

Lam Geotechnics Limited

CONTRACT NO: HK/2015/01

WANCHAI DEVELOPMENT PHASE II AND CENTRAL WANCHAI BYPASS SAMPLING, FIELD MEASUREMENT AND TESTING WORKS (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

MONTHLY ENVIRONMENTAL MONITORING & AUDIT REPORT

SEPTEMBER 2016 -

CLIENTS:

Civil Engineering and Development Department

and

Highways Department

PREPARED BY:

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CERTIFIED BY:

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Raymond Dai Environmental Team Leader

DATE:

14 October 2016



Ref.: AACWBIECEM00_0_8608L.16.docx

14 October 2016

By Post and Fax (3912 3010)

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

Attention: Mr. Peter Poon

Dear Mr. Poon,

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

Monthly Environmental Monitoring and Audit Report (September 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 Monthly Environmental Monitoring and Audit (EM&A) Report for September 2016 received by e-mail on 14 October 2016 for our review and comment.

Please be informed that we have no adverse comment on the captioned submission. We write to verify the captioned submission in accordance with Condition 3.4 in the captioned Environmental Permits.

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.

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EXECUTIVE SUMMARY

i. This is the Environmental Monitoring and Audit (EM&A) Monthly Report – September 2016 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 findings and information recorded during the period of 27th August 2016 to 26th September 2016. The cut-off date of reporting is at 26th of each reporting month.

Construction Activities for the Reported Period

- ii. During this reporting period, the major work activities for Contract no. HK/2009/01 included:
 Nil
- iii. During this reporting period, the major work activities for Contract no. HK/2009/02 included:
 Nil
- iv. During this reporting period, the major work activities for Contract no. HY/2009/15 included:
 - Reinstatement of vertical seawall at TPCWAE
 - Removal of temporary reclamation at TPCWAW
 - Diaphragm wall cutting works at TPCWAW
 - Reinstate the seawall at Portion XI
- v. During this reporting period, the major work activities for Contract no. HY/2009/19 included:
 Nil
- vi. During this reporting period, the major work activities for Contract no. HK/2012/08 included:
 - Precast unit construction for Box 1 inside Dry dock
 - Construction of culvert L Bay 8, Bay 12 and Bay 13
- vii. During this reporting period, the major work activities for Contract no. HY/2010/08.
 - Diversion pipe maintenance
 - Diaphragm Wall Removal Works

Noise Monitoring

- viii. With respect to the shift in major construction site portions at Wan Chai North, the noise monitoring station M1a – Harbour Sports Centre was finely adjusted from East of Harbour Road Sports Centre to West of Harbour Road Sports Centre on 21 June 2016.
- ix. No action or limit level exceedance was recorded in this reporting month.



Noise monitoring during daytime and restricted hour were conducted at the stations M1a, M2b,
 M3a, M4b, M5b and M6 on a weekly basis in the reporting month.

Air Quality Monitoring

- xi. Due to interruption of electricity supply, the 24hr was rescheduled as follows: CMA5b monitoring station was rescheduled from 19 September 2016 to 20 September 2016.
- xii. The odour patrol along the odour route with 7 sniffing locations was conducted by a qualified odour patrol member on 13 September 2016 and 26 September 2016 at the concerned hours (afternoon for higher daily temperature). No action and limit level was recorded during this reporting month.
- xiii. One 1hr TSP action level exceedance was recorded at CMA5b Pedestrian Plaza on 14 September 2016 in the reporting month.
- xiv. 1-hour and 24-hour Total Suspended Particulates (TSP) monitoring were conducted at CMA1b – Oil Street Site Office; CMA2a – Causeway Bay Community Center; CMA3a – CWB PRE Site Office Area; CMA4a – Society for the Prevention of Cruelty to Animals; CMA5b – Pedestrian Plaza; CMA6a – WDII PRE Site Office in the reporting month.

Water Quality Monitoring

- xv. As advised by the Contractor of HK/2009/01, all silt screen remains removal works at P1, P3,
 P4, P5 and C1 water quality monitoring stations were completed on 8 May 2016.
- xvi. 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.
- xvii. 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.
- xviii. 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.

Contract no.	Water quality	Mid-flood				Mid-ebb							
	monitoring	D	0	Turb	idity	S	S	D	0	Turb	oidity	S	S
	Station	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL
HK/2009/01 & HK/2009/02	C1	0	0	0	1	0	0	0	0	0	0	0	0
	WSD19	0	0	1	5	0	0	0	0	1	1	0	0
	P1	0	0	0	0	0	0	0	0	0	0	0	0
HK/2012/08	P3	0	0	0	0	0	0	0	0	0	0	0	0
	P4	0	0	0	1	0	0	0	0	0	0	0	0
	P5	0	0	0	1	0	0	0	0	0	0	0	0
HK/2009/02	RW21-P789	0	0	2	0	0	0	0	0	0	0	0	0
HY/2009/15 & HY/2010/08	C7	0	0	0	1	0	0	0	0	0	0	0	0
Total		0	0	3	9	0	0	0	0	1	1	0	0

Table I Summary of Water Quality Monitoring Exceedances in Reporting Month



- Remarks: The cessation of seawater intake operation for C6 was confirmed on 17 May 2011 and the water quality monitoring at C6 was then terminated since 17 May 2011.
 - 4-week post construction water quality monitoring at WSD9, WSD10, WSD15 and WSD17 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 4 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 22 Apr 2013
 - P1, P3, P4 and P5 were commenced since 24 Apr 2013
 - C5e and C5w water quality monitoring station was temporarily suspended since 29 Jul 2013.
 - WSD21 water quality monitoring station was temporarily suspended since 12 Mar 2014
 - WSD9 and WSD17 water quality monitoring station was temporarily suspended since 8 Sep 2014 flood tide.
 - The water quality monitoring station C1 shall be associated with Contract No. HK/2009/02 upon commencement of marine works under DP3 at WCR3 area.
- xix. There were 4 action and 10 limit level of turbidity exceedances recorded in the reporting month.
- xx. Investigation found that the turbidity exceedances recorded in this reporting month were not related to Project works. The details of the recorded exceedance can be referred to the **Section 6.4**.
- xxi. Enhanced DO monitoring at 3 monitoring stations in Causeway Bay Typhoon Shelter and Ex-Public Cargo Works Area was conducted three days per week during the reporting period. The action and limit level exceedances of water quality monitoring are summarized in *Table II*.

		Mid-f	lood	Mid-ebb	
Contract no.	Water quality monitoring Station	D	0	DO	
	ine ne ng eta ien	AL	LL	AL	LL
HY/2009/15 & HY/2010/08	C6	0	0	0	0
HY/2009/15	Ex-WPCWA SW	0	1	0	3
	Ex-WPCWA SE	0	1	0	0
Tota	0	2	0	3	

Table IISummary of Enhanced Dissolved Oxygen Monitoring Exceedances inReporting Month

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



xxii. There was no action level and 5 limit level exceedances recorded for enhanced dissolved oxygen monitoring in this reporting month. Investigation found that the exceedance was not related to Project works. The details of the recorded exceedances can be referred to the Section 6.4.

Complaints, Notifications of Summons and Successful Prosecutions

xxiii. There was no environmental complaint received in this reporting month.

Site Inspections and Audit

- xxiv. The Environmental Team (ET) conducted weekly site inspections for Contract nos. HK/2009/01, HK/2009/02, HY/2009/15, HY/2009/19, HK/2012/08 and HY/2010/08 under EP no. EP-356/2009 in the reporting month. Major observations and recommendations made during the audit sessions were rectified by the Contractors. No non-conformance was identified during the site inspections. Future Key Issues
- xxv. In coming reporting month, the principal work activities of individual contracts are anticipated as follows:

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

• Nil

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

• Nil

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

- Removal of temporary reclamation at TPCWAW
- Reinstatement of existing seawall at TPCWAE
- Diaphragm wall cutting works at TPCWAW
- Reinstate the seawall at Portion XI

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

• Nil

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



- Precast unit construction for Box 1 inside Dry dock
- Construction of culvert L Bay 8, Bay 12 and Bay 13

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

- Diversion pipe maintenance
- Diaphragm Wall Removal works



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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 10.3 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 for Environmental Permit no. EP-356/2009, Further Environmental Permit no. FEP-02/356/2009, FEP-03/356/2009, FEP-04/356/2009, FEP-06/356/2009 and FEP-07/356/2009 during the period of 27th August 2016 to 26th September 2016. The cut-off date of reporting is at 26th of each reporting month.

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 Status of Regulatory Compliance summarizes the status of valid Environmental Permits / Licenses during the reporting period.
- Section 4 *Monitoring Requirements* summarizes all monitoring parameters, monitoring methodology and equipment, monitoring locations, monitoring frequency, criteria and respective event and action plan and monitoring programmes.
- **Section 5** *Monitoring Results* summarizes the monitoring results obtained in the reporting period.
- Section 6 Compliance Audit summarizes the auditing of monitoring results, all exceedances environmental parameters.
- 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 Environmental Site Audit** summarizes the findings of weekly site inspections undertaken within the reporting period, with a review of any relevant follow-up actions within the reporting period.
- Section 9 Complaints, Notification of summons and Prosecution summarizes the cumulative statistics on complaints, notification of summons and prosecution
- Section 10 Conclusion



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



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- 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.

Item	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, 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.
- 2.3.2. The details of individual contracts are summarized in *Table 2.2*.



Contract No.	Contract Title	Associated DP(s)	Construction Commencement Date
HK/2009/01	Wan Chai Development Phase II –	DP3, DP6	23 July 2010
	Central –Wanchai Bypass at Hong Kong 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 Point Reclamation	DP3	17 March 2010 (Completed)
HY/2009/15	Central-Wanchai Bypass – Tunnel	DP3	10 November 2010
	(Causeway Bay Typhoon Shelter Section)	DP1	13 July 2011
HK/2010/06	Wan Chai Development Phase II-Central-Wan Chai Bypass over MTR Tsuen Wan Line	DP3	22 March 2011 (Completed)
04/HY/2006	Reconstruction of Bus Terminus near Man Yiu Street and Man Kwong Street	DP1	September 2010 (Completed)
HY/2009/17	Central – Wan Chai Bypass (CWB) at FEHD Whitfield Depot – Advanced piling works.	DP1	5 October 2010 (Completed)
HY/2009/18	Central – Wan Chai Bypass (CWB) – Central Interchange	DP1	21 April 2011
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	10 March 2014
HY/2010/08	Central- Wanchai Bypass Tunnel – Tunnel (Slip Road 8)	DP1, DP2, DP3	21 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

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	Contractor under Contract no.	Project Manager	Mr. Simon Liu	9304 8355	2587 1878	
Joint HK/2009/01 Venture	Site Agent	Mr. Andy Yu	9648 4896			
	Construction Manager	Mr. Terry Wong	9757 9846			
		Construction Manager	Mr. Wyman Wong	9627 2467		
		Construction Manager	Mr. Terry Tsang	6683 9394		
		Environmental Officer	Ms. Wendy Ng	9803 0057		
		Assistant Environmental Engineer	Miss. Connie Chan	6157 7057		
Chun Wo –		Project Manager	Mr. Paul Yu	3658-3085	2827 9996	
CRGL Joint Venture	Contract no. HK/2009/02	Quality & Environmental Manager	Mr. C.P. Ho	9191 8856		
China	Contractor under	Project Director	Chris Leung	3557 6393	2566 2192	
State Constructi	Contract no. HY/2009/15	Site Manager	Y Huo	3557 6368		
on Engineerin g (HK) Ltd.		Contractor's Representative	Rex Lau	3557 6405		
g (IIII) Etd.		Environmental Officer	Andy Mak	3557 6347		
Chun Wo –	Chun Wo – Contractor under Projec CRGL – Contract no.		Rayland Lee	3758 6788	2570 8013	
MBEC_	HY/2009/19	Site Agent	David Lau	3758 8879		
Joint Venture		Deputy Site Agent	Eric Fong	6191 9337		
venture		Environmental Manager / Environmental Officer	M.H. Isa	9884 0810		
		Construction Manager (Marine)	Andy Chan	9879 4325		
		Construction Manager (Land)	Bear Ding	6483 6198	1	
		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		

Table 2.3 Contact Details of Key Personnel



Party	Role	Post	Name	Contact No.	Contact Fax
		Environmental Officer	James Ma	9130 9549	
		Environmental Supervisor	Y. L. Ho	9856 5669	
China State	Contractor under Contract no. HY/2010/08	Project Director	Chris Leung	3467 4299	2566 8061
		Project Manager	Chan Ying Lun	3418 3001	
		Site Agent	Andrew Wong	3467 4371	
		Environmental Officer	Gabriel Wong	35576466	
		Environmental Supervisor	Desmond Ho Tsz Ho	3557 6466	
Leighton Contractor under		Project Manager	Paul Evans	2823 1111	21406799
Joint Venture	Contract no. HY/2011/08	Site Agent	Colman Wong	9730 0806	
		Environmental Officer	David Hung	9765 6161	
		Environmental Supervisor	Penny Yiu	2214 7738	
Ramboll Environ Hong Kong Limited	Independent Environmental Checker (IEC)	Independent Environmental Checker (IEC)	Mr. David Yeung	3465 2888	3465 2899
Lam Geotechni cs Limited	Environmental Team (ET)	Environmental Team Leader (ETL)	Mr. Raymond Dai	2882 3939	2882 3331

2.4.3. For Contract no. HK/2009/01, the principal work activities in this reporting month included:

• Nil

2.4.4. For Contract no. HK/2009/02, the principal work activities in this reporting month included:

• Nil

- 2.4.5. For Contract no. HY/2009/15, the principal work activities in this reporting month included:
 - Reinstatement of vertical seawall at TPCWAE
 - Removal of temporary reclamation at TPCWAW
 - Diaphragm wall cutting works at TPCWAW
 - Reinstate the seawall at Portion XI



- 2.4.6. For Contract no. HY/2009/19, the principal work activity in this reporting month included:
 - Nil
- 2.4.7. For Contract no. HK/2012/08, the principal work activity in this reporting month included:
 - Precast unit construction for Box 1 inside Dry dock
 - Construction of culvert L Bay 8, Bay 12 and Bay 13
- 2.4.8. For Contract no. HY/2010/08, no principal work activities this reporting month.
 - Diversion pipe maintenance
 - Diaphragm Wall Removal Works
- 2.4.9. In coming reporting month, the principal work activities of individual contracts are anticipated as follows:

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

• Nil

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

• Nil

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

- Removal of temporary reclamation at TPCWAW
- Reinstatement of existing seawall at TPCWAE
- Diaphragm wall cutting works at TPCWAW
- Reinstate the seawall at Portion XI

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

• Nil

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

- Precast unit construction for Box 1 inside Dry dock
- Construction of culvert L Bay 8, Bay 12 and Bay 13



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

- Diversion pipe maintenance
- Diaphragm Wall Removal Works



3 Status of Regulatory Compliance

3.1 Status of Environmental Licensing and Permitting under the Project

3.1.1. A summary of the current status on licences and/or permits on environmental protection pertinent to the Project is shown in *Table 3.1*.

Table 3.1 Summary of the current status on licences and/or permits on environmental protection pertinent to the Project

Permits and/or Licences	Reference No.	Issued Date	Status
Environmental Permit	EP-356/2009	30 Jul 2009	Valid
Environmental Permit	EP-364/2009	17 Aug 2009	Superseded
Environmental Permit	EP-364/2009/A	4 Aug 2010	Superseded
Environmental Permit	EP-364/2009/B	20 Sep 2012	Superseded
Environmental Permit	EP-364/2009/C	11 Jul 2014	Superseded
Environmental Permit	EP-364/2009/D	24 Nov 2016	Valid
Environmental Permit	EP-376/2009	13 Nov 2010	Valid
Further Environmental Permit	FEP-01/356/2009	18 Feb 2010	Surrendered
Further Environmental Permit	FEP-02/356/2009	24 Mar 2010	Valid
Further Environmental Permit	FEP-03/356/2009	24 Mar 2010	Valid
Further Environmental Permit	FEP-04/356/2009	22 Nov 2010	Valid
Further Environmental Permit	FEP-05/356/2009	24 Mar 2011	Surrendered
Further Environmental Permit	FEP-01/364/2009	24 Mar 2010	Valid
Further Environmental Permit	FEP-02/364/2009	21 Apr 2010	Valid
Further Environmental Permit	FEP-03/364/2009	12 Jul 2010	Surrendered
Further Environmental Permit	FEP-04/364/2009/A	14 Oct 2010	Surrendered
Further Environmental Permit	FEP-05/364/2009/A	15 Nov 2010	Valid
Further Environmental Permit	FEP-06/364/2009/A	22 Nov 2010	Valid
Further Environmental Permit	FEP-07/364/2009/B	20 Sep 2012	Surrendered
Further Environmental Permit	FEP-07/364/2009/D	24 Nov 2015	Valid
Further Environmental Permit	FEP-08/364/2009/A	15 Jun 2012	Surrendered
Further Environmental Permit	FEP-06/356/2009	5 Mar 2013	Valid
Further Environmental Permit	FEP-07/356/2009	26 July 2013	Valid



Permits and/or Licences	Reference No.	Issued Date	Status
Further Environmental Permit	FEP-09/364/2009/B	5 March 2013	Valid
Further Environmental Permit	FEP-10/364/2009/B	26 July 2013	Valid
Further Environmental Permit	FEP-11/364/2009/B	2 May 2014	Valid

3.1.2. 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

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

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

3.1.4. Summary of the current status on licences and/or permits on environmental protection pertinent and submission for contract no. HK/2009/01 under FEP-02/356/2009 are shown in *Table 3.2* and *Table 3.3*.

Table 3.2 Cumulative Summary of Valid Licences and Permits under Contract no.	
HK/2009/01	

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental	FEP-02/356/2009	24 Mar 2010	N/A	Valid
Permit	FEP-02/364/2009	21 Apr 2010	N/A	Valid
Notification of Works Under APCO	313088	06 Jan 2010	N/A	Valid
Construction Noise Permit	GW-RS0384-16	19 Apr 2016	22 Apr 2016 to 19 Oct 2016	Valid
(CNP) for non-piling equipment	GW-RS0435-16	03 May 2016	08 May 2016 to 07 Nov 2016	Valid
	GW-RS0482-16	17 May 2016	19 May 2016 to 18 Nov 2016	Valid
	GW-RS0486-16	17 May 2016	19 May 2016 to 18 Nov 2016	Valid
	GW-RS0488-16	17 May 2016	19 May 2016 to 18 Nov 2016	Valid



Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
	GW-RS0492-16	20 May 2016	23 May 2016 to 22 Nov 2016	Valid
	GW-RS0493-16	20 May 2016	23 May 2016 to 22 Nov 2016	Valid
	GW-RS0495-16	20 May 2016	19 May 2016 to 18 Nov 2016	Valid
	GW-RS0592-16	13 Jun 2016	15 Jun 2016 to 12 Dec 2016	Valid
	GW-RS0636-16	20 Jun 2016	21 Jun 2016 to 19 Dec 2016	Valid
	GW-RS0822-16	28 Jul 2016	7 Aug 2016 to 31 Jan 2017	Valid
Discharge Licence	WT00024952-2016	6 Jul 2016	31 Jul 2021	Valid
	WT00024844-2016	29 Jun 2016	31 Mar 2020	Valid
Billing account under Waste Disposal Ordinance	7010069	21 Jan 2010	N/A	Valid
Registration as a Chemical Waste Producer	WPN5213-134-C3585-01	21 Jan 2010	N/A	Valid
Dumping Permit (Type 1 – Open Sea Disposal)	-	-	-	-
Dumping Permit (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal)	-	-	-	-

Table 3.3 Summary of submission status under FEP-02/356/2009 Condition

EP Condition	Submission	Date of Submission
Condition 2.6	Management Organization of Main Construction Companies	13 Apr 2010
Condition 2.7	Works Schedule and Location Plan	8 Apr 2010
Condition 2.8	Silt Curtain Deployment Plan (Rev. 5)	24 Aug 2012



EP Condition	Submission	Date of Submission
	Silt Curtain Deployment Plan (Rev. 4)	12 July 2012
	Silt Curtain Deployment Plan (Rev. 3)	27 June 2012
	Silt Curtain Deployment Plan	19 Apr 2010
	Silt Screen Deployment Plan (Rev. 9)	5 Nov 2015
	Silt Screen Deployment Plan (Rev. 8)	7 Sep 2015
	Silt Screen Deployment Plan (Rev. 7)	21 Nov 2014
Condition 2.9	Silt Screen Deployment Plan (Rev. 6)	20 Aug 2014
	Silt Screen Deployment Plan (Rev.5)	24 Jul 2013
	Silt Screen Deployment Plan (Rev.4)	15 Nov 2012
	Silt Screen Deployment Plan	19 Apr 2010
	Supplementary Document on Silt Curtain and Silt Screen Deployment Plan	19 Jul 2010
Conditions 2.8 and 2.9	Report on Field Testing for Silt Curtain	26 Aug 2010
	Report on Field Testing for Silt Curtain (Rev. A)	15 Nov 2010
Condition 2.12(d)	Alternative Proposal on Concurrent Dredging for Sewage Pipeline and Cross Harbour Water Mains	15 Apr 2011
Condition 2.17	Noise Management Plan	23 Apr 2010
Condition 2.18	Landscape Plan (Erection of Decorative Screen Hoarding along Construction Site around Hong Kong Exhibition and Convention Centre)	15 May 2010
	Landscape Plan (Night-time Lighting)	22 Oct 2010
	Landscape Plan (Rev. B)	15 Nov 2010
Condition 1.12	Notification of Commencement Date	20 Jun 2011
Condition 2.6 to 2.8	Management Organization, Works Schedule and Location Plan	18 May 2011
Condition 2.9	Silt Screen Deployment Plan	10 Jun 2011
Condition 2.18	Landscape Plan	31 Oct 2013



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

3.1.5. Summary of the current status on licences and/or permits on environmental protection pertinent and submission for contract no. HK/2009/02 under FEP-03/356/2009 are shown in *Table 3.4* and *Table 3.5*.

Table 3.4 Cumulative Summary of Valid Licences and Permits under Contract no.HK/2009/02

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental Permit	FEP-03/356/2009	24 Mar 2010	N/A	Valid
	FEP-01/364/2009	24 Mar 2010	N/A	Valid
Notification of Works Under APCO	313962	2 Feb 2010	N/A	Valid
	GW-RS0390-16	22 Apr 2016	27 Apr 2016 to 26 Oct 2016	Cancelled
	GW-RS0399-16	27 Apr 2016	27 Apr 2016 to 26 Oct 2016	Valid
Construction Noise Permit	GW-RS0593-16	13 Jun 2016	15 Jun 2016 to 12 Dec 2016	Valid
(CNP) for non-piling equipment	GW-RS0803-16	28 Jul 2016	30 Jul 2016 to 27 Jan 2017	Valid
	GW-RS0926-16	5 Sep 2016	07/9/2016 to 04/3/2017	Valid
	GW-RS0985-16	19/9/2016	20/9/2016 to 18/3/2017	Valid
Discharge Licence	WT00022295-2015	12 Aug 2015	31 July 2020	Valid
Billing Account under Waste Disposal Ordinance (Land)	7010255	10 Feb 2010	N/A	Valid
Billing Account under Waste Disposal Ordinance (Marine)	7011496	6 Oct 2010	N/A	Valid
Registration as Chemical Waste Producer (Wan Chai)	WPN5213-135-C3 593-01	10 Mar 2010	N/A	Valid
Registration as Chemical Waste Producer (TKO 137)	WPN5213-839-C3 593-02	22 Sep 2010	N/A	Valid
Dumping Permit (Type 1 – Open Sea Disposal)	EP/MD/17-041	23 Jun 2017	01 Jul 2016 to 31 Dec 2016	Valid

Table 3.5 Summary of submission status under FEP-03/356/2009 Condition
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EP Condition	Submission	Date of Submission
Condition 1.12	Commencement Date of Construction of Marine Works	8 April 2010



EP Condition	Submission	Date of Submission
Condition 2.6	Management Organization of Main Construction Companies	10 April 2010
Condition 2.7	Works Schedule and Location Plans	8 April 2010
	Silt Curtain Deployment Plan (Revision A)	20 April 2010
	Silt Curtain Deployment Plan (Revision B)	25 May 2010
	Silt Curtain Deployment Plan (Revision C)	14 Jun 2010
	Silt Curtain Deployment Plan (Revision H)	15 Feb 2011
Condition 2.8	Silt Curtain Deployment Plan (Revision I)	17 Nov 2011
	Silt Curtain Deployment Plan (Revision J)	15 Feb 2012
	Silt Curtain Deployment Plan (Revision K)	3 May 2012
	Silt Curtain Deployment Plan (Revision L)	25 Oct 2012
	Silt Curtain Deployment Plan (Revision M)	30 Nov 2012
Condition 2.9	Silt Screen Deployment Plan	21 April 2010
	Supplementary Information for Existing WSD Salt Water Intakes at Quarry Bay and Sai Wan Ho	5 Oct 2010
	Silt Screen Deployment Plan (Revision B)	15 Feb 2012
	Silt Screen Deployment Plan (Revision C)	3 May 2012
	Silt Screen Deployment Plan (Revision D)	10 Dec 2012
Condition 2.17	Noise Management Plan	6 May 2010
	Landscape Plan (Decorative Screen Hoarding)	11 May 2010
Condition 2.18	Landscape Plan (Control of Night Time Lighting)	2 June 2010
	Landscape Plan (Combined Version)	20 July 2011
	Landscape Plan (Combined Version)	5 Aug 2011
	Acknowledge of Submission	22 Aug 2011



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

3.1.6. Summary of the current status on licences and/or permits on environmental protection pertinent and submission for contract no. HY/2009/15 under FEP-04/356/2009 are shown in *Table 3.6* and *Table 3.7*.

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental Permit	FEP-04/356/2009	22 Nov 2010	N/A	Valid
Notification of Works Under APCO	321822	24 Sep 2010	N/A	Valid
Construction Noise Permit (CNP) for concreting works at Eastern Breakwater of CBTS	GW-RS0233-16	14 Mar 2016	14 Mar 2016 to 10 Sep 2016	Expired
	GW-RS0889-16	23 Aug 2016	11 Sep 2016 to 10 Mar 2017	Valid
Construction Noise Permit (CNP) for reclamation and d-wall works at Ex-PCWA	GW-RS0235-16	10 Mar 2016	12 Mar 2016 to 8 Sep 2016	Expired
	GW-RS0884-16	23 Aug 2016	8 Sep 2016 to 7 Mar 2017	Valid
Registration as a Chemical Waste Producer	WPN5213-147-C116 9-35	15 Nov 2010	N/A	Valid
Billing Account under Waste Disposal Ordinance	7011553	30 Sep 2010	N/A	Valid
Billing Account under Waste Disposal Ordinance (Disposal by Vessel)	7011761	14 Apr 2016	17 Jul 2016 to 16 Oct 2016	Valid
Dumping Permit (Type 1 – Open Sea Disposal (Dedicated Site) and Type 2 – Confined Marine Disposal)	EP/MD/17-076	5 Aug 2016	14 Aug 2016 to 13 Sep 2016	Expired

Table 3.6 Cumulative Summary of Valid Licences and Permits under Contract no.HY/2009/15

Table 3.7 Summary of submission status under FEP-04/356/2009 Condition

FEP Condition	Submission	Date of Submission
Condition 2.6	Management Organization of Main Construction Companies	30 Sep 2010
	Amendment for Management Organization of Main Construction Companies	16 May 2011



FEP Condition	Submission	Date of Submission
Condition 2.7	Works Schedule and Location Plans	27 Oct 2010
	Amendment for Works Schedule and Location Plans	12 Nov 2010
Condition 2.8	Silt Curtain Deployment Plan	30 Nov 2010
	Amendment for Silt Curtain Deployment Plan	24 Feb 2011
	Amendment for Silt Curtain Deployment Plan	11 May 2011
	Amendment for Silt Curtain Deployment Plan	11 Sep 2012
	Amendment for Silt Curtain Deployment Plan	30 Oct 2012
Condition 2.9	Condition 2.9 Silt Screen Deployment Plan	
	Amendment for Silt Screen Deployment Plan	18 Feb 2011
	Amendment for Silt Screen Deployment Plan	15 Jun 2011
Condition 2.18	Proposal for the Removal of Odorous Sediment and Slime	13 Jan 2011
	Amendment for Proposal for the Removal of Odorous Sediment and Slime	8 Mar 2011
	Amendment for Proposal for the Removal of Odorous Sediment and Slime	2 Aug 2011
Condition 2.21	Landscape Plan	18 Feb 2011
Condition 0.00	Noise Management Plan	20 Oct 2010
Condition 2.23	Amendment for Noise Management Plan	27 Jan 2011

3.1.7. Implementation status of the recommended mitigation measures during this reporting period is presented in *Appendix 3.1*.

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

3.1.8. Summary of the current status on licences and/or permits on environmental protection pertinent for contract no. HY/2009/19 is shown in *Table 3.8*

Table 3.8 Cumulative Summary of Valid Licences and Permits under Contract no.
HY/2009/19

Permit / Licence / Notification / Approval	Reference No.	Issued Date	Valid Period / Expiry date	Status
Further Environmental Permit	FEP-07/364/2009/D	24 Nov 2015	Granted	Valid
Notification of Works Under APCO	326160	24 Jan 2011	Notified	Valid
Construction Noise Permit (CNP) (For Portion Vi Marine)	GW-RS0551-16	1 Jun 2016	18 Jun 2016 to 17 Dec 2016	Valid
Discharge License (Sea)	WT00010865-2011	03 Nov 2011	30-Nov-16	Valid
C&D Waste Disposal	7012306	10 Feb 2011	Registered	-
Vessel Disposal	7013285	21 July 2011	Registered	-



Permit / Licence / Notification / Approval	Reference No.	Issued Date	Valid Period / Expiry date	Status
Registration as Chemical Waste Producer	5213-151-C3654-01	24 Mar 2011	Registered	-

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

3.1.9. Summary of the current status on licences and/or permits on environmental protection pertinent and submission for contract no. HK/2012/08 under FEP-06/356/2009 are shown in *Table 3.9* and *Table 3.10*.

Table 3.9 Cumulative Summary of Valid Licences and Permits under Contract no.HK/2012/08

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental Permit	FEP-06/356/2009	5 Mar 2013	N/A	Valid
	FEP-08/356/2009	1 Aug 2016	N/A	Valid
Notification of Works Under APCO	355439	4 Feb 2013	N/A	Valid
Registration as a Chemical Waste Producer	5213-134-C3790-01	30 Jun 2016	N/A	Valid
Billing Account under Waste Disposal Ordinance	7016883	18 Feb 2013	18 Jul 2017	Valid
Water Discharge Licence	WT00020594-2014	22 Dec 2014	31 Jan 2019	Valid
Construction Noise Permit	GW-RS0726-16	12 Jul 2016	14 Jul 2016 to 12 Jan 2017	Valid
	GW-RS00739-16	12 Jul 2016	14 Jul 2016 to 12 Jan 2017	Valid
	GW-RS0733-16	12 Jul 2016	14 Jul 2016 to 12 Jan 2017	Valid
	GW-RS0746-16	12 Jul 2016	14 Jul 2016 to 12 Jan 2017	Valid
	GW-RS0909-16	23 Aug 2016	26 Aug 2016 to 1 Oct 2016	Valid
	GW-RS0902-16	24 Aug 2016	26 Aug 2016 to 25 Feb 2017	Valid
Dumping Permit (Type 1 – Open Sea Disposal)	EP/MD/17-052	28 Jun 2016	1 Jul 2016 to 31 Dec 2016	Valid
Dumping Permit (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine disposal)	EP/MD/17-073	3 Aug 2016	8 Aug 2016 to 7 Sep 2016	Expired
	EP/MD/17-091	6 Sep 2016	12 Sep 2016 to 11 Oct 2016	Valid



Table 3.10Summary of submission status under EP-356/2009 and FEP-06/356/2009Condition

FEP Condition	Submission	Date of Submission
Condition 2.8	Silt Curtain Deployment Plan (Rev. 3)	Submitted on 25 Nov 2013 was returned to CSLJV by EPD.
Condition 2.9	Silt Screen Deployment Plan (Rev. 2)	Generally in order as commented by EPD on 19 Sep 2013
Condition 2.23	Noise Management Plan (Rev. 2)	Generally in order as commented by EPD on 15 Aug 2013
Condition 2.24	Landscape Plan (Rev. 3)	Generally in order as commented by EPD on 31 Oct 2013

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

3.1.10. Summary of the current status on licences and/or permits on environmental protection pertinent and submission for contract no. HY/2010/08 under FEP-07/356/2009 are shown in Table 3.11 and Table 3.12.

Table 3.11Cumulative Summary of Valid Licences and Permits under Contract no.HY/2010/08

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental Permit	FEP-07/356/2009	26 Jul 2013	NA	Valid
	FEP-10/364/2009/B	26 Jul 2013	NA	Valid
Notification of Works Under APCO	357176	2 Apr 2013	NIL	Valid
Registration as a Chemical Waste Producer	WPN5213-147-C11 69-44	27 Mar 2013	NIL	Valid
Billing Account under Waste Disposal Ordinance	7017170	27 Mar 2013	NIL	Valid
Billing Account under Waste Disposal Ordinance (Dumping by Vessel)	7020947	22 Dec 2014	NIL	Valid.
Water Discharge Licence	WT00020753-2015	3 Feb 2015	28 Feb 2017	Valid
Construction Noise Permit	GW-RW-0240-16	5 May 2016	4 May 2016 to 28 Oct 2016	Valid
Dumping Permit (Type 1 – Open Sea Disposal)	EP-MD-17-003	2 Jun 2016	2 Jun 2016 to 1 Dec 2016	Valid



Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Dumping Permit (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine disposal)				

Table 3.12Summary of submission status under EP-356/2009 and FEP-07/356/2009Condition

FEP Condition	Submission	Date of Submission
Condition 2.8	Silt Curtain Deployment Plan (rev03)	24 Dec 2014
Condition 2.9	Silt Screen Deployment Plan (rev02)	18 Feb 2015
Condition 2.23	Noise Management Plan (rev02)	25 Mar 2014
Condition 2.24	Landscape Plant (rev04)	23 Sep 2014



4 Monitoring Requirements

4.1 Noise Monitoring

NOISE MONITORING STATIONS

4.1.1. The noise monitoring stations for the Project are listed and shown in *Table 4.1* and *Figure 4.1*. *Appendix 4.1* 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 11	Naica	Monitoring	Station
<i>i apie</i> 4.1	NOISE	Monitoring	Station

NOISE MONITORING PARAMETERS, FREQUENCY AND DURATION

- 4.1.2. The construction noise level shall be measured in terms of the A-weighted equivalent continuous sound pressure level (Leq). Leq (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, Leq (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.
- 4.1.3. Noise monitoring shall be carried out at all the designated monitoring stations. The monitoring frequency shall depend on the scale of the construction activities. The following is an initial guide on the regular monitoring frequency for each station on a weekly basis when noise generating activities are underway:
 - One set of measurements between 0700 and 1900 hours on normal weekdays.
- 4.1.4. If construction works are extended to include works during the hours of 1900 0700 as well as public holidays and Sundays, additional weekly impact monitoring shall be carried out during respective restricted hours periods. Applicable permits under NCO shall be obtained by the Contractor.

MONITORING EQUIPMENT

4.1.5. 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.

4.1.6. 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.

4.2 Air Monitoring

AIR QUALITY MONITORING STATIONS

4.2.1. The air monitoring stations for the Project are listed and shown in *Table 4.2* and *Figure 4.1*. *Appendix 4.1* 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 4.2 Air Monitoring Station

Remarks*: As per the ENPC meeting in March 2011, the monitoring stations CMA3a – Future CWB site office at Wanchai Waterfront Promenade was 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

- 4.2.2. 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.
- 4.2.3. 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.
- 4.2.4. 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

- 4.2.5. 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.
- 4.2.6. 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

- 4.2.7. 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.
- 4.2.8. 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.
- 4.2.9. 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.



- 4.2.10. 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.
- 4.2.11. All the collected samples shall be kept in a good condition for 6 months before disposal.

IMPACT MONITORING FOR ODOUR PATROL

- 4.2.12. 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
- 4.2.13. Odour patrol shall be conducted by independent trained personnel / competent persons patrolling and sniffing around the shore as shown in *Figure 4.1* to detect any odour at the concerned hours (afternoon is preferred for higher daily temperature).
- 4.2.14. 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.
- 4.2.15. 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.
- 4.2.16. 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 <u>Appendix 4.1.</u>
- 4.2.17. The qualified odour patrol member has individual n-butanol thresholds complied with the requirement of European Standard Method of Air Quality Determination of Odour Concentration by Dynamic Olfactometry (EN13725) in the range of 20 to 80 ppb.



4.3 Water Quality Monitoring

- 4.3.1. 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.
- 4.3.2. 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

4.3.3. Water quality monitoring was undertaken at 8 monitoring stations for WSD salt water intakes and cooling water intakes along the seafront of the Victoria Harbour in the reporting month. The proposed water quality monitoring stations of the Project are shown in *Table 4.3* and *Figure 4.1*. Appendix 4.1 shows the established Action/Limit Levels for the monitoring works.

Station Ref.	Location	Easting	Northing		
WSD Salt Water Int	WSD Salt Water Intake				
WSD19	Sheung Wan	833415.0	816771.0		
Cooling Water Inta	ke	-			
C1	HKCEC Extension	835885.6	816223.0		
C7	Windsor House	837193.7	816150.0		
P1	HKCEC Phase I	835774.7	816179.4		
P3	The Academy of performing Arts	835824.6	816212.0		
P4	Shui on Centre	835865.6	816220.0		
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 / China Resources Building	836268.0	816020.0		

 Table 4.3
 Marine Water Quality Stations for Water Quality Monitoring

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

4-week post construction water quality monitoring at WSD9, WSD10, WSD15 and WSD17 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 4 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 22 Apr 2013
- P1, P3, P4 and P5 were commenced since 24 Apr 2013
- C5e and C5w water quality monitoring station was temporarily suspended since 29 Jul 2013.



- WSD21 water quality monitoring station was temporarily suspended since 12 Mar 2014
- WSD9 and WSD17 water quality monitoring station was temporarily suspended since 8 Sep 2014 flood tide.
- The water quality monitoring station C1 shall be associated with Contract No. HK/2009/02 upon commencement of marine works under DP3 at WCR3 area.

WATER QUALITY PARAMETERS

- Monitoring of dissolved oxygen (DO), turbidity and suspended solids (SS) shall be carried out 4.3.4. at WSD flushing water intakes and cooling water intakes. DO and Turbidity are measured in-situ while SS is determined in laboratory.
- 4.3.5. 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.

SAMPLING PROCEDURES AND MONITORING EQUIPMENT

4.3.6. 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 4.4 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		
Notes:				

Table 4.4 Marine Water Quality Monitoring Frequency and Parameters

Notes:

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

DISSOLVED OXYGEN AND TEMPERATURE MEASURING EQUIPMENT

- 4.3.7. 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



- 4.3.8. 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).
- 4.3.9. 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

4.3.10. 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).

<u>SAMPLER</u>

4.3.11. A 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

4.3.12. 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

4.3.13. 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>

4.3.14. 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

4.3.15. 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

4.3.16. 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.

- 4.3.17. 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.
- 4.3.18. 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.
- 4.3.19. Current calibration certificates of equipments are presented in <u>Appendix 4.2.</u>

LABORATORY MEASUREMENT / ANALYSIS

4.3.20. 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

- 4.3.21. 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.
- 4.3.22. 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 4.5* and *Figure* <u>4.1</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 4.5
 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



4.3.23. 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 equal to or less than 3m, only the mid-depth will be monitored).

DAILY SS MONITORING AND 24 HOURS TURBIDITY MONITORING SYSTEM

- 4.3.24. 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.
- 4.3.25. 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 sahll 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

- 4.3.26. 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.
- 4.3.27. 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
- 4.3.28. 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).



Lam Geotechnics Limited

5. Monitoring Results

- 5.0.1. 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 *Figure 2.1* and *Figure 4.1*. The monitoring results are presented in according to the Individual Contract(s).
- 5.0.2. In the reporting month, the concurrent contracts are as follows:
 - Contract no. HK/2009/01 Wan Chai Development Phase II Central-Wan Chai Bypass at Hong Kong Convention and Exhibition Centre; and
 - Contract no. HK/2009/02 Wan Chai Development Phase II Central-Wan Chai Bypass at Wan Chai East
 - Contract no. HY/2009/15 Central-Wanchai Bypass Tunnel (Causeway Bay Typhoon Shelter Section)
 - Contract no. HY/2009/19- Central- Wan Chai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link
 - Contract no. HK/2012/08 Wan Chai Development Phase II Central- Wan Chai Bypass at Wan Chai West
 - Contract no. HY/2010/08 Central- Wanchai Bypass Tunnel (Slip Road 8 Section)
- 5.0.3. The environment monitoring schedules for reporting month and coming month are presented in *Appendix 5.1*.

5.1 Noise Monitoring Results

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

5.1.1. The proposed division of noise monitoring stations are summarized in *Table 5.1* below.

Table 5.1 Noise Monitoring Station for Contract nos. HK/2009/01 and HK/2009/02

Station	Description	
M1a	Harbour Road Sports Centre	

- 5.1.2. No action or limit level exceedance was recorded in this reporting month.
- 5.1.3. 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>5.2.</u>



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

5.1.4. The noise monitoring for HY/2009/15 was commenced on 10 November 2010. The proposed division of noise monitoring stations are summarized in *Table 5.2* below.

Table 5.2Noise Monitoring Station for Contract no. HY/2009/15

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

- 5.1.5. No action or limit level exceedance was recorded in this reporting month.
- 5.1.6. 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>5.2.</u>

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

5.1.7. The proposed division of noise monitoring stations are summarized in *Table 5.3* below.

StationDescriptionM4bVictoria CentreM5bCity GardenM6HK Baptist Church Henrietta Secondary School

 Table 5.3
 Noise Monitoring Station for Contract no. HY/2009/19

- 5.1.8. No action or limit level exceedance was recorded in this reporting month.
- 5.1.9. 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>5.2.</u>

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

5.1.10. The proposed division of noise monitoring stations are summarized in **Table 5.4** below.

Table 5.4Noise Monitoring Station for Contract no. HY/2010/08

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

5.1.11. No action or limit level exceedance was recorded in this reporting month.



5.1.12. 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>5.2.</u>



5.2 Air Monitoring Results

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

5.2.1 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 divisions of air monitoring stations are summarized in *Table 5.5* below.

Station	Description
CMA5b	Pedestrian Plaza
CMA6a	WDII PRE Site Office

 Table 5.5
 Air Monitoring Stations for Contract no. HK/2009/01

- 5.2.2 There were two action level exceedances of 1hr TSP recorded on 14 and 26 September 2016 in this reporting month.
- 5.2.3 Pipe laying was undertaken on the monitoring data around Pedestrian Plaza and no particular observation regarding air quality impact was observed on 14 September 2016 during sampling. In view of the above, the action level exceedance was considered to be non-project related and potentially contributed by other sources affecting local ambient condition such as road traffic next to the monitoring station.
- 5.2.4 Manhole construction was undertaken on 26 September 2016 around Pedestrian Plaza and no particular observation regarding air quality impact was observed during sampling. In view of the above, the action level exceedance was considered to be non-project related and potentially contributed by other sources affecting local ambient condition such as road traffic next to the monitoring station. According to the EPD information, smog was observed on the monitoring date and the prevailing meteorological condition on 26 September 2016 is detrimental to dispersion of any potential roadside pollutant.
- 5.2.5 Air quality monitoring results measured in this reporting period are reviewed and summarized. Details of air monitoring results and graphical presentation can be referred in *Appendix 5.3*.

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

5.2.6 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 are summarized in *Table 5.6* below.

 Table 5.6
 Air Monitoring Station for Contract no. HK/2009/02

Station	Description
CMA4a	Society for the Prevention of Cruelty to Animals

5.2.7 No exceedance was recorded in the reporting month. Air quality monitoring results measured in this reporting period are reviewed and summarized. Details of air monitoring results and graphical presentation can be referred in *Appendix 5.3*.



CMA2a

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

5.2.8 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 5.7* below.

Station	Description
CMA3a	CWB PRE Site Office

Table 5.7Air Monitoring Station for Contract no. HY/2009/15

- 5.2.9 No exceedance was recorded in the reporting month. Air quality monitoring results measured in this reporting period are reviewed and summarized. Details of air monitoring results and graphical presentation can be referred in *Appendix 5.3*.
- 5.2.10 The odour patrol along the odour route with 7 sniffing locations was conducted by a qualified odour patrol member on 13 September 2016 and 26 September 2016 at the concerned hours (afternoon for higher daily temperature). No action and limit level was recorded during this reporting month. The details of the odour patrol results and meteorological conditions and on the date of odour patrol are shown in *Appendix 5.3.*

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

5.2.11 The proposed division of air monitoring stations are summarized in *Table 5.8* below.

Station		Description
CMA1b		Oil Street Site Office

Causeway Bay Community Centre

 Table 5.8
 Air Monitoring Stations for Contract no. HY/2009/19

5.2.12 No exceedance was recorded in the reporting month. Air quality monitoring results measured in this reporting period are reviewed and summarized. Details of air monitoring results and graphical presentation can be referred in *Appendix 5.3*.

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

5.2.13 The proposed division of air monitoring stations are summarized in *Table 5.9* below.

Station	Description
CMA5b	Pedestrian Plaza

Table 5.9 Air Monitoring Stations for Contract no. HK/2012/08



- 5.2.14 There were two action level exceedances of 1hr TSP recorded on 14 and 26 September 2016 in this reporting month.
- 5.2.15 Despite formwork erection was undertaken on 14 September 2016 at around Pedestrian Plaza, dust suppression measure including haul road maintained in dampened condition were implemented and no particular observation regarding air quality impact was observed during sampling. In view of the above, the active level exceedance was considered to be non-project related and potentially contributed by other sources affecting local ambient condition such as road traffic next to the monitoring station.
- 5.2.16 Despite formwork erection and re-bar fixing were undertaken on 26 September 2016 at around Pedestrian Plaza, dust suppression measure including haul road maintained in dampened condition were implemented and no particular observation regarding air quality impact was observed during sampling. In view of the above, the action level exceedance was considered to be non-project related and potentially contributed by other sources affect local ambient condition such as road traffic next to the monitoring station. According to the EPD information, smog was observed on the monitoring date and the prevailing meteorological condition on 26 September 2016 is detrimental to dispersion of any potential roadside pollutant.
- 5.2.17 Air quality monitoring results measured in this reporting period are reviewed and summarized. Details of air monitoring results and graphical presentation can be referred in *Appendix 5.3*.

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

The proposed division of air monitoring stations are summarized in *Table 5.10* below.

Table 5.10 Air Monitoring Stations for Contract no. HY/2010/08

Station	Description
CMA3a	CWB PRE Site Office

- 5.2.18 No exceedance was recorded in the reporting month. Air quality monitoring results measured in this reporting period are reviewed and summarized. Details of air monitoring results and graphical presentation can be referred in *Appendix 5.3*.
- 5.2.19 The odour patrol along the odour route with 7 sniffing locations was conducted by a qualified odour patrol member on 13 September 2016 and 26 September 2016 at the concerned hours (afternoon for higher daily temperature). No action and limit level was recorded during this reporting month. The details of the odour patrol results and meteorological conditions and on the date of odour patrol are shown in *Appendix 5.3.*

5.3 Water quality monitoring Results

- 5.3.1. As advised by the Contractor of HK/2009/01, all silt screen remains removal works at P1, P3, P4, P5 and C1 water quality monitoring stations were completed on 8 May 2016.
- 5.3.2. 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.



- 5.3.3. 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.
- 5.3.4. 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.

Table 5.11 Water quality Monitoring Stations for contracts with respect to remaining DP3 work areas after the completion of DP5 & DP6 in 2012 and intake diversion in 2013

Contract No.	Remaining DP3 and work area(s)	Relevant Water quality monitoring Stations,	Division of WQM w.r.t tentative works commenced / to be commenced
HK/2009/01	WCR3	C1 ¹	Apr 2013
HK/2009/02	WCR3, WCR4, TWCR4	RW21-P789 ² , C1 ¹	Apr 2013
HK/2012/08	HKCEC2W, HKCEC2E	WSD19, P1 ³ , P3 ³ , P4 ³ , P5 ³	Aug 2013
HY/2009/15	TCBR2, TCBR3, TCBR1W, TPCWAE, TPCWAW	C6 ⁴ , C7, Ex-WPCWA SW, Ex-WPCWA SE (plus enhanced DO monitoring)	Nov 2010
HY/2010/08	TCBR3, TCBR4	C6 ⁴ , C7 (plus enhanced DO monitoring)	Mar 2014

Remarks:

- 1. 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.
- 4 intakes (re-provisioned Wanchai WSD intake, Great Eagle Centre, China Resources Centre & Sun Hung Kai Centre constructed adjacent to each other) taken as a single group for silt screen protection and monitoring. Re-provisioned intake reference: P1: HKCEC Phase 1; P3: APA, P4: Shui On; P5: Government Buildings (Wanchai Tower / Revenue Tower / Immigration Tower)
- 3. The water quality monitoring stations for WSD19, P1, P3, P4, P5 shall be associated with Contract No. HK/2009/01 prior to their transition to Contract HK/2012/08.
- 4. Enhanced DO Monitoring at C6 since the intake abandon in May 2011.

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

5.3.4. Water quality monitoring for Contract no. HK/2009/01 was commenced on 23 July 2010. The proposed division of water quality monitoring stations are summarized in *Table 5.12* below.

Table 5.12	Water q	quality monitori	ng Stations fo	or Contract no. I	HK/2009/01

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



- 5.3.5 There were 1 limit level of turbidity exceedance recorded at C1 on 19 September 2016.
- 5.3.6 After checking with contractor, no marine activity was conducted on the monitoring date. In view of no marine activity was conducted, the exceedance was considered not related to project works.
- 5.3.7 Water quality monitoring results measured in this reporting period are reviewed and summarized. Details of water quality monitoring results and graphical presentation can be referred in *Appendix 5.4.*

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

5.3.8 Water quality monitoring for Contract no. HK/2009/02 was commenced on 8 July 2010. The proposed division of water quality monitoring stations are summarized in *Table 5.13* below.

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

 Table 5.13
 Water quality Monitoring Stations for Contract no. HK/2009/02

- 5.3.9 There were 2 action level of turbidity exceedances recorded at RW21-P789 on 2 and 21 September 2016.
- 5.3.10 After checking with contractor, no marine activity was conducted on 2 and 21 September 2016. The installed silt screen was generally in order. In view of the above, the exceedances were considered not related to project works.
- 5.3.11 There were 1 limit level of turbidity exceedance recorded at C1 on 19 September 2016.
- 5.3.12 After checking with contractor, no marine activity was conducted on the monitoring date. In view of no marine activity was conducted, the exceedance was considered not related to project works.
- 5.3.13 Water quality monitoring results measured in this reporting period are reviewed and summarized. Details of water quality monitoring results and graphical presentation can be referred in *Appendix 5.4.*

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

5.3.14 Water quality monitoring for Contract no. HK/2012/08 was commenced on 5 March 2013. The proposed division of water quality monitoring stations are summarized in *Table 5.14* below.



Station Ref.	Location	Easting	Northing			
WSD Salt Water Int	WSD Salt Water Intake					
WSD19	Sheung Wan	833415.0	816771.0			
Cooling Water Inta	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	Government Buildings (Wanchai Tower / Revenue Tower / Immigration Tower)	835895.2	816215.2			

Table 5.14	Water quality Monitoring Stations for Contract no. HK/2012/08
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- 5.3.15 There were 2 action level and 6 limit level of turbidity exceedances recorded at WSD19 on 2, 5, 7, 17, 19, 21, 23 and 26 September 2016.
- 5.3.16 After checking with the contractor, despite trimming of rock slope profile near Zone D was conducted on 2, 5 and 7 September 2016. Contractor mitigation measure including the use of silt curtain was generally in place. In view of the above, the exceedances were considered not project related.
- 5.3.17 No marine construction activity was conducted on 17, 19, 21, 23 and 26 September 2016. In view of no marine construction activity was conducted, the exceedance were considered not project related.
- 5.3.18 There was 1 limit level of turbidity exceedance recorded at P4 on 19 September 2016.
- 5.3.19 After checking with the contractor, no marine activity was conducted on the monitoring date. Location of the construction area was at downstream of monitoring station P4. In view of the above, the exceedance was considered not project related. No exceedance was recorded on the subsequent monitoring.
- 5.3.20 There was 1 limit level of turbidity exceedance recorded at P5 on 19 September 2016.
- 5.3.21 After checking with the contractor, no marine activity was conducted on the monitoring date. Location of the constriction area was at downstream of monitoring station P5. In view of the above, the exceedance was considered not project related. No exceedance was recorded on the subsequent monitoring.
- 5.3.22 Water quality monitoring results measured in this reporting period are reviewed and summarized. Details of water quality monitoring results and graphical presentation can be referred in *Appendix 5.4.*

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



5.3.23 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 quality monitoring stations are summarized in **Table 5.15** and **Table 5.16** below.

 Table 5.15
 Water quality monitoring Stations for Contract no. HY/2009/15

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 quality monitoring at C6 was then terminated since 17 May 2011.

Table 5.16 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
- 5.3.24 There was one limit level of turbidity exceedance recorded at C7 on 7 September 2016.
- 5.3.25 After checking with the contractor, no marine activity was conducted at Causeway Bay Typhoon Shelter on the monitoring date. In view of no marine construction activity, the exceedance was considered not related to project works.
- 5.3.26 There were 4 limit level of DO exceedance recorded at Ex-WPCWA-SW on 29, 31 August 2016 and 2 September 2016.
- 5.3.27 After checking with the contractor, despite removal of D-wall at TPCWAW was conducted on 29 and 31 August 2016, contractor mitigation measures including the use of silt curtain was in place. Upstream discharge from nearby culvert was noted. In view of the above, the exceedance were considered not related to Project works.
- 5.3.28 Despite filling levelling stone for seawall reinstatement at Western side of TPCWAW and removal of D-wall at northern side of TPCWAW were conducted on 2 September 2016, contractor mitigation measures including the use of silt curtain and impermeable barrier were implemented. Upstream discharge from nearby culvert was noted. In view of the above, the exceedance was considered not related to Project works. No exceedance was recorded on the subsequent monitoring.



5.3.29 Water quality monitoring results measured in this reporting period are reviewed and summarized. Details of water quality monitoring results and graphical presentation can be referred in *Appendix 5.4.*

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

5.3.30 The proposed division of water quality monitoring stations are summarized in *Table 5.17* and **Table 5.18** below:

 Table 5.17
 Water quality monitoring Stations for Contract no. HY/2010/08

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

Table 5.18 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.
- 5.3.31 There was 1 limit level of turbidity exceedance recorded at C7 on 7 September 2016.
- 5.3.32 After checking with contractor, no marine activity was conducted on the monitoring date, and the installed silt screen was in place. In view of the above, it was considered that the exceedance was not related to project works. No exceedance was recorded on the subsequent monitoring.
- 5.3.33 Water quality monitoring results measured in this reporting period are reviewed and summarized. Details of water quality monitoring results and graphical presentation can be referred in **Appendix 5.4**.



5.4 Waste Monitoring Results

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

5.4.1. No inert C&D waste and non- inert C&D waste disposed in this reporting month. Details of the waste flow table are summarized in *Table 5.19*.

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m ³	NIL	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	NIL (Bulk Volume)	52250 (Bulk Volume)	East of Cha Chau
Dredged Sediment Requiring Type 3 – Special Treatment / Disposal contained in Geosynthetic Containers	NIL (Bulk Volume)	6773 (Bulk Volume)	East of Cha Chau

 Table 5.19
 Details of Waste Disposal for Contract no. HK/2009/01

5.4.2. There were no marine sediment Type 1- Open Sea Disposal and no marine sediments Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal disposed in this reporting month.

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

5.4.3. No inert C&D waste and Non-inert C&D waste disposed of in this reporting month. Details of the waste flow table are summarized in *Table 5.20.*



Waste Type	Quantity this month	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	

5.4.4. There were no marine sediment Type 1 – Open Sea Disposal and no Type 1 Open Sea Disposal (Dedicate Sties) & Type 2 – Confined Marine Disposal disposed in this reporting month.

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

5.4.5. No Inert and non-inert C&D material was recycled in this reporting month. Details of the waste flow table are summarized in *Table 5.21*

 Table 5.21
 Details of Waste Disposal for Contract no. HY/2009/15

Waste Type	Quantity this month	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 recycled, m ³	NIL	8127.21	HY/2010/08	NIL
	NIL	304	Ex-PCWA	NIL
	NIL	111.9	TS4	NIL
Non-inert C&D materials disposed, m ³	NIL	252.2	SENT Landfill	NIL



Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds	Remarks
Non-inert C&D materials recycled, kg	NIL	299361.5	N/A	NIL
Chemical waste disposed, kg	NIL	8,200	N/A	NIL
Marine Sediment (Type 1 – Open Sea Disposal), m ³	NIL (Bulk Volume)	156909 (Bulk Volume)	Cheung Chau South	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 (Bulk Volume)	325796 (Bulk Volume)	East of Sha Chau / South of the Brothers	Dredging from TCBR1E / TCBR1W / TCBR2/ TCBR3 / TCBR4 / Maintenance dredging
Marine Sediment (Type 3 – Special Treatment / Disposal contained in Geosynthetic Containers) m ³	NIL (Bulk Volume)	12640 (Bulk Volume)	East of Sha Chau / South of the Brothers	Dredging from TCBR1W / Maintenance dredging
Marine Sediment (Type 2 – Confined Marine Disposal), m ³	NIL	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

5.4.6. There was no Type 1 Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal and no Type 1 Open Sea Disposal disposed in this reporting month.



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

5.4.7. No inert C&D waste and non-inert C&D waste disposed in this reporting month. Details of the waste flow table are summarized in *Table 5.22.*

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, m ³	NIL	59367	N/A
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
Marine Sediment (Type 2 – Confined Marine Disposal) , m ³	NIL	681	East Sha Chau
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal) , m3	NIL	4976.00	East Sha Chau

Table 5.22 Details of Waste D	isposal for Contract no. HY/2009/19

5.4.8. There was no marine sediment Type1- Open Sea Disposal and there was no Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal disposed in this reporting month.

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

5.4.9. There was Inert C&D waste disposed in this reporting month. No non-inert C&D waste disposed in this reporting month. Details of the waste flow table are summarized in *Table 5.23*.

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m ³ *	NIL	4131	TM38
	238	273	TKO137
Inert C&D materials recycled, m ³	NIL	NIL	N/A



Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
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), m3	NIL (Bulk volume)	108542 (Bulk volume)	South of The Brothers (from 27 Aug 2013 onwards)

*Remarks: The details of waste disposal is recorded in calendar month period. There was 35m³ of inert C&D materials disposed at TKO137 in August reporting month. The cumulative quantity of captioned inert C&D materials is updated in this reporting month.

5.4.10. There was no Marine Sediment Type 1 - Open Sea Disposal (Delicate Sites) & Type 2 -Confined Marine Disposal and Marine Sediment Type 1 – Open Sea Disposal disposed in this reporting month.

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

5.4.11. No inert C&D and no non-inert C&D waste disposed in this reporting month. Details of the waste flow table are summarized in Table 5.24

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m ³	NIL	26849.2	TM38
	NIL	19739.4	ТКО137
Inert C&D materials recycled, m ³	NIL	NIL	N/A
Non-inert C&D materials disposed, m ³	NIL	NIL	N/A
Non-inert C&D materials recycled, kg	NIL	NIL	N/A
Chemical waste disposed, L	NIL	NIL	N/A
Marine Sediment (Type 1 – Open Sea Disposal)	NIL	62559.4	South Cheung Chau / Brothers Island *
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine disposal)	NIL	28309.2	Brothers Island
Marine Sediment (Type 3 – Special Treatment)	NIL	7780	Brothers Island

Table 5.24 Details of Waste Disposal for Contract no. HY/2010/08



5.4.12. There were no Type 1 – Open Sea Disposal and no Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal disposed in this reporting month, and no Type 3-Special Treatment disposed in this reporting month.



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6. Compliance Audit

6.0.1. The Event Action Plan for construction noise, air quality and water quality are presented in *Appendix 6.1.*

6.1 Noise Monitoring

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

6.1.1 No exceedance was recorded in the reporting month.

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

6.1.2 No exceedance was recorded in the reporting month.

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

6.1.3 No exceedance was recorded in the reporting month.

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

6.1.6. No exceedance was recorded in the reporting month.

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

6.1.7. No exceedance was recorded in the reporting month.

6.2 Air Monitoring

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

- 6.2.1 There were two action level exceedances of 1hr TSP recorded on 14 and 26 September 2016 in this reporting month.
- 6.2.2 Pipe laying was undertaken on the monitoring data around Pedestrian Plaza and no particular observation regarding air quality impact was observed on 14 September 2016 during sampling. In view of the above, the action level exceedance was considered to be non-project related and potentially contributed by other sources affecting local ambient condition such as road traffic next to the monitoring station.
- 6.2.3 Manhole construction was undertaken on 26 September 2016 around Pedestrian Plaza and no particular observation regarding air quality impact was observed during sampling. In view of the above, the action level exceedance was considered to be non-project related and potentially contributed by other sources affecting local ambient condition such as road traffic next to the monitoring station. According to the EPD information, smog was observed on the monitoring date and the prevailing meteorological condition on 26 September 2016 is detrimental to dispersion of any potential roadside pollutant.

Contract no. HK/2009/02 - Wan Chai Development Phase II - Central - Wan Chai Bypass at



Wan Chai East (CWB Tunnel)

6.2.4 No exceedance was recorded in the reporting month.

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

- 6.2.5 No exceedance was recorded in the reporting month.
- 6.2.6 The odour patrol along the odour route with 7 sniffing locations was conducted by a qualified odour patrol member on 13 September 2016 and 26 September 2016 at the concerned hours (afternoon for higher daily temperature). No action and limit level was recorded during this reporting month.

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

6.3.4. No exceedance was recorded in the reporting month.

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

- 6.3.5. There were two action level exceedances of 1hr TSP recorded on 14 and 26 September 2016 in this reporting month.
- 6.3.6. Despite formwork erection was undertaken on 14 September 2016 at around Pedestrian Plaza, dust suppression measure including haul road maintained in dampened condition were implemented and no particular observation regarding air quality impact was observed during sampling. In view of the above, the active level exceedance was considered to be non-project related and potentially contributed by other sources affecting local ambient condition such as road traffic next to the monitoring station.
- 6.3.7. Despite formwork erection and re-bar fixing were undertaken on 26 September 2016 at around Pedestrian Plaza, dust suppression measure including haul road maintained in dampened condition were implemented and no particular observation regarding air quality impact was observed during sampling. In view of the above, the action level exceedance was considered to be non-project related and potentially contributed by other sources affect local ambient condition such as road traffic next to the monitoring station. According to the EPD information, smog was observed on the monitoring date and the prevailing meteorological condition on 26 September 2016 is detrimental to dispersion of any potential roadside pollutant.

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

- 6.3.8. No exceedance was recorded in the reporting month.
- 6.3.9. The odour patrol along the odour route with 7 sniffing locations was conducted by a qualified odour patrol member on 13 September 2016 and 26 September 2016 at the concerned hours (afternoon for higher daily temperature). No action and limit level was recorded during this reporting month.



6.3 Water Quality Monitoring

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

- 6.3.1 There were 1 limit level of turbidity exceedance recorded at C1 on 19 September 2016.
- 6.3.2 After checking with contractor, no marine activity was conducted on the monitoring date. In view of no marine activity was conducted, the exceedance was considered not related to project works.

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

- 6.3.3 There were 2 action level of turbidity exceedances recorded at RW21-P789 on 2 and 21 September 2016.
- 6.3.4 After checking with contractor, no marine activity was conducted on 2 and 21 September 2016. The installed silt screen was generally in order. In view of the above, the exceedances were considered not related to project works.
- 6.3.5 There were 1 limit level of turbidity exceedance recorded at C1 on 19 September 2016.
- 6.3.6 After checking with contractor, no marine activity was conducted on the monitoring date. In view of no marine activity was conducted, the exceedance was considered not related to project works.

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

- 6.3.7 There was one limit level of turbidity exceedance recorded at C7 on 7 September 2016.
- 6.3.8 After checking with the contractor, no marine activity was conducted at Causeway Bay Typhoon Shelter on the monitoring date. In view of no marine construction activity, the exceedance was considered not related to project works.
- 6.3.9 There were 4 limit level of DO exceedance recorded at Ex-WPCWA-SW on 29, 31 August 2016 and 2 September 2016.
- 6.3.10 After checking with the contractor, despite removal of D-wall at TPCWAW was conducted on 29 and 31 August 2016, contractor mitigation measures including the use of silt curtain was in place. Upstream discharge from nearby culvert was noted. In view of the above, the exceedance were considered not related to Project works.
- 6.3.11 Despite filling levelling stone for seawall reinstatement at Western side of TPCWAW and removal of D-wall at northern side of TPCWAW were conducted on 2 September 2016, contractor mitigation measures including the use of silt curtain and impermeable barrier were implemented. Upstream discharge from nearby culvert was noted. In view of the above, the exceedance was considered not related to Project works. No exceedance was recorded on the subsequent monitoring.



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

6.3.12 No action or limit level exceedance was recorded in this reporting month.

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

- 6.3.13 There were 2 action level and 6 limit level of turbidity exceedances recorded at WSD19 on 2, 5, 7, 17, 19, 21, 23 and 26 September 2016.
- 6.3.14 After checking with the contractor, despite trimming of rock slope profile near Zone D was conducted on 2, 5 and 7 September 2016. Contractor mitigation measure including the use of silt curtain was generally in place. In view of the above, the exceedances were considered not project related.
- 6.3.15 No marine construction activity was conducted on 17, 19, 21, 23 and 26 September 2016. In view of no marine construction activity was conducted, the exceedance were considered not project related.
- 6.3.16 There was 1 limit level of turbidity exceedance recorded at P4 on 19 September 2016.
- 6.3.17 After checking with the contractor, no marine activity was conducted on the monitoring date. Location of the construction area was at downstream of monitoring station P4. In view of the above, the exceedance was considered not project related. No exceedance was recorded on the subsequent monitoring.
- 6.3.18 There was 1 limit level of turbidity exceedance recorded at P5 on 19 September 2016.
- 6.3.19 After checking with the contractor, no marine activity was conducted on the monitoring date. Location of the constriction area was at downstream of monitoring station P5. In view of the above, the exceedance was considered not project related. No exceedance was recorded on the subsequent monitoring.

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

- 6.3.20 There was 1 limit level of turbidity exceedance recorded at C7 on 7 September 2016.
- 6.3.21 After checking with contractor, no marine activity was conducted on the monitoring date, and the installed silt screen was in place. In view of the above, it was considered that the exceedance was not related to project works. No exceedance was recorded on the subsequent monitoring.

6.4 Review of the Reasons for and the Implications of Non-compliance

- 6.4.1 There was no non-compliance from the site audits in the reporting period. The observations and recommendations made in each individual site audit session were presented in Section 8.
- 6.4.2 No non-compliances from monitoring was recorded in reporting month.



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

6.5.1 There was no particular action taken since no non-compliance was recorded from the site audit in the reporting period.



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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 structural works for tunnel construction, road works and drainage works were performed in September 2016 reporting month. As no project related exceedance were recorded during the reporting period, cumulative construction impact due to the concurrent activities of the current projects with the Central Reclamation Phase III (CRIII) was considered as insignificant.
- 7.0.4. According to the construction programme of Wan Chai Development Phase II, Central-Wan Chai Bypass and Island Eastern Corridor Link projects, the major construction activities under Wan Chai Development Phase II were culvert reinstatement, road and drains, building demolition and tunnel works at Wan Chai East and tunnel construction and ELS works at Wan Chai West. The major construction activities under Central-Wan Chai Bypass and Island Eastern Corridor Link Projects were road works and ventilation building construction at Central Interchange, temporary reclamation removal works at Ex-PCWAW, ELS works and retaining wall construction at Victoria Park, ELS works and tunnel works at TS3, bridge construction, 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 and North Point area.
- 7.0.5. No significant air impact from construction activities was anticipated in the reporting month. Besides, no project related exceedance was recorded during the air and noise environmental monitoring events in the reporting month. Thus, it is evaluated that the cumulative construction impact from the concurrent projects including Central Reclamation Phase III (CRIII), Wan Chai Development Phase II (WDII), Central-WanChai Bypass (CWB), Island Eastern Corridor Link projects (IECL) was insignificant.



8. Environmental Site Audit

- 8.0.1. During this reporting month, weekly environmental site audits were conducted for Contracts no. HK/2009/01, HK/2009/02, HY/2009/15, HY/2009/19, HK/2012/08 and HY/2010/08. No non-conformance was identified during the site audits.
- 8.0.2. Four site inspections for Contract no. HK/2009/01 were conducted on 31 August 2016, 7, 15 and 21 September in reporting month. There was no particular findings observed in this reporting month.
- 8.0.3. Four site inspections for Contract no. HK/2009/02 were carried out on 1, 8, 14 and 20 September 2016 in reporting month. Results of these inspections and outcomes are summarized in *Table 8.2*.

 Table 8.2
 Summary of Environmental Inspections for Contract no. HK/2009/02

ltem	Date	Observations	Action taken by Contractor	Outcome
160908_01			trap has been covered.	Completion as observed on 14 September 2016.

- 8.0.4. Four site inspections for Contract no. HY/2009/15 were carried out on 30 August 2016, 6, 13 and 20 September 2016 in reporting month. There was no particular findings observed in this reporting month.
- 8.0.5. Four site inspections for Contract no. HY/2009/19 were carried out on 31 August 2016, 7, 14 and 21 September 2016 in reporting month. Results of these inspections and outcomes are summarized in *Table 8.4*.

Item	Date	Observations	Action taken by Contractor	Outcome
160914_1		Effluent generated from temporary washing sink shall properly collected and treated by water treatment plant prior to discharge to avoid potential contaminated runoff from the sink into nearby water(Portion 3)	was removed	Completion as observed on 21 September 2016

 Table 8.4
 Summary of Environmental Inspections for Contract no. HY/2009/19

8.0.6. Four site inspections for Contract no. HK/2012/08 were carried out on 30 August 2016, 6, 13 and 20 September 2016 in this reporting period. There was no particular findings observed in this reporting month.



8.0.7. Four site inspections for Contract no. HY/2010/08 were carried out on 31 August 2016, 9, 14 and 21 September 2016 in this reporting period. There was no particular findings observed in this reporting month.



9. Complaints, Notification of Summons and Prosecution

- 9.0.1. There was no environmental complaint received in this reporting month.
- 9.0.2. The details of cumulative complaint log and updated summary of complaints are presented in *Appendix 9.1*
- 9.0.3. Cumulative statistic on complaints and successful prosecutions are summarized in *Table 9.1* and *Table 9.2* respectively.

Table 9.1 Cumulative Statistics on Complaints

Reporting Period	No. of Complaints
Commencement works (Mar 2010) to last reporting month	47
September 2016	0
Total	47

Table 9.2 Cumulative Statistics on Successful Prosecutions

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



Lam Geotechnics Limited

10. Conclusion

- 10.0.1. 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.
- 10.0.2. The scheduled construction activities and the recommended mitigation measures for the coming month are listed in *Table 10.1*.

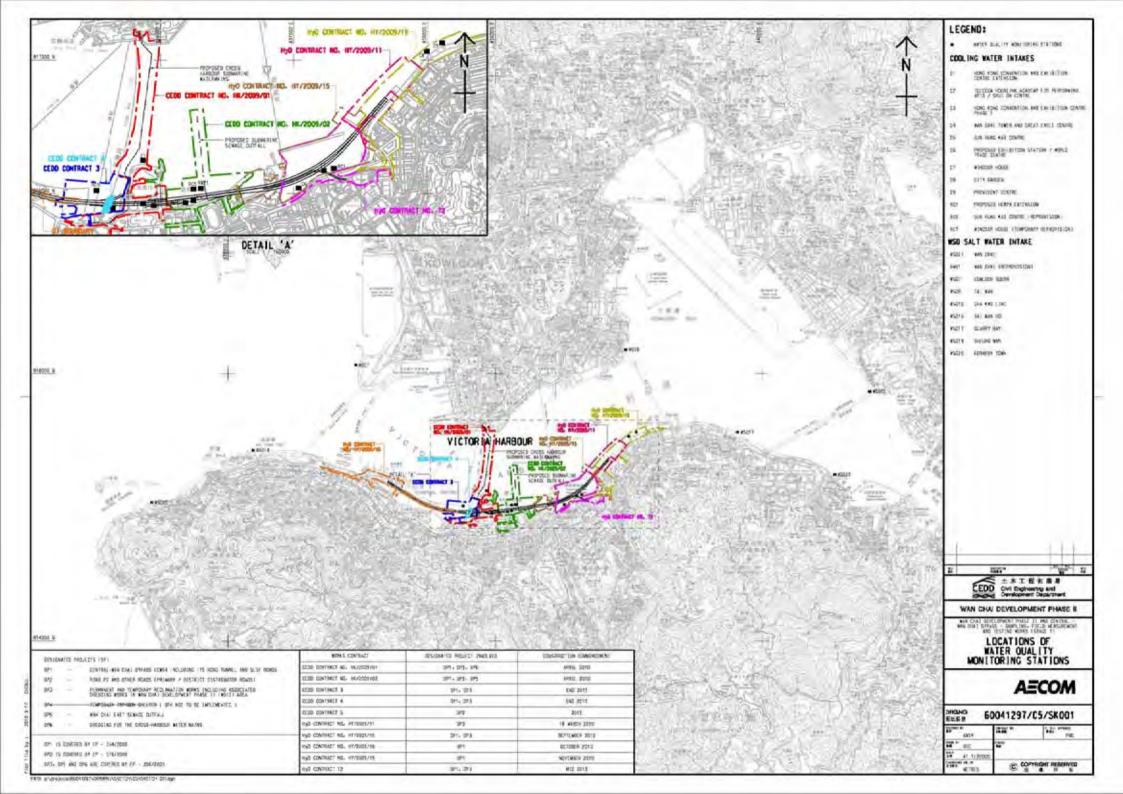
Table 10.1Construction Activities and Recommended Mitigation Measures in Coming
Reporting Month

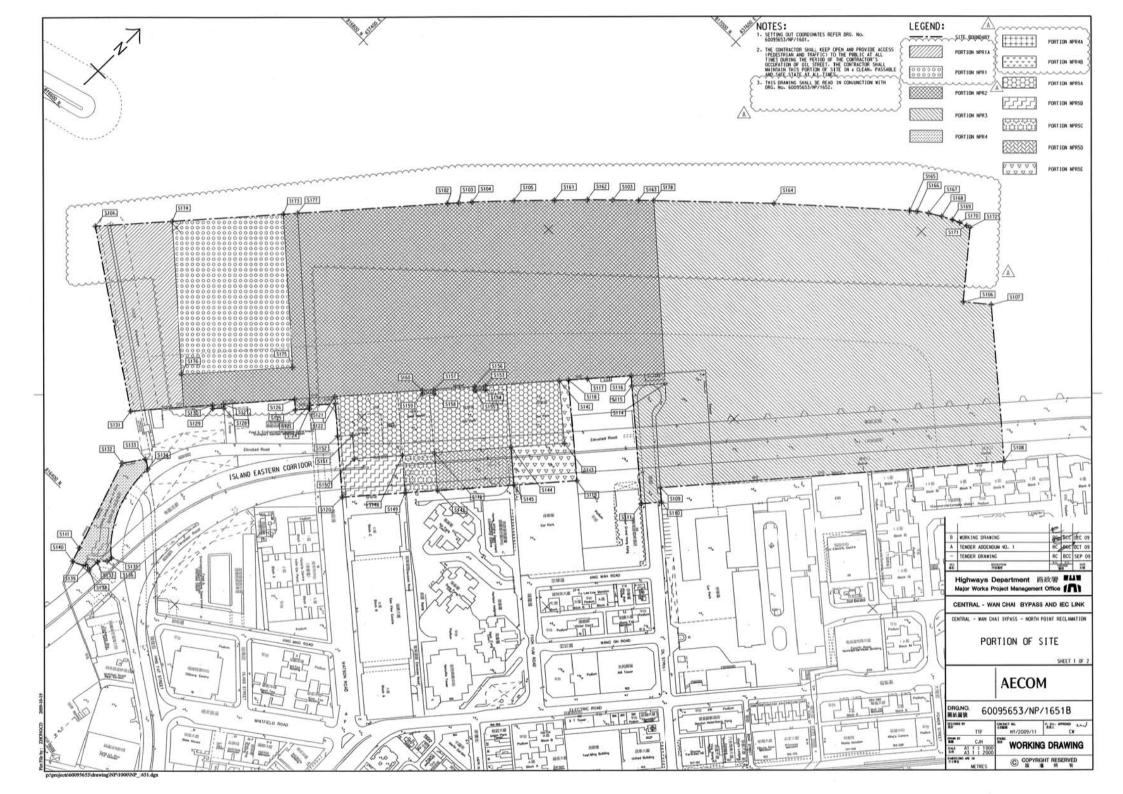
Contract No.	Key Construction Works	Recommended Mitigation Measures
HK/2009/01	• Nil	• Nil
HK/2009/02	• Nil	• Daily visual inspection of silt screen and silt curtain to ensure its operation properly.
		Implement silt curtain in accordance with the associated plans submitted to EPD.
HY/2009/15	Removal of temporary	 Daily visual inspection of silt screen and silt curtain to ensure its operation properly Implement silt curtain in accordance with the associated
	reclamation at TPCWAW	
	Reinstatement of existing	
	seawall at TPCWAE	
	Diaphragm wall cutting works at	plans submitted to EPD.
	TPCWAW	
	• Reinstate the seawall at Portion	
	XI	
HY/2009/19	• Nil	• Nil
HK/2012/08	Precast unit construction for Box 1	• To conform the installation and
	inside Dry dock	setting as in the silt screen and silt curtain deployment plan
	• Construction of culvert L Bay 8,	• To space out noisy equipment and
	Bay 12 and Bay 13	position as far as possible from sensitive receiver.
		 Daily visual inspection of silt screen and silt curtain to ensure its operation properly
HY/2010/08	Diversion pipe maintenance	To conform the installation and
	Diaphragm Wall Removal Works	setting as in the silt screen and silt curtain deployment plan
		Daily visual inspection of silt screen and silt curtain to ensure its operation properly

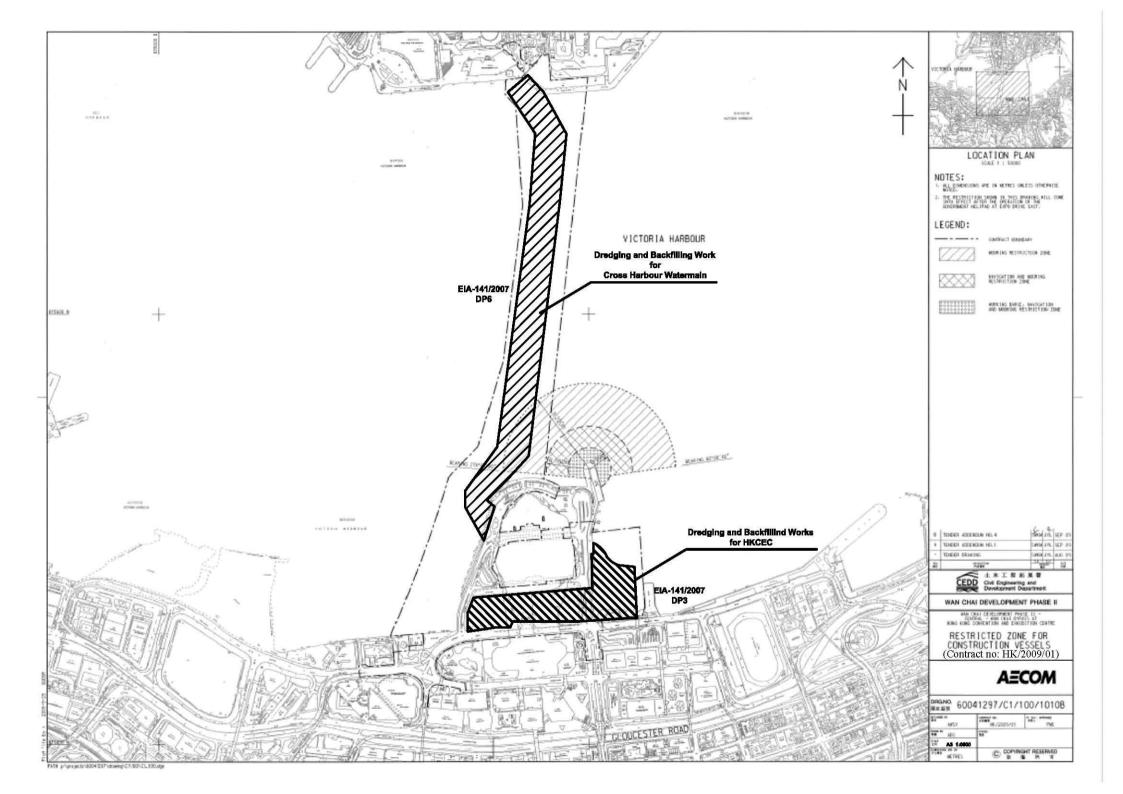


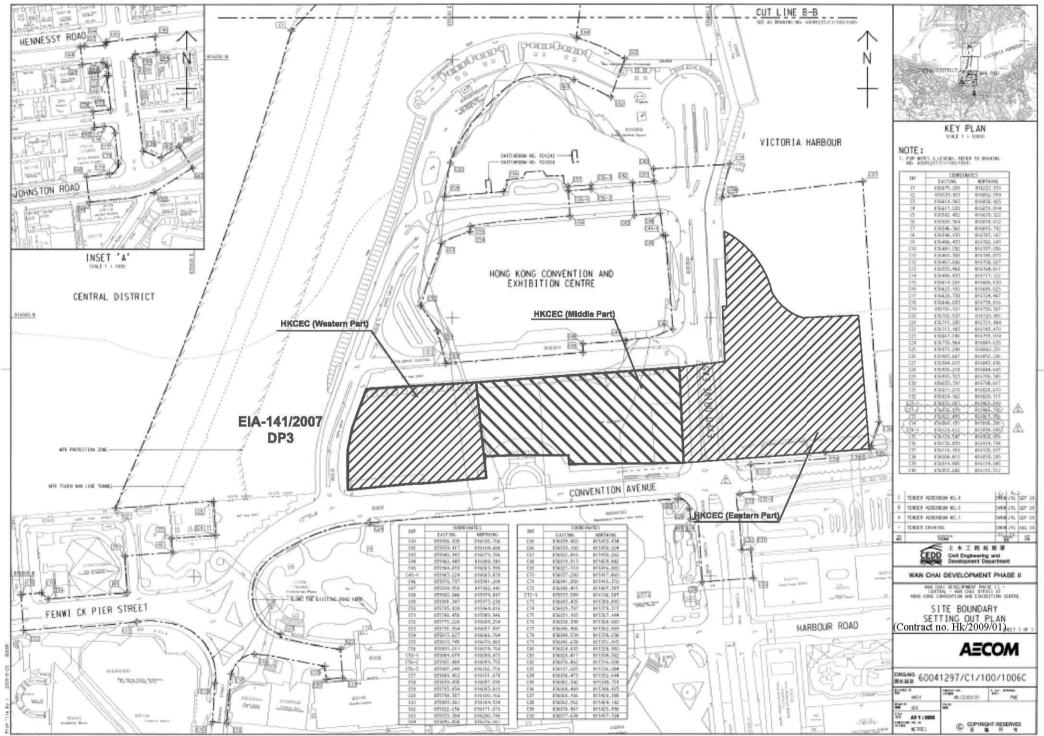
Figure 2.1

Project Layout

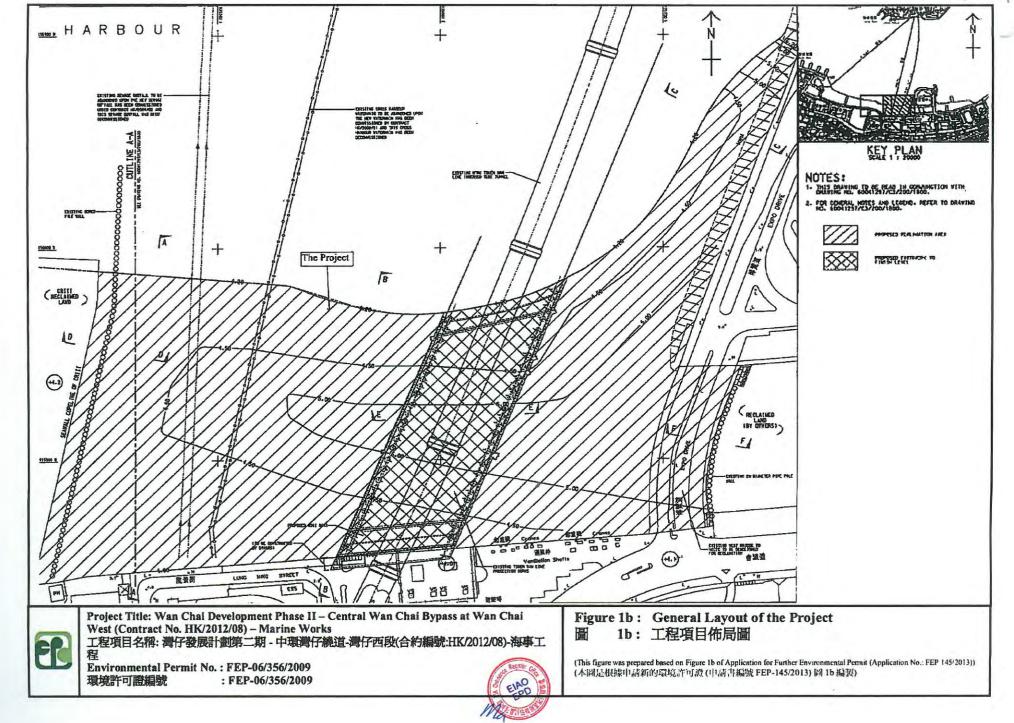


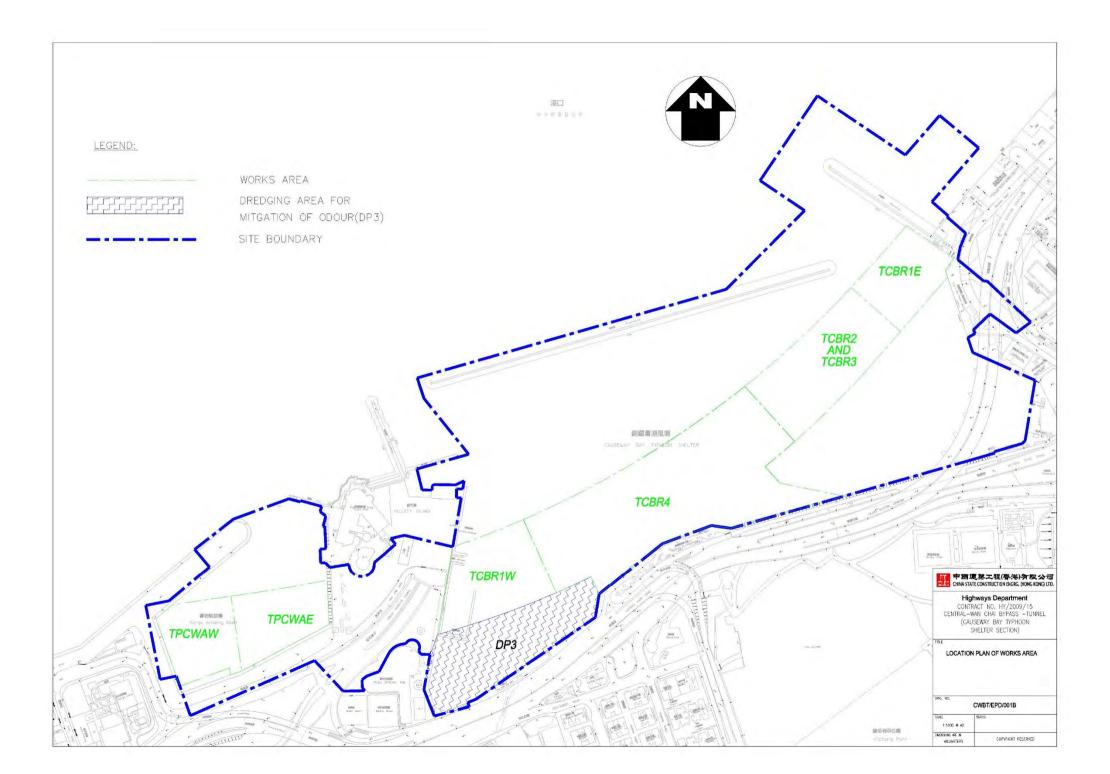


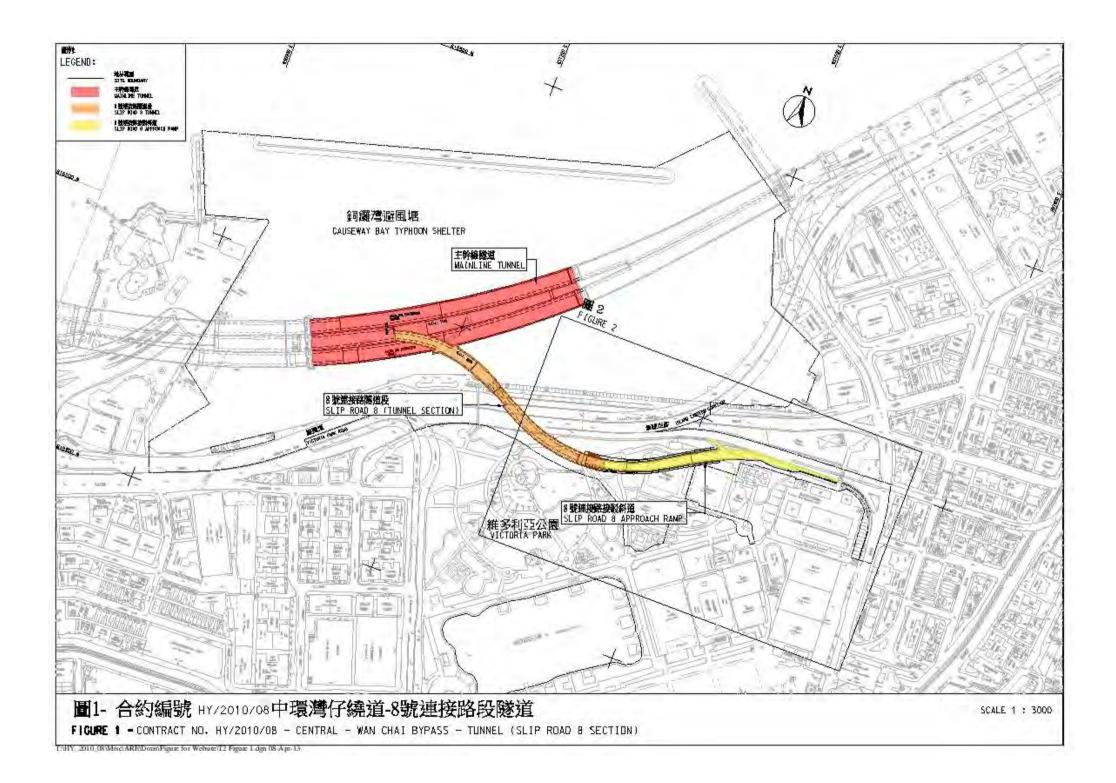


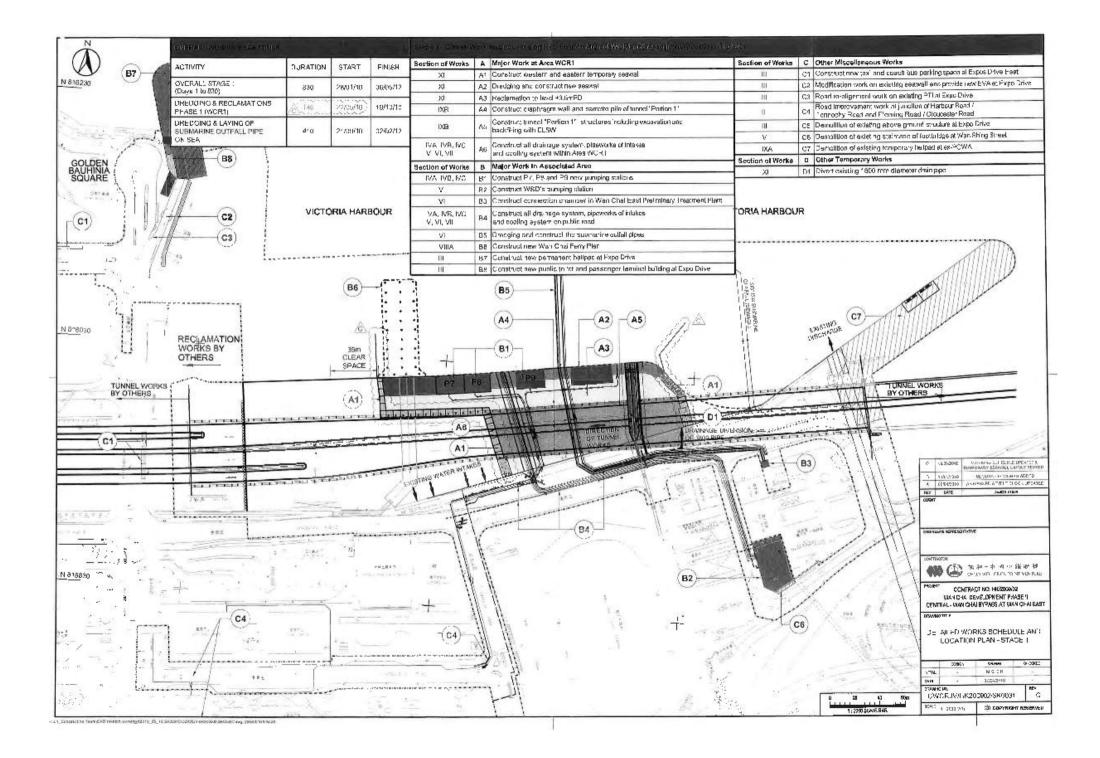


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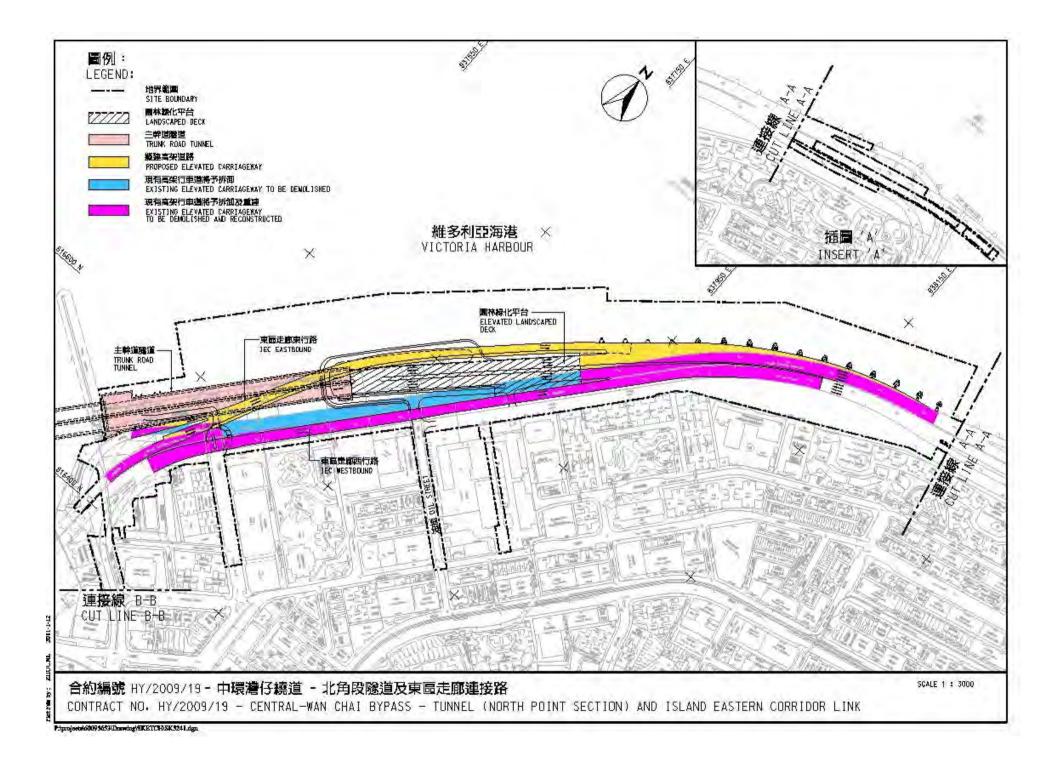




