall - Bay 1 to Bay 7 Wall - Bay 1 to Bay 7 Waterproofing to Roof Slab - Bay 1 to Bay 7	10 10 10 10 10 10 49 70 7	08-Dec-15A 12-Jan-16 15-Dec-15A 22-Jan-16 03-Feb-16 24-Dec-15 13-Jan-16 18-Feb-16	12-Jan-16 12-Jan-16 22-Jan-16 21-Jan-16 02-Feb-16 17-Feb-16 25-Feb-16 11-Apr-16 25-Feb-16				Wall - Bay 6	oof Slab - Bay 5			
SR8.VP.5220 SR8.VP.5230 Roof Slab SR8.VP.5280 SR8.VP.5290 SR8.VP.5300 Gallery for EP01 SR8.VP.5310 SR8.VP.5320 SR8.VP.5310 SR8.VP.5320 SR8.VP.5320 SR8.VP.5320 SR8.VP.5320 SR8.VP.5330 SR8.VP.5330	Wall - Bay 7 Roof Slab - Bay 5 Roof Slab - Bay 6 Roof Slab - Bay 7 Wall - Bay 1 to Bay 7 Wall - Bay 1 to Bay 7 Roof Slab - Bay 1 to Bay 7 Profile - Bay 1 to Bay 7	10 10 10 10 10 10 49 70 7	08-Dec-15A 12-Jan-16 15-Dec-15A 22-Jan-16 03-Feb-16 24-Dec-15 13-Jan-16	12-Jan-16 22-Jan-16 21-Jan-16 02-Feb-16 17-Feb-16 25-Feb-16 11-Apr-16				Wall - Bay 6	oof Slab - Bay 5			
SR8.VP.5220 SR8.VP.5230 SR8.VP.5280 SR8.VP.5290 SR8.VP.5300 Gallery for EP01 SR8.VP.5310 SR8.VP.5320 Roof Slab Wate SR8.VP.5330 SR8.VP.5340 SR8.VP.5340	Wall - Bay 7 Roof Slab - Bay 5 Roof Slab - Bay 6 Roof Slab - Bay 7 Wall - Bay 1 to Bay 7 Roof Slab - Bay 1 to Bay 7 Wall - Bay 1 to Bay 7 Wall - Bay 1 to Bay 7 Screeding - Bay 1 to Bay 7	10 10 10 10 10 10 10 49 70 70 7	08-Dec-15A 12-Jan-16 22-Jan-16 03-Feb-16 24-Dec-15 13-Jan-16 18-Feb-16 26-Feb-16	12-Jan-16 12-Jan-16 22-Jan-16 02-Feb-16 17-Feb-16 25-Feb-16 11-Apr-16 25-Feb-16 04-Mar-16				Wall - Bay 6	oof Slab - Bay 5			
SR8.VP.5220 SR8.VP.5230 Roof Slab SR8.VP.5290 SR8.VP.5290 SR8.VP.5300 Gallery for EP01 SR8.VP.5310 SR8.VP.5320 Roof Slab Wate SR8.VP.5320 SR8.VP.5330 SR8.VP.5380	Wall - Bay 7 Roof Slab - Bay 5 Roof Slab - Bay 6 Roof Slab - Bay 7 Wall - Bay 1 to Bay 7 Wall - Bay 1 to Bay 7 Wall - Bay 1 to Bay 7 Warproofing to Roof Slab - Bay 1 to Bay 7 Screeding - Bay 1 to Bay 7 Fill Up Void Up to Portal Base Slab Bottom	10 10 10 10 10 10 49 70 70 7 7	08-Dec-15A 12-Jan-16 22-Jan-16 03-Feb-16 13-Jan-16 18-Feb-16 26-Feb-16 21-Dec-15	12-Jan-16 22-Jan-16 21-Jan-16 02-Feb-16 17-Feb-16 25-Feb-16 11-Apr-16 25-Feb-16 04-Mar-16 30-Dec-15			Fill Up Vpid Up to Porta	I Wall - Bay 6	oof Slab - Bay 5			
SR8.VP.5220 SR8.VP.5230 Roof Slab SR8.VP.5280 SR8.VP.5290 SR8.VP.5300 Gallery for EP01 SR8.VP.5310 SR8.VP.5320 Roof Slab Wate SR8.VP.5320 Roof Slab Wate SR8.VP.5330 SR8.VP.5330 SR8.VP.5380 SR8.VP.5380 SR8.VP.5380	Wall - Bay 7 Roof Slab - Bay 5 Roof Slab - Bay 6 Roof Slab - Bay 7 1 Wall - Bay 1 to Bay 7 Roof Slab - Bay 1 to Bay 7 Wall - Bay 1 to Bay 7 Screeding + Screeding Waterproofing to Roof Slab - Bay 1 to Bay 7 Fill Up Void Up to Portal Base Slab Bottom Wall Up to Portal Roof Bottom	10 10 10 10 10 10 10 70 7 7 7 7 10	08-Dec-15A 12-Jan-16 22-Jan-16 03-Feb-16 24-Dec-15 13-Jan-16 18-Feb-16 26-Feb-16 26-Feb-16 31-Dec-15	12-Jan-16 12-Jan-16 22-Jan-16 21-Jan-16 02-Feb-16 17-Feb-16 25-Feb-16 11-Apr-16 25-Feb-16 04-Mar-16 30-Dec-15 12-Jan-16			Fill Up Vpid Up to Porta	Wall - Bay 6	Bottom			
SR8.VP.5220 SR8.VP.5230 Roof Slab SR8.VP.5290 SR8.VP.5290 SR8.VP.5300 Gallery for EP01 SR8.VP.5310 SR8.VP.5320 Roof Slab Wate SR8.VP.5320 SR8.VP.5330 SR8.VP.5380	Wall - Bay 7 Roof Slab - Bay 5 Roof Slab - Bay 6 Roof Slab - Bay 7 Wall - Bay 1 to Bay 7 Wall - Bay 1 to Bay 7 Wall - Bay 1 to Bay 7 Warproofing to Roof Slab - Bay 1 to Bay 7 Screeding - Bay 1 to Bay 7 Fill Up Void Up to Portal Base Slab Bottom	10 10 10 10 10 10 49 70 70 7 7	08-Dec-15A 12-Jan-16 22-Jan-16 03-Feb-16 13-Jan-16 18-Feb-16 26-Feb-16 21-Dec-15	12-Jan-16 22-Jan-16 21-Jan-16 02-Feb-16 17-Feb-16 25-Feb-16 11-Apr-16 25-Feb-16 04-Mar-16 30-Dec-15			Fill Up Vpid Up to Porta	I Wall - Bay 6	Bottom			
SR8.VP.5220 SR8.VP.5230 Roof Slab SR8.VP.5280 SR8.VP.5290 SR8.VP.5300 Gallery for EP01 SR8.VP.5310 SR8.VP.5320 Roof Slab Wate SR8.VP.5320 Roof Slab Wate SR8.VP.5330 SR8.VP.5330 SR8.VP.5380 SR8.VP.5380 SR8.VP.5380	Wall - Bay 7 Roof Slab - Bay 5 Roof Slab - Bay 6 Roof Slab - Bay 7 1 Wall - Bay 1 to Bay 7 Roof Slab - Bay 1 to Bay 7 Wall - Bay 1 to Bay 7 Screeding + Screeding Waterproofing to Roof Slab - Bay 1 to Bay 7 Fill Up Void Up to Portal Base Slab Bottom Wall Up to Portal Roof Bottom	10 10 10 10 10 10 10 70 7 7 7 7 10	08-Dec-15A 12-Jan-16 22-Jan-16 03-Feb-16 24-Dec-15 13-Jan-16 18-Feb-16 26-Feb-16 26-Feb-16 31-Dec-15	12-Jan-16 12-Jan-16 22-Jan-16 21-Jan-16 02-Feb-16 17-Feb-16 25-Feb-16 11-Apr-16 25-Feb-16 04-Mar-16 30-Dec-15 12-Jan-16			Fill Up Vpid Up to Porta	I Wall - Bay 6	Bottom			

