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, FEP-07/356/2009 AND FEP-08/356/2009

MONTHLY ENVIRONMENTAL MONITORING & AUDIT REPORT

- JANUARY 2017 -

CLIENTS:

Civil Engineering and Development Department

and

Highways Department

PREPARED BY:

Lam Geotechnics Limited

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CERTIFIED BY:

Raymond Dai
Environmental Team Leader

DATE:

13 February 2017

RAMBOLL ENVIRON

Ref.: AACWBIECEM00_0_9048L.17

13 February 2017

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

By Post and Fax (3912 3010)

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 (January 2017) 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 January 2017 received by e-mail on 13 February 2017 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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c.c.

HyD	Attn: Mr. Eddy Wu	by fax: 2714 5289
CEDD	Attn: Mr. Stephen Lo	by fax: 2577 5040
AECOM	Attn: Mr. Frankie Fan	by fax: 2691 2649
AECOM	Attn: Mr. Conrad Ng	by fax: 2691 2649
Lam	Attn: Mr. Raymond Dai	by fax: 2882 3331

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i. This is the Environmental Monitoring and Audit (EM&A) Monthly Report – January 2017 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, FEP-07/356/2009 and FEP-08/356/2009. This report presents the environmental monitoring findings and information recorded during the period of 27th December 2016 to 26th January 2017. 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 Eastern Breakwater
- Trimming works of high sport at TPCWAW

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:
- Installation of Box 1 unit
- Construction of culver L Bay 8

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. School examination was scheduled to be taken place at Henrietta Secondary School on 24 January 2017 and 25 January 2017, the limit level of noise monitoring at station M6 was adjusted to 65dB(A) during examination period accordingly.

x. One limit level exceedance was recorded at M6 – HK Baptist Church Henrietta School on 24 January 2017 in the reporting month. The exceedances were concluded as non-Project related.

xi. 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

xii. Due to interruption of electricity supply, the 24hr TSP was rescheduled as follows:
CMA1b monitoring station from 3 and 26 January 2017 to 4 and 27 January 2017 respectively
CMA4a monitoring station from 9 and 20 January 2017 to 10 and 21 January 2017 respectively

xiii. Two 24hr TSP action level exceedances were recorded at CMA5b – Pedestrian Plaza on 09 and 20 January 2017 in the reporting month. The exceedances were concluded to be non-Project related.

xiv. With respect to the proposed demolition of eastern podium of Oil Street Site Office, the respective air quality monitoring station CMA1b – Oil Street Site Office was finely adjusted from East podium of the Oil Street Site Office to the West podium of the Oil Street Site Office on 21 December 2016.

xv. 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

xvi. With respect to the reinstatement of the silt screen system for Cooling Water Intakes P7, P8, P9 and WSD Water Intake RW21, the respective water quality monitoring was reverted to the previous monitoring location for Water Quality Monitoring Station RW21-P789 from water quality stations RW21-P789 East (RW21-P789E) and RW21-P789 West (RW21-P789W) from 25 January 2017 onwards.

xvii. With respect to the removal of temporary reclamation zone within Ex-PCWA, the Enhance DO Monitoring Station Ex-PCWA SW was finely adjusted since 20 January 2017 ebb tide.

xviii. With respect to the removal of silt screen at WQM station RW21-P789 on 26 November 2016, the respective water quality monitoring at RW21-P789 was adjusted to RW21-P789E and RW21-P789W since 28 November 2016 ebb-tide.

xix. With respect to the temporarily suspension of marine construction works at WCR3 Area by Contract HK/2009/02, the installed silt screen for intake group (P7, P8, P9 and WSD21) was removed on 26 November 2016.

xx. 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.

xxi. 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.

xxii. 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.

xxiii. 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 I Summary of Water Quality Monitoring Exceedances in Reporting Month

Contract no.	Water quality monitoring Station	Mid-flood						Mid-ebb					
		DO		Turbidity		SS		DO		Turbidity		SS	
		AL	LL	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL
HK/2009/01 & HK/2009/02	C1	0	0	0	0	0	0	0	0	0	0	0	0
HK/2012/08	WSD19	0	0	1	0	0	0	0	0	0	0	0	0
	P1	0	0	0	0	0	0	0	0	0	0	0	0
	P3	0	0	0	0	0	0	0	0	0	0	0	0
	P4	0	0	0	0	0	0	0	0	0	0	0	0
	P5	0	0	0	0	0	0	0	0	0	0	0	0
HK/2009/02	RW21-P789W	0	0	0	0	0	0	0	0	0	0	0	0
	RW21-P789E	0	0	0	0	0	0	0	0	0	0	0	0
HY/2009/15 & HY/2010/08	C7	0	0	0	2	0	0	0	0	0	0	1	0
Total		0	0	1	2	0	0	0	0	0	0	1	0