Figure 2.2

Project Organization Chart



Project Organization Chart

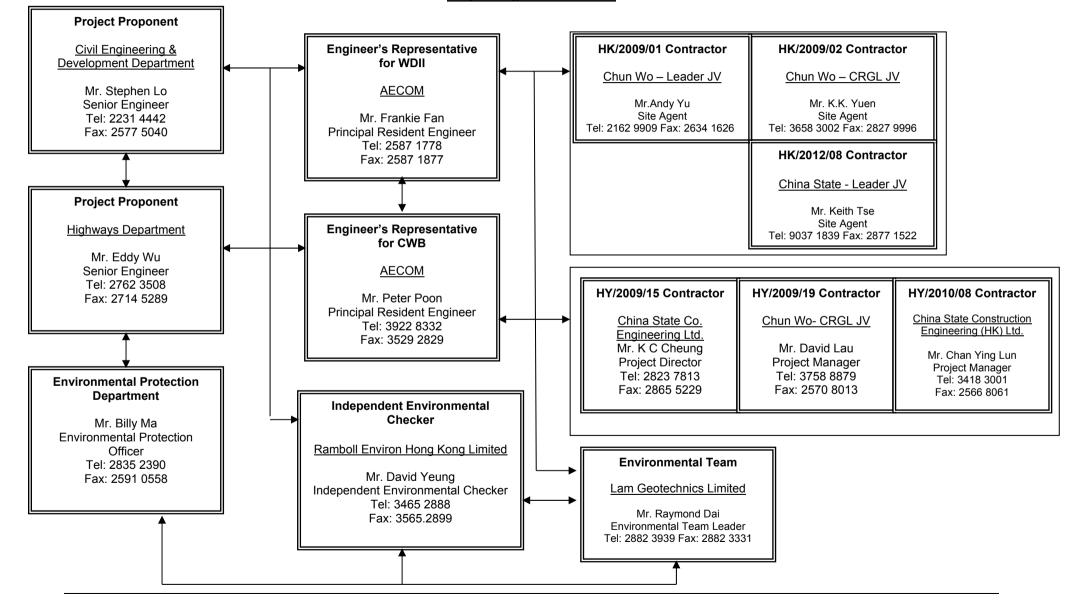
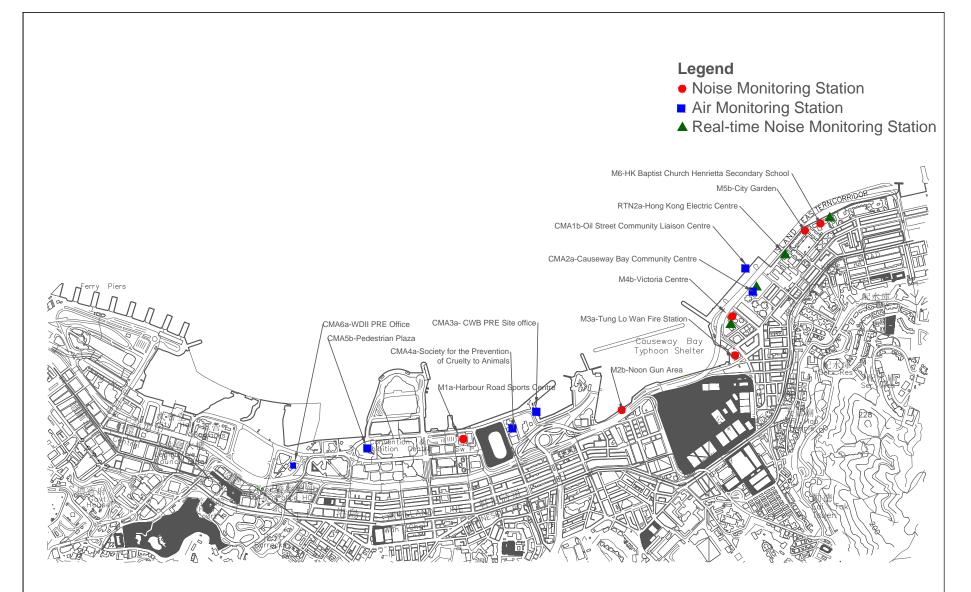




Figure 4.1

Locations of Monitoring Stations



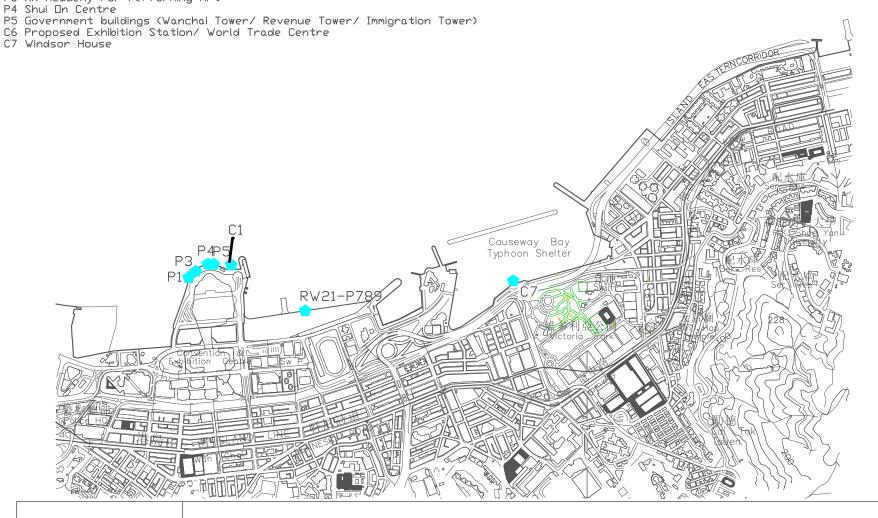
LOCATIONS OF AIR QUALITY AND NOISE MONITORING STATIONS



- 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

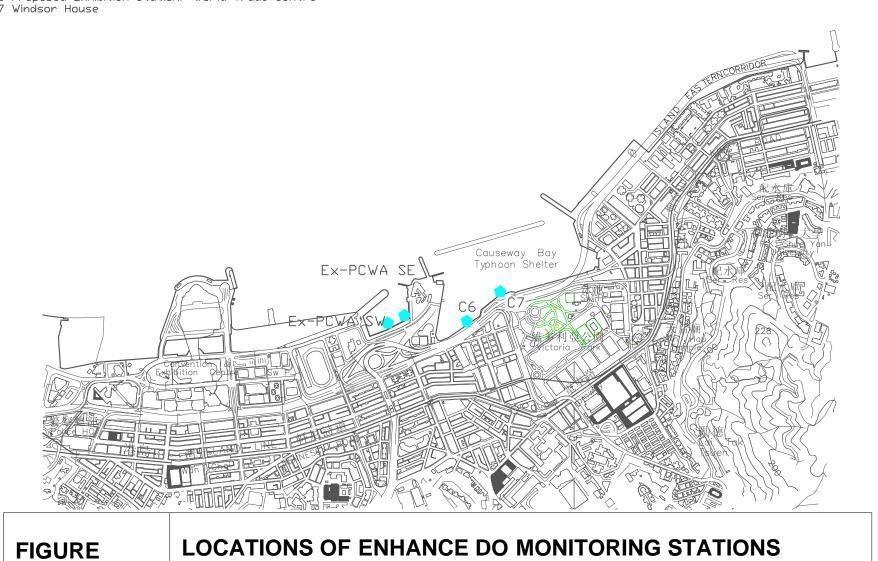
FIGURE

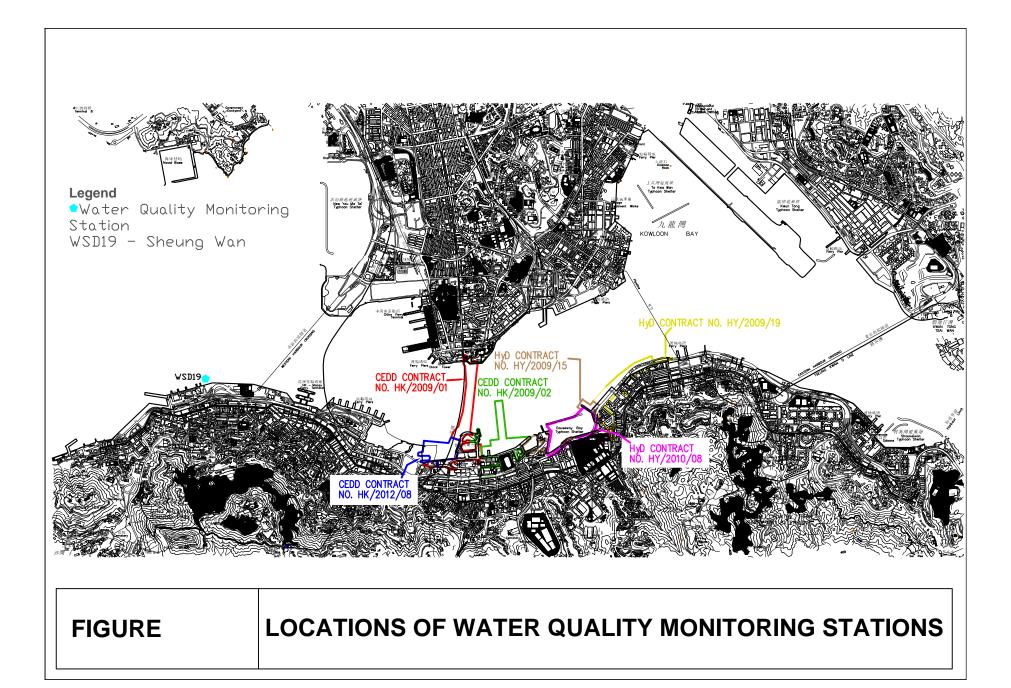


LOCATIONS OF WATER QUALITY MONITORING STATIONS

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





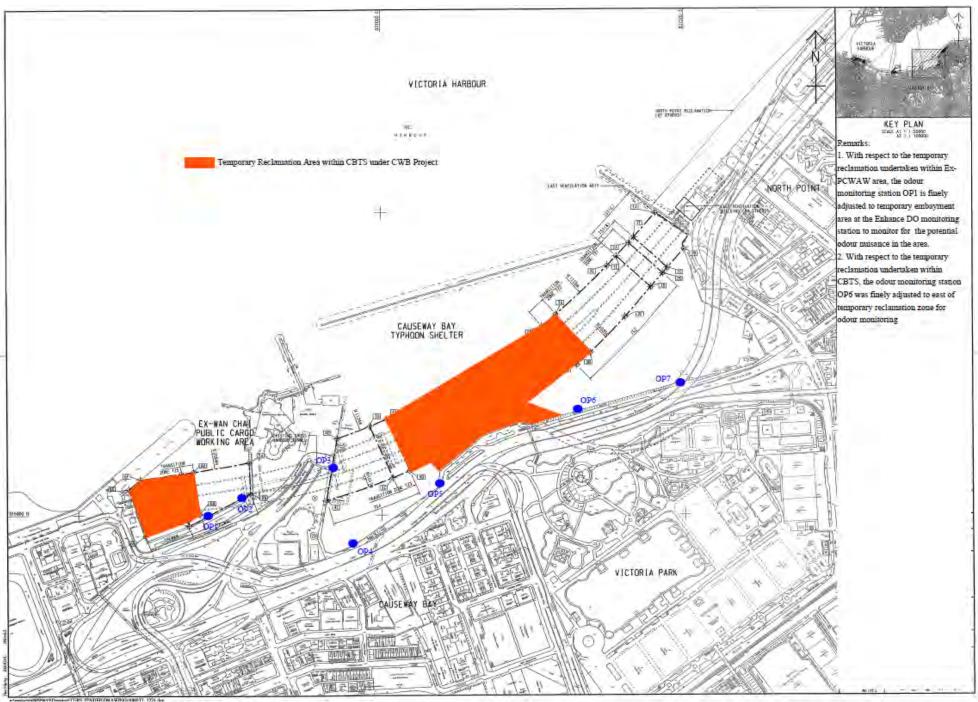


Figure: Locations of Odour Patrol Monitoring



Appendix 3.1

Environmental Mitigation Implementation Schedule

Wan Chai Development Phase II and Central-Wanchai Bypass

- Sampling, Field Measurement and Testing Works (Stage 3)

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Implementation Stages*				Relevant Legislation
	5	0	Agent	Des	С	0	Dec	and Guidelines
Constructio								
For the Whe	· · · · · · · · · · · · · · · · · · ·		1					
\$3.6.5	Four times a day watering of the work site with active operations.	Work site / during construction	Contractor		V			EIAO-TM
\$3.8.1	 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 3.1

Contract no. HK/2015/01

Wan Chai Development Phase II and Central-Wanchai Bypass

- Sampling, Field Measurement and Testing Works (Stage 3)

Monthly 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
\$3.5.6	For the dredging activities carried out in the vicinity of Police Officers' Club, the dredging operation will be restricted to only I 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 ¹		V			EIAO-TM
S3.8.8	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 For the What								

² CEDD will identify an implementation agent.

Wan Chai Development Phase II and Central-Wanchai Bypass

- Sampling, Field Measurement and Testing Works (Stage 3)

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Implementation Stages*			on	Relevant Legislation
			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 - 0	CWB (Within the Project Boundary)							
\$3.6.53 – \$3.6.54	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 3.1

Monthly EM&A Report

Contract no. HK/2015/01

Wan Chai Development Phase II and Central-Wanchai Bypass

- Sampling, Field Measurement and Testing Works (Stage 3)

Table A13.2 Implementation Schedule for Noise Control

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
Constructio	n Phase							
For the Who	ole Project							

Wan Chai Development Phase II and Central-Wanchai Bypass

- Sampling, Field Measurement and Testing Works (Stage 3)

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	nplem Sta	entati ges*	ion	Relevant Legislation							
	Environmental Protection Measures / Mitigation Measures	Location / Thining	Agent	Des	С	0	Dec	and Guidelines							
\$4.9.4	Good Site Practice:	Work Sites / During	Contractor		\checkmark			EIAO-TM, NCO							
	 Only well-maintained plant shall be operated on-site and plant shall be serviced regularly during the construction program. 	Construction	Construction												
	 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.														
For DP1 - 0	CWB (Within the Project Boundary)														

Appendix 3.1

Monthly EM&A Report

Contract no. HK/2015/01

Wan Chai Development Phase II and Central-Wanchai Bypass

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Implementation Stages*			on	Relevant Legislation
		, 	Agent	Des	С	0	Dec	and Guidelines
\$4.8.3 – \$4.8.5	 Use of quiet powered mechanical equipment, movable noise barrier and temporary noise barrier for the following tasks: 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 	Work Sites / During Construction	Contractor		V			EIAO-TM, NCO
For DP2 –	WDII Major Roads (Road P2)							
\$4.8.3 - \$4.8.4	Use of quiet powered mechanical equipment, movable noise barrier and temporary noise barrier for the following tasks: • Temporary road diversion • Resurfacing • At-grade roadwork	Work Sites / During Construction	Contractor		V			EIAO-TM, NCO
For DP3 -	Reclamation Works							
\$4.8.3 - \$4.8.4	Use of quiet powered mechanical equipment for the following task: Filling behind seawall Seawall construction	Work Sites / During Construction	Contractor		V			EIAO-TM, NCO

Wan Chai Development Phase II and Central-Wanchai Bypass

- Sampling, Field Measurement and Testing Works (Stage 3)

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

Appendix 3.1

Monthly EM&A Report

Contract no. HK/2015/01

Wan Chai Development Phase II and Central-Wanchai Bypass

- Sampling, Field Measurement and Testing Works (Stage 3)

 EIA Ref
 Environmental Protection Measures / Mitigation Measures
 Location / Timing
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Wan Chai Development Phase II and Central-Wanchai Bypass

- Sampling, Field Measurement and Testing Works (Stage 3)

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In		entati ges*	on	Relevant Legislation
		5	Agent	Des	С	0	Dec	and Guidelines
\$4.8.14 - \$4.8.18	 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 cantilevered noise barrier with 1m cantilever inclined at 45° with transparent panel on the eastbound slip road to the IEC about 350m length of 3.5m high vertical noise barrier with 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	~	√ #	1		EIAO-TM

Appendix 3.1

Contract no. HK/2015/01

Wan Chai Development Phase II and Central-Wanchai Bypass

- Sampling, Field Measurement and Testing Works (Stage 3)

Monthly EM&A Report

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	ImplementationStages*DesCODec		on	Relevant Legislation
	5	0	Agent	Des			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.

Wan Chai Development Phase II and Central-Wanchai Bypass

- Sampling, Field Measurement and Testing Works (Stage 3)

Table A13.3 Implementation Schedule for Water Quality Control

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location /	Implementation	In	•	entati ges*	on	Relevant Legislation
		Timing	Agent	Des	С	0	Dec	and Guidelines
Constructio	on Phase							
For DP3 – Boundary)	Reclamation Works, DP5 (Wan Chai East Sewage Outfall), DP6 (Cross-Harbo	our Water Mains	from Wan Chai to T	Tsim Sh	a Tsu	i), DP	1 – CW	B (within the Project
S5.8	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
S5.8	 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 3.1

Monthly EM&A Report

Contract no. HK/2015/01

Wan Chai Development Phase II and Central-Wanchai Bypass

EIA Ref	Environmental Protection Measures /	Mitigation Measures	Location /	Implementation	In		entati ges*	on	Relevant Legislation
			Timing Age	Agent	Des	С	0	Dec	and Guidelines
S5.8	The water body behind the temporary r typhoon shelter shall not be fully enclos		Work site / During the construction period	Contractor		V			EIAO-TM, WPCO
S5.8	As a mitigation measure, to avoid the ad within the temporary embayment		Work site / During the	Contractor		√			EIAO-TM, WPCO
	impermeable barrier, suspended from a and extending down to the seabed, wit the HKCEC1 commences. The ba discharge flows from Culvert L to th contractor will maintain this barrie HKCEC2W are carried out and the new	a floating boom on the water surface l be erected by the contractor before rrier will channel the stormwater ne outside of the embayment. The r until the reclamation works in	construction period						
S5.8, Figure 5.3	5.3 than the maximum production rates stated in the table below. These are the production rates without considering the effect of silt curtain.		Work site / During the construction period	Contractor		V			EIAO-TM, WPCO
	North Point Shoreline Zone (NPR) Causeway Bay TBW Shoreline Zone TCBR PCWA Zone TCBR	6,000 375 42,000 1,500 94 10,500 6,000 375 42,000 5,000 313 35,000							

Wan Chai Development Phase II and Central-Wanchai Bypass

- Sampling, Field Measurement and Testing Works (Stage 3)

EIA Ref	Environmental Protection Measures / Mitigation Measures		Location /	Implementation	In		entati ges*	on	Relevant Legislation		
		inigunon	inicusui es		Timing	Agent	Des	С	0	Dec	and Guidelines
	Wan Chai Shoreline Zone (WCR) HKCEC Shoreline Zone HKCEC Stage 1 & 3	6,000 1,500	375 94	42,000 10,500							
	(HKCEC) HKCEC Stage 2 Cross Harbour Water Mains	6,000 1,500	375	42,000							
	Wan Chai East Submarine Sewage Pipeline	1,500	94 94	10,500 10,500							
	Note: 1,500 m ³ per day shall be appli seawall of WCR1.										
S5.8, Figure 5.3	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 a	western so y partial so) to protect	eawall (wh eawall con	ich is in close struction at the	Work site / During the construction period	Contractor		V			EIAO-TM, WPCO
S5.8, Figure 5.3	For dredging within the Causeway Bay partially constructed to protect the nea dredging activities. For example, at T seawalls shall be constructed first (ab seawater intakes at the inner water would the remaining dredging activities along the	CBR1W, 1 Ove high v be protect	the souther water mark and from the	s from further rn and eastern k) so that the e impacts from	Work site / During the construction period	Contractor		\checkmark			EIAO-TM, WPCO
S5.8, Figure 5.3	Silt curtains shall be deployed around seawall dredging and seawall trench fill: TCBR and NP.				Work site / During the construction period	Contractor		V			EIAO-TM, WPCO
S5.8, Figure 5.3	Silt screens shall be applied to seawater in as stated below: Interim Construction Stage	pplications			Work site / During the construction period	Contractor		\checkmark			EIAO-TM, WPCO
	2009 with concurrent Bay, Sheung W dredging activities at Cooling water	Van, Wan Cl r intakes fo	hai, Kowloo or Hong Ko	an Ho, Quarry on South ng Convention Hong Kong							

Appendix 3.1

Monthly EM&A Report

Contract no. HK/2015/01

Wan Chai Development Phase II and Central-Wanchai Bypass

EIA Ref	Environmental Protection	n Measures / Mitigation Measures	Location /	Implementation	In		entati ges*	on	Relevant Legislation
			Timing	Agent	Des	С	0	Dec	and Guidelines
	TBW, NP and Water Mains Zone	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							
	Scenario 2B in late 2009/2010 with concurrent dredging activities at Sewage Pipelines Zone and TCBR.	WSD saltwater intakes at Sheung Wan, Wan Chai Cooling water intakes for Queensway Government Offices, Excelsior Hotel, World Trade Centre and Windsor House.							
	Scenario 2C in 2011 with concurrent dredging activities at HKCEC and TCBR.	WSD saltwater intakes at Sheung Wan and Reprovisioned WSD Wan Chai saltwater intake. Cooling water intakes for MTR South, Excelsior Hotel & World Trade Centre and reprovisioned Windsor House.							
\$5.8	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 d 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 the	noppers shall be controlled to prevent splashing of ne surrounding water. Barges or hoppers shall not t will cause the overflow of materials or polluted transportation; and							

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- Sampling, Field Measurement and Testing Works (Stage 3)

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.							
\$5.8	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

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location /	Implementation	In	nplem Stag		on	Relevant Legislation
		Timing	Agent	Des	С	0	Dec	and Guidelines
\$5.8	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 I 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 south, the dredging operations. Daily monitoring of SS at the cooling water intake shall be carried out at the seawater intakes during the dredging operations. Daily 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 ³ _					WPCO

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- Sampling, Field Measurement and Testing Works (Stage 3)

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location /	Implementation	In		entati ges*	on	Relevant Legislation
LIA KU	Environmental Protection Acasiles / Mitigation Measures	Timing	Agent	Des	С	0	Dec	and Guidelines
	hole Project							
S5.8	Construction Runoff and Drainage	Work site	Contractor		\checkmark			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						WPCO (TM-DSS)
	 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; 	1						
	 a sediment tank constructed from pre-formed individual cells of approximately 6 - 8 m3 capacity can be used for settling ground water prior to disposal; 							
	• oil interceptors shall be provided in the drainage system for the tunnels and regularly cleaned to prevent the release of oils and grease into the storm water drainage system after accidental spillages. The interceptor shall have a bypass to prevent flushing during periods of heavy rain;							
	• precautions and actions to be taken when a rainstorm is imminent or forecast, and during or after rainstorms. Particular attention shall be paid to the control of any silty surface runoff during storm events;							
	 on-site drainage system shall be installed prior to the commencement of other construction activities. Sediment traps shall be installed in order to minimise the sediment loading of the effluent prior to discharge; 							
	 All temporary and permanent drainage pipes and culverts provided to facilitate runoff discharge shall be adequately designed for the controlled release of storm flows. All sediment control measures shall be regularly inspected and maintained to ensure proper and efficient operation at all times and particularly following rain storms. The temporarily diverted drainage shall be reinstated to its original condition when the construction work is finished or the temporary diversion is no longer 							

³ CEDD will identify an implementation agent.

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- Sampling, Field Measurement and Testing Works (Stage 3)

Implementation Location / Implementation Relevant Legislation Stages* EIA Ref **Environmental Protection Measures / Mitigation Measures** Timing and Guidelines Agent Des С 0 Dec 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. ProPECC PN 1/94; S5.8 Sewage from Construction Work Force Work site / Contractor V During the WPCO (TM-DSS) Construction work force sewage discharges on site shall be connected to the construction existing trunk sewer or sewage treatment facilities. The construction sewage period 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. S5.8 Floating Debris and Refuse WPCO Work site and Contractor λ adjacent water Collection and removal of floating refuse shall be performed at regular intervals on a daily basis. The contractor shall be responsible for keeping the / During the construction water within the site boundary and the neighbouring water free from rubbish. period.

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- Sampling, Field Measurement and Testing Works (Stage 3)

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location /	Implementation Agent	Stages				Relevant Legislation and Guidelines
		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	V	V			WPCO
Operation	Phose							
	B (within the Project Boundary)							
\$5.8	 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 	CWB/During design and operational period	HyD/TD ³	V		V		WPCO
	nearby foul water manholes.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,							

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- Sampling, Field Measurement and Testing Works (Stage 3)

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

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

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

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- Sampling, Field Measurement and Testing Works (Stage 3)

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 and Guidelines
LITRI	Environmental Protection Measures / Mitigation Measures	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		\checkmark			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.							
86.7.3	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.							

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In		entati ges*	Relevant Legislation	
			Agent	Des	С	0	Dec	and Guidelines
\$6.7.5	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							
\$6.7.6	 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. 							

Wan Chai Development Phase II and Central-Wanchai Bypass

- Sampling, Field Measurement and Testing Works (Stage 3)

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In		entati ges*	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		V			

For the Whole Project

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In		entati ges*	on	Relevant Legislation
	and the second sec		Agent	Des	С	0	Dec	and Guidelines
\$6.7.7	 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 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	Des		0	Dec	Waste Disposal Ordinance (Cap. 354)

Wan Chai Development Phase II and Central-Wanchai Bypass

- Sampling, Field Measurement and Testing Works (Stage 3)

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

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Implementation Implementation Relevant Legislation Stages* EIA Ref Location / Timing **Environmental Protection Measures / Mitigation Measures** and Guidelines Agent Des С 0 Dec S6.7.10 General Refuse Work site / During the Contractor Public Health and construction period Municipal Services General refuse shall be stored in enclosed bins or compaction Ordinance (Cap. 132) 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. S6.7.11 Chemical Wastes Work site / During the Waste Disposal Contractor $\sqrt{}$ (Chemical Waste) construction period After use, chemical wastes (for example, cleaning fluids, (General) Regulation solvents, lubrication oil and fuel) shall be handled according to the Code of Practice on the Packaging, Labelling and Storage Code of Practice on of Chemical Wastes. Spent chemicals shall be collected by a the Packaging, licensed collector for disposal at the CWTF or other licensed Labelling and facility in accordance with the Waste Disposal (Chemical Storage of Chemical Waste) (General) Regulation. Wastes S6.7.12 ETWB TCW No. Construction and Demolition Material Work site / During the Contractor $\sqrt{}$ construction period 33/2002, 31/2004, C&D material shall be sorted on-site into inert C&D material 19/2005 (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.

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- Sampling, Field Measurement and Testing Works (Stage 3)

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Implementation Stages*			on	Relevant Legislation
	Environmental Frotection Measures / Minigation Measures	Location / Timing	Agent	Des	С	0	Dec	and Guidelines
\$6.7.13	In order to monitor the disposal of public fill and C&D waste at public filling facilities and landfills, respectively, and to control fly tipping, a trip-ticket system shall be included as one of the contractual requirements and implemented by the Environmental Team undertaking the environmental monitoring and audit work. An Independent Environment Checker shall be responsible for auditing the results of the system.	Work site / During the construction period	Contractor and Independent Environmental Checker		V			ETWB TCW No. 31/2004
\$6.7.14	 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. 	Work site / During the construction period	Contractor		V			ProPECC PN 1/94
	• 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.							

* 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		entati ges*	on	Relevant Legislation
	Environmental Protection Neusales / Mitgaton Measures	Elocation / Thining	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	V				Air Pollution Control Ordinance Noise Control Ordinance Waste Disposal Ordinance Waste Disposal (Chemical Waste) (General) Regulation

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- Sampling, Field Measurement and Testing Works (Stage 3)

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Ir	nplem Sta	entati ges*	Relevant Legislation	
				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		entati ges*	Relevant Legislation	
		,g	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). 							

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- Sampling, Field Measurement and Testing Works (Stage 3)

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	In		entati ges*	Relevant Legislation	
		Location, Thinng		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.							
	Waste Mitigation Measures							
	• 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 mining plant area 							
	within the mixing plant area.							
	 If necessary, there shall be clear and separated areas for stockpiling of untreated and treated materials. 							

* 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 Agent	Implementation Stages*				Relevant Legislation
	g			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							
8.9.7.3	Translocation of those potentially affected coral colonies to the nearby suitable habitats such as Junk Bay is recommended. A detailed translocation plan (including translocation methodology, monitoring of transplanted corals, etc.) should be drafted and approval by AFCD during the detailed design stage of the Project.	Ex-PCWA Basin and along seawall next to a public pier which is about 250 m away from the CBTS	CEDD/HyD	V				EIAO TM Annex 16 (Section 8.4) & EIAO Guidance Note No. 3/2002.

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

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Implementation Stages*				Relevant Legislation and Guidelines
		0	Agent	Des	С	0	Dec	and Guidelines
S.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		V			EIAO TM Annex 16 (Section 8.4) & EIAO Guidance Note No. 3/2002.

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

- Sampling, Field Measurement and Testing Works (Stage 3)

Table A13.7 Implementation Schedule for Landscape and Visual

EIA Ref	Envir	onmental 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 3.1

Monthly EM&A Report

Contract no. HK/2015/01

Wan Chai Development Phase II and Central-Wanchai Bypass

EIA Ref	Envir	onmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	In	nplem Sta	entati ges*	ion	Relevant Legislation and Guidelines
					Des	С	0	Dec	
Table 10.5	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 - Reci	amatio	n Works							
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 - War	Chai E	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

Wan Chai Development Phase II and Central-Wanchai Bypass - Sampling, Field Measurement and Testing Works (Stage 3)

Monthly EM&A Report

EIA Ref	Envir	onmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	In	Sta	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
	ss-Harh	our Water Mains from Wan Chai to Tsim Sha Tsui							
Refer to EIA- 058/2001 Table 10.13		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		1						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, footbridges and noise barriers and enclosure.	Work site / During Design Stage and Operation Phases	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	\checkmark	V	V		ETWB TCW 2/2004

Appendix 3.1

Monthly EM&A Report

Contract no. HK/2015/01

Wan Chai Development Phase II and Central-Wanchai Bypass

- Sampling, Field Measurement and Testing Works (Stage 3)

EIA Ref	Enviro	nmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	In	nplem Sta	entati ges*		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/					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	$CEDD^4$					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			V		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				ETWB TCW 2/2004
Figure 10.5.1-			Design Stage and						
10.5.5			Operation Phases						
		n the Project Boundary)	1	T					
Table 10.6,	OM1	Aesthetic design of buildings and road-related structures,	Work site / During	HyD					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					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		\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		V	\checkmark		ETWB TCW 2/2004
Figure 10.5.1-			Design Stage and						
10.5.5	0144		Operation Phases			1			
Table 10.6,	OM6	Aesthetic design of roadside amenity areas.	Work site / During	HyD	\checkmark	V	\checkmark		ETWB TCW 2/2004
Figure 10.5.1-			Design Stage and						
10.5.5			Operation Phases						
For DP2 – WD	I Major	Roads (Road P2)							

⁴ CEDD will identify an implementation agent

Wan Chai Development Phase II and Central-Wanchai Bypass

- Sampling, Field Measurement and Testing Works (Stage 3)

EIA Ref	Environmental Protection Measures / Mitigation Measures		Location / Timing	Implementation Agent	Implementation Stages*			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		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	lamation	ı Works	r.	r					a.
Table 10.6, Figure 10.5.1- 10.5.5	OM4	Aesthetic design of proposed waterfront promenade.	Work site / During Design Stage and Operation Phases	CEDD ⁵	V	V	V		ETWB TCW 2/2004

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

 5 CEDD will identify an implementation agent

Appendix 3.1



Appendix 4.1

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 Season				
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 Intake							
SS in mg L ⁻¹	15.00	22.13	18.42	27.54			
Turbidity in NTU	9.10	10.25	11.35	12.71			
DO in mg/L	3.36	2.73	3.02	2.44			

Remarks:

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

Action and Limit Level for Enhance DO Monitoring

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

Action and Limit Levels for Odour Patrol

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



Appendix 4.2

Copies of Calibration Certificates





CERTIFICATE OF CALIBRATION

Item tested						
Description:	Sound Level Meter	(Type 1)		Microphone		
Manufacturer:	B & K			B&K		
Type/Model No.:	2236			4188		
Serial/Equipment No.:	2100736		,	2288941		
Adaptors used:	(H)			- R		
Item submitted by						
Customer Name:	Lam Geotechnics I	Limited				
Address of Customer:						
Request No .:	 International 					
Date of receipt:	03-Dec-2015					
Date of test:	04-Dec-2015					
Reference equipment	used in the calibr	ation				
Description:	Model:	Serial No.		Expiry Date:	Trace	eable to:
Multi function sound calibrator	B&K 4226	2288444		19-Jun-2016	CIGIS	MEC
Signal generator	DS 360	33873		16-Apr-2016	CEPR	EI
Signal generator	DS 360	61227		16-Apr-2016	CEPR	El
Ambient conditions						
Temperature:	22 ± 1 °C					
Relative humidity:	50 ± 10 %					
Air pressure:	1010 ± 10 hPa					

Test specifications

- 1, The Sound Level Meter has been calibrated in accordance with the requirements as specified in BS 7580: Part 1: 1997 and the lab calibration procedure SMTP004-CA-152.
- 2. The electrical tests were performed using an electrical signal substituted for the microphone which was removed and replaced by an equivalent capacitance within a tolerance of ±20%.
- The acoustic calibration was performed using an B&K 4226 sound calibrator and corrections was applied for the difference between the free-field and pressure responsess of the Sound Level Meter.

Test results

This is to certify that the Sound Level Meter conforms to BS 7580: Part 1: 1997 for the conditions under which the test was performed.

Details of the performed measurements are presented on page 2 of this certificate.

Actual Measurement data are documented on worksheets.

Approved Signatory:

Al Huang Jian Min/Feng Jun Qi

05-Dec-2015 Company Chop:



Comments: The results reported in this certificate refer to the condition of the instrument on the date of calibration and carry no implication regarding the long-term stability of the instrument.

Date:

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Form No.CARP152-1/Issue 1/Rev.C/01/02/2007



綜合試驗有限公司 SOILS & MATERIALS ENGINEERING CO., LTD.

G/F., 9/F., 12/F., 13/F. & 20/F., Leader Centre, 37 Wong Chuk Hang Road, Aberdeen, Hong Kong. 香港黄门坑道37號利達中心地下,9樓,12樓,13樓及20樓 E-mail: smec@cigismec.com Website: www.cigismec.com

15CA1203 04-01





CERTIFICATE OF CALIBRATION

(Continuation Page)

Page 2 of 2

1, Electrical Tests

Certificate No .:

The electrical tests were perfomed using an equivalent capacitance substituted for the microphone. The results are given in below with test status and the estimated uncertainties. The "Pass" means the result of the test is inside the tolerances stated in the test specifications. The "-" means the result of test is outside these tolerances.

Test:	Subtest:	Status:	Expanded Uncertanity (dB)	Coverage Factor
Self-generated noise	A	Pass	0.3	
Con gonoratoa noibo	C	Pass	1.0	2.1
	Lin	Pass	2.0	2.2
Linearity range for Leq	At reference range , Step 5 dB at 4 kHz	Pass	0.3	
	Reference SPL on all other ranges	Pass	0.3	
	2 dB below upper limit of each range	Pass	0.3	
	2 dB above lower limit of each range	Pass	0.3	
Linearity range for SPL	At reference range, Step 5 dB at 4 kHz	Pass	0.3	
Frequency weightings	A	Pass	0.3	
	С	Pass	0.3	
	Lin	Pass	0.3	
Time weightings	Single Burst Fast	Pass	0.3	
	Single Burst Slow	Pass	0.3	
Peak response	Single 100µs rectangular pulse	Pass	0.3	
R.M.S. accuracy	Crest factor of 3	Pass	0.3	
Time weighting I	Single burst 5 ms at 2000 Hz	Pass	0.3	
	Repeated at frequency of 100 Hz	Pass	0.3	
Time averaging	1 ms burst duty factor 1/10 ³ at 4kHz	Pass	0.3	
3 3	1 ms burst duty factor 1/10 ⁴ at 4kHz	Pass	0.3	
Pulse range	Single burst 10 ms at 4 kHz	Pass	0.4	
Sound exposure level	Single burst 10 ms at 4 kHz	Pass	0.4	
Overload indication	SPL	Pass	0.3	
	Leq	Pass	0.4	

2, Acoustic tests

The complete sound level meter was calibrated on the reference range using a B&K 4226 acoustic calibrator with 1000Hz and SPL 94 dB. The sensitivity of the sound level meter was adjusted. The test result at 125 Hz and 8000 Hz are given in below with test status and the estimated uncertainties.

Test:	Subtest	Status	Expanded Uncertanity (dB)	Coverage Factor
Acoustic response	Weighting A at 125 Hz	Pass	0.3	
	Weighting A at 8000 Hz	Pass	0.5	

Response to associated sound calibrator

N/A

3,

The expanded uncertainties have been calculated in accordance with the ISO Publication "Guide to the expression of uncertainty in measurement", and gives an interval estimated to have a level of confidence of 95%. A coverage factor of 2 is assumed unless explicitly stated.



The standard(s) and equipment used in the calibration are traceable to national or international recognised standards and are calibrated on a schedule to maintain the required accuracy level.

Soils & Materials Engineering Co., Ltd.

Form No.CARP152-2/Issue 1/Rev.C/01/02/2007



綜合試驗有限公司 SOILS & MATERIALS ENGINEERING CO., LTD.

G/F., 9/F., 12/F., 13/F. & 20/F., Leader Centre, 37 Wong Chuk Hang Road, Aberdeen, Hong Kong. 香港黃竹坑道37號利達中心地下,9樓,12樓,13樓及20樓 E-mail: smec@cigismec.com Website: www.cigismec.com





CERTIFICATE OF CALIBRATION

Certificate No.:	16CA0413 02		Page	1	of	2
Item tested						
Description: Manufacturer: Type/Model No.: Serial/Equipment No.: Adaptors used:	Sound Level Mete B & K 2250-L 2722310 -	r (Type 1)	Microphone B & K 4950 2698702 -		Preamp B & K ZC0032 13318	
Item submitted by						
Customer Name: Address of Customer: Request No.: Date of receipt:	Lam Geotechnics - - 13-Apr-2016	Limited				
Date of test:	09-May-2016					
Reference equipment i	used in the calib	ration				
Description:	Model:	Serial No.	Expiry Date:		Tracea	ble to:
Multi function sound calibrator	B&K 4226	2288444	19-Jun-2016		CIGISM	EC
Signal generator	DS 360	33873	18-Apr-2017		CEPRE	
Signal generator	DS 360	61227	18-Apr-2017		CEPREI	
Ambient conditions						
Temperature:	21 ± 1 °C					
Relative humidity:	60 ± 10 %					
Air pressure:	1005 ± 5 hPa					
Test specifications						

- 1. The Sound Level Meter has been calibrated in accordance with the requirements as specified in BS 7580: Part 1: 1997 and the lab calibration procedure SMTP004-CA-152.
- 2. The electrical tests were performed using an electrical signal substituted for the microphone which was removed and replaced by an equivalent capacitance within a tolerance of ±20%.
- 3. The acoustic calibration was performed using an B&K 4226 sound calibrator and corrections was applied for the difference between the free-field and pressure responsess of the Sound Level Meter.

Test results

This is to certify that the Sound Level Meter conforms to BS 7580: Part 1: 1997 for the conditions under which the test was performed.

Details of the performed measurements are presented on page 2 of this certificate.

Actual Measurement data are documented on worksheets.

Approved Signatory:

Huand in/Fena Jun Qi lian

Company Chop:



Comments: The results reported in this certificate refer to the condition of the instrument on the date of calibration and carry no implication regarding the long-term stability of the instrument.

10-May-2016

Date:

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Form No CARP152-1/Issue 1/Rev C/01/02/2007



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G/F, 9/F, 12/F, 13/F. & 20/F, Leader Centre, 37 Wong Chuk Hang Road, Aberdeen, Hong Kong. 香港黃竹坑道37號利達中心地下,9樓,12樓,13樓及20樓 E-mail: smec@cigismec.com Website: www.cigismec.com

16CA0413 02

Tel : (852) 2873 6860 Fax : (852) 2555 7533



CERTIFICATE OF CALIBRATION

(Continuation Page)

Page 2 of 2

1, Electrical Tests

Certificate No .:

The electrical tests were performed using an equivalent capacitance substituted for the microphone. The results are given in below with test status and the estimated uncertainties. The "Pass" means the result of the test is inside the tolerances stated in the test specifications. The "-" means the result of test is outside these tolerances.

			Expanded	Coverage
Test:	Subtest:	Status:	Uncertanity (dB)	Factor
Self-generated noise	A	Pass	0.3	
	С	Pass	0.8	
	Lin	Pass	1.6	
Linearity range for Leq	At reference range , Step 5 dB at 4 kHz	Pass	0.3	
	Reference SPL on all other ranges	Pass	0.3	
	2 dB below upper limit of each range	Pass	0.3	
	2 dB above lower limit of each range	Pass	0.3	
Linearity range for SPL	At reference range , Step 5 dB at 4 kHz	Pass	0.3	
Frequency weightings	A	Pass	0.3	
	С	Pass	0.3	
	Lin	Pass	0.3	
Time weightings	Single Burst Fast	Pass	0.3	
	Single Burst Slow	Pass	0.3	
Peak response	Single 100µs rectangular pulse	Pass	0.3	
R.M.S. accuracy	Crest factor of 3	Pass	0.3	
Time weighting I	Single burst 5 ms at 2000 Hz	Pass	0.3	
	Repeated at frequency of 100 Hz	Pass	0.3	
Time averaging	1 ms burst duty factor 1/10 ³ at 4kHz	Pass	0.3	
	1 ms burst duty factor 1/10 ⁴ at 4kHz	Pass	0.3	
Pulse range	Single burst 10 ms at 4 kHz	Pass	0.4	
Sound exposure level	Single burst 10 ms at 4 kHz	Pass	0.4	
Overload indication	SPL	Pass	0.3	
	Leq	Pass	0.4	

2, Acoustic tests

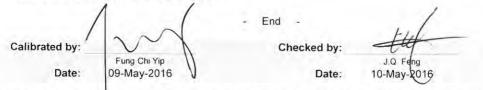
The complete sound level meter was calibrated on the reference range using a B&K 4226 acoustic calibrator with 1000Hz and SPL 94 dB. The sensitivity of the sound level meter was adjusted. The test result at 125 Hz and 8000 Hz are given in below with test status and the estimated uncertainties.

Test:	Subtest	Status	Expanded Uncertanity (dB)	Coverage Factor
Acoustic response	Weighting A at 125 Hz Weighting A at 8000 Hz	Pass Pass	0.3 0.5	

3, Response to associated sound calibrator

N/A

The expanded uncertainties have been calculated in accordance with the ISO Publication "Guide to the expression of uncertainty in measurement", and gives an interval estimated to have a level of confidence of 95%. A coverage factor of 2 is assumed unless explicitly stated.



The standard(s) and equipment used in the calibration are traceable to national or international recognised standards and are calibrated on a schedule to maintain the required accuracy level.

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Form No CARP152-2/Issue 1/Rev C/01/02/2007



Information supplied	l by customer:		
CONTACT:	MR. SAM LAM	WORK ORDER:	HK1610339
CLIENT:	LAM GEOTECHNICS LIMITED		
DATE RECEIVED:	05/07/2016		
DATE OF ISSUE:	11/07/2016		
ADDRESS:	11/F, CENTRE POINT, 181-185, GI	LOUCESTER ROAL	D,
	WANCHAI, HONG KONG		
PROJECT:			

METHOD OF PERFORMANCE CHECK/ CALIBRATION:

Ref: APHA22nd ed 2130B

COMMENTS

It is certified that the item under performance check/calibration has been calibrated/checked by corresponding calibrated equipment in the laboratory.

Maximum Tolerance and calibration frequency stated in the report, unless otherwise stated, the internal acceptance criteria of Pilot Testing Limited will be followed.

Scope of Test:	Turbidity
Equipment Type:	Turbidimeter
Brand Name:	Xin Rui
Model No.:	WGZ-3B
Serial No.:	1309192
Equipment No.:	
Date of Calibration:	11/07/2016
Damanlan	

Remarks:

This is the Final Report. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release.

Approved Signatory:

Ms. Wong Po Yan, Pauline Testing Engineer Issue Date:

11/07/2016

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WORK ORDER:	HK1610339
DATE OF ISSUE:	11/07/2016
CLIENT:	LAM GEOTECHNICS LIMITED

Equipment Type:	Turbidimeter	
Brand Name:	Xin Rui	
Model No.:	WGZ-3B	
Serial No.:	1309192	
Equipment No.:		
Date of Calibration:	11/07/2016	
Date of next Calibation:	11/10/2016	

Parameters:

Turbidity

Method Ref: APHA 22nd ed. 2130B

Expected Reading (NTU)	Display Reading (NTU)	Tolerance	
0	0.00		
4	4.20	5.0%	
10	10.0	0.0%	
40	39.0	-2.5%	
100	100	0.0%	
400	390	-2.5%	
1000	990	-1.0%	
	Tolerance Limit (±)	10%	

Remark: "Displayed Reading" presents the figures shown on item under calibration/checking regardless of equipment precision or significant figures.



Information supplied	by customer:	S. 1. 1. 1. 1. 1. 1. 1. 1.	
CONTACT:	MR. SAM LAM	WORK ORDER:	HK1610345
CLIENT:	LAM GEOTECHNICS LIMITED		
DATE RECEIVED:	05/07/2016		
DATE OF ISSUE:	11/07/2016		
ADDRESS:	11/F, CENTRE POINT, 181-185, G	LOUCESTER ROAL	D,
	WANCHAI, HONG KONG		
PROJECT:			

METHOD OF PERFORMANCE CHECK/ CALIBRATION: Ref: APHA22nd ed 2130B

COMMENTS

It is certified that the item under performance check/calibration has been calibrated/checked by corresponding calibrated equipment in the laboratory.

Maximum Tolerance and calibration frequency stated in the report, unless otherwise stated, the internal acceptance criteria of Pilot Testing Limited will be followed.

Scope of Test:	Turbidity	
Equipment Type:	Turbidimeter	
Brand Name:	Xin Rui	
Model No.:	WGZ-3B	
Serial No.:	1203015	
Equipment No.:		
Date of Calibration:	11/07/2016	

Remarks:

This is the Final Report. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release.

Approved Signatory:

Ms. Wong Po Yan, Pauline Testing Engineer Issue Date:

11/07/2016

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Page 2/2



REPORT OF EQUIPMENT PERFORMANCE CHECK / CALIBRATION

WORK ORDER:	HK1610345
DATE OF ISSUE:	11/07/2016
CLIENT:	LAM GEOTECHNICS LIMITED

Equipment Type:	Turbidimeter	
Brand Name:	Xin Rui	
Model No.:	WGZ-3B	
Serial No.:	1203015	
Equipment No.:		
Date of Calibration:	11/07/2016	
Date of next Calibation:	11/10/2016	

Parameters:

Turbidity

Method Ref: APHA 22nd ed. 2130B

Expected Reading (NTU)	Display Reading (NTU)	Tolerance	
0	0.00		
4	4.10	2.5%	
10	10.7	7.0%	
40	40.7	1.8%	
100	105	5.0%	
400	396	-1.0%	
1000	1007	0.7%	
	Tolerance Limit (±)	10%	

Remark: "Displayed Reading" presents the figures shown on item under calibration/checking regardless of equipment precision or significant figures.



Page 1/2

REPORT OF EQUIPMENT PERFORMANCE CHECK / CALIBRATION

Information supplied	by customer:		
CONTACT:	MR. SAM LAM	WORK ORDER:	HK1610364
CLIENT:	LAM GEOTECHNICS LIMITED		
DATE RECEIVED:	19/07/2016		
DATE OF ISSUE:	19/07/2016		
ADDRESS:	11/F, CENTRE POINT, 181-185, GI	LOUCESTER ROAL	D,
	WANCHAI, HONG KONG		
PROJECT:	the second s		

METHOD OF PERFORMANCE CHECK/ CALIBRATION:

Ref: APHA22nd ed 2130B

COMMENTS

It is certified that the item under performance check/calibration has been calibrated/checked by corresponding calibrated equipment in the laboratory.

Maximum Tolerance and calibration frequency stated in the report, unless otherwise stated, the internal acceptance criteria of Pilot Testing Limited will be followed.

Scope of Test:	Turbidity	
Equipment Type:	Turbidimeter	
Brand Name:	Xin Rui	
Model No.:	WGZ-3B	
Serial No.:	1512036	
Equipment No.:	and the second se	
Date of Calibration:	19/07/2016	

Remarks:

This is the Final Report. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release.

Approved Signatory:

Ms. Wong Po Yan, Pauline Testing Engineer Issue Date:

19/07/2016

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WORK ORDER:	HK1610364
DATE OF ISSUE:	19/07/2016
CLIENT:	LAM GEOTECHNICS LIMITED

Equipment Type:	Turbidimeter	
Brand Name:	Xin Rui	
Model No.:	WGZ-3B	
Serial No.:	1512036	
Equipment No.:		
Date of Calibration:	19/07/2016	
Date of next Calibation:	19/10/2016	

Parameters:

Turbidity

Method Ref: APHA 22nd ed. 2130B

Expected Reading (NTU)	Display Reading (NTU)	Tolerance	
0	0.00		
4	4.06	1.5%	
10	9.45	-5.5%	
40	41.1	2.8%	
100	99.3	-0.7%	
400	427	6.8%	
1000	992	-0.8%	-
	Tolerance Limit (±)	10%	

Remark: "Displayed Reading" presents the figures shown on item under calibration/checking regardless of equipment precision or significant figures.



Information supplied	by customer:		
CONTACT:	MR. SAM LAM	WORK ORDER:	HK1610310
CLIENT:	LAM GEOTECHNICS LIMITED		
DATE RECEIVED:	08/06/2016		
DATE OF ISSUE:	15/06/2016		
ADDRESS:	11/F, CENTRE POINT, 181-185, G	LOUCESTER ROAL	D,
	WANCHAI, HONG KONG		
PROJECT:			

METHOD OF PERFORMANCE CHECK/ CALIBRATION: Ref: APHA22nd ed 2130B

COMMENTS

It is certified that the item under performance check/calibration has been calibrated/checked by corresponding calibrated equipment in the laboratory.

Maximum Tolerance and calibration frequency stated in the report, unless otherwise stated, the internal acceptance criteria of Pilot Testing Limited will be followed.

Scope of Test:	Turbidity	
Equipment Type:	Turbidimeter	
Brand Name:	Xin Rui	
Model No.:	WGZ-3B	
Serial No.:	1512046	
Equipment No.:		
Date of Calibration:	08/06/2016	

Remarks:

This is the Final Report. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release.

Approved Signatory:

Ms. Wong Po Yan, Pauline

Issue Date:

15/06/2016

Phone +852 2527 6691 | Email info@pilot-testing.com

Testing Engineer

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WORK ORDER:	HK1610310
DATE OF ISSUE:	15/06/2016
CLIENT:	LAM GEOTECHNICS LIMITED

Equipment Type:	Turbidimeter	
Brand Name:	Xin Rui	
Model No.:	WGZ-3B	
Serial No.:	1512046	
Equipment No.:		
Date of Calibration:	08/06/2016	
Date of next Calibation:	08/09/2016	

Parameters:

Turbidity

Method Ref: APHA 22nd ed. 2130B

Expected Reading (NTU)	Display Reading (NTU)	Tolerance	
0	0.00		
4	4.20	5.0%	
10	9.85	-1.5%	
40	42.0	5.0%	
100	96.0	-4.0%	
400	410	2.5%	
1000	975	-2.5%	
	Tolerance Limit (±)	10%	

Remark: "Displayed Reading" presents the figures shown on item under calibration/checking regardless of equipment precision or significant figures.



Information supplied	by customer:		
CONTACT:	MR. SAM LAM	WORK ORDER:	HK1610441
CLIENT:	LAM GEOTECHNICS LIMITED		
DATE RECEIVED:	02/09/2016		
DATE OF ISSUE:	05/09/2016		
ADDRESS:	11/F, CENTRE POINT, 181-185, G	LOUCESTER ROAL	D,
	WANCHAI, HONG KONG		
PROJECT:			

METHOD OF PERFORMANCE CHECK/ CALIBRATION: Ref: APHA22nd ed 2130B

COMMENTS

It is certified that the item under performance check/calibration has been calibrated/checked by corresponding calibrated equipment in the laboratory.

Maximum Tolerance and calibration frequency stated in the report, unless otherwise stated, the internal acceptance criteria of Pilot Testing Limited will be followed.

Scope of Test:	Turbidity	
Equipment Type:	Turbidimeter	
Brand Name:	Xin Rui	
Model No.:	WGZ-3B	
Serial No.:	1512046	
Equipment No.:		
Date of Calibration:	05/09/2016	

Remarks:

This is the Final Report. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release.

Approved Signatory:

Ms. Wong Po Yan, Pauline

Testing Engineer

Issue Date:

05/09/2016

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WORK ORDER:	HK1610441
DATE OF ISSUE:	05/09/2016
CLIENT:	LAM GEOTECHNICS LIMITED

Equipment Type:	Turbidimeter	
Brand Name:	Xin Rui	
Model No.:	WGZ-3B	
Serial No.:	1512046	
Equipment No.:		
Date of Calibration:	05/09/2016	
Date of next Calibation:	05/12/2016	

Parameters:

Turbidity

Method Ref: APHA 22nd ed. 2130B

Expected Reading (NTU)	Display Reading (NTU)	Tolerance	
0	0.00		
4	4.10	2.5%	
10	10.1	1.0%	
40	41.2	3.0%	
100	109	9.0%	
400	407	1.8%	
1000	1000	0.0%	
Station and an and an	Tolerance Limit (±)	10%	

Remark: "Displayed Reading" presents the figures shown on item under calibration/checking regardless of equipment precision or significant figures.



EQUIPMENT PERFORMANCE CHECK / CALIBRATION REPORT

Report No.	: HK1610344
Project Name	: EQUIPMENT PERFORMANCE CHECK/CALIBRATION REPORT
Date of Issue	: 11/7/16
Customer	: LAM GEOTECHNICS LIMITED
Address	: 11/F., CENTRE POINT, 181-185 GLOUCESTER ROAD, WAN CHAI, HONG KONG
Calibration Job No.	: HK1610344
Test Item No.	: HK1610344-01
Test Item Details	
Test Item Description	: Multifunctional Meter
Manufacturer	: YSI
Model No.	: Professional Plus
Serial No.	: 14E100105
Performance Method	: Checked according to in-house method CAL005
	(References: Temperature (Section 6 of Intermational Accreditation New Zealand Technical Guide
	No. 3 Second edition March 2008: Working Thermometer Calibration Procedure), pH value
	(APHA 21e 4500H:B), Salinity (Refer to Conductivity APHA 19e 2510B)
	, Dissolved oxygen (APHA 19e 4500-O,C))
Test Item Receipt Date	: 6-Jul-16
Test Item Calibration Date	: 11-Jul-16

Notes: 1. This report shall not be reproduced, except in full, without prior approval from Pilot Testing Limited.

- 2. Results relate to item(s) as received.
- 3. ± indicates the tolerance limit
- 4. N/A = Not applicable
- 5. APHA American Public Health Association, American Water Works Association and Water Environment Federation, Standard Methods for the Examination of Water and Wastewater, APHA-AWWA-WEF. USA
- 6. DO, pH, salinity and temperature performance check was conducted by Pilot Testing Limited.
- Because of high sensitivity and ease of measurement, the conductivity method (according to APHA 19e 2510) is used to determine salinity.

Approved Signatory

Ms. Wong Po Yan, Pauline (Testing Engineer) Issue Date:

11/7/16

Pilot Testing Limited Address: Room B12, Block B, 5/F, Tonic Industrial Centre, 19 Lam Hing Street, Kowloon Bay, Kowloon Tel: (852) 2527 6691 email: test@pilot-testing.com



WORK ORDER:HK1610344DATE OF ISSUE:11/7/16CLIENT:LAM GEOTECHNICS LIMITED

Equipment Type	Multifunctional Meter	
Manufacturer	YSI	
Model No.	Professional Plus	
Serial No.	14E100105	
Date of Calibration	11-Jul-16	
Date of next Calibation	11-Oct-16	

Parameters:

Temperature (Method Ref: Section 6 of Intermational Accreditation New Zealand Technical Guide No.3 Second edition March 2008: Working Thermometer Calibration Procedure)

Reference Reading (°C)	Display Reading (°C)	Deviation (°C)
11.6	11.8	0.2
21.5	21.5	0.0
31.8	31.4	-0.4
T	plerance Limit	±2.0

pH Value (Method Ref: APHA21e, 4500H:B)

Expected Reading (pH unit)	Reference Reading (pH unit)	Display Reading (pH unit)	Deviation (pH unit)
4.0	4.04	3.99	-0.05
7.0	7.04	7.11	0.07
10.0	9.98	10.06	0.08
	Tolerance Limit		±0.20

Conductivity (Method Ref: APHA 19e, 2510)

KCI concentration (mol/L)	Reference Reading (ms/cm)	Display Reading (ms/cm)	Deviation (%)
0.0000	0.00	0.00	
0.1000	12.76	12.69	-0.55
0.2000	24.40	24.30	-0.41
0.5000	56.20	55.80	-0.71
	Tolerance Limit		±2.0

Dissolved Oxygen (DO) (Method Ref: APHA 19e, 4500-O, C)

Reference DO reading (mg/L)	DO reading od DO probe (mg/L)	Deviation (mg/L)
7.20	7.17	-0.03
5.10	4.94	-0.16
4.00	3.92	-0.08
	Tolerance Limit	±0.20

Remarks:

(1) Maxium tolerance and calibration frequency stated in the report, unless otherewise stated, the internal acceptance criteria of Pilot Testing Limited will be followed.

- (2) Displayed reading presents the figures shown on item under calibration/checking regardless of equipment precision or significant figures.
- (3) Because of high sensitivity and ease of measurement, the conductivity method (accoridng to APHA 19e 2510) is used to determine salinity.
- (4) Due to the malfuction of pH sensor, there is no reading shown on the multimeter's screen. pH parameter is failed to comply with the tolerence.

- End of Report -



EQUIPMENT PERFORMANCE CHECK / CALIBRATION REPORT

Report No.	: HK1610365
Project Name	EQUIPMENT PERFORMANCE CHECK/CALIBRATION REPORT
Date of Issue	: 19/07/2016
Customer	: LAM GEOTECHNICS LIMITED
Address	: 11/F., CENTRE POINT, 181-185 GLOUCESTER ROAD, WAN CHAI, HONG KONG
Calibration Job No.	: HK1610365
Test Item No.	: HK1610365-01
Test Item Details	
Test Item Description	: Multifunctional Meter
Manufacturer	: YSI
Model No.	Professional Plus
Serial No.	: 14M100277
Performance Method	Checked according to in-house method CAL005
	(References: Temperature (Section 6 of Intermational Accreditation New Zealand Technical Guide
	No. 3 Second edition March 2008: Working Thermometer Calibration Procedure), pH value
	(APHA 21e 4500H:B), Salinity (Refer to Conductivity APHA 19e 2510B)
	Dissolved oxygen (APHA 19e 4500-O,C))
Test Item Receipt Date	: 19-Jul-16
Test Item Calibration Date	: 19-Jul-16

Notes: 1. This report shall not be reproduced, except in full, without prior approval from Pilot Testing Limited.

- 2. Results relate to item(s) as received.
- 3. ± indicates the tolerance limit
- 4. N/A = Not applicable
- 5. APHA American Public Health Association, American Water Works Association and Water Environment Federation, Standard Methods for the Examination of Water and Wastewater, APHA-AWWA-WEF. USA
- 6. DO, pH, salinity and temperature performance check was conducted by Pilot Testing Limited.
- 7. Because of high sensitivity and ease of measurement, the conductivity method (according to APHA 19e 2510) is used to determine salinity.

Approved Signatory

Ms. Wong Po Yan, Pauline (Testing Engineer)

Issue Date:

19/07/2016

WORK ORDER:	HK1610365
DATE OF ISSUE:	19/07/2016
CLIENT:	LAM GEOTECHNICS LIMITED

Equipment Type	Multifunctional Meter	
Manufacturer	YSI	
Model No.	Professional Plus	
Serial No.	14M100277	
Date of Calibration	19-Jul-16	
Date of next Calibation	19-Oct-16	

Parameters:

Temperature (Method Ref: Section 6 of Intermational Accreditation New Zealand Technical Guide No.3 Second edition March 2008: Working Thermometer Calibration Procedure)

Reference Reading (°C)	Display Reading (°C)	Deviation (°C)
10.9	10.8	-0.1
20.8	20.7	-0.1
29.5	29.3	-0.2
	Folerance Limit	±2.0

pH Value (Method Ref: APHA21e, 4500H:B)

Expected Reading (pH unit)	Reference Reading (pH unit)	Display Reading (pH unit)	Deviation (pH unit)
4.0	4.23	4.22	-0.01
7.0	7.03	6.91	-0.12 -0.11
10.0	10.04	9.93	
	Tolerance Limit		±0.20

Conductivity (Method Ref: APHA 19e, 2510)

KCI concentration (mol/L)	Reference Reading (ms/cm)	Display Reading (ms/cm)	Deviation (%)
0.0000	0.00	0.00	
0.1000	12.60	12.63	0.24 0.41
0.2000	24.30	24.40	
0.5000	57.80	57.70	-0.17
	Tolerance Limit		±2.0

Dissolved Oxygen (DO) (Method Ref: APHA 19e, 4500-O, C)

Reference DO reading (mg/L)	DO reading od DO probe (mg/L)	Deviation (mg/L)	
8.23	8.34	0.11	-
6.00	5.93	-0.07	
4.60	4.47	-0.13	
	Tolerance Limit	±0.20	

Remarks:

: (1) Maxium tolerance and calibration frequency stated in the report, unless otherewise stated, the internal acceptance criteria of Pilot Testing Limited will be followed.

(2) Displayed reading presents the figures shown on item under calibration/checking regardless
of equipment precision or significant figures.

(3) Because of high sensitivity and ease of measurement, the conductivity method (according to APHA 19e 2510) is used to determine salinity.

(4) Due to the malfuction of pH sensor, there is no reading shown on the multimeter's screen. pH parameter is failed to comply with the tolerence.

- End of Report -



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

ORIFICE TRANSFER STANDARD CERTIFICATION WORKSHEET TE-5025A

	ay 20, 2010 Tisch	6 Rootsmeter Orifice I.I		438320 3166	Ta (K) - Pa (mm) -	293 - 748.03
PLATE OR Run #	VOLUME START (m3)	VOLUME STOP (m3)	DIFF VOLUME (m3)	DIFF TIME (min)	METER DIFF Hg (mm)	ORFICE DIFF H2O (in.)
1	NA	NA	1.00	1.4270	3.2	2.00
2	NA	NA	1.00	1.0220	6.4	4.00
3	NA	NA	1.00	0.9100	7.9	5.00
4	NA	NA	1.00	0.8730	8.8	5.50
5	NA	NA	1.00	0.7180	12.7	8.00

DATA TABULATION

Vstd	(x axis) Qstd	(y axis)	Va	(x axis) Qa	(y axis)
0.9967 0.9925 0.9904 0.9892 0.9840	0.6985 0.9711 1.0883 1.1332 1.3705	1.4150 2.0010 2.2372 2.3464 2.8299	0.9957 0.9915 0.9893 0.9882 0.9830	0.6977 0.9701 1.0872 1.1320 1.3691	0.8851 1.2517 1.3995 1.4678 1.7702
Qstd slop intercept coefficie v axis =	t (b) = ent (r) =	2.10714 -0.05158 0.99978 	Qa slop intercep coeffici	t (b) =	1.31946 -0.03226 0.99978

CALCULATIONS

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

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

For subsequent flow rate calculations:

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



Location	á.	CMA1b	Calbration Date	:	13-Jul-16
Equipment no.	+	HVS001	Calbration Due Date	:	13-Sep-16

CALIBRATION OF CONTINUOUS FLOW RECORDER

		Ambient C	Condition		
Temperature, T _a	302	Kelvin	Pressure, P _a	1005	mmHg
	Orifi	ce Transfer Sta	ndard Information		
Equipment No.	Ori002	Slope, m _c	2.10714	Intercept, bc	-0.05158
Last Calibration Date	20-May-16		(HxPa	/1013.3 x 298 / T _a)	1/2
Next Calibration Date	20-May-17	1	=	$m_c \times Q_{std} + b_c$	
		Calibratio	n of TSP		
Calibration	Manometer Reading	Q	std (Continuous Flow	IC

Point		inches of (down)		G _{std} (m ³ / min.) X-axis	Recorder, W (CFM)	IC (W(P _e /1013.3x298/T _e) ¹² /35.31) Y-axis
1	5.6	5.6	11.2	1.5957	54	53.4211
2	4.4	4.4	8.8	1.4172	48	47.4854
3	3.6	3.6	7.2	1.2842	42	41.5497
4	2.5	2.5	5.0	1.0743	34	33.6355
5	1.6	1.6	3.2	0.8643	28	27.6998
By Linear Regression of Y Correlation	r on X Slope, m Coefficient*	-	36.00		Intercept, b =	-4.1452
Calibratio	on Accepted		Yes/N	θ**		

* if Correlation Coefficient < 0.990, check and recalibration again.

** Delete as appropriate.

As per client's provided information, the equipment reference no. of the calibrated High Volume Sampler has been Remarks :

Calibrated by	11	Kit Au	Checked by	1	Pauline Wong
		13-Jul-16	Date		13-Jul-16



Location	÷	CMA1b	Calbration Date	Ť.	12-Sep-16
Equipment no.	11	HVS001	Calbration Due Date	:	13-Nov-16

CALIBRATION OF CONTINUOUS FLOW RECORDER

				Ambient Co	ondition				
Temperature, T _a		30	2	Kelvin	Pressure, P _a		1010 mmHg		
			Orifice	Transfer Stan	idard Informatio	n			
Equipment No.		Ori002	B.	Slope, m _c	2.10714	Intercept, bo	c -0.05158		
Last Calibration Date		20-May-	16		(H x P _a / 1013.3 x 298 / T _a) ^{1/2}				
Next Calibration Date		20-May-	17		=	$m_c \times Q_{std} + b_c$			
				Calibration	of TSP				
Calibration	Mar	nometer R	eading	Q,	std	Continuous Flow	IC		
Point	н (inches of	water)	(m ³ / r	min.)	Recorder, W	(W(P _a /1013.3x298/T _a) ^{1/2} /35.31)		
A	(up)	(down)	(difference)	X-ax	kis	(CFM)	Y-axis		
1	1.2	1.2	2.4	0.75	536	12	11.9008		
2	2.2	2.2	4.4	1.01	17	20	19.8347		
3	3.5	3.5	7.0	1.26	97	26	25.7852		
4	4.5	4.5	9.0	1.43	64	30	29.7521		
5	5.5	5.5	11.0	1.58	55	34	33.7190		
By Linear Regression of Y o	n X								
	Slope, m	=	25.7	7206	Interce	ept, b =	6.9594		
Correlation C	oefficient*	=	0.9	984					
Calibration	Accepted	-	Yes	/No**					
Calibration	Accepted	-	Yes	/No**					

* if Correlation Coefficient < 0.990, check and recalibration again.

** Delete as appropriate.

Remarks : As per client's provided information, the equipment reference no. of the calibrated High Volume Sampler has been

			pdate in quality management system.		
Calibrated by	:	Jackey MA	Checked by	:	Pauline Wong
Date		12-Sep-16	Date		12-Sep-16



Location	4	CMA2a	Calbration Date	1	13-Jul-16
Equipment no.	+	HVS002	Calbration Due Date	: _	13-Sep-16

CALIBRATION OF CONTINUOUS FLOW RECORDER

				Ambient C	ondition			
Temperature, T _a		302	2	Kelvin	Pressure, P	a	1005	mmHg
			Orifice	Transfer Sta	ndard Inform	nation		
Equipment No.		Ori002		Slope, m _c	2.107	14 Intercept	t, bc	-0.05158
Last Calibration Date		20-May-1	16		(H	1 x P _a / 1013.3 x 29	98/T _a) ¹	1/2
Next Calibration Date		20-May-1	17		-	m _c x Q _{std} +	bc	
				Calibratio	n of TSP			
Calibration	Ma	nometer R	eading	Q	std	Continuous Flow		IC
Point	н	(inches of v	water)	(m ³ /	/ min.)	Recorder, W	(W(F	P_/1013.3x298/T_/) ^{1/2} /35.31)
	(up)	(down)	(difference)	X-:	axis	(CFM)		Y-axis
1	6.8	6.8	13.6	1.7	559	58		57.3782
2	5.5	5.5	11.0	1.5	58,16	52		51.4425
3	4.2	4.2	8.4	1.3	3852	46		45.5068

By Line

4

5	1.6	1.6	3.2	0.8643		30	29.6784
ear Regression c	of Y on X	1					
	Slope, m	=	31.2362		Intercept, b =	2.1999	
Correlati	on Coefficient*	=	0.9991		1.1.1.1		
Calibra	ation Accepted	101	Yes/No**				

1.1552

38

37.5926

* if Correlation Coefficient < 0.990, check and recalibration again.

2.9

2.9

5.8

** Delete as appropriate.

As per client's provided information, the equipment reference no. of the calibrated High Volume Sampler has been Remarks :

Calibrated by	:	Kit Au	Checked by	4	Pualine Wong
		13-Jul-16	Date		13-Jul-16



Location

Equipment no.

:	CMA2a	Calbration Date	;	12-Sep-16
:	HVS002	Calbration Due Date		13-Nov-16

CALIBRATION OF CONTINUOUS FLOW RECORDER

	_	-		Ambient Co	ndition			
Temperature, T _a		302	2	Kelvin I	Pressure, P _a		1010	mmHg
		~	Orifice	Transfer Stan	dard Information			
Equipment No.		Ori002		Slope, m _c	2.10714	Intercept, be	:	-0.05158
Last Calibration Date		20-May-1	6		(HxPa	/ 1013.3 x 298	(T _a) 1/2	
Next Calibration Date		20-May-1	7	$= m_c \times Q_{std} + b_c$				
				Calibration	of TSP			
Calibration	Ma	nometer R	eading	Q,	d C	ontinuous Flow		IC
Point	н	(inches of	water)	(m ³ / r	nin.)	Recorder, W	(W(P_/101:	3.3x298/T _a) ^{1/2} /35.31
	(up)	(down)	(difference)	X-ax	is	(CFM)		Y-axis
1	1.4	1.4	2.8	0.81	20	28		27.7686
2	2.3	2.3	4.6	1.03	39	34	-	33.7190
3	4.3	4.3	8.6	1.40	47	44		43.6364
4	4.9	4.9	9.8	1.49	79	48		47.6034
5	6.0	6.0	12.0	1.65	49	56		55.5372
By Linear Regression of Y o	n X							
	Slope, m		31.4	606	Intercept,	b = 1	.3620	
Correlation Co	pefficient*	=	0.9	900				
Calibration	Accepted	. e.	Yes/	No**				

* if Correlation Coefficient < 0.990, check and recalibration again.

** Delete as appropriate.

Remarks : As per client's provided information, the equipment reference no. of the calibrated High Volume Sampler has been

			pdate in quality management system.		
Calibrated by	4	Jackey MA	Checked by	9	Pualine Wong
Date		12-Sep-16	Date		12-Sep-16



Location	
Equipment	no.

CMA3a HVS012

Calbration Due Date :

Calbration Date

13-Sep-16

13-Jul-16

CALIBRATION OF CONTINUOUS FLOW RECORDER

				Ambient Cond	ition			
Temperature, T _a	302 Kelvin Pressure, P _a						1005	mmHg
			Orifice T	ransfer Standa	d Information			
Equipment No.	4	Ori002	1	Slope, m _c 2.10714			c	-0.05158
Last Calibration Date		20-May-	16		1013.3 x 298	/Ta) 1/2		
Next Calibration Date	Ç	20-May-1	17	$= m_c \times Q_{std} + b_c$				
		1		Calibration of	TSP			
Calibration	Manometer Reading		Q std	Co	ontinuous Flow		IC	
Point	H (inches of water)		(m ³ / mi	in.) Recorder, W		(W(P _p /1013.	3x298/T _a) ^{1/2} /35.31	
	(up)	(down)	(difference)	X-axis		(CFM)		r-axis
1	5.4	5.4	10.8	1.5674		52	5	1.4425
2	4.4	4.4	8.8	1.4172		48	4	7.4854
3	3.4	3.4	6.8	1.2488		42	4	1.5497
4	2.4	2.4	4.8	1.0531		38	3	7.5926
5	1.4	1.4	2.8	0.8101		30	2	9.6784
By Linear Regression of Y	on X							
	Slope, m	=	28.4	435	Intercept,	b =	6.8685	
Correlation Co	efficient*	=	0.99	075				
Calibration	Accepted	=	Yes/	No**				

* if Correlation Coefficient < 0.990, check and recalibration again.

** Delete as appropriate.

Remarks : As per client's provided information, the equipment reference no. of the calibrated High Volume Sampler has been

re-as	signed from	n EL333 to HVS012 with respect to th	e update in quality management system.		
Calibrated by	:	Kit Au	Checked by	t.	Pauline Wong
Date	:	13-Jul-16	Date	1	13-Jul-16



Location	:	CMA3a	Calbration Date	:	12-Sep-16
Equipment no.	;	HVS012	Calbration Due Date	:	13-Nov-16

CALIBRATION OF CONTINUOUS FLOW RECORDER

		Ambient C	ondition			
Temperature, T _a	302	Kelvin	Pressure, P _a		1010	mmHg
	Orifice T	ransfer Star	ndard Information	1		
Equipment No.	Ori002	Slope, m _c	2.10714	Intercept, b	oc .	-0.05158
Last Calibration Date	20-May-16	175.0	(HxPa	/ 1013.3 x 298	/T _a) ^{1/2}	1.0
Next Calibration Date	20-May-17		=	$m_c \times Q_{std} + b_c$		
		Calibration	of TSP			
Calibration	Manometer Reading	G	l std	Continuous Flow		IC
Point	H (inches of water)	(m ³	/ min.)	Recorder, W	(W(P_/1013.:	3x298/T _a) ^{1/2} /35.31
	(up) (down) (difference)	X-	axis	(CFM)	Y	-axis

	(up)	(down)	(difference)	X-axis	(CFM)	Y-axis
1	1.2	1.2	2.4	0.7536	24	23.8017
2	1.8	1.8	3.6	0.9175	32	31.7356
3	3.2	3.2	6.4	1.2152	40	39.6695
4	4.2	4.2	8.4	1.3886	45	44.6281
5	5.4	5.4	10.8	1.5712	50	49.5868
inear Regression o	f Y on X		1			-
	Slope, m	=	30.5105		Intercept, b =	2.2112
Correlation	Slope, m Coefficient*	=	30.5105		Intercept, b =	2.2112

* if Correlation Coefficient < 0.990, check and recalibration again.

** Delete as appropriate.

Remarks :	As per client's provided information, the equipment reference no. of the calibrated High Volume Sampler has been
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Calibrated by	:	Jackey MA	Checked by		Pauline Wong
Date		12-Sep-16	Date	1	12-Sep-16



Location		CMA4a	Calbration Date	:	13-Jul-16
Equipment no.	:	HVS004	Calbration Due Date	;	13-Sep-16

CALIBRATION OF CONTINUOUS FLOW RECORDER

				Ambient (Condition		
Temperature, T _a		302		Kelvin	Pressure, P _a		1005 mmHg
			Orifice	Transfer Sta	Indard Information		
Equipment No.	Ori002			Slope, m _c	2.10714	Intercept, bo	-0.05158
Last Calibration Date		20-May-1	6		(HxP	/ 1013.3 x 298 /	(T _a) ^{1/2}
Next Calibration Date		20-May-1	7	$= m_c \times Q_{std} + k$			
				Calibratio	n of TSP		
Calibration Manometer Reading		Q _{std}		Continuous Flow	IC		
Point	Н (H (inches of water)		(m ³ /	min.)	Recorder, W	(W(P _a /1013.3x298/T _a) ^{1/2} /35.31
20-11	(up)	(down)	(difference)	X-a	xis	(CFM)	Y-axis
1	5.5	5.5	11.0	1.5	316	52	51.4425
2	4.4	4.4	8.8	1.4	172	48	47.4854
3	3.4	3.4	6.8	1.24	488	40	39.5711
4	2.1	2.1	4.2	0.98	366	32	31.6569
5	1.5	1.5	3.0	0.8	377	24	23.7427
By Linear Regression of Y	on X						
	Slope, m	=	37.0	0124	Intercept	t, b = -{	6.1671
Correlation Co	pefficient*	=	0.9	947			
Calibration	Accepted	÷	Yes	/No**			

* if Correlation Coefficient < 0.990, check and recalibration again.

** Delete as appropriate.

Deservice	As per client's provided information,	the equipment reference no. of	the calibrated High	Volume Sampler has been
Remarks :				

re-as	signed from	EL390 to HVS004 with respect to the	e update in quality management system.	-	
Calibrated by	:	Kit Au	Checked by	:	Pauline Wong
Date	:	13-Jul-16	Date	:	13-Jul-16



Location	4	CMA4a	Calbration Date	*	12-Sep-16
Equipment no.	1	HVS004	Calbration Due Date	•	13-Nov-16

CALIBRATION OF CONTINUOUS FLOW RECORDER

		Ambient C	Condition		
Temperature, T _a	302	Kelvin	Pressure, P _a	1010	mmHg
	Orifi	ice Transfer Sta	Indard Information		
Equipment No.	Ori002	Slope, m _c	2.10714	Intercept, bc	-0.05158
Last Calibration Date	20-May-16		(HxPa)	/1013.3 x 298 / T _a)	1/2
Next Calibration Date	20-May-17		= n	$n_c \times Q_{std} + b_c$	
		Calibratio	n of TSP		
Calibration	Manometer Reading	Q	std Co	ontinuous Flow	IC

Calibration Point			eading water)	Q _{std} (m ³ / min.)	Continuous Flow Recorder, W	IC (W(P _p /1013.3x298/T _p) ^{1/2} /35.31)
	(up)	(down)	(difference)	X-axis	(CFM)	Y-axis
1	1.4	1.4	2.8	0.8120	22	21.8182
2	2.2	2.2	4.4	1.0117	32	31.7356
3	3.4	3.4	6.8	1.2518	44	43.6364
4	4.4	4.4	8.8	1.4207	48	47.6034
5	5.5	5.5	11.0	1.5855	56	55.5372
By Linear Regression of			10 70	-		
	Slope, m	=	42.79		Intercept, b =	-11.9911
Correlation	Coefficient*	=	0.995	2		
Calibratio	on Accepted	5	Yes/Ne	9**		

* if Correlation Coefficient < 0.990, check and recalibration again.

** Delete as appropriate.

re-as	signed from	n EL390 to HVS004 with respect to the	update in quality management system.		
Calibrated by	÷.	Jackey MA	Checked by	;	Pauline Wong
Date	:	12-Sep-16	Date	+	12-Sep-16



Location Equipment no. CMA5b HVS010

Calbration Date	
Calbration Due Date	

13-Jul-16 13-Sep-16

CALIBRATION OF CONTINUOUS FLOW RECORDER

				Ambient C				
Temperature, T _a	perature, T _a 302			Kelvin	Pressure, P _a		1005	mmHg
		2	Orifice	Transfer Sta	ndard Informatio	n		
Equipment No.		Ori002			2.10714	Intercept, bo		-0.05158
Last Calibration Date		20-May-1	16		(Hx)	P _a / 1013.3 x 298	/T _a) ^{1/2}	
Next Calibration Date	alibration Date 20-May-17				=	$m_c x Q_{std} + b_c$		
			-	Calibratio	n of TSP			
Calibration	Manometer Reading			Q	std	Continuous Flow		IC
Point	H (inches of water)			(m ³)	min.)	Recorder, W		013.3x298/T _a) ^{1/2} /35.3
1 onit	in (mones of water)			(in)	mm.)		(00(1-0))	13.3X290/1 _a) /30.3
	(up)	(down)	(difference)	Х-а	axis	(CFM)		Y-axis
1	5.5	5.5	11.0	1.5	816	58		57.3782
2	4.3	4.3	8.6	1.4	013	53	1	52.4318
3	3.4	3.4	6.8	1.2	488	48		47.4854
4	2.2	2.2	4.4	1.0	093	41		40.5604
5	1.4	1.4	2.8	0.8	101	34	1	33.6355

Correlation Coefficient*

Calibration Accepted

* if Correlation Coefficient < 0.990, check and recalibration again.