中國連禁工程(香港)介限公司 CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LTD.
 ◆ Milestone

Critical Remaining Work

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



ID	Activity Name	Original Duration		Finish	 2015		lee.				2016	
SR8.VP.5440	Slab for Pump Room	21	13-Jan-16	05-Feb-16	Dec		Jan			Sla	ab for Pump Ro	F oon
SR8.VP.5410	Access Chamber above Roof	14	29-Jan-16	17-Feb-16					-			
SR8.VP.5450	Slab for Elec. Room	21	29-Jan-16	25-Feb-16								
SR8.VP.5420	Backfill to Ground Level	10	05-Mar-16	16-Mar-16								
SR8.VP.5430	Construct Two Discharge Manholes	10	17-Mar-16	31-Mar-16								
	atement Works Including Removal of Strutingss	10								+	<u> </u>	_
SR8.VP.5050	Layer 3&2: Removal of Waling & Struts	7	02-Jan-16	09-Jan-16			Layer 3&2: Remov	al of Maling 8	Otruto			
							Layer 3&2: Remov	al of walling & a	, druits			
SR8.VP.5350	Layer 1: Removal of Waling & Struts	7	16-Mar-16	24-Mar-16								
	to Ch 210.000 - U-Structure & Slab (Victoria Park)								<u> </u>		<u> </u>	
Excavation and La												
SR8_2320	Remove Temporary Access to Bowling Green at Bay 3(CH230 to CH240) After Completion of BG & Pavilion	7	21-Dec-15	30-Dec-15		Remove Temporary A	ccess to Bowling Gr	een at Bay 3(C	1230 to CH240)	After Completion	of BG & Pavilio	วท
RC CCT & Backfill	Ch317.5000 to Ch240.000											
Structure												
Wall												
SR8_2120	Drainage Works	21	22-Feb-16	16-Mar-16								
Utility Through		1										
SR8_2050	Utility Trough	48	21-Dec-15	20-Feb-16					<u> </u>	÷	<u> </u>	-
Backfill & Reinsta	atement Works Including Removal of Struts											
SR8_1920	SR8 U structure - Backfilling & Compaction + Removal of Struts & Sheet Pile	60	22-Feb-16	05-May-16								
SR8_1920.10	Backfill and Compaction to North side and South side of U- Structure & Remove Struts by	60	22-Feb-16	05-May-16								
SR8 Structural Slal	layer b Ch.240.000 to Ch.210.000								<u> </u>		<u> </u>	_
SR8_2090B	Wall Sterm - Bay 3	7	31-Dec-15	08-Jan-16			Wall Sterm - Bay 3					
	/ & Subway Extension & Toe Wall at Hing Fat St											_
	bway Extension (Portion V)											_
	/8C at Tsing Fung Street (Portion V)											
									-			
VP_1770	Install Steel Railing on Top of RW8C	14	20-May-15 A	11-Jan-16			Install Steel R	ailing on Top of				
VP_1390	Demolish Top Portion of Existing Wall Head and Kerb	18	05-Jun-15 A	25-Jan-16					Demolish To	op Portion of Exist	ing Wall Head	а
VP_1400	Road Formation - Subbase + Kerb + U-shape Channel	48	25-Jan-16	24-Mar-16								-
Retaining Wall + To	foe Wall at Hing Fat Street											
Subway Extension	n at Tsing Fung Street (Portion VIII)											
VP_1375.50	TFS Subway extension - install Railing	8	05-Feb-16	13-Feb-16								I
East Side												
VP_1375.60.40	TFS Subway extension - Walls	18	21-Dec-15 A	11-Jan-16			TFS Subway	extension - Wa	lls			
VP_1375.60.50	TFS Subway extension - Roof Slab	21	12-Jan-16	04-Feb-16					<u> </u>	TFS :	Subway extens	si
RC Works - Toe Wa	all (RW8E)										1 1 1	
VP_6160	Sheet Piling and Excavation to Formation level	45	21-Dec-15	17-Feb-16					÷	+	÷	
VP_6180	Blinding layer	36	10-Mar-16	25-Apr-16								
otection Work	ks for IEC Abutment M									+		-
	Approvals and Implementation)								:	+		_
ABUTM_0910	Preparation and submission	36	20-Dec-15	24-Jan-16					Preparation a	ind submission		
ABUTM_0915	TMLG - review and approval	24	25-Jan-16	24-Feb-16							-	_
ABUTM_0920	TTA drawing endorsement	0		24-Feb-16								
ABUTM_0925	Apply and receive RWA	12	25-Feb-16	09-Mar-16								
	Trial Run			10-Mar-16								
ABUTM_0930		1	10-Mar-16									
ABUTM_0935	Implement TTA for site access and piling works	1	11-Mar-16	11-Mar-16						<u> </u>	<u> </u>	
esign Submissior												
ABUTM_0945	Prepare Shop Drawings for Temporary Works	24	20-Dec-15	12-Jan-16			Prepare Sh	nop Drawings fo	r Temporary Wo	rks		
ABUTM_0955	Engineer's Review and Approval - Temp Works	24	12-Jan-16	12-Feb-16								
ABUTM_0965	Prepare Shop Drawings for Permanent Works	24	12-Jan-16	12-Feb-16						+	F	Pr
ABUTM_0975	Engineer's Review and Approval - Permament Works	24	12-Feb-16	11-Mar-16							-	