Slope, m

** Delete as appropriate.

 Remarks :
 As per client's provided information, the equipment reference no. of the calibrated High Volume Sampler has been

 re-assigned from EL222 to HVS010 with respect to the update in quality management system.

30.6917

0.9993

Yes/No**

Calibrated by Date Kit Au 13-Jul-16 Checked by Date

Intercept, b

9.1551

Pauline Wong 13-Jul-16



Location Equipment no. CMA5b HVS010

Calbration Date	
Calbration Due Date	

CALIBRATION OF CONTINUOUS FLOW RECORDER

				Ambient Con	dition		
Femperature, T _a		302	2	Kelvin Pr	essure, P _a		1010 mmHg
			Orifice	Transfer Standa	ard Information		
Equipment No.	-	Ori002		Slope, m _c	2.10714	Intercept, bo	
Last Calibration Date		20-May-1	6		$(H \times P_a)$	/ 1013.3 x 298 /	'T _a) ^{1/2}
Next Calibration Date		20-May-1	7		=	$m_c \times Q_{std} + b_c$	
				Calibration of	FTSP		
Calibration Manometer Reading				Q std	0	Continuous Flow	IC
Point	H (inches of water)			(m ³ / mi	n)	Recorder, W	(W(P_/1013.3x298/T_) ^{1/2} /35.31
				A 100 To 5. Th	- III III		
	(up)	(down)	(difference)	X-axis	5	(CFM)	Y-axis
1	1.4	1.4	2.8	0.8120)	34	33.7190
2	2.2	2.2	4.4	1.0117	7	42	41.6529
3	3.4	3.4	6.8	1.2518	3	50	49.5868
4	4.4	4.4	8.8	1.4207	7	56	55.5372
5	5.6	5.6	11.2	1.5996	3	61	60.4959
By Linear Regression of Y c	n X						
	Slope, m	-	34.0	0485	Intercept,	b = 6	6.6876
Correlation C	oefficient*	ė,	0.9	985			
Calibration	Accepted	i ce	Yes	/No**			

* if Correlation Coefficient < 0.990, check and recalibration again.

** Delete as appropriate.

Remarks : As per client's provided information, the equipment reference no. of the calibrated High Volume Sampler has been re-assigned from EL222 to HVS010 with respect to the update in quality management system.

Calibrated by Date Jackey MA 12-Sep-16 Checked by Date Pauline Wong 12-Sep-16



Location Equipment no.

CMA6a HVS013

Calbration	Date
Calbration	Due Date

13-Jul-16 13-Sep-16

CALIBRATION OF CONTINUOUS FLOW RECORDER

	302		Kelvin Pressure, P _a 1005 mm				
		Orifice T	ransfer Standard Info	rmation			
	Ori002		Slope, m _c 2.10	0714 Intercept, I	oc -0.05158		
20-May-16			(H x P _a / 1013.3 x 298	/T _a) ^{1/2}		
20-May-17				$= m_c \times Q_{std} + b_c$	2		
		-	Calibration of TSP				
Manometer Reading		Q _{std}	Continuous Flow	IC			
H (inches of water)			(m ³ / min.)	Recorder, W	(W(P _a /1013.3x298/T _a) ^{1/2} /35.3		
(up)	(down)	(difference)	X-axis	(CFM)	Y-axis		
5.8	5.8	11.6	1.6235	60	59.3567		
4.8	4.8	9.6	1.4791	52	51.4425		
3.8	.8 3.8 7.6		1.3188	48	47.4854		
2.4	2.4 2.4 4.8		1.0531	40	39.5711		
1.4	1.4	2.8	0.8101	32	31.6569		
	H (up) 5.8 4.8 3.8 2.4	Ori002 20-May-1 20-May-1 20-May-1 1 20-May-1 1 <td>Ori002 20-May-16 20-May-17 20-May-17 Manometer Reading H (inches of water) (up) (down) 5.8 5.8 5.8 5.8 5.8 9.6 3.8 3.8 2.4 2.4</td> <td>Orifice Transfer Standard Info Ori002 Slope, mc 2.10 20-May-16 (20-May-17 (Z0-May-17 Calibration of TSP Manometer Reading Q atd H (inches of water) (m³ / min.) (up) (down) (difference) X-axis 5.8 5.8 11.6 1.6235 4.8 4.8 9.6 1.4791 3.8 3.8 7.6 1.3188 2.4 2.4 4.8 1.0531</td> <td>Orifice Transfer Standard Information Ori002 Slope, m_c 2.10714 Intercept, the standard information 20-May-16 ($H \times P_a$ / 1013.3 x 298 ($H \times P_a$ / 1013.3 x 298 $= m_c \times Q_{std} + b_d$ 20-May-17 = $m_c \times Q_{std} + b_d$ $= m_c \times Q_{std} + b_d$ $= m_c \times Q_{std} + b_d$ Manometer Reading Q_{std} Continuous Flow H (inches of water) ($m^3 / min.$) Recorder, W (CFM) 5.8 5.8 11.6 1.6235 60 4.8 4.8 9.6 1.4791 52 3.8 3.8 7.6 1.3188 48 2.4 2.4 4.8 1.0531 40</td>	Ori002 20-May-16 20-May-17 20-May-17 Manometer Reading H (inches of water) (up) (down) 5.8 5.8 5.8 5.8 5.8 9.6 3.8 3.8 2.4 2.4	Orifice Transfer Standard Info Ori002 Slope, mc 2.10 20-May-16 (20-May-17 (Z0-May-17 Calibration of TSP Manometer Reading Q atd H (inches of water) (m³ / min.) (up) (down) (difference) X-axis 5.8 5.8 11.6 1.6235 4.8 4.8 9.6 1.4791 3.8 3.8 7.6 1.3188 2.4 2.4 4.8 1.0531	Orifice Transfer Standard Information Ori002 Slope, m_c 2.10714 Intercept, the standard information 20-May-16 ($H \times P_a$ / 1013.3 x 298 ($H \times P_a$ / 1013.3 x 298 $= m_c \times Q_{std} + b_d$ 20-May-17 = $m_c \times Q_{std} + b_d$ $= m_c \times Q_{std} + b_d$ $= m_c \times Q_{std} + b_d$ Manometer Reading Q_{std} Continuous Flow H (inches of water) ($m^3 / min.$) Recorder, W (CFM) 5.8 5.8 11.6 1.6235 60 4.8 4.8 9.6 1.4791 52 3.8 3.8 7.6 1.3188 48 2.4 2.4 4.8 1.0531 40		

Correlation Coefficient*

Calibration Accepted

:

** Delete as appropriate.

Calibrated by

Date

* if Correlation Coefficient < 0.990, check and recalibration again.

Kit Au

13-Jul-16

0.9939 Yes/No**

Remarks : As per client's provided information, the equipment reference no. of the calibrated High Volume Sampler has been

re-assigned from EL551 to HVS013 with respect to the update in quality management system

Date

Checked by

Pauline Wong 13-Jul-16

\$



Location Equipment no. CMA6a HVS013

Calbration	Date
Calbration	Due Date

12-Sep-16 13-Nov-16

CALIBRATION OF CONTINUOUS FLOW RECORDER

				Ambient Con			
emperature, T _a		302	2	Kelvin Pre	essure, P _a		1010 mmHg
			Orifice 1	Fransfer Standa	ard Information		
Equipment No.		Ori002		Slope, m _c	2.10714	Intercept, bo	-0.05158
Last Calibration Date		20-May-1	16		(HxPa	/ 1013.3 x 298 /	(T _a) ^{1/2}
Next Calibration Date	_	20-May-1	17]	= r	$m_c \times Q_{std} + b_c$	
				Calibration o	f TSP		
Calibration	Calibration Manometer Reading		Q std	C	ontinuous Flow	IC	
Point	H (inches of water)			(m ³ / mi		Recorder, W	(W(P_/1013.3x298/T_) ^{1/2} /35.31
				(11 / 11)11.)		Recorder, W	
	(up)	(down)	(difference)	X-axi	S	(CFM)	Y-axis
1	1.5	1.5	3.0	0.839	7	31	30.7438
2	2.4	2.4	4.8	1.055	6	39	38.6777
3	3.7	3.7	7.4	1.304	8	48	47.6034
4	4.7	4.7	9.4	1.467	5	53	52.5620
5	5.8	5.8	11.6	1.627	5	60	59.5042
By Linear Regression of Y or	۲X						
	Slope, m	L E	35.8	920	Intercept, t	o = 0	0.6298
Correlation C	oefficient*	=	0.99	992			
Calibration	Accepted	-	Yes/	No**			
Gunorduori							

* if Correlation Coefficient < 0.990, check and recalibration again.

:

** Delete as appropriate.

Remarks : As per client's provided information, the equipment reference no. of the calibrated High Volume Sampler has been re-assigned from EL551 to HVS013 with respect to the update in quality management system.

Calibrated by Date Jackey MA 12-Sep-16 Checked by Date Pauline Wong 12-Sep-16

:



Appendix 5.1

Monitoring Schedules for Reporting Month and Coming Reporting Month

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

September 2016

Sunday	T	Monday		Tuesday	Wednesda	v	Thursday		Friday		Saturday	
28-/	Aug		29-Aug	30-Aug		31-Aug		1-Sep		2-Sep		3-Sep
							24hr TSP		1hr TSP			
				Noise (daytime)								
				(M1a, M2b, M3a, M4b, M5b, M6)								
		pact WQM			Impact WQM				Impact WQM			
		d-ebb	10:21		Mid-ebb	11:48			Mid-ebb	13:03		
		d-flood	17:23		Mid-flood	18:32			Mid-flood	19:25		
4-9	Sep	4-11004	5-Sep	6-Sep	Mid-fibbd	7-Sep		8-Sep	Mid-100d	9-Sep		10-Sep
	oop		0.000	0.000				0.000		0.000		10 000
					24hr TSP		1hr TSP					
				Noise (daytime)								
				(M1a, M2b, M3a, M4b, M5b, M6)								
	Imp	pact WQM			Impact WQM				Impact WQM			
	Mic	d-flood	8:28		Mid-flood	9:53			Mid-ebb	5:13		
		d-ebb	14:42		Mid-ebb	15:52			Mid-flood	23:04		
11-	Sep		12-Sep	13-Sep		14-Sep		15-Sep		16-Sep		17-Sep
				24hr TSP	1hr TSP						24hr TSP	
		oise (daytime)		Noise (daytime)								
	(M	11a)		(M2b, M3a, M4b, M5b, M6)								
		pact WQM			Impact WQM						Impact WQM	44.00
		d-ebb	9:00		Mid-ebb	10:22					Mid-ebb Mid-flood	11:06 17:59
18-		d-flood	16:43 19-Sep	20-Sep	Mid-flood	17:34 21-Sep		22-Sep		23-Sep	Wild-1100d	24-Sep
10-	ocp		13-06p	20-060		21-060		22-00p		20-00p		24-060
				24hr TSP								
				(CMA5b)								
	24	hr TSP		1hr TSP							24hr TSP	
											2	
	No	oise (daytime)		Noise (daytime)	Noise (daytime)							
		l2b)			(M3a, M4b)							
	(,	. , ,							
	Imp	pact WQM			Impact WQM				Impact WQM			
		d-flood	7:52		Mid-flood	9:39			Mid-ebb	5:21		
		d-ebb	14:01		Mid-ebb	15:33			Mid-flood	12:13		
25-			26-Sep									
	1h	Ir TSP										
	Imp	pact WQM										
		d-ebb	9:07									
		d-flood	16:18									
			0									

Contract No. HK/2015/01 Wan Chai Development Phase II and Central-Wan Chai Bypass Sampling, Field Measurement and Testing Works (Stage 3) Tentative Environmental Monitoring Schedule October 2016

Sunday	Monday	Tuesday		Wednesda	v	Thursday		Friday		Saturday	
			27-Sep		28-Sep	2	9-Sep		30-Sep		1-Oct
						24hr TSP		1hr TSP			
		Noise (daytime)									
		(dujumo)									
	Imment WOM										
	Impact WQM Mid-ebb 9:07	7		Impact WQM	10:45			Impact WQM Mid-ebb	10.00		
	Mid-ebb 9:07 Mid-flood 16:18			Mid-ebb Mid-flood	10:45			Mid-flood	12:03 18:16		
2-Oct			4-Oct	IVIId-1100d	5-Oct		6-Oct	Mid-1100d	7-Oct		8-Oct
2-00	3-00	L	4-00		5-001		0-001		7-001		0-UUI
				AU TOD							
				24hr TSP		1hr TSP					
	Noise (daytime)	Noise (daytime)									
	Impact WQM			Impact WQM						Impact WQM	
				Mid-flood	0.50					Mid-ebb	4:12
					8:56						
	Mid-ebb 13:43			Mid-ebb	14:48					Mid-flood	11:55
9-Oct	10-Oc	t	11-Oct		12-Oct		13-Oct		14-Oct		15-Oct
		24hr TSP		1hr TSP						24hr TSP	
		24111 135		IIII I SF						24111 1 317	
		Noise (daytime)		Noise (daytime)							
										Impact WQM	
		Impact WQM				Impact WQM					
		Mid-ebb	7:58			Mid-ebb	9:47			Mid-ebb	11:26
		Mid-flood	15:45			Mid-flood	16:45			Mid-flood	17:47
16-Oct	17-Oc	t	18-Oct		19-Oct		20-Oct		21-Oct		22-Oct
	41- 700										
	1hr TSP							24hr TSP		1hr TSP	
	Noise (daytime)	Noise (daytime)									
	Impact WQM			Impact WQM				Impact WQM			
					0						
	Mid-ebb 12:58			Mid-flood	8:39			Mid-ebb	3:46		
	Mid-flood 18:58			Mid-ebb	14:29			Mid-flood	10:48		
23-Oct	24-Oc	t	25-Oct		26-Oct						
	Noise (daytime)	Noise (daytime)									
	Impact WQM			Impact WQM				Impact WQM			
	Mid-ebb 7:28	3		Mid-ebb	9:30			Mid-ebb	11:00		
	Mid-flood 14:5	7		Mid-flood	16:13			Mid-flood	17:10		



Appendix 5.2

Noise Monitoring Results and Graphical Presentations

Noise Monitoring Result

Day Time (0700 - 1900hrs on normal weekdays)

Location: M1a - Harbour Road Sports Centre

			Measur	ement Noi	se Level	Baseline Level	Construction Noise Level	Limit Level
Date	Time	Weather	Leq	L10	L90	Leq	Leq	Leq
						Unit: di	3(A), (30-min)	
30/8/2016	10:13	Fine	76.5 77.5 74.5		74.5	72	74	75
6/9/2016	10:35	Fine	76.8 79.0		74.0	72	75	75
12/9/2016	13:49	Fine	75.5 78.0 72.0		72	73	75	
20/9/2016	14:00	Fine	74.7	76.0	72.5	72	71	75

Location: M2b - Noon-day gun area

			Measur	ement Nois	se Level	Baseline Level	Construction Noise Level	Limit Level
Date	Time	Weather	Leq	L10	L90	Leq	Leq	Leq
						Unit: di	B(A), (30-min)	
30/8/2016	10:56	Fine	66.4 68.0 64.5		64.5	68	66	75
6/9/2016	11:18	Fine	67.4 68.5 65.5		68	67	75	
12/9/2016	14:25	Fine	67.0 68.0 65.0		68	67	75	
19/9/2016	09:53	Fine	67.2	68.5	65.0	68	67	75

Location: M3a - Tung Lo Wan Fire Station

			Measur	ement Noi	se Level	Baseline Level	Construction Noise Level	Limit Level
Date	Time	Weather	Leq	L10	L90	Leq	Leq	Leq
						Unit: di	B(A), (30-min)	
30/8/2016	11:30	Fine	65.3	66.5	63.0	69	65	75
6/9/2016	13:00	Fine	66.0	67.0	64.5	69	66	75
13/9/2016	13:00	Fine	65.5	66.0	63.0	69	66	75
21/9/2016	10:25	Fine	66.0	67.5	63.0	69 66		75

Location: M4b - Victoria Centre

			Measur	ement Noi:	se Level	Baseline Noise Level	Construction Noise Level	Limit Level
Date	Time	Weather	Leq	L10	L90	Leq	Leq	Leq
						Unit: dl	B(A), (30min)	
30/8/2016	13:05	Fine	65.5	66.5	63.5	67	66	75
6/9/2016	13:40	Fine	65.4	67.0	63.5	67	65	75
13/9/2016	13:35	Fine	64.1	65.5	63.0	67	64	75
21/9/2016	11:30	Fine	64.4	65.5	62.0	67	64	75

Location: M5b - City Garden

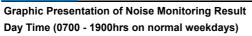
			Measur	ement Noi:	se Level	Baseline Level	Construction Noise Level	Limit Level
Date	Time	Weather	Leq	L10	L90	Leq	Leq	Leq
						Unit: d	B(A), (30min)	
30/8/2016	13:50	Fine	69.4 69.5 6		68.5	68	64	75
6/9/2016	14:20	Fine			67.0	68	70	75
13/9/2016	14:15	Fine	70.1 71.0 68.5		68.5	68	66	75
20/9/2016	14:49	Fine	70.1	71.0	69.0	68	66	75

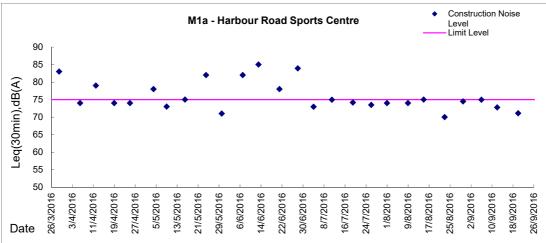
Location: M6 - HK Baptist Church Henrietta Secondary School

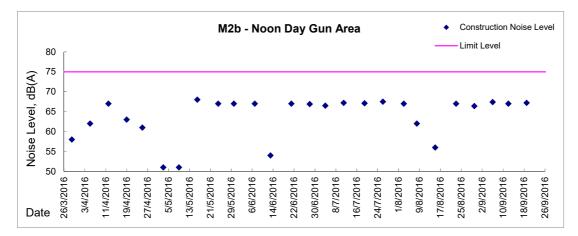
			Measur	ement Noi:	se Level	Baseline Level	Construction Noise Level	Limit Level
Date	Time	Weather	Leq	L10	L90	Leq	Leq	Leq
					Unit: df	B(A), (30-min)		
30/8/2016	14:26	Fine	71.5	71.5 72.0 70.0		71	64	70
6/9/2016	14:57	Fine	68.1	69.0	66.5	71	68	70
13/9/2016	14:55	Fine	71.7	72.5	69.0	71	65	70
20/9/2016	15:29	Fine	71.1	72.0 69.5		71	61	70

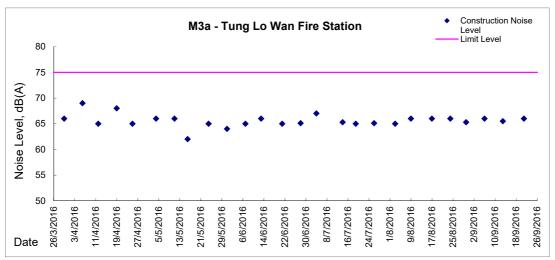






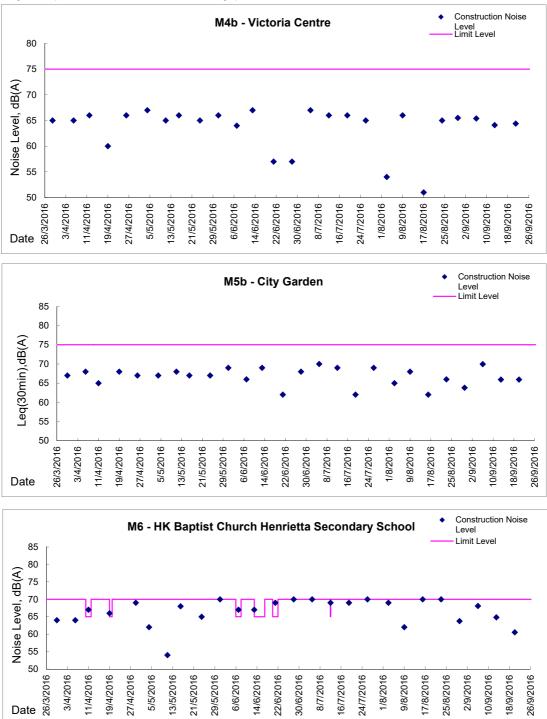








Graphic Presentation of Noise Monitoring Result Day Time (0700 - 1900hrs on normal weekdays)





Appendix 5.3

Air Quality Monitoring Results and Graphical Presentations, and Odour Patrol Results

Location: CMA1b - Oil Street Site Office

Report on 24-hour TSP monitoring

Action Level (μ g/m3) - 176.7 Limit Level (μ g/m3) - 260

Date	Sampling	Weather	Filter paper	Filter Weigh	nt, g	Elapse Tim	e, hr	Sampling	Flo	w Rate, m³/ı	min	Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q _{si}	Final, Q _{sf}	Average	Volume, m ³	μg/m ³
1-Sep-16	8:00	Rainy	17032	2.8312	2.9116	8697.97	8721.97	24.00	1.12	1.12	1.12	1610	49.9
7-Sep-16	8:00	Rainy	16770	2.8039	2.8563	8724.97	8748.97	24.00	1.23	1.23	1.23	1770	29.6
13-Sep-16	8:00	Cloudy	17292	2.6595	2.8578	8751.97	8775.97	24.00	1.68	1.67	1.68	2415	82.1
19-Sep-16	8:00	Cloudy	17280	2.7187	2.9738	8778.97	8802.97	24.00	1.68	1.69	1.68	2422	105.3
24-Sep-16	8:00	Fine	17223	2.7318	3.0122	8806.00	8830.00	24.00	1.68	1.68	1.68	2421	115.8

Report on 1-hour TSP monitoring Action Level (µg/m3) - 320.1 Limit Level (µg/m3) - 500

Date	Sampling	Weather	Filter paper	Filter Weigh	nt, g	Elapse Tim	e, hr	Sampling	Flo	w Rate, m³/ı	min	Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q _{si}	Final, Q _{sf}	Average	Volume, m ³	μ g/m ³
2-Sep-16	8:45	Cloudy	17034	2.8157	2.8194	8721.97	8722.97	1.00	1.28	1.28	1.28	77	48.4
2-Sep-16	10:00	Cloudy	17024	2.8194	2.8229	8722.97	8723.97	1.00	1.28	1.28	1.28	77	45.7
2-Sep-16	13:00	Cloudy	16877	2.6847	2.7090	8723.97	8724.97	1.00	1.28	1.28	1.28	77	317.6
8-Sep-16	9:24	Cloudy	16769	2.8154	2.8173	8748.97	8749.97	1.00	1.12	1.12	1.12	67	28.2
8-Sep-16	10:35	Cloudy	16883	2.6575	2.6607	8749.97	8750.97	1.00	1.12	1.12	1.12	67	47.5
8-Sep-16	13:00	Cloudy	16756	2.8362	2.8378	8750.97	8751.97	1.00	1.12	1.12	1.12	67	23.7
14-Sep-16	9:10	Fine	17299	2.6298	2.6395	8775.97	8776.97	1.00	1.67	1.67	1.67	100	96.6
14-Sep-16	11:00	Fine	17268	2.6473	2.6585	8776.97	8777.97	1.00	1.67	1.67	1.67	100	111.6
14-Sep-16	13:00	Fine	17264	2.6343	2.6488	8777.97	8778.97	1.00	1.67	1.67	1.67	100	144.4
20-Sep-16	9:35	Rainy	17243	2.7176	2.7253	8802.97	8803.97	1.00	1.69	1.69	1.69	101	76.1
20-Sep-16	10:50	Rainy	17237	2.6874	2.6970	8803.97	8804.97	1.00	1.69	1.69	1.69	101	94.9
20-Sep-16	13:00	Rainy	17230	2.7048	2.7173	8804.97	8805.97	1.00	1.69	1.69	1.69	101	123.5
26-Sep-16	8:50	Fine	17218	2.6983	2.7119	8830.00	8831.00	1.00	1.83	1.83	1.83	110	124.2
26-Sep-16	11:00	Fine	16749	2.8118	2.8297	8831.00	8832.00	1.00	1.83	1.83	1.83	110	163.4
26-Sep-16	13:00	Fine	16745	2.8057	2.8330	8832.00	8833.00	1.00	1.83	1.83	1.83	110	249.3

Location: CMA2a - Causeway Bay Community Centre

Report on 24-hour TSP monitoring

Action Level (µg/m3) - 169.5 Limit Level (µg/m3) - 260

Date	Sampling	Weather	Filter paper	Filter Weigh	nt, g	Elapse Tim	e, hr	Sampling	Flo	w Rate, m³/r	min	Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q _{si}	Final, Q _{sf}	Average	Volume, m ³	μg/m ³
1-Sep-16	8:00	Rainy	17033	2.8365	2.8771	18321.69	18345.69	24.00	1.09	1.08	1.09	1563	26.0
7-Sep-16	8:00	Rainy	16884	2.6744	2.6966	18348.69	18372.69	24.00	1.09	1.09	1.09	1572	14.1
13-Sep-16	8:00	Cloudy	17291	2.7125	2.8260	18375.69	18399.69	24.00	1.11	1.10	1.11	1593	71.2
19-Sep-16	8:00	Cloudy	17281	2.6722	2.7598	18402.69	18426.69	24.00	1.11	1.11	1.11	1599	54.8
24-Sep-16	8:00	Fine	17222	2.7109	2.8152	18429.69	18453.69	24.00	1.11	1.11	1.11	1598	65.3

Report on 1-hour TSP monitoring Action Level (µg/m3) - 323.4 Limit Level (µg/m3) - 500

Date	Sampling	Weather	Filter paper	Filter Weigh	nt, g	Elapse Tim	e, hr	Sampling	Flo	w Rate, m³/ı	min	Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q _{si}	Final, Q _{sf}	Average	Volume, m ³	μg/m ³
2-Sep-16	8:03	Cloudy	17035	2.8346	2.8365	18345.69	18346.69	1.00	1.08	1.08	1.08	65	29.2
2-Sep-16	9:10	Cloudy	17025	2.8094	2.8120	18346.69	18347.69	1.00	1.08	1.08	1.08	65	40.0
2-Sep-16	13:00	Cloudy	16780	2.8372	2.8460	18347.69	18348.69	1.00	1.08	1.08	1.08	65	135.2
8-Sep-16	9:25	Cloudy	17313	2.6156	2.6178	18372.69	18373.69	1.00	1.09	1.09	1.09	65	33.6
8-Sep-16	10:35	Cloudy	17309	2.6444	2.6464	18373.69	18374.69	1.00	1.09	1.09	1.09	65	30.5
8-Sep-16	13:00	Cloudy	17305	2.6461	2.6487	18374.69	18375.69	1.00	1.09	1.09	1.09	65	39.7
14-Sep-16	8:05	Fine	17302	2.6423	2.6521	18399.69	18400.69	1.00	1.22	1.22	1.22	73	133.4
14-Sep-16	10:30	Fine	17267	2.6913	2.6954	18400.69	18401.69	1.00	1.10	1.10	1.10	66	61.9
14-Sep-16	15:00	Fine	17265	2.7030	2.7104	18401.69	18402.69	1.00	1.10	1.10	1.10	66	111.8
20-Sep-16	8:05	Rainy	17245	2.6399	2.6463	18426.69	18427.69	1.00	1.24	1.24	1.24	74	86.3
20-Sep-16	9:07	Rainy	17238	2.7095	2.7139	18427.69	18428.69	1.00	1.11	1.11	1.11	67	65.8
20-Sep-16	10:30	Rainy	17231	2.6932	2.6983	18428.69	18429.69	1.00	1.11	1.11	1.11	67	76.3
26-Sep-16	8:03	Fine	17217	2.6954	2.7043	18453.69	18454.69	1.00	1.11	1.11	1.11	66	134.0
26-Sep-16	9:30	Fine	16750	2.8217	2.8327	18454.69	18455.69	1.00	1.11	1.11	1.11	66	165.7
26-Sep-16	13:00	Fine	16743	2.8257	2.8381	18455.69	18456.69	1.00	1.11	1.11	1.11	66	186.7

Location: CMA3a - CWB PRE Site Office Area

Report on 24-hour TSP monitoring Action Level (µg/m3) - 171 Limit Level (µg/m3) - 260

Date	Sampling	Weather	Filter paper	Filter Weigh	it, g	Elapse Time	e, hr	Sampling	Flo	w Rate, m³/ı	min	Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q _{si}	Final, Q _{sf}	Average	Volume, m ³	μg/m ³
1-Sep-16	8:00	Rainy	16715	2.8294	2.8939	5796.58	5820.58	24.00	1.13	1.13	1.13	1625	39.7
7-Sep-16	8:00	Rainy	15520	2.8285	2.8765	5823.58	5847.58	24.00	1.10	1.10	1.10	1586	30.3
13-Sep-16	8:00	Cloudy	17294	2.6914	2.7648	5850.58	5874.58	24.00	1.18	1.17	1.18	1693	43.4
19-Sep-16	8:00	Cloudy	17262	2.6922	2.7755	5877.59	5901.59	24.00	1.18	1.18	1.18	1699	49.0
24-Sep-16	8:00	Fine	17255	2.7045	2.8191	5904.59	5928.59	24.00	1.24	1.24	1.24	1788	64.1

Report on 1-hour TSP monitoring Action Level (µg/m3) - 311.3 Limit Level (µg/m3) - 500

Date	Sampling	Weather	Filter paper	Filter Weigh	nt, g	Elapse Tim	e, hr	Sampling	Flo	w Rate, m³/ı	min	Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q_{si}	Final, Q _{sf}	Average	Volume, m ³	μg/m³
2-Sep-16	8:30	Cloudy	17036	2.8195	2.8231	5820.58	5821.58	1.00	1.03	1.03	1.03	62	58.4
2-Sep-16	9:55	Cloudy	17026	2.8194	2.8214	5821.58	5822.58	1.00	1.03	1.03	1.03	62	32.5
2-Sep-16	10:57	Cloudy	16878	2.6509	2.6597	5822.58	5823.58	1.00	1.03	1.03	1.03	62	142.8
8-Sep-16	9:00	Cloudy	16778	2.8273	2.8294	5847.58	5848.58	1.00	1.03	1.03	1.03	62	33.8
8-Sep-16	10:20	Cloudy	16767	2.8215	2.8232	5848.58	5849.58	1.00	1.03	1.03	1.03	62	27.4
8-Sep-16	13:00	Cloudy	17316	2.8385	2.8399	5849.58	5850.58	1.00	1.03	1.03	1.03	62	22.6
14-Sep-16	9:03	Fine	17273	2.7147	2.7229	5874.58	5875.58	1.00	1.11	1.11	1.11	67	123.1
14-Sep-16	10:04	Fine	17269	2.6850	2.6932	5875.58	5876.58	1.00	1.11	1.11	1.11	67	123.1
14-Sep-16	13:26	Fine	17295	2.6348	2.6447	5876.58	5877.58	1.00	1.11	1.11	1.11	67	148.7
20-Sep-16	8:02	Rainy	17246	2.6471	2.6504	5901.59	5902.59	1.00	1.12	1.12	1.12	67	49.1
20-Sep-16	10:35	Rainy	17240	2.6851	2.6906	5902.59	5903.59	1.00	1.12	1.12	1.12	67	81.8
20-Sep-16	13:00	Rainy	17233	2.7025	2.7084	5903.59	5904.59	1.00	1.12	1.12	1.12	67	87.7
26-Sep-16	8:03	Fine	17219	2.7214	2.7296	5928.59	5929.59	1.00	1.24	1.24	1.24	74	110.4
26-Sep-16	10:50	Fine	16751	2.8227	2.8353	5929.59	5930.59	1.00	1.24	1.24	1.24	74	169.6
26-Sep-16	13:00	Fine	16753	2.8132	2.8305	5930.59	5931.59	1.00	1.24	1.24	1.24	74	232.9

Location: CMA4a - SPCA

Report on 24-hour TSP monitoring Action Level (µg/m3) - 171.2

171.2 Limit Level (µg/m3) -260

Date	Sampling	Weather	Filter paper	Filter Weigh	nt, g	Elapse Tim	e, hr	Sampling	Flo	w Rate, m³/ı	min	Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q _{si}	Final, Q _{sf}	Average	Volume, m ³	μg/m³
1-Sep-16	8:00	Rainy	17051	2.7976	2.8476	22580.24	22604.24	24.00	1.25	1.24	1.24	1793	27.9
7-Sep-16	8:00	Rainy	15521	2.8331	2.8507	22607.24	22631.24	24.00	1.15	1.15	1.15	1652	10.7
13-Sep-16	8:00	Cloudy	17293	2.6807	2.7728	22634.24	22658.24	24.00	1.13	1.12	1.13	1621	56.8
19-Sep-16	8:00	Cloudy	17263	2.6610	2.7349	22661.25	22685.25	24.00	1.13	1.13	1.13	1625	45.5
24-Sep-16	8:00	Fine	17224	2.7153	2.8088	22688.25	22712.25	24.00	1.13	1.13	1.13	1624	57.6

Report on 1-hour TSP monitoring Action Level (µg/m3) - 312 312.5 Limit Level (µg/m3) -500

Date	Sampling	Weather	Filter paper	Filter Weigh	nt, g	Elapse Tim	e, hr	Sampling	Flo	w Rate, m³/ı	min	Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q _{si}	Final, Q _{sf}	Average	Volume, m ³	μg/m ³
2-Sep-16	8:02	Cloudy	17031	2.8274	2.8296	22604.24	22605.24	1.00	1.14	1.14	1.14	68	32.1
2-Sep-16	9:15	Cloudy	17027	2.8342	2.8375	22605.24	22606.24	1.00	1.14	1.14	1.14	68	48.2
2-Sep-16	10:30	Cloudy	16879	2.6525	2.6591	22606.24	22607.24	1.00	1.14	1.14	1.14	68	96.4
8-Sep-16	8:50	Cloudy	17314	2.5801	2.5821	22631.24	22632.24	1.00	1.15	1.15	1.15	69	29.1
8-Sep-16	10:21	Cloudy	17310	2.6206	2.6223	22632.24	22633.24	1.00	1.15	1.15	1.15	69	24.7
8-Sep-16	13:00	Cloudy	17306	2.6525	2.6550	22633.24	22634.24	1.00	1.15	1.15	1.15	69	36.3
14-Sep-16	8:05	Fine	17274	2.7391	2.7447	22658.24	22659.24	1.00	1.12	1.12	1.12	67	83.1
14-Sep-16	9:10	Fine	17270	2.6843	2.6905	22659.24	22660.24	1.00	1.12	1.12	1.12	67	92.0
14-Sep-16	13:00	Fine	17266	2.6886	2.6991	22660.24	22661.24	1.00	1.12	1.12	1.12	67	155.8
20-Sep-16	8:02	Rainy	17247	2.6507	2.6549	22685.25	22686.25	1.00	1.22	1.22	1.22	73	57.3
20-Sep-16	9:10	Rainy	17241	2.6837	2.6893	22686.25	22687.25	1.00	1.22	1.22	1.22	73	76.5
20-Sep-16	10:30	Rainy	17232	2.7254	2.7327	22687.25	22688.25	1.00	1.13	1.13	1.13	68	107.6
26-Sep-16	8:05	Fine	16692	2.9136	2.9169	22712.25	22713.25	1.00	1.13	1.13	1.13	68	48.9
26-Sep-16	9:30	Fine	16752	2.8165	2.8295	22713.25	22714.25	1.00	1.13	1.13	1.13	68	192.5
26-Sep-16	10:32	Fine	16744	2.8239	2.8370	22714.25	22715.25	1.00	1.13	1.13	1.13	68	194.0

Location: CMA5b - Pedestrian Plaza

Report on 24-hour TSP monitoring

Action Level (µg/m3) - 181 Limit Level (µg/m3) - 260

Date	Sampling	Weather	Filter paper	Filter Weigh	ıt, g	Elapse Time	e, hr	Sampling	Flo	w Rate, m³/ı	min	Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q _{si}	Final, Q _{sf}	Average	Volume, m ³	μg/m³
1-Sep-16	8:00	Rainy	17038	2.8201	2.8753	7174.50	7198.50	24.00	0.94	0.94	0.94	1354	40.8
7-Sep-16	8:00	Rainy	16352	2.8336	2.8710	7201.50	7225.50	24.00	0.95	0.95	0.95	1363	27.4
13-Sep-16	8:00	Cloudy	17008	2.7175	2.8952	7228.50	7252.50	24.00	0.98	0.97	0.98	1408	126.2
20-Sep-16	14:00	Rainy	17227	2.6834	2.8590	7271.77	7295.77	24.00	0.99	0.99	0.99	1419	123.7
24-Sep-16	8:00	Fine	16698	2.9328	3.0314	7295.77	7319.77	24.00	0.87	0.87	0.87	1252	78.8

Remarks: Due to interruption of electricity, the 24hr TSP was rescheduled from 19 September 2016 to 20 September 2016.

Report on 1-hour TSP monitoring

Limit Level (µg/m3) - 500

Date	Sampling	Weather	Filter paper	Filter Weigh	nt, g	Elapse Tim	e, hr	Sampling	Flo	w Rate, m³/ı	min	Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q _{si}	Final, Q _{sf}	Average	Volume, m ³	³ μg/m ³
2-Sep-16	8:02	Cloudy	16838	2.6790	2.6802	7198.50	7199.50	1.00	0.88	0.88	0.88	53	22.8
2-Sep-16	9:10	Cloudy	17028	2.8286	2.8305	7199.50	7200.50	1.00	0.88	0.88	0.88	53	36.1
2-Sep-16	13:30	Cloudy	17021	2.8236	2.8357	7200.50	7201.50	1.00	1.00	1.00	1.00	60	201.5
8-Sep-16	8:35	Cloudy	17315	2.8341	2.8371	7225.50	7226.50	1.00	0.95	0.95	0.95	57	52.8
8-Sep-16	10:09	Cloudy	17311	2.6282	2.6352	7226.50	7227.50	1.00	0.95	0.92	0.93	56	125.3
8-Sep-16	13:00	Cloudy	17307	2.6684	2.6718	7227.50	7228.50	1.00	0.95	0.92	0.93	56	60.9
14-Sep-16	8:05	Fine	17334	2.7929	2.8054	7252.50	7253.50	1.00	0.92	0.92	0.92	55	226.8
14-Sep-16	9:10	Fine	17271	2.6871	2.7077	7253.50	7254.50	1.00	0.92	0.89	0.90	54	379.4
14-Sep-16	13:00	Fine	17297	2.6465	2.6633	7254.50	7255.50	1.00	0.86	0.86	0.86	52	324.4
20-Sep-16	8:05	Rainy	17324	2.7988	2.8038	7268.77	7269.77	1.00	0.99	0.99	0.99	59	84.5
20-Sep-16	9:10	Rainy	17249	2.6871	2.6950	7269.77	7270.77	1.00	0.99	0.99	0.99	59	133.6
20-Sep-16	10:30	Rainy	17236	2.6718	2.6829	7270.77	7271.77	1.00	0.99	0.99	0.99	59	187.7
26-Sep-16	8:05	Fine	17397	2.7948	2.8063	7319.77	7320.77	1.00	0.98	0.98	0.98	59	196.0
26-Sep-16	9:10	Fine	16759	2.8228	2.8441	7320.77	7321.77	1.00	0.92	0.92	0.92	55	385.0
26-Sep-16	13:00	Fine	16748	2.8146	2.8318	7321.77	7322.77	1.00	0.98	0.95	0.96	58	297.3

Action Level (µg/m3) - 332

Location: CMA6a - WD2 PRE Office

Report on 24-hour TSP monitoring

Action Level -	187.3	µg/m3
Limit Level -	260	µg/m3

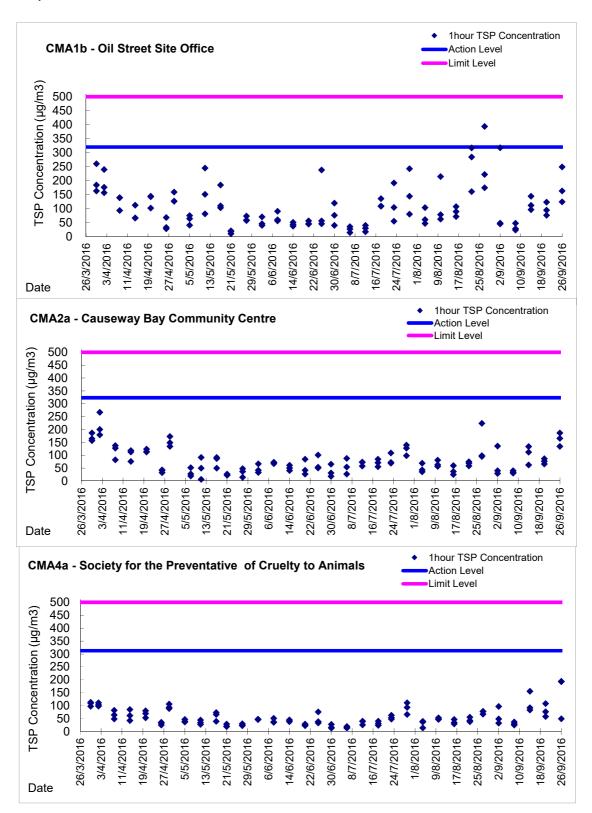
Date	Sampling	Weather	Filter paper	Filter Weigh	t, g	Elapse Tim	e, hr	Sampling	Flo	w Rate, m³/ı	min	Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q _{si}	Final, Q _{sf}	Average	Volume, m ³	μg/m ³
1-Sep-16	8:00	Rainy	17052	2.8076	2.8723	872.40	896.40	24.00	1.07	1.07	1.07	1544	41.9
7-Sep-16	8:00	Rainy	11288	2.7611	2.8070	900.39	924.39	24.00	1.08	1.08	1.08	1553	29.6
13-Sep-16	8:00	Cloudy	17290	2.6788	2.7908	927.39	951.39	24.00	1.10	1.09	1.10	1579	70.9
19-Sep-16	8:00	Cloudy	16322	2.8422	2.9475	954.40	978.40	24.00	1.10	1.10	1.10	1584	66.5
24-Sep-16	8:00	Fine	17221	2.6966	2.8088	981.40	1005.40	24.00	1.10	1.10	1.10	1584	70.9

Report on 1-hour TSP monitoring Action Level - 300.1 μ g/m³ Limit Level - 500 μ g/m3

Date	Sampling	Weather	Filter paper	Filter Weigh	nt, g	Elapse Tim	e, hr	Sampling	Flo	w Rate, m³/ı	min	Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q _{si}	Final, Q _{sf}	Average	Volume, m ³	μg/m ³
2-Sep-16	8:04	Cloudy	17037	2.8097	2.8119	896.40	897.40	1.00	1.01	1.01	1.01	61	36.2
2-Sep-16	9:30	Cloudy	17029	2.8149	2.8172	897.40	898.40	1.00	1.07	1.07	1.07	64	35.8
2-Sep-16	10:40	Cloudy	17022	2.8355	2.8430	898.40	899.40	1.00	1.07	1.07	1.07	64	116.7
8-Sep-16	9:55	Cloudy	16768	2.8380	2.8390	924.39	925.39	1.00	0.96	0.96	0.96	58	17.3
8-Sep-16	13:00	Cloudy	16691	2.9108	2.9152	925.39	926.39	1.00	1.08	1.08	1.08	65	68.0
8-Sep-16	14:05	Cloudy	16350	2.8426	2.8459	926.39	927.39	1.00	1.08	1.08	1.08	65	51.0
14-Sep-16	8:05	Fine	17332	2.7984	2.8052	951.39	952.39	1.00	1.09	1.09	1.09	66	103.7
14-Sep-16	10:05	Fine	17298	2.6329	2.6383	952.39	953.39	1.00	1.09	1.09	1.09	66	82.3
14-Sep-16	13:00	Fine	17296	2.6354	2.6500	953.39	954.39	1.00	1.09	1.09	1.09	66	222.6
20-Sep-16	8:05	Rainy	16318	2.8407	2.8436	978.40	979.40	1.00	1.10	1.10	1.10	66	43.8
20-Sep-16	10:15	Rainy	17242	2.6811	2.6865	979.40	980.40	1.00	1.10	1.10	1.10	66	81.5
20-Sep-16	13:00	Rainy	17234	2.6543	2.6604	980.40	981.40	1.00	1.05	1.05	1.05	63	96.8
26-Sep-16	8:05	Fine	17396	2.8116	2.8198	1005.40	1006.40	1.00	1.10	1.10	1.10	66	124.6
26-Sep-16	9:35	Fine	16757	2.8216	2.8303	1006.40	1007.40	1.00	1.04	1.04	1.04	63	138.9
26-Sep-16	13:00	Fine	16746	2.8235	2.8368	1007.40	1008.40	1.00	1.10	1.10	1.10	66	202.1

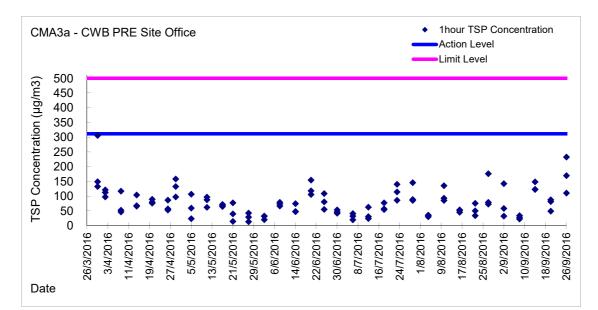


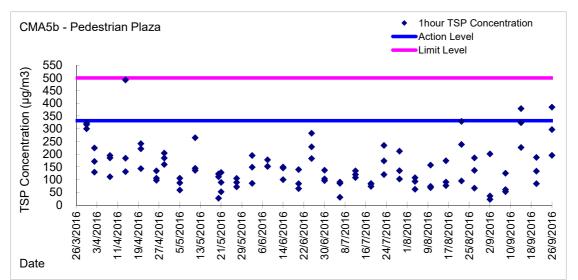
Graphic Presentation of 1 hour TSP Result

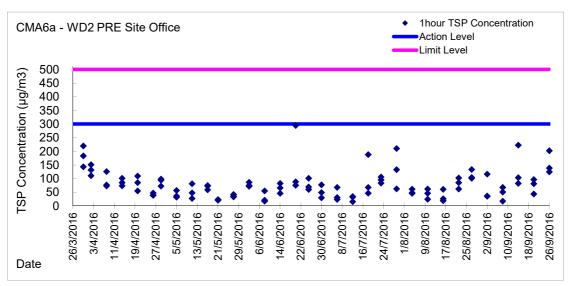




Graphic Presentation of 1 hour TSP Result

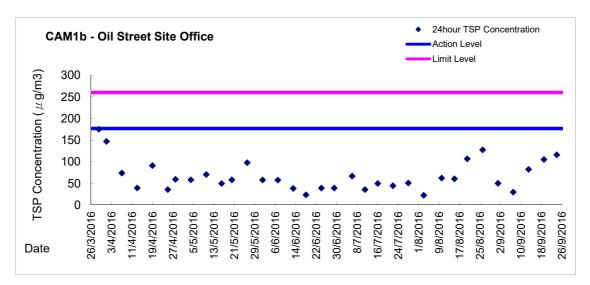


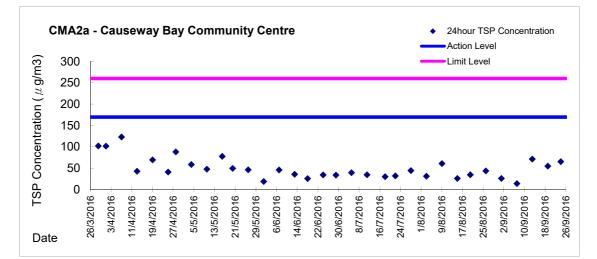


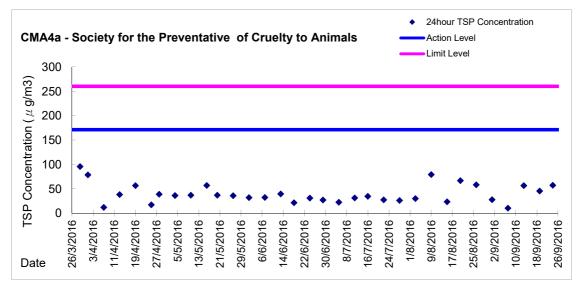




Graphic Presentation of 24 hour TSP Result



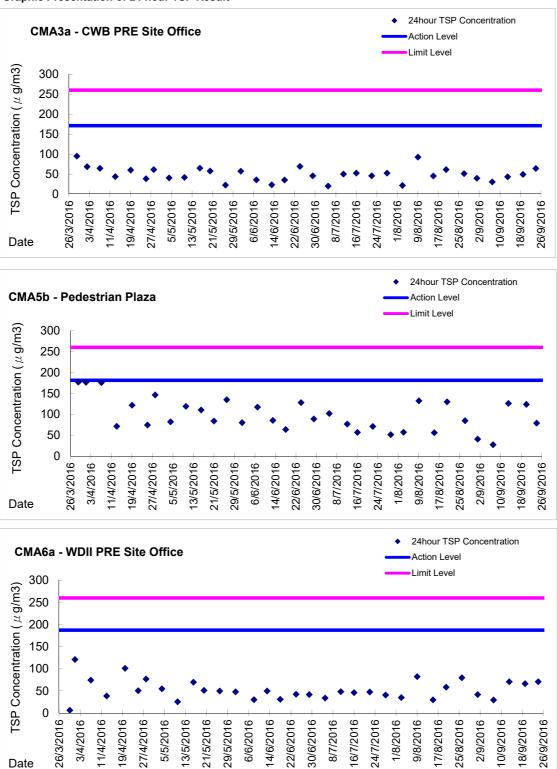






Contract no. HK/2015/01 Wanchai Development Phase II and Central Wanchai Bypass Sampling, Field Measurement and Testing Works (Stage 3)

Graphic Presentation of 24 hour TSP Result





		Field Data Recor	<u>d Sheet</u>			
Monitoring	13 September 2016	Weather Condition:	Fine	Tidal	Ebb	
Date:				Condition:		
Temperature:	<u>30.2ºC – 34.3ºC</u>	Relative Humidity:	<u>55.4% - 72.0%</u>			

Location	Time	Temperature (℃)	Relative Humidity (%)	Odour Intensity	Odour Nature	Possible Odour Sources	Duration	Wind Speed(m/s)	Wind Direction	Remarks
OP7	13:50	31.9	56.3	0	/	/	/	1.0	W	
OP6	13:47	34.3	64.7	0	/	/	/	0.6	W	
OP5	13:42	34.1	55.4	0	/	/	/	0	1	
OP4	13:38	31.6	72.0	1	Culvert Discharge	Sea	Persistent	2.3	NE	
OP3	13:30	30.2	68.2	0-1	Culvert Discharge	Sea	Intermittent	1.5	SE	
OP2	13:26	33.4	68.2	1	Culvert Discharge	Sea	Persistent	0.9	W	
OP1	13:23	31.4	71.9	1	Seawater	Sea	Intermittent	1.6	NE	

Remarks for Odour Intensity:

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 characterised 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 level



Contract No. HK/2015/01 Wanchai Development Phase II and Central-Wanchai Bypass Sampling, Field Measurement and testing Works (Stage 3) Proposal on Impact Monitoring for Odour Patrol along the shorelines of CBTS and ex-PCWA

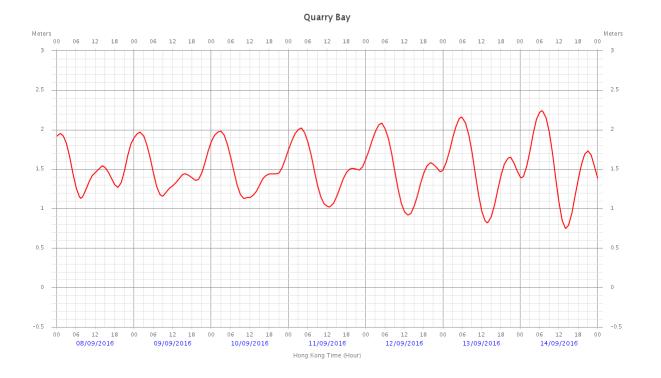
Meteorological Conditions on 13 September 2016

•	Hong Kong Observ	atory Weather S	Station at Hong Kong Observatory	
	Air Temperature:	26.0 – 30.9 ℃	Relative humidity:	73 – 96%

 Hong Kong Observatory Weather Station at Hong Kong Park Air Temperature: 25.8 – 30.4 ℃

• The tidal data at Quarry Bay Station

Tide Time	Tide Height (m)
05:41	2.2
13:42	0.8
20:39	1.7





		Field Data Record	<u>d Sheet</u>			
Monitoring	26 September 2016	Weather Condition:	Haze	Tidal	Ebb	
Date:				Condition:		
Temperature:	<u>30.5°C – 33.2°C</u>	Relative Humidity:	<u>64.9% - 84.5%</u>			

Location	Time	Temperature (℃)	Relative Humidity (%)	Odour Intensity	Odour Nature	Possible Odour Sources	Duration	Wind Speed(m/s)	Wind Direction	Remarks
OP7	13:51	31.6	69.4	0	/	/	/	0.1	SW	
OP6	13:47	32.7	68.9	1	Seawater	Sea	Intermittent	0.7	SW	
OP5	13:41	30.5	70.6	0	/	1	/	2.0	NE	
OP4	13:37	33.2	64.9	0	/	/	1	1.5	SW	
OP3	13:31	32.1	67.8	0-1	Mobile Exhaust	Vehicle	Intermittent	0.6	W	
OP2	13:25	31.3	77.6	0	/	/	1	0.4	S	
OP1	13:22	29.4	84.5	0-1	Culvert Discharge	Sea	Intermittent	0.4	S	

Remarks for Odour Intensity:

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 characterised 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 level



Contract No. HK/2015/01 Wanchai Development Phase II and Central-Wanchai Bypass Sampling, Field Measurement and testing Works (Stage 3) Proposal on Impact Monitoring for Odour Patrol along the shorelines of CBTS and ex-PCWA

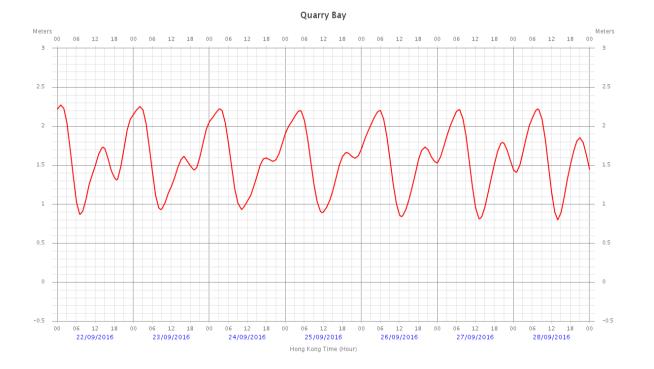
Meteorological Conditions on 26 September 2016

•	Hong Kong Observ	vatory Weather Stat	tion at Hong Kong Observatory	
	Air Temperature:	27.0 – 31.1 °C	Relative humidity:	71 – 89%

 Hong Kong Observatory Weather Station at Hong Kong Park Air Temperature: 26.3 – 30.8 ℃

• The tidal data at Quarry Bay Station

Tide Time	Tide Height (m)
05:41	2.2
12:33	0.8
20:04	1.7
23:41	1.5





Appendix 5.4

Water Quality Monitoring Results and Graphical Presentations

am Water Monitoring Result at C7 - Windsor House

Mid-Flood Tide

Date	Time	Weater	Samplin	g Depth	Wat	er Temp	perature		pН			Salinit	y	D	O Satur	ation		DO			Turbid		Suspend	
		Condition	n	n	Va	lue	Average	Va	- ilue	Average	Va	ppt ilue	Average	Va	lue	Average	Va	mg/L lue	Average	Va	NTU alue	Average	mı Value	g/L Average
29/8/2016	17:45	Cloudy	Middle	-	27.60	27.60	27.60	7.64	7.94	7.76	30.29	30.29	30.29	87.1	87.0	86.5	5.80	5.79	5.76	6.80	6.77	6.81	5	5.50
23/0/2010	17:47	Cloudy	Middle	-	27.60	27.60	27.00	7.72	7.72	1.10	30.28	30.28	30.29	86.2	85.6	00.5	5.74	5.70	5.70	6.84	6.83	0.01	6	5.50
31/8/2016	18:45	Fine	Middle	-	28.00	28.00	28.00	7.73	7.73	7.76	30.72	30.72	30.72	84.9	87.4	86.5	5.60	5.77	5.71	4.20	4.17	4.17	7	7.00
	18:47		Middle	-	28.00	28.00		7.79	7.79		30.72	30.72		87.2	86.5		5.75	5.70		4.15	4.15		7	
2/9/2016	18:00	Cloudy	Middle	-	28.50	28.50	28.50	7.69	7.70	7.70	30.41	30.41	30.41	68.5	68.8	68.4	4.49	4.50	4.48	6.20	6.16	6.10	5	5.00
	18:01	- ,	Middle	-	28.50	28.50		7.70	7.70		30.41	30.41		68.1	68.0		4.46	4.46		5.99	6.05		5	
5/9/2016	10:24	Cloudy	Middle	-	27.50	27.50	27.50	7.75	7.75	7.76	30.68	30.68	30.68	87.7	87.0	87.7	5.83	5.79	5.83	10.95	10.91	10.91	4	4.50
	10:26	- ,	Middle	-	27.50	27.50		7.76	7.76	-	30.68	30.68		87.8	88.1	-	5.84	5.86		10.89	10.89		5	
7/9/2016	12:04	Cloudy	Middle	-	27.30	27.30	27.30	7.71	7.71	7.72	29.88	29.88	29.89	82.6	82.2	81.7	5.54	5.51	5.48	13.12	13.12	13.22	7	8.00
	12:06		Middle	-	27.30	27.30		7.73	7.73		29.89	29.89		81.4	80.5		5.46	5.39		13.18	13.47		9	
10/9/2016	0:25	Cloudy	Middle	-	27.00	27.00	27.05	7.68	7.68	7.68	29.25	29.25	29.25	68.5	68.9	68.3	4.63	4.66	4.62	6.50	6.39	6.34	3	3.50
	0:26		Middle	-	27.10	27.10		7.68	7.68		29.25	29.25		68.6	67.2		4.64	4.54		6.21	6.27		4	
12/9/2016	14:40	Fine	Middle	-	29.20	29.20	29.30	7.65	7.65	7.66	28.92	28.92	28.92	85.5	85.9	86.0	5.58	5.61	5.61	5.69	5.62	5.58	8	9.00
	14:42		Middle	-	29.40	29.40		7.66	7.66		28.91	28.91		86.3	86.2		5.63	5.62		5.60	5.40		10	
14/9/2016	17:45	Fine	Middle	-	28.90	28.90	28.90	7.90	7.90	7.95	29.06	29.06	29.06	104.2	104.8	104.2	6.84	6.88	6.84	8.92	9.01	9.00	6	6.00
	17:47		Middle	-	28.90	28.90		7.99	7.99		29.06	29.06		103.6	104.3		6.79	6.84		9.05	9.00		6	
17/9/2016	18:05	Fine	Middle	-	28.70	28.70	28.75	7.67	7.67	7.71	30.06	30.06	30.06	87.0	89.4	88.3	5.69	5.85	5.78	4.78	4.82	4.79	5	4.50
	18:07		Middle	-	28.80	28.80		7.74	7.74		30.05	30.05		88.6	88.2		5.79	5.77		4.79	4.78		4	
19/9/2016	10:05	Fine	Middle	-	28.70	28.70	28.70	7.77	7.77	7.79	30.81	30.81	30.81	90.4	88.9	88.8	5.89	5.80	5.79	5.45	5.45	5.46	5	4.00
	10:07		Middle	-	28.70	28.70		7.81	7.81		30.80	30.80		87.1	88.9		5.67	5.79		5.47	5.45		3	
21/9/2016	10:45	Fine	Middle	-	28.30	28.30	28.30	7.93	7.93	7.92	31.09	31.09	31.09	87.9	89.4	89.1	5.76	5.86	5.84	6.06	6.05	6.02	10	9.00
	10:47		Middle	-	28.30	28.30		7.91	7.91		31.09	31.09		89.9	89.3		5.88	5.86		6.04	5.92		8	
23/9/2016	14:46	Fine	Middle	-	29.10	29.10	29.20	7.89	7.89	7.89	31.47	31.47	31.47	88.7	90.9	90.0	5.71	5.85	5.79	5.24	5.15	5.16	3	4.00
	14:48		Middle	-	29.30	29.30		7.89	7.89		31.47	31.47		90.0	90.2		5.79	5.80		5.12	5.12		5	
26/9/2016	17:05	Fine	Middle	-	28.30	28.30	28.55	7.88	7.88	7.89	31.34	31.34	31.35	98.4	97.4	97.6	6.39	6.32	6.33	3.84	3.89	3.94	5	6.00
	17:07		Middle	-	28.80	28.80		7.90	7.90		31.36	31.36		97.0	97.4		6.30	6.32		4.01	4.00		7	

am Water Monitoring Result at C1 - HKCEC Extension

Mid-Flood Tide

Date	Time	Weater Condition	Samplin	ig Depth	Wat	er Temp	perature	-	pН		-	Salini ppt		C	O Satur	ation		DO mg/L		-	Turbid NTU			led Solids q/L
		Condition	r	n	Va	ilue	Average	Va	- ilue	Average	Va	lue ppt	Average	Va	lue	Average	Va	lue	Average	Va	alue	Average		g/∟ Average
29/8/2016	16:47	Cloudy	Middle	2.5	26.90	26.90	26.90	7.94	7.94	7.94	30.51	30.51	30.54	77.8	77.0	75.8	5.23	5.18	5.10	7.12	698	6.85	7	7.00
20/0/2010	16:49	olouuy	Middle	2.5	26.90	26.90	20.00	7.94	7.94		30.57	30.57	00.01	74.6	73.6	10.0	5.02	4.95	0.10	6.73	6.70	0.00	7	
31/8/2016	17:32	Fine	Middle	3.5	28.00	28.00	28.00	7.87	7.87	7.87	30.69	30.69	30.69	68.2	68.4	69.0	4.50	4.58	4.57	6.52	6.52	6.52	7	- 7.00
	17:34		Middle	3.5	28.00	28.00		7.86	7.86		30.69	30.69		69.5	69.9		4.58	4.61		6.52	6.52		7	
2/9/2016	20:15	Cloudy	Middle	3.0	27.70	27.70	27.75	7.71	7.71	7.72	30.31	30.31	30.31	76.4	77.2	76.2	5.07	5.12	5.06	9.82	9.98	9.89	11	- 11.50
	20:16		Middle	3.0	27.80	27.80		7.72	7.72		30.31	30.31		75.5	75.7		5.01	5.02		9.87	9.90		12	
5/9/2016	9:30	Cloudy	Middle	3.0	26.90	26.90	26.90	7.85	7.85	7.85	31.11	31.11	31.11	89.7	89.8	89.7	6.01	6.02	6.01	7.92	7.98	7.94	10	9.50
	9:32		Middle	3.0	26.90	26.90		7.85	7.85		31.10	31.10		89.3	90.0		5.99	6.03		7.95	7.90		9	
7/9/2016	11:03	Cloudy	Middle	2.5	26.90	26.90	26.90	7.82	7.82	7.83	30.49	30.49	30.50	71.8	71.4	70.4	4.83	4.81	4.74	9.08	9.01	9.02	9	8.50
	11:05		Middle	2.5	26.90	26.90		7.83	7.83		30.51	30.51		70.3	68.2		4.73	4.59		9.02	8.96		8	
10/9/2016	2:10	Cloudy	Middle	3.0	27.20	27.20	27.20	7.60	7.60	7.59	29.31	29.31	29.31	75.8	76.1	75.9	5.11	5.13	5.12	2.46	2.48	2.52	2	2.50
	2:11		Middle	3.0	27.20	27.20		7.58	7.58		29.31	29.31		76.2	75.5		5.14	5.09		2.55	2.58		3	
12/9/2016	17:09	Fine	Middle	3.5	28.20	28.20	28.25	7.78	7.78	7.79	28.76	28.76	29.26	87.8	86.9	86.4	5.80	5.74	5.71	4.31	4.36	4.34	5	4.00
	17:11		Middle	3.5	28.30	28.30		7.79	7.79		29.76	29.76		86.9	83.9		5.74	5.54		4.36	4.32		3	
14/9/2016	16:30	Fine	Middle	3.0	28.20	28.20	28.20	8.04	8.04	8.04	29.73	29.73	29.74	91.8	91.5	91.0	6.07	6.05	6.02	8.61	8.25	8.37	8	8.00
	16:32		Middle	3.0	28.20	28.20		8.04	8.04		29.74	29.74		90.2	90.5		5.96	5.99		8.25	8.37		8	
17/9/2016	17:11	Fine	Middle	2.5	28.40	28.40	28.40	7.90	7.90	7.90	30.29	30.29	30.30	78.9	77.9	78.1	5.19	5.12	5.05	7.57	7.52	7.57	5	4.50
	17:13		Middle	2.5	28.40	28.40		7.89	7.89		30.30	30.30	 	77.8	77.7		5.11	4.78		7.61	7.57		4	
19/9/2016	9:01	Fine	Middle	3.5	27.70	27.70	20.78	7.94	7.94	7.89	31.08	31.08	31.08	89.6	88.4	88.8	5.92	5.84	5.87	13.08	13.09	<u>13.10</u>	5	4.50
	9:03		Middle	3.5	0.00	27.70		7.84	7.84		31.08	31.08		88.5	88.5		5.85	5.86		13.10	13.11		4	
21/9/2016	9:40	Fine	Middle	3.0	27.40	27.40	27.40	7.94	7.94	7.94	31.19	31.19	31.19	88.0	87.6	87.6	5.85	5.82	5.82	9.79	9.83	9.84	12	12.00
	9:42		Middle	3.0	27.40	27.40		7.94	7.94		31.19	31.19		87.2	87.4		5.80	5.81		9.88	9.87		12	
23/9/2016	11:39	Fine	Middle	3.5	27.80	27.80	27.80	7.96	7.96	7.96	31.51	31.51	31.51	88.8	88.1	88.2	5.85	5.81	5.82	6.00	6.05	6.06	6	6.50
	11:41		Middle	3.5	27.80	27.80		7.96	7.96		31.51	31.51		87.9	88.1		5.80	5.81		6.09	6.10		7	
26/9/2016	16:10	Fine	Middle	3.0	28.50	28.50	28.55	7.95	7.95	7.95	31.39	31.39	31.39	86.4	86.2	86.5	5.63	5.61	5.65	6.53	6.67	6.63	4	4.50
	16:12		Middle	3.0	28.60	28.60		7.95	7.95		31.39	31.39		86.8	86.7		5.68	5.67		6.66	6.67		5	

am Water Monitoring Result at P1 - HKCEC Phase I

Mid-Flood Tide

Date	Time	Weater Condition	Samplin	ig Depth	Wat	er Temp	perature		pН			Salinit ppt	ty	D	O Satur	ation		DO mg/L			Turbid NTU		Suspend	
		Condition	r	n	Va	lue	Average	Va	lue -	Average	Va	lue ppt	Average	Va	lue	Average	Va		Average	Va	alue	Average	,	Average
29/8/2016	16:31	Cloudy	Middle	2.5	26.90	26.90	26.90	7.90	7.90	7.91	30.69	30.69	30.63	81.0	80.9	80.1	5.44	5.44	5.38	6.73	6.63	6.62	5	5.50
	16:33		Middle	2.5	26.90	26.90		7.92	7.92		30.57	30.57		79.6	78.7		5.35	5.27		6.56	6.56		6	
31/8/2016	17:16	Fine	Middle	3.5	28.30	28.30	28.35	7.86	7.86	7.87	30.76	30.76	30.76	90.4	89.1	89.6	5.93	5.84	5.87	9.73	9.94	9.69	7	7.50
	17:18		Middle	3.5	28.40	28.40		7.87	7.87	1	30.75	30.75		89.8	89.1		5.88	5.84		9.54	9.54		8	
2/9/2016	19:40	Cloudy	Middle	3.0	27.80	27.80	27.85	7.76	7.76	7.77	29.93	29.93	29.93	66.1	66.5	66.7	4.38	4.42	4.43	7.93	7.85	7.91	6	6.50
	19:41		Middle	3.0	27.90	27.90		7.77	7.77		29.93	29.93		66.9	67.2		4.44	4.46		7.90	7.94		7	
5/9/2016	9:10	Cloudy	Middle	3.0	27.30	27.30	27.35	7.81	7.81	7.82	31.13	31.13	31.13	94.0	94.5	93.6	6.25	6.29	6.23	5.92	5.92	5.92	6	5.50
	9:12		Middle	3.0	27.40	27.40		7.83	7.83		31.13	31.13		92.8	93.0		6.17	6.19		5.91	5.91		5	
7/9/2016	10:47	Cloudy	Middle	2.5	27.10	27.10	27.10	7.80	7.80	7.81	30.28	30.30	30.29	70.3	69.8	69.9	4.72	4.69	4.69	6.81	6.80	6.80	5	5.50
	10:49		Middle	2.5	27.10	27.10		7.81	7.81		30.28	30.28		70.1	69.2		4.70	4.65		6.80	6.79		6	
10/9/2016	1:50	Cloudy	Middle	3.0	27.10	27.10	27.10	7.68	7.68	7.70	29.44	29.44	29.44	79.2	78.2	78.4	5.34	5.27	5.29	2.39	2.43	2.40	<2	<2
	1:51		Middle	3.0	27.10	27.10		7.71	7.71		29.43	29.43		78.4	77.6		5.29	5.24		2.36	2.40		<2	
12/9/2016	16:53	Fine	Middle	3.5	29.10	29.10	29.25	7.78	7.78	7.79	29.59	29.59	29.57	84.3	87.4	87.4	6.13	6.00	5.92	3.77	3.52	3.57	4	4.00
	16:55		Middle	3.5	29.40	29.40		7.79	7.79		29.55	29.55 29.53		89.7	88.1 97.9		5.83	5.72		3.50	3.49		4	
14/9/2016	16:10 16:12	Fine	Middle Middle	3.0 3.0	28.50 28.70	28.50 28.70	28.60	8.00 8.02	8.00 8.02	8.01	29.53 29.53	29.53	29.53	97.8 97.1	97.9 97.6	97.6	6.42 6.31	6.43 6.41	6.39	7.83 7.67	7.80 7.76	7.77	6	6.50
	16:55		Middle	2.5	28.20	28.20		7.85	7.85		30.66	30.66		88.1	87.6		5.83	5.76		8.67	8.61		7	
17/9/2016	16:57	Fine	Middle	2.5	28.40	28.40	28.30	7.86	7.86	7.86	30.65	30.65	30.66	85.6	86.6	87.0	5.62	5.69	5.73	8.60	8.61	8.62	7	7.00
	8:45		Middle	3.5	27.70	27.70		7.88	7.88		30.69	30.69		89.4	93.4		5.92	6.18		10.14	10.10		5	
19/9/2016	8:47	Fine	Middle	3.5	27.90	27.90	27.80	7.90	7.90	7.89	30.66	30.66	30.68	91.6	95.6	92.5	6.06	6.32	6.12	10.02	10.01	10.07	5	5.00
	9:15		Middle	3.0	27.60	27.60		7.91	7.91		31.10	31.10		94.7	93.3		6.28	6.18		8.25	8.23		7	
21/9/2016	9:17	Fine	Middle	3.0	27.60	27.60	27.60	7.92	7.92	7.92	31.10	31.10	31.10	94.4	92.8	93.8	6.25	6.15	6.22	8.24	8.24	8.24	7	7.00
	11:23		Middle	3.5	27.90	27.90		7.93	7.93		31.40	31.40		96.9	95.8		6.38	6.30		9.56	9.42		4	
23/9/2016	11:25	Fine	Middle	3.5	28.00	28.00	27.95	7.94	7.94	7.94	31.40	31.40	31.40	95.1	93.8	95.4	6.26	6.17	6.28	9.33	9.39	9.43	4	4.00
26/0/2242	15:50	Eire -	Middle	3.0	28.70	28.70	00.75	7.92	7.92	7.00	31.65	31.65	21.05	98.3	98.0	07.0	6.37	6.35	6.04	5.92	5.91	E 00	6	6.00
26/9/2016	15:52	Fine	Middle	3.0	28.80	28.80	28.75	7.94	7.94	7.93	31.65	31.65	31.65	98.7	96.3	97.8	6.40	6.24	6.34	5.89	5.87	5.90	6	6.00

am Water Monitoring Result at P3 - APA

Mid-Flood Tide

Date	Time	Weater Condition	Samplin	g Depth	Wat	er Temp °C	perature		pH -			Salini ppt	ty	D	O Satur %	ation		DO mg/L			Turbid NTU		Suspend	
		Condition	n	n	Va	lue	Average	Va	- alue	Average	Va	lue ppt	Average	Va	lue	Average	Va		Average	Va	-	Average		Average
29/8/2016	16:35	Cloudy	Middle	2.5	26.70	26.70	26.70	7.92	7.92	7.92	30.53	30.53	30.58	70.7	70.7	71.4	4.77	4.77	4.82	6.73	6.84	7.00	9	8.00
	16:37	,	Middle	2.5	26.70	26.70		7.92	7.92		30.63	30.63		72.5	71.8		4.89	4.85		7.20	7.24		7	
31/8/2016	17:20	Fine	Middle	3.5	28.00	28.00	28.05	7.87	7.87	7.87	30.83	30.83	30.83	76.7	77.8	76.8	5.06	5.13	4.98	5.93	5.92	5.94	5	5.50
	17:22		Middle	3.5	28.10	28.10		7.86	7.86		30.83	30.83		77.5	75.3		4.77	4.96		5.99	5.90		6	
2/9/2016	19:50	Cloudy	Middle	3.0	27.70	27.70	27.70	7.77	7.77	7.78	30.01	30.01	30.02	72.4	71.7	72.1	4.81	4.76	4.79	6.56	6.58	6.56	6	6.50
	19:51		Middle	3.0	27.70	27.70		7.78	7.78		30.03	30.03		72.4	71.9		4.81	4.77		6.53	6.55		7	
5/9/2016	9:15	Cloudy	Middle	3.0	26.90	26.90	26.95	7.84	7.84	7.84	31.14	31.74	31.29	87.5	86.7	86.9	5.86	5.80	5.82	5.83	5.72	5.78	7	7.00
	9:17		Middle	3.0	27.00	27.00		7.84	7.84		31.14	31.14		87.2	86.1		5.85	5.76		5.79	5.76		7	
7/9/2016	10:51	Cloudy	Middle	2.5	27.00	27.00	27.00	7.81	7.81	7.81	30.21	30.21	30.28	76.4	75.0	74.8	5.14	5.03	5.03	7.75	7.78	7.70	7	7.00
	10:53		Middle	2.5	27.00	27.00		7.81	7.81		30.34	30.34		74.0	73.7		4.98	4.95		7.66	7.59		7	
10/9/2016	1:56	Cloudy	Middle	3.0	27.10	27.10	27.10	7.79	7.79	7.80	29.39	29.39	29.39	76.4	76.4	76.0	5.15	5.15	5.12	2.65	2.66	2.64	<2	<2
	1:57		Middle	3.0	27.10	27.10		7.80	7.80		29.39	29.39		75.7	75.3		5.10	5.08		2.63	2.61		<2	
12/9/2016	16:57	Fine	Middle	3.5	28.60	28.60	28.65	7.79	7.79	7.79	29.63	29.63	29.63	82.4	82.4	82.8	5.41	5.41	5.39	3.82	3.94	3.87	4	4.50
	16:59		Middle	3.5	28.70	28.70		7.79	7.79		29.63	29.63		81.5	84.9		5.35	5.38		3.95	3.75		5	
14/9/2016	16:15	Fine	Middle	3.0	28.50	28.50	28.55	8.03	8.03	8.04	29.49	29.49	29.49	97.7	97.8	97.4	6.44	6.44	6.41	6.64	6.69	6.69	5	5.00
	16:17		Middle	3.0	28.60	28.60		8.04	8.04		29.49	29.49		97.5	96.4		6.42	6.35		6.79	6.64		5	
17/9/2016	16:59	Fine	Middle	2.5	27.80	27.80	27.85	7.88	7.88	7.89	30.59	30.59	31.09	84.4	85.9	88.2	5.59	5.68	5.81	6.46	6.47	6.45	6	5.50
	17:01		Middle	2.5	27.90	27.90		7.89	7.89		32.59	30.59		90.2	92.2		5.86	6.10		6.40	6.47		5	
19/9/2016	8:49	Fine	Middle	3.5	27.40	27.40	27.45	7.90	7.90	7.91	30.82	30.82	30.82	84.1	78.5	82.9	5.61	5.22	5.52	10.83	10.85	10.85	8	8.00
	8:51		Middle	3.5	27.50	27.50		7.91	7.91		30.82	30.82 31.08		83.8	85.2		5.57	5.66		10.86	10.87		8	
21/9/2016	9:20 9:22	Fine	Middle Middle	3.0 3.0	27.20 27.60	27.20 27.60	27.40	7.92 7.91	7.92 7.91	7.92	31.08 31.08	31.08	31.08	84.6 84.7	85.4 85.6	85.1	5.64 5.64	5.69 5.71	5.67	7.65	7.63 7.64	7.64	6	6.00
	9:22		Middle	3.0	27.60	27.60		7.91	7.91		31.08	31.08		92.3	92.2		5.64 6.10	6.10		8.74	8.58		7	
23/9/2016	11:27	Fine	Middle	3.5	27.00	27.00	27.65	7.94	7.94	7.94	31.39	31.39	31.39	92.3	92.2	91.7	6.07	5.99	6.07	8.55	8.58	8.61	5	6.00
	15:55		Middle	3.0	28.60	28.60		7.94	7.94		31.39	31.49		91.8	90.0		5.95	5.88		6.38	6.33		7	
26/9/2016		Fine					28.60			7.92			31.50			89.9			5.85			6.32		6.50
	15:57		Middle	3.0	28.60	28.60		7.93	7.93		31.51	31.51		89.0	88.7		5.79	5.78		6.38	6.19		6	

am Water Monitoring Result at P4 - SOC

Mid-Flood Tide

Date	Time	Weater Condition	Samplin	g Depth	Wat	er Temp °C	perature		pH -			Salinit ppt	ty	D	O Satur %	ation		DO mg/L			Turbid NTU		Suspend	
		Condition	n	n	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	alue	Average	Value	Average
29/8/2016	16:39	Cloudy	Middle	2.5	26.90	26.90	26.95	7.92	7.92	7.92	30.57	30.57	30.57	68.9	68.4	68.0	4.62	4.59	4.56	7.87	7.66	7.71	7	7.50
	16:41		Middle	2.5	27.00	27.00		7.92	7.92	1	30.57	30.57		67.8	67.0		4.54	4.50		7.66	7.66		8	
31/8/2016	17:24	Fine	Middle	3.5	27.90	27.90	27.90	7.87	7.87	7.87	30.83	30.83	30.83	81.1	81.3	80.9	5.36	5.37	5.34	6.07	6.06	6.12	6	6.00
	17:26		Middle	3.5	27.90	27.90		7.87	7.87		30.82	30.82		80.2	80.8		5.30	5.34		6.17	6.18		6	
2/9/2016	19:56	Cloudy	Middle	3.0	27.60	27.60	27.65	7.78	7.78	7.78	30.26	30.26	30.26	67.6	67.9	67.8	4.51	4.51	4.51	9.76	9.74	9.77	11	11.00
	19:57		Middle	3.0	27.70	27.70		7.78	7.78		30.26	30.26		67.7	67.9		4.50	4.51		9.81	9.78		11	
5/9/2016	9:20	Cloudy	Middle	3.0	26.90	26.90	26.90	7.84	7.84	7.85	31.05	31.05	31.06	84.3	85.1	84.5	5.65	5.70	5.65	7.45	7.31	7.36	6	5.50
	9:22		Middle	3.0	26.90	26.90		7.85	7.85		31.06	31.06		84.0	84.4		5.62	5.63		7.30	7.37		5	
7/9/2016	10:55	Cloudy	Middle	2.5	26.90	26.90	26.90	7.81	7.81	7.81	30.31	30.31	30.36	76.4	74.5	73.3	5.12	5.02	4.93	9.03	9.06	9.00	8	8.00
	10:57		Middle	2.5	26.90	26.90		7.81	7.81		30.41	30.41		72.1	70.1		4.85	4.72		9.02	8.88		8	
10/9/2016	2:03	Cloudy	Middle	3.0	27.10	27.10	27.10	7.78	7.78	7.78	29.39	29.39	29.39	66.1	66.4	66.2	4.46	4.48	4.46	2.40	2.35	2.34	2	3.00
	2:04		Middle	3.0	27.10	27.10		7.78	7.78		29.39	29.39		66.2	65.9		4.46	4.44		2.32	2.30		4	
12/9/2016	17:01	Fine	Middle	3.5	28.20	28.20	28.25	7.79	7.79	7.79	29.82	29.84	29.84	80.2	79.9	79.6	5.30	5.28	5.26	4.38	4.39	4.40	3	3.50
	17:03		Middle	3.5	28.30	28.30		7.79	7.79		29.84	29.84		79.4	78.7		5.24	5.20		4.40	4.44		4	
14/9/2016	16:20	Fine	Middle	3.0	28.20	28.20	28.20	8.04	8.04	8.04	29.59	29.59	29.60	91.8	93.4	93.0	6.08	6.19	6.16	7.99	7.78	7.77	6	7.00
	16:22		Middle	3.0	28.20	28.20		8.04	8.04		29.60	29.60		93.7	93.1		6.20	6.17		7.66	7.66		8	
17/9/2016	17:03	Fine	Middle	27.9	27.90	27.90	27.90	7.90	7.90	7.90	30.61	30.61	30.62	83.6	83.3	83.6	5.53	5.51	5.45	7.19	7.21	7.21	6	6.00
	17:05		Middle	2.5	27.90	27.90		7.90	7.90		30.62	30.62		87.0	80.5		5.42	5.32		7.21	7.24		6	
19/9/2016	8:53	Fine	Middle	3.5	27.60	27.60	27.65	7.91	7.91	7.92	31.04	31.04	31.05	88.8	87.4	88.0	5.88	5.79	5.83	14.01	14.00	<u>14.00</u>	7	7.00
	8:55		Middle	3.5	27.70	27.70		7.93	7.93		31.06	31.06		87.2	88.7		5.77	5.87		14.00	14.00		7	
21/9/2016	9:25	Fine	Middle	3.0	27.30	27.30	27.30	7.92	7.92	7.93	31.13	31.13	31.13	89.4	89.9	89.7	5.95	5.97	5.97	9.14	9.12	9.21	11	11.00
	9:27		Middle	3.0	27.30	27.30		7.93	7.93		31.13	31.13		90.0	89.6		6.00	5.96		9.28	9.29		11	
23/9/2016	11:31	Fine	Middle	3.5	27.60	27.60	27.65	7.94	7.94	7.90	31.48	31.48	31.49	94.8	94.9	94.0	6.26	6.27	6.21	8.30	8.35	8.33	7	7.00
	11:33		Middle	3.5	27.70	27.70		7.85	7.85		31.49	31.49		93.5	92.7		6.18	6.12		8.33	8.35		7	
26/9/2016	16:00	Fine	Middle	3.0	28.60	28.60	28.60	7.94	7.94	7.94	31.48	31.48	31.49	88.0	88.1	87.8	5.72	5.73	5.71	7.48	7.56	7.64	7	6.50
	16:02		Middle	3.0	28.60	28.60		7.94	7.94		31.49	31.49		88.1	86.9		5.73	5.65		7.62	7.89		6	

am Water Monitoring Result at P5 - WCT / RT / IT

Mid-Flood Tide

Date	Time	Weater Condition	Samplin	ng Depth	Wat	er Temp °C	oerature		pH -			Salini ppt	,	D	O Satur	ation		DO mg/L			Turbid NTU		Suspend	ded Solids
		Condition	r	n	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	alue	Average		Average
29/8/2016	16:43	Cloudy	Middle	2.5	26.90	26.90	26.90	7.92	7.92	7.93	30.57	30.57	30.56	76.7	74.0	74.3	5.16	4.97	4.99	6.66	6.71	6.71	8	7.50
20,0,2010	16:45	cloudy	Middle	2.5	26.90	26.90	20.00	7.93	7.93	1.00	30.51	30.59	00.00	73.3	73.0	1 1.0	4.93	4.91		6.52	6.93		7	
31/8/2016	17:28	Fine	Middle	3.5	27.90	27.90	27.95	7.87	7.87	7.87	30.77	30.77	30.77	77.0	78.4	78.2	5.09	5.18	5.16	6.05	6.02	5.97	6	5.50
	17:30		Middle	3.5	28.00	28.00		7.87	7.87		30.77	30.77	1	78.3	78.9		5.17	5.21		6.00	5.81		5	
2/9/2016	20:06	Cloudy	Middle	3.0	27.60	27.60	27.65	7.80	7.80	7.80	30.27	30.27	30.27	66.0	67.1	66.9	4.39	4.47	4.45	9.76	9.74	9.67	13	12.00
	20:07		Middle	3.0	27.70	27.70		7.79	7.80		30.27	30.27		67.1	67.4		4.46	4.48		9.60	9.58		11	<u> </u>
5/9/2016	9:25	Cloudy	Middle	3.0	26.90	26.90	26.90	7.85	7.85	7.85	31.08	31.08	31.09	85.0	84.4	84.1	5.73	5.66	5.65	7.92	7.90	7.91	7	6.50
	9:27		Middle	3.0	26.90	26.90		7.85	7.85		31.09	31.09		82.3	84.7		5.52	5.69		7.90	7.90		6	\square
7/9/2016	10:59 11:01	Cloudy	Middle Middle	2.5 2.5	26.90 26.90	26.90 26.90	26.90	7.81	7.81 7.82	7.82	30.35 30.46	30.35 30.46	30.41	70.2 66.6	68.1 65.5	67.6	4.72 4.48	4.58 4.40	4.55	9.20 9.12	9.23 9.13	9.17	7	7.00
	2:07		Middle	3.0	27.10	20.90		7.76	7.76		29.49	29.49		71.3	71.1		4.40	4.40		9.12	2.19		2	┝──┥
10/9/2016	2:08	Cloudy	Middle	3.0	27.10	27.10	27.15	7.77	7.77	7.77	29.49	29.49	29.50	70.5	70.1	70.8	4.75	4.73	4.77	2.21	2.19	2.19	4	3.00
	17:05		Middle	3.5	28.30	28.30		7.79	7.79		29.63	29.63		70.5	68.8		4.66	4.54		3.74	3.73		2	╞───┤
12/9/2016	17:07	Fine	Middle	3.5	28.30	28.30	28.30	7.78	7.78	7.79	29.64	29.64	29.64	64.8	72.6	69.2	4.28	4.79	4.57	3.84	3.74	3.76	4	3.00
	16:25		Middle	3.0	28.00	28.00		8.04	8.04		29.76	29.76		88.0	88.1		5.83	5.84		9.00	8.67		7	+
14/9/2016	16:27	Fine	Middle	3.0	28.10	28.10	28.05	8.04	8.04	8.04	29.76	29.76	29.76	88.8	88.7	88.4	5.88	5.88	5.86	8.64	8.50	8.70	9	8.00
	17:07		Middle	2.5	28.50	28.50		7.90	7.90		30.63	30.63		86.4	85.0		5.70	5.61		8.23	8.03		6	
17/9/2016	17:09	Fine	Middle	2.5	28.00	28.00	28.25	7.91	7.91	7.91	30.64	30.64	30.64	84.9	84.6	85.2	5.61	5.59	5.63	7.66	7.65	7.89	5	5.50
10/0/0010	8:57	Cia e	Middle	3.5	27.70	27.70	07.70	7.93	7.93	7.04	31.07	31.07	04.07	86.2	88.0	07.0	5.71	5.83	5.04	14.06	14.00	40.00	10	0.50
19/9/2016	8:59	Fine	Middle	3.5	27.70	27.70	27.70	7.94	7.94	7.94	31.07	31.07	31.07	88.7	88.8	87.9	5.81	5.88	5.81	13.90	13.76	<u>13.93</u>	9	9.50
21/9/2016	9:30	Fine	Middle	3.0	27.30	27.30	27.30	7.93	7.93	7.94	31.16	31.16	31.16	88.1	89.2	88.5	5.86	5.94	5.88	10.19	10.13	10.08	9	9.50
21/0/2010	9:32		Middle	3.0	27.30	27.30	21.00	7.94	7.94	1.34	31.17	31.16	01.10	86.9	89.8	00.0	5.72	5.98	0.00	10.06	9.92	10.00	10	3.50
23/9/2016	11:35	Fine	Middle	3.5	27.80	27.80	27.80	7.95	7.95	7.96	31.51	31.51	31.51	81.0	80.9	81.3	5.34	5.33	5.36	8.55	8.90	8.87	9	8.50
	11:37		Middle	3.5	27.80	27.80		7.96	7.96		31.51	31.51		81.6	81.8		5.38	5.39		9.02	9.00		8	
26/9/2016	16:05	Fine	Middle	3.0	28.60	28.60	28.60	7.95	7.95	7.95	31.47	31.47	31.49	92.4	93.0	92.3	6.01	6.05	6.01	8.39	8.61	8.56	7	7.00
	16:07		Middle	3.0	28.60	28.60		7.95	7.95		31.50	31.50		92.9	91.0		6.04	5.95		8.62	8.63		7	