中国連察工程(香港)介版公司 CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LTD.

Actual Work

Remaining Work

Critical Remaining Work

Milestone

Actual Work

Network

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



ivity ID	Activity Name	Original Duration	Start	Finish	2015	2016	
		Durudon			Jan		Feb
Method Statemer	nt						
ABUTM_0900	(01)Protection works method statement - submission	24	13-Jan-16	05-Feb-16		(01)Protection wo	orks metho
ABUTM_0940	(01)Protection works method statement - review and approval by AECOM	24	05-Feb-16	04-Mar-16			
Protection Works	s		,				
ABUTM_1060	Implement TTA for site access and piling works	0	21-Dec-15		 Implement TTA for site access and piling works 		
ABUTM_1000	Instruction to proceed with works received (945d)	0	21-Dec-15		 Instruction to proceed with works received (945d) 		
ABUTM_1020	Pre Bored H-pile at Victoria Rd - mobilization, set up + piling	30	12-Mar-16	20-Apr-16			
Works in Victo	ria Park	1					
Re-Provisioning	Works						
VP_1560	KD5 - Completion of Section 2 of Works (BG & Pavilion)	0		20-Dec-15	KD5 - Completion of Section 2 of Works (BG & Pavilion)		
Establishment W	lorks for Landscape Softworks						
KD11 - Section 7	7A: Portion XIV & XV (Victoria Park Open Space)						
EW_1000	Establishment Works - for Landscape Softworks and transplanted trees in Portion XIV & XV	901	23-Feb-15 A	13-Feb-18			
KD12 - Section 7	7B: Portion VI & VII (Reprov. Bowling Green Area)						
EW_1010	Establishment Works - for Landscape Softworks and transplanted trees in Portion VI & VII	365	03-Dec-15 A	02-Dec-16			-
Preservation and	d Protection of Trees		,				
PPT_0000	Preservation and Protection of Existing Trees	1088	21-Mar-13 A	20-Nov-16			<u> </u>
Mooring Comp	ponents Upkeep (CBTS and ATS)	1					
MAR_2000	Mooring Upkeep at Portion XIX(19) & XX(20) - ATS (if instructed by Engineer)	1399	21-Mar-13 A	17-Jan-17			<u> </u>
MAR_3020	Mooring Upkeep at Portion X(10) & XVI(16) - CBTS	979	15-May-14 A	21-Jan-17			
MAR_1000	Mooring Upkeep at Portion III (3) - CBTS	574	15-May-14 A	20-Dec-15	Mooring Upkeep at Portion III (3) - CBTS		
MAR_1010	Completion of KD 15 - Section 9 (Works in Portion III)	0		20-Dec-15	Completion of KD 15 - Section 9 (Works in Portion III)		
Works for Pub	lic Works Regional Laboratory (North Lantau)						
Maintenance and	I Upkeep of New PWRL (Portion XVII)						
PWRL 1050	Maintenance/ Upkeep of New PWRL	1301	19-Jul-13 A	21-Nov-17			<u> </u>

			Actual Work	Page 5 of 5	Date	
			Remaining Work		20-Dec-15	Updat
202	中國建築工程(Critical Remaining Work	Contract No. HY/2010/08: Central - Wanchai Bypass Tunnel +(Slip		
ebute	CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LTD.	• •	Milestone	Road 8 Section) - 3 Months Rolling Progamme		