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Water Monitoring Result at RW21-P789 - Sun Hung Kai Centre Mid-Flood Tide

Date	Time	Weater Condition	Samplin	g Depth	Wat	er Temp	perature		pН			Salinit ppt	y	D	O Satura	ation		DO mg/L			Turbid NTU	ity		led Solids a/L
		Condition	n	n	Va	lue	Average	Va	ilue -	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	alue	Average	Value	Average
29/8/2016	17:01	Cloudy	Middle	3.5	27.10	27.10	27.10	7.89	7.89	7.90	30.93	30.93	30.92	61.3	60.8	61.0	4.10	4.07	4.08	8.24	8.25	8.22	10	9.50
	17:03		Middle	3.5	27.10	27.10		7.91	7.91		30.91	30.91		60.7	61.2		4.06	4.07		8.21	8.18		9	
31/8/2016	17:45	Fine	Middle	3.5	27.60	27.60	27.60	7.85	7.85	7.86	30.74	30.74	30.74	75.6	75.4	75.6	5.02	5.01	5.02	7.79	7.73	7.69	9	9.50
	17:47		Middle	3.5	27.60	27.60		7.86	7.86		30.74	30.74		76.1	75.3		5.05	5.00		7.68	7.57		10	<u> </u>
2/9/2016	18:40	Cloudy	Middle	3.0	27.70	27.70	27.75	7.70	7.70	7.71	29.84	29.84	29.84	65.7	65.7	65.2	4.36	4.37	4.34	11.13	11.07	<u>11.10</u>	10	10.50
	18:41		Middle	3.0	27.80	27.80		7.71	7.71		29.83	29.83		64.8	64.4		4.31	4.30		11.15	11.06		11	
5/9/2016	9:45	Cloudy	Middle	4.0	27.00	27.00	27.05	7.80	7.80	7.81	31.32	31.32	31.32	80.9	81.4	80.5	5.40	5.44	5.38	7.87	7.86	7.83	8	7.50
	9:47		Middle	4.0	27.10	27.10		7.82	7.82		31.32	31.32		79.6	80.2		5.32	5.36		7.79	7.78		7	<u> </u>
7/9/2016	11:27	Cloudy	Middle	3.5	27.00	27.00	27.00	7.82	7.82	7.82	30.36	30.36	30.36	64.9	64.0	63.7	4.36	4.29	4.28	7.50	7.51	7.51	7	6.50
	11:29		Middle	3.5	27.00	27.00		7.82	7.82		30.35	30.35		63.3	62.5		4.25	4.20		7.54	7.50		6	<u> </u>
10/9/2016	1:15	Cloudy	Middle	3.5	27.00	27.00	27.05	7.54	7.54	7.60	29.50	29.50	29.50	70.4	71.3	70.8	4.75	4.81	4.78	2.21	2.17	2.16	<2	<u><2</u>
	1:16		Middle	3.5	27.10	27.10		7.66	7.66		29.50	29.50		70.3	71.2		4.74	4.80		2.14	2.13		<2	<u> </u>
12/9/2016	13:45	Fine	Middle	3.5	29.80	29.80	29.90	7.76	7.76	7.76	29.14	29.14	29.14	79.2	79.8	78.8	5.10	5.14	5.08	4.04	4.00	4.00	2	3.00
	13:47		Middle	3.5	30.00	30.00		7.75	7.75		29.14	29.14		78.5	77.7		5.06	5.00		3.98	3.97		4	<u> </u>
14/9/2016	16:45	Fine	Middle	4.0	28.40	28.40	28.40	8.07	8.07	8.09	29.40	29.40	29.40	111.0	111.6	361.1	7.32	7.40	7.34	8.25	8.25	8.25	8	8.50
	16:47 17:10		Middle Middle	4.0 3.5	28.40	28.40 28.30		8.11	8.11 7.88		29.40 30.55	29.40 30.55		111.1	1110.8 80.4		7.32	7.30 5.28		8.24 7.79	8.26		9	<u> </u>
17/9/2016	17:10	Fine	Middle	3.5	28.30 28.30	28.30	28.30	7.88 7.89	7.89	7.89	30.55	30.55	30.55	80.6 80.8	80.9	80.7	5.30 5.31	5.26	5.30	7.79	7.74	7.63	6	6.00
	9:15		Middle	4.0	28.10	28.10		7.88	7.88		31.03	31.03		81.0	82.1		5.32	5.40		9.80	9.84		6	
19/9/2016	9:17	Fine	Middle	4.0	28.20	28.20	28.15	7.89	7.89	7.89	31.02	31.02	31.03	82.1	82.5	81.9	5.40	5.42	5.39	9.82	9.68	9.79	7	6.50
	9:50		Middle	4.0	27.70	27.70		7.91	7.91		31.34	31.34		81.1	81.5		5.36	5.38		10.45	10.36		14	+
21/9/2016	9:52	Fine	Middle	4.0	27.70	27.70	27.70	7.94	7.94	7.93	31.35	31.35	31.35	82.1	80.5	81.3	5.43	5.32	5.37	10.27	10.27	<u>10.34</u>	12	13.00
	11:45		Middle	4.0	28.00	28.00		7.92	7.92		31.54	31.54		84.9	86.5		5.57	5.68		7.83	7.84		8	<u> </u>
23/9/2016	11:47	Fine	Middle	4.0	28.00	28.00	28.00	7.93	7.93	7.93	31.55	31.55	31.55	85.5	85.8	85.7	5.61	5.63	5.62	7.87	7.87	7.85	7	7.50
	16:25		Middle	4.0	28.50	28.50		7.97	7.97		31.52	31.52		84.9	86.1		5.53	5.61		8.25	8.30		8	+
26/9/2016	16:27	Fine	Middle	4.0	28.50	28.50	28.50	7.97	7.97	7.97	31.53	31.53	31.53	86.1	86.6	85.9	5.61	5.64	5.60	8.50	8.40	8.36	9	8.50

am Water Monitoring Result at WSD19 - Sheung Wan Mid-Flood Tide

Date	Time	Weater Condition	Samplin	ig Depth	Wat	er Temp	perature		pН			Salini		D	O Satur	ation		DO ma/L			Turbid NTU			led Solids
		Condition	n	n	Va	lue	Average	Va	- ilue	Average	Va	ppt ilue	Average	Va	% alue	Average	Va	Iue Iue	Average	Va	alue	Average	Value	g/L Average
29/8/2016	15:51	Claudu	Middle	3.5	27.20	27.20	27.20	7.83	7.83	7.85	30.89	30.89	30.88	72.6	72.6	73.4	4.85	4.93	4.91	9.56	9.72	9.78	13	13.00
29/6/2016	15:53	Cloudy	Middle	3.5	27.20	27.20	21.20	7.86	7.86	7.00	30.87	30.87	30.00	74.9	73.4	73.4	4.95	4.91	4.91	9.89	9.96	9.70	13	13.00
31/8/2016	16:00	Fine	Middle	3.5	28.10	28.10	28.20	7.91	7.91	7.89	30.58	30.58	30.58	75.8	77.1	76.7	4.99	5.07	5.05	8.58	8.32	8.45	9	9.00
31/6/2016	16:02	Fine	Middle	3.5	28.30	28.30	20.20	7.87	7.87	7.09	30.57	30.57	30.56	76.9	76.9	70.7	5.06	5.06	5.05	8.49	8.40	0.40	9	9.00
2/9/2016	20:55	Cloudy	Middle	3.5	27.60	27.60	27.65	7.77	7.77	7.77	30.26	30.26	30.27	62.4	63.1	63.0	4.15	4.20	4.19	12.05	11.99	12.01	14	14.00
2/9/2010	20:56	Cloudy	Middle	3.5	27.70	27.70	27.05	7.77	7.77	1.11	30.27	30.27	30.27	63.2	63.1	05.0	4.20	4.19	4.19	12.01	11.98	<u>12.01</u>	14	14.00
5/9/2016	7:55	Cloudy	Middle	4.0	27.40	27.40	27.45	7.85	7.85	7.85	31.12	31.12	31.12	82.8	82.9	82.1	5.50	5.51	5.46	10.47	10.46	10.44	9	9.50
5/9/2010	7:57	Cloudy	Middle	4.0	27.50	27.50	27.43	7.85	7.85	7.00	31.12	31.12	31.12	82.2	80.6	02.1	5.46	5.36	5.40	10.44	10.39	10.44	10	9.50
7/9/2016	9:33	Cloudy	Middle	3.5	27.10	27.10	27.10	7.84	7.84	7.85	30.33	30.33	30.34	63.3	63.9	63.8	4.25	4.29	4.29	11.78	11.82	<u>11.79</u>	13	12.50
779/2010	9:35	Cloudy	Middle	3.5	27.10	27.10	27.10	7.85	7.85	7.00	30.35	30.35	30.34	64.2	63.8	05.0	4.31	4.29	4.29	11.77	11.77	11./3	12	12.30
10/9/2016	2:19	Cloudy	Middle	3.5	27.20	27.20	27.20	7.49	7.49	7.53	29.10	29.10	29.11	75.1	75.2	75.2	5.07	5.08	5.08	3.26	3.38	3.37	3	2.50
10/9/2010	2:20	Cloudy	Middle	3.5	27.20	27.20	21.20	7.56	7.56	7.55	29.11	29.11	29.11	75.5	75.0	15.2	5.10	5.06	5.06	3.40	3.43	3.37	2	2.50
12/9/2016	15:48	Fine	Middle	3.5	29.40	29.40	29.65	7.73	7.73	7.74	29.61	29.61	29.59	86.7	87.8	86.5	5.61	5.67	5.59	3.39	3.38	3.38	3	3.00
12/9/2010	15:50	Fille	Middle	3.5	29.90	29.90	29.05	7.74	7.74	7.74	29.56	29.56	29.39	86.7	84.8	60.5	5.60	5.47	5.59	3.37	3.37	3.30	3	3.00
14/9/2016	15:30	Fine	Middle	3.5	28.80	28.80	28.85	8.27	8.27	8.25	29.24	29.24	29.25	106.6	107.2	105.2	6.99	7.03	6.90	7.10	7.10	7.10	9	8.50
14/9/2010	15:32	Time	Middle	3.5	28.90	28.90	20.00	8.23	8.23	0.23	29.25	29.25	29.25	103.2	103.6	105.2	6.77	6.79	0.90	7.10	7.09	7.10	8	0.00
17/9/2016	16:11	Fine	Middle	3.5	29.10	29.10	29.25	7.93	7.93	7.91	30.50	30.50	30.48	89.9	89.5	88.6	5.82	5.79	5.73	9.52	9.52	9.52	6	6.50
17/9/2010	16:13	Time	Middle	3.5	29.40	29.40	29.23	7.88	7.88	7.81	30.46	30.46	30.40	87.5	87.6	00.0	5.66	5.66	5.75	9.52	9.52	9.52	7	0.50
19/9/2016	7:30	Fine	Middle	4.0	27.80	27.80	28.00	7.92	7.92	7.92	30.82	30.82	30.82	80.8	75.8	79.4	5.54	5.00	5.47	9.99	9.99	9.99	14	13.00
19/9/2010	7:32	Time	Middle	4.0	28.20	28.20	20.00	7.92	7.92	1.52	30.82	30.82	30.02	76.7	84.3	79.4	5.12	6.23	5.47	9.99	9.99	9.99	12	13.00
21/9/2016	8:30	Fine	Middle	3.5	27.30	27.30	27.25	7.89	7.89	7.91	31.25	31.25	31.26	79.4	79.8	79.9	5.29	5.32	5.32	13.11	13.11	13.11	16	16.00
21/9/2010	8:32	Time	Middle	3.5	27.20	27.20	21.25	7.93	7.93	7.81	31.26	31.26	51.20	80.1	80.1	19.9	5.34	5.34	5.52	13.12	13.10	<u>19711</u>	16	10.00
23/9/2016	9:30	Fine	Middle	3.5	28.00	28.00	28.05	7.86	7.86	7.88	31.27	31.27	31.27	92.4	91.3	91.5	6.07	6.00	6.01	15.42	15.57	15.45	15	14.50
20/0/2010	9:32	T IIIC	Middle	3.5	28.10	28.10	20.00	7.89	7.89	1.00	31.27	31.27	01.21	91.9	90.2	91.0	6.04	5.93	0.01	15.39	15.41	<u></u>	14	14.00
26/9/2016	14:50	Fine	Middle	3.5	29.10	29.10	29.20	7.83	7.83	7.85	31.57	31.57	31.57	94.4	93.6	93.5	6.07	6.02	6.02	15.29	15.11	15.14	14	15.00
20/8/2010	14:52		Middle	3.5	29.30	29.30	23.20	7.87	7.87	1.00	31.56	31.56	51.57	93.1	93.0	33.5	5.99	5.98	0.02	15.08	15.09	10.14	16	15.00



Water Monitoring Result at C7 - Windsor House

Mid-Ebb Tide

Date	Time	Weater	Samplin	ig Depth	Wat	er Temp	perature		pН			Salinit	y	D	O Satur	ation		DO			Turbid NTL			led Solids
		Condition	r	n	Va	lue	Average	Va	- ilue	Average	Va	ppt ilue	Average	Va	ilue %	Average	Va	mg/L lue	Average	Va	alue	Average	mı Value	g/∟ Average
20/8/2016	11:54	Claudu	Middle	-	27.80	27.80	07.75	7.74	7.74	7 75	30.28	30.28	20.20	67.0	68.2	69.4	4.45	4.53	4.54	3.47	3.48	0.47	3	4.00
29/8/2016	11:56	Cloudy	Middle	-	27.70	27.70	27.75	7.76	7.76	7.75	30.30	30.30	30.29	68.8	69.4	68.4	4.57	4.61	4.04	3.49	3.45	3.47	5	4.00
31/8/2016	11:45	Fine	Middle	-	28.30	28.30	28.35	7.88	7.88	7.87	30.85	30.85	30.86	88.6	87.9	88.7	5.81	5.77	5.82	5.85	5.86	5.87	10	9.50
51/6/2010	11:47	Fille	Middle	-	28.40	28.40	26.35	7.86	7.86	1.07	30.87	30.87	30.80	89.0	89.1	00.7	5.84	5.84	5.62	5.88	5.89	5.67	9	9.50
2/9/2016	11:45	Cloudy	Middle	-	28.10	28.10	28.15	7.71	7.71	7.72	29.78	29.78	29.78	84.2	84.7	84.0	5.57	5.60	5.56	4.55	4.50	4.45	4	4.00
2/9/2010	11:47	Cloudy	Middle	-	28.20	28.20	20.13	7.73	7.73	1.12	29.77	29.77	29.70	84.0	83.2	04.0	5.56	5.50	5.50	4.44	4.31	4.43	4	4.00
5/9/2016	16:15	Rainy	Middle	-	27.10	27.10	27.10	7.76	7.76	7.77	30.22	30.22	30.22	81.8	81.8	82.1	5.49	5.49	5.51	9.00	8.97	9.05	9	9.50
0/0/2010	16:17	runy	Middle	-	27.10	27.10	27.10	7.78	7.78		30.22	30.22	00.22	82.4	82.3	02.1	5.53	5.53	0.01	9.13	9.10	0.00	10	0.00
7/9/2016	17:43	Cloudy	Middle	-	27.00	27.00	27.00	7.72	7.72	7.73	29.83	29.83	29.84	80.0	80.2	79.9	5.39	5.42	5.39	5.90	5.99	5.96	6	7.00
	17:45		Middle	-	27.00	27.00		7.73	7.73		29.84	29.84		79.3	80.2		5.35	5.41		5.94	5.99		8	
9/9/2016	3:27	Cloudy	Middle	-	27.30	27.30	27.30	7.75	7.75	7.64	29.88	29.88	29.81	67.5	67.4	66.4	4.55	4.52	4.46	11.26	11.30	11.21	6	6.50
	3:28		Middle	-	27.30	27.30		7.53	7.53		29.89	29.59		65.4	65.1		4.38	4.37		11.18	11.10		7	
12/9/2016	11:05	Fine	Middle	-	29.20	29.20	29.25	7.61	7.61	7.63	28.93	28.93	28.93	90.0	90.0	90.0	5.88	5.87	5.88	8.64	8.81	8.75	3	3.50
	11:07		Middle	-	29.30	29.30		7.64	7.64		28.92	28.92		90.0	90.1		5.87	5.88		8.83	8.73		4	
14/9/2016	11:30	Fine	Middle	-	28.90	28.90	29.00	7.83	7.83	7.82	29.69	29.69	29.69	90.2	94.4	93.1	5.88	6.15	6.06	5.80	5.70	5.68	8	7.00
	11:32		Middle	-	29.10	29.10		7.81	7.81		29.69	29.69		94.2	93.5		6.14	6.08		5.62	5.59		6	
17/9/2016	11:45	Fine	Middle	-	28.80	28.80	28.85	7.61	7.61	7.66	30.76	30.76	30.76	93.1	93.0	92.0	6.05	6.04	5.97	8.80	8.89	8.78	11	10.00
	11:47		Middle	-	28.90	28.90		7.70	7.70		30.76	30.76		90.9	90.9		5.90	5.90		8.73	8.71		9	
19/9/2016	15:20	Fine	Middle	-	29.30	29.30	29.35	7.73	7.73	7.75	30.63	30.63	30.63	90.5	90.0	90.7	5.84	5.81	5.85	5.46	5.42	5.44	6	5.00
	15:27		Middle	-	29.40	29.40		7.77	7.77		30.62	30.62		91.3	90.8		5.89	5.85		5.43	5.45		4	<u> </u>
21/9/2016	15:50	Fine	Middle	-	29.20	29.20	29.35	7.83	7.83	7.85	31.00	31.00	31.00	89.5	89.8	89.1	5.76	5.78	5.74	4.92	4.78	4.84	7	8.00
	15:52		Middle	-	29.50	29.50		7.86	7.86		30.99	30.99		88.6	88.6		5.70	5.70		4.75	4.89		9	<u> </u>
23/9/2016	2:30	Cloudy	Middle	-	27.30	27.30	27.25	7.87	7.87	7.87	31.80	31.80	31.81	76.3	76.4	76.6	5.07	5.09	5.10	5.93	5.99	5.84	<2	<2
	2:31		Middle	-	27.20	27.20		7.87	7.87		31.81	31.81		76.0	77.7		5.06	5.16		5.77	5.68		<2	<u> </u>
26/9/2016	11:10	Fine	Middle	-	29.30	29.30	29.30	7.85	7.85	7.86	31.57	31.57	31.58	91.3	91.6	91.4	5.87	5.89	5.87	6.97	6.98	6.97	4	5.00
	11:12		Middle	-	29.30	29.30		7.87	7.87		31.58	31.58		91.2	91.3		5.86	5.87		6.93	6.98		6	

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Water Monitoring Result at C1 - HKCEC

Mid-Ebb Tide

Date	Time	Weater	Samplin	g Depth	Wat	er Temp	oerature		pН			Salini	Ŋ	D	O Satur	ation		DO			Turbid			led Solids
		Condition	r	n	Va	lue	Average	Va	- alue	Average	Va	ppt lue	Average	Va	% alue	Average	Va	mg/L lue	Average	Va	NTU alue	Average	mı Value	g/∟ Average
29/8/2016	11:11	Cloudy	Middle	2.5	27.10	27.10	27.15	7.93	7.93	7.94	30.23	30.23	30.29	79.0	77.2	77.1	5.30	5.17	5.17	3.00	3.00	3.00	4	4.00
29/8/2016	11:13	Cloudy	Middle	2.5	27.20	27.20	27.15	7.94	7.94	7.94	30.34	30.34	30.29	76.3	75.9	77.1	5.11	5.08	5.17	3.00	2.98	3.00	4	4.00
31/8/2016	10:50	Fine	Middle	3.5	27.50	27.50	27.50	7.92	7.92	7.92	31.10	31.10	31.10	87.2	86.3	86.0	5.79	5.73	5.70	7.12	7.20	7.15	7	7.00
31/0/2010	10:52	Fille	Middle	3.5	27.50	27.50	27.50	7.92	7.92	7.92	31.10	31.10	31.10	84.9	85.4	80.0	5.63	5.66	5.70	7.16	7.11	7.15	7	7.00
2/9/2016	14:50	Cloudy	Middle	2.5	27.60	27.60	27.60	7.86	7.86	7.86	29.65	29.65	29.65	86.4	87.1	87.0	5.77	5.82	5.81	7.17	7.06	7.12	6	6.00
2/9/2010	14:52	Cloudy	Middle	2.5	27.60	27.60	27.00	7.86	7.86	7.00	29.65	29.65	29.00	87.0	87.6	87.0	5.81	5.85	5.61	7.10	7.15	7.12	6	0.00
5/9/2016	17:27	Rainy	Middle	2.5	27.20	27.20	27.20	7.84	7.84	7.84	29.72	29.72	29.72	80.2	79.5	79.0	5.39	5.34	5.31	5.05	5.07	5.06	6	6.00
3/9/2010	17:29	Railly	Middle	2.5	27.20	27.20	21.20	7.84	7.84	7.04	29.72	29.72	29.12	78.8	77.6	79.0	5.30	5.22	5.51	5.07	5.06	5.00	6	0.00
7/9/2016	18:25	Cloudy	Middle	2.5	27.00	27.00	27.00	7.83	7.83	7.83	30.01	30.01	30.02	72.6	71.2	71.8	4.89	4.80	4.84	7.66	7.57	7.60	7	6.50
113/2010	18:27	Cloudy	Middle	2.5	27.00	27.00	27.00	7.83	7.83	7.00	30.02	30.02	30.02	70.4	73.0	71.0	4.74	4.92	4.04	7.57	7.58	7.00	6	0.00
9/9/2016	5:40	Cloudy	Middle	3.0	27.20	27.20	27.20	7.70	7.70	7.71	29.76	29.76	29.76	63.0	63.6	63.1	4.24	4.27	4.24	4.72	4.67	4.58	9	9.50
3/3/2010	5:41	Cloudy	Middle	3.0	27.20	27.20	21.20	7.71	7.71	7.71	29.76	29.76	23.70	62.9	62.9	00.1	4.23	4.23	4.24	4.49	4.42	4.00	10	3.30
12/9/2016	10:10	Fine	Middle	3.0	28.10	28.10	28.15	7.80	7.80	7.80	29.15	29.15	29.15	91.7	91.4	91.4	6.09	6.06	6.07	3.59	3.58	3.58	3	3.00
12/0/2010	10:12	T IIIO	Middle	3.0	28.20	28.20	20.10	7.80	7.80	1.00	29.15	29.15	20.10	91.3	91.3	01.4	6.06	6.06	0.07	3.58	3.58	0.00	3	0.00
14/9/2016	13:05	Fine	Middle	2.5	28.60	28.60	28.60	8.27	8.27	8.27	28.67	28.67	28.63	113.1	113.0	112.2	7.47	7.47	7.42	5.75	5.81	5.82	8	8.00
	13:07		Middle	2.5	28.60	28.60	20.00	8.27	8.27	0.21	28.58	28.58	20.00	111.4	111.1	112.2	7.37	7.35	2	5.86	5.87	0.02	8	0.00
17/9/2016	10:50	Fine	Middle	3.0	28.00	28.00	28.00	7.97	7.97	7.97	31.07	31.07	31.07	89.6	91.7	90.5	5.90	6.03	5.95	8.06	8.08	8.11	8	8.50
	10:52		Middle	3.0	28.00	28.00	20.00	7.97	7.97		31.07	31.07	0	90.4	90.2	00.0	5.92	5.94	0.00	8.13	8.18	0.111	9	0.00
19/9/2016	14:45	Fine	Middle	3.0	28.50	28.50	28.50	7.89	7.89	7.89	30.84	30.84	30.84	86.4	87.6	87.1	5.65	5.73	5.70	9.12	9.12	9.11	10	10.00
13/3/2010	14:47	Tine	Middle	3.0	28.50	28.50	20.00	7.89	7.89	1.00	30.83	30.84	30.04	87.4	86.8	07.1	5.72	5.68	5.70	9.11	9.10	0.11	10	10.00
21/9/2016	16:49	Fine	Middle	2.5	27.80	27.80	27.80	7.95	7.95	7.95	31.45	31.45	31.45	93.3	93.5	93.3	6.15	6.17	6.16	5.00	4.95	5.00	7	6.50
2110/2010	16:51	T IIIO	Middle	2.5	27.80	27.80	21.00	7.95	7.95	1.00	31.45	31.45	01.40	93.9	92.6	00.0	6.20	6.11	0.10	4.99	5.05	0.00	6	0.00
23/9/2016	5:50	Cloudy	Middle	3.0	27.20	27.20	27.20	7.83	7.83	7.84	31.70	31.70	31.70	70.2	71.4	71.0	4.67	4.75	4.72	4.82	4.62	4.66	6	5.50
20,0,2010	5:51	0.0003	Middle	3.0	27.20	27.20	220	7.86	7.86		31.70	31.70	00	70.7	71.7		4.70	4.77		4.61	4.57		5	0.00
26/9/2016	10:20	Fine	Middle	3.0	28.30	28.30	28.30	7.95	7.95	7.95	31.59	31.59	31.58	92.1	93.0	92.3	6.01	6.07	6.03	7.93	7.97	7.97	4	4.50
20/0/2010	10:22	1 110	Middle	3.0	28.30	28.30	20.00	7.95	7.95	7.00	31.57	31.57	01.00	92.2	92.0	02.0	6.02	6.01	0.00	7.99	7.98	1.01	5	4.00



Water Monitoring Result at P1 - HKCEC Phase I

Mid-Ebb Tide

Date	Time	Weater	Samplin	ig Depth	Wat	er Temp	erature		pН			Salinit	ty	D	O Satur	ation		DO			Turbid NTU		Suspend	
		Condition	r	n	Va	lue	Average	Va	- ilue	Average	Va	ppt alue	Average	Va	% ilue	Average	Va	mg/L lue	Average	Va	alue	Average	mg Value	g/L Average
00/0/0040	10:55	<u>Olaudu</u>	Middle	2.5	27.20	27.20	07.45	7.91	7.91	7.00	30.48	30.48	00.40	78.8	81.4	00.0	5.29	5.50	5.40	3.98	3.98	0.01	4	1.00
29/8/2016	10:57	Cloudy	Middle	2.5	27.10	27.10	27.15	7.92	7.92	7.92	30.48	30.48	30.48	82.5	80.3	80.8	5.54	5.39	5.43	3.85	3.82	3.91	4	4.00
31/8/2016	10:30	Fine	Middle	3.5	28.00	28.00	28.05	7.90	7.90	7.90	31.15	31.15	31.16	91.1	92.5	91.7	5.99	6.09	6.03	6.74	6.55	6.57	8	8.00
51/6/2010	10:32	Fille	Middle	3.5	28.10	28.10	26.05	7.90	7.90	7.90	31.16	31.16	31.10	91.3	91.9	91.7	6.00	6.04	0.03	6.56	6.43	0.57	8	8.00
2/9/2016	14:30	Cloudy	Middle	2.5	27.50	27.50	27.55	7.87	7.87	7.87	29.80	29.80	29.80	92.2	92.4	92.4	6.16	6.17	6.17	5.83	5.88	5.94	5	5.00
2/3/2010	14:32	Cloudy	Middle	2.5	27.60	27.60	21.00	7.86	7.86	1.01	29.80	29.80	23.00	92.6	92.5	52.4	6.18	6.18	0.17	6.01	6.04	0.04	5	0.00
5/9/2016	17:11	Rainy	Middle	2.5	26.80	26.80	26.80	7.61	7.61	7.67	29.84	29.84	29.84	97.7	97.3	96.8	6.60	6.58	6.54	6.35	6.34	6.32	4	4.50
0/0/2010	17:13	Tany	Middle	2.5	26.80	26.80	20.00	7.72	7.72	1.01	29.84	29.84	20.04	97.1	95.0	00.0	6.57	6.42	0.04	6.30	6.27	0.02	5	4.00
7/9/2016	18:09	Cloudy	Middle	2.5	26.80	26.80	26.80	7.78	7.78	7.79	30.19	30.19	30.19	72.2	72.7	72.7	4.87	4.90	4.90	6.23	6.23	6.23	6	5.00
	18:11	eleady	Middle	2.5	26.80	26.80	20.00	7.79	7.79		30.19	30.19	00.10	73.1	72.6		4.93	4.90		6.24	6.23	0.20	4	0.00
9/9/2016	3:45	Cloudy	Middle	3.0	27.10	27.10	27.15	7.76	7.76	7.76	29.74	29.74	29.74	66.1	66.6	65.7	4.45	4.48	4.42	3.73	3.71	3.76	8	7.00
0,0,2010	3:46	eleady	Middle	3.0	27.20	27.20	21.10	7.76	7.76		29.74	29.74	20111	65.4	64.7		4.40	4.36	2	3.78	3.82	0.10	6	1.00
12/9/2016	9:50	Fine	Middle	3.0	28.40	28.40	28.50	7.78	7.78	7.79	29.07	29.07	29.07	96.7	95.8	95.6	6.39	6.32	6.31	3.27	3.31	3.34	4	3.00
	9:52		Middle	3.0	28.60	28.60		7.79	7.79		29.07	29.07		95.5	94.2		6.32	6.22		3.35	3.41		2	
14/9/2016	12:45	Fine	Middle	2.5	28.90	28.90	29.05	7.91	7.91	7.95	28.84	28.84	28.84	117.1	117.7	117.7	7.67	7.70	7.70	4.41	4.40	4.41	4	4.50
	12:47		Middle	2.5	29.20	29.20		7.99	7.99		28.83	28.83		117.1	118.8		7.67	7.77		4.40	4.44		5	
17/9/2016	10:30	Fine	Middle	3.0	28.60	28.60	28.70	7.91	7.91	7.92	31.13	31.13	31.13	93.2	94.1	93.2	6.06	6.12	6.06	8.37	8.27	8.25	7	7.00
	10:32		Middle	3.0	28.80	28.80		7.93	7.93		31.13	31.13		93.8	91.7		6.09	5.96		8.20	8.15		7	
19/9/2016	14:25	Fine	Middle	3.0	28.80	28.80	29.05	7.77	7.77	7.80	30.90	30.90	30.90	96.4	96.1	95.6	6.23	6.21	6.17	9.65	9.65	9.62	8	9.00
10/0/2010	14:27		Middle	3.0	29.30	29.30	20.00	7.83	7.83	1.00	30.89	30.89	00.00	95.0	94.7	00.0	6.14	6.11	0.11	9.60	9.57	0.02	10	0.00
21/9/2016	16:33	Fine	Middle	2.5	28.10	28.10	28.20	7.81	7.81	7.85	31.39	31.39	31.38	96.4	92.6	93.2	6.31	6.06	6.10	5.81	5.87	5.88	5	4.50
	16:35		Middle	2.5	28.30	28.30		7.88	7.88		31.36	31.36		91.5	92.1		5.99	6.03		5.92	5.91		4	
23/9/2016	5:12	Cloudy	Middle	3.0	26.90	26.90	26.90	7.92	7.92	7.93	31.92	31.92	31.92	70.8	71.2	71.3	4.73	4.75	4.76	4.96	4.94	4.82	5	5.00
	5:13		Middle	3.0	26.90	26.90		7.93	7.93		31.92	31.92		71.6	71.7		4.78	4.77		4.73	4.64		5	
26/9/2016	10:00	Fine	Middle	3.0	28.90	28.90	28.90	7.89	7.89	7.90	31.72	31.72	31.72	93.1	94.1	92.9	6.02	6.08	6.01	8.01	8.02	8.01	6	6.00
	10:02		Middle	3.0	28.90	28.90		7.91	7.91		31.72	31.72		91.6	92.9		5.92	6.01		8.00	7.99		6	

am Water Monitoring Result at P3 - APA

Mid-Ebb Tide

Date	Time	Weater	Samplin	ig Depth	Wate	er Temp	erature		pН			Salinit	у	D	O Satur	ation		DO			Turbid NTU	ity		led Solids
		Condition	r	n	Va	lue	Average	Va	- lue	Average	Va	ppt ilue	Average	Va	% lue	Average	Va	mg/L lue	Average	Va	ilue	Average	mı Value	g/∟ Average
29/8/2016	10:59	Cloudy	Middle	2.5	26.90	26.90	26.90	7.93	7.93	7.93	30.41	30.41	30.41	82.7	83.0	82.8	5.57	5.59	5.58	4.05	3.99	3.98	2	2.50
	11:01		Middle	2.5	26.90	26.90		7.93	7.93		30.40	30.40		84.5	80.9		5.69	5.45		3.94	3.95		3	
31/8/2016	10:35	Fine	Middle	3.5	27.60	27.60	27.60	7.91	7.91	7.91	31.14	31.14	31.14	88.6	88.8	88.3	5.87	5.89	5.85	6.38	6.17	6.16	8	8.00
	10:37		Middle	3.5	27.60	27.60		7.91	7.91		31.14	31.14		88.2	87.4		5.84	5.79		6.03	6.04		8	
2/9/2016	14:35	Cloudy	Middle	2.5	27.60	27.60	27.60	7.86	7.86	7.86	29.67	29.67	29.70	87.7	87.7	87.7	5.84	5.84	5.85	6.02	6.02	6.02	5	5.00
	14:37	,	Middle	2.5	27.60	27.60		7.86	7.86		29.72	29.72		87.9	87.3		5.88	5.82		6.01	6.01		5	
5/9/2016	17:15	Rainy	Middle	2.5	26.90	26.90	26.90	7.76	7.76	7.77	29.94	29.94	29.95	80.6	80.1	78.2	5.43	5.40	5.33	5.69	5.68	5.68	5	5.00
	17:17		Middle	2.5	26.90	26.90		7.78	7.78		29.95	29.95		77.4	74.7		5.43	5.04		5.69	5.66		5	
7/9/2016	18:13	Cloudy	Middle	2.5	26.80	26.80	26.80	7.80	7.80	7.81	30.15	30.15	30.18	81.3	80.1	81.0	5.49	5.40	5.47	6.50	6.62	6.53	4	4.50
	18:15	- ,	Middle	2.5	26.80	26.80		7.82	7.82		30.20	30.20		81.6	81.0		5.51	5.47	-	6.53	6.45		5	
9/9/2016	3:50	Cloudy	Middle	3.0	27.20	27.20	27.20	7.74	7.74	7.74	29.76	29.76	29.76	62.3	63.3	62.6	4.19	4.25	4.20	3.94	3.86	3.91	6	5.50
	3:51		Middle	3.0	27.20	27.20		7.74	7.74		29.76	29.76		62.1	62.5		4.16	4.21		3.90	3.95		5	
12/9/2016	9:55	Fine	Middle	3.0	28.20	28.20	28.25	7.79	7.79	7.79	29.15	29.15	29.15	90.9	91.8	91.1	6.02	6.12	6.04	3.53	3.52	3.53	4	3.00
	9:57		Middle	3.0	28.30	28.30		7.79	7.79		29.15	29.15		90.4	91.2		5.99	6.04		3.54	3.53		2	
14/9/2016	12:50	Fine	Middle	2.5	28.60	28.60	28.65	8.17	8.17	8.19	28.25	28.25	28.50	110.0	105.5	107.3	7.26	6.96	7.08	5.35	5.35	5.30	4	4.00
	12:52		Middle	2.5	28.70	28.70		8.21	8.21		28.75	28.75		106.4	107.3		7.02	7.08		5.26	5.25		4	
17/9/2016	10:35	Fine	Middle	3.0	28.20	28.20	28.25	7.95	7.95	7.96	31.07	31.07	31.07	95.3	94.5	95.3	6.25	6.20	6.25	6.09	6.14	6.14	7	8.00
	10:37		Middle	3.0	28.30	28.30		7.96	7.96		31.07	31.07		95.9	95.6		6.29	6.27		6.16	6.16		9	
19/9/2016	14:30	Fine	Middle	3.0	28.40	28.40	28.50	7.85	7.85	7.86	30.88	30.88	30.88	88.8	89.6	89.6	5.81	5.87	5.86	9.55	9.55	9.53	8	7.00
	14:32		Middle	3.0	28.60	28.60		7.87	7.87		30.87	30.87		90.9	89.2		5.94	5.83		9.47	9.53		6	
21/9/2016	16:37	Fine	Middle	2.5	27.80	27.80	27.80	7.91	7.91	7.92	31.37	31.37	31.37	97.0	97.3	96.2	6.40	6.41	6.34	5.22	5.43	5.34	6	5.00
	16:39		Middle	2.5	27.80	27.80		7.92	7.92		31.37	31.37		96.4	94.0		6.35	6.20		5.43	5.29		4	
23/9/2016	5:19	Cloudy	Middle	3.0	27.00	27.00	26.98	7.96	7.96	7.97	31.96	31.96	31.96	77.6	77.3	78.1	5.17	5.16	5.20	6.04	6.01	5.99	6	5.50
	5:20	-	Middle	3.0	26.90	27.00		7.97	7.97		31.96	31.96		79.2	78.2		5.28	5.20		5.98	5.93		5	
26/9/2016	10:05	Fine	Middle	3.0	28.60	28.60	28.65	7.92	7.92	7.93	31.59	31.59	31.59	90.0	90.5	90.6	5.85	5.88	5.89	7.93	7.91	7.95	6	5.00
	10:07		Middle	3.0	28.70	28.70		7.93	7.93		31.59	31.59		91.7	90.3		5.96	5.87		7.98	7.97		4	

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Water Monitoring Result at P4 - SOC

Mid-Ebb Tide

Date	Time	Weater Condition	Samplin	ig Depth	Wat	er Temp	erature		pH			Salinit ppt	y	D	O Satur %	ation		DO mg/L			Turbid NTU			led Solids q/L
		Condition	r	n	Va	lue	Average	Va	ilue -	Average	Va		Average	Va	lue	Average	Va		Average	Va	alue	Average	Value	g/∟ Average
29/8/2016	11:03	Cloudy	Middle	2.5	27.00	27.00	27.00	7.93	7.93	7.93	30.34	30.34	30.35	73.8	71.9	71.1	4.96	4.84	4.81	3.78	3.75	3.68	4	4.00
	11:05	-	Middle	2.5	27.00	27.00		7.93	7.93		30.35	30.35		70.0	68.8		4.79	4.63		3.60	3.57		4	
31/8/2016	10:40	Fine	Middle	3.5	27.50	27.50	27.50	7.91	7.91	7.92	31.13	31.13	31.13	83.7	84.6	84.4	5.56	5.61	5.60	6.99	6.97	6.97	7	7.00
	10:42		Middle	3.5	27.50	27.50		7.92	7.92		31.13	31.13		84.8	84.5	-	5.63	5.61		6.96	6.96		7	
2/9/2016	14:40	Cloudy	Middle	2.5	27.50	27.50	27.50	7.86	7.86	7.86	29.24	29.24	29.47	89.2	89.1	89.3	5.97	5.97	5.98	5.80	5.78	5.79	7	6.00
21012010	14:42	oloudy	Middle	2.5	27.50	27.50	21.00	7.86	7.86	1.00	29.69	29.69	20.41	89.2	89.8	00.0	5.97	6.01	0.00	5.79	5.79	0.10	5	0.00
5/9/2016	17:19	Rainy	Middle	2.5	27.00	27.00	27.00	7.80	7.80	7.81	30.31	30.11	30.16	77.6	76.7	76.7	5.22	5.16	5.16	6.99	6.85	6.92	7	6.00
3/3/2010	17:21	Rainy	Middle	2.5	27.00	27.00	27.00	7.81	7.81	7.01	30.11	30.11	50.10	74.5	77.9	10.1	5.02	5.25	5.10	6.95	6.90	0.02	5	0.00
7/9/2016	18:17	Cloudy	Middle	2.5	26.80	26.80	26.80	7.82	7.82	7.82	30.19	30.19	30.20	73.0	71.9	71.4	4.91	4.85	4.81	6.64	6.69	6.66	5	4.50
119/2010	18:19	Cloudy	Middle	2.5	26.80	26.80	20.00	7.82	7.82	7.02	30.20	30.20	30.20	71.1	69.4	71.4	4.80	4.68	4.01	6.66	6.65	0.00	4	4.50
9/9/2016	3:59	Cloudy	Middle	3.0	27.10	27.10	27.10	7.63	7.63	7.63	29.72	29.72	29.72	64.2	64.6	64.0	4.32	4.35	4.31	4.05	4.01	4.01	10	9.50
9/9/2010	4:00	Cloudy	Middle	3.0	27.10	27.10	27.10	7.63	7.63	7.05	29.72	29.72	29.12	63.9	63.3	04.0	4.30	4.26	4.51	3.97	3.99	4.01	9	9.50
12/9/2016	10:00	Fine	Middle	3.0	28.10	28.10	28.15	7.79	7.79	7.79	29.20	29.20	29.20	89.2	89.4	89.0	5.92	5.93	5.90	3.63	3.95	3.80	5	5.50
12/9/2010	10:02	1 lite	Middle	3.0	28.20	28.20	20.13	7.79	7.79	1.19	29.20	29.20	29.20	89.0	88.4	09.0	5.90	5.84	5.50	3.84	3.77	3.00	6	5.50
14/9/2016	12:55	Fine	Middle	2.5	28.70	28.70	28.65	8.24	8.24	8.25	28.78	28.78	28.77	109.1	109.1	108.1	7.20	7.20	7.30	5.30	5.32	5.33	2	2.50
14/9/2010	12:57	Fille	Middle	2.5	28.60	28.60	20.05	8.26	8.26	0.20	28.74	28.79	20.77	101.4	112.7	106.1	7.35	7.44	7.50	5.34	5.35	5.55	3	2.50
17/9/2016	10:40	Fino	Middle	3.0	28.10	28.10	28.10	7.96	7.96	7.96	31.07	31.07	31.07	92.5	94.4	93.7	6.08	6.20	7.01	5.87	5.86	5.85	7	6.50
17/9/2016	10:42	Fine	Middle	3.0	28.10	28.10	20.10	7.96	7.96	7.90	31.07	31.07	31.07	94.3	93.7	93.7	9.60	6.16	7.01	5.84	5.83	5.65	6	0.50
40/0/0040	14:35	Circ.	Middle	3.0	28.20	28.20	00.05	7.88	7.88	7.00	30.88	30.88	00.00	88.7	88.9	00.0	5.82	5.84	5.00	9.06	9.02	0.00	9	0.50
19/9/2016	14:37	Fine	Middle	3.0	28.30	28.30	28.25	7.89	7.89	7.89	30.87	30.87	30.88	87.9	87.7	88.3	5.77	5.76	5.80	9.00	8.99	9.02	10	9.50
04/0/0040	16:41	-:	Middle	2.5	27.80	27.80	07.00	7.93	7.93	7.00	31.30	31.30		90.0	89.2		5.94	5.89	5.00	5.45	5.21	5.00	4	1.00
21/9/2016	16:43	Fine	Middle	2.5	27.80	27.80	27.80	7.93	7.93	7.93	31.31	31.31	31.31	85.1	88.5	88.2	5.62	5.82	5.82	5.39	5.39	5.36	4	4.00
00/0/0040	5:25	Claude	Middle	3.0	26.80	26.80	26.00	7.98	7.98	7.00	31.93	31.93	21.00	77.6	78.8	70.4	5.18	5.26	E 00	6.58	6.48	6.50	6	6.00
23/9/2016	5:26	Cloudy	Middle	3.0	26.80	26.80	26.80	7.98	7.98	7.98	31.93	31.93	31.93	78.3	77.6	78.1	5.23	5.19	5.22	6.51	6.53	6.53	6	6.00
00/0/0040	10:10	Cia -	Middle	3.0	28.50	28.50	00.50	7.93	7.93	7.04	31.60	31.60	04.00	91.1	91.7	01.1	5.93	5.97	5.00	8.16	8.17	0.47	6	0.00
26/9/2016	10:12	Fine	Middle	3.0	28.50	28.50	28.50	7.94	7.94	7.94	31.60	31.60	31.60	90.7	90.9	91.1	5.90	5.92	5.93	8.18	8.18	8.17	6	6.00



Water Monitoring Result at P5 - WCT / RT / IT

Mid-Ebb Tide

Date	Time	Weater	Samplin	ng Depth	Wat	er Temp	erature		pН			Salinit	у	D	O Satur	ation		DO			Turbid NTU			led Solids
		Condition	r	n	Va	lue	Average	Va	- ilue	Average	Va	ppt alue	Average	Va	% lue	Average	Va	mg/L Ilue	Average	Va	ilue	Average	Value	g/L Average
29/8/2016	11:07	Cloudy	Middle	2.5	27.10	27.10	27.10	7.93	7.93	7.93	30.30	30.30	30.31	82.5	81.1	80.7	5.54	5.45	5.42	3.50	3.26	3.31	2	2.00
29/0/2010	11:09	Cloudy	Middle	2.5	27.10	27.10	27.10	7.93	7.93	7.95	30.32	30.32	30.31	80.4	78.8	00.7	5.40	5.29	0.42	3.25	3.23	3.31	2	2.00
31/8/2016	10:45	Fine	Middle	3.5	27.40	27.40	27.45	7.92	7.92	7.92	31.10	31.10	31.11	88.9	89.5	89.2	5.90	5.88	5.90	6.31	6.27	6.25	7	7.50
31/8/2010	10:47	T ine	Middle	3.5	27.50	27.50	27.45	7.92	7.92	1.52	31.11	31.11	51.11	89.0	89.3	09.2	5.91	5.92	5.90	6.20	6.23	0.25	8	7.50
2/9/2016	14:45	Cloudy	Middle	2.5	27.50	27.50	27.50	7.86	7.86	7.86	29.66	29.66	29.72	94.3	94.3	94.3	6.31	6.31	6.31	6.63	6.52	6.59	6	6.00
2/3/2010	14:47	Cloudy	Middle	2.5	27.50	27.50	27.50	7.86	7.86	7.00	29.78	29.78	23.72	94.9	93.5	34.5	6.35	6.26	0.51	6.50	6.70	0.00	6	0.00
5/9/2016	17:23	Rainy	Middle	2.5	27.20	27.20	27.15	7.83	7.83	7.84	29.71	29.77	29.76	72.7	76.4	74.8	4.89	5.14	5.03	6.18	6.17	6.17	5	4.50
3/9/2010	17:25	Kailiy	Middle	2.5	27.10	27.10	27.15	7.84	7.84	7.04	29.77	29.77	29.70	75.3	74.9	74.0	5.06	5.04	5.05	6.17	6.17	0.17	4	4.50
7/9/2016	18:21	Cloudy	Middle	2.5	26.80	26.80	26.80	7.83	7.83	7.83	30.08	30.08	30.10	75.4	74.0	74.2	5.09	4.99	5.02	7.45	7.45	7.42	6	5.50
110/2010	18:23	oloudy	Middle	2.5	26.80	26.80	20.00	7.83	7.83	1.00	30.11	30.11	00.10	74.4	73.0	14.2	5.02	4.96	0.02	7.45	7.32	1.42	5	0.00
9/9/2016	4:04	Cloudy	Middle	3.0	27.10	27.10	27.15	7.39	7.39	7.45	29.48	29.48	29.48	74.8	75.9	75.2	5.04	5.11	5.07	5.60	5.53	5.38	3	3.50
0/0/2010	4:05	oloudy	Middle	3.0	27.20	27.20	27.10	7.50	7.50	1.40	29.48	29.48	20.40	75.4	74.8	10.2	5.07	5.04	0.07	5.19	5.21	0.00	4	0.00
12/9/2016	10:05	Fine	Middle	3.0	28.20	28.20	28.20	7.80	7.80	7.80	29.16	29.16	29.16	92.5	92.0	92.3	6.14	6.10	6.13	3.20	3.23	3.22	3	3.00
.12,0,2010	10:07		Middle	3.0	28.20	28.20	20.20	7.80	7.80	1.00	29.15	29.15	20.10	92.2	92.6	02.0	6.12	6.14	0.10	3.23	3.22	0.22	3	0.00
14/9/2016	13:00	Fine	Middle	2.5	28.50	28.50	28.45	8.26	8.26	8.27	28.74	28.74	28.76	106.9	107.0	107.1	7.08	7.09	7.09	4.52	4.59	4.59	5	5.00
	13:02		Middle	2.5	28.40	28.40	20.10	8.27	8.27	0.21	28.77	28.77	20.10	107.2	107.2		7.10	7.10	1.00	4.62	4.64		5	0.00
17/9/2016	10:45	Fine	Middle	3.0	28.20	28.20	28.20	7.96	7.96	7.97	31.06	31.06	31.07	91.2	93.8	93.2	5.98	6.15	6.12	11.00	10.84	10.79	8	8.00
,	10:47		Middle	3.0	28.20	28.20		7.97	7.97		31.07	31.07		95.1	92.8		6.24	6.09		10.71	10.60		8	
19/9/2016	14:40	Fine	Middle	3.0	28.40	28.40	28.45	7.89	7.89	7.90	30.84	30.84	30.84	91.9	92.2	92.4	6.02	6.04	6.04	10.89	10.90	10.75	3	3.00
10,0,2010	14:42		Middle	3.0	28.50	28.50	20.10	7.90	7.90	1.00	30.84	30.84	00.01	92.4	92.9	02	6.04	6.07	0.01	10.72	10.48	10.110	3	0.00
21/9/2016	16:45	Fine	Middle	2.5	27.70	27.70	27.70	7.94	7.94	7.95	31.35	31.35	31.35	96.2	94.5	94.0	6.35	6.25	6.21	4.89	4.55	4.81	6	5.50
2.00.2010	16:47		Middle	2.5	27.70	27.70	20	7.95	7.95	1.00	31.35	31.35	01.00	92.6	92.8	0 110	6.12	6.13	0.21	4.90	4.88		5	0.00
23/9/2016	5:33	Cloudy	Middle	3.0	26.90	26.90	26.90	8.00	8.00	8.00	31.77	31.77	31.77	72.6	74.7	74.1	4.86	4.99	4.96	5.26	5.24	5.23	5	4.50
	5:34		Middle	3.0	26.90	26.90		7.99	7.99		31.77	31.77	-	75.0	74.2		5.03	4.96		5.22	5.20		4	
26/9/2016	10:15	Fine	Middle	3.0	28.70	28.70	28.55	7.94	7.94	7.95	31.58	31.58	31.58	92.7	93.3	92.8	6.04	6.08	6.04	6.89	6.87	6.88	6	6.50
	10:17		Middle	3.0	28.40	28.40		7.95	7.95		31.58	31.58		92.3	93.0		6.02	6.02		6.87	6.87		7	



Water Monitoring Result at RW21-P789 - Sun Hung Kai Centre Mid-Ebb Tide

Date	Time	Weater Condition	Samplin	g Depth	Wat	er Temp	oerature		pН			Salini ppt	ty	D	O Satur %	ation		DO mg/L			Turbid NTU			ded Solids a/L
		Condition	r	n	Va	lue	Average	Va	lue -	Average	Va	ilue	Average	Va	lue	Average	Va	lue	Average	Va	alue	Average		Average
29/8/2016	11:22	Cloudy	Middle	3.5	27.40	27.40	27.40	7.82	7.82	7.86	30.46	30.46	30.46	75.2	74.7	74.0	5.02	4.98	4.94	3.11	3.18	3.18	3	3.00
23/0/2010	11:24	Cloudy	Middle	3.5	27.40	27.40	27.40	7.90	7.90	7.00	30.46	30.46	30.40	74.0	72.2	74.0	4.93	4.82	4.94	3.20	3.23	5.10	3	3.00
31/8/2016	11:10	Fine	Middle	4.0	27.80	27.80	27.85	7.95	7.95	7.95	31.23	31.23	31.23	74.9	76.4	75.6	4.94	5.04	4.99	6.31	6.28	6.29	6	5.50
	11:12		Middle	4.0	27.90	27.90		7.94	7.94		31.23	31.23		76.1	75.0		5.02	4.95		6.27	6.29		5	
2/9/2016	11:00	Cloudy	Middle	3.5	28.60	28.60	28.15	7.79	7.79	7.80	30.47	30.47	30.47	77.0	77.4	77.1	5.03	5.06	5.04	6.62	6.53	6.52	6	5.50
	11:02		Middle	3.5	27.70	27.70		7.80	7.80		30.46	30.46		77.4	76.7		5.06	5.01		6.52	6.39		5	
5/9/2016	15:45	Rainy	Middle	3.5	26.60	26.66	26.62	7.82	7.82	7.83	29.53	29.53	29.53	87.7	87.3	87.2	5.96	5.93	5.87	4.64	4.61	4.60	4	4.00
	15:47		Middle	3.5	26.60	26.60		7.83	7.83		29.53	29.53		86.9	86.7		5.71	5.89		4.57	4.58		4	<u> </u>
7/9/2016	17:05	Cloudy	Middle	3.5	27.00	27.00	27.00	7.71	7.71	7.73	29.99	29.99	30.00	62.1	62.6	64.7	4.18	4.21	4.35	6.02	6.02	6.02	4	4.00
	17:07		Middle	3.5	27.00	27.00		7.74	7.74		30.00	30.00		66.1	67.8		4.45	4.56		6.02	6.02		4	<u> </u>
9/9/2016	2:55	Cloudy	Middle	3.5	27.10	27.10	27.15	7.63	7.63	7.64	30.41	30.41	30.41	63.1	62.7	63.5	4.22	4.20	4.25	5.26	5.28	5.30	2	2.50
	2:56		Middle	3.5	27.20	27.20		7.64	7.64		30.41	30.41		64.9	63.2		4.35	4.23		5.22	5.44		3	<u> </u>
12/9/2016	10:35	Fine	Middle	3.5	28.30	28.30	28.35	7.76	7.76	7.76	29.23	29.23	29.23	69.9	71.2	71.7	4.62	4.76	4.75	3.13	3.14	3.13	4	4.00
	10:37		Middle Middle	3.5	28.40 28.70	28.40		7.75	7.75 8.19		29.23 29.02	29.23 29.02		72.9	72.7 115.6		4.82 7.65	4.80 7.60		3.13	3.13 4.85		4 9	
14/9/2016	13:15 13:17	Fine	Middle	3.5 3.5	28.80	28.70 28.80	28.75	8.19 8.21	8.20	8.20	29.02	29.02	29.02	116.3 112.7	113.5	114.5	7.05	7.60	7.53	4.88 4.80	4.85	4.83	9 10	9.50
	11:00		Middle	4.0	28.50	28.50		7.93	7.93		31.24	31.24		85.9	85.9		5.60	5.60		6.26	6.26		5	<u></u>
17/9/2016	11:02	Fine	Middle	4.0	28.50	28.50	28.50	7.94	7.92	7.93	31.23	31.23	31.24	85.1	85.3	85.6	5.54	5.56	5.58	6.24	6.23	6.25	6	5.50
	15:00		Middle	3.5	29.20	29.20		7.85	7.85		31.00	31.00		85.5	86.4		5.52	5.58		6.52	6.63		5	
19/9/2016	15:02	Fine	Middle	3.5	29.30	29.30	29.25	7.87	7.87	7.86	31.01	31.01	31.01	85.2	85.6	85.7	5.50	5.52	5.53	6.65	6.67	6.62	6	5.50
	15:20		Middle	3.5	29.10	29.10		7.88	7.88		31.67	31.67		85.4	85.0		5.50	5.47		6.18	6.17		5	+
21/9/2016	15:22	Fine	Middle	3.5	29.30	29.30	29.20	7.92	7.92	7.90	31.66	31.66	31.67	84.9	85.0	85.1	5.46	5.46	5.47	6.17	6.12	6.16	4	4.50
	2:55		Middle	3.5	27.30	27.30		7.77	7.77		32.00	32.00		76.2	77.4		5.06	5.13		3.95	3.94		2	
23/9/2016	2:56	Cloudy	Middle	3.5	27.20	27.20	27.25	7.82	7.82	7.80	32.00	32.00	32.00	76.5	77.2	76.8	5.07	5.12	5.10	3.98	3.89	3.94	3	2.50
00/0/0040	10:35	F in a	Middle	4.0	28.90	28.90	00.00	7.92	7.92	7.00	31.73	31.73	04 70	90.7	91.0	00.0	5.86	5.88	5.00	7.34	7.36	7.00	3	0.50
26/9/2016	10:37	Fine	Middle	4.0	28.90	28.90	28.90	7.94	7.94	7.93	31.73	31.73	31.73	90.2	90.5	90.6	5.83	5.86	5.86	7.37	7.37	7.36	4	3.50

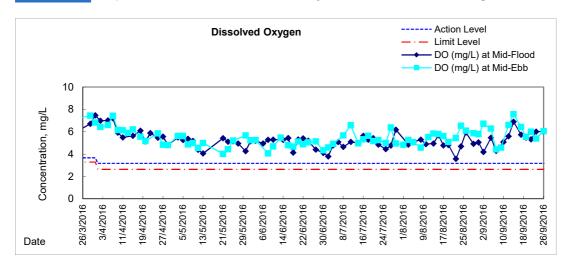


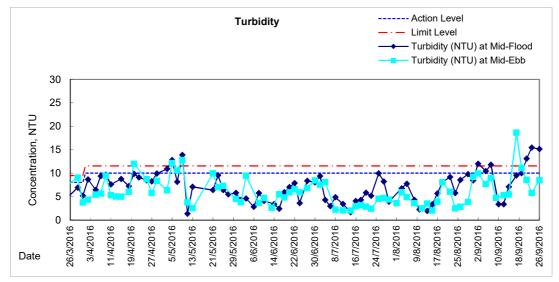
Water Monitoring Result at WSD19 - Sheung Wan Mid-Ebb Tide

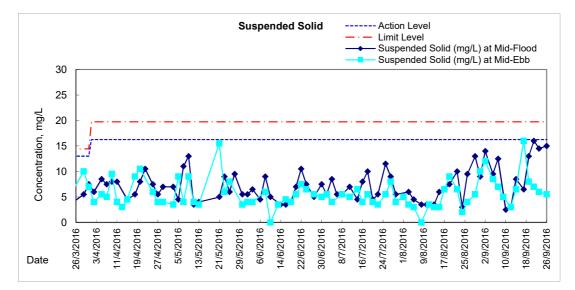
Date	Time	Weater	Samplin	g Depth	Wat	er Temp	oerature		pН			Salini	у	D	O Satur	ation		DO			Turbid NTU			led Solids
		Condition	n	n	Va	lue	Average	Va	- alue	Average	Va	ppt ilue	Average	Va	% Ilue	Average	Va	mg/L lue	Average	Va	alue	Average	mı Value	g/L Average
29/8/2016	9:49	Claudu	Middle	3.5	27.50	27.50	27.55	7.76	7.76	7.79	30.31	30.31	30.27	88.1	88.6	07.0	5.88	5.91	5.86	3.84	3.84	3.84	5	5.50
29/8/2016	9:51	Cloudy	Middle	3.5	27.60	27.60	27.55	7.82	7.82	1.19	30.22	30.22	30.27	88.1	86.4	87.8	5.88	5.76	0.00	3.84	3.84	3.04	6	5.50
31/8/2016	10:00	Fine	Middle	4.0	27.60	27.60	27.50	7.70	7.70	7.75	31.00	31.00	31.01	87.7	87.8	87.3	5.81	5.81	5.78	9.10	9.20	9.21	10	10.00
31/0/2010	10:02	Fille	Middle	4.0	27.00	27.80	27.50	7.80	7.80	1.15	31.01	31.01	31.01	86.9	86.8	07.3	5.75	5.74	5.76	9.23	9.30	9.21	10	10.00
2/9/2016	13:50	Cloudy	Middle	3.5	28.10	28.10	28.20	7.82	7.82	7.84	29.50	29.50	29.51	103.1	102.1	101.2	6.83	6.76	6.70	9.89	9.95	9.94	12	12.00
2/9/2010	13:52	Cloudy	Middle	3.5	28.30	28.30	20.20	7.85	7.85	7.04	29.51	29.51	29.51	99.8	99.9	101.2	6.61	6.61	0.70	9.96	9.94	9.94	12	12.00
5/9/2016	14:10	Rainy	Middle	4.0	27.00	27.00	27.00	7.90	7.90	7.90	29.80	29.80	29.80	93.7	93.9	93.1	6.32	6.33	6.28	7.67	7.66	7.66	8	8.50
3/9/2010	14:12	Tailiy	Middle	4.0	27.00	27.00	27.00	7.90	7.90	7.90	29.80	29.80	29.00	92.0	92.9	95.1	6.21	6.25	0.20	7.66	7.65	7.00	9	0.50
7/9/2016	15:37	Cloudy	Middle	3.5	26.90	26.90	26.90	7.76	7.76	7.77	30.24	30.24	30.24	63.8	63.8	65.5	4.30	4.30	4.41	8.98	8.97	8.97	7	7.00
113/2010	15:39	Cloudy	Middle	3.5	26.90	26.90	20.30	7.78	7.78	1.11	30.24	30.24	50.24	67.0	67.4	00.0	4.51	4.54	4.41	8.97	8.97	0.01	7	7.00
9/9/2016	2:15	Cloudy	Middle	3.5	27.40	27.40	27.40	7.62	7.62	7.64	29.90	29.90	29.90	68.0	68.6	68.4	4.54	4.59	4.57	4.70	4.69	4.72	6	5.00
0/0/2010	2:16	Cloudy	Middle	3.5	27.40	27.40	21.40	7.65	7.65	1.04	29.90	29.90	20.00	68.6	68.2	00.4	4.59	4.56	4.07	4.72	4.75	4.72	4	0.00
12/9/2016	8:30	Fine	Middle	3.5	28.00	28.00	28.05	7.88	7.88	7.86	28.97	28.97	28.97	99.9	99.7	99.2	6.65	6.63	6.60	5.30	5.29	5.29	3	3.00
12/0/2010	8:32	T IIIO	Middle	3.5	28.10	28.10	20.00	7.84	7.84	1.00	28.97	28.97	20.07	98.7	98.3	00.2	6.56	6.54	0.00	5.28	5.28	0.20	3	0.00
14/9/2016	10:00	Fine	Middle	3.5	28.80	28.80	28.80	7.97	7.97	7.98	28.52	28.52	28.52	115.2	116.3	115.1	7.59	7.63	7.57	5.44	5.42	5.43	6	6.50
1.0.2010	10:02		Middle	3.5	28.80	28.80	20.00	7.99	7.99	1.00	28.51	28.51	20.02	114.5	114.3		7.53	7.52	1.01	5.43	5.44	0.10	7	0.00
17/9/2016	9:50	Fine	Middle	4.0	28.10	28.10	28.15	7.96	7.96	7.97	31.20	31.20	31.20	97.7	98.8	97.9	6.41	6.45	6.41	18.81	18.74	18.62	15	- 16.00
	9:52		Middle	4.0	28.20	28.20	20.10	7.97	7.97		31.20	31.20	01.20	97.9	97.1	0110	6.42	6.37	0.11	18.59	18.34	<u></u>	17	10.00
19/9/2016	13:20	Fine	Middle	3.5	29.80	29.80	29.90	7.93	7.93	7.92	30.89	30.89	30.89	85.6	87.0	86.8	5.46	5.55	5.53	11.12	11.09	<u>11.08</u>	9	8.00
10/0/2010	13:22	T IIIO	Middle	3.5	30.00	30.00	20.00	7.90	7.90	1.02	30.89	30.89	00.00	87.4	87.1	00.0	5.57	5.53	0.00	11.06	11.05	11.00	7	0.00
21/9/2016	14:42	Fine	Middle	3.5	28.90	28.90	29.10	7.91	7.91	7.93	31.30	31.30	31.29	98.2	95.7	95.4	6.34	5.52	5.99	8.50	8.55	8.55	7	7.00
2.0.2010	14:44		Middle	3.5	29.30	29.30	20.10	7.94	7.94	1100	31.28	31.28	01.20	93.4	94.1	00.1	6.02	6.06	0.00	8.58	8.57	0.00	7	
23/9/2016	4:40	Cloudy	Middle	3.5	27.20	7.20	22.20	7.50	7.50	7.55	31.37	31.37	31.38	81.3	81.7	81.0	5.41	5.44	5.39	5.70	5.74	5.76	6	6.00
	4:41		Middle	3.5	27.20	27.20		7.60	7.60		31.38	31.38		80.1	80.7		5.33	5.37		5.79	5.82		6	
26/9/2016	7:50	Fine	Middle	4.0	28.20	28.20	28.20	7.86	7.86	7.88	31.62	31.62	31.63	92.8	93.6	92.5	6.07	6.12	6.05	8.51	8.50	8.50	5	5.50
2010/2010	7:52	1 110	Middle	4.0	28.20	28.20	20.20	7.90	7.90	7.00	31.63	31.63	01.00	93.0	90.4	02.0	6.08	5.91	0.00	8.50	8.50	0.00	6	0.00

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Graphic Presentation of Water Quality Result of WSD19 - Sheung Wan

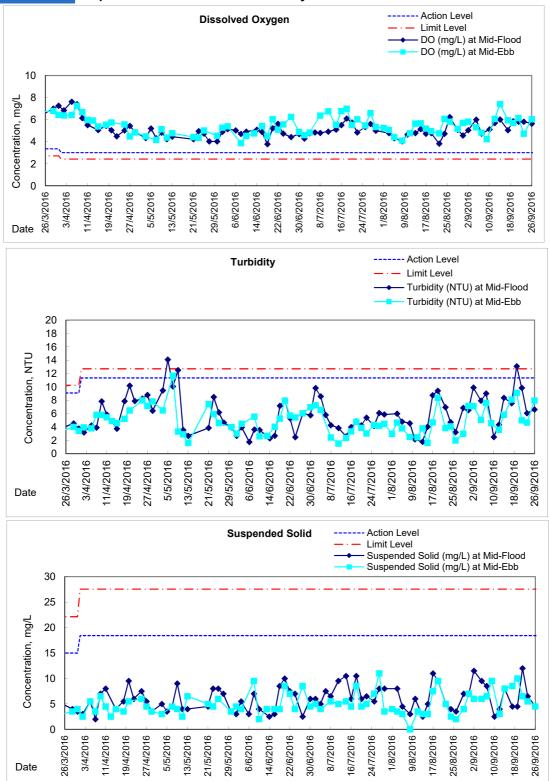




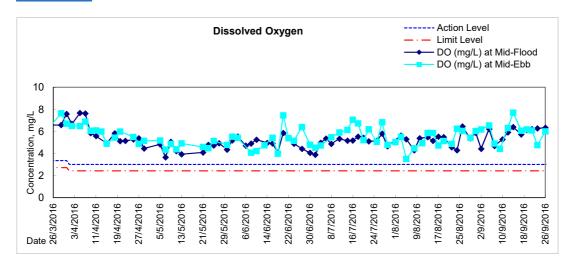


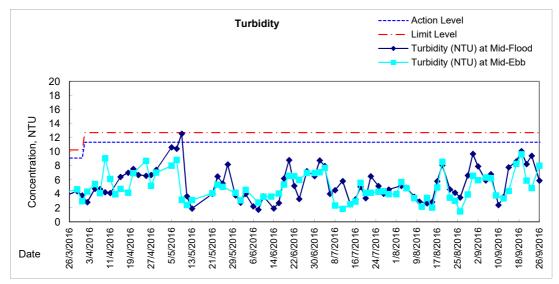


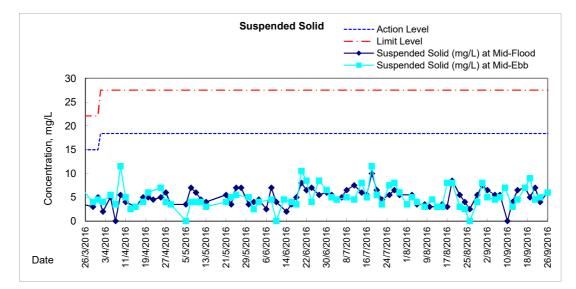
Graphic Presentation of Water Quality Result of C1 - HKCEC



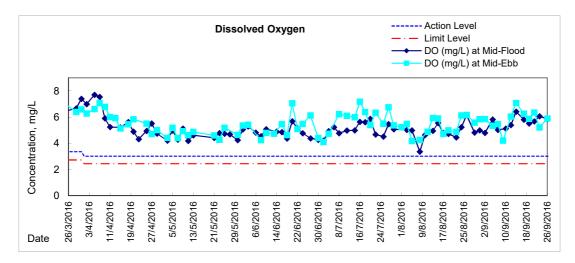
Graphic Presentation of Water Quality Result of P1 - HKCEC Phase I

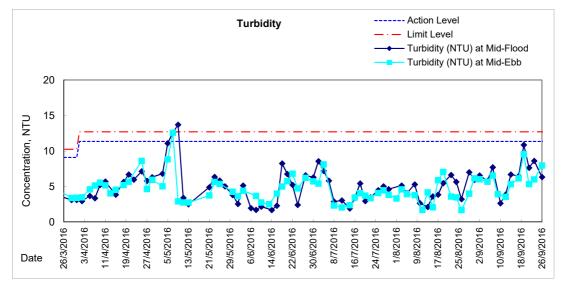


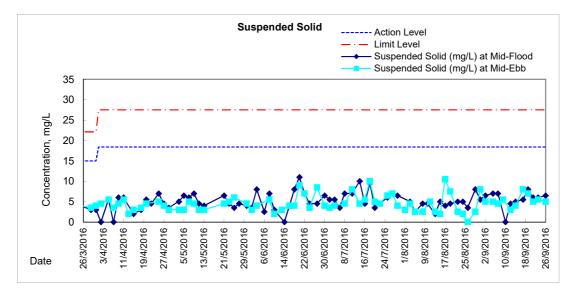




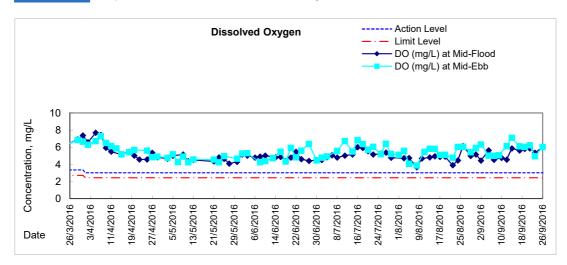
Graphic Presentation of Water Quality Result of P3 - APA

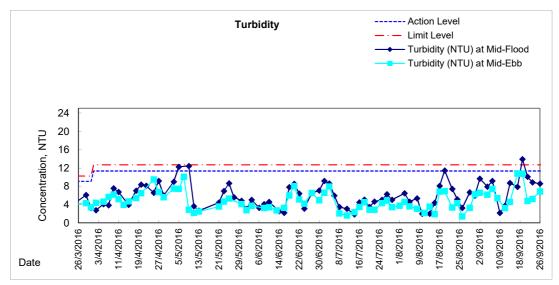


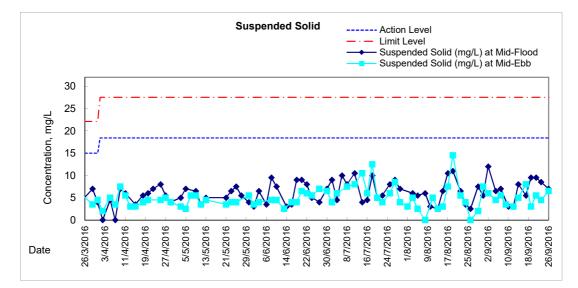




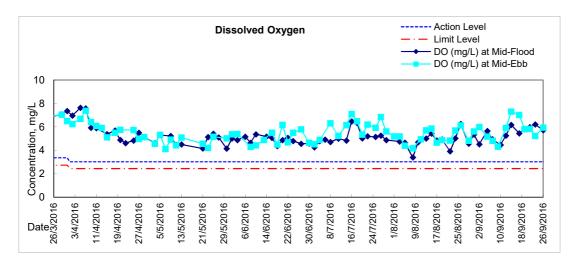
Graphic Presentation of Water Quality Result of P5 - WCT / RT / IT

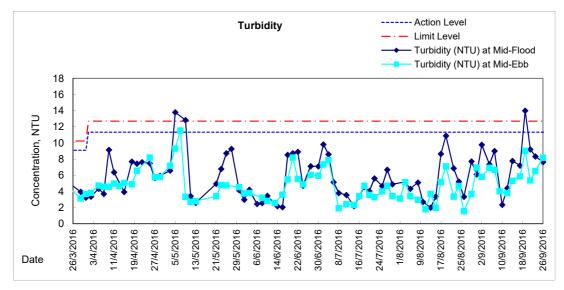


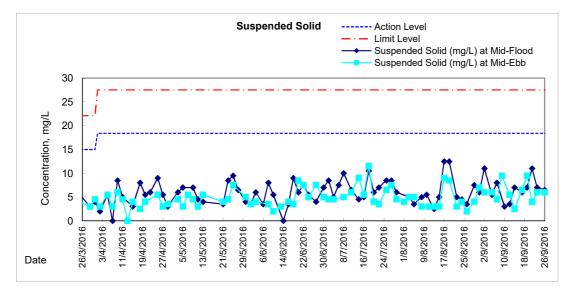


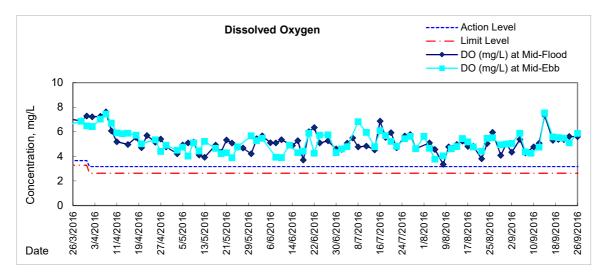


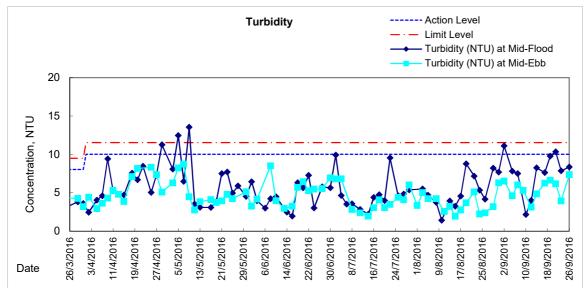
Graphic Presentation of Water Quality Result of P4 - SOC

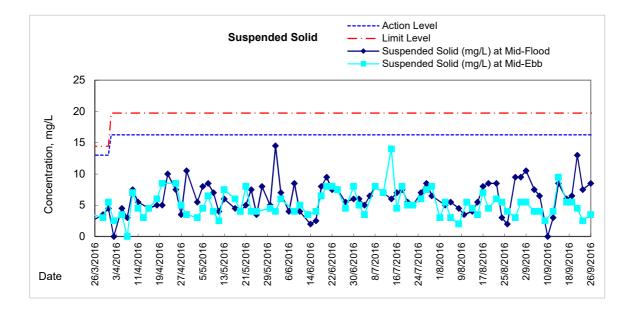




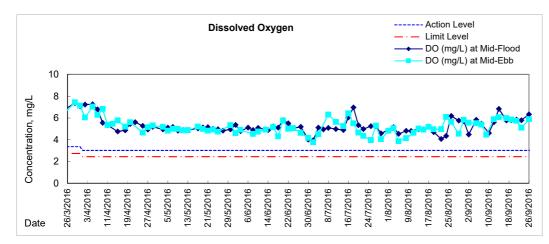


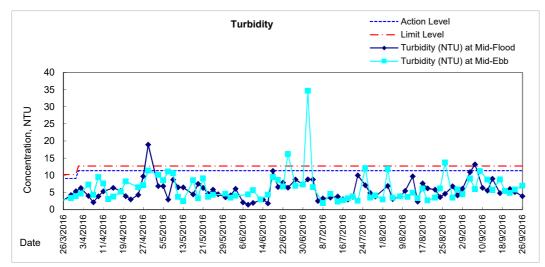


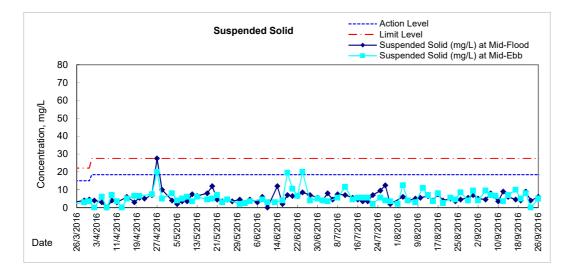












Water Monitoring Result at C6 - Excelsior Hotel Mid-Flood Tide

Date	Time	Weater	Samplin	g Depth	Wat	er Temp	perature		pН			Salini	y	D	O Satur	ation		DO	
Duic		Condition	n	n	Va	°C lue	Average	Va	- lue	Average	Va	ppt lue	Average	Va	% ilue	Average	Va	mg/l lue	Average
	17:50		Surface	1.0	27.30	27.30	27.3	7.80	7.80	7.8	28.09	28.09	28.1	63.1	62.9	63.0	4.29	4.27	4.28
29/8/2016	-	Cloudy	Middle	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	17:52		Bottom	3.0	27.10	27.10	27.1	7.78	7.78	7.8	28.71	28.71	28.7	79.5	78.1	78.8	5.38	5.29	5.34
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31/8/2016	18:30	Fine	Middle	1.5	27.50	27.50	27.5	7.84	7.84	7.8	29.36	29.60	29.5	71.9	75.3	73.6	4.81	5.04	4.93
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2/9/2016	18:10	Cloudy	Middle	1.0	27.80	27.80	27.8	7.45	7.45	7.5	26.98	26.98	27.0	61.2	60.7	61.0	4.14	4.10	4.12
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	10:20		Surface	1.0	27.50	27.50	27.5	7.75	7.75	7.8	28.96	29.96	29.5	76.9	77.2	77.1	5.17	5.18	5.18
5/9/2016	-	Cloudy	Middle	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	10:22		Bottom	3.0	27.30	27.30	27.3	7.75	7.75	7.8	29.65	29.65	29.7	92.7	93.3	93.0	6.22	6.26	6.24
	12:00		Surface	1.0	27.00	27.00	27.0	7.83	7.83	7.8	21.69	21.69	21.7	78.2	76.8	77.5	5.52	5.42	5.47
7/9/2016	-	Cloudy	Middle	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12:02		Bottom	3.0	27.00	27.00	27.0	7.72	7.72	7.7	28.36	28.36	28.4	82.6	82.1	82.4	5.62	5.59	5.61
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10/9/2016	22:30	Cloudy	Middle	1.5	27.00	27.00	27.0	7.57	7.57	7.6	25.72	25.72	25.7	55.5	56.4	56.0	3.84	3.89	3.87
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/9/2016	14:30	Fine	Middle	1.5	29.50	29.50	29.5	7.55	7.55	7.6	25.55	25.55	25.6	63.1	63.9	63.5	4.16	4.21	4.19
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14/9/2016	17:50	Fine	Middle	1.5	28.30	28.30	28.3	8.02	8.02	8.0	27.68	27.68	27.7	92.7	95.6	94.2	6.19	6.38	6.29
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17/9/2016	18:15	Fine	Middle	1.5	28.00	28.00	28.0	7.77	7.77	7.8	30.04	30.04	30.0	76.6	78.6	77.6	5.07	5.20	5.14
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	9:50		Surface	1.0	28.40	28.40	28.4	7.79	7.79	7.8	28.35	28.35	28.4	78.7	79.0	78.9	5.22	5.24	5.23
19/9/2016	-	Fine	Middle	2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	9:52		Bottom	4.0	28.10	28.10	28.1	7.80	7.80	7.8	29.12	29.12	29.1	88.1	88.1	88.1	5.85	5.85	5.85
	10:32		Surface	1.0	27.90	27.90	27.9	7.85	7.85	7.9	29.08	29.08	29.1	77.0	77.2	77.1	5.13	5.14	5.14
21/9/2016	-	Fine	Middle	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	10:34		Bottom	3.0	27.80	27.80	27.8	7.85	7.85	7.9	29.46	29.46	29.5	93.4	93.1	93.3	6.23	6.24	6.24
	14:50		Surface	1.0	28.60	28.60	28.6	7.91	7.91	7.9	30.47	30.47	30.5	82.8	81.6	82.2	5.41	5.33	5.37
23/9/2016	-	Fine	Middle	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14:52		Bottom	3.0	28.30	28.30	28.3	7.91	7.91	7.9	30.64	30.64	30.6	85.5	86.7	86.1	5.61	5.69	5.65
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26/9/2016	16:55	Fine	Middle	1.5	28.30	28.30	28.3	7.87	7.87	7.9	29.16	29.16	29.2	69.3	69.8	69.6	4.63	4.65	4.64
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Remarks: Single underline denotes exceedance over Action Level. Double underline denotes exceedance over Limit Level.

Water Monitoring Result at Ex-WPCWA SW - South-western corners of ex-Public Cargo Works Area Mid-Flood Tide

		Time Weater Sampling Depth Water Temperature								<u> </u>									
Date	Time	Weater Condition		ig Depth n		°C			<u>рН</u> 		<u> </u>	Salinit ppt			O Satur %			DO mg/L	
	_		Surface	-	Va -	lue	Average	Va	lue	Average	Va -	lue	Average	Va -	lue -	Average	Va	lue	Average
29/8/2016	- 17:14	Cloudy	Middle	-	- 26.90	- 26.90	- 26.9	- 7.97	- 7.97	- 8.0	- 13.33	- 13.33	- 13.3	- 29.2	- 28.3	- 28.8	- 2.16	- 2.10	- <u>2.13</u>
23/0/2010	-	Cloudy	Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	2.10	-	-
	-		Surface		-	-		-	-	-	-	-	-	_	-	-	_	-	_
31/8/2016	17:50	Fine	Middle	1.5	27.40	27.40	27.4	7.88	7.88	7.9	25.01	25.01	25.0	45.9	47.9	46.9	3.41	3.61	3.51
5170/2010	-	T IIIC	Bottom	-	-	-	27.4	-	-	1.5	-	-	-	-	-	-	3.41	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-		-	-		_	-
2/9/2016	18:52	Cloudy	Middle	1.0	27.70	27.60	27.7	8.08	8.08	8.1	11.81	11.82	11.8	58.5	59.9	59.2	3.95	4.04	4.00
2/9/2010	-	Cloudy	Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
																	-		
E(0/2016	-	Claudu	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5/9/2016	10:04	Cloudy	Middle	1.5	27.10	27.10	27.1	7.83	7.83	7.8	28.40	28.40	28.4	62.3	61.8	62.1	4.23	4.20	4.22
	-		Bottom		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
7/0/0040	-	Claude	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7/9/2016	11:47	Cloudy	Middle	1.5	26.90	26.90	26.9	7.94	7.94	7.9	20.83	20.83	20.8	57.4	57.3	57.4	4.08	4.07	4.08
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40/0/0040	-	Olausta	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10/9/2016	1:30	Cloudy	Middle	1.5	27.00	27.00	27.0	7.81	7.81	7.8	21.56	21.56	21.6	55.8	54.7	55.3	3.85	3.77	3.81
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/9/2016	14:00	Fine	Middle	1.5	28.40	28.40	28.4	7.90	7.90	7.9	18.12	18.12	18.1	46.3	46.2	46.3	3.23	3.22	3.23
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14/9/2016	17:00	Fine	Middle	1.5	27.90	27.90	27.9	8.07	8.07	8.1	18.23	18.23	18.2	69.0	69.3	69.2	4.89	4.91	4.90
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17/9/2016	17:25	Fine	Middle	1.5	27.60	27.60	27.6	8.07	8.07	8.1	15.50	15.50	15.5	42.8	43.0	42.9	3.26	3.30	3.28
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19/9/2016	9:35	Fine	Middle	1.5	27.70	27.70	27.7	7.89	7.89	7.9	23.34	23.34	23.3	58.0	57.0	57.5	4.00	3.93	3.97
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21/9/2016	10:13	Fine	Middle	1.5	27.30	27.30	27.3	7.96	7.96	8.0	24.62	24.62	24.6	63.5	63.9	63.7	4.38	4.41	4.40
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23/9/2016	12:03	Fine	Middle	1.5	27.90	27.90	27.9	7.94	7.94	7.9	28.25	28.25	28.3	55.4	55.8	55.6	3.71	3.73	3.72
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26/9/2016	16:40	Fine	Middle	1.5	28.20	28.20	28.2	7.93	7.93	7.9	26.35	26.35	26.4	62.9	62.6	62.7	4.23	4.21	4.22
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Remarks:

Single underline denotes exceedance over Action Level. Double underline denotes exceedance over Limit Level.

Water Monitoring Result at Ex-WPCWA SE - South-eastern corners of ex-Public Cargo Works Area Mid-Flood Tide

					-														
Date	Time	Weater	Samplin	ig Depth	Wat		perature		pН			Salinit	у	D	O Satur	ation		DO	
		Condition	r	n	Va	°C lue	Average	Va	- lue	Average	Va	ppt lue	Average	Va	% lue	Average	Va	mg/L lue	Average
	17:10		Surface	1.0	27.20	27.20	27.2	7.91	7.91	7.9	27.50	27.50	27.5	48.4	49.4	48.9	3.30	3.36	<u>3.33</u>
29/8/2016	-	Cloudy	Middle	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	17:12		Bottom	3.0	27.00	27.00	27.0	7.94	7.94	7.9	22.92	22.92	22.9	60.4	60.5	60.5	4.24	4.22	4.23
	17:43		Surface	1.0	27.40	27.40	27.4	7.90	7.90	7.9	28.18	28.18	28.2	54.8	54.0	54.4	3.69	3.64	3.67
31/8/2016	-	Fine	Middle	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	17:45		Bottom	3.0	27.30	27.30	27.3	7.89	7.89	7.9	27.51	27.51	27.5	61.9	61.6	61.8	4.20	4.18	4.19
	18:56		Surface	1.0	27.70	27.70	27.7	8.00	7.98	8.0	11.76	11.76	11.8	56.9	59.0	58.0	3.83	3.97	3.90
2/9/2016	-	Cloudy	Middle	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	18:57		Bottom	3.0	27.70	27.70	27.7	7.98	7.99	8.0	11.78	11.78	11.8	59.2	58.7	59.0	3.99	3.96	3.98
	10:00		Surface	1.0	27.10	27.10	27.1	7.89	7.89	7.9	28.65	28.65	28.7	65.4	65.2	65.3	4.43	4.41	4.42
5/9/2016	-	Cloudy	Middle	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	10:02	,	Bottom	3.0	26.90	26.90	26.9	7.82	7.82	7.8	30.98	30.98	31.0	72.4	72.6	72.5	4.86	4.87	4.87
	11:43		Surface	1.0	27.00	27.00	27.0	7.89	7.89	7.9	26.38	26.38	26.4	64.1	62.5	63.3	4.40	4.29	4.35
7/9/2016	-	Cloudy	Middle	2.0	-	-	-	-	-	-	-	-	-	-	-	-			
110/2010	11:45	oloudy	Bottom	3.0	26.90	26.90	26.9	7.82	7.82	7.8	29.49	29.49	29.5	65.7	65.2	65.5	4.44	4.41	4.43
			Surface	1.0	20.90	27.00	27.0				29.49	23.43	23.5	55.4		56.0	3.82	3.91	
10/0/2016	1:35	Claudu						7.70	7.70	7.7					56.6	50.0			3.87
10/9/2016	-	Cloudy	Middle	2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1:36		Bottom	4.0	27.00	27.00	27.0	7.69	7.69	7.7	21.56	21.56	21.6	56.2	57.0	56.6	3.88	3.93	3.91
	14:05		Surface	1.0	28.70	28.70	28.7	7.74	7.74	7.7	18.81	18.81	18.8	54.8	54.2	54.5	3.81	3.80	3.81
12/9/2016	-	Fine	Middle	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14:07		Bottom	3.0	28.50	28.50	28.5	7.60	7.60	7.6	26.84	26.84	26.8	72.4	71.5	72.0	4.83	4.77	4.80
	16:56		Surface	1.0	27.90	27.90	27.9	8.25	8.25	8.3	12.86	12.86	12.9	59.4	59.2	59.3	4.33	4.32	4.33
14/9/2016	-	Fine	Middle	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	16:58		Bottom	3.0	28.20	28.20	28.2	7.94	7.94	7.9	24.34	24.34	24.3	101.2	101.0	101.1	6.91	6.89	6.90
	17:21		Surface	1.0	28.00	28.00	28.0	7.97	7.97	8.0	27.37	27.37	27.4	56.2	56.9	56.6	3.77	3.82	3.80
17/9/2016	-	Fine	Middle	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	17:23		Bottom	3.0	27.90	27.90	27.9	7.89	7.89	7.9	28.64	28.64	28.6	71.0	71.3	71.2	4.25	4.20	4.23
	9:30		Surface	1.0	27.70	27.70	27.7	7.80	7.80	7.8	26.19	26.17	26.2	64.5	64.1	64.3	4.39	4.36	4.38
19/9/2016	-	Fine	Middle	2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	9:32		Bottom	4.0	27.70	27.70	27.7	7.77	7.77	7.8	28.38	28.38	28.4	76.3	76.4	76.4	5.13	5.13	5.13
	10:09		Surface	1.0	27.70	27.70	27.7	7.94	7.94	7.9	28.33	28.33	28.3	60.5	59.8	60.2	4.06	4.02	4.04
21/9/2016	-	Fine	Middle	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	10:11		Bottom	3.0	27.70	27.70	27.7	7.90	7.90	7.9	30.28	30.28	30.3	76.9	77.2	77.1	5.12	5.13	5.13
	11:59		Surface	1.0	28.10	28.10	28.1	7.98	7.98	8.0	27.17	27.17	27.2	67.2	66.9	67.1	4.51	4.49	4.50
23/9/2016	-	Fine	Middle	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12:01		Bottom	3.0	28.00	28.00	28.0	7.91	7.91	7.9	30.01	30.01	30.0	78.9	77.6	78.3	5.22	5.14	5.18
	16:45		Surface	1.0	28.40	28.40	28.4	7.88	7.88	7.9	26.68	26.68	26.7	70.6	71.0	70.8	4.68	4.71	4.70
26/9/2016	-	Fine	Middle	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	16:47		Bottom	3.0	28.30	28.30	28.3	7.88	7.88	7.9	30.22	30.22	30.2	89.7	88.2	89.0	5.91	5.81	5.86
	10.47		Dottom	3.0	20.00	20.00	20.3	1.00	1.00	1.3	50.22	00.22	JU.2	09.1	00.2	09.0	0.01	0.01	0.00

Remarks: Single underline denotes exceedance over Action Level. Double underline denotes exceedance over Limit Level.