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statem	ent - submission	¢.				
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	Revisio		Check		Арр	roved
date	d to 20th De	ec 2015	DML/W	5		

eSUEe	ま LEADER 中國建築 CHINA STATE - LE				Wan Chai Deve	et No. HK/2012/08 Pelopment Phase II ypass at Wan Chai West
ity ID	Activity Name F	Remaining Dur	Early Start	Early Finish	2015 Dec	Jan
K/2012/08	Three Months Rolling Programme (Dec 201	5 to Feb 20)16)			Jali
Dredging an	nd Reclamation					
Marine Wor	k Construction					
Zone A1						
Seawall Con	struction - Zone A1					
MAR10310	Zone A1 - seawall - Type 3 - fill rock mound	8	08-Jan-16	15-Jan-16		
MAR10312	Zone A1 - seawall - Type 3 - lay toe block and leveling	8	16-Jan-16	23-Jan-16		
MAR10320	stone Zone A1 - seawall - install block seawall type 3	8	24-Jan-16	31-Jan-16		
MAR10340	Zone A1 - seawall - place type A behind seawall Type	6	01-Feb-16	06-Feb-16		
MAR10345	3 Zone A1 - seawall - lay geotextile and filter behind	4	13-Feb-16	17-Feb-16		
Zone C	seawall Type 3					
Dredging - Z	Zone C					
MAR11520	Zone C - Cut existing pipe pile (2 nos.)	30	17-Dec-15	23-Jan-16		
Zone D			1, 500 15	20 5411 20		
	struction - Zone D					
Seawall 10 8						
		C	30-Nov-15	0E Dec 1E		
MAR20582	Zone D - fill rock mound for Seawall 10 & 11	6		05-Dec-15	I	
MAR20584	Zone D - lay toe block and level stone for Seawall 10 & 11	6	07-Dec-15	12-Dec-15		
MAR20605	Zone D - Install block seawall 10	14	14-Dec-15	31-Dec-15		_
MAR20610	Zone D - Install block seawall 11	14	15-Dec-15	02-Jan-16		•
Filling - Zone						
Filling at No						
MAR12160	Zone D - Sorted Public Fill up to +2.5mPD (north area)	12	04-Jan-16	16-Jan-16		
MAR12180	Zone D - Sorted & Compacted Public Fill from +2.5 to +4mPD (north area)	12	07-Jan-16	20-Jan-16		
Others - Land						
MAR21400	Zone D - [summary] landing steps at seawall 9	70	30-Nov-15	27-Feb-16		
Works for S	ection Completion					
Construction	n					
Section II - M	IVB Structure					
MVB Substru	ucture - ELS & Structural Works for Portion A					
MVB Substru	acture - Structural Works for Portion A					
SII11140	Sec II - MVB A - Remove Strut SL7 and SL6	5	30-Nov-15	04-Dec-15		
SII11160	Sec II - MVB A - Construct B3/F top slab, column and	53	10-Nov-15 A	02-Feb-16		
SII11180	wall Sec II - MVB A - Remove Strut SL5 and SL4	5	30-Nov-15	04-Dec-15		
SII11200	Sec II - MVB A - Construct 2/F top slab, colum and	57	03-Feb-16	19-Apr-16		

 Data Date:
 Current Milestone
 Date
 Revision

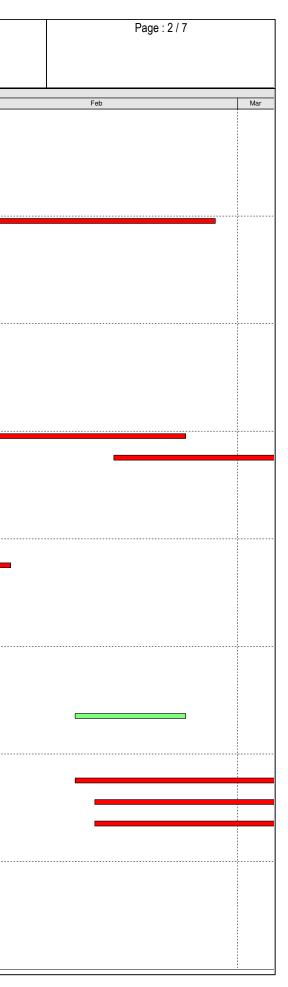
 30-Nov-15
 Actual Work
 29-Dec-15
 29-Dec-15

 Critical Remaining Work
 Morks Programme for non-CRIII Zones?Dec 2015 to Feb 2016)
 Image: Critical Remaining Work

 Remaining Level of Effort
 Remaining Level of Effort
 Image: Critical Remaining Work
 Image: Critical Remaining Work