Water Monitoring Result at C6 - Excelsior Hotel Mid-Ebb Tide

	Time	Weater	Samplir	ng Depth	Wat	er Tem	perature		pН			Salinit	Ŋ	D	0 Satur	ation		DO	
Date		Condition		n		°C		Va	- lue	Average	Va	ppt lue			%		Va	mg/L lue	Average
	_		Surface	-	va -	iue -	Average -	va -	iue -	Average -	va	iue -	Average -	- va	iue -	Average -	va -	iue -	Average -
29/8/2016	11:53	Cloudy	Middle	2	27.30	27.30	27.3	7.73	7.73	7.7	29.29	29.29	29.3	69.2	67.6	68.4	4.66	4.55	4.61
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31/8/2016	12:05	Fine	Middle	2	27.70	27.70	27.7	7.93	7.93	7.9	24.85	24.85	24.9	70.4	71.8	71.1	4.82	4.91	4.87
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2/9/2016	11:35	Cloudy	Middle	2	28.10	28.10	28.1	7.71	7.71	7.7	28.47	28.47	28.5	64.5	65.4	65.0	4.30	4.36	4.33
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5/9/2016	16:20	Rainy	Middle	2	26.70	26.70	26.7	7.99	7.99	8.0	27.98	27.98	28.0	82.4	82.2	82.3	6.01	6.00	6.01
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7/9/2016	17:41	Cloudy	Middle	1	26.70	26.00	26.4	7.80	7.80	7.8	22.90	22.90	22.9	73.3	72.1	72.7	5.16	5.08	5.12
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9/9/2016	3:18	Cloudy	Middle	2	27.10	27.10	27.1	7.61	7.61	7.6	20.49	20.49	20.5	52.2	52.9	52.6	3.71	3.76	3.74
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10/0/00 10	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/9/2016	-	Fine	Middle Bottom	2	28.60	28.60	28.6	7.67	7.67	7.7	25.39	25.39	- 25.4	63.8 -	65.0 -	64.4	4.29	4.37	4.33
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14/9/2016	- 11:35	Fine	Middle	2	- 28.20	- 28.20	- 28.2	- 7.82	- 7.82	- 7.8	- 28.04	- 28.04	- 28.0	- 66.5	- 66.4	- 66.5	- 4.43	- 4.42	4.43
14/0/2010	-	1 110	Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-			
	11:50		Surface	1	28.60	28.60	28.6	7.83	7.83	7.8	24.22	24.22	24.2	78.0	78.6	78.3	5.28	5.32	5.30
17/9/2016	-	Fine	Middle	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11:52		Bottom	3	28.60	28.60	28.6	7.78	7.78	7.8	24.85	24.85	24.9	86.9	86.8	86.9	5.83	5.83	5.83
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19/9/2016	15:30	Fine	Middle	2	28.80	28.80	28.8	7.81	7.81	7.8	27.67	27.67	27.7	75.7	76.1	75.9	5.00	5.03	5.02
L	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21/9/2016	15:55	Fine	Middle	2	28.30	28.30	28.3	7.89	7.89	7.9	28.41	28.41	28.4	70.5	70.7	70.6	4.68	4.69	4.69
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23/9/2016	2:40	Cloudy	Middle	2	26.90	26.97	26.9	7.79	7.79	7.8	28.69	28.69	28.7	69.3	70.0	69.7	4.69	4.74	4.72
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26/9/2016	11:15	Fine	Middle	2	28.70	28.70	28.7	7.89	7.89	7.9	30.48	30.48	30.5	78.4	79.0	78.7	5.11	5.17	5.14
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Remarks:

Single underline denotes exceedance over Action Level. Double underline denotes exceedance over Limit Level.

am

Water Monitoring Result at Ex-WPCWA SW - South-western corners of ex-Public Cargo Works Area Mid-Ebb Tide

	MIG-EC																		
Date	Time	Weater	Samplin	ig Depth	Wat		perature		pН			Salinit	y	D	O Satur	ation		DO	
		Condition	n	n	Va	°C lue	Average	Va	- lue	Average	Va	ppt lue	Average	Va	% lue	Average	Va	mg/L Ilue	Average
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29/8/2016	11:40	Cloudy	Middle	1.5	27.10	27.10	27.1	7.93	7.93	7.9	18.53	18.53	18.5	27.8	32.6	30.2	1.99	2.33	<u>2.16</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31/8/2016	11:25	Fine	Middle	1.5	27.30	27.30	27.3	7.98	7.98	8.0	16.58	16.58	16.6	36.6	36.5	36.6	2.64	2.63	<u>2.64</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2/9/2016	11:15	Cloudy	Middle	1.5	27.70	27.70	27.7	7.91	7.91	7.9	18.49	18.49	18.5	36.6	35.8	36.2	2.59	2.54	<u>2.57</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5/9/2016	16:00	Rainy	Middle	1.5	26.70	26.70	26.7	8.06	8.06	8.1	18.14	18.14	18.1	75.2	74.8	75.0	5.44	5.41	5.43
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7/9/2016	17:24	Cloudy	Middle	1.5	26.80	26.80	26.8	7.94	7.94	7.9	20.81	20.81	20.8	58.3	58.1	58.2	4.14	4.14	4.14
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9/9/2016	3:05	Cloudy	Middle	1.5	27.10	27.10	27.1	7.88	7.88	7.9	20.02	20.01	20.0	51.3	51.9	51.6	3.65	3.69	3.67
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/9/2016	10:51	Fine	Middle	1.5	27.60	27.60	27.6	7.79	7.79	7.8	22.01	22.01	22.0	48.4	50.0	49.2	3.37	3.48	3.43
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14/9/2016	11:05	Fine	Middle	1.5	27.70	27.70	27.7	8.00	8.00	8.0	22.57	22.57	22.6	66.0	65.8	65.9	4.56	4.55	4.56
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17/9/2016	11:20	Fine	Middle	1.5	27.40	27.40	27.4	7.99	7.99	8.0	15.52	15.52	15.5	45.0	46.0	45.5	3.26	3.33	3.30
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19/9/2016	15:19	Fine	Middle	1.5	28.00	28.00	28.0	7.94	7.94	7.9	21.41	21.41	21.4	46.8	46.7	46.8	5.25	5.24	5.25
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21/9/2016	15:42	Fine	Middle	1.5	27.80	27.80	27.8	7.99	7.99	8.0	22.55	22.55	22.6	52.7	52.6	52.7	3.65	3.64	3.65
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23/9/2016	3:10	Cloudy	Middle	1.5	27.00	27.00	27.0	7.83	7.83	7.8	27.63	27.63	27.6	56.8	57.5	57.2	3.87	3.92	3.90
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26/9/2016	10:40	Fine	Middle	1.5	28.40	28.40	28.4	7.90	7.90	7.9	28.06	28.06	28.1	64.4	64.5	64.5	4.28	4.28	4.28
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1	l	I	I	I	l	L	l	l	1	l	l	1	l	l	L	1	1	L

Remarks: Single underline denotes exceedance over Action Level. Double underline denotes exceedance over Limit Level.

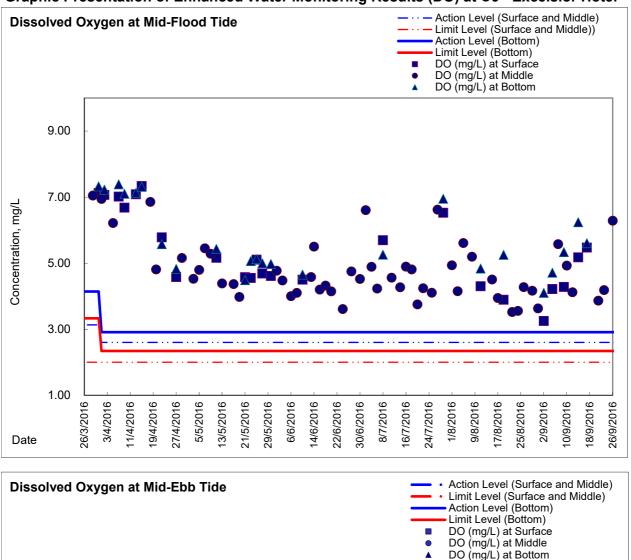
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Water Monitoring Result at Ex-WPCWA SE - South-eastern corners of ex-Public Cargo Works Area Mid-Ebb Tide

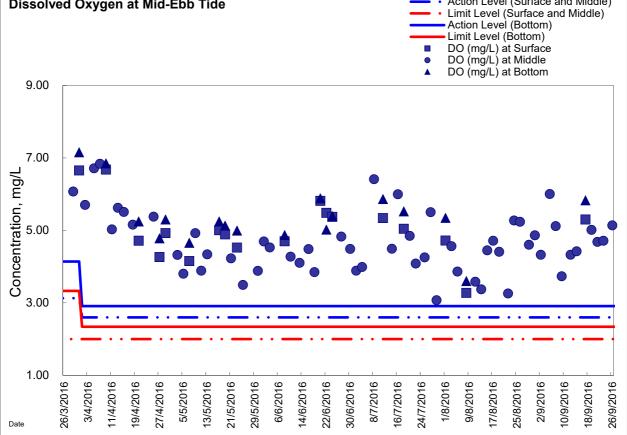
Date	Time	Weater Condition	Samplin	g Depth	Wat	<u>er Tem</u> p ℃	perature		pH			Salinit ppt	ty	D	O Satur %	ation		DO mg/l	
		Condition	n	n	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average
	11:34		Surface	1.0	26.80	26.80	26.8	7.76	7.76	7.8	22.94	22.94	22.9	51.9	51.4	51.7	3.65	3.61	3.63
29/8/2016	-	Cloudy	Middle	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11:36		Bottom	3.0	26.90	26.90	26.9	7.71	7.71	7.7	26.82	26.82	26.8	67.9	66.1	67.0	4.66	4.54	4.60
	11:30		Surface	1.0	27.40	27.40	27.4	7.68	7.68	7.7	24.43	24.43	24.4	64.3	64.4	64.4	4.37	4.42	4.40
31/8/2016	-	Fine	Middle	2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11:32		Bottom	4.0	27.50	27.50	27.5	7.66	7.66	7.7	28.20	28.20	28.2	83.5	83.4	83.5	5.63	5.63	5.63
	11:20		Surface	1.0	27.70	27.70	27.7	7.69	7.69	7.7	22.36	22.36	22.4	64.6	64.1	64.4	4.49	4.52	4.51
2/9/2016	-	Cloudy	Middle	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11:22		Bottom	3.0	27.80	27.80	27.8	7.62	7.62	7.6	27.67	27.67	27.7	80.0	80.2	80.1	5.38	5.39	5.39
	15:56		Surface	1.0	26.60	26.60	26.6	8.15	8.15	8.2	15.76	15.76	15.8	78.3	78.5	78.4	5.75	5.77	5.76
5/9/2016	-	Rainy	Middle	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15:58		Bottom	3.0	26.60	26.60	26.6	7.91	7.91	7.9	26.54	26.54	26.5	76.7	75.1	75.9	5.30	5.19	5.25
	17:20		Surface	1.0	26.80	26.80	26.8	7.90	7.90	7.9	23.85	23.85	23.9	59.6	59.2	59.4	4.17	4.14	4.16
7/9/2016	-	Cloudy	Middle	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	17:22		Bottom	3.0	26.90	26.90	26.9	7.81	7.81	7.8	27.72	27.72	27.7	67.4	67.0	67.2	4.61	4.58	4.60
	3:09		Surface	1.0	27.10	27.10	27.1	7.70	7.70	7.7	20.01	20.01	20.0	53.3	54.1	53.7	3.79	3.84	3.82
9/9/2016	-	Cloudy	Middle	2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3:10		Bottom	4.0	27.10	27.10	27.1	7.67	7.67	7.7	20.01	20.01	20.0	53.8	54.4	54.1	3.83	3.86	3.85
	10:47		Surface	1.0	28.00	28.00	28.0	7.83	7.83	7.8	29.87	29.87	29.9	58.1	58.0	58.1	3.95	3.94	3.95
12/9/2016	-	Fine	Middle	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	10:49		Bottom	3.0	27.90	27.90	27.9	7.75	7.75	7.8	26.83	26.83	26.8	65.4	64.8	65.1	4.41	4.37	4.39
	11:10		Surface	1.0	27.60	27.60	27.6	7.98	7.98	8.0	18.70	18.70	18.7	75.0	75.6	75.3	5.32	5.36	5.34
14/9/2016	-	Fine	Middle	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11:12		Bottom	3.0	27.90	27.90	27.9	7.81	7.81	7.8	25.96	25.96	26.0	86.0	85.7	85.9	5.83	5.81	5.82
	11:16		Surface	1.0	28.20	28.20	28.2	7.90	7.90	7.9	24.61	24.61	24.6	64.9	65.4	65.2	4.41	4.44	4.43
17/9/2016	-	Fine	Middle	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11:18		Bottom	3.0	27.80	27.80	27.8	7.95	7.90	7.9	23.20	23.20	23.2	70.4	70.8	70.6	4.85	4.88	4.87
	15:15		Surface	1.0	28.50	28.50	28.5	7.98	7.98	8.0	23.64	23.64	23.6	56.7	57.1	56.9	3.86	3.88	3.87
19/9/2016	-	Fine	Middle	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15:17		Bottom	3.0	28.40	28.40	28.4	7.86	7.86	7.9	26.87	26.87	26.9	78.3	78.2	78.3	5.24	5.30	5.27
	15:38		Surface	1.0	28.60	28.60	28.6	7.92	7.92	7.9	28.98	28.98	29.0	59.4	57.4	58.4	4.57	4.47	4.52
21/9/2016	-	Fine	Middle	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15:40		Bottom	3.0	28.20	28.20	28.2	7.91	7.91	7.9	30.66	30.66	30.7	87.9	87.2	87.6	5.78	5.74	5.76
	3:15		Surface	1.0	27.00	27.00	27.0	7.82	7.82	7.8	27.75	27.75	27.8	58.1	58.2	58.2	3.96	3.97	3.97
23/9/2016	-	Cloudy	Middle	2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3:16		Bottom	4.0	27.10	27.10	27.1	7.82	7.82	7.8	27.76	27.76	27.8	58.5	58.9	58.7	3.98	4.02	4.00
	10:45		Surface	1.0	28.10	28.10	28.1	7.92	7.92	7.9	25.10	25.10	25.1	72.6	72.8	72.7	4.93	4.94	4.94
26/9/2016	-	Fine	Middle	2.0	-	-	-	-	•	-	-	-	-	-		-	-	-	-
	10:47		Bottom	3.0	28.20	28.20	28.2	7.86	7.86	7.9	27.83	27.83	27.8	90.4	90.8	90.6	6.03	6.06	6.05
	-		•		•	•			•		•	•			•		•	•	

Remarks: Single underline denotes exceedance over Action Level. Double underline denotes exceedance over Limit Level.



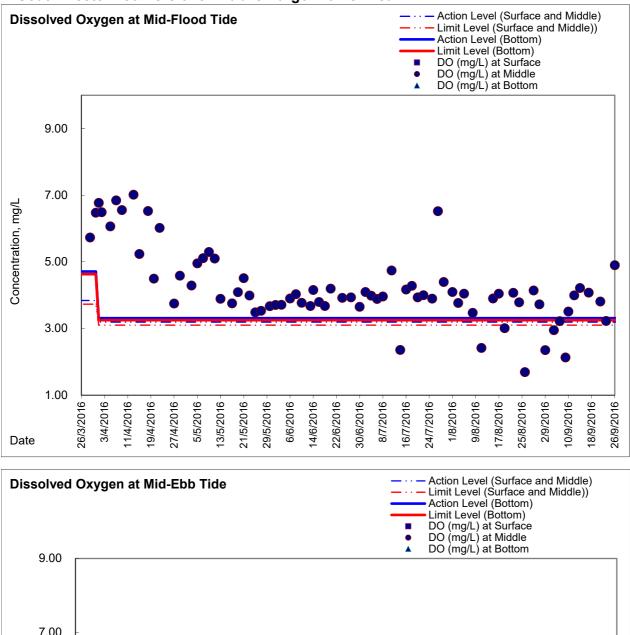


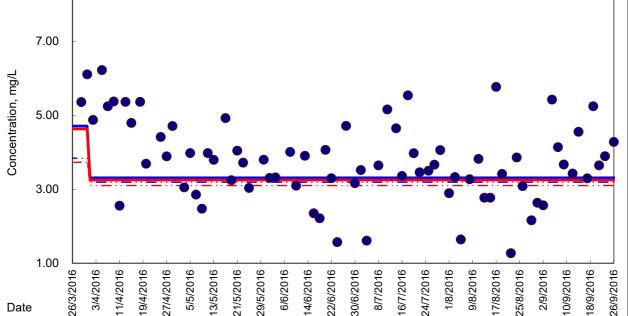
Graphic Presentation of Enhanced Water Monitoring Results (DO) at C6 - Excelsior Hotel





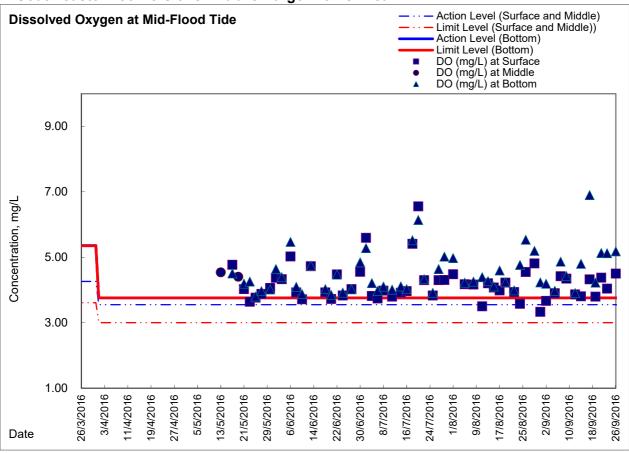
Graphic Presentation of Enhanced Water Monitoring Results (DO) at Ex-WPCWA SW - South-western corners of ex-Public Cargo Works Area

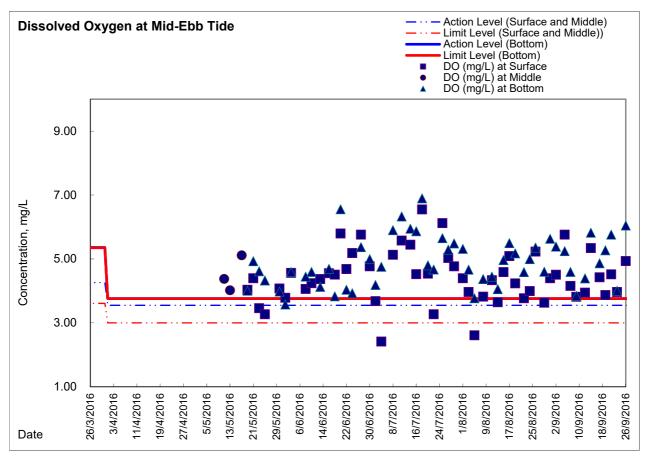






Graphic Presentation of Enhanced Water Monitoring Results (DO) at Ex-WPCWA SE - South-eastern corners of ex-Public Cargo Works Area







Appendix 6.1

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		
EVENT	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 6.2

Summary for Notification of Exceedance



Ref. No.	Date	Time	Location	Measured TSP Level	Unit	Action Level	Limit Level	Follow-up action	
X_16A007	14-Sep-16	9:10	CMA5b- Pedestrian Plaza	379.4	1 hr TSP (ug/m ³)	332.0	500	Possible reason:	Elevated TSP level potentially in relate to other sources affecting local ambient condition such as road traffic next to the monitoring station
					(09,)			Action taken / to be taken:	Reviewed the trend of air quality measurement across monitoring stations. Analysis of contractor's working procedures. Mitigation measures including maintaining haul road in dampened condition was implemented by contractor.
								Remarks / Other Obs:	Despite formwork erection was undertaken on the monitoring date at around Pedestrian Plaza under Contractor of HK/2012/08, dust suppression measure including haul road maintained in dampened condition were implemented and no particular observation regarding air quality impact was observed during sampling. In view of the above, the action level exceedance was considered to be non-project related and potentially contributed by other sources affecting local ambient condition such as road traffic next to the monitoring station. In addition, non WDII-CWB Project construction activities opposite to the monitoring station was observed on the monitoring date. Nevertheless, the Contractor of HK/2012/08 was reminded to maintain regularly dust suppression measures for any potential dusty surface and dust generating operation around the concerned location to avoid any potential cumulative air quality impact.
X_16A008	14-Sep-16	9:10	CMA5b- Pedestrian Plaza	379.4	1 hr TSP (ug/m ³)	332.0	500	Possible reason: Action taken / to be taken:	
								Remarks / Other Obs:	working procedures. Pipe laying was undertaken on the monitoring date around Pedestrian Plaza under Contract HK/2009/01 and no particular observation regarding air quality impact was observed during sampling. In view of the above, the action level exceedance was considered to be non-project related and potentially contributed by other sources affecting local ambient condition such as road traffic next to the monitoring station. In addition, non WDII-CWB Project construction activities opposite to the monitoring station was observed on the monitoring date. Nevertheless, the Contractor of HK/2009/01 was reminded to maintain regular dust suppression measures for any potential dusty surface and dust generating operation around the concerned location to avoid any potential cumulative air quality impact.
X_16A010	26-Sep-16	9:10	CMA5b- Pedestrian Plaza	385	1 hr TSP (ug/m ³)	332.0	500	Possible reason:	Elevated TSP level potentially in relate to other sources affecting local ambient condition such as road traffic next to the monitoring station
								Action taken / to be taken: Remarks / Other Obs:	Reviewed the trend of air quality measurement across monitoring stations. Reviewed Contractor's working procedures. Mitigation measures including maintaining haul road in dampened condition was implemented by Contractor. Despite formwork erection and re-bar fixing were undertaken on the monitoring date at around Pedestrian Plaza under Contractor of HK/201208, dust suppression measure including haul road maintained in dampened condition were implemented and no particular observation regarding air quality impact was observed during sampling. In tew of the above, the action level exceedance was considered to be non-project related and potentially contributed by other sources affecting local ambient condition such as road traffic next to the monitoring station. According to the EPD information, smog was observed on the monitoring date and the prevailing meteorological condition on the monitoring date is detrimental to dispersion of any potential roadside pollutant. In addition, non WDII- CWB Project construction activities opposite to the monitoring station was observed on the monitoring date. Nevertheless, the Contractor of HK/2012/08 was reminded to maintain regularly dust suppression measures for any potential dusty surface and dust generating operation around the concerned location to avoid any potential cumulative air quality impact.
X_16A011	26-Sep-16	9:10	CMA5b- Pedestrian Plaza	385	1 hr TSP (ug/m ³)	332.0	500	Possible reason:	Elevated TSP level potentially in relate to other sources affecting local ambient condition such as road traffic next to the monitoring station
								Action taken / to be taken:	Reviewed the trend of air quality measurement across monitoring stations. Reviewed contractor's working procedures.
								Remarks / Other Obs:	Manhole construction was undertaken on the monitoring date around Pedestrian Plaza under Contract HK/2009/01 and no particular observation regarding air quality impact was observed during sampling. In view of the above, the action level exceedance was considered to be non-project related and potentially contributed by other sources affecting local ambient condition such as road traffic next to the monitoring station. According to the EPD information, smog was observed on the monitoring date and the prevailing meteorological condition on the monitoring date is detrimental to dispersion of any potential roadside pollutant. In addition, non WDII-CWB Project construction activities opposite to the monitoring station was observed on the monitoring date. Nevertheless, the Contractor Of HK/2009/01 was reminded to maintain regular dust suppression measures for any potential dusty surface and dust generating operation around the concerned location to avoid any potential cumulative air quality impact.



Lam Geotechnics Limited

Ref no.	Date	Tidal	Location	Parameters (Unit)	Measured	Action Level	Limit Level	Follow-up action	
X_16C041	7-Sep-16	Mid-flood	C7	DO(mg/l)	5.48	3.02	2.44	Possible reason:	Natural variation or changes of water quality in the vicinity of water abstraction location for the water quality monitoring station.
				Turbidity	13.22	11.35	12.71	Action taken/ to be taken:	Immediate repeated in-situ measurement had conducted to confirm the exceedances. Checking with contractor works and review previous monitoring data.
				SS	8.00	18.42	27.54	Remarks/ Other Obs:	No marine activity was conducted under Contract HY/2009/15 at Causeway Bay Typhoon Shelter on the monitoring date. In view of no marine construction activity, the exceedance was considered not related to Contract HY/2009/15 construction works. No marine activity was conducted under Contract HY/2010/08 on the monitoring date, and the installed silt screen was in place. In view of the above, it was considered that the exceedance was not project related. No exceedance was recorded on the subsequent monitoring.
X_16C042	19-Sep-16	Mid-flood	C1	DO(mg/l)	5.87	3.02	2.44	Possible reason:	Natural variation or changes of water quality in the vicinity of water abstraction location for the water quality monitoring station.
				Turbidity	13.10	11.35	12.71	Action taken/ to be taken:	Immediate repeated in-situ measurement had conducted to confirm the exceedances. Checking with contractor works and review previous monitoring data.
				SS	4.50	18.42	27.54	Remarks/ Other Obs:	No marine activity was conducted under Contract HK/2009/01 on the monitoring date. In view of the above, the exceedance was considered not related to Contract HK/2009/01 construction works. No marine activity was conducted under Contract HK/2009/02 on the monitoring date. In view of the above, the exceedance was considered not related to Contract HK/2009/02 construction works. No exceedance was recorded on the subsequent monitoring.
X_16C043	19-Sep-16	Mid-flood	P4	DO(mg/l)	5.83	3.02	2.44	Possible reason:	Natural variation or changes of water quality in the vicinity of water abstraction location for the water quality monitoring station.
				Turbidity	14.00	11.35	12.71	Action taken/ to be taken:	Immediate repeated in-situ measurement had conducted to confirm the exceedances. Checking with contractor works and review previous monitoring data.
				SS	7.00	18.42	27.54	Remarks/ Other Obs:	No marine activity was conducted under Contract HK/2012/08 on the monitoring date. Location of construction area was at downstream of monitoring station P4. In view of the above, the exceedance was considered not project related. No exceedance was recorded on the subsequent monitoring.
X_16C044	19-Sep-16	Mid-flood	P5	DO(mg/l)	5.81	3.02	2.44	Possible reason:	Natural variation or changes of water quality in the vicinity of water abstraction location for the water quality monitoring station.
				Turbidity	13.93	11.35	12.71	Action taken/ to be taken:	Immediate repeated in-situ measurement had conducted to confirm the exceedances. Checking with contractor works and review previous monitoring data.
				SS	9.50	18.42	27.54	Remarks/ Other Obs:	No marine activity was conducted under Contract HK/2012/08 on the monitoring date. Location of construction area was at downstream of monitoring station P5. In view of the above, the exceedance was considered not project related. No exceedance was recorded on the subsequent monitoring.



Ref no.	Date	Tidal	Location	Parameters (Unit)	Measured	Action Level	Limit Level	Follow-up action	
X_16W046	2-Sep-16	Mid-flood	WSD19	DO(mg/l)	4.19	3.17	2.63	Possible reason:	Natural variation or changes of water quality in the vicinity of water quality monitoring station.
				Turbidity	12.01	10.01	11.54	Action taken/ to be taken:	Immediate repeated in-situ measurement to confirm the exceedances. Checking with Contractor works and review previous monitoring data.
				SS	14.00	16.26	17.74	Remarks/ Other Obs:	Trimming of rock slope profile near Zone D was conducted under Contract HK/2012/08 on the monitoring date. Contractor mitigation measure including the use of silt curtain was generally in place. In view of the above, the exceedance was considered not project related.
X_16W047	2-Sep-16	Mid-flood	RW21-P789	DO(mg/l)	4.34	3.17	2.63	Possible reason:	Natural variation or changes of water quality in the vicinity of water quality monitoring station.
				Turbidity	11.10	10.01	11.54	Action taken/ to be taken:	Immediate repeated in-situ measurement to confirm the exceedances. Checking with Contractor works and review previous monitoring data.
				SS	10.50	16.26	17.74	Remarks/ Other Obs:	No marine activity was conducted under Contract HK/2009/02 on the monitoring date. The installed silt screen was generally in order. In view of no marine activity was conducted, the exceedance was considered not project related. No exceedance was recorded on the subsequent monitoring on 5 September 2016 during flood tide.
X_16W048	5-Sep-16	Mid-flood	WSD19	DO(mg/l)	5.46	3.17	2.63	Possible reason:	Natural variation or changes of water quality in the vicinity of water quality monitoring station.
				Turbidity	10.44	10.01	11.54	Action taken/ to be taken:	Immediate repeated in-situ measurement to confirm the exceedances. Checking with Contractor works and review previous monitoring data.
				SS	9.50	16.26	17.74	Remarks/ Other Obs:	Trimming of rock slope profile near Zone D was conducted under Contract HK/2012/08 on the monitoring date. Contractor mitigation measure including the use of silt curtain was generally in place. In view of the above, the exceedance was considered not project related. No exceedance was recorded on the subsequent monitoring on 5 September 2016 during ebb tide.
X_16W049	7-Sep-16	Mid-flood	WSD19	DO(mg/l)	4.29	3.17	2.63	Possible reason:	Natural variation or changes of water quality in the vicinity of water quality monitoring station.
				Turbidity	11.79	10.01	11.54	Action taken/ to be taken:	Immediate repeated in-situ measurement to confirm the exceedances. Checking with Contractor works and review previous monitoring data.
				SS	12.50	16.26	17.74	Remarks/ Other Obs:	Trimming of rock slope profile near Zone D was conducted under Contract HK/2012/08 on the monitoring date. Contractor mitigation measure including the use of silt curtain was generally in place. In view of the above, the exceedance was considered not project related. No exceedance was recorded on the subsequent monitoring on 7 September 2016 during ebb tide.



Ref no.	Date	Tidal	Location	Parameters (Unit)	Measured	Action Level	Limit Level	Follow-up action	
X_16W050	17-Sep-16	Mid-ebb	WSD19	DO(mg/l)	6.41	3.17	2.63	Possible reason:	Natural variation or changes of water quality in the vicinity of water quality monitoring station.
				Turbidity	18.62	10.01	11.54	Action taken/ to be taken:	Immediate repeated in-situ measurement to confirm the exceedances. Checking with Contractor works and review previous monitoring data.
				SS	16.00	16.26	17.74	Remarks/ Other Obs:	No marine activity was conducted under Contract HK/2012/08 on the monitoring date. Location of the construction activity was at the downstream of monitoring station WSD19 during monitoring period. In view of no marine activity was conducted, the exceedance was considered not project related. No exceedance was recorded on the subsequent monitoring on 17 September 2016 during flood tide.
X_16W051	19-Sep-16	Mid-ebb	WSD19	DO(mg/l)	5.53	3.17	2.63	Possible reason:	Natural variation or changes of water quality in the vicinity of water quality monitoring station.
				Turbidity	11.08	10.01	11.54	Action taken/ to be taken:	Immediate repeated in-situ measurement to confirm the exceedances. Checking with Contractor works and review previous monitoring data.
				SS	8.00	16.26	17.74	Remarks/ Other Obs:	No marine activity was conducted under Contract HK/2012/08 on the monitoring date. Location of the construction activity was at the downstream of monitoring station WSD19 during monitoring period. In view of no marine activity was conducted, the exceedance was considered not project related.
X_16W052	21-Sep-16	Mid-flood	WSD19	DO(mg/l)	5.32	3.17	2.63	Possible reason:	Natural variation or changes of water quality in the vicinity of water quality monitoring station.
				Turbidity	13.11	10.01	11.54	Action taken/ to be taken:	Immediate repeated in-situ measurement to confirm the exceedances. Checking with Contractor works and review previous monitoring data.
				SS	16.00	16.26	17.74	Remarks/ Other Obs:	No marine activity was conducted under Contract HK/2012/08 on the monitoring date. In view of no marine activity was conducted, the exceedance was considered not project related. No exceedance was recorded on the subsequent monitoring on 21 September 2016 during ebb tide.
X_16W053	21-Sep-16	Mid-flood	RW21-P789	DO(mg/l)	5.37	3.17	2.63	Possible reason:	Natural variation or changes of water quality in the vicinity of water quality monitoring station.
				Turbidity	10.34	10.01	11.54	Action taken/ to be taken:	Immediate repeated in-situ measurement to confirm the exceedances. Checking with Contractor works and review previous monitoring data.
				SS	13.00	16.26	17.74	Remarks/ Other Obs:	No marine activity was conducted under Contract HK/2009/02 on the monitoring date. The installed silt screen was generally in order. In view of no marine activity was conducted, the exceedance was considered not project related. No exceedance was recorded on the subsequent monitoring on 21 September 2016 during ebb tide.



Ref no.	Date	Tidal	Location	Parameters (Unit)	Measured	Action Level	Limit Level	Follow-up action	
X_16W054	23-Sep-16	Mid-flood	WSD19	DO(mg/l)	6.01	3.17	2.63	Possible reason:	Natural variation or changes of water quality in the vicinity of water quality monitoring station.
				Turbidity	15.45	10.01	-	Action taken/ to be taken:	Immediate repeated in-situ measurement to confirm the exceedances. Checking with Contractor works and review previous monitoring data.
				SS	14.50	16.26	17.74	Remarks/ Other Obs:	No marine activity was conducted under Contract HK/2012/08 on the monitoring date. In view of no marine activity was conducted, the exceedance was considered not project related. No exceedance was recorded on the subsequent monitoring on 26 September 2016 during ebb tide.
X_16W055	26-Sep-16	Mid-flood	WSD19	DO(mg/l)	6.02	3.17	2.63	Possible reason:	Natural variation or changes of water quality in the vicinity of water quality monitoring station.
				Turbidity	15.14	10.01	-	Action taken/ to be taken:	Immediate repeated in-situ measurement to confirm the exceedances. Checking with Contractor works and review previous monitoring data.
				SS	15.00	16.26	17.74	Remarks/ Other Obs:	No marine activity was conducted under Contract HK/2012/08 on the monitoring date. In view of no marine activity was conducted, the exceedance was considered not project related. No exceedance was recorded on the subsequent monitoring on 28 September 2016 during ebb tide.



Contract No. HK/2015/01 Wanchai Development Phase II and Central Wanchai Bypass Sampling, Field Measurement and Testing Work (Stage3) Summary for Notification of Exceedance

Lam Geotechnics Limited

Ref no.	Date	Tidal	Location	Depth	Parameters (Unit)	Measured	Action Level	Limit Level	Follow-up action	
X_16D0035	29-Aug-16	Mid-ebb	Ex-WPCWA SW	Middle	DO(mg/l)	2.16	3.19	3.10	Possible reason:	Possible in relation to the upstream organic discharge.
									Action taken/ to be taken:	Repeated the measurement to confirm the result. No odour nuisance was noted during the DO monitoring. Checking with Contractor works and review previous monitoring data.
									Remarks/ Other Obs:	Removal of D-wall at northern side of TPCWAW was conducted under Contract HY/2009/15 on the monitoring date, contractor mitigation measures including the use of silt curtain was in place. Upstream discharge from nearby culvert was noted. In view of the above, the exceedance was considered not related to Project works.
X_16D0036	29-Aug-16	Mid-flood	Ex-WPCWA SW	Middle	DO(mg/l)	2.13	3.19	3.10	Possible reason:	Possible in relation to the upstream organic discharge.
									Action taken/ to be taken:	Repeated the measurement to confirm the result. No odour nuisance was noted during the DO monitoring. Checking with Contractor works and review previous monitoring data.
									Remarks/ Other Obs:	Removal of D-wall at northern side of TPCWAW was conducted under Contract HY/2009/15 on the monitoring date, contractor mitigation measures including the use of silt curtain was in place. Upstream discharge from nearby culvert was noted. In view of the above, the exceedance was considered not related to Project works.
X_16D0037	29-Aug-16	Mid-flood	Ex-WPCWA SE	Surface	DO(mg/l)	3.33	3.55	3.00	Possible reason:	Possible in relation to the upstream organic discharge.
									Action taken/ to be taken:	Repeated the measurement to confirm the result. No odour nuisance was noted during the DO monitoring. Checking with Contractor works and review previous monitoring data.
									Remarks/ Other Obs:	Removal of D-wall at northern side of TPCWAW was conducted under Contract HY/2009/15 on the monitoring date, contractor mitigation measures including the use of silt curtain was in place. Upstream discharge from nearby culvert was noted. In view of the above, the exceedance was considered not related to Project works. No exceedance was recorded on the subsequent monitoring on 31 August 2016 ebb tide.
X_16D0038	31-Aug-16	Mid-ebb	Ex-WPCWA SW	Middle	DO(mg/l)	2.64	3.19	3.10	Possible reason:	Possible in relation to the upstream organic discharge and variation of water quality within Ex-PCWA area.
									Action taken/ to be taken:	Repeated the measurement to confirm the result. No odour nuisance was noted during the DO monitoring. Checking with Contractor works and review previous monitoring data.
									Remarks/ Other Obs:	Removal of D-wall at southern side of TPCWAW was conducted under Contract HY/2009/15 on the monitoring date, contractor mitigation measures including the use of silt curtain was in place. Upstream discharge from nearby culvert was noted. In view of the above, the exceedance was considered not related to Project works. No exceedance was recorded on the subsequent monitoring on 31 August 2016 flood tide.



Lam Geotechnics Limited

Ref no.	Date	Tidal	Location	Depth	Parameters (Unit)	Measured	Action Level	Limit Level	Follow-up action	
X_16D0038	2-Sep-16	Mid-ebb	Ex-WPCWA SW	Middle	DO(mg/l)	2.57	3.19	3.10	Possible reason:	Possible in relation to the upstream organic discharge and variation of water quality within Ex-PCWA area.
									Action taken/ to be taken:	Repeated the measurement to confirm the result. No odour nuisance was noted during the DO monitoring. Checking with Contractor works and review previous monitoring data.
									Remarks/ Other Obs:	Despite filling levelling stone for seawall reinstatement at Western side of TPCWAW and removal of D- wall at northern side of TPCWAW were conducted under Contract HY/2009/15, contractor mitigation measures including the use of silt curtain and impermeable barrier were implemented. Upstream discharge from nearby culvert was noted. In view of the above, the exceedance was considered not related to Project works. No exceedance was recorded on the subsequent monitoring on 2 September 2016 flood tide.



Appendix 9.1

Complaint Log



Environmental Complaints Log

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



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



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



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



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



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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	



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						so as to prevent recurrent by barge defect	
110723a	110723a 23/07/2011	Ms. Law at Victoria Centre by ICC no. 1- 303887687	North Point	She concerned that Highways 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)	No noise exceedance was recorded at construction noise monitoring station at Victoria Centre on 19 and 25 July 2011 during daytime while breaking and excavation works were undertaken during monitoring.	
		5)	In conclusion, it was related to the construction works under Contract HY/2009/15 and mitigation measure was provided. The complainant was satisfied with the arrangement and no further complaint was received after proposed measures.				
110723b	23/07/2011	Ms. Yau at Block	North Point	Reclamation work was	1)	It was referred by AECOM to ET on 8 August 2011	
		2, Victoria Centre by ICC no. 1- 304013959	no. 1-	conducted at Causeway Bay Typhoon Shelter at 7am on 23 July 2011. She complained that the works shall be started later to minimize the noise nuisance to the vicinity of the residents in early morning	2)	With reference to the construction noise monitoring at Vitoria Centre, no exceedance was recorded on 19 and 25 July 2011 during daytime while breaking and excavation works were undertaken during monitoring	
					3)	As a mitigation measure to minimize the noise nuisance in the vicinity of the residents, rock breaking activities will be started at 8am and is expected to be completed by mid- August 2011.	Closed
					4)	In conclusion, it was related to the construction works under Contract HY/2009/15 and mitigation measure was provided. The complainant was satisfied with the arrangement and no further complaint was received after proposed measures.	
110727a	27/07/2011	Mr. Law from Victoria Centre Management Office by ICC no. 1-304616162	North Point	It was complained by Mr. Law from Victoria Centre Management Office on 27 July 2011 regarding construction noise generated by the construction operations of	1) 2) 3)	It was referred by AECOM to ET on 28 July 2011 RSS confirmed to start the rock breaking activities for Contract HY/2009/15 at 8am as a mitigation measure to minimize the noise nuisance in the vicinity of the residents. No noise exceedance was recorded at construction noise	Closed



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



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



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



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



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



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



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



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



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



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141110	07/11/2014	EPD Ref.: H05/RS/000278 15-14	Construction site at old Wan Chai Ferry Pier	exhaust from the construction site at old Wan Chai Ferry Pier was scented that affecting the swimmers at Wan Chai Swimming Pool.	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	EPD complaint		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.
					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.	



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



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



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 and EPD



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



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



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



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



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



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



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



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



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



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



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



Appendix 10.1

Construction Programme of Individual Contracts

HK/2009/01 Roadworks, Drainage and Sewerage Works at Junction of Expo Drive and Expo Drive Central

W. A	Jul-16 Aug-16 Sep-16
Work activity Presenation	
Site clearance Hoarding erection	
2 not Temporary public light relocation	
Wheel washing bay demolition	
Sewerage	
Sewerage F1.1 -F1.2	
Trial Pit Escavation for manhole FL1 EL manhole construction (E.1.1)	
Trench excavation Pipe laving	
Backfilling and road reinstatement	
Sewerage F1.2 -F1.3	
Trench excavation Pine laving	
Hi mushole construction (F.1.2) Backfilling and read reinstatement	
Sewerage F1.3 -F1.4	
Grench excavation	
Pine laving D) manhole construction (P.1.3)	
Backfilling and reastatement	
Sewerage P1.4 ~P1.5 Trench excavation	
Pine laying	
D1 manhole construction (F1.4) Backfilling and read reinstatement	
Sewerage F1.4 - existing manbole	
Trench excavation Pipe Javing	
D1 manhole conduction (F.1.4) Backfilling and road reinstatement	
CCTV	
Air Test	
Connection Sevenage permission diversion	
Manholes benching medification (F1.1 and existing manhole)	
Stormwater Drainage	
Stormwater M1000 - M1001	
Trench excavation Pine laving	
D1 manhale construction (M1000) 2 new, suffy installation	
Backfilline and road reinstatement	
Stormwater M1001 ~ M1302 Trench excavation	
DI manhole construction (M1001)	
1 nos. gally installation	
Backfilling and road reinstatement	
Storm water M1302 - M1301 Trench escavation	
Pipe laving D1 manhole construction (M1301)	
2 nos. sully installation Backfilling and road reinstationing	
Stormwater M1302 - M1303	
Trends excavation	
Pipe leving DI manhole construction (M1302)	
1 nos, sully installation Backfilling and read reinstituenen:	
Stormwater M1303 - M1304	
Trench excavation Pipe laying	
D1 manbole construction (M1303)	
1 nos. gully installation Backfilling and road relationers	
Stormwater M1304 ~ Tunnel Carrier Desin	
Trench excavation Pipe laying	
D1 manhole construction (M1304) Backfilling and read reinstatement	
Testing	
CCTV	
Air Test	
Road side barrier and K1 Kerb along SR02	
Excavation Present Kerb installation along SR02	
Road side barrier along w02	
Public Lighting and hammer head island	
Excavation Datas laving at west hammer head and precast drawpit installation	
Cross ducts laying Ducts laying at east humanar head and presset drawpit installation	
Cabling by others Public Lighting Installation	
Precast Kerb Installation at west hummer head	
Precast Kerb installation at east harmer bead Precast Kerb installation at Central island	
Road Pavement	
Road Pavement Type I	

HKCEC's Event Move In/Out Date TTA at Expo Drive is required to deck over

ity ID	Activity Name	Rem Dur	Start	Finish	Total Float	2016 September
	2046 to New 2046	139	20-Jun-15 A	03-Feb-17	500	21 28 04 11 18 25 02 0
	2016 to Nov 2016 INSTRUCTION WORKS		20-Jun-15 A	03-Feb-17	220	
	Statement / Shop Drawings	76		03-Nov-16	358	
0230-1380	MS Landscape Deck Structure - Submission	11	20-Jun-15 A	31-Aug-16	261	MS Landscape Deck Structure - Submission
0230-1390	MS Landscape Deck Structure - ER Review & Comment	28	31-Aug-16	28-Sep-16	261	Mis Landscape Deck en dour - Outmission
0230-1400	MS Landscape Deck Structure - Resubmission	28	28-Sep-16	26-Oct-16	261	
0240-1230	HGHK Carpark - Application for BD Consent (BA8)	0	21-Jun-16 A	16-Aug-16 A	201	HK Carpark - Application for BD Consent (BA8)
0240-1230	HGHK Carpark - Application for DD Consent (DA0)	0	21-5011-10 A	16-Aug-16 A		HK Carpark - BD Consent Received
0240-1240	HGHK Carpark - BD Consent Received HGHK Carpark - Resubmit ammended Design as Req'd by HGHK to change 900H to 2400H	12	25-Aug-16*	05-Sep-16	0	HGHK Carpark - Resubmit ammended Design as Rec
0240-1241	boundary wall at Phase II (by AECOM)	12	23-Aug-10	05-3ep-10	0	
0240-1250	HGHK Carpark - Commencement Notification to BD (BA10)(A&A Works)	12	17-Aug-16 A	31-Aug-16	36	HGHK Carpark - Commencement Notification to BD (BA10)(A
0240-1270	Landscaping Design - Submission	20	20-Apr-16 A	08-Sep-16	358	Landscaping Design - Submission
0240-1280	Landscaping Design - ER Review/Resubmission	28	09-Sep-16	06-Oct-16	358	Lands
0240-1290	Landscaping Design - ER Approval	28	07-Oct-16	03-Nov-16	358	
0240-1298	Green Roof Minimum 2 years Establishment - Start	0	14-Sep-16		-6	 Green Roof Minimum 2 years Establishn
0240-2460	MS for for trial erection of green roof - Resubmission	10	04-Apr-16 A	29-Aug-16	-6	MS for for trial erection of green roof - Resubmission
0240-2470	MS for for trial erection of green roof - No Adverse Comment	15	30-Aug-16	13-Sep-16	-6	MS for for trial erection of green roof - N
A2050	MS for Dismantling of LG-A at Pier 44-46 - Submission	0	25-Jul-16 A	29-Jul-16 A		ier 44-46 - Submission
A2060	MS for Dismantling of LG-A at Pier 44-46 - ER Review / Comment	6	20-Aug-16	25-Aug-16	6	MS for Dismantling of LG-A at Pier 44-46 - ER Review / Comment
A2070	MS for Dismantling of LG-A at Pier 44-46 - Resubmission	6	26-Aug-16	31-Aug-16	6	MS for Dismantling of LG-A at Pier 44-46 - Resubmission
42080	MS for Dismantling of LG-A at Pier 44-46 - No Adverse Comment	6	01-Sep-16	06-Sep-16	6	MS for Dismantling of LG-A at Pier 44-46 - No Adve
42090	MS for Demolition Eastbound Bridge - Submission	6	15-Sep-16*	20-Sep-16	9	MS for Demolition Eastbound E
A2100	MS for Demolition Eastbound Bridge - ER Review / Comment	6	21-Sep-16	26-Sep-16	9	MS for Demolition East
A2110	MS for Demolition Eastbound Bridge - Resubmission	6	27-Sep-16	02-Oct-16	9	MS for Dem
A2120	MS for Demolition Eastbound Bridge - No Adverse Comment	6	03-Oct-16	08-Oct-16	9	MS
2.5 - Bridge S	Segment/Beam Off-site Precasting	132	29-Aug-16	03-Feb-17	151	
0250-3940	Bridge F2B - Pier F3B2 Segment - 5 nos. (S2)	16	01-Nov-16	18-Nov-16	21	······
0250-3940.1	Bridge F2B - Pier F3B2 Segment - 5 nos. (Delivery to Site)	5	19-Nov-16	24-Nov-16	104	
250-4000	Bridge F3B - Pier F5B Segment - 6 nos. (S2)	19	23-Sep-16	17-Oct-16	3	
0250-4000.1	Bridge F3B - Pier F5B Segment - 6 nos. (Delivery to Site)	6	18-Oct-16	24-Oct-16	97	
0250-4020	Bridge F3B - Pier F6B Segment - 13 nos. (S2)	32	25-Oct-16	30-Nov-16	3	
0250-4020.1	Bridge F3B - Pier F6B Segment - 13 nos. (Delivery to Site)	10	01-Dec-16	12-Dec-16	45	
0250-4070	Bridge F1B1 - Abut D12 Segment - 5 nos. (T)	18	29-Aug-16*	19-Sep-16	3	Bridge F1B1 - Abut D12 Segme
0250-4070.1	Bridge F1B1 - Abut D12 Segment - 5 nos. (Delivery to Site)	5	27-Jan-17	03-Feb-17	151	
0250-4080	Bridge F1B1 - Pier F1B1 Segment - 13 nos. (T)	32	20-Sep-16	28-Oct-16	3	
0250-4080.1	Bridge F1B1 - Pier F1B1 Segment - 13 nos. (Delivery to Site)	10	16-Jan-17	26-Jan-17	142	
0250-4090	Bridge F1B1 - Pier F2B1 Segment - 11 nos. (T)	28	29-Oct-16	30-Nov-16	142	
0250-4090.1	Bridge F1B1 - Pier F2B1 Segment - 11 nos. (Delivery to Site)	10	04-Jan-17	14-Jan-17	142	
		90	12-May-16 A		-210	
- SECTIO	N 2 & 2A OF THE WORKS	30	12 May TOA		210	

Remaining Level of Enon	•
Actual Level of Effort	
Actual Work	

Three Months Rolling Programme (20 Aug to 19 Nov 2016)

Remaining Work

Critical Remaining Work

	ober			Nove	ember	
09	16	23	30	06	13	20
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e Deck Stru	icture - ER	Review &	Comment			
		MS	Landscap	e Deck Stru	ucture - Re	submissi
Deviden		h 000		I have dam		II /h.
s Req a by	HGHK to c	hange 900	H to 2400	H boundary	wali at Ph	ase II (b)
10)(A&A W	orks)		1			
andscapino	Desian -	ER Review	/Resubmis	ssion		
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- No Adve	erse Comm	ent				
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Adverse Co	omment					
und Bridge	- Submissi	on				
		ER Reviev		ant		
		Bridge - F			_	
MS for D	emolition E	astbound E	Bridge - N	o Adverse (Comment	
						Bridge F
	Bridge	e F3B - Pier	F5B Segi	ment - 6 no	s. (S2)	
		Bridge	F3B - Pie	r F5B Segr	nent - 6 no	s. (Deliv
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gment - 5 r	10S. (1)					
			Bridge F1I	B1 - Pier F	IB1 Segme	ent - 13 r
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		Page	1 of 7			
		i age	101/			

vity ID	Activity Name		Rem	Start	Finish	Total	
			Dur			Float	
05.1 - Cut & Co	ver Tunnel Ch 4855-4932 (APS Footprint)		90	12-May-16 A	06-Dec-16	-210	
05.1.6 - EVB Su	b-structure & Tunnel		90	12-May-16 A	06-Dec-16	-210	
05.1.6 - EVB O	utstanding Works		90	12-May-16 A	06-Dec-16	-211	
0515-3099	Complete EVB Outstanding Works		0		06-Dec-16*	-211	
0710-0900	Water proofing system (external) - Stage 1		5	12-May-16 A	25-Aug-16	-211	Water proofing system (external) - Stage 1
0710-1000	Backfill (N46-64/S48-67) for East Vent Bldg - Stage 1		35	27-Jun-16 A	30-Sep-16	-211	Backfill
A1960	Reinstate the temporary opening		35	20-Aug-16	30-Sep-16	-156	Reinsta
A1961	Water proofing system (external) - Stage 2		7	03-Oct-16	11-Oct-16	-211	
A1962	Backfill (N46-64/S48-67) for East Vent Bldg - Stage 2		43	12-Oct-16	30-Nov-16	-211	
A1963	Concrete paving / Finishing surface		5	01-Dec-16	06-Dec-16	-211	
A1980	Remove of temporary sheet pile cover		30	26-Aug-16	30-Sep-16	-156	Remove
A1990	Water proofing system (internal)		35	05-Aug-16 A	30-Sep-16	-156	Water p
05.1.7 - EVB &	Tunnel Remedial Works		35	05-Aug-16 A	30-Sep-16	-155	
A2030	Tunnel - Pump Sump E > Rectification of Reserve Pipe &	Gen Cleaning Works	10	20-Aug-16	31-Aug-16	-131	Tunnel - Pump Sump E > Rectification of Reserve Pip
A2040	Tunnel - OHVD (Eastern Side) > Rectification of Water	Seepage	23	20-Aug-16	15-Sep-16	-156	Tunnel - OHVD (Eastern Side
A2250	Tunnel - OHVD (Western Side) > Rectification of Structu	Iral Concrete Defect	15	31-Aug-16	17-Sep-16	-144	Tunnel - OHVD (Western S
A2260	Tunnel - OHVD (Western Side) > Rectification of Water	Seepage	12	17-Sep-16	30-Sep-16	-156	Tunnel
A2270	Tunnel - APS > Rectification of Structural Concrete Defe	ct & Gen Cleaning Works	14	31-Aug-16	15-Sep-16	-144	Tunnel - APS > Rectification of
A2280	EVB - Rectification of Structural Defects at Stairs 03		10	05-Aug-16 A	31-Aug-16	-156	EVB - Rectification of Structural Defects at Stairs 03
A2290	EVB - Rectification of Structural Defects at Stairs 01		9	01-Sep-16	10-Sep-16	-156	
A2300	EVB - Rectification of Structural Defects at Stairs 02		16	12-Sep-16	30-Sep-16	-156	
A2310	EVB - (Western Side) > Rectification of Structural Concr	ete Defect & Gen Cleaning Works	10	20-Aug-16	31-Aug-16	-156	
A2320	EVB - (Eastern Side) > Rectification of Structural Concre	-	25	01-Sep-16	30-Sep-16	-156	;;;;;;;;
A2330	EVB - Rectification of Defects to Water Tanks		10	20-Aug-16	31-Aug-16	-131	
			50	07-Sep-16	08-Nov-16	42	
	N 6 OF THE WORKS s for Harbour Grand Hong Kong		50	07-Sep-16	08-Nov-16	42	
0910-1003	HGHK Carpark Work Commenced		0		07-Sep-16	28	♦ HGHK Carpark Work Commenced
0910-1003	Demo > Gen Clearance, Plant/Tile/Slab Removal (Part 1)	7	08-Sep-16	15-Sep-16	28	Demo > Gen Clearance, Plant/
)					
0910-1007.1	Drainage Construction		10	17-Sep-16	28-Sep-16	42	
0910-1007.2	E&M Manhole Const. and Waterpipe Installations		5	29-Sep-16	05-Oct-16	42	
0910-1007.3	3000H Feature Wall (RC)		10	06-Oct-16	18-Oct-16	42	
0910-1007.4	900H Boundary Wall (RC)		8	06-Oct-16	15-Oct-16	42	
0910-1007.5	Planter Box (RC)		10	06-Oct-16	18-Oct-16	42	
0910-1010	Carprk Base Slab Works (Partial - Portion IVB)		18	19-Oct-16	08-Nov-16	42	
0910-1050	Demo > Gen Clearance, Plant/Tile/Slab Removal (Part I)	9	03-Oct-16	13-Oct-16	28	
	N X OF THE WORKS		78	20-Jun-16 A	22-Nov-16	561	
-	ges (Bridge C and F)		71	20-Jun-16 A		311	
	m & Pile Caps Extension		40		07-Oct-16		
1021-2300	Pier 26 > Pile Cap Ext Excavation & ELS Works		0	08-Aug-16 A	17-Aug-16 A		r 26 > Pile Cap Ext Excavation & ELS Works
Actual Leve		Three Me	ntha P		tract HY		
Actual Wor		i nree MO	nuis R		rogram	me ((20 Aug to 19 Nov 2016)
0	naining Work						

Oc	tober			Nove	ember	
09	16	23	30	06	13	20
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64/S48-	67) for Eas	t Vent Bldg -	Stage 1			
tempora	ary opening	J				
Wat	er proofing	system (exte	rnal) - S	tage 2		
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	(ab a at pilo					
	y sheet pile					
ng syster	m (internal)					
en Clea	ning Works					
ectificatio	on of Water	Seepage	1			
> Rectific	cation of Str	uctural Conc	rete Def	ect		
VD (We	stern Side)	> Rectificatio	n of Wa	ter Seepag	е	
		ect & Gen Cle	; 			
Stairs 01						
	Charles the set of					
		Defects at Sta	401S 02			
		ning Works	 			
rn Side)	> Rectificat	ion of Structu	ral Con	crete Defec	t & Gen Cl	eaning V
Slab Ren	noval (Part	1)				
ruction						
	Const and	d Waterpipe	Installati	ากร		
mannut			1			
		H Feature W	1	1		
		undary Wall (қС)			
	Plant	ter Box (RC)				
			1	Carp	ork Base Sl	ab Work
 D	emo > Ger	n Clearance,	Plant/Til	e/Slab Rem	ioval (Part	II)
			- - - - - -			
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		n -	c -			
		Page 2	of 7			

ivity ID	Activity Name	Rem	Start	Finish	Total			A	-		2016
		Dur			Float	21 2	8 04	Septer	nber 18	25	02
1021-2320	Pier 26 > Pile Cap Ext Post Drilling & Rebar Fixing Works	11	18-Aug-16 A	01-Sep-16	14		Pier 26 >	Pile Cap E>	t Post Dri		par Fixing Work
1021-2330	Pier 26 > Pile Cap Ext Formworks & Concreting Works	6	02-Sep-16	08-Sep-16	14	-		Pier 26 >	Pile Cap Ext	Formw	orks & Concreti
1021-2340	Pier 26 > Pile Cap Ext Remove Fwk & Backfilling	4	09-Sep-16	13-Sep-16	14			Pie	er 26 > Pile (Cap Ext	Remove Fwk &
1021-2360	Pier 26 > Tie Beam Post Drilling & Rebar Fixing Works	0	16-Jul-16 A	30-Jul-16 A		ing & Rebar Fixir	g Works				
1021-2370	Pier 26 > Tie Beam Formworks & Concreting Works	0	28-Jul-16 A	10-Aug-16 A		Beam Formwo	ks & Concre	ting Works			
1021-2380	Pier 26 > Tie Beam Remove Fwk & Backfilling	7	11-Aug-16 A	27-Aug-16	14	Pie	26 > Tie Be	am Remov	e Fwk & Ba	ackfilling	
1021-2420	Pier 27 > Tie Beam Remove Fwk & Backfilling	0	21-Jul-16 A	12-Aug-16 A		īe Beam Remo	we Fwk & Ba	ackfilling			
1021-2430	Pier 28 > Tie Beam - Excavation & ELS Works	0	08-Jul-16 A	21-Jul-16 A		rks					
1021-2440	Pier 28 > Tie Beam Post Drilling & Rebar Fixing Works	0	22-Jul-16 A	15-Aug-16 A		8 > Tie Beam F	ost Drilling &	Rebar Fixin	g Works		
1021-2450	Pier 28 > Tie Beam Formworks & Concreting Works	0	12-Aug-16 A	15-Aug-16 A		8 > Tie Beam F	ormworks &	Concreting	Works		
1021-2460	Pier 28 > Tie Beam Remove Fwk & Backfilling	4	20-Aug-16	24-Aug-16	141	Pier 28	> Tie Beam	Remove Fv	vk & Backfill	ing	
A1920	Pier 28 > Tie Beam - Excavation & ELS Works	0	05-Aug-16 A	09-Aug-16 A		eam - Excavation	& ELS Work	S			
A1930	Pier 23 > Tie Beam Post Drilling & Rebar Fixing Works	7	10-Aug-16 A	27-Aug-16	301	Pie	23 > Tie Be	am Post D	rilling & Reb	ar Fixing V	Works
A1940	Pier 23 > Tie Beam Formworks & Concreting Works	4	29-Aug-16	01-Sep-16	301		Pier 23 >	• Tie Beam	Formwork	s & Concre	ting Works
A1950	Pier 23 > Tie Beam Remove Fwk & Backfilling	4	22-Sep-16	26-Sep-16	301	-				Pier	23 > Tie Beam.
A2130	Pier 25 > Tie Beam - Excavation & ELS Works	5	13-Sep-16	19-Sep-16	18				Pier 2	25 > Tie Be	eam - Excavatio
A2140	Pier 25 > Tie Beam Post Drilling & Rebar Fixing Works	7	20-Sep-16	27-Sep-16	18	-				Pie	r 25 > Tie Bear
A2150	Pier 25 > Tie Beam Formworks & Concreting Works	4	28-Sep-16	03-Oct-16	18	-					Pier 25 >
A2160	Pier 25 > Tie Beam Remove Fwk & Backfilling	4	04-Oct-16	07-Oct-16	18						Pie
A2170	Pier 22 > Tie Beam - Excavation & ELS Works	5	02-Sep-16	07-Sep-16	301	-		Pier 22 > Ti	e Beam - Ex	xcavation &	& ELS Works
A2180	Pier 22 > Tie Beam Post Drilling & Rebar Fixing Works	7	08-Sep-16	15-Sep-16	301	-	[Pier 22 > T	ie Beam	Post Drilling &
A2190	Pier 22 > Tie Beam Formworks & Concreting Works	4	17-Sep-16	21-Sep-16	301	-			Pi	ier 22 > Tie	Beam Form
A2200	Pier 22 > Tie Beam Remove Fwk & Backfilling	4	22-Sep-16	26-Sep-16	301					Pier	22 > Tie Beam.
A2210	Pier 24 > Tie Beam - Excavation & ELS Works	5	17-Aug-16 A	25-Aug-16	18	Pier 24	1 > Tie Beam	- Excavation	& ELS Wo	rks	
A2220	Pier 24 > Tie Beam Post Drilling & Rebar Fixing Works	7	26-Aug-16	02-Sep-16	18		Pier 24	> Tie Beam	- Post Drilli	ing & Reba	ar Fixing Works
A2230	Pier 24 > Tie Beam Formworks & Concreting Works	4	03-Sep-16	07-Sep-16	18			Pier 24 > Ti	e Beam F	ormworks	& Concreting V
A2240	Pier 24 > Tie Beam Remove Fwk & Backfilling	4	08-Sep-16	12-Sep-16	18		(Pier	24 > Tie Be	eam Ren	pove Fwk & Ba
10.2.3 - Bridge	Construction	71	20-Jun-16 A	14-Nov-16	311						
Bridge C1		55	20-Jun-16 A	26-Oct-16	32						
1022-1003.3	Bridge C1 - Construct South Parapet Pier 17-21 W/B - Rebar & Cast-in Fixing	9	27-Jul-16 A	30-Aug-16	-4		Bridge C1 -	Construct S	outh Parape	et Pier 17-	21 W/B - Reba
1022-1003.4	Bridge C1 - Construct South Parapet Pier 17-21 W/B - Shutter Installation	9	23-Aug-16	01-Sep-16	-4		Bridge C	1 - Construc	t South Par	apet Pier	17-21 W/B - Sh
1022-1003.5	Bridge C1 - Construct South Parapet Pier 17-21 W/B - Concreting	8	26-Aug-16	03-Sep-16	-4		Bridge	e C1 - Const	ruct South F	Parapet Pi	er 17-21 W/B -
1022-1004	Bridge C1 - Construct Int. Single Noise Encl. (South) Pier 17-22 Stage 0 - Base Plate & Main Post	8	05-Sep-16	13-Sep-16	-4			Bri	dge C1 - Co	onstruct In	t. Single Noise
1022-1004.2	Bridge C1 - Construct Int. Single Noise Encl. (South) Pier 17-22 Stage 0 - Secondary Farmes & Panels (Vertical)	14	14-Sep-16	30-Sep-16	-4						Bridge C1 - C
1022-2754	Bridge C1 - Construction (Pier 21- 22)-Part 1 > Construct Parapet (North & South)	0	20-Jun-16 A	15-Aug-16 A		e C1 - Constructi	on (Pier 21- 2	2)-Part 1 >	Construct P	arapet (N	orth & South)
1022-2755	Bridge C1 - Construction (Pier 21-22) > Install Street Furniture/GullyEtc.	14	21-Jun-16 A	05-Sep-16	17		Br	idge C1 - Co	nstruction (Pier 21-22) > Install Stree
1022-2756	Bridge C1 - Construction (Pier 21-22) > Install MJ at Pier 22	14	20-Aug-16	05-Sep-16	17		Br	idge C1 - Co	nstruction (Pier 21-22) > Install MJ at
1022-3100	Bridge C1 - Construct North Parapet Pier 19-20 W/B	14	11-Oct-16	26-Oct-16	32						

Remaining Level of Effort
 Milestone

- Actual Level of Effort
- Actual Work
- Remaining WorkCritical Remaining Work

Contract HY/2009/19 Three Months Rolling Programme (20 Aug to 19 Nov 2016)

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& Backfill	ing							
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		Jackhing						
on & ELS								
		Rebar Fixing	1					
> Tie Bea	am Forma	works & Con	creting V	Vorks				
er 25 > T	īe Beam	Remove Fw	k & Back	filling				
Rebar F	ixing Work	s						
works &	Concreting	g Works						
Remo	ove Fwk & I	Backfilling						
Vorks								
ckfilling								
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r & Cast	-in Fixing							
nutter Ins	stallation							
Concre	ting							
Encl. (So	outh) Pier 1	7-22 Stage	o - Base	Plate & Ma	ain Post			
Construc	t Int. Single	Noise Encl. ((South) I	Pier 17-22	Stage 0 - Stage	Seconda		
4 F			-					
	ure/GullyEto		1					
t Pier 22			1					
		Bridg	ė C1 - C	Construct N	orth Parape	et Pier 1		
		Page 3	of 7					

ity ID	Activity Name	Rem Dur	Start	Finish	Total Float	2016 September
10100			05.0	40.0 40		21 28 04 11 18 25 02
A2400	Pier 17 - MJ	6	05-Sep-16	10-Sep-16	-3	Pier 17 - MJ
A2410	Pier 18 - MJ	6	05-Sep-16	10-Sep-16	-3	Pier 18 - MJ
A2420	Pier 19 - MJ	6	12-Sep-16	19-Sep-16	-3	Pier 19 - MJ
A2430	Pier 20 - MJ	6	20-Sep-16	26-Sep-16	-3	Pier 20 - MJ
A2440	Pier 21 - MJ (remaining small part at wing extension)	3	27-Sep-16	29-Sep-16	-3	Pier 21 - MJ (re
Bridge C2		71	28-Jun-16 A	14-Nov-16	311	
1022-2830	Dismantle LG2	0	28-Jun-16 A			
1022-3040	Bridge C2 - Construct North Parapet - Precast Skin Wall Installation	0	09-Aug-16 A	19-Aug-16 A		Bridge C2 - Construct North Parapet - Precast Skin Wall Installation
1022-3040.2	Bridge C2 - Construct North Parapet - Rebar & Cast-in Fixing	6	20-Aug-16	26-Aug-16	-5	Bridge C2 - Construct North Parapet - Rebar & Cast-in Fixing
1022-3040.4	Bridge C2 - Construct North Parapet - Shutter Installation	5	24-Aug-16	29-Aug-16	-5	Bridge C2 - Construct North Parapet - Shutter Installation
1022-3040.6	Bridge C2 - Construct North Parapet - Concreting	6	30-Aug-16	05-Sep-16	-5	Bridge C2 - Construct North Parapet - Concreting
1022-3180	Bridge C2 - Construct South Parapet - Precast Skin Wall Installation	0	12-Aug-16 A	17-Aug-16 A		dge C2 - Construct South Parapet - Precast Skin Wall Installation
1022-3180.2	Bridge C2 - Construct South Parapet - Rebar & Cast-in Fixing	6	18-Aug-16 A	26-Aug-16	-4	Bridge C2 - Construct South Parapet - Rebar & Cast-in Fixing
1022-3180.4	Bridge C2 - Construct South Parapet - Shutter Installation	5	20-Aug-16	25-Aug-16	-4	Bridge C2 - Construct South Parapet - Shutter Installation
1022-3180.6	Bridge C2 - Construct South Parapet - Concreting	6	26-Aug-16	01-Sep-16	-4	Bridge C2 - Construct South Parapet - Concreting
1022-4120	Bridge C2 - Construct Int. Single Noise Encl. Bridge C2 - Excl. Pier 25-22 - Base Plate & Main Post	8	06-Sep-16	14-Sep-16	-5	Bridge C2 - Construct Int. Single Noise
1022-4120.1	Bridge C2 - Construct Int. Single Noise Encl. Bridge C2 - Excl. Pier 25-22 - Main Frames	8	15-Sep-16	24-Sep-16	-5	Bridge C2 - Construct I
1022-4120.2	Bridge C2 - Construct Int. Single Noise Encl. Bridge C2 - Excl. Pier 25-22 - Secondary Farmes & Panels(50%)	14	20-Sep-16	06-Oct-16	-5	Bridg
1022-4120.3	Bridge C2 - Construct Int. Single Noise Encl. Bridge C2 - Excl. Pier 25-22 - Complete Panel Installation	30	11-Oct-16	14-Nov-16	311	
1022-4140	Bridge C2 + C1 Deck Road Waterproofing, Surfacing & Marking	3	04-Oct-16	06-Oct-16	-5	Bridg
A2390	Pier 25 - MJ	14	02-Sep-16	19-Sep-16	6	Pier 25 - MJ
Bridge C3		37	25-Jul-16 A	04-Oct-16	-4	
1022-4110	Bridge C3 - Construct Int. Single Noise Encl. Bridge C3 - Base Plate & Main Post - Part 1	0	25-Jul-16 A	19-Aug-16 A		Bridge C3 - Construct Int. Single Noise Encl. Bridge C3 - Base Plate & Main Pos
1022-4110.1	Bridge C3 - Construct Int. Single Noise Encl. Bridge C3 - Main Frames - Part 1	10	20-Aug-16	31-Aug-16	7	Bridge C3 - Construct Int. Single Noise Encl. Bridge C3 - Mai
1022-4110.2	Bridge C3 - Construct Int. Single Noise Encl. Bridge C3 - Secondary Farmes & Panels - Part 1	10	01-Sep-16	12-Sep-16	7	Bridge C3 - Construct Int. Single Noise En
1022-4110.3	Bridge C3 - Precast Skin Wall Installation at Temporay access/Opening	2	31-Aug-16	01-Sep-16	-4	Bridge C3 - Precast Skin Wall Installation at Temporay acce
1022-4110.4	Bridge C3 - Construct Parapet at Temporay access/Opening	5	02-Sep-16	07-Sep-16	-4	Bridge C3 - Construct Parapet at Temporay acces
1022-4110.5	Bridge C3 - Construct Int. Single Noise Encl. Bridge C3 - Base Plate & Main Post - Part 2	5	08-Sep-16	13-Sep-16	-4	Bridge C3 - Construct Int. Single Noise E
1022-4110.6	Bridge C3 - Construct Int. Single Noise Encl. Bridge C3 - Main Frames - Part 2	7	14-Sep-16	22-Sep-16	-4	Bridge C3 - Construct Int.
1022-4110.7	Bridge C3 - Construct Int. Single Noise Encl. Bridge C3 - Secondary Farmes & Panels - Part 2	7	19-Sep-16	26-Sep-16	-4	Bridge C3 - Constru
1022-4111	Bridge C3 - Deck Road Waterproofing, Surfacing & Marking	6	27-Sep-16	04-Oct-16	-4	Bridge (
A2380	Pier 28 - MJ	14	20-Aug-16	05-Sep-16	13	9
Bridge C4		37	01-Jul-16 A	04-Oct-16	-4	
1022-1558.1	Bridge C4 - Construct Int. Single Noise Encl. Bridge C4 - Main Frames	0	01-Jul-16 A	25-Jul-16 A		e Encl. Bridge C4 - Main Frames
1022-1558.2	Bridge C4 - Construct Int. Single Noise Encl. Bridge C4 - Secondary Farmes & Panels	2	05-Jul-16 A	22-Aug-16	2	Bridge C4 - Construct Int. Single Noise Encl. Bridge C4 - Secondary Farm
1022-1564				-		Bildge C4 - Construct Int. Single Noise Link. Bildge C4 - Secondary Farm
	Bridge C4 - Deck Road Waterproofing, Surfacing & Marking	6	27-Sep-16	04-Oct-16	-4	
A2370	Pier 32 - MJ	20	29-Jul-16 A	20-Aug-16	26] Pier 32 - MJ
Bridge C5		38	30-Jun-16 A	05-Oct-16	-4	
Remaining I Actual Leve Actual Work	Three Mont	hs F		tract HY rogrami		9/19 20 Aug to 19 Nov 2016)

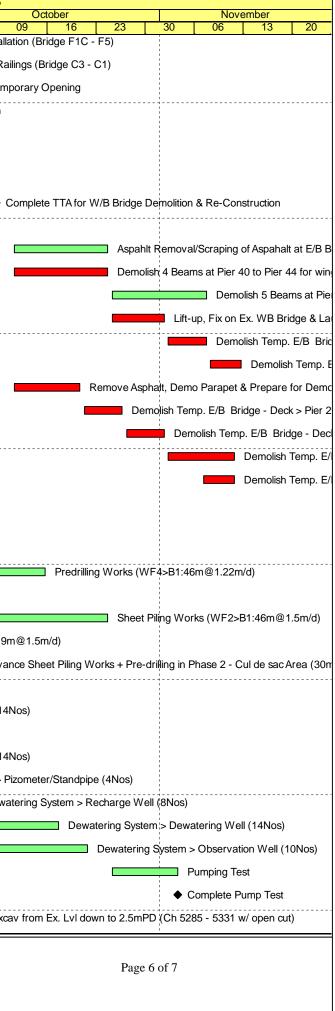
Remaining WorkCritical Remaining Work

October			November						
09	16	23	30	06	13	20			
emainir	ng small part	at wing exter	rsion)						
- Frai		Fuel Disc OF	00 D-						
	-	Excl. Pier 25-	1						
		ncl. Bridge C2	1						
lge C2 -	Construct I	nt. Single Noi	se Encl.	Bridge C2	- Excl. Pie	r 25-22 -			
					Bridge	e C2 - Co			
lge C2 -	+ C1 Deck R	oad Waterpr	oofing, s	Surfacing &	Marking				
ost - Par	't 1		1						
ain Frai	mes - Part 1								
Encl. Brid		condary Farm	ies & Pa	anels - Part	1				
ess/Ope	-								
	-	ase Plate & N	ain Pos	t - Part ?					
	-	Bridge C3 - N			2				
•		•	1						
		Encl. Bridge aterproofing,							
nes & P	anels								
C4 - D	eck Road W	aterproofing,	Surfacii	ng & Markir	ng				
		Page 4	of 7						

Ac	tivity ID	Activity Name		Rem	Start	Finish	Total	2016
				Dur			Float	September 21 28 04 11 18 25 02
	1022-3953.1	Bridge C5 - Construct Int. Single Noise Encl. Bridge C5	Main Frames	3	30-Jun-16 A	23-Aug-16	-14	Bridge C5 - Construct Int. Single Noise Encl. Bridge C5 - Main Frames
	1022-3953.2	Bridge C5 - Construct Int. Single Noise Encl. Bridge C5	Secondary Frames & Panels	14	05-Aug-16 A	05-Sep-16	-14	Bridge C5 - Construct Int. Single Noise Encl. Bridge C
	1022-3954	Bridge C5 - Deck Road Waterproofing, Surfacing & Mar	king	7	27-Sep-16	05-Oct-16	-4	Bridge
	Bridge F1C			38	12-Aug-16 A	05-Oct-16	-4	
	1022.1-4247	Bridge F1C - Construct Int. Double Noise Encl. Bridge F	1C - Base Plate & Main Post	12	12-Aug-16 A	02-Sep-16	2	Bridge F1C - Construct Int. Double Noise Encl. Bridge F1
	1022.1-4248	Bridge F1C - Construct Int. Double Noise Encl. Bridge F	1C - Main Frames	14	27-Aug-16	12-Sep-16	2	Bridge F1C - Construct Int. Double Noise
	1022.1-4249	Bridge F1C - Construct Int. Double Noise Encl. Bridge F	1C - Secondary Farmes & Panels	14	02-Sep-16	19-Sep-16	2	Bridge F1C - Construct Int. Dou
	1022.1-4251	Bridge F1C - Bridge F1C Deck Road Waterproofing, Su	Irfacing & Marking	7	27-Sep-16	05-Oct-16	-4	Bridge
	Bridge F2C			38	16-Aug-16 A	05-Oct-16	-4	
	1022.1-4363.1	Bridge F2C - Construct Int. Double Noise Encl. (54m) -	Base Plate & Main Post	9	29-Aug-16	07-Sep-16	-4	Bridge F2C - Construct Int. Double Noise Encl. (5
	1022.1-4363.2	Bridge F2C - Construct Int. Double Noise Encl. (54m) -	Main Frames	10	05-Sep-16	15-Sep-16	-4	Bridge F2C - Construct Int. Double N
	1022.1-4363.3	Bridge F2C - Construct Int. Double Noise Encl. (54m) -	Secondary Farmes & Panels	12	12-Sep-16	26-Sep-16	-4	Bridge F2C - Constr
	1022.1-4369	Bridge F2C - Deck Road Waterproofing, Surfacing & Ma	arking	7	27-Sep-16	05-Oct-16	-4	Bridge
	A2360	Pier 38 - MJ		11	16-Aug-16 A	01-Sep-16	16	Pier 38 - MJ
	Bridge F3C			70	22-Aug-16	14-Nov-16	311	
	1022.1-4525	Bridge F3C - Construct South Parapet (83m)		13	22-Aug-16	05-Sep-16	-6	Bridge F3C - Construct South Parapet (83m)
	1022.1-4530	Bridge F3C - Construct Int. Double Noise Encl. Bridge F	3C (83m) - Stage 1(Install 50% Panel)	24	06-Sep-16	05-Oct-16	-6	Bridge
	1022.1-4531	Bridge F3C - Construct Int. Double Noise Encl. Bridge F	3C (83m) - Stage 2(Complete Panel)	30	11-Oct-16	14-Nov-16	311	
	1022.1-4535	Bridge F3C - Deck Road Waterproofing, Surfacing & Ma		3	06-Oct-16	08-Oct-16	-6	Br
	A2350 Pier 40 - MJ			14	06-Sep-16	22-Sep-16	4	Pier 40 - MJ
	Bridge F5			41	18-Aug-16 A	08-Oct-16	-6	
	1022.1-5006	Planking at Bridge F5		1	18-Aug-16 A	20-Aug-16	-6	Planking at Bridge F5
	1022.1-5007 Diaphragm Wall construction at Bridge F Deck			13	19-Aug-16 A	03-Sep-16	-4	Diaphragm Wall construction at Bridge F Deck
	1022.1-5008 Drainage Catchpit construction at Bridge F5			10	25-Aug-16	05-Sep-16	6	Drainage Catchpit construction at Bridge F5
	1022.1-5009 Launch LG-A to Pier 44-46			3	22-Aug-16	24-Aug-16	-6	Launch LG-A to Pier 44-46
	1022.1-5010 Dismantle LG1			22	25-Aug-16	20-Sep-16	-6	Dismantle LG1
	1022.1-5015 Bridge F5 - W/B Construct R.C. Deck			11	25-Aug-16	06-Sep-16	-6	Bridge F5 - W/B Construct R.C. Deck
	1022.1-5016 Construct Side/Wing Slab on hanging platform			11	07-Sep-16	20-Sep-16	-6	Construct Side/Wing Slab on I
	1022.1-5020 Bridge F5 - W/B Construct Parapet (landside) (24/6m, 2		set @ 3d)	7	21-Sep-16	28-Sep-16	-6	Bridge F5 - W/B
	1022.1-5021	Pier 43 & 44 MJ	,	5	29-Sep-16	05-Oct-16	-6	Pier 43
	1022.1-5025	Bridge F5 - W/B Road Surfacing & Marking		3	06-Oct-16	08-Oct-16	-6	Br
	All W/B Bridge			36	01-Jul-16 A	03-Oct-16	2	
	A2445	Delivery of L3 Railings		6	29-Aug-16*	03-Sep-16	1	Delivery of L3 Railings
	A2443 Delivery of L3 Railings (Bridge C4 - C5)			14	05-Sep-16	21-Sep-16	1	Instalation of L3 Railings (Bri
	A2460			23	05-Sep-16	03-Oct-16	2	
	A2470	Instalation of L3 Railings (Bridge C3 - C1)		14	12-Sep-16	28-Sep-16	2	Instalation of L3 F
	A2490	Installation of L3 Railings (Bridge C3 - C1)		23	01-Jul-16 A	15-Sep-16	6	Installation of Watermains and Fire H
	A2430			6	17-Sep-16	23-Sep-16	6	Testing of Watermains and Tie T
	A2500 Testing or watermains and Fire Hydrant at WB Bridge A2510 Lighting Installation (Bridge C4 - C5)			8	08-Sep-16	17-Sep-16	1	Lighting Installation (Bridge C4 - C
	n2010			Ů	00-0cp-10	17-0ep-10		
	•	Level of Effort Milestone			Con	tract HY	/200	9/19
	Actual Level of Effort Actual Work		Three Months Rolling Programme (20 Aug to 19 Nov 2016)					
	Remaining			_	J -	J	- 1.	S
Critical Remaining Work								

October			November					
09	16	23	30	06	13	20		
05 0	oonder - E							
		ames & Pane						
e C5 - D	eck Road	Waterproofing	g, Surfac	ong & Mark	ang			
1C - Bas	se Plate & I	√ain Post	1					
e Encl. B	ridge F1C	- Main Frame	\$					
ouble No	ise Encl. B	ridge F1C - S	econdai	y Farmes &	& Panels			
e F1C -	Bridge F10	C Deck Road	Waterpi	oofing, Sur	facing & N	larking		
54m) - E	Base Plate	& Main Post	1					
Noise En	icl. (54m) -	Main Frames	5					
truct Int.	Double No	ise End. (54n	n) - Sec	ondary Far	mes & Par	nels		
e F2C -	Deck Road	d Waterproofir	ng, Surf	acing & Ma	rking			
				-	-			
			- - - - -					
0 E2C	Construct	Int. Double No		l Bridgo E2	2C (82m)	Stogo 1		
e F3C -								
			C	Ourfe sin a f	0	e F3C - (
Bridge F	3C - Deck I	Road Waterp	rooting,	Surfacing 8	& Marking			
			1					
hanging	g platform							
S Constru	uct Parapet	t (landside) (2	4/6m, 2	set @ 3d)				
13 & 44 M	VJ							
Bridge F	5 - W/B Ro	ad Surfacing	& Marki	ng				
U		C C		0				
sridge C∠	4 - C5)							
-		ridge F1C - F	5)					
		-	•) 					
-	(Bridge C3		1					
	at WB Brid	-						
	Hydrant at	WB Bridge						
C5)			1 1 1					
		Page 5	of 7					