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sion	Checked	Approved	

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	Activity Name	Remaining Dur	Early Start	Early Finish	2015						
220	Sec II - MVB A - Remove Strut SL3 and SL2	5	30-Nov-15	04-Dec-15	Dec	Jan					
280	Sec II - MVB A: Remove Strut SL1	5	30-Nov-15	04-Dec-15							
ıbstru	cture - ELS & Structural Works for Portion B										
Substrue	cture - Structural Works for Portion B										
11780	Sec II - MVB B: Construct B3/F base slab	6	29-Sep-15 A	05-Dec-15							
11800	Sec II - MVB B: Construct B3/F wall, colum & base	64	07-Dec-15	27-Feb-16							
11820	slab Sec II - MVB B: remove strut SL8, SL7	5	30-Nov-15	04-Dec-15							
11860	Sec II - MVB B: Remove Strut SL6 & SL5	5	30-Nov-15	04-Dec-15							
	Sec II - MVB B: Remove Strut SL4 & SL3										
11900		5	30-Nov-15	04-Dec-15							
11940	Sec II - MVB B: Remove Strut SL2	4	30-Nov-15	03-Dec-15							
	cture - Piling Works										
B C - Prebo	ored H Piles										
10400	Sec II - MVB C - construct prebored H-piles	37	20-Nov-15 A	14-Jan-16							
8 Substru	cture - Diaphragm Wall for Portion C										
B C - Pump	ping Test Preparation/ Pumping Test										
10660	Sec II - MVB C - sheetpile wall installation	30	15-Jan-16	24-Feb-16							
10680	Sec II - MVB C - Precaution grout / fissure grout	35	17-Feb-16	28-Mar-16							
on II A -	CWB Tunnel & Slip Road Structures and Facilities										
3 A2(2)											
B A2 (2) -	Dwall & Piling										
A15320	Sec II A - CWB A2 : construct Temp DWall (1.2m thk)	22	06-Oct-15 A	24-Dec-15							
A15360	Sec II A - CWB A2 : construct pre-bored H-pile	57	16-Nov-15 A	06-Feb-16							
A15400	Sec II A - CWB A2 : Dwall sonic test	40	03-Dec-15	21-Jan-16							
A15420	Sec II A - CWB A2 Loading Test for Prebored H-pile	15	30-Nov-15	16-Dec-15							
	Pumping Test Preparation/ Pumping Test										
	mping Test Preparation										
		20	17 Dec 15	22 Jac 10							
IA15440	Sec II A - CWB A2 : Install dewatering/ recharging/ observation well	30	17-Dec-15	23-Jan-16							
	- Pumping Test										
IA15460	Sec II A - CWB A2 : Pumping Test	10	13-Feb-16	24-Feb-16							
	ELS & Tunnel Structure										
/B A2 - ELS											
IA12440	Sec II A - CWB A2 : shoring & excavation	31	13-Feb-16	19-Mar-16							
IA12445	Sec II A - CWB A2 : demolition of temp bulk head wall at west end	30	15-Feb-16	19-Mar-16							
IA12448	Sec IIA - CWB A2 : demolition of temp bulk head wall at East end	30	15-Feb-16	19-Mar-16							
3 B (& A2											
B B - Dwal	I & Piling										
A11560	Sec II A - CWB B: Concrete Plug (MTR TWL)	15	15-Jun-15 A	16-Dec-15							
B B - ELS 8	& Tunnel Structure										
/B B - ELS											
	Sec II A - CWB B: Shoring & Excavation	26	22-Oct-15 A	31-Dec-15							



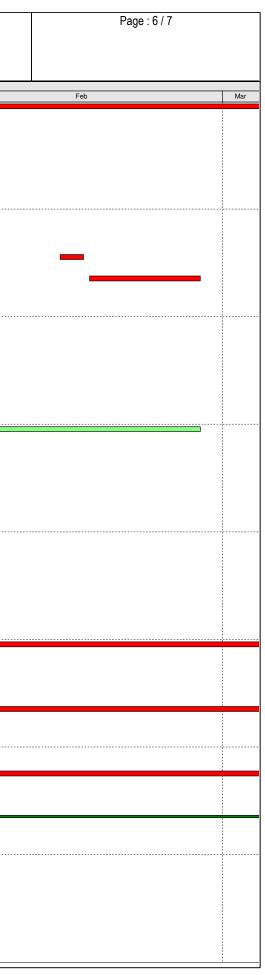
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Activity Name	Remaining Dur	Early Start	Early Finish	2015	2016	
SIIA13540 Sec II A - CWB B: Demolish Sheetpile Bulkhead wall at	35	30-Nov-15	12-Jan-16	Dec	Jan	Feb
Concrete Plug CWB B - Tunnel Structure						
SIIA13560 Sec II A - CWB B: base, wall, OHVD & roof (bay 1)	45	02-Jan-16	29-Feb-16			
SIIA13600 Sec II A - CWB B: base, wall, OHVD & roof (bay 2)	45	20-Jan-16	17-Mar-16			
SIIA13660 Sec II A - CWB B: base, wall, OHVD & roof (bay 3)	45	20-Jan-16	17-Mar-16			
WB C (W)						
CWB C(W) - Dwall Construction						
SIIA11960 Sec II A - CWB CW: Concrete Plug (MTR TWL)	14	16-Jun-15 A	15-Dec-15			
SIIA11980 Sec II A - CWB CW: D-wall contact grout / fissure	21	21-Aug-15 A	23-Dec-15			
grout SIIA12000 Sec II A - CWB CW: Dwall sonic test / interface core	19	17-Aug-15 A	21-Dec-15			
CWB C(W) - Pumping Test Preparation / Pumping Test						
	10	20 Nov 15	10 1-2 10			
SIIA12020 Sec II A - CWB CW: Install dewatering/ recharging/ observation wells	40	30-Nov-15	18-Jan-16			
SIIA12040 Sec II A - CWB CW: Pumping Test	8	19-Jan-16	26-Jan-16			
CWB C(W) - ELS & Tunnel Structure						
CWB C(W) - ELS						
SIIA12080 Sec II A - CWB CW: Shoring & Excavation	26	30-Nov-15	31-Dec-15			
SIIA12120 Sec II A - CWB CW: Demolish Sheetpile Bulkhead at	26	30-Nov-15	31-Dec-15			
Concrete Plug CWB C(W) - Tunnel Structure						
	45	02 lan 16	20 Eab 16			
SIIA12140 Sec II A - CWB CW: base, wall, OHVD & roof (bay 1)	45	02-Jan-16	29-Feb-16			
SIIA12180 Sec II A - CWB CW: base, wall, OHVD & roof (bay 2)	45	14-Jan-16	11-Mar-16			
WB C (E)						
CWB C(E) & Enabling Work - Dwall Construction						
SCL Enabling Work - Dwall Construction						
SIIA13085 Sec II A - CWB CE: Cut existing pipe piles (2 nos.)	30	30-Nov-15	06-Jan-16			
SIIA15520 Sec II - SCL Enabling Works - construct Dwall -	76	18-Feb-15 A	05-Mar-16			
Remaining [7 panels] CWB C(E) - Pumping Test Preparation/ Pumping Test						
			22.11.16			
SIIA13060 Sec II A - CWB CE: Grout curtain for Dwall	45	25-Jan-16	22-Mar-16			
SIIA13080 Sec II A - CWB CE: Dwall sonic test / interface core	45	25-Jan-16	22-Mar-16			
CWB C(E) - ELS & Tunnel Structure						
CWB C(E) - ELS						
SIIA13160 Sec II A - CWB CE: Shoring & Excavation(Uppn	45	30-Nov-15	23-Jan-16			
Completion of MVB Structure - B2 Slab) SIIA13170 Sec II A - CWB CE: Demolish Bulkhead at East End	26	22-Dec-15	23-Jan-16			
(adj. to bay 1) SIIA13180 Sec II A - CWB CE: Demolish Bulkhead at MVB (adj. to	30	17-Dec-15	23-Jan-16			
bay 3)	50	17-Dec-15	23-Jdii-10			
CWB C(E) - Tunnel Structure						
SIIA13220 Sec II A - CWB CE: base, wall, OHVD & roof (bay 1)	45	25-Jan-16	22-Mar-16			
SIIA13260 Sec II A - CWB CE: base, wall, OHVD & roof (bay 2)	45	17-Feb-16	13-Apr-16			
SIIA13280 Sec II A - CWB CE: base, wall, OHVD & roof (bay 3)	45	17-Feb-16	13-Apr-16			
WB C - Exhaust Duct						
CWB C - Exhaust Duct Piling						
	22	20 Nov 45	00 1 10			
SIIA12840 Sec II A - Exhaust Duct at Slip Rd3: Prebored H-pile	32	30-Nov-15	08-Jan-16			