Act	tivity ID	Activity Name		Rem Dur	Start	Finish	Total Float	September	2016
	40500				10.0 10	00.0 10		21 28 04 11 18 25	02
	A2520	Lighting Installation (Bridge F1C - F5)		10	19-Sep-16	29-Sep-16	1		ting Installat
	A2530	Instalation of L3 Railings (Bridge C3 - C1)		10	14-Sep-16	26-Sep-16	4		n of L3 Raili
	A2540	Reinstatement of Temporary Opening		30	01-Jul-16 A	24-Sep-16	2	Reinstatem	
	A2550	Drainage Gully Installation		26	01-Jul-16 A	20-Sep-16	1	Drainage Gully In	stallation
	`	eck Demolition		29	08-Oct-16	12-Nov-16	7		
	10.4.1 - Existing			0	08-Oct-16	08-Oct-16	-6		
	10.4.1.2 - Dem			0	08-Oct-16	08-Oct-16	-6		
	10410-2580	Complete TTA for W/B Bridge Demolition & Re-Construct	tion	0		08-Oct-16	-6		◆ Co
	10.4.3 - Existing			29	11-Oct-16	12-Nov-16	7		
	10412-1280	Aspahlt Removal/Scraping of Aspahalt at E/B Bridge > P4	44-P35	12	11-Oct-16	24-Oct-16	1		(
	10412-1285	Demolish 4 Beams at Pier 40 to Pier 44 for wing Extension	on (4 span @ 1 beam) By Crane	12	11-Oct-16	24-Oct-16	-6		I
	10412-1290	Demolish 5 Beams at Pier Abut D12 to Pier 40 for wing E	xtension (5 span @ 1 beam) By Crane	12	25-Oct-16	07-Nov-16	12		
	10412-1300	Lift-up, Fix on Ex. WB Bridge & Launch LG2 to Pier 43-4	5	7	25-Oct-16	01-Nov-16	-6		
	10412-1320	Demolish Temp. E/B Bridge - Deck > Pier 43 to 44 (6 be	ams)	5	02-Nov-16	07-Nov-16	-6		
	10412-1340	Demolish Temp. E/B Bridge - Deck > Pier 42 to 43 (6 be	ams)	5	08-Nov-16	12-Nov-16	-6		
	10412-2060	Remove Asphalt, Demo Parapet & Prepare for Demolitic	n	9	11-Oct-16	20-Oct-16	-6		I
	10412-2070	Demolish Temp. E/B Bridge - Deck > Pier 27 to 28 (6 be	ams)	5	21-Oct-16	26-Oct-16	-6		
	10412-2080	Demolish Temp. E/B Bridge - Deck > Pier 26 to 27 (6 be	ams)	5	27-Oct-16	01-Nov-16	-6		
	10412-2100	Demolish Temp. E/B Bridge - Crosshead & Pier > 27		9	02-Nov-16	11-Nov-16	-6		
	10412-2120	Demolish Temp. E/B Bridge - Deck > Pier 25 to 26 (6 be	ams)	5	07-Nov-16	11-Nov-16	-6		
Ľ	10.6 - Tunnel A	pproach Ramp		78	08-Jul-16 A	22-Nov-16	57		
	10.6.1 - Approa	ch Ramp (Excluding Portion IIB)		78	08-Jul-16 A	22-Nov-16	57		
	Excavation &	ELS Works		78	08-Jul-16 A	22-Nov-16	57		
	1061-4900.8	Predrilling Works (WF4>B1:46m@1.22m/d)		46	08-Jul-16 A	15-Oct-16	2		
	1061-4900.9	Sheet Piling Works (WF1>B2:25m@1.5m/d)		0	19-Jul-16 A	08-Aug-16 A		rks (WF1>B2:25m@1.5m/d)	
	1061-4901.1	Sheet Piling Works (WF2>B1:46m@1.5m/d)		20	29-Sep-16	24-Oct-16	2		
	1061-4901.2	Sheet Piling Works (WF1>B3:19m@1.5m/d)		24	12-Jul-16 A	17-Sep-16	31	Sheet Piling Works (W	F1>B3:19m
	1061-4910	Advance Sheet Piling Works + Pre-drilling in Phase 2 - C	ul de sac Area (30m)	14	19-Sep-16	05-Oct-16	97		Advan
	1061-4940	Instrumentation > Indinometer (2Nos)		14	24-Aug-16	08-Sep-16	4	Instrumentation > Inclinometer (2No	s)
	1061-4960	Instrumentation > Settlement Marker (14Nos)		3	09-Sep-16	12-Sep-16	27	Instrumentation > Settlement	/ Marker (14N
	1061-4980	Instrumentation > Tiltmeter (14Nos)		3	09-Sep-16	12-Sep-16	27	Instrumentation > Tiltmeter (14	
	1061-5000	Instrumentation > Movement Marker (14Nos)		3	09-Sep-16	12-Sep-16	27	Instrumentation > Movement	
	1061-5020	Instrumentation > Pizometer/Standpipe (4Nos)		14	09-Sep-16	26-Sep-16	27		ntation > Piz
	1061-5040	Dewatering System > Recharge Well (8Nos)		10	23-Sep-16	05-Oct-16	4		Dewate
	1061-5060	Dewatering System > Dewatering Well (14Nos)		14	29-Sep-16	17-Oct-16	4		
	1061-5080	Dewatering System > Observation Well (10Nos)		11	08-Oct-16	21-Oct-16	4		
	1061-5100			9	25-Oct-16	03-Nov-16	2		
		Pumping Test			25-00-16				
	1061-5120	Complete Pump Test		0	45 Aug 40 A	03-Nov-16	2		201 -
	1061-5140	Ch 5285 - 5331 > Excav from Ex. Lvl down to 2.5mPD (Jn ∋285 - 5331 W/ Open Cut)	30	15-Aug-16 A	24-Sep-16	10	Ch 5285 - 5	אנא א Exca
	-	Level of Effort Milestone			Con	tract HY	/200	9/19	
	Actual Leve Actual Wor		Three Mont	hs F				20 Aug to 19 Nov 2016)	
	Remaining				a.,	3			
	•	naining Work							
<u> </u>									•



ctivity ID	Activity Name	Rem	Start	Finish	Total									2016
		Dur			Float	21	2	28	04	Septe	ember 18	25		2 0
1061-5160	Ch 5234 - 5285 > Excav from Ex. LvI down to 2.5mPD	15	26-Sep-16	14-Oct-16	10	<u> </u>							- <u></u>	
1061-5180	Ch 5234 - 5285 > Install 1st Layer of Strut & Waling	9	15-Oct-16	25-Oct-16	10									
1061-5200	Ch 5234 - 5285 > Excav from 2.5mPD to 1m Below 2nd Layer of Struts	16	04-Nov-16	22-Nov-16	2									
10.7 - Section) X - Miscellaneous Works	72	19-Jul-16 A	15-Nov-16	567									
10.7.1 - TTM S	Stages	41	19-Jul-16 A	08-Oct-16	-6									
1071-1300	TTM Stage 6 - TMLG Consultation and Endorsement	48	19-Jul-16 A	06-Oct-16	-6									ттм s
1071-1320	TTM Stage 6 - TTM Enabling Works	1	08-Oct-16	08-Oct-16	-6									
1071-1340	TTM Stage 6 - Divert W/B 3 lanes traffic from old E/B to new W/B Bridge	0		08-Oct-16	-6									
10.7.2 - Oil St	reet/Watson Road (Portion III)	50	15-Sep-16	15-Nov-16	567									
1072-1040	Fresh Water Main 100DI - F03 Portion III (Oil Street/Admin Bldg)	50	15-Sep-16	15-Nov-16	567									
1072-1060	Salt Water Main 100DI - S03 Portion III (Oil Street/Admin Bldg)	50	15-Sep-16	15-Nov-16	567									
1072-1080	Foul Sewer Dia. 300 Portion III (Oil Street/Admin Bldg)	42	15-Sep-16	05-Nov-16	567								1	
11 - SECTIC	ON 11 OF THE WORKS	61	16-Aug-16 A	02-Nov-16	21									
11.1 - Portion		61	16-Aug-16 A	02-Nov-16	21									
11.1.2 - Along	Victoria Park Rd. Triangular Island - Modification Works (Portion XIIA)	26	16-Aug-16 A	20-Sep-16	1									
1110-2870	Step-joint to be made at the existing bituminous paving	6	16-Aug-16 A	26-Aug-16	1		Step-	-joint to	be mad	e at the	existing bitu	minous pa	iving	
1110-2890	Placing road base and base course bituminous paving	5	27-Aug-16	01-Sep-16	1			; Pla	acing roa	id base a	and base co	urse bitum	ninous pa	ving
1110-2900	Bituminous paving to be demolished and removed for subsequent installation of manhole covers	5	02-Sep-16	07-Sep-16	1				Bi	ituminou	s paving to	be demolis	shed and	removed f
1110-2910	Placing stone mastic asphalt bituminous paving	5	08-Sep-16	13-Sep-16	1					P	Placing ston	e mastic as	sphalt bitu	uminous pa
1110-2920	Placing road marking	5	14-Sep-16	20-Sep-16	1						P	lacing road	d marking]
11.1.3 - Along	Tsing Fung St TCSS cable ducting (Portion XIIA)	36	17-Sep-16	31-Oct-16	1									
1110-2930	TCSS cable ducting along Tsing Fung St	36	17-Sep-16	31-Oct-16	1									
A2560	Expiration of existing Excavation Permit	0		13-Oct-16*	0									
A2570	Extension of existing Excavation Permit (by AECOM)	18	24-Sep-16	11-Oct-16	1								1	
11.1.4 - Along	Gordon House - Cross road ducting at Hing Fat St adjacent to (Portion XIIA)	16	17-Sep-16	06-Oct-16	5									
1110-2940	Trench 1 (E&M, PL) - (Night Work)	16	17-Sep-16	06-Oct-16	5									Trench
11.1.5 - Footir	ng and frame/pole for directional sign FVMSH2, ADS16 and OHVD (Portion XIIA)	38	17-Sep-16	02-Nov-16	3									
1110-2960	ADS16	26	17-Sep-16	19-Oct-16	3								1	
1110-2970	OHVD	12	20-Oct-16	02-Nov-16	3									
11.1.6 - Along	Hing Fat St TCSS cable ducting (Pending V.O.) (Portion XIIA)	56	20-Aug-16	27-Oct-16	26									
1110-2990	Ducting at pedestrian walkway	38	20-Aug-16	05-Oct-16	26									Ducting
1110-3000	Cross road ducting at Hing Fat St adjacent to Viking Garden	28	20-Aug-16	22-Sep-16	26							Cross roa	ad ductin	ng at Hing F
1110-3010	Cross road ducting at Hing Fat St adjacent to The CWB Kaifong Welfare Advancement Bradbuary	28	23-Sep-16	27-Oct-16	26								1	
	Building							1					1	

Actual Work Remaining Work

Critical Remaining Work

Contract HY/2009/19 Three Months Rolling Programme (20 Aug to 19 Nov 2016)

Oct	tober				Noven	nber	
09	16	2	3	30	06		0
	Ch 5234 -	5285	> Excav	from Ex	. Lvl down t	o 2.5mPD	
			Ch 523	4 - 5285	> Install 1st	Layer of Stru	ıt & ∖
							l Cł
				; ;			
TM Stage	6 - TMLG (Conc	ultation	nd Endo	rcomont		
				1	1 Sement		
TTM Sta	ge 6 - TTN	1 Ena	bling Wo	rks			
TTM Sta	ge 6 - Dive	ert W/	'B 3 lane	s traffic fi	om old E/B	to new W/B I	Bridg
				:		Fresh W	ater
						Salt Wat	er M
					Foul Sowa	r Dia. 300 Po	rtion
					I Oul Sewe	1 Dia. 500 1 0	1011
				1			
vod for cu	bsequent ir	octolle	ntion of n		20VOTO		
veu ioi su	usequent i	151.0110			DVEIS		
us paving							
				; ;			
				TCSS	cable ductin	ig along Tsing	Fur
♦ E>	piration of	existi	ng Exca	vation Pe	ermit		
						NN 4)	
		Isting			nit (by AECC		
ench 1 (E	&M, PL) - (Nigh	t Work)				
				1			
	AD	S16					
				он	VD		
				1 1 1			
cting at peo	destrian wa	alkwa	у	1			
ling Fat St	adjacent to	o Vikiı	ng Garde	- 			
				¦ s road d	ucting at Hi	ng Fat St adja	rent
					aoting at 11	ng i ut ot daje	
			Page 7	of 7			
			1 uze /	UI /			

71				000-1	MU71 Programme Lag													
vity ID	Activity Name	Physical % Complete	Original Duration	Start	Finish	Total Float		Jan	Feb Mar	Apr	May J	2016 Jun		ug Se	ep (Od N	ov Dec	2017 Jan Fe
HY/2009/15	- Works Programme Update 20 August 2016													Ť				
	ection Completion														a track			
KD_5745	KD10 - Completion of Section 5, (1863d)	100%	Od		25-Mar-16 A	4.5.6			٠	KD10 - 0	Completion of	of Sectio	n 5, (1863	30)				1.00
KD_5750	KD11 - Completion of Section 6, (1949d)	0%	Od		30-Sep-16*	-2450	d			1					۰ F	(D11 - Co	mpletion of	Section 6, (19-
KD_5740	KD9 - Completion of Section 4, (1739d)	0%	Od		30-Sep-16*	-4550	d			214				1.1	• F	KD9 - Cor	npletion of \$	Section 4, (173
TPCWAW			1									-						
TPCWAW ELS	Works - East Section									1								
S5_61070	Demolition of bulkhead wall TPCWAE/TPCWAW	100%	34d	06-Dec-15 A	09-Jan-16 A			Dem	olition of bulkhe	ead wall TF	CWAE/TPO	CWAW						
S6_6180	East excavation to formation	100%	85d	18-Sep-15 A	24-Dec-15 A			East exca	vation to forma	ation		Ì						
TPCWAW-CC	T RC Structure, Base Slab	1				-				1								
S5_60600	Waterproofing + Base slab Bay 1 (incl. removal of 7th layer struts after	100%	15d	03-Dec-15 A	23-Dec-15 A		-	Waterpro	ofing + Base sl	ab Bay 1 (i	nd. remova	al of 7th	layer strut	s after cas	sting of	base slab)	
S5_60620	casting of base slab) Waterproofing + Base slab Bay 5	100%	11d	05-Dec-15 A	29-Dec-15 A		1220	Waterpr	oofing + Base	slab Bay 5		and a			100160			
S5_60625	Waterproofing + Base slab Bay 6	100%	11d	16-Dec-15 A	19-Jan-16 A			w res	aterproofing +	Base slab	Bay 6							
S5_60630	Waterproofing + Base slab Bay 7	100%	7d	07-Jan-16 A	05-Feb-16 A			-	Waterproofi	ing + Base	slab Bay 7	-						
S5_60635	Waterproofing + Base slab Bay 8	100%	6d	12-Jan-16 A	05-Feb-16 A				Waterproofi	ing + Base	slab Bay 8			-				
S5_61065	Waterproofing + Base slab Bay 9 (stitching with TPCWAE)	100%	6d	15-Jan-16 A	05-Feb-16 A				Waterproof	ing + Base	slab Bay 9	(stitching	g with TPC	CV/AE)				
TPCWAW-CC	TRC Structure, Wall	1											_					
S5_60670	Wall Bay 1 (+ repropping and removal of 5th & 6th struts)	100%	21d	15-Dec-15 A	10-Jan-16 A	1		Wall	Bay 1 (+ repro	opping and	removal of	5th & 61	h struts)		1.1			
S5_60675	Wall Bay 2 (+ repropping and removal of 5th & 6th struts)	100%	10d	10-Dec-15 A	05-Jan-16 A			Wall E	3ay 2 (+ reprop	ping and r	emoval of 5	ith & 6th	struts)					
S5_60680	Wall Bay 3 (+ repropping and removal of 5th & 6th struts)	100%	21d	10-Dec-15 A	07-Jan-16 A		-	Wali	Bay 3 (+ reprop	pping and	removal of s	5th & 6th	n struts)					
S5_60685	Wall Bay 4 (+ repropping and removal of 5th & 6th struts)	100%	22d	20-Dec-15 A	11-Jan-16 A	0		Wal	Bay 4 (+ repre	opping and	removal of	f 5th & 6	th struts)					
S5_60690	Wall Bay 5 (+ removal of 5th strut)	100%	10d	02-Jan-16 A	29-Jan-16 A				Wall Bay 5 (+	removal c	f 5th strut)							
S5_60695	Wall Bay 6 (+ removal of 5th strut)	100%	7d	21-Jan-16 A	25-Feb-16 A				Wall E	Bay 6 (+ re	moval of 5th	n strut)			1			
S5_60700	Wall Bay 7 (+ removal of 5th strut)	100%	8d	16-Feb-16 A	25-Feb-16 A				🔲 Wali E	Bay 7 (+ re	moval of 5th	n strut)			den o			
S5_60705	Wall Bay 8 (+ removal of 5th strut)	100%	9d	16-Feb-16 A	25-Feb-16 A	× 1			Wall E	Bay 8 (+ re	moval of 5th	n strut)						
S5_61075	Wall Bay 9 (+ removal of 5th strut)	100%	8d	16-Feb-16 A	25-Feb-16 A				🔲 Wall E	Bay 9 (+ re	moval of 5th	n strut)						
	intenance Walkway	1	-		1		-			-		÷	_	-				
							L			15		4		-				
Remainin	1 of 3					1.1	-	Prepare	d by Anthony F	esalbon		-	-					
Actual We	IS WOR	tion Frain	orine (U-	a Kona) I td		Date	10.4		vision		Checked		roved					
 Remainin 	Cinita State Construct	tion Engine	ering (Hor	ig Kong) Ltd.		20-Aug-16	-	s Update	M Ath Columnia		VC	WSL						
	emaining Work Contract No. HY/2009/15 - Central Wan Cl	nai By Pass	- Tunnel (Causeway Bay T	yphoon Shelter	-	(based)	JII VVP KEV.	N-4th Submiss	siO(1)		-						
♦ Milestone		Section)			We can a construct the	-	1	-				1						
Summary	M.			Sec. 1														
Actual We	WORKSP	ROGRAM	ME UPD	AIE														

ID	Activity Name		Physical % Complete	Original Duration	Start	Finish	Tota Floa	t Dec	Jan Feb Mar Apr		2016 Jul A	Aug Sep Oct No	v Dec	2017 Jan Feb
S6_9085	TPCWAW - Maint	enance walkway / profile barrier	100%	23d	20-Dec-15 A	23-Mar-16 A				VAW - Maintenand				
PCWAW-CCT	TRC Structure, OHV	D									-			
S5_60740	OHVD Bay 1		100%	12d	29-Dec-15 A	21-Jan-16 A		-	OHVD Bay 1					
S5_61100	OHVD Bay 10		100%	7d	16-Feb-16 A	26-Feb-16 A			OHVD Bay 10	0		1		
S5_60745	OHVD Bay 2		100%	12d	31-Dec-15 A	18-Jan-16 A			OHVD Bay 2					
S5_60750	OHVD Bay 3		100%	12d	02-Jan-16 A	18-Jan-16 A		_	OHVD Bay 3					
60755	OHVD Bay 4		100%	12d	24-Dec-15 A	25-Jan-16 A			OHVD Bay 4					
\$5_60760	OHVD Bay 5		100%	12d	06-Jan-16 A	25-Jan-16 A			OHVD Bay 5					
5_61080	OHVD Bay 6		100%	9d	20-Jan-16 A	16-Feb-16 A			OHVD Bay 6					
5_61085	OHVD Bay 7		100%	9d	12-Feb-16 A	28-Feb-16 A		in Court	OHVD Bay 7		1			
\$5_61090	OHVD Bay 8		100%	9d	16-Feb-16 A	28-Feb-16 A	an ((and))) ((((((((((((((((OHVD Bay 8	3	1			
5_61095	OHVD Bay 9		100%	9d	12-Feb-16 A	28-Feb-16 A			OHVD Bay S	9				
\$5_61110	Shaft B Reinstater	ment - OHVD	100%	20d	20-Feb-16 A	22-Apr-16 A	-	-		Shaft B Reinsta	tement - OHV	/D		
PCWAW-CCT	T RC Structure, Top	Slab + Waterproofing							1					
36_9135	Completion of Sec	tion 5 - TPCWAW Area (KD10), below -20mPD	100%	Od	all'illionni ficiliana (criti)	09-Mar-16 A			♦ Completio	n of Section 5 - Th	PCWAW Area	(KD10), below -20mPD		
65_61120	Provide access to	CWB (CC) Contractor - TPCWAW Area	100%	Od		29-Feb-16 A			Provide acce	ess to CWB (CC)	Contractor - T	PCWAW Area		
6_9055	Provide Access to	WDII Contractor for bulkhead wall removal	100%	Od		29-Feb-16 A			Provide Acce	ess to WDII Contra	actor for bulkh	ead wall removal		
61105	Shaft B Reinstater	ment - Top Slab	100%	15d	14-Feb-16 A	29-Feb-16 A		-	Shaft B Rein	nstatement - Top S	lab			
55_60810	Top slab Bay 1		100%	11d	19-Jan-16 A	23-Feb-16 A		-	Top slab Bay	1				
S5_60875	Top slab Bay 10		100%	5d	20-Feb-16 A	09-Mar-16 A		-	Top slab E	Bay 10				
S5_60815	Top slab Bay 2		100%	10d	08-Jan-16 A	02-Feb-16 A		tion i.	Top slab Bay 2		1			
S5_60820	Top slab Bay 3		100%	10d	11-Jan-16 A	16-Feb-16 A			Top slab Bay 3		Р Э			
S5_60825	Top slab Bay 4		100%	11d	19-Jan-16 A	24-Feb-16 A			Top slab Bay	4				
S5_60830	Top slab Bay 5		100%	10d	19-Feb-16A	29-Feb-16 A		-	Top slab Bay	y 5				
S5_60835	Top slab Bay 6		100%	12d	20-Feb-16A	02-Mar-16 A		-	Top slab Ba	ay 6		in the second se		
	Top slab Bay 7		100%	7d	20-Feb-16A	05-Mar-16 A		-	Top slab B	ay 7				
S5_60845	Top slab Bay 8		100%	16d	20-Feb-16A	05-Mar-16 A	eite		Top slab B	ay 8				
	Top slab Bay 9		100%	15d	20-Feb-16A	07-Mar-16 A		-	Top slab B	Bay 9		4		
CO. TO POST		er / Waterproofing on Top Slab						-			1			
									Ť.	-	1			
Remaining	g Work	2 of 3					Dette	-	Prepared by Anthony Fesalbo		Approved			
Actual Wo		China State Constr	uction Engine	erina (Ho	ng Kong) Ltd.		Date 20-Aug-16	Progress	Revision s Update		VSL			
Remaining	g Work	and the second se		and the second of			Lo-nug- IU		on WP Rev. N-4th Submission)			中國連察工	程(平洪)	有限公司
Critical Re	emaining Work	Contract No. HY/2009/15 - Central Wan		- Tunnel	Causeway Bay T	Typhoon Shelter				1		中國建築工 CHINA STAIL CONSTRUCT	ON ENGINEERING	HONG KONG LTD.
Milestone			Section)									and the second sec		
Summary		IN COM	DDOODAT		ATE									
Actual Wo	ork	WORKS	PROGRAM	IVIE UPL	AIE									

	A P. Makhana	Physical %	Original	Start	Finish	Total								4	016							-	017
ivity ID	Activity Name	Complete	Duration			Float	Dec	Jan	Feb	Mai		100 C	May	Jun	Jul	A	ug S	ep C	d	Nov	Dec	Jan	Feb
S5_61115	TPCWAW waterproofing - Bay 10	100%	2d	09-Mar-16 A	10-Mar-16A	1				1 1	PCWAV	N wat	terproc	ofing -	Bay 10								
S6_9076	TPCWAW King post load transfer + waterproofing (except Bay 10)	100%	26d	04-Mar-16 A	29-Mar-16 A	-					TPO	CWAV	V King	post lo	ad trans	fer + v	aterproc	ofing (exc	cept B	ay 10)			
TPCWAW Ren	moval of Temporary Reclamation																						
S6_9140	Backfilling/Removal of ELS + Re charge water	100%	25d	30-Mar-16 A	04-Jul-16 A						1				Ba	kfilling	/Remova	1		charge w			
S6_7550	Completion of Section 6- (KD11), above - 20mPD	0%	Od	Contrast Conc. (C. 1971)	30-Sep-16*	-245d					4									tion of Se			
S6_9105	Remove general fill/ seawall block (concurrent activities)	0%	25d	28-May-16 A	30-Sep-16	Od							I		1	-		R	emov	e general	fill/ sea	wall blo	ck (cor
S6_9120	Saw cut diaphragm wall	44%	75d	20-Jul-16 A	30-Sep-16*	-244d									1			s s	aw cu	t diaphrag	gm wall		
Works in Port	tion 11 under KD9 (incl. Reinstatement of Vertical Seawall)														1								
S6_9148	Completion of KD9- Works in Portion 11	0%	0d		30-Sep-16	-455d														etion of KI			
S6_9147	Reinstate ground level at Portion 11	10%	40d	26-Jul-16 A	30-Sep-16	-385d										(m-		F	leinsta	ate ground	d level a	at Portic	in 11
S6_9144	Reinstate vertical seawall (by marine plant)	0%	21d	23-Jul-16 A	30-Sep-16	-384d	*								4		-		Reinsta	ate vertica	al seawa	all (by m	larine p

the second second second	2.42		Prepared by Anthony Fesalbo	n		
Remaining Work	3 of 3	Date	Revision	Checked	Approved	
Actual Work	China State Construction Engineering (Hong Kong) Ltd.	20-Aug-16	Progress Update	WC	WSL	
Remaining Work		1.1.1.1.1.1.1.1	(based on WP Rev. N-4th Submission)			中國運黎工程(菁港)有限公司
Critical Remaining Work	Contract No. HY/2009/15 - Central Wan Chai By Pass - Tunnel (Causeway Bay Typhoon Shelter	11.00				CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LTD.
♦ Milestone	Section)		1		-	
Summary	WORKS PROGRAMME UPDATE	-		-	1	
 Actual Work 	WORKS PROGRAMME OF BATE					

CEDD CONTRACT HK/2009/02

	Activity Name		On	Rem	Scheduled/	Scheduled/	Total	Calendar		2016
		and the second	Dur	Dur	Actual Start	Actual Finish	Float		19 26 03 10	August 17 24 31 07 14 21 28
hree Months Rol	Iling Programme 2016	-07-20 (dd 20-Jul-16)								
Programme Mileste	tones (Revised up to EO	TO No.16 issued on 01-Dec-15)								
Contractual Complet	etion Dates									
KDC0170 S	Section 9B Works (2107 days) - C	WB Structure (CH3400 Eastward) (5-Nov-15 Noon)	0	0		20-Jul-16*	-257	Calendar Day		Section 9B Works (2107 days) - CWB Structure (CH3400 Eastward
		WB Structure (CH3400 Westward) (3-Feb-16 Noon)	0	0		20-Jul-16*	-167	Calendar Day		Section 10 Works (2197 days) - CWB Structure (CH3400 Westware)
KDC0190 S	Section 11 Works (2407 days) - Re	emainder of Works/ Works Completion Date (31-Aug-16 Noon)	0	0		31-Aug-16*	0	Calendar Day		♦ Sei
Soft Landscaping & E	Establishment Key Dates			-	and the second					4
KDC0150 S	Section 8D Works (2139 days) - E	stablishment Works in Area 8 (06-Dec-15 Noon)	0	0		20-Jul-16*	-226	Calendar Day		Section 8D Works (2139 days) - Establishment Works in Area 8 (06)
KDC0200 S	Section 11A Works (2437 days) - F	Remaining Landscape Softworks (30-Sep-16 Noon)	0	0		30-Sep-16*	0	Calendar Day		
KDC0220 S	Section 12 Works (2407 days) - Pr	rotection and Preservation of Existing Trees (31-Aug-16 Noon)	0	0		31-Aug-16*	0	Calendar Day		♦ Se
Forecast Completion	n Dates									
Soft Landscaping & E	Establishment Key Dates		-							
KDF0150 S	Section 8D Works (1838 days) - E	stablishment Works in Area 8	0	0	1	27-Aug-16*	-264	Calendar Day		Section 8
Possession of Site										
PS0070a P	Possession of Portion 7 - Remaining	ng Part of Area 9 (14-Sep-15)	0	0	20-Jul-16*		-310	Calendar Day		Possession of Portion 7 - Remaining Part of Area 9 (14-Sep-15)
Preliminaries		When the design of the second s							and the second	
Critical Submission	& Approval									
		stem (PS30.5) - Design Approval by AECOM	30	22	29-Jan-15 A	10-Aug-16*	-713	Calendar Day		Temp Covered Walkway Cover Sy
and the second se	which a state of the		50	22	25-541-15 A	10-Aug-10	-/13	Calendar Day		Temp Covered Walkway Cover Sy
Contraction of the second second		of Wan Chai Ferry Pier in Area 8								
Outstanding Works				1						
Contract whereas a second second second		manent EVA to Ferry Pier and P7-P9 Pump Stations	90	12	29-Feb-16 A	31-Jul-16	-134	Calendar Day		Clarify the alignment/details of permanent EVA to
		elocating utilities from the steel decking	14	14	01-Aug-16	14-Aug-16	-134	Calendar Day		Liaison with utility companies
Same Sectors and	Divert temporary EVA to backfilled		10	10	15-Aug-16	24-Aug-16	-123	HK Working Day		Divert tempor
	Dismantle existing temporary EVA		15	15	24-Aug-16	09-Sep-16	-123	HK Working Day		
	Demolish the bulkhead wall underr		25	25	09-Sep-16	07-Oct-16	-123	HK Working Day		and and and and and a set of the
Section 9B of the V	Works - CWB Tunnel St	ructure (CH3400 - CH3796)								
Tunnel Portion 1 (CH	H3500-CH3630)									
CWB Structural Work	ks									
Outstanding Works	and the second second									
	TB1 - Installation of precast concre	ete covers for troughs	15	0	20-Jun-16 A	15-Jul-16 A	1	Calendar Day	TB1	 Installation of precast concrete covers for troughs
Tunnel Portion 2 (CH										
CWB Structural Work	ks									
Outstanding Works						and the second second		and the second of		
	TB2 - Installation of precast concre	•	15	0	20-Jun-16 A	15-Jul-16 A		Calendar Day	TB2	Installation of precast concrete covers for troughs
	Tunnel Portion 4 (CH3630-C	CH3790)								
CWB Structural Work	10									and the second
					Section Section	in the second	(1 - P
	Carry out drilling works and saw cu	ut on the bulkhead wall at eastern tunnel end	71	0	15-Mar-16 A	17-Jul-16 A		Calendar Day		arry out drilling works and saw cut on the bulkhead wall at eastern tunn
S9B-T34-3105 F	Carry out drilling works and saw cu Remove formwork and falsework fi	rom Bay 16 prior to constructing top slab of Bay 16	15	3	07-Jun-16 A	17-Jul-16 A 22-Jul-16	-482	Calendar Day HK Working Day		arry out drilling works and saw cut on the bulkhead wall at eastern tunn Remove formwork and falsework from Bay 16 prior to construct
S9B-T34-3105 F S9B-T34-3200 F	Carry out drilling works and saw cu Remove formwork and falsework f Remaining works at HY/2009/15 In	rom Bay 16 prior to constructing top slab of Bay 16 Iterface for Section 9B Completion - Structural Stitching Works	15 20		-1		-482 -246			
S9B-T34-3105 F S9B-T34-3200 F S9B-T34-5600 K	Carry out drilling works and saw cu Remove formwork and falsework f Remaining works at HY/2009/15 In King Post Load Transfer in Bay 1 t	rom Bay 16 prior to constructing top slab of Bay 16 iterface for Section 9B Completion - Structural Stitching Works o Bay 4	15 20 9	3	07-Jun-16 A 18-Jul-16 A 27-Jul-16	22-Jul-16		HK Working Day		Remove formwork and falsework from Bay 16 prior to construct
S9B-T34-3105 F S9B-T34-3200 F S9B-T34-5600 K S9B-T34-5700 K	Carry out drilling works and saw cu Remove formwork and falsework f Remaining works at HY/2009/15 In King Post Load Transfer in Bay 1 t King Post Load Transfer in Bay 5 t	rom Bay 16 prior to constructing top slab of Bay 16 iterface for Section 9B Completion - Structural Stitching Works o Bay 4 o Bay 8	15 20	3 18	07-Jun-16 A 18-Jul-16 A	22-Jul-16 06-Aug-16	-246	HK Working Day HK Working Day		Remove formwork and falsework from Bay 16 prior to construct
S9B-T34-3105 F S9B-T34-3200 F S9B-T34-5600 K S9B-T34-5700 K S9B-T34-5800 K	Carry out drilling works and saw ou Remove formwork and falsework f Remaining works at HY/2009/15 In King Post Load Transfer in Bay 1 t King Post Load Transfer in Bay 5 t King Post Load Transfer in Bay 9 t	rom Bay 16 prior to constructing top slab of Bay 16 iterface for Section 9B Completion - Structural Stitching Works o Bay 4 o Bay 8 o Bay 13	15 20 9	3 18 9	07-Jun-16 A 18-Jul-16 A 27-Jul-16	22-Jul-16 06-Aug-16 04-Aug-16	-246	HK Working Day HK Working Day Calendar Day		Remove formwork and falsework from Bay 16 prior to construct Remaining works at HY/2009/15 Interface King Post Load Transfer in Bay 1 to Bay 4, to post Load Transfer in Bay 5 to Bay 8
S9B-T34-3105 F S9B-T34-3200 F S9B-T34-5600 K S9B-T34-5700 K S9B-T34-5800 K S9B-T34-5900 K	Carry out drilling works and saw ou Remove formwork and falsework f Remaining works at HY/2009/15 In King Post Load Transfer in Bay 1 t King Post Load Transfer in Bay 5 t King Post Load Transfer in Bay 9 t King Post Load Transfer in Bay 14	rom Bay 16 prior to constructing top slab of Bay 16 iterface for Section 9B Completion - Structural Stitching Works o Bay 4 o Bay 8 o Bay 13 to Bay 17	15 20 9 9 9 9 9	3 18 9	07-Jun-16 A 18-Jul-16 A 27-Jul-16 07-Jul-16 A	22-Jul-16 06-Aug-16 04-Aug-16 14-Jul-16 A	-246 -535	HK Working Day HK Working Day Calendar Day Calendar Day		Remove formwork and falsework from Bay 16 prior to construct Remaining works at HY/2009/15 Interface King Post Load Transfer in Bay 1 to Bay 4, to post Load Transfer in Bay 5 to Bay 8
S9B-T34-3105 F S9B-T34-3200 F S9B-T34-5600 K S9B-T34-5700 K S9B-T34-5800 K S9B-T34-5900 K S9B-T34-6000 F	Carry out drilling works and saw ou Remove formwork and falsework f Remaining works at HY/2009/15 In King Post Load Transfer in Bay 1 t King Post Load Transfer in Bay 5 t King Post Load Transfer in Bay 9 t King Post Load Transfer in Bay 14 Roof Waterproofing - Bay 1 to Bay	rom Bay 16 prior to constructing top slab of Bay 16 iterface for Section 9B Completion - Structural Stitching Works o Bay 4 o Bay 8 o Bay 13 to Bay 17 4	15 20 9 9 9 9 9 9 7	3 18 9 0 4	07-Jun-16 A 18-Jul-16 A 27-Jul-16 07-Jul-16 A 15-Jul-16 A 30-Aug-16 07-Jul-16 A	22-Jul-16 06-Aug-16 04-Aug-16 14-Jul-16 A 23-Jul-16	-246 -535 -532	HK Working Day HK Working Day Calendar Day Calendar Day Calendar Day		Remove formwork and falsework from Bay 16 prior to construct Remaining works at HY/2009/15 Interface King Post Load Transfer in Bay 1 to Bay 4, t Post Load Transfer in Bay 5 to Bay 8 King Post Load Transfer in Bay 9 to Bay 13, King Post Load Transfer
S9B-T34-3105 F S9B-T34-3200 F S9B-T34-5600 K S9B-T34-5700 K S9B-T34-5800 K S9B-T34-5900 K S9B-T34-6000 F S9B-T34-6100 F	Carry out drilling works and saw ou Remove formwork and falsework f Remaining works at HY/2009/15 In King Post Load Transfer in Bay 1 t King Post Load Transfer in Bay 5 t King Post Load Transfer in Bay 9 t King Post Load Transfer in Bay 14 Roof Waterproofing - Bay 1 to Bay Roof Waterproofing - Bay 5 to Bay	rom Bay 16 prior to constructing top slab of Bay 16 iterface for Section 9B Completion - Structural Stitching Works o Bay 4 o Bay 8 o Bay 13 to Bay 17 4 8	15 20 9 9 9 9 9 9 7 7 7	3 18 9 0 4 9	07-Jun-16 A 18-Jul-16 A 27-Jul-16 A 07-Jul-16 A 15-Jul-16 A 30-Aug-16	22-Jul-16 06-Aug-16 04-Aug-16 14-Jul-16 A 23-Jul-16 07-Sep-16	-246 -535 -532 -534	HK Working Day HK Working Day Calendar Day Calendar Day Calendar Day Calendar Day		Remove formwork and falsework from Bay 16 prior to construct Remaining works at HY/2009/15 Interface King Post Load Transfer in Bay 1 to Bay 4, K
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S9B-T34-3105 F S9B-T34-3200 F S9B-T34-5600 K S9B-T34-5700 K S9B-T34-5800 K S9B-T34-5900 K S9B-T34-6000 F S9B-T34-6100 F S9B-T34-6100 F S9B-T34-6200 F S9B-T34-6300 F S9B-T34-6300 F S9B-T34-6300 F S9B-T34-6300 F	Carry out drilling works and saw or Remove formwork and falsework f Remaining works at HY/2009/15 In King Post Load Transfer in Bay 1 t King Post Load Transfer in Bay 5 t King Post Load Transfer in Bay 9 t King Post Load Transfer in Bay 14 Roof Waterproofing - Bay 1 to Bay Roof Waterproofing - Bay 5 to Bay Roof Waterproofing - Bay 9 to Bay Roof Waterproofing - Bay 1 to Ba ELS (S2-S4) Removal - Bay 1 to Ba	rom Bay 16 prior to constructing top slab of Bay 16 tterface for Section 9B Completion - Structural Stitching Works o Bay 4 o Bay 8 o Bay 13 to Bay 17 4 8 13 y 17 Bay 4	15 20 9 9 9 9 9 7 7 7 7	3 18 9 0 4 9 7 0 0 0	07-Jun-16 A 18-Jul-16 A 27-Jul-16 A 15-Jul-16 A 30-Aug-16 07-Jul-16 A 15-Jun-16 A 24-Jun-16 A	22-Jul-16 06-Aug-16 04-Aug-16 14-Jul-16 A 23-Jul-16 07-Sep-16 26-Jul-16 23-Jun-16 A 06-Jul-16 A	-246 -535 -532 -534 -535	HK Working Day HK Working Day Calendar Day Calendar Day Calendar Day Calendar Day Calendar Day Calendar Day Calendar Day	Roof Waterproofing - Bay 5 to Bay 8	Remove formwork and falsework from Bay 16 prior to construct Remaining works at HY/2009/15 Interface King Post Load Transfer in Bay 1 to Bay 4, k Post Load Transfer in Bay 5 to Bay 8 King Post Load Transfer in Bay 9 to Bay 13, King Post Load Tr Roof Waterproofing - Bay 1 to Bay 4, Roof Waterproofing
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S9B-T34-3105 F S9B-T34-3200 F S9B-T34-5600 K S9B-T34-5700 K S9B-T34-5800 K S9B-T34-5900 K S9B-T34-5900 K S9B-T34-6000 F S9B-T34-6100 F S9B-T34-6200 F S9B-T34-6300 F S9B-T34-6100 F S9B-T34-6100 F S9B-T34-6100 F S9B-T34-6100 F S9B-T34-7000 E S9B-T34-7100 E S9B-T34-7100 E	Carry out drilling works and saw or Remove formwork and falsework f Remaining works at HY/2009/15 In King Post Load Transfer in Bay 1 t King Post Load Transfer in Bay 5 t King Post Load Transfer in Bay 9 t King Post Load Transfer in Bay 14 Roof Waterproofing - Bay 1 to Bay Roof Waterproofing - Bay 5 to Bay Roof Waterproofing - Bay 9 to Bay Roof Waterproofing - Bay 1 to Ba ELS (S2-S4) Removal - Bay 1 to Ba	rom Bay 16 prior to constructing top slab of Bay 16 tterface for Section 9B Completion - Structural Stitching Works o Bay 4 o Bay 8 o Bay 13 to Bay 17 4 8 13 y 17 Bay 4 Bay 8	15 20 9 9 9 9 9 9 7 7 7 7 7 7 7 45	3 18 9 0 4 9 7 0 0 0 41 45	07-Jun-16 A 18-Jul-16 A 27-Jul-16 A 15-Jul-16 A 30-Aug-16 07-Jul-16 A 15-Jun-16 A 24-Jun-16 A 28-Jun-16 A 04-Aug-16	22-Jul-16 06-Aug-16 04-Aug-16 14-Jul-16 A 23-Jul-16 07-Sep-16 26-Jul-16 23-Jun-16 A 06-Jul-16 A 29-Aug-16 18-Sep-16	-246 -535 -532 -534 -535 -534 -535	HK Working Day HK Working Day Calendar Day Calendar Day Calendar Day Calendar Day Calendar Day Calendar Day Calendar Day Calendar Day Calendar Day	Roof Waterproofing - Bay 5 to Bay 8	Remove formwork and falsework from Bay 16 prior to construct Remaining works at HY/2009/15 Interface King Post Load Transfer in Bay 1 to Bay 4, k Post Load Transfer in Bay 5 to Bay 8 King Post Load Transfer in Bay 9 to Bay 13, King Post Load Tr Roof Waterproofing - Bay 1 to Bay 4, Roof Waterproofing e - Bay 9 to Bay 13 Roof V
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S9B-T34-3105 F S9B-T34-3200 F S9B-T34-5600 K S9B-T34-5700 K S9B-T34-5700 K S9B-T34-5800 K S9B-T34-5900 K S9B-T34-6000 F S9B-T34-6100 F S9B-T34-6100 F S9B-T34-6200 F S9B-T34-6300 F S9B-T34-6300 F S9B-T34-7000 E S9B-T34-7100 E S9B-T34-7200 E S9B-T34-7300 E Bay 1 S9B-T34-B1-1185 S9B-T34-B1-11270 F	Carry out drilling works and saw or Remove formwork and falsework f Remaining works at HY/2009/15 In King Post Load Transfer in Bay 1 t King Post Load Transfer in Bay 5 t King Post Load Transfer in Bay 9 t King Post Load Transfer in Bay 14 Roof Waterproofing - Bay 1 to Bay Roof Waterproofing - Bay 5 to Bay Roof Waterproofing - Bay 9 to Bay Roof Waterproofing - Bay 1 to Ba ELS (S2-S4) Removal - Bay 1 to Ba ELS (S2-S4) Removal - Bay 5 to B ELS (S2-S4) Removal - Bay 1 to B S2-S4) Re	rom Bay 16 prior to constructing top slab of Bay 16 tterface for Section 9B Completion - Structural Stitching Works o Bay 4 o Bay 8 o Bay 13 to Bay 17 4 8 13 y 17 Bay 4 Bay 8 Bay 13 bay 13	15 20 9 9 9 7 7 7 7 7 7 7 7 45 45 45 45 45	3 18 9 0 4 9 7 7 0 0 0 41 45 25 40 45	07-Jun-16 A 18-Jul-16 A 27-Jul-16 A 15-Jul-16 A 30-Aug-16 A 15-Jun-16 A 24-Jun-16 A 24-Jun-16 A 28-Jun-16 A 04-Aug-16 28-Jun-16 A 14-Jul-16 A 14-Jul-16 A	22-Jul-16 06-Aug-16 04-Aug-16 14-Jul-16 A 23-Jul-16 07-Sep-16 26-Jul-16 23-Jun-16 A 06-Jul-16 A 29-Aug-16 18-Sep-16 13-Aug-16 28-Aug-16 02-Sep-16	-246 -535 -532 -534 -535 -534 -535 -499 -514 -495	HK Working Day HK Working Day Calendar Day	Roof Waterproofing - Bay 5 to Bay 8	Remove formwork and falsework from Bay 16 prior to construct Remaining works at HY/2009/15 Interface King Post Load Transfer in Bay 1 to Bay 4, K Post Load Transfer in Bay 5 to Bay 8 King Post Load Transfer in Bay 9 to Bay 13, King Post Load Transfer in Bay 9 to Bay 13, King Post Load Transfer in Bay 1 to Bay 4, Roof Waterproofing a - Bay 9 to Bay 13 Roof Waterproofing - Bay 1 to Bay 4, Roof Waterproofing ELS (S2-S4) Removal - Bay 5 ELS (S2-S4) R
S9B-T34-3105 F S9B-T34-3200 F S9B-T34-5600 K S9B-T34-5700 K S9B-T34-5800 K S9B-T34-5800 K S9B-T34-5900 K S9B-T34-6000 F S9B-T34-6100 F S9B-T34-6100 F S9B-T34-6200 F S9B-T34-6300 F S9B-T34-6300 F S9B-T34-7000 E S9B-T34-7100 E S9B-T34-7300 E Bay 1 S9B-T34-B1-1185	Carry out drilling works and saw or Remove formwork and falsework f Remaining works at HY/2009/15 In King Post Load Transfer in Bay 1 t King Post Load Transfer in Bay 5 t King Post Load Transfer in Bay 9 t King Post Load Transfer in Bay 14 Roof Waterproofing - Bay 1 to Bay Roof Waterproofing - Bay 5 to Bay Roof Waterproofing - Bay 9 to Bay Roof Waterproofing - Bay 1 to Ba ELS (S2-S4) Removal - Bay 1 to Ba ELS (S2-S4) Removal - Bay 5 to B ELS (S2-S4) Removal - Bay 1 to B S2-S4) Re	rom Bay 16 prior to constructing top slab of Bay 16 tterface for Section 9B Completion - Structural Stitching Works o Bay 4 o Bay 8 o Bay 13 to Bay 17 4 8 13 y 17 Bay 4 Bay 8 Bay 13 bay 13	15 20 9 9 9 7 7 7 7 7 7 7 7 45 45 45 45 45	3 18 9 0 4 9 7 7 0 0 0 41 45 25 40 45	07-Jun-16 A 18-Jul-16 A 27-Jul-16 A 15-Jul-16 A 30-Aug-16 A 15-Jun-16 A 24-Jun-16 A 24-Jun-16 A 28-Jun-16 A 04-Aug-16 28-Jun-16 A 14-Jul-16 A 14-Jul-16 A	22-Jul-16 06-Aug-16 04-Aug-16 14-Jul-16 A 23-Jul-16 07-Sep-16 26-Jul-16 23-Jun-16 A 06-Jul-16 A 29-Aug-16 18-Sep-16 13-Aug-16 28-Aug-16 02-Sep-16	-246 -535 -532 -534 -535 -534 -535 -499 -514 -495	HK Working Day HK Working Day Calendar Day	Roof Waterproofing - Bay 5 to Bay 8	Remove formwork and falsework from Bay 16 prior to construct Remaining works at HY/2009/15 Interface King Post Load Transfer in Bay 1 to Bay 4, K Post Load Transfer in Bay 5 to Bay 8 King Post Load Transfer in Bay 9 to Bay 13, King Post Load Transfer in Bay 9 to Bay 13, King Post Load Transfer in Bay 9 to Bay 4, Roof Waterproofing a - Bay 9 to Bay 13 Roof Waterproofing - Bay 1 to Bay 4, Roof Waterproofing bay 9 to Bay 13 Roof V ELS (S2-S4) Removal - Bay 5 ELS (S2-S4) Removal - Bay 5 ELS (S2-S4) Removal - Bay 5 Date
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S9B-T34-3105 F S9B-T34-3200 F S9B-T34-5600 K S9B-T34-5700 K S9B-T34-5800 K S9B-T34-5900 K S9B-T34-5900 K S9B-T34-5900 K S9B-T34-5900 F S9B-T34-6100 F S9B-T34-7000 E S9B-T34-7000 E S9B-T34-7000 E S9B-T34-7000 E S9B-T34-700 E S9B-T34-700 E S9B-T34-81-1185 C S9B-T34-81-1270 F Milestone Critical Miles Current Wor Current Wor	Carry out drilling works and saw or Remove formwork and falsework f Remaining works at HY/2009/15 In King Post Load Transfer in Bay 1 t King Post Load Transfer in Bay 5 t King Post Load Transfer in Bay 9 t King Post Load Transfer in Bay 14 Roof Waterproofing - Bay 1 to Bay Roof Waterproofing - Bay 1 to Bay ELS (S2-S4) Removal - Bay 1 to B ELS (S2-S4) Removal - Bay 5 to B ELS (S2-S4) Removal - Bay 1 to E ELS (S2-S4) Removal - Bay 5 to E ELS (S2-S4) Remova	rom Bay 16 prior to constructing top slab of Bay 16 tterface for Section 9B Completion - Structural Stitching Works o Bay 4 o Bay 8 o Bay 13 to Bay 17 4 8 13 y 17 Bay 4 Bay 8 Bay 13 bay 13	15 20 9 9 9 7 7 7 7 7 7 7 7 45 45 45 45 45	3 18 9 0 4 9 7 7 0 0 0 41 45 25 40 45	07-Jun-16 A 18-Jul-16 A 27-Jul-16 A 15-Jul-16 A 30-Aug-16 A 15-Jun-16 A 24-Jun-16 A 24-Jun-16 A 28-Jun-16 A 04-Aug-16 28-Jun-16 A 14-Jul-16 A 14-Jul-16 A	22-Jul-16 06-Aug-16 04-Aug-16 14-Jul-16 A 23-Jul-16 07-Sep-16 26-Jul-16 23-Jun-16 A 29-Aug-16 18-Sep-16 13-Aug-16 28-Aug-16 02-Sep-16 25-Jul-16 21-Jun-16 A	-246 -535 -532 -534 -535 -534 -535 -499 -514 -495 -263	HK Working Day HK Working Day Calendar Day	Roof Waterproofing - Bay 5 to Bay 8	Remove formwork and falsework from Bay 16 prior to construct Remaining works at HY/2009/15 Interface King Post Load Transfer in Bay 1 to Bay 4, K Post Load Transfer in Bay 5 to Bay 8 King Post Load Transfer in Bay 9 to Bay 13, King Post Load Transfer in Bay 9 to Bay 13, King Post Load Transfer in Bay 9 to Bay 4, Roof Waterproofing a - Bay 9 to Bay 13 Roof Waterproofing - Bay 1 to Bay 4, Roof Waterproofing bay 9 to Bay 13 Roof V ELS (S2-S4) Removal - Bay 5 ELS (S2-S4) Removal - Bay 5 ELS (S2-S4) Removal - Bay 5 Date
S9B-T34-3105 F S9B-T34-3200 F S9B-T34-5600 K S9B-T34-5700 K S9B-T34-5800 K S9B-T34-5900 K S9B-T34-5000 F S9B-T34-6100 F S9B-T34-6100 F S9B-T34-6100 F S9B-T34-6200 F S9B-T34-6300 F S9B-T34-7000 E S9B-T34-7000 E S9B-T34-7000 E S9B-T34-7000 E S9B-T34-7100 E S9B-T34-7200 E S9B-T34-7200 E S9B-T34-7200 E S9B-T34-7200 E S9B-T34-81-1125 C S9B-T34-81-1270 F Milestone Critical Millestone	Carry out drilling works and saw or Remove formwork and falsework f Remaining works at HY/2009/15 In King Post Load Transfer in Bay 1 t King Post Load Transfer in Bay 5 t King Post Load Transfer in Bay 9 t King Post Load Transfer in Bay 14 Roof Waterproofing - Bay 1 to Bay Roof Waterproofing - Bay 1 to Bay ELS (S2-S4) Removal - Bay 1 to B ELS (S2-S4) Removal - Bay 5 to B ELS (S2-S4) Removal - Bay 1 to E ELS (S2-S4) Removal - Bay 5 to E ELS (S2-S4) Remova	rom Bay 16 prior to constructing top slab of Bay 16 tterface for Section 9B Completion - Structural Stitching Works o Bay 4 o Bay 8 o Bay 13 to Bay 17 ·4 ·4 ·8 ·13 ·y 17 ·3ay 4 ·3ay 8 ·3ay 13 Bay 17 CHUN WO - CRGL	15 20 9 9 9 9 7 7 7 7 7 7 45 45 45 45 45 7 7 7	3 18 9 0 4 9 7 0 0 4 1 45 25 40 45 6 0	07-Jun-16 A 18-Jul-16 A 27-Jul-16 A 15-Jul-16 A 30-Aug-16 07-Jul-16 A 15-Jun-16 A 24-Jun-16 A 24-Jun-16 A 04-Aug-16 28-Jun-16 A 08-Jul-16 A 14-Jul-16 A 13-May-16 A 15-Jun-16 A	22-Jul-16 06-Aug-16 04-Aug-16 14-Jul-16 A 23-Jul-16 26-Jul-16 23-Jun-16 A 06-Jul-16 A 29-Aug-16 18-Sep-16 13-Aug-16 28-Aug-16 02-Sep-16 25-Jul-16 21-Jun-16 A	-246 -535 -532 -534 -535 -534 -535 -499 -514 -495 -263	HK Working Day HK Working Day Calendar Day	Roof Waterproofing - Bay 5 to Bay 8 Roof Waterproofing Roof - Waterproofing	Remove formwork and falsework from Bay 16 prior to construct Remaining works at HY/2009/15 Interface King Post Load Transfer in Bay 1 to Bay 4, k Post Load Transfer in Bay 5 to Bay 8 King Post Load Transfer in Bay 9 to Bay 13, King Post Load Transfer in Bay 9 to Bay 13, King Post Load Transfer in Bay 9 to Bay 14, Roof Waterproofing a - Bay 9 to Bay 13 Roof Waterproofing - Bay 1 to Bay 4, Roof Waterproofing b - Bay 9 to Bay 13 Roof V ELS (S2-S4) Removal - Bay 5 ELS (S2 Construct Roadside Barriers, Construct Roadside Barriers Date 20-Jul-16
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S9B-T34-3105 F S9B-T34-3200 F S9B-T34-5600 K S9B-T34-5700 K S9B-T34-5800 K S9B-T34-5900 K S9B-T34-5900 K S9B-T34-6000 F S9B-T34-6100 F S9B-T34-6200 F S9B-T34-6300 F S9B-T34-6300 F S9B-T34-7000 E S9B-T34-7200 E S9B-T34-7200 E S9B-T34-7200 E S9B-T34-81-1185 C S9B-T34-B1-1185 C S9B-T34-B1-11270 F Milestone Critical Milest Current Wor Critical World 	Carry out drilling works and saw or Remove formwork and falsework f Remaining works at HY/2009/15 In King Post Load Transfer in Bay 1 t King Post Load Transfer in Bay 1 t King Post Load Transfer in Bay 9 t King Post Load Transfer in Bay 14 Roof Waterproofing - Bay 1 to Bay Roof Waterproofing - Bay 1 to Bay ELS (S2-S4) Removal - Bay 1 to E ELS (S2-S4) Removal - Bay 1 to E ELS (S2-S4) Removal - Bay 14 to Construct Roadside Barriers Roof - Waterproofing Pastones orks rks	rom Bay 16 prior to constructing top slab of Bay 16 tterface for Section 9B Completion - Structural Stitching Works o Bay 4 o Bay 8 o Bay 13 to Bay 17 ·4 ·4 ·8 ·13 ·y 17 ·3ay 4 ·3ay 8 ·3ay 13 Bay 17 CHUN WO - CRGL	15 20 9 9 9 9 7 7 7 7 7 7 45 45 45 45 45 7 7 7	3 18 9 0 4 9 7 0 0 4 1 45 25 40 45 6 0	07-Jun-16 A 18-Jul-16 A 27-Jul-16 A 15-Jul-16 A 15-Jul-16 A 15-Jun-16 A 24-Jun-16 A 24-Jun-16 A 28-Jun-16 A 08-Jul-16 A 14-Jul-16 A 13-May-16 A 15-Jun-16 A	22-Jul-16 06-Aug-16 04-Aug-16 14-Jul-16 A 23-Jul-16 07-Sep-16 26-Jul-16 23-Jun-16 A 06-Jul-16 A 29-Aug-16 18-Sep-16 13-Aug-16 02-Sep-16 25-Jul-16 21-Jun-16 A CEDD	-246 -535 -532 -534 -535 -534 -535 -499 -514 -495 -263 -263	HK Working Day HK Working Day Calendar Day	Roof Waterproofing - Bay 5 to Bay 8 Roof Waterproofing Roof - Waterproofing	Remove formwork and falsework from Bay 16 prior to construct Remaining works at HY/2009/15 Interface King Post Load Transfer in Bay 1 to Bay 4, k Post Load Transfer in Bay 5 to Bay 8 King Post Load Transfer in Bay 9 to Bay 13, King Post Load Transfer in Bay 9 to Bay 13, King Post Load Transfer in Bay 9 to Bay 14, Roof Waterproofing conf Waterproofing - Bay 1 to Bay 4, Roof Waterproofing c - Bay 9 to Bay 13 Roof V ELS (S2-S4) Removal - Bay 5 ELS (S2-S4) Removal - Bay 5 ELS (S2-S4) Removal - Bay 5 Construct Roadside Barriers, Construct Roadside Barriers Date 20-Jul-16 Construct 2)
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D Works (1838 days) - E	stabliabmost Works	in Area 9	
D WORKS (1030 0ays) - E	stabilistiment works	III Alea o	
	and the second		
/stem (PS30.5) - Design /	Approval by AECON	I, Temp Covered Wa	lkw
Ferry Pier and P7-P9 Pu	mp Stations, Clarify	the alignment/details	of
s for relocating utilities fro	m the steel decking,	Liaison with utility co	mp
ary EVA to backfilled are		As a second residence of the second second second	
Dismantie exis	ting temporary EVA	and relocate existing Demolish the	
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	omovo formuork on	d folgowerk from Pou	16
ting top slab of Bay 16, R			
ing top slab of Bay 16, Re e for Section 9B Complet	ion - Structural Stite		
ling top slab of Bay 16, Re e for Section 9B Complet King Post Load Transfer i	ion - Structural Stitc n Bay 1 to Bay 4		
ing top slab of Bay 16, Ri e for Section 9B Complet King Post Load Transfer i ransfer in Bay 9 to Bay 13	ion - Structural Stitc in Bay 1 to Bay 4 3	hing Works, Remaini	ng
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ling top slab of Bay 16, R, e for Section 9B Complet King Post Load Transfer i ransfer in Bay 9 to Bay 1 King Post Load T	ion - Structural Stitc in Bay 1 to Bay 4 3	hing Works, Remaini	ng
ing top slab of Bay 16, R, e for Section 9B Complet King Post Load Transfer i ransfer in Bay 9 to Bay 1 King Post Load T I - Bay 1 to Bay 4	ion - Structural Stitc n Bay 1 to Bay 4 3 ransfer in Bay 14 to	hing Works, Remaini Bay 17, King Post Lo	ad
ting top slab of Bay 16, R e for Section 9B Complet King Post Load Transfer i ransfer in Bay 9 to Bay 1 King Post Load T I - Bay 1 to Bay 4 Waterproofing - Bay 14 to	ion - Structural Stitc n Bay 1 to Bay 4 3 ransfer in Bay 14 to 9 Bay 17, Roof Wate	hing Works, Remaini Bay 17, King Post Lo rproofing - Bay 14 to	ng ad Ba
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- Bay 1 to Bay 4 Waterproofing - Bay 14 to	ion - Structural Stitc in Bay 1 to Bay 4 3 ransfer in Bay 14 to 9 Bay 17, Roof Wate ELS (S2-S4) Remov Removal - Bay 5 to E 9 Bay 13, ELS (S2-S	hing Works, Remaini Bay 17, King Post Lo rproofing - Bay 14 to al - Bay 1 to Bay 4, E tay 8 4) Removal - Bay 9 t	ad Ba LS
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ing top slab of Bay 16, R, e for Section 9B Complet King Post Load Transfer i ransfer in Bay 9 to Bay 13 King Post Load T - Bay 1 to Bay 4 Waterproofing - Bay 14 to to Bay 8, ELS (S2-S4) F 2-S4) Removal - Bay 9 to ELS (S2-S4) Removal - 1 Revision	ion - Structural Stitc n Bay 1 to Bay 4 3 ransfer in Bay 14 to b Bay 17, Roof Wate ELS (S2-S4) Remov Removal - Bay 5 to E b Bay 13, ELS (S2-S Bay 14 to Bay 17, El	hing Works, Remaini Bay 17, King Post Lo rproofing - Bay 14 to al - Bay 1 to Bay 4, E bay 8 4) Removal - Bay 9 t _S (S2-S4) Removal	ad Ba LS
ing top slab of Bay 16, R, e for Section 9B Complet King Post Load Transfer i ransfer in Bay 9 to Bay 13 King Post Load T - Bay 1 to Bay 4 Waterproofing - Bay 14 to to Bay 8, ELS (S2-S4) F 2-S4) Removal - Bay 9 to ELS (S2-S4) Removal - 1 Revision	ion - Structural Stitc n Bay 1 to Bay 4 3 ransfer in Bay 14 to b Bay 17, Roof Wate ELS (S2-S4) Remov Removal - Bay 5 to E b Bay 13, ELS (S2-S Bay 14 to Bay 17, El	hing Works, Remaini Bay 17, King Post Lo rproofing - Bay 14 to al - Bay 1 to Bay 4, E bay 8 4) Removal - Bay 9 t _S (S2-S4) Removal	ad Ba LS
ing top slab of Bay 16, R, e for Section 9B Complet King Post Load Transfer i ransfer in Bay 9 to Bay 13 King Post Load T - Bay 1 to Bay 4 Waterproofing - Bay 14 to to Bay 8, ELS (S2-S4) F 2-S4) Removal - Bay 9 to ELS (S2-S4) Removal - 1 Revision	ion - Structural Stitc n Bay 1 to Bay 4 3 ransfer in Bay 14 to b Bay 17, Roof Wate ELS (S2-S4) Remov Removal - Bay 5 to E b Bay 13, ELS (S2-S Bay 14 to Bay 17, El	hing Works, Remaini Bay 17, King Post Lo rproofing - Bay 14 to al - Bay 1 to Bay 4, E bay 8 4) Removal - Bay 9 t _S (S2-S4) Removal	ad Ba LS
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ing top slab of Bay 16, R, e for Section 9B Complet King Post Load Transfer i ransfer in Bay 9 to Bay 13 King Post Load T - Bay 1 to Bay 4 Waterproofing - Bay 14 to to Bay 8, ELS (S2-S4) F 2-S4) Removal - Bay 9 to ELS (S2-S4) Removal - 1 Revision	ion - Structural Stitc n Bay 1 to Bay 4 3 ransfer in Bay 14 to b Bay 17, Roof Wate ELS (S2-S4) Remov Removal - Bay 5 to E b Bay 13, ELS (S2-S Bay 14 to Bay 17, El	hing Works, Remaini Bay 17, King Post Lo rproofing - Bay 14 to al - Bay 1 to Bay 4, E bay 8 4) Removal - Bay 9 t _S (S2-S4) Removal	ad Ba LS

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vity ID	Activity Name		Ori Dur	Rem Dur	Scheduled/ Actual Start	Scheduled/ Actual Finish	Total	Calendar	100			2016	
	1		Dur	Dur	Actual Start	Actual Finish	Float		19 26 03 10	17 24 31		gust 14 21	28
S9B-T34-B1-1280	Roof - Rebar Fixing & Formwork		12	0	17-Jun-16 A	21-Jun-16 A	1	Calendar Day	Roof - Rebar Fixing & Formwork				
S9B-T34-B1-1290	Roof - Concrete		1	0	22-Jun-16 A	22-Jun-16 A		Calendar Day	Roof - Concrete		1		
S9B-T34-B1-1300	Roof - Curing		14	0	23-Jun-16 A	06-Jul-16 A		Calendar Day	Roof - Curing				
S9B-134-B1-1310 Bay 2	Roof - Scaffolding Dismantling		11	4	07-Jul-16 A	23-Jul-16	-261	Calendar Day		Roof - Scaffolding	Dismantling, R	oof - Scaffolding Dis	mantling
	Construct Roadside Barriers		7	20	09-May-16 A	08-Aug-16	-277	Calendar Day		1 1			
S9B-T34-B2-1300	Roof - Curing		14	0	13-Jun-16 A	26-Jun-16 A	-211	Calendar Day	Roof - Curing		Construc	t Roadside Barriers,	Construc
S9B-T34-B2-1310	Roof - Scaffolding Dismantling		7	0	02-Jul-16 A	14-Jul-16 A		Calendar Day		Scaffolding Dismantling			
Bay 3			-										
	Roof - Scaffolding Dismantling		7	0	30-Jun-16 A	03-Jul-16 A		Calendar Day	Roof - Scaffolding Disr	man tling			
Bay 4 S9B-T34-B4-1185	Construct Roadside Barriers		8	11	03-May-16 A	30-Jul-16	-240	HK Working Day	the second s				marrie
S9B-T34-B4-1300	Roof - Curing		14	0	10-Jun-16 A	24-Jun-16 A	-240	Calendar Day	Roof - Curing	Constr	ict Roadside Ba	arriers, Construct Ro	adside B
S9B-T34-B4-1310	Roof - Scaffolding Disman ting		7	0	27-Jun-16 A	03-Jul-16 A	-	Calendar Day	Roof - Scaffolding Disr	men tling			
Bay 5					27 dui 1071	oo our rom		Galeridal Day	The scale of the s	narrung			
ALC: NO DECISION OF THE OWNER OF	Roof - Scaffolding Dismantling		7	0	23-Jun-16 A	29-Jun-16 A		Calendar Day	Roof - Scaffolding Disman tlir				
Bay 6	Boof Coeffeiding Discourse									1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 2			
Bay 7	Roof - Scaffolding Dismantling		7	0	10-Jun-16 A	29-Jun-16 A		Calendar Day	Roof - Scaffolding Disman tlin	יפ			
	Construct Roadside Barriers		8	0	25-Mar-16 A	13-Jul-16 A	-	HK Working Day	Constra	et Roadside Barriers			
Bay 8					20 Mar 1074	10-00FTO A		The working Day	Constr	Tet Roadside Darners			
S9B-T34-B8-1185	Construct Roadside Barriers		8	0	25-Mar-16 A	13-Jul-16 A		HK Working Day	Constru	et Roadside Barriers			
Bay 9	And the second second		-			1000							
	Construct Roadside Barriers Roof - Scaffolding Dismantling		8	0	27-Mar-16 A	15-Jul-16 A		HK Working Day		struct Roadside Barriers			
Bay 10	Roor - Scanolding Dismantling		7	0	16-Jun-16 A	21-Jun-16 A		Calendar Day	Roof - Scaffolding Disman tling				
	Construct Roadside Barriers		8	0	29-Mar-16 A	15-Jul-16 A	1	HK Working Day	Con	struct Roadside Barriers			
S9B-T34-B10-1310	Roof - Scaffolding Dismantling		7	0	16-Jun-16 A	21-Jun-16 A		Calendar Day	Roof - Scaffolding Disman ling	Since Roadside Barners			
Bay 11	a state and the												
	Construct Roadside Barriers		8	0	20-Apr-16 A	13-Jul-16 A		HK Working Day	Constru	et Roadside Barriers			
	Roof - Scaffolding Dismantling		7	0	19-Jun-16 A	03-Jul-16 A		Calendar Day	Roof - Scaffolding Disr	man tling			
Bay 12 S9B-T34-B12-1185	Construct Roadside Barriers		0	0	00.4	15 1 1 10 1	-						
	Roof - Scaffolding Disman tling		8	0	22-Apr-16 A 19-Jun-16 A	15-Jul-16 A		HK Working Day		struct Roadside Barriers			
Bay 13	riter standarding Plantantung		-	U	19-JUN-10 A	03-Jul-16 A	-	Calendar Day	Roof - Scaffolding Disr	nanting			
S9B-T34-B13-1185	Construct Roadside Barriers		8	0	18-Apr-16 A	15-Jul-16 A	-	HK Working Day	Con	sruct Roadside Barriers			
Bay 14							1			and the second second second			
	Construct Roadside Barriers		8	0	22-Apr-16 A	13-Jul-16 A		HK Working Day	Constru	et Roadside Barriers			
Bay 15 S9B-T34-B15-1175	Construct Roadside Barriers		8	0	21-Apr-16 A	10 11 10 1		Inches the D					
	OHVD Base Slab (South) - Conc	crete & Curring	14	0	19-May-16 A	18-Jul-16 A 04-Jul-16 A		HK Working Day		Construct Roadside Barrie	rs		
	Roof - Scaffolding Disman tling	and a baring	7	0	25-Jun-16 A	30-Jun-16 A		Calendar Day Calendar Day	Roof - Scaffolding Dismant	outh) - Concrete & Curing		1000 (m	
Bay 16	a trintrang	Annual and the second		U	23-341-10 A	30-301-10 A	-	Galendar Day	Rooi - Scanolding Dismant	ing			
	Construct Roadside Barriers (No		6	6	21-Jul-16	27-Jul-16	-485	HK Working Day		Construct R	oadside Barriers	s (North and South),	. Constru
	Wall (Middle) - Rebar Fixing & W	/orking Platform	3	2	17-Apr-16 A	21-Jul-16	-543	Calendar Day		Wall (Middle) - Reba			
	Wall (Middle) - Formwork		2	0	20-Apr-16 A	23-Jul-16	-543	Calendar Day		Wall (Middle) - Fo			
	Wall (Middle) - Concrete		1	0	22-Apr-16 A	24-Jul-16	-543	Calendar Day		Wall (Middle) - 0	Concrete, Wall (Middle) - Concrete	
The Print of the State of the S	Wall (Middle) - Curing & Formwo		3	0	23-Apr-16 A	27-Jul-16	-543	Calendar Day		Wall (Middl	e) - Curing & Fo	mwork Dismantling,	, Wall (M
	Construct Roadside Barriers (Mid		4	4	27-Jul-16	01-Aug-16	-240	HK Working Day		Cons	truct Roadside	Barriers (Middle), Ce	onstruct
	OHVD Base Slab (North) - Scaffe		3	3	27-Jul-16	29-Jul-16	-543	Calendar Day) - Scaffolding Erect	
STRUCTURE AND AND AND AND AND AND	OHVD Base Slab (North) - Form OHVD Base Slab (North) - Conci		4	4	27-Jul-16	30-Jul-16	-543	Calendar Day		OHVD	about the second s	th) - Form work & Re	*********
A CONTRACTOR OF A CONTRACTOR O	OHVD Base Slab (North) - Hang		13	13	31-Jul-16	13-Aug-16	-543	Calendar Day				HVD Base Slab (No	
	OHVD Base Slab (South) - Scaff				01-Aug-16	05-Aug-16	-543	Calendar Day		19 - Anna Carlos		Slab (North) - Hange	
			5	5	26-Jul-16	31-Jul-16	-544	Calendar Day				uth) - Scaffolding Er	
to Martin Providence Contractor	OHVD Base Slab (South) - Form OHVD Base Slab (South) - Conc		6 13	6	28-Jul-16	03-Aug-16	-544	Calendar Day				(South) - Formwork	
	OHVD Base Slab (South) - Hang	2 PS NE CONTROL & P	4	13	03-Aug-16 03-Aug-16	17-Aug-16	-544	Calendar Day	······································		deservation and the state	OHVD Base Sla	
100 miles 100 miles			**	4	03-Aug-10	07-Aug-16	-544	Calendar Day		á	UHVD Bas	e Slab (South) - Har	nger Wall
 Milestone 												Date	
Critical Mil	estones											20-Jul-16	
Current W		CHUN WO - CRGL				CEDD	000		NO HIV/2000/00				
Gunentw	UING	CHOIL NO - CKGL				CEDD		NIKACI	NO. HK/2009/02				

Critical Milestones	and the second second second second		20-Jul-16
Current Works	CHUN WO - CRGL	CEDD CONTRACT NO. HK/2009/02	
Critical Works			
Remaining Level of Effort	JOINT VENTURE	WD II - Central Wanchai Bypass at Wan Chai East (Contract 2)	
		3-MONTH ROLLING PROGRAMME (dd 20-Jul-16)	

	Contomi				Outobas	
04	Septerni 11	18	25	02	October 09	16
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	de Barriers					
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	uring & Forr Barriers (N		nantling			
			ng Erection ormwork & F			
	1.1.1	a hand a start and	ab (North) -			
			e Slab (Nor		ger Wall &	Scaff
			olding Erect th) - Formw		ebar Fixing	
	ete & Curing	, OHVD B	ase Slab (S	outh) - C	oncrete &	Curing
	Iding to Ro	of, OHVD E	Base Slab (S	South) -	Hanger Wa	all & S
	and to the second	C	hecked		Approve	ed
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CEDD CONTRACT HK/2009/02

ity ID	Activity Name	On Dur	Rem Dur	Scheduled/ Actual Start	Scheduled/ Actual Finish	Total Float	Calendar	-	1	1		luly	-		1	2016 August
		Dui	Dui	Reidar Start	Actual rithsh	Float		19	26	03	10	1	17	24	31	07 14 21
	Roof - Waterproofing	2	2	05-Aug-16	07-Aug-16	-544	Calendar Day		8		3		-		1	Roof - Waterproofing, Roof -
	Roof - Rebar Fixing & Formwork	5	5	03-Aug-16	09-Aug-16	-544	Calendar Day									Roof - Rebar Fixing & Form
S9B-T34-B16-1280		1	1	09-Aug-16	09-Aug-16	-544	Calendar Day									Roof - Concrete, Roof - Co
S9B-T34-B16-1290	Roof - Curing	4	4	09-Aug-16	13-Aug-16	-544	Calendar Day									Roof - Curing, Roof -
S9B-T34-B16-1300	Roof - Scaffolding Disman tling	8	8	13-Aug-16	21-Aug-16	-289	Calendar Day		1000							Roof - Se
Bay 17							and the second second									
	Construct Roadside Barriers	4	4	23-Jul-16	26-Jul-16	-543	Calendar Day						Ę	Cor	nstruct Ro	adside Barriers, Construct Roadsi
	OHVD Base Slab (North) - Scaffolding Erection	3	3	27-Jul-16	29-Jul-16	-543	Calendar Day								OHVD B	ase Slab (North) - Scaffolding Ere
	OHVD Base Slab (North) - Formwork & Rebar Fixing	3	3	29-Jul-16	31-Jul-16	-275	Calendar Day		Į.							Base Slab (North) - Formwork &
S9B-T34-B17-1210	OHVD Base Slab (North) - Concrete & Curing	12	12	01-Aug-16	13-Aug-16	-275	Calendar Day									OHVD Base Slab (N
S9B-T34-B17-1220	OHVD Base Slab (North) - Hanger Wall	3	3	03-Aug-16	06-Aug-16	-275	Calendar Day						1.1			OHVD Base Slab (North) - Har
S9B-T34-B17-1230	OHVD Base Slab (South) - Scaffolding Erection	3	3	27-Jul-16	29-Jul-16	-278	Calendar Day							1000	OHVD B	ase Slab (South) - Scaffolding Ere
S9B-T34-B17-1240	OHVD Base Slab (South) - Formwork & Rebar Fixing	3	3	29-Jul-16	31-Jul-16	-278	Calendar Day								OHVI	Base Slab (South) - Formwork &
	OHVD Base Slab (South) - Concrete & Curing	12	12	01-Aug-16	13-Aug-16	-278	Calendar Day									OHVD Base Slab (S
S9B-T34-B17-1260	OHVD Base Slab (South) - Hanger Wall	3	3	03-Aug-16	06-Aug-16	-278	Calendar Day									OHVD Base Slab (South) - Har
S9B-T34-B17-1280	OHVD - Scaffolding Dismantling	4	4	06-Aug-16	10-Aug-16	-278	Calendar Day									OHVD - Scaffolding Dism
S9B-T34-B17-1294	Roof - Scaffolding Dismantling	3	0	18-Jun-16 A	20-Jun-16 A		Calendar Day	Roof -	Scaffoldi	ng Dismant	ding					
S9B-T34-B17-1311	Construct Remaining Base Slab and Walls (after bulkhead breakthrough at eastern tunnel)	4	2	18-Jul-16 A	21-Jul-16	-543	Calendar Day						- C	onstruct F	Remaining	Base Slab and Walls (after bulkhi
S9B-T34-B17-1312	OHVD Base Slab (Remaining after bulkhead breakthrough) - Scaffolding Erection	3	3	22-Jul-16	24-Jul-16	-538	Calendar Day					1		OHVD	Base Sla	(Remaining after bulkhead break
S9B-T34-B17-1313	OHVD Base Slab (Remaining after bulkhead breakthrough) - Formwork & Rebar Fixing	4	4	24-Jul-16	28-Jul-16	-276	Calendar Day									e Slab (Remaining after bulkhead
The state of the state	OHVD Base Slab (Remaining after bulkhead breakthrough) - Concrete	1	1	01-Aug-16	01-Aug-16	-280	Calendar Day									
	OHVD Base Slab (Remaining after bulkhead breakthrough) - Curing	7	7	02-Aug-16		-280		-								D Base Slab (Remaining after bul
	OHVD Base Slab (Remaining after bulkhead breakthrough) - Hanger Walls	-			08-Aug-16	100.00	Calendar Day									OHVD Base Slab (Remainin
AVE OF MERICAL COLUMN		3	3	02-Aug-16	04-Aug-16	-276	Calendar Day									OHVD Base Slab (Remaining afte
	Construct Remaining Top Slab (after bulkhead breakthrough at eastern tunnel) OHVD - Remaining Scaffolding Dismantling	3	3	02-Aug-16	04-Aug-16	-276	Calendar Day									Construct Remaining Top Slab (al
		3	3	09-Aug-16	11-Aug-16	-280	Calendar Day									OHVD - Remaining Sca
	s - CWB Tunnel Structure (CH3246 - CH3400)															
Funnel Portion 5 (0	CH3276-CH3400)												1			
S10-T5-1060	Pump Test / Instrumentation - Tunnel Portion 5	27	5	27-Mar-16 A	24-Jul-16	-496	Calendar Day	-		-	-		-	Pump	Test / Ins	rumentation - Tunnel Portion 5, Pi
S10-T5-2010	Tunnel Portion 5 - Excavate to Level S1A and Install Strut S1A (3,500m3@ 900m3/d)	18	0	20-May-16 A	23-Jun-16 A		Calendar Day	T	unnel Por	tion 5 - Exc	avate to L	evel S	1A and	Install S	trut S1A (3,500m3@ 900m3/d)
S10-T5-2020	Tunnel Portion 5 - Excavate to Level S1 and Install Strut S1 (35,000m3@ 1100m3/d)	39	7	07-Jun-16 A	26-Jul-16	-597	Calendar Day	-					*******	Tur	nnel Portic	n 5 - Excavate to Level S1 and Ins
S10-T5-2030	Tunnel Portion 5 - Excavate to Level S2 and Install Strut S2 (36,800m3@ 1100m3/d)	42	42	27-Jul-16	06-Sep-16	-597	Calendar Day					1	1		-	
S10-T5-2040	Tunnel Portion 5 - Excavate to Level S3 and Install Strut S3 (54,700m3@ 1100m3/d)	57	57	07-Sep-16	02-Nov-16	-597	Calendar Day						1			
ection 11 of the	Works - Remainder of Works															
Demolition Works																
S11-DEM 0-1100	Demolition of existing WSD salt water pumping station	53	103	13-Jun-16 A	30-Oct-16	-246	Calendar Day			12-111-0-0	àn an an an				Erron	
S11-DEMO-1300	Demoliton of abandoned seawall down to +1.5mPD - at the north of Ex-Salt Water Pump Station	12	12	12-Oct-16	25-Oct-16	-48	HK Working Day	1			1	12			-	1 1 1 1
	d Landscaping Works	12	14	12-04-10	23-000-10	-40	The working Day									
S11-FM-3000A	Tunnel Portion 3 & 4 Backfilling to -6mPD (90,000m3; 1,000m3/d)	102	102	20 141 16	OF New 10	502								_	ř.	
S11-FM-3000B1	Permament Seawall Construction (within temp D-Walls) for WCR4 Reclamation [Summary]	475	102	20-Jul-16	05-Nov-16	-503	HK Working Day						-			
Misc. Works	remainen Seawar Construction (within temp D-wails) for WCR4 Reclamation [Summary]	475	475	24-Aug-16	12-Dec-17	-523	Calendar Day									
Removal of Tempor		-											1			
	Works within Temp D-Wall - Public Fill above roof to formation level of rock mound	34	34	20-Jul-16	23-Aug-16	-491	HK Working Day									Work
S11-RTC-3020	Works within Temp D-Wall - Place rock mound to -6.0mPD (Grade 400: 6,000m3)	12	12	24-Aug-16	05-Sep-16	-491	HK Working Day						1			land and a second
S11-RTC-3022	Works within Temp D-Wall - Place Type A Rock fill, Geotextile and Filter to -6.0mPD	6	6	05-Sep-16	10-Sep-16	-491	HK Working Day	-								
S11-RTC-3023	Works within Temp D-Wall - Place Sorted Public Fill to -6.0mPD	12	12	12-Sep-16	24-Sep-16	-491	HK Working Day									
S11-RTC-3024	Works within Temp D-Wall - Place Type A Rockfill and Filter from -6.0mPD to -2.0mPD	6	6	24-Sep-16	30-Sep-16	-491	HK Working Day	9								
S11-RTC-3025	Works within Temp D-Wall - Place Sorted Public Fill from -6.0mPD to -2.0mPD	12	12	03-Oct-16	15-Oct-16	-491	HK Working Day						3			
S11-RTC-3028	Works within Temp D-Wall - Place Mass Concrete Footing for HHR Flyover from -2.0mPD to +2.75	12	12	15-Oct-16	28-Oct-16	-491	HK Working Day									
oft Landscaping	g & Establishment Works															
Section 8D of the V	Norks - Establishment Works in Area 8									10100000		100				
S8D-0010	Carry out establishment work on new ferry pier	288	39	28-Aug-15 A	27-Aug-16	-264	Calendar Day	-	-	-	-	-	-			
Section 12 of the V	Vorks - Protection and Preservation of Existing Trees								1	1	1	1			1	1 1 1
S12-0010	Protection and preservation of existing trees	2111	613	24-Feb-10 A	24-Mar-18	-570	Calendar Day	-	1	_	1	E			1	d
and the second sec	No. of the second s		0.0	LA TOD-IVA	L-F INGLE TO	-570	Calendar Day	-				- 1	r			
1			_	_								_	_			
 Milestone 																Date
Critical Mil	estones															20-Jul-16
Current W					CEDE	00	NTRACT			1200	0/05	2				
							and 0 000 / 3.0	1.1.1	a gant h		- S.H / B B -					

Critical Milestones	CHUN WO - CRGL	CEDD CONTRACT NO. HK/2009/02	20-Jul-16
Critical Works Remaining Level of Effort	JOINT VENTURE	WD II - Central Wanchai Bypass at Wan Chai East (Contract 2)	
		3-MONTH ROLLING PROGRAMME (dd 20-Jul-16)	

	Septem	ber			4		Oct	ober	
04 fing	11	18		25		02		09	16
	ar Fixing & F	omwor	ĸ						
	1.1.4								
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	/D Base Sla	To b A L +	1.444.4				264.0		
	Curing, OH					Joner	ete ö	Curing	
	Base Slab (N Slab (South								
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	Curing, OH		1.1						9
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	00m3@ 110								
	00m3@ 110 Innel Portion								
emp D-V	nnel Portion	5 - Exc	avate	e to Le	evel S	tion le	l Inst	f rock m	S2 (3
Tu	nnel Portion Vall - Public ks within Te	5 - Exc Fill abo mp D-V	ve ro Vall -	e to Le	orma rock	tion le	l Inst vel o	f rock m	S2 (3 nound,
Tu	nnel Portion	5 - Exc Fill abo mp D-V	ve ro Vall - mp D	e to Le of to f Place	orma rock	32 and tion le mour	l Inst vel o id to	f rock m -6.0mPl Rock fi	S2 (3 sound, D (Gra
emp D-V	nnel Portion Vall - Public ks within Te	5 - Exc Fill abo mp D-V	ve ro Vall - mp D	e to Le of to f Place	orma rock s with	tion le mour ace Ty	vel o npe A	f rock m -6.0mP Rock fi -Wall - I	S2 (3 D) (Gra D) (Gra Place
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emp D-V	nnel Portion Vall - Public ks within Te	5 - Exc Fill abo mp D-V	ve ro Vall - mp D	e to Le of to f Place	orma rock s with	tion le mour ace Ty	vel o npe A	f rock m -6.0mP Rock fi -Wall - I	S2 (3 D) (Gra D) (Gra Place
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emp D-V	vall - Public ks within Te Works w	Fill abo mp D-₩	ve ro Vall - mp D	e to Le of to f Place -Wal Work	orma rock - Pla s with	tion le mour ace Ty in Ter 'orks t	vel o id to pe A np D within	f rock m -6.0mPl Rock fil Wall - I Temp	S2 (3 D (Gra Place D-Wa Wo
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emp D-V	vall - Public ks within Te Works w	Fill abo mp D-₩	ve ro Vall - mp D	e to Le of to f Place -Wal Work	orma rock - Pla s with	tion le mour ace Ty in Ter 'orks t	vel o id to pe A np D within	f rock m -6.0mPl Rock fil Wall - I Temp	S2 (3 D (Gra Place D-Wa Wo
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emp D-V	Vall - Public ks within Te Works w hment work	Fill abo mp D-₩	ve ro Vall - mp D	e to Le of to f Place -Wal Work	orma rock - Pla s with W	tion le mour ace Ty in Ter 'orks t	vel o nd to pe A np D within	f rock m -6.0mPl Rock fil Wall - I Temp	S2 (3 nound, D (Gra II, Gec D-Wa II Wo L Wo L
emp D-V	Vall - Public ks within Te Works w hment work	Fill abo mp D-₩	ve ro Vall - mp D	of to f Place -Wal Pier,	orma rock - Pla s with W	tion le mour ace Ty in Ter 'orks t	vel o nd to pe A np D within	f rock m 6.0mP Rock fi Temp	S2 (3 nound, D (Gra II, Gec D-Wa II Wo L Wo L
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emp D-V	Vall - Public ks within Te Works w hment work	Fill abo mp D-₩	ve ro Vall - mp D	of to f Place -Wal Pier,	orma rock - Pla s with W	tion le mour ace Ty in Ter 'orks t	vel o nd to pe A np D within	f rock m 6.0mP Rock fi Temp	S2 (3 nound, D (Gra II, Gec D-Wa II Wo L Wo L
emp D-V	Vall - Public ks within Te Works w hment work	Fill abo mp D-₩	ve ro Vall - mp D	of to f Place -Wal Pier,	orma rock - Pla s with W	tion le mour ace Ty in Ter 'orks t	vel o nd to pe A np D within	f rock m 6.0mP Rock fi Temp	S2 (3 nound, D (Gra II, Gec D-Wa II Wo L Wo L
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emp D-V	Vall - Public ks within Te Works w hment work	Fill abo mp D-₩	ve ro Vall - mp D	of to f Place -Wal Pier,	orma rock - Pla s with W	tion le mour ace Ty in Ter 'orks t	vel o nd to pe A np D within	f rock m 6.0mP Rock fi Temp	S2 (3 nound, D (Gra II, Gec D-Wa II Wo L Wo
emp D-V	Vall - Public ks within Te Works w hment work	Fill abo mp D-₩	ve ro Vall - mp D	of to f Place -Wal Pier,	orma rock - Pla s with W	tion le mour ace Ty in Ter 'orks t	vel o nd to pe A np D within	f rock m 6.0mP Rock fi Temp	S2 (3 nound, D (Gra II, Gec D-Wa II Wo L Wo