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vity ID Activ	ivity Name	Remaining Dur	Early Start	Early Finish	2015 Dec		Jan	2016	Feb	Mar
SIIA12860 Sec	c II A - Exhaust Duct at Slip Rd3: Loading Test	21	09-Jan-16	02-Feb-16					1.00	
CWB C - Exhaust Du	uct Temp Work & ELS									
SIIA12880 Sec	c II A - Exhaust Duct at Slip Rd3: Temp. Sheetpiling	30	09-Jan-16	18-Feb-16						
SIIA12900 Sec	c II A - Exhaust Duct at Slip Rd3: Excavation &	35	19-Feb-16	30-Mar-16						
CWB D - Slip Road	oring									
CWB D - Slip Road 1	1 - Dwall Construction & Piling									
	c II A - CWB SR1: Concrete Plug (MTR TWL)	32	12-Aug-15 A	08-Jan-16						
	1 - Pumping Test Preparation/ Pumping Test	52	12 / 13 15 / 1	00 5411 10						
		60	30-Nov-15	16-Feb-16						
Dwa		60								
	c II A - CWB SR1: Dwall sonic test / interface core	60	30-Nov-15	16-Feb-16						
obs	c II A - CWB SR1: Install dewatering/ recharging/ servation wells	45	31-Dec-15	27-Feb-16						-
CWB D - Slip Road 1	1 - ELS & Tunnel Structure									
CWB D - Slip Road	1 - ELS									
SIIA12460 Sec	c II A - CWB SR1: Shoring & Excavation	37	30-Nov-15	14-Jan-16						
CWB D - Slip Road	1 - Tunnel Structure		· · · · ·							
	c II A - CWB SR1: Demolish Sheetpile Bulkhead at ncrete Plug	45	30-Nov-15	23-Jan-16						
	c II A - CWB SR1: base, wall & roof (bay 1)	40	15-Jan-16	07-Mar-16		C				
SIIA12520 Sec	c II A - CWB SR1: base, wall & roof (bay 2)	40	27-Jan-16	18-Mar-16	-					
SIIA12540 Sec	c II A - CWB SR1: base, wall & roof (bay 3)	40	13-Feb-16	30-Mar-16						
SIIA12560 Sec	c II A - CWB SR1: base, wall & roof (bay 4)	40	25-Feb-16	15-Apr-16						
CWB D - Slip Road	l 1 - Trough / Retaining Wall									
CWB D - Slip Road 1	1 - Trough/Retaining Wall Temp Work & ELS									
	c II A - CWB SR1 Trough & RW: Preboring for	14	29-Jan-16	19-Feb-16						
inst	talling Sheetpile c II A - CWB SR1 Trough & RW: install sheetpile	21	20-Feb-16	15-Mar-16						
	D11 & Part of Road P2, Area 4, Implement 1st 5		2010010	15 1101 10						
		Stage ITA								
Roadwork & Utilitie	les									
General										
mis	c III - 1st Stage of Interim Traffic Arrangement - scellaneous works	16	19-Jan-16	05-Feb-16						
Section III A - Road	d A2, A4, A5, Area 11; Implement 2nd Stage IT	A								
Roadwork & Utilitie	ies at A1									
	c III A - roadwork and utilities (Zone A1) - Backfill pavement founding level	70	18-Feb-16	16-May-16						
	Culvert La, L1 & FRP-L Construction									
Sec VI C - Box Culv	vert La bay 4 (North)									
CUL11660 Sec	c VI C - Culvert L - bay 4 - backfill	30	30-Nov-15	06-Jan-16						
Box Culvert L1 & FF	RP-L Construction (Bay 5 - Bay 7)									
Box Culvert L1 & F	FRP-L - Bay 5 to 7 Structure				·	 				
Box Culvert L1 & FR	RP-L - Precast Unit Fabrication (Box Structure)									
	c VI C - Culvert L - bay 4b - Construct precast	11	29-Jun-15 A	11-Dec-15						
culv	vert units with Bulkhead c VI C - Culvert L - bay 4b, 5-7 - dismantle	12	12-Dec-15	28-Dec-15						
forr	mwork and curing for precast culvert units		500 15	200 10						
Box Cuivert LI & F	FRP-L - Bay 5 & 6 Backfill & Others									