P	ま CHINA STATE - LEA				
	Activity Name	Remaining Dur	Early Start	Early Finish	Total Float
08	Revised Works Programme Rev.8 (DD 31 Aug	just 2016)			
ng a	nd Reclamation				
e Wo	k Construction				
e A1					
	struction - Zone A1				
IAR10330	Zone A1 - Seawall - Install remaining seawall type 3 (after reinstatement of culver k and cooling mains)	11	31-Aug-16	10-Sep-16	-68
MAR10340	Zone A1 - seawall - place type A behind seawall type 3	5	11-Sep-16	15-Sep-16	-68
MAR10345	Zone A1 - seawall - lay geotextile and filter behind seawall Type 3	6	16-Sep-16	21-Sep-16	-68
thers - Lan	ding Steps				
MAR21360	Zone A2 - [summary] landing steps at seawall 4	77	05-Dec-16	11-Mar-17	-28
MAR21380	Zone B - [summary] landing steps at seawall 5	73	05-Dec-16	07-Mar-17	-24
4AR21400	Zone D - [summary] landing steps at seawall 9	70	05-Dec-16	03-Mar-17	-21
MAR21420	Zone A2 - [summary] landing steps at seawall 13	73	05-Dec-16	07-Mar-17	-24
orks for S	ection Completion				
nstructio	n				
ection II -	1VB Structure				
	4VB Structure ucture - ELS & Structural Works for Portion A				
4VB Substr					
MVB Substr	ucture - ELS & Structural Works for Portion A	7	20-Sep-16	26-Sep-16	-166
MVB Substr	ucture - ELS & Structural Works for Portion A ucture - Structural Works for Portion A	7 46	20-Sep-16 20-Sep-16	26-Sep-16 04-Nov-16	-166
IVB Substr MVB Substr SII11250	ucture - ELS & Structural Works for Portion A ucture - Structural Works for Portion A Sec II - MVB A : Remove strut S1				
MVB Substr MVB Substr SII11250 SII11252 SII11254	ucture - ELS & Structural Works for Portion A ucture - Structural Works for Portion A Sec II - MVB A : Remove strut S1 Sec II - MVB A : Remove bulkhead at east	46	20-Sep-16	04-Nov-16 16-Nov-16	-159
MVB Substr MVB Substr SII11250 SII11252 SII11254 SII11260	ucture - ELS & Structural Works for Portion A ucture - Structural Works for Portion A Sec II - MVB A : Remove strut S1 Sec II - MVB A : Remove bulkhead at east Sec II - MVB A : Remove bulkhead at west Sec II - MVB A : Construct Bay 14- B2M/F wall	46 46 6	20-Sep-16 02-Oct-16 29-Jul-16 A	04-Nov-16 16-Nov-16 05-Sep-16	-159 -166 -166
MVB Substr MVB Substr SII11250 SII11252 SII11254 SII11260 SII11300	ucture - ELS & Structural Works for Portion A ucture - Structural Works for Portion A Sec II - MVB A : Remove strut S1 Sec II - MVB A : Remove bulkhead at east Sec II - MVB A : Remove bulkhead at west Sec II - MVB A : Construct Bay 14- B2M/F wall Sec II - MVB A : Construct Bay 15 - B2M/F OHVD	46 46 6 10	20-Sep-16 02-Oct-16 29-Jul-16 A 06-Sep-16	04-Nov-16 16-Nov-16 05-Sep-16 15-Sep-16	-159 -166 -166
MVB Substr MVB Substr SII11250 SII11252 SII11254 SII11260 SII11300 SII11420	ucture - ELS & Structural Works for Portion A ucture - Structural Works for Portion A Sec II - MVB A : Remove strut S1 Sec II - MVB A : Remove bulkhead at east Sec II - MVB A : Remove bulkhead at west Sec II - MVB A : Construct Bay 14- B2M/F wall Sec II - MVB A : Construct Bay 14- B2M/F wall Sec II - MVB A : Construct Bay 14a - B2M/F wall Sec II - MVB A : Construct Bay 14a - B2M/F wall	46 46 6 10 13	20-Sep-16 02-Oct-16 29-Jul-16 A 06-Sep-16 12-Nov-16	04-Nov-16 16-Nov-16 05-Sep-16 15-Sep-16 24-Nov-16	-159 -166 -166 -166 -166
MVB Substr MVB Substr SII11250 SII11252 SII11254 SII11260 SII11260 SII11260 SII11260 SII11260 SII11260 SII11260 SII11260 SII11300 SII11420 SII11960	ucture - ELS & Structural Works for Portion A ucture - Structural Works for Portion A Sec II - MVB A : Remove strut S1 Sec II - MVB A : Remove bulkhead at east Sec II - MVB A : Remove bulkhead at west Sec II - MVB A : Construct Bay 14- B2M/F wall Sec II - MVB A : Construct Bay 15 - B2M/F OHVD Sec II - MVB A : Construct Bay 14a - B2M/F wall Sec II - MVB A : Construct Bay 15a - B2M/F OHVD Sec II - MVB A : Construct Bay 15a - B2M/F OHVD	46 46 6 10 13 6	20-Sep-16 02-Oct-16 29-Jul-16 A 06-Sep-16 12-Nov-16 25-Nov-16	04-Nov-16 16-Nov-16 05-Sep-16 15-Sep-16 24-Nov-16 30-Nov-16	-159 -166 -166 -166 -166 -166
MVB Substr MVB Substr SII11250 SII11252 SII11254 SII11260 SII11260 SII11260 SII11260 SII11260 SII11260 SII11260 SII11260 SII11300 SII11420 SII11980	ucture - ELS & Structural Works for Portion A ucture - Structural Works for Portion A Sec II - MVB A : Remove strut S1 Sec II - MVB A : Remove bulkhead at east Sec II - MVB A : Remove bulkhead at west Sec II - MVB A : Remove bulkhead at west Sec II - MVB A : Construct Bay 14- B2M/F wall Sec II - MVB A : Construct Bay 15 - B2M/F OHVD Sec II - MVB A : Construct Bay 15 - B2M/F Wall (adjacent to bulkhead) Sec II - MVB A : Construct Bay 15a - B2M/F OHVD (adjacent to bulkhead) Sec II - MVB A : Construct Bay 15a - B2M/F OHVD (adjacent to bulkhead) Sec II - MVB A : Construct Bay 15a - B2M/F OHVD (adjacent to bulkhead) Sec II - MVB A : Construct Bay 15a - B2M/F OHVD (adjacent to bulkhead)	46 46 6 10 13 6 19	20-Sep-16 02-Oct-16 29-Jul-16 A 06-Sep-16 12-Nov-16 25-Nov-16 27-Sep-16	04-Nov-16 16-Nov-16 05-Sep-16 15-Sep-16 24-Nov-16 30-Nov-16 15-Oct-16	-159 -166 -166 -166 -166 -166 -131
MVB Substr MVB Substr SII11250 SII11252 SII11254 SII11260 SII11260 SII11260 SII11260 SII11260 SII11260 SII11260 SII11260 SII11300 SII11420 SII11980 SII12240	ucture - ELS & Structural Works for Portion A ucture - Structural Works for Portion A Sec II - MVB A : Remove strut S1 Sec II - MVB A : Remove bulkhead at east Sec II - MVB A : Remove bulkhead at west Sec II - MVB A : Construct Bay 14- B2M/F wall Sec II - MVB A : Construct Bay 14- B2M/F OHVD Sec II - MVB A : Construct Bay 14a - B2M/F OHVD Sec II - MVB A : Construct Bay 14a - B2M/F Wall (adjacent to bulkhead) Sec II - MVB A : Construct Bay 15a - B2M/F OHVD (adjacent to bulkhead) Sec II - MVB A : Construct Bay 16 - Wall btw OHVD and Roof) Sec II - MVB A : Construct Bay 17 - Roof Slab	46 46 6 10 13 6 19 17	20-Sep-16 02-Oct-16 29-Jul-16 A 06-Sep-16 12-Nov-16 25-Nov-16 27-Sep-16 16-Oct-16	04-Nov-16 16-Nov-16 05-Sep-16 15-Sep-16 24-Nov-16 30-Nov-16 15-Oct-16 01-Nov-16	-159 -166 -166 -166 -166 -131 -127
MVB Substr MVB Substr SII11250 SII11254 SII11264 SII11260 SII11300 SII11420 SII11980	ucture - ELS & Structural Works for Portion A ucture - Structural Works for Portion A Sec II - MVB A : Remove strut S1 Sec II - MVB A : Remove bulkhead at east Sec II - MVB A : Remove bulkhead at west Sec II - MVB A : Remove bulkhead at west Sec II - MVB A : Construct Bay 14- B2M/F wall Sec II - MVB A : Construct Bay 15 - B2M/F OHVD Sec II - MVB A : Construct Bay 15 - B2M/F Wall (adjacent to bulkhead) Sec II - MVB A : Construct Bay 15a - B2M/F OHVD (adjacent to bulkhead) Sec II - MVB A : Construct Bay 15a - B2M/F OHVD (adjacent to bulkhead) Sec II - MVB A : Construct Bay 15a - B2M/F OHVD (adjacent to bulkhead) Sec II - MVB A : Construct Bay 15a - B2M/F OHVD (adjacent to bulkhead)	46 46 6 10 13 6 19	20-Sep-16 02-Oct-16 29-Jul-16 A 06-Sep-16 12-Nov-16 25-Nov-16 27-Sep-16	04-Nov-16 16-Nov-16 05-Sep-16 15-Sep-16 24-Nov-16 30-Nov-16 15-Oct-16	-159 -166 -166 -166 -166 -166 -131
MVB Substr MVB Substr SII11250 SII11252 SII11254 SII11260 SII11260 SII11260 SII11260 SII11260 SII11260 SII11260 SII11260 SII11300 SII11420 SII11980 SII122140	ucture - ELS & Structural Works for Portion A ucture - Structural Works for Portion A Sec II - MVB A : Remove strut S1 Sec II - MVB A : Remove bulkhead at east Sec II - MVB A : Remove bulkhead at west Sec II - MVB A : Construct Bay 14- B2M/F wall Sec II - MVB A : Construct Bay 14- B2M/F OHVD Sec II - MVB A : Construct Bay 14a - B2M/F OHVD Sec II - MVB A : Construct Bay 14a - B2M/F Wall (adjacent to bulkhead) Sec II - MVB A : Construct Bay 15a - B2M/F OHVD (adjacent to bulkhead) Sec II - MVB A : Construct Bay 16 - Wall btw OHVD and Roof) Sec II - MVB A : Construct Bay 17 - Roof Slab	46 46 6 10 13 6 19 17	20-Sep-16 02-Oct-16 29-Jul-16 A 06-Sep-16 12-Nov-16 25-Nov-16 27-Sep-16 16-Oct-16	04-Nov-16 16-Nov-16 05-Sep-16 15-Sep-16 24-Nov-16 30-Nov-16 15-Oct-16 01-Nov-16	-159 -166 -166 -166 -166 -131 -127
WVB Substr MVB Substr SII11250 SII11252 SII11254 SII11260 SII11260 SII11260 SII11260 SII11260 SII11260 SII11260 SII11300 SII11420 SII11960 SII12140 SII12240	ucture - ELS & Structural Works for Portion A ucture - Structural Works for Portion A Sec II - MVB A : Remove strut S1 Sec II - MVB A : Remove bulkhead at east Sec II - MVB A : Remove bulkhead at west Sec II - MVB A : Remove bulkhead at west Sec II - MVB A : Construct Bay 14- B2M/F wall Sec II - MVB A : Construct Bay 15 - B2M/F OHVD Sec II - MVB A : Construct Bay 15 - B2M/F Wall (adjacent to bulkhead) Sec II - MVB A : Construct Bay 15a - B2M/F OHVD (adjacent to bulkhead) Sec II - MVB A : Construct Bay 15a - B2M/F OHVD (adjacent to bulkhead) Sec II - MVB A : Construct Bay 16 - Wall btw OHVD and Roof) Sec II - MVB A : Construct Bay 17 - Roof Slab Sec II - MVB A : Construct Bay 18 - Roof Slab Sec II - MVB A : Construct Bay 18 - Roof Slab Sec II - MVB A : Construct Bay 18 - Roof Slab	46 46 6 10 13 6 19 17 21	20-Sep-16 02-Oct-16 29-Jul-16 A 06-Sep-16 12-Nov-16 25-Nov-16 27-Sep-16 16-Oct-16 16-Oct-16	04-Nov-16 16-Nov-16 05-Sep-16 15-Sep-16 24-Nov-16 30-Nov-16 15-Oct-16 01-Nov-16 05-Nov-16	-159 -166 -166 -166 -166 -166 -131 -127 -131
MVB Substr MVB Substr SII11250 SII11252 SII11254 SII11260 SII11260 SII11260 SII11260 SII11260 SII11260 SII11260 SII11300 SII11420 SII11960 SII12140 SII12240 SII12340	ucture - ELS & Structural Works for Portion A ucture - Structural Works for Portion A Sec II - MVB A : Remove strut S1 Sec II - MVB A : Remove bulkhead at east Sec II - MVB A : Remove bulkhead at west Sec II - MVB A : Remove bulkhead at west Sec II - MVB A : Construct Bay 14- B2M/F wall Sec II - MVB A : Construct Bay 15 - B2M/F OHVD Sec II - MVB A : Construct Bay 14a - B2M/F wall (adjacent to bulkhead) Sec II - MVB A : Construct Bay 15a - B2M/F OHVD (adjacent to bulkhead) Sec II - MVB A : Construct Bay 15a - B2M/F OHVD (adjacent to bulkhead) Sec II - MVB A : Construct Bay 15a - B2M/F OHVD (adjacent to bulkhead) Sec II - MVB A : Construct Bay 15a - B2M/F OHVD (adjacent to bulkhead) Sec II - MVB A : Construct Bay 15a - B2M/F OHVD Sec II - MVB A : Construct Bay 17a - Roof Slab Sec II - MVB A : Construct Bay 17 - Roof Slab Sec II - MVB A : Construct Bay 18a - Roof Slab Sec II - MVB A : Construct Bay 16a, 17a & 18a - Wall & Slab (Adjacent to bulkhead)	46 46 6 10 13 6 19 17 21	20-Sep-16 02-Oct-16 29-Jul-16 A 06-Sep-16 12-Nov-16 25-Nov-16 27-Sep-16 16-Oct-16 16-Oct-16	04-Nov-16 16-Nov-16 05-Sep-16 15-Sep-16 24-Nov-16 30-Nov-16 15-Oct-16 01-Nov-16 05-Nov-16	-159 -166 -166 -166 -166 -166 -131 -127 -131
WVB Substr MVB Substr SIII1250 SIII1252 SIII1252 SIII1254 SIII1260 SIII1260 SIII1260 SIII1260 SIII1260 SIII1260 SIII1260 SIII1980 SII12160 SII12340 SII12340 SII12340 SII11320	ucture - ELS & Structural Works for Portion A ucture - Structural Works for Portion A Sec II - MVB A : Remove strut S1 Sec II - MVB A : Remove bulkhead at east Sec II - MVB A : Remove bulkhead at west Sec II - MVB A : Construct Bay 14- B2M/F wall Sec II - MVB A : Construct Bay 15 - B2M/F OHVD Sec II - MVB A : Construct Bay 15 - B2M/F OHVD Sec II - MVB A : Construct Bay 15 - B2M/F OHVD Sec II - MVB A : Construct Bay 15a - B2M/F OHVD (adjacent to bulkhead) Sec II - MVB A : Construct Bay 15a - B2M/F OHVD (adjacent to bulkhead) Sec II - MVB A : Construct Bay 17a - B2M/F OHVD (adjacent to bulkhead) Sec II - MVB A : Construct Bay 17a - Roof Slab Sec II - MVB A : Construct Bay 17 - Roof Slab Sec II - MVB A : Construct Bay 18 - Roof Slab Sec II - MVB A : Construct Bay 16a, 17a & 18a - Wall & Slab (Adjacent to bulkhead)	46 46 6 10 13 6 19 17 21	20-Sep-16 02-Oct-16 29-Jul-16 A 06-Sep-16 12-Nov-16 25-Nov-16 27-Sep-16 16-Oct-16 16-Oct-16 01-Dec-16	04-Nov-16 16-Nov-16 05-Sep-16 24-Nov-16 30-Nov-16 15-Oct-16 01-Nov-16 05-Nov-16 10-Dec-16	-159 -166 -166 -166 -166 -131 -127 -131 -166
MVB Substr MVB Substr SII11250 SII11252 SII11254 SII11254 SII11254 SII11260 SII11260 SII11260 SII11260 SII11260 SII11420 SII11960 SII12140 SII12240 SII12340 SII12340 MVB Substr SII11320	ucture - ELS & Structural Works for Portion A ucture - Structural Works for Portion A Sec II - MVB A : Remove strut S1 Sec II - MVB A : Remove bulkhead at east Sec II - MVB A : Remove bulkhead at west Sec II - MVB A : Remove bulkhead at west Sec II - MVB A : Construct Bay 14- B2M/F wall Sec II - MVB A : Construct Bay 15 - B2M/F OHVD Sec II - MVB A : Construct Bay 14a - B2M/F wall (adjacent to bulkhead) Sec II - MVB A : Construct Bay 15a - B2M/F OHVD (adjacent to bulkhead) Sec II - MVB A : Construct Bay 16 - Wall btw OHVD and Roof) Sec II - MVB A : Construct Bay 17 - Roof Slab Sec II - MVB A : Construct Bay 18a - Roof Slab Sec II - MVB A : Construct Bay 18a - Nail & Slab (Adjacent to bulkhead) ucture - Other Works for Portion A Sec II - MVB A : Construct Bay 16a, 17a & 18a - Wall & Slab (Adjacent to bulkhead)	46 46 6 10 13 6 19 17 21	20-Sep-16 02-Oct-16 29-Jul-16 A 06-Sep-16 12-Nov-16 25-Nov-16 27-Sep-16 16-Oct-16 16-Oct-16 01-Dec-16	04-Nov-16 16-Nov-16 05-Sep-16 24-Nov-16 30-Nov-16 15-Oct-16 01-Nov-16 05-Nov-16 10-Dec-16	-159 -166 -166 -166 -166 -131 -127 -131 -166
WVB Substr MVB Substr SII11250 SII11252 SII11254 SII11254 SII11254 SII11260 SII11260 SII11260 SII11260 SII11260 SII11420 SII11960 SII12140 SII12240 SII12340 SII12340 MVB Substr SII11320	ucture - ELS & Structural Works for Portion A ucture - Structural Works for Portion A Sec II - MVB A : Remove strut S1 Sec II - MVB A : Remove bulkhead at east Sec II - MVB A : Remove bulkhead at west Sec II - MVB A : Construct Bay 14- B2M/F wall Sec II - MVB A : Construct Bay 15 - B2M/F OHVD Sec II - MVB A : Construct Bay 15 - B2M/F OHVD Sec II - MVB A : Construct Bay 15 - B2M/F OHVD Sec II - MVB A : Construct Bay 15a - B2M/F OHVD (adjacent to bulkhead) Sec II - MVB A : Construct Bay 15a - B2M/F OHVD (adjacent to bulkhead) Sec II - MVB A : Construct Bay 17a - B2M/F OHVD (adjacent to bulkhead) Sec II - MVB A : Construct Bay 17a - B2M/F OHVD (adjacent to bulkhead) Sec II - MVB A : Construct Bay 17 - Roof Slab Sec II - MVB A : Construct Bay 18a, 17a & 18a - Wall & Slab (Adjacent to bulkhead) Sec II - MVB A : Construct Bay 16a, 17a & 18a - Wall & Slab (Adjacent to bulkhead) Sec II - MVB A : Remove Strut & flasework Sec II - MVB A : Remove Strut & flasework	46 46 6 10 13 6 19 17 21	20-Sep-16 02-Oct-16 29-Jul-16 A 06-Sep-16 12-Nov-16 25-Nov-16 27-Sep-16 16-Oct-16 16-Oct-16 01-Dec-16	04-Nov-16 16-Nov-16 05-Sep-16 24-Nov-16 30-Nov-16 15-Oct-16 01-Nov-16 05-Nov-16 10-Dec-16	-159 -166 -166 -166 -166 -131 -127 -131 -166

CEDD Contract No. HK/2012/08

Date Revis Current Milestone \diamondsuit Data Date: 31-Aug-16 8 Actual Work 31-Aug-16 3-Months Rolling Programme for Non-CRIII Area (Sep 2016-Nov 2016) Critical Remaining Work Remaining Work (Ref. to Revised Works Programme (Rev. 8)) Remaining Level of Effort

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			Dec	2017 Jan
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CONC.						CEDD Contract No. HK/2012/08 Wan Chai Development Phase II Central - Wan Chai Bypass at Wan Chai West	Page : 2 / 9
y ID	Activity Name	Remaining Dur	Early Start	Early Finish	Total Float	2016 Sep Oct Nov	Dec
SII11940	Sec II - MVB B: Remove Strut SL1 & Concrete Backing	8	28-Sep-16	05-Oct-16	-103		500
SII12080	Sec II - MVB B: Saw cut southern diaphragm wall	8	06-Oct-16	13-Oct-16	-103		
SII12360	Sec II - MVB B: Construct Bay M - B1/F Wall	26	14-Oct-16	08-Nov-16	-103		
SII12420	Sec II - MVB B: Construct Bay M - B1/F Top Slab	8	09-Nov-16	16-Nov-16	-103		
MVB Substruct	ure - Other Works for Portion B						
SII12100	Sec III - MVB B: remove strut and flasework	12	17-Nov-16	30-Nov-16	-85		
	Sec II - MVB B: seal up temp access openings	12			-103		
		12	01-Dec-16	12-Dec-16	-105		
	ture - Diaphragm Wall for Portion C						
	pile Installation						
SII10670	Sec II - MVB C - sheetpile wall installation	5	13-Aug-16 A	04-Sep-16	-112		
MVB Substruct	ture - ELS & Structural Works for Portion C						
MVB Substruct	ture - ELS for Portion C						
SII12020	Sec II - MVB C: Excavation down to +1.7mPD	6	11-Sep-16	16-Sep-16	-112		
SII12040	Sec II - MVB C : Install Strut S1	5	17-Sep-16	21-Sep-16	-112		
SII12060	Sec II - MVB C : Excavation down to formation	7	22-Sep-16	28-Sep-16	-112		
SII12180	(-1.8mPD/-3.0mPD) Sec II - MVB C : Cast Blinding layer & pile head treatment	8	29-Sep-16	06-Oct-16	-112		
SII12380	Sec III - MVB C : Remove bulhead wall between MVB	20	14-Oct-16	02-Nov-16	-112		
SII12400	plant room and Zone CW Sec III - MVB C : Remove bulhead wall between MVB	20	03-Nov-16	22-Nov-16	-112		
MVB Substruct	plant room and MVB south ure - Structural Works for Portion C						
	Sec II - MVB C : Construct Slab B1/F	7	07-Oct-16	13-Oct-16	-112		
	Sec II - MVB C : Remove Strut S1	3	23-Nov-16	25-Nov-16	-112		
	Sec II - MVB C : Construct Wall of B1/F	9	26-Nov-16	04-Dec-16	-112		
	Sec II - MVB C : Construct Floor Slab of G/F	5	05-Dec-16	09-Dec-16	-112		
	ure - Other Works for Portion C						
SII12280	Sec II - MVB C : Remove all struts and Falsework	6	10-Dec-16	15-Dec-16	-112		
SII12300	Sec II - MVB C : seal up temp access openings	12	10-Dec-16	21-Dec-16	-112		
Section II A - C	WB Tunnel & Slip Road Structures and Facilities						
CWB A2(2)							
CWB A2 (2) - E	LS & Tunnel Structure						
CWB A2 - Tunr	nel Structure						
SIIA11700	Sec II A - CWB A2(2): base, wall, OHVD & roof (bay 1	15	11-Jun-16 A	14-Sep-16	-97		
SIIA11750	-Adjancent to A1) Sec II A - CWB A2(2): base, wall, OHVD & roof (bay 2)	4	12-May-16 A	03-Sep-16	-93		
CWB A2 - Othe	er Works	 					
SIIA12530	Sec II A - CWB A2(2) : waterproofing and backfill to	45	15-Sep-16	29-Oct-16	-92		
	+4.0mPD ssociated Facilities						
	Sec II A - CWB A2(2): Civil Provisions - lay screeding	7	08-Sep-16	14-Sep-16	-97		
	Sec II A - CWB A2(2): Civil Provisions - ray screening Sec II A - CWB A2(2): Civil Provisions - cast cable trough	8			-97		
		0	15-Sep-16	22-Sep-16	-97		
CWB B & A2(1)							
	Tunnel Structure						
CWB B - ELS							

	CHINA STATE - LEA	- 利 望 DER JOIN	主 聯 営 NT VENTUR	É.		CEDD Contract No. HK/2012/08 Wan Chai Development Phase II Central - Wan Chai Bypass at Wan Chai West	Page : 3 / 9
	Activity Name	Remaining Dur	Early Start	Early Finish	Total Float	2016 Sep Oct Nov	Dec
BB - Insid	e Concrete Plug						
	Sec II A - CWB B Inside Concrete Plug: Cut and remove	18	23-Aug-16 A	17-Sep-16	-175		
	the excess blinding layer Sec II A - CWB B Inside Concrete Plug: Saw Cut the Base	18	27-Aug-16 A	21-Sep-16	-144		
	Slab of C4 Unit Sec II A - CWB B: Demolish cocnrete plug (near C4 unit)	25	13-Oct-16	06-Nov-16	-180		
	de Concrete Plug	20	10 000 10		100		
	-	_					
	Sec II A - CWB B Outside Concrete Plug: Tunnel Formation Excavation	5	29-Aug-16 A	04-Sep-16	-180		
	Sec II A - CWB B Outside Concrete Plug: Vertical Blinding	1	05-Sep-16	05-Sep-16	-180		
SIIA 15260	Sec II A - CWB B Outside Concrete Plug: Remove struts & Sheetpile	17	06-Sep-16	22-Sep-16	-180		
CWB A2(1) & B	- Tunnel Structure						
SIIA13570	Sec II A - CWB A2(1): Construct Bay 4 - Wall (remaining)	12	25-Oct-16	05-Nov-16	-186		
SIIA13572	Sec II A - CWB A2(1): Construct Bay 4 - OHVD	16	06-Nov-16	21-Nov-16	-186		
SIIA13574	Sec II A - CWB A2(1): Construct Bay 4 - Top Slab	14	22-Nov-16	05-Dec-16	-186		
SIIA13580	Sec II A - CWB B: Construct Bay 5 - Exhaust Duct Base	8	01-Sep-16*	08-Sep-16	0		
	Slab (South) Sec II A - CWB B: Construct Bay 5 - Exhaust Duct Wall	8	17-Sep-16	24-Sep-16	-190		
	Sec II A - CWB B: Construct Bay 6 - Base Slab	14	25-Sep-16	08-Oct-16	-190		
	·						
	Sec II A - CWB B: Construct Bay 6 - Wall	14	25-Oct-16	07-Nov-16	-181		
SIIA13620	Sec II A - CWB B: Construct Bay 6 - OHVD	13	11-Nov-16	23-Nov-16	-184		
SIIA13630	Sec II A - CWB B: Construct Bay 6 - Roof Slab	12	27-Nov-16	08-Dec-16	-187		
SIIA13640	Sec II A - CWB B: Construct Bay 7a - Base Slab	18	25-Sep-16	12-Oct-16	-190		
SIIA13645	Sec II A - CWB B: Remove Strut S2 & S3 and concrete	9	16-Oct-16	24-Oct-16	-190		
SIIA13650	packing (for Bay 4, 6 & 7a) Sec II A - CWB B: Construct Bay 7a - Wall	17	25-Oct-16	10-Nov-16	-190		
SIIA13660	Sec II A - CWB B: Construct Bay 7a - OHVD	16	11-Nov-16	26-Nov-16	-190		
SIIA13680	Sec II A - CWB B: Construct Bay 7a - Top Slab	15	27-Nov-16	11-Dec-16	-190		
	Sec II A - CWB B: Construct Bay 7b - Base Slab	11	23-Sep-16	03-Oct-16	-180		
	Sec II A - CWB B: Remove Strut S2 & S3 (for Bay 7b)	6	07-Oct-16	12-Oct-16	-180		
	Sec II A - CWB B: Construct Bay 7b - Wall	11	07-Nov-16	17-Nov-16	-180		
SIIA13900	Sec II A - CWB B: Construct Bay 7b - OHVD	10	18-Nov-16	27-Nov-16	-180		
SIIA13920	Sec II A - CWB B: Construct Bay 7b - Top Slab	10	28-Nov-16	07-Dec-16	-180		
CWB A2(1) & B	- Other Works						
WB A2(1) & B	- Associated Facilities						
5IIA14460	Sec II A - CWB A2(1): Civil Provisions - lay screeding	7	06-Dec-16	12-Dec-16	-186		
SIIA14480	Sec II A - CWB A2(1): Civil Provisions - cast cable trough	8	13-Dec-16	20-Dec-16	-186		
	Sec II A - CWB B: Civil Provisions - lay screeding	6	12-Dec-16	17-Dec-16	-190		
WB C (W)	, so comy	-			150		
	& Tunnel Structure						
	& Tunnel Structure						
CWB C(W) - EL							
CWB C(W) - EL	LS Inside Concrete Plug						
	Sec II A - CWB CW inside Concret Plug: cut and remove 2m strip opening along bulkhead	6	31-Aug-16	05-Sep-16	-186		
SIIA 12230	Sec II A - CWB CW inside Concret Plug: cut and remove base slab of C4 unit	21	06-Sep-16	26-Sep-16	-186		
	Sec II A - CWB CW inside Concret Plug: cut and remove	9	25-Aug-16 A	08-Sep-16	874		

	CHINA STATE - LEA	- 利 逆 ADER JOI	主聯 営 NT VENTUR	E		CEDD Contract No. HK/2012/08 Wan Chai Development Phase II Central - Wan Chai Bypass at Wan Chai West	Page : 4 / 9
	Activity Name	Remaining Dur	Early Start	Early Finish	Total Float	2016 Sep Oct Nov	Dec
	Sec II A - CWB CW inside Concret Plug: remove concrete bulkhead	20	19-Oct-16	07-Nov-16	-186		
	LS Outide Concrete Plug						
	Sec II A - CWB CW outside Concrete Plug: Remove struts S3	4	30-Aug-16 A	03-Sep-16	-155		
SIIA 13120	Sec II A - CWB CW outside Concrete Plug: Install	3	04-Sep-16	06-Sep-16	-155		
SIIA 13140	transverse strut Sec II A - CWB CW outside Concrete Plug: Remove strut	11	07-Sep-16	17-Sep-16	-155		
SIIA 13160	S1 & S2 Sec II A - Sec II A - CWB CW outside Concrete Plug:	4	25-Aug-16 A	03-Sep-16	-185		
	Tunnel formation excavation Sec II A - CWB CW outside Concrete Plug: Exhaust duct	5	05-Sep-16	09-Sep-16	-185		
	formation excavation Sec II A - CWB CW outside Concrete Plug: blinding layer	16	10-Sep-16	25-Sep-16	-185		
	and remove diagonal struts & sheetpile nnel Structure						
		10	27 Can 16	08 0+10	100		
	Sec II A - CWB CW: Construct Bay 1 - Base Slab	12	27-Sep-16	08-Oct-16	-186		
	Sec II A - CWB CW: Remove Struts S2 & S3	6	13-Oct-16	18-Oct-16	-186		
	Sec II A - CWB CW: Construct Bay 1 - Wall	8	08-Nov-16	15-Nov-16	-186		
IIA12320	Sec II A - CWB CW: Construct Bay 1 - OHVD	10	18-Nov-16	27-Nov-16	-186		
	Sec II A - CWB CW: Construct Bay 1 - Top Slab	10	28-Nov-16	07-Dec-16	-186		
	Sec II A - CWB CW: Construct Bay 2b - Exhaust duct base slab	9	17-Sep-16	25-Sep-16	-165		
IIA12400	Sec II A - CWB CW: Construct Bay 2b - Exhaust duct wall	8	26-Sep-16	03-Oct-16	-165		
IA12420	Sec II A - CWB CW: Construct Bay 2b - Tunnel base slab	13	04-Oct-16	16-Oct-16	-165		
IIA12460	Sec II A - CWB CW: Construct Bay 2b - B1/F slab	8	27-Oct-16	03-Nov-16	-136		
IIA12480	Sec II A - CWB CW: Construct Bay 2b - B1/F wall	9	04-Nov-16	12-Nov-16	-136		
IIA12520	Sec II A - CWB CW: Construct Bay 2b - B1/F roof slab	11	13-Nov-16	23-Nov-16	-136		
IIA12640	Sec II A - CWB CW: Construct Bay 2a & 2b - Wall	8	17-Oct-16	24-Oct-16	-165		
IIA12700	Sec II A - CWB CW: Construct Bay 2a & 2b - OHVD	10	27-Oct-16	05-Nov-16	-165		
IIA12720	Sec II A - CWB CW: Construct Bay 2a & 2b - Roof Slab	11	06-Nov-16	16-Nov-16	-165		
VB C(W) - Otl							
	Sec II A - CWB CW: Cut Down Dwall Head	21	08-Dec-16	28-Dec-16	-142		
	Sec II A - CWB CW: backfill to +4.0mPD	52			-150		
		JZ	08-Dec-16	28-Jan-17	-120		
	ociated Facilities						
	Sec II A - CWB CW: Civil Provisions - lay screeding	6	08-Dec-16	13-Dec-16	-186		
	Sec II A - CWB CW: Civil Provisions - cast cable trough	7	14-Dec-16	20-Dec-16	-186		
B C (E)							
BC(E) - ELS	& Tunnel Structure						
VB C(E) - ELS							
WB C(E) - ELS	S - Bay 2 & 3						
SIIA15600	Sec II A - CWB CE: Demolish Bulkhead at C1 Interface	19	31-Aug-16	18-Sep-16	-166		
VB C(E) - Tun	inel Structure						
IIA13255	Sec II A - CWB CE: Construct Bay 1 - Wall	46	26-Aug-16 A	15-Oct-16	-164		
IIA13275	Sec II A - CWB CE: Construct Bay 1 - OHVD	14	18-Oct-16	31-Oct-16	-164		
IIA13295	Sec II A - CWB CE: Construct Bay 1 - Roof Slab	13	01-Nov-16	13-Nov-16	-164		
IIA13315	Sec II A - CWB CE: Construct Bay 2 - Wall	31	30-Aug-16 A	30-Sep-16	-151		
1112225	Sec II A - CWB CE: Construct Bay 2 - OHVD	14	03-Oct-16	16-Oct-16	-151		

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	Activity Name	Remaining Dur	Early Start	Early Finish	Total Float	Son	20 ⁻	16 Nov.
13355	Sec II A - CWB CE: Construct Bay 2 - Roof Slab	15	17-Oct-16	31-Oct-16	-151	Sep	Oct	Nov
13375	Sec II A - CWB CE: Construct Bay 3 - Base Slab	8	19-Sep-16	26-Sep-16	-166			
13395	Sec II A - CWB CE: Remove Strut S2 & S3 (for Bay 3)	5	27-Sep-16	01-Oct-16	-166			
13415		22		23-Oct-16	-166			
	Sec II A - CWB CE: Construct Bay 3 - Wall		02-Oct-16					
13435	Sec II A - CWB CE: Construct Bay 3 - OHVD	11	26-Oct-16	05-Nov-16	-166			
13455	Sec II A - CWB CE: Construct Bay 3 - Roof Slab	10	06-Nov-16	15-Nov-16	-166			
C(E) - Oti								
13300	Sec II A - CWB CE: Dismantle Scaffolding	24	16-Nov-16	09-Dec-16	-123			
13320	Sec II A - CWB CE: Cut Down Dwall Head	45	16-Nov-16	30-Dec-16	-144			
13325	Sec II A - CWB CE: backfill to +4.0mPD	47	16-Nov-16	01-Jan-17	-146			
C(E) - Ass	ociated Facilities							
.4222	Sec II A - CWB CE: Civil Provisions - lay screeding	7	16-Nov-16	22-Nov-16	-166			
4280	Sec II A - CWB CE: Civil Provisions - cast cable trough	8	23-Nov-16	30-Nov-16	-166			
	ust Duct							
	st Duct Temp Work & ELS							
.2900	Sec II A - Exhaust Duct at Slip Rd3: Excavation & Shoring - Bay 1	20	19-Sep-16*	08-Oct-16	-165			
2910	Sec II A - Exhaust Duct at Slip Rd3: Excavation & Shoring - Bay 2	15	19-Sep-16	03-Oct-16	-150			
.2920	Sec II A - Exhaust Duct at Slip Rd3: Excavation & Shoring - Bay 3	10	07-Oct-16	16-Oct-16	-150			
C - Exhau	st Duct Structural Work							
.2938	Sec II A - Exhaust Duct at Slip Rd3: Construt Bay 1 - base	5	09-Oct-16	13-Oct-16	-165		_	
2939	slab Sec II A - Exhaust Duct at Slip Rd 3: Demolish bulkhead	21	19-Oct-16	08-Nov-16	-165			
.2940	between MVB south and exhaust duct Sec II A - Exhaust Duct at Slip Rd3: Construt Bay 1 - wall	13	09-Nov-16	21-Nov-16	-165			
.3480	Sec II A - Exhaust Duct at Slip Rd3: Construt Bay 1 - roof	8	22-Nov-16	29-Nov-16	-165			•
.3520	slab Sec II A - Exhaust Duct at Slip Rd3: Construt Bay 2 - base	5	04-Oct-16	08-Oct-16	-122			
.3540	slab Sec II A - Exhaust Duct at Slip Rd3: Construt Bay 2 - wall	9	09-Oct-16	17-Oct-16	-122			
.3560	& roof slab Sec II A - Exhaust Duct at Slip Rd3: Construt Bay 3 - base	5						
	slab		17-Oct-16	21-Oct-16	-150			
.3575	Sec II A - Exhust Duct at Slaip Rd 3: Demolish bulkhead at C1	15	22-Oct-16	05-Nov-16	-150			
.3960	Sec II A - Exhaust Duct at Slip Rd3: Construt Bay 3 - wall & roof slab	9	06-Nov-16	14-Nov-16	-150			
C - Exhau	st Duct Others							
12950	Sec II A - Exhaust Duct at Slip Rd3: curing and dismantle formwork / falsework	12	15-Nov-16	26-Nov-16	-93			
12952	Sec II A - Exhaust Duct at Slip Rd3: Backfilling	15	18-Nov-16	02-Dec-16	-93			
) - Slip F	Road 1							
<mark>) - Slip R</mark>	oad 1 - ELS & Tunnel Structure							
D - Slip F	Road 1 - ELS							
D - SR1	- ELS - Bay 1 & 2							
	Sec II A - CWB SR1 Concrete Plug: Saw cut to formation	26	31-Aug-16	25-Sep-16	-172			
	Sec II A - CWB SR1 Concrete Plug: Remove concrete	26	26-Sep-16	23 Sep 10	-172			
	bulkhead							
	Sec II A - CWB SR1 Bay 1&2: 2nd layer excavation & strutting	9	24-Aug-16 A	08-Sep-16	-142			
4 12642	Sec II A - CWB SR1 Bay 1&2: Formation excavation	9	09-Sep-16	17-Sep-16	-142			

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ま し E A LEADER 中國 CHINA ST	建築-利義	主聯營	춬 E		CEDD Contract No. HK/2012/08 Wan Chai Development Phase II Central - Wan Chai Bypass at Wan Chai West	Page : 6 / 9
Activity Name	Remaining Dur	Early Start	Early Finish	Total Float	2016 Sep Oct Nov	Dec
IIA 12590 Sec II A - CWB SR1 Bay 3: Blinding Laye	r 3	31-Aug-16	02-Sep-16	-151		
NB D - Slip Road 1 - Tunnel Structure						
SIIA13060 Sec II A - CWB SR1: Construct Bay 1 - B	ase Slab 13	22-Oct-16	03-Nov-16	-172		
SIIA13070 Sec II A - CWB SR1: Remove Strut S1 &	S2 5	07-Nov-16	11-Nov-16	-172		
SIIA13080 Sec II A - CWB SR1: Construct Bay 1 - R	pof Slab 13	12-Nov-16	24-Nov-16	-172		
SIIA13220 Sec II A - CWB SR1: Construct Bay 2 - B	ase Slab 15	18-Sep-16	02-Oct-16	-142		
SIIA13230 Sec II - CWB SR1: Remove Strut S1 & S		06-Oct-16	11-Oct-16	-118		
SIIA13240 Sec II A - CWB SR1: Construct Bay 2 - R		12-Oct-16	27-Oct-16	-144		
SIIA13260 Sec II A - CWB SR1: Construct Bay 3 - T		03-Sep-16	09-Sep-16	-151		
	-	-	-			
SIIA13280 Sec II A - CWB SR1: Construct Bay 3 - T		18-Sep-16	24-Sep-16	-151		
SIIA13380 Sec II A - CWB SR1: Construct Bay 3 - B		25-Sep-16	08-Oct-16	-151		
SIIA13440 Sec II A - CWB SR1: Construct Bay 3 - R		17-Oct-16	03-Nov-16	-151		
SIIA13460 Sec II A - CWB SR1: Construct Bay 4 - R	bof Slab 18	17-Oct-16	03-Nov-16	-151		
SIIA13940 Sec II A - CWB SR1: Cut Down Dwall He	ad 55	25-Nov-16	18-Jan-17	-120		
WB D - Associated Facilities						
IIA12580 Sec II A - CWB SR1: Civil Provisions - la	r screeding 7	25-Nov-16	01-Dec-16	-172		
IIA14000 Sec II A - CWB SR1: Civil Provisions - ca	st cable trough 8	29-Nov-16	06-Dec-16	-172		
WB D - Slip Road 1 - Trough / Retaining Wall						
WB D - Slip Road 1 - Trough/Retaining Wall Temp Wo	k & ELS					
SIIA12760 Sec II A - CWB SR1 Trough & RW: instal	sheetpile 13	05-Sep-16*	17-Sep-16	-157		
SIIA12780 Sec II A - CWB SR1 Trough & RW: Exca	vation & Shoring 23	18-Sep-16	10-Oct-16	-157		
WBD - Slip Road 1 - Trough/Retaining Wall Structure						
SIIA12800 Sec II A - CWB SR1 Trough & RW: Trou		11-Oct-16	22-Oct-16	-157		
1) SIIA13720 Sec II A - CWB SR1 Trough & RW: Trough		23-Oct-16	03-Nov-16	-157		
2)						
SIIA13740 Sec II A - CWB SR1 Trough & RW: Troug 3)	-	29-Oct-16	09-Nov-16	-157		
SIIA13760 Sec II A - CWB SR1 Trough & RW: const along top of Trough Structure		03-Nov-16	14-Nov-16	-157		
SIIA13780 Sec II A - CWB SR1 Trough & RW: insta	waling 7	15-Nov-16	21-Nov-16	-157		
SIIA13800 Sec II A - CWB SR1 Trough & RW: Retai (bay 1)	ning Walls RW3 12	25-Oct-16	05-Nov-16	-152		
SIIA13820 Sec II A - CWB SR1 Trough & RW: Retai (bay 2)	ning Walls RW3 12	05-Nov-16	16-Nov-16	-152		
SIIA13840 Sec II A - CWB SR1 Trough & RW: Retai (bay 3)	ning Walls RW3 12	25-Oct-16	05-Nov-16	-152		
SIIA13860 Sec II A - CWB SR1 Trough & RW: Retai	ning Walls RW4 12	05-Nov-16	16-Nov-16	-152		
(bay 1) WB D - Slip Road 1 - Trough/ Retaining Wall Other Wo	rks					
SIIA13865 Sec II A - CWB SR1: backfill to +4.0mPE	38	17-Nov-16	03-Jan-17	-111		
ction III A - Road A2, A4, A5, Area 11; Implement	2nd Stage ITA					
adwork & Utilities at A1						
IIIA10260 Sec III A - roadwork and utilities (Zone A	1) - Backfill to 42	31-Aug-16	21-Oct-16	-69		
pavement founding level IIA10280 Sec III A - roadwork and utilities (Zone A	-	09-Sep-16	31-Oct-16	-69		
drain & sub-soil drain	-	-				
IIIA10300 Sec III A - roadwork and utilities (Zone A watermain & Irrigation Mains	-	22-Sep-16	11-Nov-16	-69		
IIA10320 Sec III A - roadwork and utilities (Zone A	-	05-Oct-16	23-Nov-16	-69		
SIIIA10340 Sec III A - roadwork and utilities (Zone A	1) - HEC 42	15-Oct-16	02-Dec-16	-69		•

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1000 101 A - moder and statuting (2me A) - solution 40 5 (5 Ha - 6 (Act	stivity Name	Remaining Dur	Early Start	Early Finish	Total Float			
Number See TA A reader and utility (20x A) reader 4 2400 4 4 Number See TA A reader and utility (20x A) reader 4 2400 4 3	360 Seo	c III A - roadwork and utilities (Zone A1) - sub-base	42	25-Oct-16	12-Dec-16	-69	Sep	Oct	Nov
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Image in a concrete			42	05-Nov-16	23-Dec-16				
Lattings			42	02-Dec-16	23-Jan-17	-69			
BAD016 Soci III A: readourize of these (Size A) - foco types (A) - foco types (40	12-Dec-16	03-Feb-17	-69			
IAMAND Sec III A - mathewing utiline (Joce A) - shows inp 40 0.90-05-30 7.1-09-17 MARCA & UWING & AZ U	480 Sec	ec III A - roadwork and utilities (Zone A1) - lay footpath	45	17-Nov-16	11-Jan-17	-60			
Subseries 4 201 Unit 2010 Series 1 - Secondary and subsers (2m - 2) - semical line 90 100 - 100	500 See	ec III A - roadwork and utilities (Zone A1) - Road sign	40	03-Dec-16	21-Jan-17	-62			
parameter parameter parameter parameter parameter 1141000 Str. 1A. rondows, and utilities (Dore A.2) - trenth 40 0.5 00-10 7.4 1141000 Str. 1A. rondows, and utilities (Dore A.2) - trenth 40 0.5 00-10 7.4 1141000 Str. 1A. rondows and utilities (Dore A.2) - trenth 40 0.5 00-10 7.4 1141000 Str. 1A. rondows and utilities (Dore A.2) - trenth 40 0.5 00-10 7.4 1141000 Str. 1A. rondows and utilities (Dore A.2) - stock and and Utilities (Dore A.2) - stock and utilitie		-							
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dam R school at dam R dam R dam R dam R school at milling (20m A2) - frain 40 40-4000		-	40	20-Oct-16	05-Dec-16	-76			
waterina & Engine Name image	dra	ain & sub-soil drain							
Bill A - readwork and utilities (Zore A2) - 14fC 40 15 Mey-16 03 Men 12 74 Bill A - readwork and utilities (Zore A2) - sub-base 40 10 Abe-12 74 Bill A - readwork and utilities (Zore A2) - sub-base 40 10 Abe-12 74 Bill A - readwork and utilities (Zore A2) - stabeliae 40 10 Abe-12 74 Bill A - readwork and utilities (Zore A2) - stabeliae 50 13 Abe-12 74 Bill A - readwork and utilities (Zore A2) - stabeliae 50 13 Abe-16 14 Feb-17 74 Bill A - readwork and utilities (Zore A2) - stabeliae 40 60 Se CE-16 25 Abe-17 74 Bill A - readwork and utilities (Zore A2) - stabeliae 40 60 Se CE-16 25 Abe-17 74 Bill A - readwork and utilities (Zore A2) - stabeliae 50 14 Dec-16 14 Feb-17 74 Bill A - readwork and utilities (Zore A2) - stabeliae 50 14 Dec-16 17 Feb-17 741 Bill A - readwork and utilities (Zore A2) - stabeliae 50 14 Dec-16 17 Feb-17 740 Bill A - readwork and utilities (Zore D) - febri M 50 14 Dec-16 17 Feb-17 740 Bill A - readwork and utilities	wa	atermain & Irrigation Mains							
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SBIIA 10000 Sec III A - readverk and utilities (Zone A) - read kerb 40 01-Dec 14 19-Ban-17 7-6 SIIA LOYON Sec III A - readverk and utilities (Zone A) - fiexible 50 10-Dec 14 14+Feb-17 7-6 SIIA LOYON Sec III A - readverk and utilities (Zone A) - sec itual - readverk and utilities (Zone A) - sec itual - readverk and utilities (Zone A) - sec itual - readverk and utilities (Zone A) - sec itual - readverk and utilities (Zone A) - sec itual - readverk and utilities (Zone A) - sec itual - readverk and utilities (Zone A) - sec itual - readverk and utilities (Zone A) - sec itual - readverk and utilities (Zone A) - sec itual - readverk and utilities (Zone A) - sec itual - readverk and utilities (Zone D) - s		ec III A - roadwork and utilities (Zone A2) - HEC	40	15-Nov-16	03-Jan-17				
SILI A - readwork and utilities (Zone A) - fierbile 59 10 - 0ec-16 14 + Feb - 17 476 SILI A - readwork and utilities (Zone A) - roor (struct) 50 29 + Nor-16 26 - Sam - 17 474 Sili A - room over and utilities (Zone A) - roor (struct) 40 08 - Dec - 16 26 - Sam - 17 474 Sili A - room over and utilities (Zone A) - roor (struct) 40 10 - Dec - 16 11 - 474 Sili A - room over and utilities (Zone A) - roor (struct) 50 10 - Dec - 16 11 - 474 Sili A - room over and utilities (Zone A) - roor (struct) 50 10 - Dec - 16 11 - 474 Sili A - room over and utilities (Zone D) - backTII 0 50 10 - Dec - 16 11 - 476+ 17 -111 Sili A - room over and utilities (Zone D) - Sici M main 50 14 - Dec - 16 17 - Feb + 17 -100 Sili A - room over and utilities (Zone D) - Fesh 50 14 - Dec - 16 17 - Feb + 7 -100 Sili A - room over and utilities (Zone D) - Fesh 50 14 - Dec - 16 17 - Feb + 7 -100 Sili A - room over and utilities (Zone D) - Fesh 50 14 - Dec - 16 17 - Feb + 7 -100 Sili A - room over and utilities (Zone D) - Fesh 50	680 See	ec III A - roadwork and utilities (Zone A2) - sub-base	40	22-Nov-16	10-Jan-17	-76			
perment u-channel	700 See	ec III A - roadwork and utilities (Zone A2) - road kerb	40	01-Dec-16	19-Jan-17	-76			
Sinth 10 See, III A - radowich and sillines (20ne A2) - construct model and concrete S0 2.9 Alov: 16 0.4 Peb-12 6.88 Alov: 10 Sinth 100 See, III A - radowich and sillites (20ne A2) - save model and concrete 40 0.40 ecc: 16 26-3 alov: 17 -74 Sinth 100 See, III A - radowich and sillites (20ne A2) - save model and sillites (20ne A2) - save model and sillites (20ne D1) - face/III alove: 16 10-6e-16 10-6e-17 -74 Sinth 100 See, III A - radowich and sillites (20ne D1) - face/III alove: 16 11-76e-17 -111 Sinth 1100 See, III A - radowich and sillites (20ne D) - face/III alove: 16 11-76e-17 -111 Sinth 110 See, III A - radowich and sillites (20ne D) - face/III alove: 16 17-76e-17 -111 Sinth 1100 See, III A - radowich and sillites (20ne D) - face/III alove: 16 17-76e-17 -111 Sinth 1100 See, III A - radowich and sillites (20ne D) - face/III alove: 16 14-0e-16 17-76e-17 -111 Sinth 1101 See, III A - radowich and sillites (20ne D) - face/III alove: 16 14-0e-16 17-76e-17 -111 Sinth 1120 See, III A - radowich and sillites (20ne D) - face/III alove: 16 12-75e-16 16-16			50	10-Dec-16	14-Feb-17	-76			
BILL III. A - readvork and ublikes (Zam A2) - pave 40 08-Dec. 16 25-Ban - 12 74 SILL III. A - readvork and ublikes (Zam A2) - iay focguath 40 10-Dec. 16 02-Feb. 12 74 SILL III. A - readvork and ublikes (Zam A2) - iay focguath 40 10-Dec. 16 02-Feb. 12 74 SILL A - readvork and ublikes (Zam A2) - iay focguath 40 10-Dec. 16 02-Feb. 12 74 Sill A - readvork and ublikes (Zam A2) - iay focguath 50 10-Dec. 16 12-Feb. 17 711 Sill A - readvork and ublikes (Zam D) - fearm 50 14-Dec. 16 17-Feb. 17 111 Sill A - readvork and ublikes (Zam D) - fearm 50 14-Dec. 16 17-Feb. 17 110 Sill A - readvork and ublikes (Zam D) - fearm 50 14-Dec. 16 17-Feb. 17 110 Sill A - readvork and ublikes (Zam D) - fearm 50 14-Dec. 16 17-Feb. 17 110 Sill A - readvork and ublikes (Zam D) - fear 50 14-Dec. 16 17-Feb. 17 110 Sill A - readvork and ublikes (Zam D) - fear 50 14-Dec. 16 17-Feb. 17 110 Sill A - rea	740 See	ec III A - roadwork and utilities (Zone A2) - construct	50	29-Nov-16	02-Feb-17	-68			
SILIA A. Sec. III. A. roadwork and udilises (Zone A.2) - lay footpasts 40 10-Dec - 16 0.2-feb-17 7-fe Silication of the sub-sol dram and udilises (Zone D.) - backfill to 50 0.80-bce-16 11-Feb-17 1-11 Silication of the sub-sol dram and udilises (Zone D.) - backfill to 50 0.80-bce-16 17-Feb-17 1-11 Silication of sub-sol dram and udilises (Zone D.) - backfill to 50 14-Dec 16 17-Feb-17 1-11 Silication of sub-sol dram and udilises (Zone D.) - Fresh 50 14-Dec 16 17-Feb-17 1-11 Silication of sub-sol dram and udilises (Zone D.) - Fresh 50 14-Dec 16 17-Feb-17 1-10 Silication of sub-sol dram and udilises (Zone D.) - Fresh 50 14-Dec 16 17-Feb-17 1-10 Silication of sub-sol dram and udilises (Zone D.) - Fresh 50 14-Dec 16 17-Feb-17 1-10 Silication of sub-sol dram and udilises (Zone D.) - HEC 50 14-Dec 16 17-Feb-17 1-10 Silication of sub-sol dram and udilises (Zone D.) - HEC 50 14-Dec 16 17-Feb-17 1-00 Silication of sub-sol dram and udilises (Zone D.) - HEC 23 25-Sub-16 16-0 6-0 <	760 See	ec III A - roadwork and utilities (Zone A2) - pave	40	08-Dec-16	26-Jan-17	-74			
Beachwork & Uilliers at D See III A - roadwork and utilities (Zone D) - backfill to 1 So 0 08-0e-16 11-Feb-17 1-111 Sill TA - roadwork and utilities (Zone D) - storm watter So<0		•	40	10-Dec-16	02-Feb-17	-74			
SHI11100 See III A - roadwork and utilities (Zone D) - back/fill o So No Bo Dec - 16 17 Feb- 17 -111 SHIA1100 See III A - roadwork and utilities (Zone D) - stom water So 14 + Dec - 16 17 Feb- 17 -111 drain 8.ub-301 drain Subsol drain So 14 + Dec - 16 17 Feb- 17 -110 StIA11100 See III A - roadwork and utilities (Zone D) - fesch So 14 + Dec - 16 17 Feb- 17 -100 StIA11100 See III A - roadwork and utilities (Zone D) - fesch So 14 + Dec - 16 17 Feb- 17 -100 StIA11100 See III A - roadwork and utilities (Zone D) - fesch So 14 + Dec - 16 17 Feb- 17 -100 StIA11100 See III A - roadwork and utilities (Zone D) - fesch So 14 + Dec - 16 17 Feb- 17 -100 StIA11100 See III A - roadwork and utilities (Zone D) - fesch So 17 Feb- 17 -100 StIA1120 See III A - roadwork and utilities (Zone D) - fesch 25 -16 -6 6 Cull120 Culvert L- bay 8 - boschifi above box section 12 21 + Nor 16 03 - Dec - 16		-							
payment payment <t< td=""><td>190 Se</td><td>ec III A - roadwork and utilities (Zone D) - backfill to</td><td>50</td><td>08-Dec-16</td><td>11-Feb-17</td><td>-111</td><th></th><td></td><td></td></t<>	190 Se	ec III A - roadwork and utilities (Zone D) - backfill to	50	08-Dec-16	11-Feb-17	-111			
drain & sub-oil drain Income	pav	avement founding level							
watermain Bringhom Main Bringhom Mai	dra	ain & sub-soil drain							
Set II A - roadwork and utilities (Zone D) - HEC 50 14-Dec -16 17-Feb -17 -103 xx Culvert L = KRP-L - Bay 8 -103 xx Culvert L = KRP-L - Bay 8 25-50-16 66 Culvert L - bay 8 - construct pile cap 23 25-50-16 18-Oct-16 66 Culvert L - bay 8 - construct paise 26 23-Sep-16 18-Oct-16 66 Culurat L - Bay 8 - construct wall 21 19-Oct-16 08-Nov-16 66 Culurat L - Bay 8 - construct wall 21 19-Oct-16 08-Nov-16 66 Culurat L - Bay 8 - construct wall 11 09-Nov-16 16 6 Culurat L - Bay 8 - construct wall 12 12-Nov-16 03-Dec-16 6 Culurat L - Bay 8 - construct wall 12 12-Nov-16 03-Dec-16 5 Culurat L - Bay 8 - backfill above box section 12 12-Nov-16 03-Dec-16 5 Culurat L - Bay 8 - backfill above box section 12 12-Nov-16 03-Dec-16 5 Culurat L - Bay 8 - backfill above box section 12 21-Nov-16 03-Dec-16 5			50	14-Dec-16	17-Feb-17	-107			
x Culvert Ll & FRP-L - Bay 8 x Subscription	120 See	ec III A - roadwork and utilities (Zone D) - Gas main	50	14-Dec-16	17-Feb-17	-103			
Culvert L - Bay 8 Structure 23 25-Jul-16 A 22-Sep-16 6 Cull 1320 Culvert L - bay 8 - construct paie cap 26 23-Sep-16 18 6 Cull 1322 Culvert L - Bay 8 - construct wall 26 23-Sep-16 08 6 Cull 1320 Culvert L - Bay 8 - construct wall 21 19-Oct-16 08-Nov-16 6 Cull 1322 Culvert L - Bay 8 - construct paiab 11 09-Nov-16 19-Nov-16 6 Cull 1320 Culvert L - bay 8 - backfill above box section 12 21-Nov-16 03-Dec-16 6 Cull 1320 Culvert L - bay 8 - backfill above box section 12 21-Nov-16 03-Dec-16 5 Section VI D - Area Section 12 21-Nov-16 03-Dec-16 5 VDI Box 1 Construction 12 21-Nov-16 03-Dec-16 5 WD- Gob Sec VID - Install rebar & formwork at Wall 12 24 09-Sep-16* 02-Oct-16 15	130 Seo	ec III A - roadwork and utilities (Zone D) - HEC	50	14-Dec-16	17-Feb-17	-103			
Cullinazio Culvert L - bay 8 - construct pile cap 23 25-Jul-16 A 22-Sep-16 6 Cullinazio Culvert L - bay 8 - construct base slab 26 23-Sep-16 18-Oct-16 66 Cullinazio Culvert L - bay 8 - construct base slab 21 19-Oct-16 08-Nov-16 66 Cullinazio Culvert L - bay 8 - construct pile base 11 09-Nov-16 19-Nov-16 66 Cullinazio Culvert L - bay 8 - construct pile base 11 09-Nov-16 19-Nov-16 66 Culvert L - bay 8 - construct pile base 11 09-Nov-16 19-Nov-16 66 6 Culvert L - bay 8 - construct pile base scettor 12 21-Nov-16 03-Dec-16 5 5 Cultor L - bay 8 - backfill above box section 12 21-Nov-16 03-Dec-16 5 5 Cultor L - bay 8 - backfill above box section 12 21-Nov-16 03-Dec-16 5 5 Cultor L - bay 8 - backfill above box section 12 21-Nov-16 03-Dec-16 5 5 VDI Box 1	ert L1 & F	RP-L - Bay 8							
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And the second sectionAnd the second sectionAnd the second sectionAnd the second sectionCUL11320Culvert L - bay 8 - construct top slab1109-Nov-166CUL11340Culvert L - bay 8 - backfill above box section1221-Nov-1603-Dec-165Cultor L - bay 8 - backfill above box section1221-Nov-1603-Dec-165Cultor L - bay 8 - backfill above box section1221-Nov-1603-Dec-165Cultor L - bay 8 - backfill above box section1221-Nov-1603-Dec-165Cultor L - bar 8 - backfill above box section1209-Sep-16*03-Dec-165Cultor L - bar 8 - backfill above box section2409-Sep-16*02-Oct-16-175	22 Cu	ulvert L - bay 8 - construct base slab	26	23-Sep-16	18-Oct-16	6		<u>;</u>	
Cull 1328Culvert L - bay 8 - construt top slab1109-Nov-1619-Nov-166Culuert L - bay 8 - construt top slab1109-Nov-1603-Dec-166Cull 1340Culvert L - bay 8 - backfill above box section1221-Nov-1603-Dec-165Cutor VI D - Arrest B & 10VIII Box 1 - ConstructionVIII Box 1 - ConstructionVIII Box 1 - ConstructionVIII Box 1 - ConstructionVDII Box 1 Construction2409-Sep-16*02-Oct-16-175	26 Cu	ulvert L - Bay 8 - construct wall	21	19-Oct-16	08-Nov-16	6			
And		•	11		19-Nov-16	6			
CUL11340 Culvert L - bay 8 - backfill above box section 12 21-Nov-16 03-Dec-16 5 ection VI D - Area 8B & 10 VDII Box 1 Construction VDII Box 1 Construction VDI Pierre 8B & 10 VDII Box 1 Construction VDII Box 1 Construction WD-C3054 Sec VID - Install rebar & formwork at Wall 12 24 09-Sep-16* 02-Oct-16 -175		· · ·	11	05 100 10	13 100 10	0			
ction VI D - Area 8B & 10 (DII Box 1 Construction VDII Box 1 Existing Pile Head and Dry Dock WD-C3054 Sec VID - Install rebar & formwork at Wall 12 24 09-Sep-16* 02-Oct-16 -175			10		00.5				
VDII Box 1 Construction WDI: Box 1 Existing Pile Head and Dry Dock WD-C3054 Sec VID - Install rebar & formwork at Wall 12 24 09-Sep-16* 02-Oct-16 -175			12	21-Nov-16	03-Dec-16	5			
VDII Box 1 Existing Pile Head and Dry Dock WD-C3054 Sec VID - Install rebar & formwork at Wall 12 24 09-Sep-16* 02-Oct-16 -175	/I D - Area	a 8B & 10							
VD-C3054 Sec VID - Install rebar & formwork at Wall 12 24 09-Sep-16* 02-Oct-16 -175	ox 1 Const	truction							
	ox 1 Existin	ng Pile Head and Dry Dock							
ND-C3056 Sec VID - Install rebar & formwork at Wall BH 24 16-Sep-16 09-Oct-16 -168	054 See	ec VID - Install rebar & formwork at Wall 12	24	09-Sep-16*	02-Oct-16	-175			
	056 See	ec VID - Install rebar & formwork at Wall BH	24	16-Sep-16	09-Oct-16	-168		<u>.</u>	
WD-C3058 Sec VID - Install rebar & formwork at Wall 15 & 16 24 23-Sep-16 16-Oct-16 -175	058 50	or VID - Install rebar & formwork at Wall 15 & 16	74		16-0ct-16	-175			

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D	Activity Name	Remaining Dur	Early Start	Early Finish	Total Float	2016 Sep Oct Nov	Dec
WD-C3072	Sec VID - Formwork striking, tie bolt hole and waterproofing	20	18-Aug-16 A	19-Sep-16	-178		
WD-C3092	Sec VID - Install internal strutting S1	9	22-Sep-16	30-Sep-16	-178		
WD-C3112	Sec VID - Install buoyancy tank	9	01-Oct-16	09-Oct-16	-178		
WD-C3132	Sec VID - Install ballast tanks inside precast box I and	10	10-Oct-16	19-Oct-16	-178		
WDII Box 1 EL	internal strut S2						
WD-C3998	Sec VIC - Install middle strut S2 at -6.5mPD	14	30-Aug-16 A	13-Sep-16	-179		
WD-C4060	Sec VIC - Excavation of rock fill down to -11.5mPD	8	14-Sep-16	21-Sep-16	-179		
WD-C4070	Sec VIC - Install waling WB4 at -10.6mPD	7	22-Sep-16	28-Sep-16	-179		
WD-C4080	Sec VIC - 3rd Layer of Strut	9	29-Sep-16	07-Oct-16	-179		
WD-C4120	Sec VIC - Joint Survey of excavated level	2	08-Oct-16	09-Oct-16	-179	_	
WD-C4140	Sec VIC - Tremie concrete at bottom level	5	10-Oct-16	14-Oct-16	-179		
WD-C4160	Sec VIC - Joint Survey of concrete level	2	15-Oct-16	16-Oct-16	-179		
WD-C4180	Sec VIC - Remove Strut S2	2	17-Oct-16	18-Oct-16	-179		
WD-C4190	Sec VIC - Cut bored pile casing	2	19-Oct-16	20-Oct-16	-179		
WDII Box 1 Bo	ottom Slab						
WD-C5040	Sec VI D - tow bottom slab to position	2	21-Oct-16	22-Oct-16	-179		
WDII Box 1 R	emaining Structure						
WD-C6040	Sec VID - Concreting Wall 12, 13, 15 & 16 and Wall BH	4	23-Oct-16	26-Oct-16	-179		
WD-C6060	Sec VID - Construct roof slab	10	27-Oct-16	05-Nov-16	-179		
WD-C6080	Sec VID - Extension of sacarifical wall (2.3m)	17	06-Nov-16	22-Nov-16	-179		
WD-C6100	Sec VID - Balasting and final sink Box I to -10.0mPD	3	23-Nov-16	25-Nov-16	-179		
WD-C6120	Sec VID - Construct remaining roof slab	8	26-Nov-16	03-Dec-16	-179		
WD-C6140	Sec VID - Backfilling lean concreting to -6.5mPD	3	04-Dec-16	06-Dec-16	-179		_
	Sec VID - Remove ELS and cut off pipe pile head	16	07-Dec-16	22-Dec-16	-179		
		10	07-Det-10	22-Det-10	-175		
Section IV - SI							
	Utilities (Lung King Street)						
SIV11000	Sec IV - Stage 1: Roadwork & Utilities (MH1.2 to MH1.3)	1	09-May-16 A	31-Aug-16	-64		
SIV11020	Sec IV - Stage 2: Roadwork & Utilities (MH1.3 to MH1.4)	31	01-Sep-16	08-Oct-16	-64		
SIV11060	Sec IV - Stage 3: Roadwork & Utilities (MH1.4 to MH1.5)	13	11-Oct-16	25-Oct-16	-64		
Section VII - R	Remainder Works						
Retaining Wa	II RW5 Construction						
SVII10660	Sec VII - Retaining Wall RW5 (bay 1) - construct base slab and wall	18	07-Nov-16	26-Nov-16	-18		
SVII10680	Sec VII - Retaining wall RW5 (bay 2) - construct base slab	18	28-Nov-16	17-Dec-16	-18		
SVII10800	and wall Sec VII Retaining wall RW5 (bay 3) - construct base slab	18	07-Nov-16	26-Nov-16	-18		
SVII10820	and wall Sec VII - Retaining wall RW5 (bay 4) - construct base slab	18	28-Nov-16	17-Dec-16	-18		
	and wall s Construction						
Landing Steps							
SVII10700	Sec VII - Landing steps (BSW13) - construct mass	26	05-Dec-16	06-Jan-17	-28		
	concrete coping	20	0J-Dec-10	UU-JUI-1/	-20		
Landing Steps							
SVII10940	Sec VII - Landing steps (BSW4) - construct mass concrete coping	26	05-Dec-16	06-Jan-17	-28		

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

iy ID	Activity Name	Remaining Dur	Early Start	Early Finish	Total Float
Landing Step	os BSW5				
SVII11020	Sec VII - Landing steps (BSW5) - construct mass concrete coping	26	05-Dec-16	06-Jan-17	-24
Landing Step		,I			
SVII11100	Sec VII - Landing steps (BSW9) - construct mass concrete coping	24	05-Dec-16*	04-Jan-17	-21
Promenade S	Seawall Parapet Construction				
SVII10400	Sec VII - construct block seawall mass concrete coping & backfill to pavement formation	90	03-Oct-16*	19-Jan-17	-9
SVII10600	Sec VII - construct seawall parapet (Zone A1, A2 & B)	90	13-Dec-16	05-Apr-17	-9
	Landscape Softworks				
Section VIII -	Landscape Softworks				
Soft Landsca	ping Works				
SVIII10040	Sec VIII - Trees Planting	163	31-Aug-16	20-Mar-17	0
311110040	Sec VIII - Trees Flahung	105	51-Aug-10	20-1411-17	0
Section X - Pr	rotection & Preservation of Trees				
Soft Landsca	ning Works				
Soft Lanusca					
SX10020	Sec X - Protection & Preservation of Trees	326	31-Jan-13 A	22-Jul-17	0
VO L Constru	uction of Box 4A & 4B				
Box 4A					
4A10000	Concrete Fill with 300 dia. carrier drain (Approx. 50m)	16	26-Sep-16*	11-Oct-16	-152
	,		•		102
4A10020	Internal Suspended Slab & Internal Wall	24	30-Sep-16	23-Oct-16	-152
Box 4B					
4B10000	Concrete Fill with 300 dia. carrier drain (Approx. 50m)	16	12-Oct-16	27-Oct-16	-144
4B10010	Internal Suspended Slab & Internal Wall	24	24-Oct-16	16-Nov-16	-152
1010010		21	21 000 10	10 110 110	152

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/ity ID	Activity Name	Original	Start	Finish									
ny io		Duration	Clart		Jul				Aug		2016		Sep
Total		1791d	21-Mar-13 A	13-Dec-17									
DWP-06 (A) - L	Jpdate Progress As of 20 Jul 16	1791d	21-Mar-13 A	13-Dec-17									
Works in KD2		16d	16-Jun-16 A	30-Jul-16									
Works in TS3-Ea	ast	16d	16-Jun-16 A	30-Jul-16									
Removal of Tem	porary Reclamation at TS3(E)	16d	16-Jun-16 A	30-Jul-16									
Construction o	f Seawall at Eastern side of TS3W	16d	16-Jun-16 A	30-Jul-16									
TS3E_9300	Levelling Stone	4d	16-Jun-16 A	20-Jun-16 A									
TS3E_9310	Seawall Blocks Installation	16d	28-Jun-16 A	22-Jul-16 A			Seawall Blocks	Installation					
TS3E_9320	Backfill General Fill	5d	21-Jul-16 A	30-Jul-16				Backfill Ge	neral Fill				
Works in KD7		102d	01-Jun-16 A	29-Oct-16									
Works in TS3-W	lest	102d	01-Jun-16 A	29-Oct-16									
ELS		30d	01-Jun-16 A	27-Aug-16									
East Portion		13d	17-Jun-16 A	07-Jul-16 A									
Zone E1 (Type	e 4 to Type 3)	2d	18-Jun-16 A	24-Jun-16 A							\neg		
TS3W_1820	Zone E1 - Blinding	2d	18-Jun-16 A	24-Jun-16 A									
Zone E2 (Type	2)	4d	17-Jun-16 A	07-Jul-16 A									
TS3W_1330	Zone E2 - Excavation to Formation Level	2d	17-Jun-16 A	28-Jun-16 A	xcavation to Formation	Leve	I						
TS3W_1830	Zone E2 - Blinding	2d	29-Jun-16 A	07-Jul-16 A	Zone E2 - Blinding	g							
West Portion		30d	01-Jun-16 A	27-Aug-16									
Zone W1 (Type	e 2 & Type 1b)	15d	07-Jun-16 A	12-Aug-16									
TS3W_1480	Zone W1 - Excavation for Layer 8	9d	07-Jun-16 A	28-Jul-16			Zo	ne W1 - Exc	avation for Layer 8				
TS3W_1490	Zone W1 - Strut Installation for SL8	9d	28-Jul-16	06-Aug-16	-				Zone W1 - Strut Installation	1 for SL8			
	Zone W1 - Construct 2nos. Barrettes within this zone	4d	06-Aug-16	10-Aug-16	-				Zone W1 - Constru		ettes wit	hin this zone	
TS3W_1500	Zone W1 - Excavation to Formation Level	4d	06-Aug-16	10-Aug-16	_				Zone W1 - Excava				
TS3W_1840	Zone W1 - Blinding	2d	10-Aug-16	12-Aug-16	_				Zone W1 - Blin				
Zone W2 (Type	, , , , , , , , , , , , , , , , , , ,	28d	01-Jun-16 A	27-Aug-16									
TS3W_1650	Zone W2 - Excavation for Layer 8	6d	01-Jun-16 A	06-Aug-16					Zone W2 - Excavation for I	aver 8			
TS3W_1640	Zone W2 - Strut Installation for SL7	6d	02-Jun-16 A	31-Jul-16	_			Zone W/	2 - Strut Installation for SL7	ayero			
	Zone W2 - Strut Installation for SL8		06-Aug-16		_			20110 112	Zone W2 - Stru		for SL 0		
TS3W_1660	Zone W2 - Soft Excavation to Formation Level	6d	-	12-Aug-16	_							- Cormotion L	
TS3W_1670		4d	12-Aug-16	16-Aug-16						V2 - Soft Exca			
TS3W_1870	Zone W2 - Construct 2nos. Barrettes within this zone	4d	17-Aug-16	20-Aug-16						1		1	tes within this zon tion to Formation L
TS3W_1680	Zone W2 - Rock Excavation to Formation Level	9d	17-Aug-16	25-Aug-16									ion to Formation L
TS3W_1850	Zone W2 - Blinding	2d	25-Aug-16	27-Aug-16								2 - Blinding	
CCT		102d	16-Jun-16 A	29-Oct-16									
Northern & Sou	Ithern Tunnel	99d	16-Jun-16 A	26-Oct-16									
Zone E1		64d	16-Jun-16 A	21-Sep-16									
Bay 1		64d	16-Jun-16 A	21-Sep-16									
TS3W_2080	Bay 1 - Concrete Strut & Remove SL 5,6,7	7d	20-Jul-16 A	26-Jul-16			Bay 1	- Concrete S	Strut & Remove SL 5,6,7				
TS3W_2090	Bay 1 - Spray Type Waterproofing, Protection Board & Backfilling	10d	08-Aug-16	17-Aug-16					Bay 1	- Spray Type	· ·	1	ction Board & Bac
TS3W_2100	Bay 1 - Break Trough Bulkhead Bay 1N & 1S	21d	08-Aug-16	28-Aug-16							Bay 1	- Break Troug	gh Bulkhead Bay 1
Bay N1		55d	28-Jun-16 A	21-Sep-16									
T\$3W_2110	Bay N1 - Base Slab	7d	28-Jun-16 A	19-Jul-16 A			Bay N1 - Base Slab						
TS3W_2120) Bay N1 - Wall 5	7d	30-Jul-16	05-Aug-16					Bay N1 - Wall 5				
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		Actual Work	Page 1 of 10	Date	
				20-Jul-16	Update
		Remaining Work			
		Critical Remaining Work	Contract No. HY/2010/08: Central - Wanchai Bypass Tunnel +(Slip		
	 	Milestone	Road 8 Section) - 3 Months Rolling Progamme		
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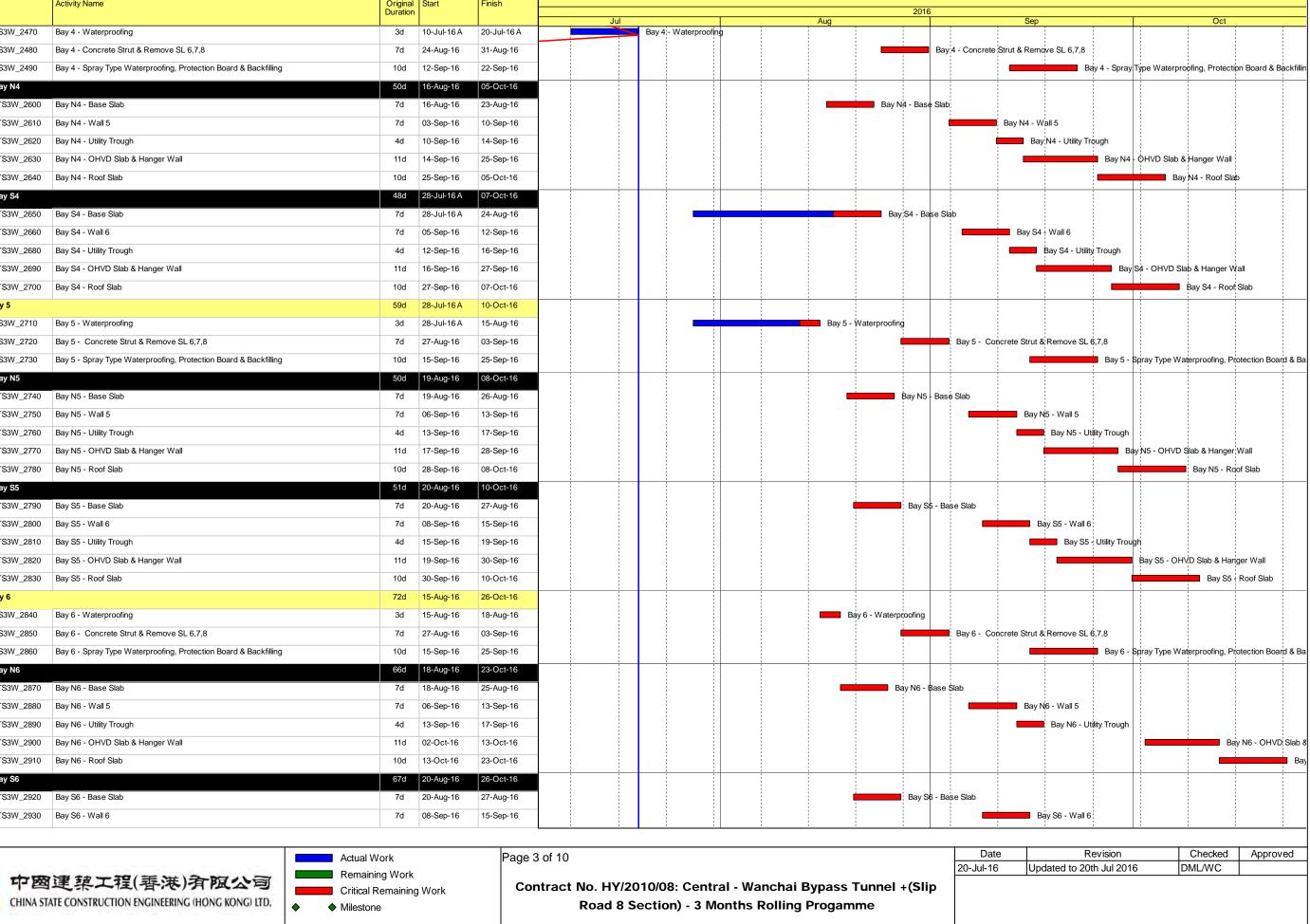
TS3W_2140 Bay N1 TS3W_2150 Bay N1 TS3W_2160 Bay S1 TS3W_2170 Bay S1 TS3W_2180 Bay S1 TS3W_2190 Bay S1 TS3W_2190 Bay S1 TS3W_2200 Bay S2 TS3W_2200 Bay S2 TS3W_2200 Bay N2 TS3W_2200 Bay S2 TS3W_2200 Bay S2 TS3W_2300 Bay S2 <th> Utility Trough OHVD Slab & Hanger Wall Roof Slab Base Slab Wall 6 Utility Trough OHVD Slab & Hanger Wall Roof Slab Waterproofing Concrete Strut & Remove SL 6,7,8 Spray Type Waterproofing, Protection Board & Backfilling Pase Slab Waterproofing Concrete Strut & Remove SL 6,7,8 Spray Type Waterproofing, Protection Board & Backfilling I asse Slab Utility Trough OHVD Slab & Hanger Wall Spray Type Waterproofing, Protection Board & Backfilling Pase Slab Wall 5 Utility Trough OHVD Slab & Hanger Wall Roof Slab </th> <th>Original Duration 4d 11d 10d 53d 7d 4d 11d 7d 4d 11d 7d 4d 11d 10d 44d 10d 44d 10d 42d 7d 7d 42d 7d 42d 7d 10d 42d 7d 11d 11d</th> <th>Start 06-Aug-16 01-Sep-16 12-Sep-16 16-Jun-16 A 16-Jun-16 A 01-Aug-16 08-Aug-16 01-Sep-16 12-Sep-16 12-Sep-16 12-Sep-16 12-Sep-16 12-Sep-16 12-Sup-16 08-Aug-16 08-Aug-16 08-Jul-16 A 30-Jul-16 A 30-Jul-16 A 10-Aug-16</th> <th>Finish 09-Aug-16 11-Sep-16 21-Sep-16 21-Sep-16 11-Jul-16 A 07-Aug-16 11-Sep-16 21-Sep-16 07-Aug-16 11-Sep-16 21-Sep-16 01-Sep-16 27-Jun-16 A 26-Jul-16 30-Aug-16 23-Jul-16 A 05-Aug-16 09-Aug-16</th> <th>proofing</th> <th>Jul Bay S1 - Base</th> <th>Slab</th> <th>Bay 2</th> <th>Concrete St</th> <th>Bay S1 -</th> <th>ay S1 - Utility</th> <th></th> <th>2016</th> <th></th> <th></th> <th>0HVD Slab &</th> <th>N1 - Roo Hanger V</th>	 Utility Trough OHVD Slab & Hanger Wall Roof Slab Base Slab Wall 6 Utility Trough OHVD Slab & Hanger Wall Roof Slab Waterproofing Concrete Strut & Remove SL 6,7,8 Spray Type Waterproofing, Protection Board & Backfilling Pase Slab Waterproofing Concrete Strut & Remove SL 6,7,8 Spray Type Waterproofing, Protection Board & Backfilling I asse Slab Utility Trough OHVD Slab & Hanger Wall Spray Type Waterproofing, Protection Board & Backfilling Pase Slab Wall 5 Utility Trough OHVD Slab & Hanger Wall Roof Slab 	Original Duration 4d 11d 10d 53d 7d 4d 11d 7d 4d 11d 7d 4d 11d 10d 44d 10d 44d 10d 42d 7d 7d 42d 7d 42d 7d 10d 42d 7d 11d 11d	Start 06-Aug-16 01-Sep-16 12-Sep-16 16-Jun-16 A 16-Jun-16 A 01-Aug-16 08-Aug-16 01-Sep-16 12-Sep-16 12-Sep-16 12-Sep-16 12-Sep-16 12-Sep-16 12-Sup-16 08-Aug-16 08-Aug-16 08-Jul-16 A 30-Jul-16 A 30-Jul-16 A 10-Aug-16	Finish 09-Aug-16 11-Sep-16 21-Sep-16 21-Sep-16 11-Jul-16 A 07-Aug-16 11-Sep-16 21-Sep-16 07-Aug-16 11-Sep-16 21-Sep-16 01-Sep-16 27-Jun-16 A 26-Jul-16 30-Aug-16 23-Jul-16 A 05-Aug-16 09-Aug-16	proofing	Jul Bay S1 - Base	Slab	Bay 2	Concrete St	Bay S1 -	ay S1 - Utility		2016			0HVD Slab &	N1 - Roo Hanger V
TS3W_2140 Bay N1 TS3W_2150 Bay N1 TS3W_2160 Bay S1 TS3W_2170 Bay S1 TS3W_2180 Bay S1 TS3W_2190 Bay S1 TS3W_2190 Bay S1 TS3W_2200 Bay S2 TS3W_2200 Bay S2 TS3W_2200 Bay N2 TS3W_2200 Bay S2 TS3W_2200 Bay S2 TS3W_2300 Bay S2 <th> 1 - OHVD Slab & Hanger Wall 1 - Roof Slab 1 - Base Slab 1 - Wall 6 1 - Utility Trough 1 - OHVD Slab & Hanger Wall 1 - Roof Slab - Waterproofing - Concrete Strut & Remove SL 6,7,8 - Spray Type Waterproofing, Protection Board & Backfilling 2 - Base Slab 2 - Wall 5 2 - Utility Trough 2 - OHVD Slab & Hanger Wall 2 - Roof Slab </th> <th>11d 10d 53d 7d 4d 11d 10d 44d 3d 7d 10d 42d 7d 7d 7d 7d 4d</th> <th>01-Sep-16 12-Sep-16 16-Jun-16 A 16-Jun-16 A 01-Aug-16 08-Aug-16 01-Sep-16 12-Sep-16 16-Jun-16 A 20-Jul-16 08-Aug-16 05-Jul-16 A 30-Jul-16 06-Aug-16</th> <th>11-Sep-16 21-Sep-16 21-Sep-16 11-Jul-16 A 07-Aug-16 11-Sep-16 21-Sep-16 23-Jul-16 A 23-Jul-16 A 05-Aug-16</th> <th>proofing</th> <th></th> <th>Slab</th> <th>Bay 2</th> <th>Concrete St</th> <th>Bay S1 -</th> <th>1 - Utility Trc Wall 6 ay S1 - Utility</th> <th></th> <th></th> <th></th> <th>Bay N1 - (</th> <th>Bay</th> <th>N1 - Roo Hanger V</th>	 1 - OHVD Slab & Hanger Wall 1 - Roof Slab 1 - Base Slab 1 - Wall 6 1 - Utility Trough 1 - OHVD Slab & Hanger Wall 1 - Roof Slab - Waterproofing - Concrete Strut & Remove SL 6,7,8 - Spray Type Waterproofing, Protection Board & Backfilling 2 - Base Slab 2 - Wall 5 2 - Utility Trough 2 - OHVD Slab & Hanger Wall 2 - Roof Slab 	11d 10d 53d 7d 4d 11d 10d 44d 3d 7d 10d 42d 7d 7d 7d 7d 4d	01-Sep-16 12-Sep-16 16-Jun-16 A 16-Jun-16 A 01-Aug-16 08-Aug-16 01-Sep-16 12-Sep-16 16-Jun-16 A 20-Jul-16 08-Aug-16 05-Jul-16 A 30-Jul-16 06-Aug-16	11-Sep-16 21-Sep-16 21-Sep-16 11-Jul-16 A 07-Aug-16 11-Sep-16 21-Sep-16 23-Jul-16 A 23-Jul-16 A 05-Aug-16	proofing		Slab	Bay 2	Concrete St	Bay S1 -	1 - Utility Trc Wall 6 ay S1 - Utility				Bay N1 - (Bay	N1 - Roo Hanger V
TS3W_2150 Bay N1 Bay S1 TS3W_2160 Bay S1 TS3W_2160 Bay S1 TS3W_2170 Bay S1 TS3W_2180 Bay S1 TS3W_2190 Bay S1 TS3W_2190 Bay S1 TS3W_2190 Bay S1 TS3W_2190 Bay S1 TS3W_2100 Bay S1 TS3W_2200 Bay S1 TS3W_2200 Bay S1 TS3W_2210 Bay 2 G TS3W_2200 TS3W_2220 Bay 2 G TS3W_2230 Bay N2 TS3W_2230 Bay N2 G TS3W_2200 Bay N2 TS3W_2260 Bay N2 TS3W_2200 Bay S2 TS3W_2280 Bay N2 TS3W_2200 Bay S2 TS3W_2300 Bay S2 TS3W_2310 Bay S2 TS3W_2320 Bay S2 TS3W_2330 Bay S2 TS3W_2330 B	 1 - Roof Slab 1 - Base Slab 1 - Wall 6 1 - Utility Trough 1 - OHVD Slab & Hanger Wall 1 - Roof Slab - Waterproofing - Concrete Strut & Remove SL 6,7,8 - Spray Type Waterproofing, Protection Board & Backfilling 2 - Base Slab 2 - Wall 5 2 - Utility Trough 2 - OHVD Slab & Hanger Wall 2 - Roof Slab 	10d 53d 7d 4d 11d 10d 44d 3d 3d 7d 10d 42d 7d 7d 7d 4d 11d	12-Sep-16 16-Jun-16 A 16-Jun-16 A 01-Aug-16 08-Aug-16 01-Sep-16 12-Sep-16 16-Jun-16 A 20-Jul-16 08-Aug-16 05-Jul-16 A 30-Jul-16 06-Aug-16	21-Sep-16 21-Sep-16 11-Jul-16 A 07-Aug-16 11-Aug-16 11-Sep-16 21-Sep-16 21-Sep-16 27-Jun-16 A 26-Jul-16 17-Aug-16 30-Aug-16 23-Jul-16 A 05-Aug-16	proofing	Bay S1 - Base	Slab	Bay 2	Concrete St		ay S1 - Utility	Trough				Bay	N1 - Roo
Bay S1 TS3W_2160 Bay S1 - TS3W_2170 Bay S1 - TS3W_2180 Bay S1 - TS3W_2190 Bay S1 - TS3W_2190 Bay S1 - TS3W_2190 Bay S1 - TS3W_2200 Bay S1 - TS3W_2200 Bay S1 - TS3W_2200 Bay 2 - V TS3W_2210 Bay 2 - V TS3W_2220 Bay 2 - V TS3W_2230 Bay 2 - V TS3W_2230 Bay 2 - V TS3W_2230 Bay N2 - TS3W_2240 Bay N2 - TS3W_2250 Bay N2 - TS3W_2260 Bay N2 - TS3W_2270 Bay N2 - TS3W_2280 Bay N2 - TS3W_2290 Bay S2 - TS3W_2300 Bay S2 - TS3W_2330 Bay	 Base Slab Wall 6 Utility Trough OHVD Slab & Hanger Wall Roof Slab Waterproofing Concrete Strut & Remove SL 6,7,8 Spray Type Waterproofing, Protection Board & Backfilling Base Slab Wall 5 Utility Trough OHVD Slab & Hanger Wall Roof Slab 	53d 7d 7d 4d 11d 10d 44d 10d 44d 10d 42d 7d 7d 42d 7d 42d 7d 11d	16-Jun-16 A 16-Jun-16 A 01-Aug-16 08-Aug-16 01-Sep-16 12-Sep-16 16-Jun-16 A 20-Jul-16 08-Aug-16 05-Jul-16 A 30-Jul-16 30-Jul-16	21-Sep-16 11-Jul-16 A 07-Aug-16 11-Aug-16 11-Sep-16 21-Sep-16 21-Sep-16 21-Sep-16 27-Jun-16 A 26-Jul-16 30-Aug-16 23-Jul-16 A 05-Aug-16	proofing	Bay S1 - Base	Slab	— Bay 2	Concrete St		ay S1 - Utility	rtrough			Bay S1 - (0HVD Slab &	Hanger W
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TS3W_2170 Bay S1 TS3W_2180 Bay S1 TS3W_2190 Bay S1 TS3W_2190 Bay S1 TS3W_2200 Bay S1 TS3W_2210 Bay 2 TS3W_2220 Bay 2 TS3W_2230 Bay 2 TS3W_2260 Bay N2 TS3W_2260 Bay N2 TS3W_2260 Bay N2 TS3W_2270 Bay N2 TS3W_2280 Bay N2 TS3W_2280 Bay S2 TS3W_2290 Bay S2 TS3W_2310 Bay S2 TS3W_2320 Bay S2 TS3W_2330 Bay S2	 Wall 6 Utility Trough OHVD Slab & Hanger Wall Roof Slab Waterproofing Concrete Strut & Remove SL 6,7,8 Spray Type Waterproofing, Protection Board & Backfilling Passe Slab Wall 5 Utility Trough OHVD Slab & Hanger Wall Roof Slab 	7d 4d 11d 10d 44d 3d 7d 10d 42d 7d 4d 11d	01-Aug-16 08-Aug-16 01-Sep-16 12-Sep-16 16-Jun-16 A 16-Jun-16 A 20-Jul-16 08-Aug-16 05-Jul-16 A 30-Jul-16	11-Jul-16 A 07-Aug-16 11-Aug-16 11-Sep-16 21-Sep-16 01-Sep-16 27-Jun-16 A 26-Jul-16 30-Aug-16 23-Jul-16 A 05-Aug-16	proofing	Bay S1 - base	Slab	Bay 2	Concrete St		ay S1 - Utility	Trough			Bay S1 - (
TS3W_2180 Bay S1 TS3W_2190 Bay S1 TS3W_2200 Bay S2 TS3W_2200 Bay 2 TS3W_2200 Bay N2 TS3W_2200 Bay N2 TS3W_2200 Bay N2 TS3W_2200 Bay N2 TS3W_2200 Bay S2 TS3W_2300 Bay S2	 Utility Trough OHVD Slab & Hanger Wall Roof Slab Waterproofing Concrete Strut & Remove SL 6,7,8 Spray Type Waterproofing, Protection Board & Backfilling Base Slab Wall 5 Utility Trough OHVD Slab & Hanger Wall Roof Slab 	4d 11d 10d 44d 3d 7d 10d 42d 7d 7d 7d 4d	08-Aug-16 01-Sep-16 12-Sep-16 16-Jun-16 A 20-Jul-16 08-Aug-16 05-Jul-16 A 30-Jul-16 06-Aug-16	11-Aug-16 11-Sep-16 21-Sep-16 01-Sep-16 27-Jun-16 A 26-Jul-16 17-Aug-16 30-Aug-16 23-Jul-16 A 05-Aug-16	proofing			Bay 2	Concrete Si		ay S1 - Utility	r Trough			Bay S1 - (
TS3W_2190 Bay S1 - TS3W_2200 Bay S1 - TS3W_2200 Bay S1 - TS3W_2210 Bay 2 - N TS3W_2210 Bay 2 - N TS3W_2220 Bay 2 - N TS3W_2230 Bay 2 - N TS3W_2230 Bay 2 - N TS3W_2230 Bay N2 - TS3W_2240 Bay N2 - TS3W_2250 Bay N2 - TS3W_2260 Bay N2 - TS3W_2260 Bay N2 - TS3W_2280 Bay N2 - TS3W_2280 Bay S2 - TS3W_2300 Bay S2 - TS3W_2310 Bay S2 - TS3W_2320 Bay S2 - TS3W_2330 Bay S2 -	OHVD Slab & Hanger Wall Protection Board & Backfilling Our Slab Spray Type Waterproofing, Protection Board & Backfilling Protection Board & Backfilling Our Slab Sub Our Slab Our Slab Anger Wall Court Slab	11d 10d 44d 3d 7d 10d 42d 7d 7d 7d 4d 11d	01-Sep-16 12-Sep-16 16-Jun-16 A 16-Jun-16 A 20-Jul-16 08-Aug-16 05-Jul-16 A 30-Jul-16 06-Aug-16	11-Sep-16 21-Sep-16 01-Sep-16 27-Jun-16 A 26-Jul-16 17-Aug-16 30-Aug-16 23-Jul-16 A 05-Aug-16	proofing			Bay 2	Concrete St			r trough			Bay S1 - C		-
TS3W_2200 Bay S1 - Bay 2 S3W_2210 Bay 2 - 0 TS3W_2210 Bay 2 - 0 TS3W_2220 Bay 2 - 0 TS3W_2220 Bay 2 - 0 TS3W_2230 Bay N2 - TS3W_2260 Bay N2 - TS3W_2260 Bay N2 - TS3W_2270 Bay N2 - TS3W_2280 Bay N2 - TS3W_2290 Bay S2 - TS3W_2300 Bay S2 - TS3W_2310 Bay S2 - TS3W_2300 Bay S2 - TS3W_2330 Bay S2 -	 Roof Slab Waterproofing Concrete Strut & Remove SL 6,7,8 Spray Type Waterproofing, Protection Board & Backfilling 2 - Base Slab 2 - Wall 5 2 - Utility Trough 2 - OHVD Slab & Hanger Wall 2 - Roof Slab 	10d 44d 3d 7d 10d 42d 7d 7d 7d 4d	12-Sep-16 16-Jun-16 A 16-Jun-16 A 20-Jul-16 08-Aug-16 05-Jul-16 A 30-Jul-16 06-Aug-16	21-Sep-16 01-Sep-16 27-Jun-16 A 26-Jul-16 17-Aug-16 30-Aug-16 23-Jul-16 A 05-Aug-16	proofing			Bay 2	Concrete St	rut & Remov	e SL 6,7,8				Bay S1 - (-
Bay 2 TS3W_2210 Bay 2 - 0 TS3W_2220 Bay 2 - 0 TS3W_2230 Bay N2 - 0 TS3W_2240 Bay N2 - 0 TS3W_2250 Bay N2 - 0 TS3W_2260 Bay N2 - 0 TS3W_2270 Bay N2 - 0 TS3W_2280 Bay N2 - 0 TS3W_2280 Bay S2 - 0 TS3W_2290 Bay S2 - 0 TS3W_2310 Bay S2 - 0 TS3W_2320 Bay S2 - 0 TS3W_2330 Bay S2 - 0	- Waterproofing - Concrete Strut & Remove SL 6,7,8 - Spray Type Waterproofing, Protection Board & Backfilling 2 - Base Slab 2 - Wall 5 2 - Wall 5 2 - Utility Trough 2 - OHVD Slab & Hanger Wall 2 - Roof Slab	44d 3d 7d 10d 42d 7d 7d 42d 7d 11d	16-Jun-16 A 16-Jun-16 A 20-Jul-16 08-Aug-16 05-Jul-16 A 30-Jul-16 06-Aug-16	01-Sep-16 27-Jun-16 A 26-Jul-16 17-Aug-16 30-Aug-16 23-Jul-16 A 05-Aug-16	proofing			Bay 2	Concrete St	rut & Remov	e SL 6,7,8					Bay	S1 - Roof
TS3W_2210 Bay 2 - V TS3W_2220 Bay 2 - V TS3W_2220 Bay 2 - V TS3W_2230 Bay N2 - V TS3W_2250 Bay N2 - V TS3W_2260 Bay N2 - V TS3W_2260 Bay N2 - V TS3W_2270 Bay N2 - V TS3W_2280 Bay N2 - V TS3W_2290 Bay S2 - V TS3W_2300 Bay S2 - V TS3W_2310 Bay S2 - V TS3W_2320 Bay S2 - V TS3W_2330 Bay S2 - V TS3W_2300 Bay S2 - V	 Concrete Strut & Remove SL 6,7,8 Spray Type Waterproofing, Protection Board & Backfilling 2 - Base Slab 2 - Wall 5 2 - Utility Trough 2 - OHVD Slab & Hanger Wall 2 - Roof Slab 	3d 7d 10d 42d 7d 7d 7d 4d 11d	16-Jun-16 A 20-Jul-16 08-Aug-16 05-Jul-16 A 05-Jul-16 A 30-Jul-16 06-Aug-16	27-Jun-16 A 26-Jul-16 17-Aug-16 30-Aug-16 23-Jul-16 A 05-Aug-16	proofing			Bay 2	Concrete St	rut & Remov	e SL 6,7,8						8 8 9 1 1 1
TS3W_2210 Bay 2 - V TS3W_2220 Bay 2 - V TS3W_2220 Bay 2 - V TS3W_2230 Bay N2 - V TS3W_2250 Bay N2 - V TS3W_2260 Bay N2 - V TS3W_2260 Bay N2 - V TS3W_2270 Bay N2 - V TS3W_2280 Bay N2 - V TS3W_2290 Bay S2 - V TS3W_2300 Bay S2 - V TS3W_2310 Bay S2 - V TS3W_2320 Bay S2 - V TS3W_2330 Bay S2 - V TS3W_2300 Bay S2 - V	 Concrete Strut & Remove SL 6,7,8 Spray Type Waterproofing, Protection Board & Backfilling 2 - Base Slab 2 - Wall 5 2 - Utility Trough 2 - OHVD Slab & Hanger Wall 2 - Roof Slab 	7d 10d 42d 7d 7d 7d 4d 11d	20-Jul-16 08-Aug-16 05-Jul-16 A 05-Jul-16 A 30-Jul-16 06-Aug-16	26-Jul-16 17-Aug-16 30-Aug-16 23-Jul-16 A 05-Aug-16	proofing			Bay 2	Concrete St	rut & Remov	e SL 6,7,8						1 1 1
TS3W_2230 Bay 2 - 3 Bay N2 TS3W_2240 Bay N2 - 3 TS3W_2240 Bay N2 - 3 TS3W_2250 Bay N2 - 3 TS3W_2250 Bay N2 - 3 TS3W_2260 Bay N2 - 3 TS3W_2260 Bay N2 - 3 TS3W_2260 Bay N2 - 3 TS3W_2280 Bay N2 - 3 TS3W_2280 Bay N2 - 3 TS3W_2280 Bay S2 - 3 TS3W_2300 Bay S2 - 3 TS3W_2310 Bay S2 - 3 TS3W_2320 Bay S2 - 3 TS3W_2330 Bay S2 - 3 TS3W_2330 Bay S2 - 3 TS3W_2330 Bay S2 - 3 TS3W_2330 Bay S2 - 3 TS3W_2330 Bay S2 - 3 TS3W_2330 Bay S2 - 3 TS3W_2330 Bay S2 - 3 TS3W_2330 Bay S2 - 3 TS3W_2330 Bay S2 - 3 TS3W_2330 Bay S2 - 3 TS3W_2330 Bay S2 - 3 TS3W_2330 Bay S2 - 3	 Spray Type Waterproofing, Protection Board & Backfilling 2 - Base Slab 2 - Wall 5 2 - Utility Trough 2 - OHVD Slab & Hanger Wall 2 - Roof Slab 	10d 42d 7d 7d 4d 11d	08-Aug-16 05-Jul-16 A 05-Jul-16 A 30-Jul-16 06-Aug-16	17-Aug-16 30-Aug-16 23-Jul-16 A 05-Aug-16				Bay 2	Concrete Si	rut & Remov	e SL 6,7,8						4
Bay N2 TS3W_2240 Bay N2 TS3W_2250 Bay N2 TS3W_2260 Bay N2 TS3W_2260 Bay N2 TS3W_2270 Bay N2 TS3W_2270 Bay N2 TS3W_2280 Bay N2 Bay S2 TS3W_2290 TS3W_2290 Bay S2 TS3W_2300 Bay S2 TS3W_2310 Bay S2 TS3W_2330 Bay S2	2 - Base Slab 2 - Wall 5 2 - Utility Trough 2 - OHVD Slab & Hanger Wall 2 - Roof Slab	42d 7d 7d 4d 11d	05-Jul-16 A 05-Jul-16 A 30-Jul-16 06-Aug-16	30-Aug-16 23-Jul-16 A 05-Aug-16												•	
Bay N2 TS3W_2240 Bay N2 TS3W_2250 Bay N2 TS3W_2260 Bay N2 TS3W_2260 Bay N2 TS3W_2270 Bay N2 TS3W_2270 Bay N2 TS3W_2280 Bay N2 Bay S2 TS3W_2290 TS3W_2290 Bay S2 TS3W_2300 Bay S2 TS3W_2310 Bay S2 TS3W_2330 Bay S2	2 - Base Slab 2 - Wall 5 2 - Utility Trough 2 - OHVD Slab & Hanger Wall 2 - Roof Slab	7d 7d 4d 11d	05-Jul-16 A 30-Jul-16 06-Aug-16	23-Jul-16 A 05-Aug-16							Ba	y 2 - Spray Ty	pe Waterpr	roofing, Protectic	, Board & Bad	kfilling;	
TS3W_2240 Bay N2 TS3W_2250 Bay N2 TS3W_2260 Bay N2 TS3W_2260 Bay N2 TS3W_2270 Bay N2 TS3W_2280 Bay N2 TS3W_2280 Bay N2 TS3W_2280 Bay N2 TS3W_2280 Bay S2 TS3W_2300 Bay S2 TS3W_2310 Bay S2 TS3W_2320 Bay S2 TS3W_2330 Bay S2	2 - Wall 5 2 - Utility Trough 2 - OHVD Slab & Hanger Wall 2 - Roof Slab	7d 4d 11d	30-Jul-16 06-Aug-16	23-Jul-16 A 05-Aug-16						1 1 1 1	 				1 1 1	-	
TS3W_2260 Bay N2 TS3W_2270 Bay N2 TS3W_2280 Bay N2 Bay S2 TS3W_2290 TS3W_2290 Bay S2 TS3W_2300 Bay S2 TS3W_2310 Bay S2 TS3W_2310 Bay S2 TS3W_2330 Bay S2	2 - Utility Trough 2 - OHVD Slab & Hanger Wall 2 - Roof Slab	4d 11d	06-Aug-16					Bay N2 - Base	e Slab	1 1 1 1							
TS3W_2270 Bay N2 TS3W_2280 Bay N2 TS3W_2280 Bay N2 Bay S2 Say S2 TS3W_2300 Bay S2 TS3W_2310 Bay S2 TS3W_2320 Bay S2 TS3W_2320 Bay S2 TS3W_2320 Bay S2 TS3W_2330 Bay S2	2 - OHVD Slab & Hanger Wall 2 - Roof Slab	11d	-	09-Aug-16						Bay N2 - Wa	5						
TS3W_2280 Bay N2 Bay S2 Say S2 TS3W_2290 Bay S2 TS3W_2300 Bay S2 TS3W_2310 Bay S2 TS3W_2310 Bay S2 TS3W_2320 Bay S2 TS3W_2330 Bay S2	2 - Roof Slab		10-Aua-16							Bay N	¦ l2 - Utility Tro	bugh					
Bay S2 TS3W_2290 Bay S2 - TS3W_2300 Bay S2 - TS3W_2310 Bay S2 - TS3W_2310 Bay S2 - TS3W_2320 Bay S2 - TS3W_2320 Bay S2 - TS3W_2330 Bay S2 -		10d		20-Aug-16								Bay N2 - C	HVD Slab	& Hanger Wall			
Bay S2 TS3W_2290 Bay S2 - TS3W_2300 Bay S2 - TS3W_2310 Bay S2 - TS3W_2310 Bay S2 - TS3W_2320 Bay S2 - TS3W_2320 Bay S2 - TS3W_2330 Bay S2 -			21-Aug-16	30-Aug-16	-					1 1 1 1				ay N2 - Roof Slat	p¦	-	
TS3W_2300 Bay S2 TS3W_2310 Bay S2 TS3W_2320 Bay S2 TS3W_2320 Bay S2 TS3W_2330 Bay S2 Zone E2 Bay 3 TS3W_2340 Bay 3		41d	28-Jun-16 A	01-Sep-16						1 1 1 1					1 1 1		
TS3W_2310 Bay S2 - TS3W_2320 Bay S2 - TS3W_2330 Bay S2 - Zone E2 Bay 3 TS3W_2340 Bay 3 -	2 - Base Slab	7d	28-Jun-16 A	16-Jul-16 A		Bay	S2 - Base	e Slab									
TS3W_2320 Bay S2 - TS3W_2330 Bay S2 - Zone E2 Bay 3 TS3W_2340 Bay 3 -	2 - Wall 6	7d	01-Aug-16	07-Aug-16						Bay S2 -	Wall 6						
TS3W_2330 Bay S2 Zone E2 Bay 3 TS3W_2340 Bay 3 - V	2 - Utility Trough	4d	08-Aug-16	11-Aug-16						е в	ay S2 - Utility	Trough				j J	
Zone E2 Bay 3 TS3W_2340 Bay 3 - 1	2 - OHVD Slab & Hanger Wall	11d	12-Aug-16	22-Aug-16								Bay S2	OHVDS	lab & Hanger W	aļl		
Bay 3 TS3W_2340 Bay 3 - V	2 - Roof Slab	10d	23-Aug-16	01-Sep-16						1 1 1 1				Bay S2 - Roof	Slab		
TS3W_2340 Bay 3 - V		55d	08-Jul-16 A	12-Sep-16						1 1 1 1	1				1 1 1		
		55d	08-Jul-16 A	12-Sep-16						1 1 1 1	 				1 1 1		
TS3W_2350 Bay 3 -	- Waterproofing	3d	08-Jul-16 A	13-Jul-16 A		Bay 3:- Wa	terproof	ng		1 1 1 1						j. I	
	- Concrete Strut & Remove SL 6,7,8	7d	31-Jul-16	06-Aug-16						Bay3-Co	ncrete Strut	&Remove SL	6,7,8		-		
TS3W_2360 Bay 3 -	- Spray Type Waterproofing, Protection Board & Backfilling	10d	19-Aug-16	28-Aug-16									Bay 3	- Spray Type W	aterproofing, P	rotection Boa	rd & Back
Bay N3			13-Jul-16 A	10-Sep-16						1 1 1 1	- - -				1 1 1	; ;	
TS3W_2370 Bay N3	3 - Base Slab	7d	13-Jul-16 A	30-Jul-16					Bay N3 - Ba	se Slab						J.	
TS3W_2380 Bay N3	3 - Wall 5	7d	10-Aug-16	16-Aug-16							Bay	N3 - Wall 5				j I	1
TS3W_2390 Bay N3 -	3 - Utility Trough	4d	17-Aug-16	20-Aug-16	-					1 1 1 1		Bay N3 - U	Itility Trough	1			
TS3W_2400 Bay N3	3 - OHVD Slab & Hanger Wall	11d	21-Aug-16	31-Aug-16	_					1 1 1 1				Bay N3 - OHVD	¦ \$lab & Hanger	Wall	
TS3W_2410 Bay N3	3 - Roof Slab	10d	01-Sep-16	10-Sep-16	-					1 1 1 1					Bay N3 - Ro	of Slab	
Bay S3		47d	10-Jul-16 A	12-Sep-16						1 1 1 1	 				1 1 1		
	3 - Base Slab	7d	10-Jul-16 A	26-Jul-16 A				Bay S3	Base Slab							- 	
TS3W_2430 Bay S3 -	3 - Wall 6	7d	12-Aug-16	18-Aug-16								Bay S3 - Wall	6			, , ,	
	3 - Utility Trough	4d	19-Aug-16	22-Aug-16						 		1	Utility Tro	ugh		;	4
		11d	23-Aug-16	02-Sep-16											VD Slab & Har	ger Wall	
	3 - OHVD Slab & Hanger Wall	10d	03-Sep-16	12-Sep-16												Roof Slab	
Zone W1		75d	10-Jul-16 A	26-Oct-16			-			1	1						
Bay 4	3 - OHVD Slab & Hanger Wall			07-Oct-16			1	: :				1					