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y ID	Activity Name	Remaining Dur	Early Start	Early Finish	2015 Dec	Jan	2016 Feb		
CUL10878	Sec VI C - Culvert L - bay 5, 6 - backfill to +4.0mPD	30	22-Oct-15 A	06-Jan-16		Jan	160		
CUL10879	Sec VI C - Culvert L - bay 5, 6 - trim to formation level	10	07-Jan-16	18-Jan-16					
Box Culvert	and handover Area 6 L1 & FRP-L - Bay 7 Backfill & Others								
CUL11785	Sec VI C - Culvert L - bay 7 - Diversion of flow from	5	15-Feb-16*	19-Feb-16					
	temp channel into Cul L								
CUL11800	Sec VI C - Culvert L - bay 7 - backfill to +4.0mPD	35	20-Feb-16	31-Mar-16					
Box Culvert I	L1 & FRP-L - Bay 12 to 13								
Box Culvert	L1 & FRP-L - Bay 12 to 13 Piling								
CUL12356	Culvert L - bay 13 - construct pre-bored H-pile (PC10	30	01-Dec-15*	07-Jan-16					
Box Culvert	& PC11) L1 & FRP-L - Bay 12 to 13 Temp Work & ELS								
CUL12480	Culvert L - bay 12 & 13 - pile head treatment and	30	08-Jan-16	17-Feb-16					
Box Culvert	construct pile cap PC9, PC10 & PC11 L1 & FRP-L - Bay 12 to 13 Structure								
CUL12545	Culvert L - bay 12 & 13 - Construct Precast Units (off	45	08-Dec-15*	01-Feb-16					
	site)								
CUL12548	Culvert L - bay 12 & 13 - Deliver and Install Precast Units	7	18-Feb-16	25-Feb-16					
Section VI C	- Area 3, 6, 8A & 8C								
Area 8A & 8	C - Seawall Modification								
Modification	of Seawall								
Modificatio	n of Seawall - Zone 1 & 2								
PRS10060	Sec VIC - Working Platform & P7 to P17, P18,	10	30-Nov-15	10-Dec-15					
PRS10080	P18A,P23,P24, P32 -P34 & P32A-P34A (DTH) Sec VIC - Working Platform & P59, P59A, P60, P60A,	39	21-Dec-15	06-Feb-16					
PRS10085	P61, P61A, P62, P62A, P63-P66 (DTH) Sec VIC - Curtain Grout (DTH)	49	11-Dec-15	15-Feb-16					
			11-Det-15	15-160-10					
	n of Seawall - Zone 4								
PRS10160	Sec VIC - Working Platform (Zone 4)	8	30-Nov-15	08-Dec-15					
PRS10180	Sec VIC - Pipe Pile P63 to P68 & P64A (Zone 4)	10	09-Dec-15	19-Dec-15					
Area 8A - M	TR Pump Room Clearance & Handover								
PRS-1060	Sec VI C - Clearance of pump house for Handover	5	04-Feb-16	15-Feb-16					
Area 6 - Box	c Culvert bay 5-6								
SVIC10020	Sec VI C - backfill to formation level at Area 6	30	30-Nov-15	06-Jan-16					
SVIC10040	Sec VI C - U-Channel and ug utilities at Area 6	18	07-Jan-16	27-Jan-16					
		10	07-3411-10	27-341-10					
	Culvert bay 4 and Roadwork								
SVIC10240	Sec VI C - reinstate and compact sub-base above Culvert L Bay 4 in Area 3	7	07-Jan-16	14-Jan-16					
SVIC10260	Sec VI C - reinstate road kerb in Area 3	6	07-Jan-16	13-Jan-16					
SVIC10280	Sec VI C - reinstate flexible pavement in Area 3	6	14-Jan-16	20-Jan-16					
SVIC10300	Sec VI C - reinstate footpath in Area 3	5	21-Jan-16	26-Jan-16					
SVIC10320	Sec VI C - reinstate traffic sign and road marking in	1	26-Jan-16	26-Jan-16		•			
Section VI D	Area 3 - Area 8B & 10								
	Construction								
	Submission and Approval / Material Procurement								
PCU60410	Sec VI D - WD II Box 1 - Prepare Subcontract for Box 1 structure	29	02-Jan-16*	04-Feb-16					
WDII Box 1	Existing Pile Head and Dry Dock								
WD-C3030	Sec VI D - form dry dock / waterproofing for Box 1	26	15-Oct-15 A	31-Dec-15					