	Actual Work	Page 2 of 10	Date	
	Remaining Work		20-Jul-16	Updated
國建菜工程(香港)有阻公司	Critical Remaining Work	Contract No. HY/2010/08: Central - Wanchai Bypass Tunnel +(Slip		
A STATE CONSTRUCTION ENGINEERING (HONG KONG) LTD.	♦ Milestone	Road 8 Section) - 3 Months Rolling Progamme		

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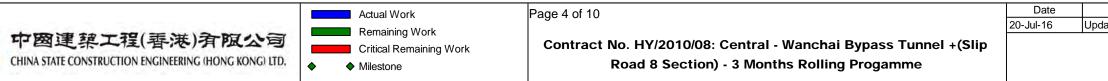
Sep		Oct		
N1 - OHVD Slab & Hanger Wa	-			
Bay N1 - Roof S				
S1 - OHVD Slab & Hanger Wa				
Bay S1 - Roof S	Blab			
& Backfilling				
ing, Protection Board & Backfi	lling			
anger Wall				
3 - Roof Slab				
& Hanger Wall				
y S3 - Roof Slab				
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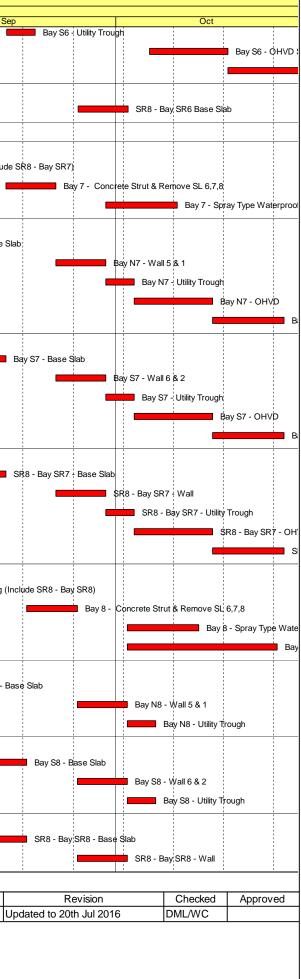
ty ID	Activity Name	Original Duration	Start	Finish				20	16		
TS3W_2470	D Bay 4 - Waterproofing	3d	10-Jul-16 A	20-Jul-16 A	Jul	Bay 4:- Waterproofi	ing Aug			Sep	+
TS3W_2480	0 Bay 4 - Concrete Strut & Remove SL 6,7,8	7d	24-Aug-16	31-Aug-16					Bay 4 - Concrete	Strut & Rem	o'v
TS3W_2490	Bay 4 - Spray Type Waterproofing, Protection Board & Backfilling	10d	12-Sep-16	22-Sep-16							÷
Bay N4		50d	16-Aug-16	05-Oct-16							+
	00 Bay N4 - Base Slab	7d	16-Aug-16	23-Aug-16				Bay N4 - Ba	ase Slab		
TS3W_261	0 Bay N4 - Wall 5	7d	03-Sep-16	10-Sep-16						Bay N4 - V	/a
TS3W_262	20 Bay N4 - Utility Trough	4d	10-Sep-16	14-Sep-16						Bay	y r
TS3W_263	Bay N4 - OHVD Slab & Hanger Wall	11d	14-Sep-16	25-Sep-16							÷
TS3W_264	40 Bay N4 - Roof Slab	10d	25-Sep-16	05-Oct-16							
Bay S4		48d	28-Jul-16 A	07-Oct-16							$\frac{1}{1}$
	50 Bay S4 - Base Slab	7d	28-Jul-16 A	24-Aug-16				Bay S4 -	Base Slab		
TS3W_266	50 Bay S4 - Wall 6	7d	05-Sep-16	12-Sep-16						Bay S4	++
TS3W_268	Bay S4 - Utility Trough	4d	12-Sep-16	16-Sep-16							B
TS3W_269	00 Bay S4 - OHVD Slab & Hanger Wall	11d	16-Sep-16	27-Sep-16							÷
TS3W_270	00 Bay S4 - Roof Slab	10d	27-Sep-16	07-Oct-16							
Bay 5		59d	28-Jul-16 A	10-Oct-16							+
TS3W_2710	D Bay 5 - Waterproofing	3d	28-Jul-16 A	15-Aug-16			Bay 5	- Waterproofing			
TS3W_2720	0 Bay 5 - Concrete Strut & Remove SL 6,7,8	7d	27-Aug-16	03-Sep-16					Bay 5 - Co	hcrete Strut &	3; F
TS3W_2730	Bay 5 - Spray Type Waterproofing, Protection Board & Backfilling	10d	15-Sep-16	25-Sep-16							÷
Bay N5		50d	19-Aug-16	08-Oct-16							
	40 Bay N5 - Base Slab	7d	19-Aug-16	26-Aug-16				Bay N	I5 - Base Slab		
TS3W_275	50 Bay N5 - Wall 5	7d	06-Sep-16	13-Sep-16						Bay I	V;5
TS3W_276	60 Bay N5 - Utility Trough	4d	13-Sep-16	17-Sep-16							
TS3W_277	70 Bay N5 - OHVD Slab & Hanger Wall	11d	17-Sep-16	28-Sep-16							-
TS3W_278	30 Bay N5 - Roof Slab	10d	28-Sep-16	08-Oct-16							
Bay S5		51d	20-Aug-16	10-Oct-16							
TS3W_279	00 Bay S5 - Base Slab	7d	20-Aug-16	27-Aug-16				Bay	S5 - Base Slab		
TS3W_280	00 Bay S5 - Wall 6	7d	08-Sep-16	15-Sep-16						B	ay
TS3W_281	0 Bay S5 - Utility Trough	4d	15-Sep-16	19-Sep-16						-	÷
TS3W_282	20 Bay S5 - OHVD Slab & Hanger Wall	11d	19-Sep-16	30-Sep-16							
TS3W_283	30 Bay S5 - Roof Slab	10d	30-Sep-16	10-Oct-16							
Bay 6		72d	15-Aug-16	26-Oct-16							+
	D Bay 6 - Waterproofing	3d	15-Aug-16	18-Aug-16				Bay 6 - Waterproofin	g		į
TS3W_2850	D Bay 6 - Concrete Strut & Remove SL 6,7,8	7d	27-Aug-16	03-Sep-16	-				Bay 6 - Co	oncrete Strut &	3 F
TS3W_2860	0 Bay 6 - Spray Type Waterproofing, Protection Board & Backfilling	10d	15-Sep-16	25-Sep-16						-	÷
Bay N6		66d	18-Aug-16	23-Oct-16							
	70 Bay N6 - Base Slab	7d	18-Aug-16	25-Aug-16				Bay N6	- Base Slab		
	30 Bay N6 - Wall 5	7d	06-Sep-16	13-Sep-16	1					Bay I	16
	00 Bay N6 - Utility Trough	4d	13-Sep-16	17-Sep-16							
	00 Bay N6 - OHVD Slab & Hanger Wall	11d	02-Oct-16	13-Oct-16							
	0 Bay N6 - Roof Slab	10d	13-Oct-16	23-Oct-16							
Bay S6		67d	20-Aug-16	26-Oct-16							
	20 Bay S6 - Base Slab	7d	20-Aug-16	27-Aug-16	1			Bay	S6 - Base Slab		
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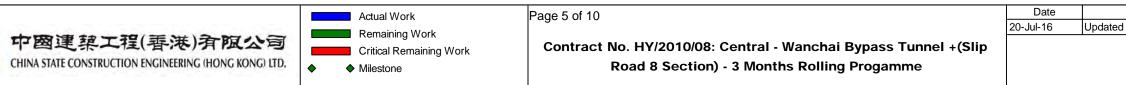
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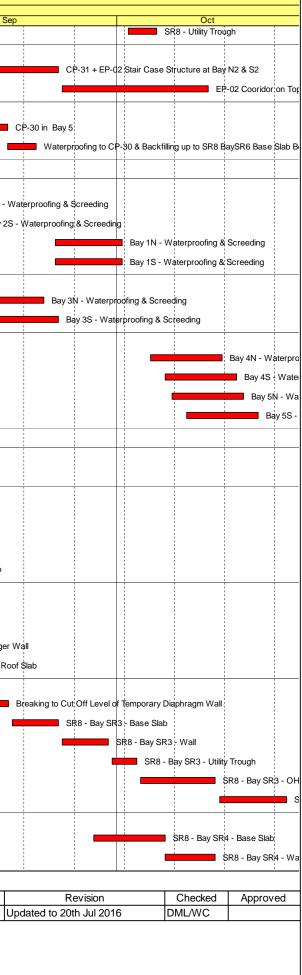
	Activity Name	Original Duration		Finish				20	16	
TC014/ 0040	Dec 00 Likite Terret			40.0-7.40	Jul		Aug			Sep
TS3W_2940	Bay S6 - Utility Trough	4d	15-Sep-16	19-Sep-16						
TS3W_2950	Bay S6 - OHVD Slab & Hanger Wall	11d	05-Oct-16	16-Oct-16						
TS3W_2960	Bay S6 - Roof Slab	10d	16-Oct-16	26-Oct-16						
Bay SR6		7d	25-Sep-16	02-Oct-16						
SR8_S_1250	SR8 - Bay SR6 Base Slab	7d	25-Sep-16	02-Oct-16						
one W2		58d	27-Aug-16	24-Oct-16						
ay 7		58d	27-Aug-16	24-Oct-16						
TS3W_3220	Bay 7 - Waterproofing (Include SR8 - Bay SR7)	3d	27-Aug-16	30-Aug-16				-	Bay 7 - W	aterproofing (Include SR
TS3W_3230	Bay 7 - Concrete Strut & Remove SL 6,7,8	7d	15-Sep-16	22-Sep-16						
TS3W_3240	Bay 7 - Spray Type Waterproofing, Protection Board & Backfilling	10d	29-Sep-16	09-Oct-16						
Bay N7		55d	30-Aug-16	24-Oct-16						
TS3W_3250	Bay N7 - Base Slab	7d	30-Aug-16	06-Sep-16						Bay N7 - Base Slab
TS3W_3260	Bay N7 - Wall 5 & 1	7d	22-Sep-16	29-Sep-16	-					
TS3W_3270	Bay N7 - Utility Trough	4d	29-Sep-16	03-Oct-16	-					
TS3W_3280	Bay N7 - OHVD	11d	03-Oct-16	14-Oct-16	-					
TS3W_3290	Bay N7 - Roof Slab	10d	14-Oct-16	24-Oct-16	_					
Bay S7		46d	08-Sep-16	24-Oct-16						
	Day S7 Dags Clab									
TS3W_3300	Bay S7 - Base Slab	7d	08-Sep-16	15-Sep-16						Bay
TS3W_3310	Bay S7 - Wall 6 & 2	7d	22-Sep-16	29-Sep-16	_					
TS3W_3320	Bay S7 - Utility Trough	4d	29-Sep-16	03-Oct-16						
TS3W_3330	Bay S7 - OHVD	11d	03-Oct-16	14-Oct-16						
	Day C7 Deaf Clab	10d	44 0 -+ 40	010110		- i i				
TS3W_3340	Bay S7 - Roof Slab	100	14-Oct-16	24-Oct-16						
ay SR7		46d	08-Sep-16	24-Oct-16						
ay SR7										SR8
Bay SR7 SR8_S_1300		46d	08-Sep-16	24-Oct-16						 SR8
Bay SR7 SR8_S_1300 SR8_S_1310	SR8 - Bay SR7 - Base Slab	46d 7d	08-Sep-16 08-Sep-16	24-Oct-16 15-Sep-16						Sria
Bay SR7 SR8_S_1300 SR8_S_1310 SR8_S_1320	SR8 - Bay SR7 - Base Slab SR8 - Bay SR7 - Wall	46d 7d 7d	08-Sep-16 08-Sep-16 22-Sep-16	24-Oct-16 15-Sep-16 29-Sep-16						SR8
Bay SR7 SR8_S_1300 SR8_S_1310 SR8_S_1320 SR8_S_1330	SR8 - Bay SR7 - Base Slab SR8 - Bay SR7 - Wall SR8 - Bay SR7 - Utility Trough	46d 7d 7d 4d	08-Sep-16 08-Sep-16 22-Sep-16 29-Sep-16	24-Oct-16 15-Sep-16 29-Sep-16 03-Oct-16						SR8
Bay SR7 SR8_S_1300 SR8_S_1310 SR8_S_1320 SR8_S_1330	SR8 - Bay SR7 - Base Slab SR8 - Bay SR7 - Wall SR8 - Bay SR7 - Utility Trough SR8 - Bay SR7 - OHVD	46d 7d 7d 4d 11d	08-Sep-16 08-Sep-16 22-Sep-16 29-Sep-16 03-Oct-16	24-Oct-16 15-Sep-16 29-Sep-16 03-Oct-16 14-Oct-16						SR8
Bay SR7 SR8_S_1300 SR8_S_1310 SR8_S_1320 SR8_S_1330 SR8_S_1340	SR8 - Bay SR7 - Base Slab SR8 - Bay SR7 - Wall SR8 - Bay SR7 - Utility Trough SR8 - Bay SR7 - OHVD	46d 7d 7d 4d 11d 10d	08-Sep-16 08-Sep-16 22-Sep-16 29-Sep-16 03-Oct-16 14-Oct-16	24-Oct-16 15-Sep-16 29-Sep-16 03-Oct-16 14-Oct-16 24-Oct-16					Bay	
Bay SR7 SR8_S_1300 SR8_S_1310 SR8_S_1320 SR8_S_1330 SR8_S_1340 sR8_S_1340	SR8 - Bay SR7 - Base Slab SR8 - Bay SR7 - Wall SR8 - Bay SR7 - Utility Trough SR8 - Bay SR7 - OHVD SR8 - Bay SR7 - Roof Slab	46d 7d 7d 4d 11d 10d 54d	08-Sep-16 08-Sep-16 22-Sep-16 29-Sep-16 03-Oct-16 14-Oct-16 30-Aug-16	24-Oct-16 15-Sep-16 29-Sep-16 03-Oct-16 14-Oct-16 24-Oct-16 23-Oct-16					Bay	
Bay SR7 SR8_S_1300 SR8_S_1310 SR8_S_1320 SR8_S_1320 SR8_S_1340 Bay 8 TS3W_3400	SR8 - Bay SR7 - Base Slab SR8 - Bay SR7 - Wall SR8 - Bay SR7 - Utility Trough SR8 - Bay SR7 - OHVD SR8 - Bay SR7 - Roof Slab Bay 8 - Waterproofing (Include SR8 - Bay SR8)	46d 7d 7d 4d 11d 10d 54d 3d	08-Sep-16 08-Sep-16 22-Sep-16 29-Sep-16 03-Oct-16 14-Oct-16 30-Aug-16 30-Aug-16	24-Oct-16 15-Sep-16 29-Sep-16 03-Oct-16 14-Oct-16 24-Oct-16 23-Oct-16 02-Sep-16					Bay	
Bay SR7 SR8_S_1300 SR8_S_1310 SR8_S_1320 SR8_S_1320 SR8_S_1330 SR8_S_1340 TS3W_3400 TS3W_3410	SR8 - Bay SR7 - Base Slab SR8 - Bay SR7 - Wall SR8 - Bay SR7 - Utility Trough SR8 - Bay SR7 - OHVD SR8 - Bay SR7 - Roof Slab Bay 8 - Waterproofing (Include SR8 - Bay SR8) Bay 8 - Concrete Strut & Remove SL 6,7,8	46d 7d 7d 4d 11d 10d 54d 3d 7d	08-Sep-16 08-Sep-16 22-Sep-16 29-Sep-16 03-Oct-16 14-Oct-16 30-Aug-16 30-Aug-16 18-Sep-16	24-Oct-16 15-Sep-16 29-Sep-16 03-Oct-16 14-Oct-16 24-Oct-16 23-Oct-16 02-Sep-16 25-Sep-16					Bay	
Bay SR7 SR8_S_1300 SR8_S_1310 SR8_S_1320 SR8_S_1320 SR8_S_1330 SR8_S_13400 TS3W_3400 TS3W_3410 TS3W_3420 TS3W_3430	SR8 - Bay SR7 - Base Slab SR8 - Bay SR7 - Wall SR8 - Bay SR7 - Utility Trough SR8 - Bay SR7 - OHVD SR8 - Bay SR7 - Roof Slab Bay 8 - Waterproofing (Include SR8 - Bay SR8) Bay 8 - Concrete Strut & Remove SL 6,7,8 Bay 8 - Spray Type Waterproofing, Protection Board & Backfilling	46d 7d 7d 4d 11d 10d 54d 3d 7d 10d 21d	08-Sep-16 08-Sep-16 22-Sep-16 29-Sep-16 03-Oct-16 14-Oct-16 30-Aug-16 30-Aug-16 18-Sep-16 02-Oct-16 02-Oct-16	24-Oct-16 15-Sep-16 29-Sep-16 03-Oct-16 14-Oct-16 23-Oct-16 02-Sep-16 02-Sep-16 12-Oct-16 25-Sep-16 12-Oct-16 23-Oct-16					Bay	
Bay SR7 SR8_S_1300 SR8_S_1320 SR8_S_1320 SR8_S_1320 SR8_S_1340 SR8_S_1340 Gay 8 TS3W_3400 TS3W_3410 TS3W_3420 TS3W_3430 Bay N8	SR8 - Bay SR7 - Base Slab SR8 - Bay SR7 - Wall SR8 - Bay SR7 - Utility Trough SR8 - Bay SR7 - OHVD SR8 - Bay SR7 - Roof Slab Bay 8 - Waterproofing (Include SR8 - Bay SR8) Bay 8 - Concrete Strut & Remove SL 6,7,8 Bay 8 - Spray Type Waterproofing, Protection Board & Backfilling Bay 8 - Break Trough Bulkhead Bay 8N, 8S & SR8	46d 7d 7d 4d 11d 10d 54d 3d 7d 10d 21d 34d	08-Sep-16 08-Sep-16 22-Sep-16 29-Sep-16 03-Oct-16 14-Oct-16 30-Aug-16 30-Aug-16 18-Sep-16 02-Oct-16 02-Oct-16 02-Sep-16	24-Oct-16 15-Sep-16 29-Sep-16 03-Oct-16 14-Oct-16 24-Oct-16 23-Oct-16 02-Sep-16 12-Oct-16 23-Oct-16 06-Oct-16					Bay	r 8 - Waterproofing (Inclu
Bay SR7 SR8_S_1300 SR8_S_1310 SR8_S_1320 SR8_S_1320 SR8_S_1320 SR8_S_1340 TS3W_3400 TS3W_3410 TS3W_3420 TS3W_3430 Bay N8 TS3W_3440	SR8 - Bay SR7 - Base Slab SR8 - Bay SR7 - Wall SR8 - Bay SR7 - Utility Trough SR8 - Bay SR7 - OHVD SR8 - Bay SR7 - Roof Slab Bay 8 - Waterproofing (Include SR8 - Bay SR8) Bay 8 - Concrete Strut & Remove SL 6,7,8 Bay 8 - Concrete Strut & Remove SL 6,7,8 Bay 8 - Spray Type Waterproofing, Protection Board & Backfilling Bay 8 - Break Trough Bulkhead Bay 8N, 8S & SR8 Bay N8 - Base Slab	46d 7d 7d 4d 11d 10d 54d 3d 7d 10d 54d 3d 7d 3dd 7d 10d 21d 34d 7d	08-Sep-16 08-Sep-16 22-Sep-16 29-Sep-16 03-Oct-16 14-Oct-16 30-Aug-16 30-Aug-16 02-Oct-16 02-Oct-16 02-Oct-16 02-Oct-16 02-Sep-16 02-Sep-16	24-Oct-16 15-Sep-16 29-Sep-16 03-Oct-16 14-Oct-16 24-Oct-16 23-Oct-16 02-Sep-16 12-Oct-16 23-Oct-16 02-Sep-16 12-Oct-16 03-Oct-16 04-Oct-16 05-Sep-16 12-Oct-16 06-Oct-16 09-Sep-16					Bay	r 8 - Waterproofing (Inclu
Bay SR7 SR8_S_1300 SR8_S_1310 SR8_S_1320 SR8_S_1320 SR8_S_1330 SR8_S_1340 TS3W_3400 TS3W_3410 TS3W_3420 TS3W_3430 Bay N8 TS3W_3440 TS3W_3450	SR8 - Bay SR7 - Base Slab SR8 - Bay SR7 - Wall SR8 - Bay SR7 - Utility Trough SR8 - Bay SR7 - OHVD SR8 - Bay SR7 - Roof Slab Bay 8 - Waterproofing (Include SR8 - Bay SR8) Bay 8 - Concrete Strut & Remove SL 6,7,8 Bay 8 - Spray Type Waterproofing, Protection Board & Backfilling Bay 8 - Break Trough Bulkhead Bay 8N, 8S & SR8 Bay N8 - Base Slab Bay N8 - Wall 5 & 1	46d 7d 7d 4d 11d 10d 54d 3d 7d 10d 54d 3d 7d 10d 54d 3d 7d 10d 21d 34d 7d 7d	08-Sep-16 08-Sep-16 22-Sep-16 29-Sep-16 03-Oct-16 14-Oct-16 30-Aug-16 18-Sep-16 02-Oct-16 02-Oct-16 02-Oct-16 02-Oct-16 02-Sep-16 25-Sep-16	24-Oct-16 15-Sep-16 29-Sep-16 03-Oct-16 14-Oct-16 24-Oct-16 23-Oct-16 02-Sep-16 12-Oct-16 23-Oct-16 02-Sep-16 09-Sep-16 09-Sep-16 02-Oct-16					Bay	r 8 - Waterproofing (Inclu
Bay SR7 SR8_S_1300 SR8_S_1310 SR8_S_1320 SR8_S_1320 SR8_S_1330 SR8_S_1340 TS3W_3400 TS3W_3400 TS3W_3420 TS3W_3420 TS3W_3420 TS3W_3450 TS3W_3450 TS3W_3460	SR8 - Bay SR7 - Base Slab SR8 - Bay SR7 - Wall SR8 - Bay SR7 - Utility Trough SR8 - Bay SR7 - OHVD SR8 - Bay SR7 - Roof Slab Bay 8 - Waterproofing (Include SR8 - Bay SR8) Bay 8 - Concrete Strut & Remove SL 6,7,8 Bay 8 - Concrete Strut & Remove SL 6,7,8 Bay 8 - Spray Type Waterproofing, Protection Board & Backfilling Bay 8 - Break Trough Bulkhead Bay 8N, 8S & SR8 Bay N8 - Base Slab	46d 7d 7d 4d 11d 10d 54d 3d 7d 10d 21d 34d 7d 7d 10d 7d 7d 7d 10d 21d 34d 7d 4d	08-Sep-16 08-Sep-16 22-Sep-16 29-Sep-16 03-Oct-16 14-Oct-16 30-Aug-16 30-Aug-16 02-Oct-16 02-Oct-16 02-Sep-16 02-Sep-16 02-Sep-16 02-Sep-16 02-Sep-16 02-Oct-16	24-Oct-16 15-Sep-16 29-Sep-16 03-Oct-16 14-Oct-16 24-Oct-16 23-Oct-16 02-Sep-16 12-Oct-16 23-Oct-16 09-Sep-16 09-Sep-16 02-Oct-16 09-Sep-16 02-Oct-16 06-Oct-16					Bay	r 8 - Waterproofing (Inclu
Bay SR7 SR8_S_1300 SR8_S_1310 SR8_S_1320 SR8_S_1320 SR8_S_1330 SR8_S_13400 TS3W_3400 TS3W_3410 TS3W_3430 Bay N8 TS3W_3440 TS3W_3440 TS3W_3450 TS3W_3450 TS3W_3450 TS3W_3450 TS3W_3450	SR8 - Bay SR7 - Base Slab SR8 - Bay SR7 - Wall SR8 - Bay SR7 - Utility Trough SR8 - Bay SR7 - OHVD SR8 - Bay SR7 - Roof Slab Bay 8 - Waterproofing (Include SR8 - Bay SR8) Bay 8 - Concrete Strut & Remove SL 6,7,8 Bay 8 - Spray Type Waterproofing, Protection Board & Backfilling Bay 8 - Spray Type Waterproofing, Protection Board & Backfilling Bay 8 - Break Trough Bulkhead Bay 8N, 8S & SR8 Bay N8 - Base Slab Bay N8 - Wall 5 & 1 Bay N8 - Utility Trough	46d 7d 7d 4d 11d 10d 54d 3d 7d 10d 21d 34d 7d 4d 21d 4d 4d 21d 4d 4d 21d 4d 25d	08-Sep-16 08-Sep-16 22-Sep-16 29-Sep-16 03-Oct-16 14-Oct-16 30-Aug-16 30-Aug-16 18-Sep-16 02-Oct-16 02-Sep-16 02-Sep-16 02-Oct-16 11-Sep-16	24-Oct-16 15-Sep-16 29-Sep-16 03-Oct-16 14-Oct-16 24-Oct-16 23-Oct-16 02-Sep-16 12-Oct-16 23-Oct-16 09-Sep-16					Bay	r 8 - Waterproofing (Inclu
Bay SR7 SR8_S_1300 SR8_S_1320 SR8_S_1320 SR8_S_1320 SR8_S_1340 SR8_S_1340 TS3W_3400 TS3W_3410 TS3W_3420 TS3W_3420 TS3W_3420 TS3W_3450 TS3W_3450 TS3W_3450 Bay S8 TS3W_3490	SR8 - Bay SR7 - Base Slab SR8 - Bay SR7 - Wall SR8 - Bay SR7 - Utility Trough SR8 - Bay SR7 - OHVD SR8 - Bay SR7 - Roof Slab Bay 8 - Waterproofing (Include SR8 - Bay SR8) Bay 8 - Concrete Strut & Remove SL 6,7,8 Bay 8 - Spray Type Waterproofing, Protection Board & Backfilling Bay 8 - Break Trough Bulkhead Bay 8N, 8S & SR8 Bay N8 - Base Slab Bay N8 - Wall 5 & 1 Bay S8 - Base Slab Bay S8 - Base Slab	46d 7d 7d 4d 11d 10d 54d 3d 7d 10d 21d 34d 7d 4d 21d 34d 7d 4d 21d 34d 7d	08-Sep-16 08-Sep-16 22-Sep-16 29-Sep-16 03-Oct-16 14-Oct-16 30-Aug-16 30-Aug-16 02-Oct-16 02-Oct-16 02-Sep-16 02-Sep-16 02-Oct-16 11-Sep-16 11-Sep-16	24-Oct-16 15-Sep-16 29-Sep-16 03-Oct-16 14-Oct-16 24-Oct-16 24-Oct-16 25-Sep-16 12-Oct-16 06-Oct-16 09-Sep-16 02-Oct-16 06-Oct-16 06-Oct-16 06-Oct-16 18-Sep-16					Bay	r 8 - Waterproofing (Inclu
Bay SR7 SR8_S_1300 SR8_S_1310 SR8_S_1320 SR8_S_1320 SR8_S_1320 SR8_S_1320 TS3W_3400 TS3W_3400 TS3W_3420 TS3W_3420 TS3W_3420 TS3W_3450 TS3W_3450 TS3W_3460 Bay S8 TS3W_3490 TS3W_3500	SR8 - Bay SR7 - Base Slab SR8 - Bay SR7 - Wall SR8 - Bay SR7 - Utility Trough SR8 - Bay SR7 - OHVD SR8 - Bay SR7 - Roof Slab Bay 8 - Waterproofing (Include SR8 - Bay SR8) Bay 8 - Concrete Strut & Remove SL 6,7,8 Bay 8 - Spray Type Waterproofing, Protection Board & Backfilling Bay 8 - Spray Type Waterproofing, Protection Board & Backfilling Bay 8 - Break Trough Bulkhead Bay 8N, 8S & SR8 Bay N8 - Base Slab Bay N8 - Wall 5 & 1 Bay S8 - Base Slab Bay S8 - Base Slab	46d 7d 7d 4d 11d 10d 54d 3d 7d 10d 54d 3d 7d 3d 7d 10d 21d 34d 7d 4d 21d 34d 7d 4d 25d 7d 7d 7d	08-Sep-16 08-Sep-16 22-Sep-16 29-Sep-16 03-Oct-16 14-Oct-16 30-Aug-16 30-Aug-16 02-Oct-16 02-Oct-16 02-Oct-16 02-Oct-16 02-Sep-16 02-Sep-16 11-Sep-16 11-Sep-16 25-Sep-16	24-Oct-16 15-Sep-16 29-Sep-16 03-Oct-16 14-Oct-16 24-Oct-16 25-Sep-16 12-Oct-16 23-Oct-16 02-Sep-16 12-Oct-16 06-Oct-16 09-Sep-16 02-Oct-16 06-Oct-16 06-Oct-16 06-Oct-16 06-Oct-16 06-Oct-16 06-Oct-16 06-Oct-16 06-Oct-16					Bay	r 8 - Waterproofing (Inclu
Bay SR7 SR8_S_1300 SR8_S_1320 SR8_S_1320 SR8_S_1320 SR8_S_1340 SR8_S_1340 TS3W_3400 TS3W_3410 TS3W_3420 TS3W_3420 TS3W_3420 TS3W_3450 TS3W_3450 TS3W_3450 Bay S8 TS3W_3490	SR8 - Bay SR7 - Base Slab SR8 - Bay SR7 - Wall SR8 - Bay SR7 - Utility Trough SR8 - Bay SR7 - OHVD SR8 - Bay SR7 - Roof Slab Bay 8 - Waterproofing (Include SR8 - Bay SR8) Bay 8 - Concrete Strut & Remove SL 6,7,8 Bay 8 - Spray Type Waterproofing, Protection Board & Backfilling Bay 8 - Break Trough Bulkhead Bay 8N, 8S & SR8 Bay N8 - Base Slab Bay N8 - Wall 5 & 1 Bay S8 - Base Slab Bay S8 - Base Slab	46d 7d 7d 4d 11d 10d 54d 3d 7d 10d 21d 34d 7d 4d 21d 34d 7d 4d 21d 34d 7d	08-Sep-16 08-Sep-16 22-Sep-16 29-Sep-16 03-Oct-16 14-Oct-16 30-Aug-16 30-Aug-16 02-Oct-16 02-Oct-16 02-Sep-16 02-Sep-16 02-Oct-16 11-Sep-16 11-Sep-16	24-Oct-16 15-Sep-16 29-Sep-16 03-Oct-16 14-Oct-16 24-Oct-16 23-Oct-16 02-Sep-16 25-Sep-16 12-Oct-16 09-Sep-16 09-Sep-16 09-Sep-16 02-Oct-16 06-Oct-16 06-Oct-16 06-Oct-16 02-Oct-16 02-Oct-16 06-Oct-16 02-Oct-16					Bay	r 8 - Waterproofing (Inclu
Bay SR7 SR8_S_1300 SR8_S_1310 SR8_S_1320 SR8_S_1320 SR8_S_1320 SR8_S_1340 TS3W_3400 TS3W_3410 TS3W_3420 TS3W_3420 TS3W_3450 TS3W_3450 TS3W_3460 Bay S8 TS3W_3490 TS3W_3500	SR8 - Bay SR7 - Base Slab SR8 - Bay SR7 - Wall SR8 - Bay SR7 - Utility Trough SR8 - Bay SR7 - OHVD SR8 - Bay SR7 - Roof Slab Bay 8 - Waterproofing (Include SR8 - Bay SR8) Bay 8 - Concrete Strut & Remove SL 6,7,8 Bay 8 - Spray Type Waterproofing, Protection Board & Backfilling Bay 8 - Spray Type Waterproofing, Protection Board & Backfilling Bay 8 - Break Trough Bulkhead Bay 8N, 8S & SR8 Bay N8 - Base Slab Bay N8 - Wall 5 & 1 Bay S8 - Base Slab Bay S8 - Base Slab	46d 7d 7d 4d 11d 10d 54d 3d 7d 10d 54d 3d 7d 3d 7d 10d 21d 34d 7d 4d 21d 34d 7d 4d 25d 7d 7d 7d	08-Sep-16 08-Sep-16 22-Sep-16 29-Sep-16 03-Oct-16 14-Oct-16 30-Aug-16 30-Aug-16 02-Oct-16 02-Oct-16 02-Oct-16 02-Oct-16 02-Sep-16 02-Sep-16 11-Sep-16 11-Sep-16 25-Sep-16	24-Oct-16 15-Sep-16 29-Sep-16 03-Oct-16 14-Oct-16 24-Oct-16 25-Sep-16 12-Oct-16 23-Oct-16 02-Sep-16 12-Oct-16 06-Oct-16 09-Sep-16 02-Oct-16 06-Oct-16 06-Oct-16 06-Oct-16 06-Oct-16 06-Oct-16 06-Oct-16 06-Oct-16 06-Oct-16					Bay	/ 8 - Waterproofing (Includ
Bay SR7 SR8_S_1300 SR8_S_1320 SR8_S_1340 TS3W_3400 TS3W_3420 TS3W_3420 TS3W_3430 Bay N8 TS3W_3450 TS3W_3450	SR8 - Bay SR7 - Base Slab SR8 - Bay SR7 - Wall SR8 - Bay SR7 - Utility Trough SR8 - Bay SR7 - OHVD SR8 - Bay SR7 - Roof Slab Bay 8 - Waterproofing (Include SR8 - Bay SR8) Bay 8 - Concrete Strut & Remove SL 6,7,8 Bay 8 - Spray Type Waterproofing, Protection Board & Backfilling Bay 8 - Spray Type Waterproofing, Protection Board & Backfilling Bay 8 - Break Trough Bulkhead Bay 8N, 8S & SR8 Bay N8 - Base Slab Bay N8 - Wall 5 & 1 Bay S8 - Base Slab Bay S8 - Base Slab Bay S8 - Wall 6 & 2 Bay S8 - Utility Trough	46d 7d 7d 17d 4d 11d 10d 54d 3d 7d 10d 21d 34d 7d 4d 21d 34d 7d 4d 7d 7d 7d 7d 4d 25d 25d	08-Sep-16 08-Sep-16 22-Sep-16 29-Sep-16 03-Oct-16 14-Oct-16 30-Aug-16 30-Aug-16 02-Oct-16 02-Oct-16 02-Oct-16 02-Sep-16 02-Sep-16 13-Sep-16 02-Sep-16 02-Sep-16 02-Sep-16 02-Sep-16 02-Sep-16 02-Sep-16 02-Sep-16 02-Oct-16	24-Oct-16 15-Sep-16 29-Sep-16 03-Oct-16 14-Oct-16 24-Oct-16 23-Oct-16 02-Sep-16 25-Sep-16 12-Oct-16 09-Sep-16 09-Sep-16 09-Sep-16 02-Oct-16 06-Oct-16 06-Oct-16 06-Oct-16 02-Oct-16 02-Oct-16 06-Oct-16 02-Oct-16					Bay	r 8 - Waterproofing (Includ



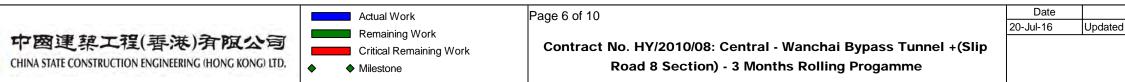


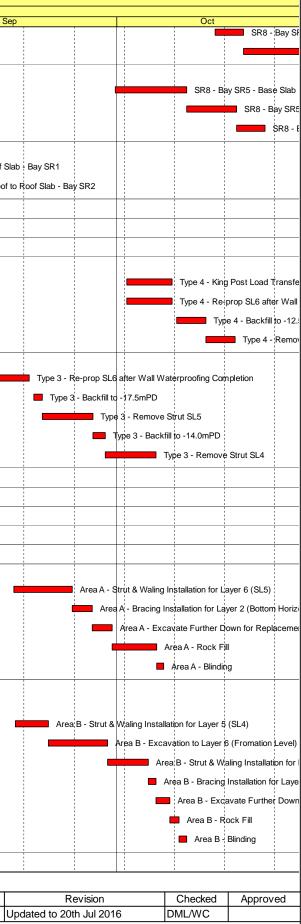
Activity ID	Activity Name	Original Duration		Finish	2016
SD0 S 1070	CD2 Hitthe Trough			06 Oct 16	Jul Aug Sep
	SR8 - Utility Trough	4d	02-Oct-16	06-Oct-16	
	(EP-02) & Cross Passage (CP31)	42d	02-Sep-16	13-Oct-16	
TS3W_3680	CP-31 + EP-02 Stair Case Structure at Bay N2 & S2	21d	02-Sep-16	22-Sep-16	
TS3W_3690	EP-02 Cooridor on Top of S2 & S3 Roof	21d	23-Sep-16	13-Oct-16	
	(EP-03) & Cross Passage (CP-30)	11d	08-Sep-16	19-Sep-16	
TS3W_3700	CP-30 in Bay 5	7d	08-Sep-16	15-Sep-16	
TS3W_3710	Waterproofing to CP-30 & Backfilling up to SR8 BaySR6 Base Slab Bottom	4d	15-Sep-16	19-Sep-16	
	PRoof & Screeding	51d	31-Aug-16	20-Oct-16	
Zone E1 (Bay 1		32d	31-Aug-16	01-Oct-16	
TS3W_3760	Bay 2N - Waterproofing & Screeding	10d	31-Aug-16	09-Sep-16	
TS3W_3770	Bay 2S - Waterproofing & Screeding	10d	02-Sep-16	11-Sep-16	
TS3W_3740	Bay 1N - Waterproofing & Screeding	10d	22-Sep-16	01-Oct-16	j
TS3W_3750	Bay 1S - Waterproofing & Screeding	10d	22-Sep-16	01-Oct-16	
Zone E2 (Bay 3)		12d	11-Sep-16	22-Sep-16	
TS3W_3780	Bay 3N - Waterproofing & Screeding	10d	11-Sep-16	20-Sep-16	5
TS3W_3790	Bay 3S - Waterproofing & Screeding	10d	13-Sep-16	22-Sep-16	3
Zone W1 (Bay 4	to Bay 6)	15d	05-Oct-16	20-Oct-16	
TS3W_3800	Bay 4N - Waterproofing & Screeding	10d	05-Oct-16	15-Oct-16	
TS3W_3810	Bay 4S - Waterproofing & Screeding	10d	07-Oct-16	17-Oct-16	
TS3W_3820	Bay 5N - Waterproofing & Screeding	10d	08-Oct-16	18-Oct-16	j
TS3W_3830	Bay 5S - Waterproofing & Screeding	10d	10-Oct-16	20-Oct-16	3
SR8 Tunnel		102d	20-Jul-16	29-Oct-16	
Waterfroofing to	Base Slab	10d	20-Jul-16	29-Jul-16	
SR8_S_1000	Waterproof to Base Slab - Bay SR1 to SR3A	10d	20-Jul-16	29-Jul-16	Waterproof to Base Slab - Bay SR1 to SR3A
Bay SR1		32d	30-Jul-16	30-Aug-16	3
SR8_S_1010	SR8 - Bay SR1 - Base Slab	7d	30-Jul-16	05-Aug-16	6 SR8 - Bay SR1 - Base Slab
SR8_S_1020	SR8 - Bay SR1 - Utility Trough	4d	06-Aug-16	09-Aug-16	6 SR8 - Bay SR1 - Utility Trough
SR8_S_1030	SR8 - Bay SR1 - OHVD Slab & Hanger Wall	11d	10-Aug-16	20-Aug-16	6 SR8 - Bay SR1 - OHVD Slab & Hanger Wall
SR8_S_1040	SR8 - Bay SR1 - Roof Slab	10d	21-Aug-16	30-Aug-16	6 SR8 - Bay SR1 - Roof Slab
Bay SR2		32d	04-Aug-16	04-Sep-16	3
SR8_S_1050	SR8 - Bay SR2 - Base Slab	7d	04-Aug-16	10-Aug-16	6 SR8 - Bay SR2 - Base Slab
SR8_S_1060	SR8 - Bay SR2 - Utility Trough	4d	11-Aug-16	14-Aug-16	6 SR8 - Bay SR2 - Utility Trough
SR8_S_1070	SR8 - Bay SR2 - OHVD Slab & Hanger Wall	11d	15-Aug-16	25-Aug-16	
SR8_S_1080	SR8 - Bay SR2 - Roof Slab	10d	26-Aug-16	04-Sep-16	
Bay SR3 (Part W		42d	13-Sep-16	24-Oct-16	
SR8_S_1090	Breaking to Cut Off Level of Temporary Diaphragm Wall	3d	13-Sep-16	15-Sep-16	6 Break and a second seco
SR8_S_1100	SR8 - Bay SR3 - Base Slab	7d	16-Sep-16	22-Sep-16	
SR8_S_1110	SR8 - Bay SR3 - Wall	7d	23-Sep-16	29-Sep-16	
SR8_S_1120	SR8 - Bay SR3 - Utility Trough	4d	30-Sep-16	03-Oct-16	
SR8_S_1130	SR8 - Bay SR3 - OHVD Slab & Hanger Wall	11d	04-Oct-16	14-Oct-16	
SR8_S_1140	SR8 - Bay SR3 - Roof Slab	10d	15-Oct-16	24-Oct-16	
Bay SR4 (Within		32d	27-Sep-16	29-Oct-16	
SR8_S_1150	SR8 - Bay SR4 - Base Slab	10d	27-Sep-16	07-Oct-16	
SR8_S_1160	SR8 - Bay SR4 - Wall	7d	07-Oct-16	14-Oct-16	
SILO_3_1100		70	01-001-10	14-061-10	



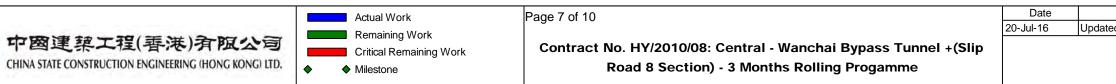


Activity ID	Activity Name	Original	Start	Finish								
		Duration				Jul		Aug	2016			Sep
SR8_S_1170	SR8 - Bay SR4 - Utility Trough	4d	14-Oct-16	18-Oct-16								
SR8_S_1180	SR8 - Bay SR4 - OHVD Slab & Hanger Wall	11d	18-Oct-16	29-Oct-16								
Bay SR5 (Within	Zone W1)	21d	30-Sep-16	21-Oct-16							1	
SR8_S_1200	SR8 - Bay SR5 - Base Slab	10d	30-Sep-16	10-Oct-16								
SR8_S_1210	SR8 - Bay SR5 - Wall	7d	10-Oct-16	17-Oct-16								
SR8_S_1220	SR8 - Bay SR5 - Utility Trough	4d	17-Oct-16	21-Oct-16								
Waterproofing to	Roof Slab	9d	31-Aug-16	08-Sep-16							1	
SR8_S_1400	Waterproof to Roof Slab - Bay SR1	4d	31-Aug-16	03-Sep-16					-	— w	aterproof	to Roof Slab
SR8_S_1410	Waterproof to Roof Slab - Bay SR2	4d	05-Sep-16	08-Sep-16							Wa	aterproof to F
Works in KD8		35d	12-Sep-16	17-Oct-16								
Removal of Tempo	rary Reclamation at TS3W	35d	12-Sep-16	17-Oct-16								
Preparation Works		35d	12-Sep-16	17-Oct-16								
Zone Type 4		15d	02-Oct-16	17-Oct-16								
TS3W_4510	Type 4 - King Post Load Transfer to Roof Slab	7d	02-Oct-16	08-Oct-16								
TS3W_4520	Type 4 - Re-prop SL6 after Wall Waterproofing Completion	7d	02-Oct-16	08-Oct-16								
TS3W_4530	Type 4 - Backfill to -12.5mPD	4d	09-Oct-16	13-Oct-16								
TS3W_4540	Type 4 - Remove Strut SL4	4d	13-Oct-16	17-Oct-16								
Zone Type 3		24d	12-Sep-16	06-Oct-16								
TS3W_4560	Type 3 - Re-prop SL6 after Wall Waterproofing Completion	7d	12-Sep-16	18-Sep-16								;
TS3W_4570	Type 3 - Backfill to -17.5mPD	2d	19-Sep-16	20-Sep-16	-							
TS3W_4580	Type 3 - Remove Strut SL5	7d	20-Sep-16	27-Sep-16								
TS3W_4590	Type 3 - Backfill to -14.0mPD	2d	27-Sep-16	29-Sep-16								
TS3W_4600	Type 3 - Remove Strut SL4	7d	29-Sep-16	06-Oct-16								
Works in KD6		190d	19-Apr-16 A	25-Oct-16								
Works in SR8 (Ope	en Cut Method)	190d	19-Apr-16 A	25-Oct-16					 			
	Cut & Cover Tunnel Works	190d	19-Apr-16 A	25-Oct-16								
SR8 (Zone C) - Ch	. 528 to Ch. 368	86d	15-Jun-16 A	25-Oct-16					 			
ELS - Excavation	& Struts Installation	71d	15-Jun-16 A	10-Oct-16								
Area A (CH384 to	o CH462) / (78m) - Victoria Park to Steel Deck WB + IEC)	21d	16-Sep-16	07-Oct-16					 			
	Area A - Strut & Waling Installation for Layer 6 (SL5)	8d	16-Sep-16*	24-Sep-16								. =
	Area A - Bracing Installation for Layer 2 (Bottom Horizontal & Diagonal)	3d	24-Sep-16	27-Sep-16	-							
	Area A - Excavate Further Down for Replacement of Rock Fill	3d	27-Sep-16	30-Sep-16								
	Area A - Rock Fill	6d	30-Sep-16	06-Oct-16								
	Area A - Blinding	1d	06-Oct-16	07-Oct-16								
	o Ch.525) / (63m) - IEC + Steel Deck EB + SR8/TS3 Interface	71d	15-Jun-16 A	10-Oct-16								
· · · · · · · · · · · · · · · · · · ·	Area B - Excavation to Layer 5	4d	15-Jun-16 A	21-Jun-16 A	iyer 5							
	Area B - Strut & Waling Installation for Layer 5 (SL4)	4d	16-Sep-16*	21-Sep-16	,							
	Area B - Excavation to Layer 6 (Fromation Level)	9d	21-Sep-16	29-Sep-16								
	Area B - Strut & Waling Installation for Layer 6 (SL5)	5d	29-Sep-16	05-Oct-16								
	Area B - Bracing Installation for Layer 2 (Bottom Horizontal & Diagonal)	1d	05-Oct-16	06-Oct-16	-							
	Area B - Excavate Further Down for Replacement of Rock Fill	2d	06-Oct-16	08-Oct-16								
	Area B - Rock Fill	2d 2d	08-Oct-16	09-Oct-16	-							
	Area B - Rock Fill Area B - Blinding	2d 1d	09-Oct-16	10-Oct-16								
Tunnel Structure			07-Oct-16	25-Oct-16					 			
Tunner Structure		18d	07-001-16	23-001-16								

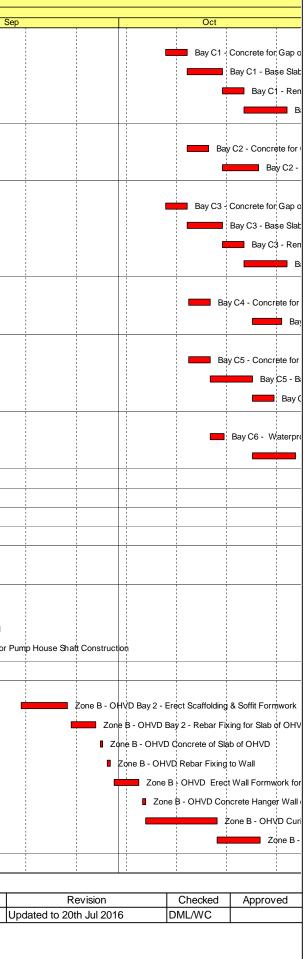




Activity ID	Activity Name	Original		Finish	2016								
		Duration	1		Jul			Aug		2016			Sep
Bay C1		17d	07-Oct-16	24-Oct-16									
SR8_ZC_143	30 Bay C1 - Concrete for Gap of Base Slab & Waterproofing	3d	07-Oct-16	10-Oct-16									
SR8_ZC_144	40 Bay C1 - Base Slab & Drinage Pipe	5d	10-Oct-16	15-Oct-16									
SR8_ZC_14	50 Bay C1 - Remove Strut SL5	3d	15-Oct-16	18-Oct-16									
SR8_ZC_146	Bay C1 - Install T-Grid Waterproofing for Wall & Vertical Blinding	6d	18-Oct-16	24-Oct-16									
Bay C2		10d	10-Oct-16	20-Oct-16									
SR8_ZC_157	70 Bay C2 - Concrete for Gap of Base Slab & Waterproofing	3d	10-Oct-16	13-Oct-16									
SR8_ZC_158	80 Bay C2 - Base Slab & Drinage Pipe	5d	15-Oct-16	20-Oct-16									
Bay C3		17d	07-Oct-16	24-Oct-16									
SR8_ZC_17	10 Bay C3 - Concrete for Gap of Base Slab & Waterproofing	3d	07-Oct-16	10-Oct-16									
SR8_ZC_172	20 Bay C3 - Base Slab & Drinage Pipe	5d	10-Oct-16	15-Oct-16									
SR8_ZC_173	30 Bay C3 - Remove Strut SL5	3d	15-Oct-16	18-Oct-16									
SR8_ZC_174	40 Bay C3 - Install T-Grid Waterproofing for Wall & Vertical Blinding	6d	18-Oct-16	24-Oct-16									
Bay C4		13d	10-Oct-16	23-Oct-16									
SR8_ZC_185	50 Bay C4 - Concrete for Gap of Base Slab & Waterproofing	3d	10-Oct-16	13-Oct-16	_								
SR8_ZC_186	60 Bay C4 - Base Slab & Drinage Pipe	4d	19-Oct-16	23-Oct-16									
Bay C5		12d	10-Oct-16	22-Oct-16									
SR8_ZC_200	00 Bay C5 - Concrete for Gap of Base Slab & Waterproofing	3d	10-Oct-16	13-Oct-16									
SR8_ZC_20 ⁴	10 Bay C5 - Base Slab & Drinage Pipe	6d	13-Oct-16	19-Oct-16	-								
SR8_ZC_202	20 Bay C5 - Remove Strut SL5	3d	19-Oct-16	22-Oct-16	-								
Bay C6	•	12d	13-Oct-16	25-Oct-16									
	20 Bay C6 - Waterproofing	2d	13-Oct-16	15-Oct-16	_								
	30 Bay C6 - Base Slab & Drinage Pipe	6d	19-Oct-16	25-Oct-16	_								
	Ch.385.000 to Ch.317.500 - (Inside Victoria Park to Tunnel Portal)	185d	19-Apr-16 A	20-Oct-16									
	Tunnel - ELS / CCT / BF Works (7 Bays Ch. 385.000 to Ch.317.500)	185d	19-Apr-16 A	20-Oct-16									
Portal Struct		185d	19-Apr-16 A	20-Oct-16									
	construction	4d	08-Jun-16 A	20-Jun-16 A									
	1351.8 to CH368)			20-Jun-16 A									
	340 B3 - Remove Upper Struts inside Tunnel Box	4d	08-Jun-16 A	20-Jun-16 A	inside Tunnel Box								
	emove Struts		19-Apr-16 A	24-Aug-16									
	350 Zone B - Backfill Gap between Structural Wall & Pipe Piles	4d	19-Apr-16 A	05-Aug-16			Zone B - Back	rfill Gan betwe	en Structural \	M 211 & F	Pina Pi	65	
	360 Zone B - Remove Remaining Struts near Ground Level	8d	06-Aug-16	15-Aug-16	-		Zone B - Dae		Remove Rem		1		lovel
	380 Zone B - Remove Top Layer of Strut for Pump House Shaft Construction	8d	15-Aug-16	24-Aug-16	_			Zone B	1	-	1	:	Strut for Pump
	Zone B - Kentove rup Layer of Structor Fump House Shart Construction			20-Oct-16					Zone	D- Kei	nove	TOP Layer OF	
		34d	17-Sep-16										
	1338.625 to CH351.8)		17-Sep-16										
	390 Zone B - OHVD Bay 2 - Erect Scaffolding & Soffit Formwork	6d	17-Sep-16*	23-Sep-16									
	400 Zone B - OHVD Bay 2 - Rebar Fixing for Slab of OHVD	3d	24-Sep-16	27-Sep-16	_								
	410 Zone B - OHVD Concrete of Slab of OHVD	1d	28-Sep-16	28-Sep-16	_								
	420 Zone B - OHVD Rebar Fixing to Wall	1d	29-Sep-16	29-Sep-16									
	430 Zone B - OHVD Erect Wall Formwork for OHVD	2d	30-Sep-16	03-Oct-16									
	440 Zone B - OHVD Concrete Hanger Wall of OHVDV	1d	04-Oct-16	04-Oct-16									
	450 Zone B - OHVD Curing Period for OHVD Slab	10d	04-Oct-16	14-Oct-16									
	460 Zone B - OHVD Remove Soffit Formwork & Scaffolding	5d	14-Oct-16	20-Oct-16									
Bay B3 (CH	1351.8 to CH368)												



CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LTD.



D Activity Name	Original Duration		Finish				201	6	
SR8_ZB_1470 Zone B - OHVD Bay 3 - Erect Scaffolding & Soffit Formwork	6d	05-Oct-16	12-Oct-16	Jul		Aug			Sep
SR8_ZB_1480 Zone B - OHVD Bay 3 - Rebar Fixing for Slab of OHVD	3d	13-Oct-16	15-Oct-16						
SR8_ZB_1490 Zone B - OHVD Bay 3 - Concrete of Slab of OHVD	1d	17-Oct-16	17-Oct-16						
SR8_ZB_1500 Zone B - OHVD Bay 3 - Rebar Fixing to Wall	1d	18-Oct-16	18-Oct-16						
SR8_ZB_1510 Zone B - OHVD Bay 3 - Erect Wall Formwork for OHVD	2d	19-Oct-16	20-Oct-16						
Utility Trough	21d	17-Sep-16	13-Oct-16						
Left Hand Side	21d	17-Sep-16	13-Oct-16						
SR8_ZB_1550 Zone B - U trough (LHS) Bay 1	7d	17-Sep-16*	24-Sep-16						-
SR8_ZB_1560 Zone B - U trough (LHS) Bay 2	7d	26-Sep-16	04-Oct-16						
SR8_ZB_1570 Zone B - U trough (LHS) Bay 3	7d	05-Oct-16	13-Oct-16						
Pump House	35d	24-Aug-16	06-Oct-16						
Access Hut Near Ground Level	14d	24-Aug-16	09-Sep-16						
SR8_ZB_1800 PS- Internal Wall Formwork	4d	24-Aug-16	29-Aug-16				F	S- Internal Wa	all Formwork
SR8_ZB_1810 PS- Erect Scaffolding + Roof Soffit Fromwork	5d	29-Aug-16	03-Sep-16	-				PS- F	rect Scaffolding + Ro
SR8_ZB_1820 PS- Rebar Fixing	4d	03-Sep-16	08-Sep-16	_					PS- Rebar Fixing
				_					Ĭ
SR8_ZB_1830 PS- Place Concrete to Wall & Roof Slab	1d	08-Sep-16	09-Sep-16						PS- Place Con
Floor Slabs & Partition Walls		09-Sep-16	06-Oct-16						
SR8_ZB_1860 PS-Internal Wall Inside Pump House	21d	09-Sep-16	06-Oct-16						
SR8 (Zone A) - Ch 317.500 to Ch 210.000 - U-Structure & Slab (Victoria Park)	119d	15-May-16 A	13-Sep-16						
RC CCT & Backfill Ch317.5000 to Ch240.000	48d	20-Jul-16	13-Sep-16						
Structure	48d	20-Jul-16	13-Sep-16						
Utility Through	48d	20-Jul-16	13-Sep-16						
SR8_ZA_1260 Zone A - Utility Trough	48d	20-Jul-16	13-Sep-16					<u> </u>	Zone A
SR8 Structural Slab Ch.240.000 to Ch.210.000	91d	15-May-16 A	16-Aug-16						
SR8_2330 Zone A - Remove Temporary Stockpile for Type 1 Excavated Material	14d	15-May-16 A	07-Jul-16 A	Zone A - Remove Temporary Stockpile	for Type 1 Excavated Materia	1			
SR8_2090B Zone A - Wall Sterm - Bay 3	14d	20-Jul-16	02-Aug-16		Zone A - Wall Ste	rm - Bay 3			
SR8_2090C Zone A - Profile Barrier for Utilities Trough	14d	03-Aug-16	16-Aug-16	-		Zone	A - Profile Barrier for	Utilities Troug	h
Aone A & B - Backfill & Reinstatement Works Including Removal of Struts	28d	08-Aug-16	09-Sep-16						
SR8_1920 SR8 U structure - Backfilling & Compaction + Removal of Struts & Sheet Pile	14d	08-Aug-16	24-Aug-16				SD9 LL otr	Pookfi	lling & Compaction + I
		-	-				SROUSIN	dure - backin	
SR8_1930 Remove and/or Pull Sheet Piling Materials	14d	24-Aug-16	09-Sep-16						Remove and/or
rks in KD9	155d	30-Jan-16 A	14-Nov-16						
ing Fung St - RW & Subway Extension & Toe Wall at Hing Fat St	116d	02-May-16 A	21-Oct-16						
et. Wall & TF Subway Extension (Portion V)	67d	02-May-16 A	22-Aug-16						
Retaining Wall RW8C at Tsing Fung Street (Portion V)	67d	02-May-16 A	22-Aug-16						
VP_1390 RW8C - Demolish Top Portion of Existing Wall Head at Boundary Fence	18d	02-May-16 A	05-Aug-16		RW8C - De	emplish Top Por	tion of Existing Wall	Head at Bound	ary Fence
VP_1370A RW8C - Install Steel Railing on Top of RW8C	14d	06-Aug-16	22-Aug-16				RW8C - Instal	I Steel Railing c	on Top of RW8C
Subway Extension at Tsing Fung Street (Portion VIII)	14d	20-Jul-16	04-Aug-16					-	
VP_1375.50 TFS Subway extension - install Railing	14d	20-Jul-16	04-Aug-16		TFS Subway	extension - ins	tall Railing		
Retaining Wall + Toe Wall at Hing Fat Street	78d	20-Jul-16	21-Oct-16					+	
Retaining Wall RW8D	76d	20-Jul-16	19-Oct-16						
Bay 3(10m) to Bay 4(10m)	31d	20-Jul-16	24-Aug-16					+	
		20-Jul-16	05-Aug-16			BA) - Domos	e Base Formwork		
PW8D 1020 PW8D(B3 to B4) - Remove Base Formwork	164		UU-AUU-10			0 P4) - Remov	G DASE FUTTIWUTK	1 1	
RW8D_1020 RW8D(B3 to B4) - Remove Base Formwork RW8D_4020 RW8D(R3 to B4) - Well Starse	15d		-	_		DW05/55	40 D4) W-1 O		
RW8D_1020 RW8D(B3 to B4) - Remove Base Formwork RW8D_1030 RW8D(B3 to B4) - Wall Stems RW8D_1040 RW8D(B3 to B4) - Remove Wall Formworks & Repair F5 Finish	15d 7d 5d	06-Aug-16	13-Aug-16				to B4) - Wall Stems		ormworks & Repair F

Date Page 8 of 10 Actual Work Upd 20-Jul-16 Remaining Work 中國連禁工程(春港)有限公司 Contract No. HY/2010/08: Central - Wanchai Bypass Tunnel +(Slip Critical Remaining Work Road 8 Section) - 3 Months Rolling Progamme ٠ Milestone

CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LTD.



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ivity ID	Activity Name	Original Duration	Start	Finish	2016
RW8D_1050	RW8D(B3 to B4) - Backfill to Ground Level	4d	20-Aug-16	24-Aug-16	Jul Aug Sep
Bay 2(10m) to B	lay 1(12.5m)	33d	25-Aug-16	04-Oct-16	
RW8D_1060	RW8D(B2 to B1) - Excavation & Blinding	8d	25-Aug-16	02-Sep-16	RW8D(B2 to B1) - Excavation
RW8D_1070	RW8D(B2 to B1) - Base Slab	7d	03-Sep-16	10-Sep-16	RW8D(B2 to I
RW8D_1080	RW8D(B2 to B1) - Remove Base Formwork	2d	12-Sep-16	13-Sep-16	Rwsþ(
RW8D_1090	RW8D(B2 to B1) - Wall Stems	7d	14-Sep-16	22-Sep-16	
RW8D_1100	RW8D(B2 to B1) - Remove Wall Formworks & Repair F5 Finish	5d	23-Sep-16	28-Sep-16	
RW8D_1110	RW8D(B2 to B1) - Backfill to Ground Level	4d	29-Sep-16	04-Oct-16	
Toe Wall (8m)		12d	05-Oct-16	19-Oct-16	
RW8D_1120	RW8DToe Wall - Excavation & Blinding	8d	05-Oct-16	14-Oct-16	
RW8D_1130	RW8DToe Wall - Toe Wall Construction	4d	15-Oct-16	19-Oct-16	
Retaining Wall R	W8E	14d	05-Oct-16	21-Oct-16	
RW8E_2000	RW8E - Excavation & Temporary Works	14d	05-Oct-16	21-Oct-16	
	rks: Raod & Drain, Surfacing, Furnitures, Traffic Signs etc.	155d	30-Jan-16 A	14-Nov-16	
	for Watermain for Zone 1 to Zone 4	28d	13-Oct-16	14-Nov-16	
EX_WSD_1020	Zone 2 - DN 100 MDPE Water Main Ready for WSD Connection	28d	13-Oct-16	14-Nov-16	
	m RW8E to Subway Extension	21d	05-Oct-16	29-Oct-16	
	t Hing Fat Street Foothpath	21d	05-Oct-16	29-Oct-16	
EX_Z1_1070	Zone 1 - DS16 - Footing	21d	05-Oct-16	29-Oct-16	
	Extensiion to New Lay-by	141d	30-Jan-16 A	28-Oct-16	
Works Within vic		141d	30-Jan-16 A	28-Oct-16	
EX_Z2_1040	Zone 2 - Laying DN150 Sewer	21d	30-Jan-16 A	14-Sep-16	Zone
EX_Z2_1000	Zone 2 - Remove Existing Boundary Wall Footing at Tsing Fung Street	14d	02-May-16 A	04-Aug-16	Zone 2 - Remove Existing Boundary Wall Footing at Tsing Fung Street
EX_Z2_1010	Zone 2 - Construction of VMS6 Footing	21d	05-Aug-16	29-Aug-16	Zone 2 Construction of VMS6 Foot
EX_Z2_1020	Zone 2 - Construction of FVMSH3 Footing	21d	05-Aug-16	29-Aug-16	Zone 2 - Construction of FVMSH3 Fc
EX_Z2_1030	Zone 2 - Construction of 15m CCTV Camera High Mast Footing at Lay-by	21d	05-Aug-16	29-Aug-16	Zone 2 - Construction of 15m CCTV
EX_Z2_1050	Zone 2 - Laying DN100 MDPE Water Main - F01	21d	15-Sep-16	12-Oct-16	
EX_Z2_1060	Zone 2 - Laying DN225 Strom Drain	14d	15-Sep-16	03-Oct-16	
EX_Z2_1070	Zone 2 - Laying DN40 Irrigation Main	14d	13-Oct-16	28-Oct-16	
Zone 4 - Zone A to	o Zone C within Victoria Park	35d	09-Sep-16	24-Oct-16	
Footing Along U	-struture & Portal Both Sides	35d	09-Sep-16	24-Oct-16	
EX_Z4_1000	Zone 4 - Sewer & Strom Drain Pipe Laying	21d	09-Sep-16	06-Oct-16	
EX_Z4_1010	Zone 4 - Laying DN40 Irrigation Main	14d	06-Oct-16	24-Oct-16	
EX_Z4_1020	Zone 4 - Overheight Detector Footing & Draw Pits at Both Sides	14d	06-Oct-16	24-Oct-16	
Works in Victoria I	Park	1470d	21-Mar-13 A	13-Dec-17	
Re-Provisioning V	Norks	123d	27-Apr-16 A	13-Dec-16	
Nursery Compour	nd	123d	27-Apr-16 A	13-Dec-16	
Submission		123d	27-Apr-16 A	13-Dec-16	
Structural Subm	nission	21d	27-Apr-16 A	12-Aug-16	
Method Statem	nent	21d	27-Apr-16 A	12-Aug-16	
VP_NC_1020	Method Statement - Submission	7d	27-Apr-16 A	19-Jul-16 A	Method Statement - Submission
VP_NC_1030	Method Statement - ER Review and Approval	21d	20-Jul-16	12-Aug-16	Method Statement - ER Review and Approval
ABWF Submiss	ion	109d	22-Jun-16 A	26-Nov-16	
		88d	22-Jun-16 A	02-Nov-16	

中図連葉工程(香港)介限公司 CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LTD. Actual Work Critical Remaining Work ◆ Milestone
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Contract No. HY/2010/08: Central - Wanchai Bypass Tunnel +(Slip Road 8 Section) - 3 Months Rolling Progamme

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tion & Blinding				
to B1) - Base S	lah			
b b i) - base .	bidD			
D(B2 to B1) - 🕅	Remove Ba	se Formwor	k	
	V8D(B2 to 1	B1) - Wall St	ems	
	R	V8D(B2 to E	1) - Remove Wa	all Formworks & Rep
		RV	/80/(B2 to B1) -	Backfill to Ground Le
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e 2 - Laying D	N150 Sewe	r	1	
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Footing				
V Camera Hig	h Mast Foo	ting at Lay-b	у	
			Zor	e 2 - Laying DN100
		Zone	2 - Laying DN2	25 Strom Drain
			Zone 4 - Sewer	& Strom Drain Pipe
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Ac	ctivity ID		Activity Name	Original Duration		Finish							201	6			
							Jul				Aug	8	2011				Sep
		VP_NC_1040	ABWF Materail - Submission for Specification and Samples	14d	22-Jun-16 A	14-Jul-16 A	ABWE	Mat	terail - Submission for	Specification and Sample	S						
		VP_NC_1050	ABWF Materail - ER Review and Approval	28d	20-Jul-16	20-Aug-16						ABWF Mate	ərail - E	R Rev	iew and A	oproval	
		VP_NC_1060	ABWF Issue P.O. / Manufacturing / Fabrication	30d	22-Aug-16	26-Sep-16											
		VP_NC_1070	ABWF Materail Delivery	30d	27-Sep-16	02-Nov-16											
		Shop Drawing		81d	22-Aug-16	26-Nov-16											
		VP_NC_1080	ABWF Shop Drawing - Submission	21d	22-Aug-16	14-Sep-16							:		:		ABWI
		VP_NC_1090	ABWF Shop Drawing - ER Review and Approval	60d	15-Sep-16	26-Nov-16	_										
		Method Stateme	ent	42d	22-Aug-16	12-Oct-16		+							1 1 1		
		VP_NC_1100	ABWF Method Statement - Submission	14d	22-Aug-16	06-Sep-16									AE	3WH Meth	od Stater
		VP_NC_1110	ABWF Method Statement - ER Review and Approval	28d	07-Sep-16	12-Oct-16	_										
		E&M Submission		123d	20-Jul-16	13-Dec-16		╈									
		Material		102d	20-Jul-16	18-Nov-16		╉				1 1 1					
		VP_NC_1120	E&M Materail - Submission for Specification and Samples	14d	20-Jul-16	04-Aug-16				E&M Materail -	Submission fo	r Specificatio	n and S	ample	s		
		VP_NC_1130	E&M Materail - ER Review and Approval	28d	05-Aug-16	06-Sep-16	_								E8	k M Matera	ail - ER R
		VP_NC_1140	E&M Issue P.O. / MAnufacturing / Fabrication	30d	07-Sep-16	14-Oct-16	_										
		VP_NC_1150	E&M Materail Delivery	30d	15-Oct-16	18-Nov-16											
		Shop Drawing		81d	07-Sep-16	13-Dec-16		+									
		VP_NC_1160	E&M Shop Drawing - Submission	21d	07-Sep-16	03-Oct-16											
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		VP_NC_1170	E&M Shop Drawing - ER Review and Approval	60d	04-Oct-16	13-Dec-16		4									
		Method Stateme		42d	07-Sep-16	28-Oct-16											
		VP_NC_1180	E&M Method Statement - Submission	14d	07-Sep-16	23-Sep-16											
		VP_NC_1190	E&M Method Statement - ER Review and Approval	28d	24-Sep-16	28-Oct-16											
	N	lursery Construc	tion	57d	16-Aug-16	24-Oct-16											
	ľ	VP_NC_1200	Implement Additional Site Access to Victoria Park	1d	16-Aug-16	16-Aug-16					Implei	nent Additiona	al Site A	ccess	to Victoria	a Park	
	ľ	VP_NC_1220	NC - U/G Utilities and Foundation Works	21d	17-Aug-16	09-Sep-16										NC-I	U/G Utiliti
	,	VP_NC_1230	NC - Base Slab	14d	10-Sep-16	27-Sep-16											-
	,	VP_NC_1240	NC - Walls	21d	28-Sep-16	24-Oct-16											
	Est	tablishment Wo	rks for Landscape Softworks	901d	23-Feb-15 A	13-Dec-17									1		
	K	D11 - Section 7A:	Portion XIV & XV (Victoria Park Open Space)	901d	23-Feb-15 A	13-Dec-17						1 1 1					
	E	W_1000	Establishment Works - for Landscape Softworks and transplanted trees in Portion XIV &	901d	23-Feb-15 A	13-Dec-17										_	
	K	D12 - Section 7B:	XV Portion VI & VII (Reprov. Bowling Green Area)	177d	03-Dec-15 A	20-Jul-16		╈									
	E	W_1010	Establishment Works - for Landscape Softworks and transplanted trees in Portion VI & VII	177d	03-Dec-15 A	20-Jul-16			Establishment Work	s - for Landscape Softwo	rks and trans	planted trees	in Port	ion VI	& VII		
	KD	10 - Preservatio	on and Protection of Trees	1088d	21-Mar-13 A	19-Nov-16		╈							- - - -		
	PF	PT_0000	Preservation and Protection of Existing Trees	1088d	21-Mar-13 A	19-Nov-16											
			ring Components Upkeep (CBTS and ATS)	1399d	21-Mar-13 A	17-Jan-17		╉									
		R_2000	Mooring Upkeep at Portion XIX(19) & XX(20) - ATS (if instructed by Engineer)	1399d	21-Mar-13 A	17-Jan-17											
		R_3020	Mooring Upkeep at Portion X(10) & XVI(16) - CBTS	979d	15-May-14 A	17-Jan-17											
			lorks Regional Laboratory (North Lantau)	1301d	19-Jul-13 A	20-Nov-17		1									
			ce and Upkeep of New PWRL (Portion XVII)	1301d	19-Jul-13 A	20-Nov-17		+									
	PV	VRL_1050	Maintenance/ Upkeep of New PWRL	1301d	19-Jul-13 A	20-Nov-17		7	i i								

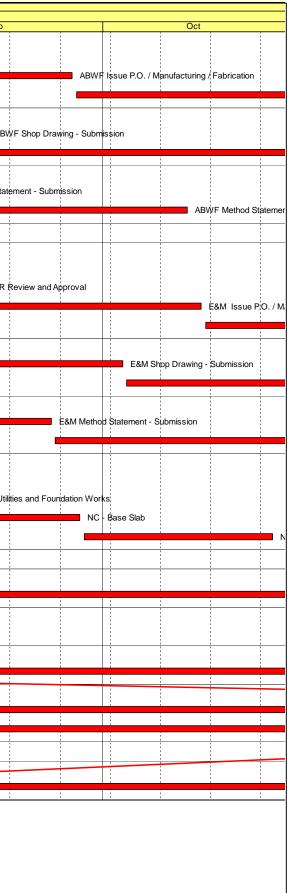


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Critical Remaining Work

Milestone

20-Jul-16 Contract No. HY/2010/08: Central - Wanchai Bypass Tunnel +(Slip Road 8 Section) - 3 Months Rolling Progamme



Revision	Checked	Approved
Updated to 20th Jul 2016	DML/WC	

Date