	LEADER 中國建築 CHINA STATE - L				CEDD Contract No. Wan Chai Developn Central - Wan Chai Bypass	nent Phase II
	Activity Name	Remaining Dur	Early Start	Early Finish	2015 Dec	1
C3032	Sec VI D - Construct Box 1 (bottom slab and temp bulk	54	06-Feb-16	19-Apr-16	Dec	Jan
I Box I Fx	head wall) kisting Pile Head Treatment					
			00. N 45	10.0.15		
10260	Sec VIC - Pile Head at Pile A3	12	30-Nov-15	12-Dec-15		
10280	Sec VIC - Pile Head at Pile A4	13	14-Dec-15	30-Dec-15		
10300	Sec VIC - Pile Head at Pile B3	13	31-Dec-15	15-Jan-16		
10320	Sec VIC - Pile Head at Pile B4	12	16-Jan-16	29-Jan-16		
Box 1 EL	S					
C3995	Sec VIC - Removal of Platform of Bored Pile	2	13-Feb-16	15-Feb-16		
C3998	Sec VIC - Install Column, C1, Struct S1 & RS1	- 11	16-Feb-16	27-Feb-16		
		11	10-FeD-10	27-FeD-10		
n VII - R	emainder Works					
ng Steps	Construction					
ng Steps	BSW9					
11100	Sec VII - Landing steps (BSW9) - construct mass	24	30-Nov-15	29-Dec-15		
11120	concrete coping Sec VII - Landing steps (BSW9) - curing and dismantle	14	30-Dec-15	15-Jan-16		
11140	formwork Sec VII - Landing steps (BSW9) - install vertical fender	9	16-Jan-16	26-Jan-16		
	/ step fender					
11160	Sec VII - Landing steps (BSW9) - install s.s. handrail / tactile / sign board / bollard	23	27-Jan-16	27-Feb-16		
lition of	Interim Landing Steps and Construct Permanent Se	eawall at CRI	II			
0220	Sec VII - remove interim landing steps - protect open	2	30-Nov-15	01-Dec-15		
0240	cut slope Sec VII - remove interim landing steps - remove old	6	02-Dec-15	08-Dec-15		
0260	seawall wall blocks Sec VII - seawall - remove old rubble mound and	6	09-Dec-15	15-Dec-15		
0280	dredging Sec VII - seawall - final hydrographic survey	7	16-Dec-15	23-Dec-15		
0300	Sec VII - seawall - [summary] fill rubble mound	13	02-Oct-15 A	14-Dec-15		
0320	Sec VII - seawall - [summary] place caisson seawall type 1B(4), 2D and 1	27	02-Nov-15 A	02-Jan-16		
0380	Sec VII - seawall - backfill behind seawall to pavement formation	26	04-Jan-16	02-Feb-16		
enade Se	eawall Parapet Construction					
0400	Sec VII - construct block seawall mass concrete coping	120	30-Nov-15*	30-Apr-16		
n VIII - I	& backfill to pavement formation					
	ing Works					
10040	Sec VIII - Trees Planting	180	18-Dec-15	02-Aug-16		
n X - Pro	tection & Preservation of Trees					
andscap	ing Works					
)20	Sec X - Protection & Preservation of Trees	600	31-Jan-13 A	21-Jul-17		
onstruc	ction of Box 4A & 4B					
	Summary of Variation Order: Box 4A & 4B	130	15-Jan-16	23-May-16		
		100	10 5011 10	20 110/ 10		
4						
	Summary of concrete fill with 300 dia. carrier drain, 5 bays (ave. t = 1.875m x approx. 50m)	15	15-Jan-16	01-Feb-16		
	Concrete fill with 300 dia. carrier drain: bay 1	3	15-Jan-16	18-Jan-16		
	Concrete fill with 300 dia. carrier drain: bay 2	3	19-Jan-16	21-Jan-16		
	Concrete fill with 300 dia. carrier drain: bay 3	3	22-Jan-16	25-Jan-16		
	Concrete fill with 300 dia. carrier drain: bay 4	3	26-Jan-16	28-Jan-16		
	concrete mi with 500 tila, carrier tildill. Day 4	J	20-3011-10	20-Jan=10		



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Activity ID	Activity Name	Remaining Dur	Early Start	Early Finish	2015 Dec	2016 Jan		
A1015	Concrete fill with 300 dia. carrier drain: bay 5	3	29-Jan-16	01-Feb-16				
A1020	Summary of falseworks & fomworks for internal suspended slab	46	19-Jan-16	04-Mar-16				
A1021	Falseworks & fomworks for internal suspended slab: bay 1	7	19-Jan-16	26-Jan-16				
A1022	Falseworks & fomworks for internal suspended slab: bay 2	7	27-Jan-16	03-Feb-16				
A1023	Falseworks & fomworks for internal suspended slab: bay 3	7	04-Feb-16	17-Feb-16				
A1024	Falseworks & fomworks for internal suspended slab: bay 4	7	18-Feb-16	25-Feb-16				
A1025	Falseworks & fomworks for internal suspended slab: bay 5	7	26-Feb-16	04-Mar-16				
A1030	Summary of internal suspended slab, 5 bays (t = 200mm x approx. 50m)	45	27-Jan-16	11-Mar-16				
A1031	Internal suspended slab - bay 1: rebars & casting	6	27-Jan-16	02-Feb-16				
A1032	Internal suspended slab - bay 2: rebars & casting	6	04-Feb-16	16-Feb-16				
A1033	Internal suspended slab - bay 3: rebars & casting	6	18-Feb-16	24-Feb-16				
A1034	Internal suspended slab - bay 4: rebars & casting	6	26-Feb-16	03-Mar-16				
A1040	Summary of internal wall, 5 bays (t = 200mm x approx. 50m)	45	03-Feb-16	18-Mar-16				
A1041	Internal wall - bay 1: rebars, formworks & casting	6	03-Feb-16	15-Feb-16				
A1042	Internal wall - bay 2: rebars, formworks & casting	6	17-Feb-16	23-Feb-16				
A1043	Internal wall - bay 3: rebars, formworks & casting	6	25-Feb-16	02-Mar-16				