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.
- The water quality monitoring station RW21-P789 was adjusted to RW21-P789E and RW21-P789W since 28 November 2016 ebb-tide.
- The water quality monitoring was reverted to previous monitoring station RW21-P789 from PW21-P789E and RW21-P789W from 25 January 2017 onwards.

xxiv. There were 1 action level and 2 limit level of turbidity exceedances and 1 action level of suspended solid exceedances recorded in the reporting month.

xxv. Investigation found that the turbidity and suspended solid 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***.

xxvi. 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***.

Table II Summary of Enhanced Dissolved Oxygen Monitoring Exceedances in Reporting Month

Contract no.	Water quality monitoring Station	Mid-flood		Mid-ebb	
		DO		DO	
		AL	LL	AL	LL
HY/2009/15 & HY/2010/08	C6	0	0	0	0
HY/2009/15	Ex-WPCWA SW	0	0	0	0
	Ex-WPCWA SE	0	2	0	0
Total		0	2	0	0

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 Ex-WPCWA SE was temporarily suspended from 31 August 2015 with respect to seawall reinstatement works and formation of active works area. The Enhance DO monitoring at Ex-WPCWA SE was resumed on 11 May 2016 due to completed section of seawall reinstatement works at Ex-PCWA.

xxvii. There were 2 limit level exceedances recorded for enhanced dissolved oxygen monitoring in this reporting month. Investigation found that the exceedances recorded in this reporting month were 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

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

Site Inspections and Audit

xxix. 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

xxx. In coming reporting month, the principal work activities of individual contracts are anticipated as follows:

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

- Nil

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

- Nil

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

- Nil

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

- Nil

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

- Construction of Box 1 unit
- Construction of culvert L Bay 8

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

- Diversion pipe maintenance
- Diaphragm Wall Removal works

1 Introduction

1.1 Scope of the Report

1.1.1. Lam Geotechnics Limited (LGL) has been appointed to work as the Environmental Team (ET) under Environmental Permit no. EP-356/2009 and Further Environmental permit nos. FEP-02/356/2009, FEP-03/356/2009, FEP-04/356/2009, FEP-06/356/2009, FEP-07/356/2009 and FEP-08/356/2009 to implement the Environmental Monitoring and Audit (EM&A) programme as stipulated in the EM&A Manual of the approved Environmental Impact Assessment (EIA) Report for Wan Chai Development phase II and Central-Wan Chai Bypass (Register No.: AEIAR-125/2008) and in the EM&A Manual of the approved EIA Report for Central-Wan Chai Bypass and Island Eastern Corridor Link (Register No. AEIAR-041/2001).

1.1.2. This report presents the environmental monitoring and auditing work carried out in accordance to the Section 10.3 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, FEP-07/356/2009 and FEP-08/356/2009 during the period of 27th December 2016 to 26th January 2017. 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

- 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.

Table 2.1 Schedule 2 Designated Projects under this Project

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

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***.

Table 2.2 Details of Individual Contracts under the Project

Contract No.	Contract Title	Associated DP(s)	Construction Commencement Date
HK/2009/01	Wan Chai Development Phase II – Central –Wanchai Bypass at Hong Kong Convention and Exhibition Centre	DP3, DP6	23 July 2010
		DP1, DP2	25 August 2011
HK/2009/02	Wan Chai Development Phase II – Central – Wan Chai Bypass at WanChai East	DP3, DP5	5 July 2010
		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 (Causeway Bay Typhoon Shelter Section)	DP3	10 November 2010
		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

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***:

Table 2.3 Contact Details of Key Personnel

Party	Role	Post	Name	Contact No.	Contact Fax
AECOM	Engineer's Representative for WDII	Principal Resident Engineer	Mr. Frankie Fan	2587 1778	2587 1877
	Engineer's Representative for CWB	Principal Resident Engineer	Mr. Peter Poon	3912 3388	3912 3010
Chun Wo – Leader Joint Venture	Contractor under Contract no. HK/2009/01	Project Manager	Mr. Simon Liu	9304 8355	2587 1878
		Site Agent	Mr. Andy Yu	9648 4896	
		Construction Manager	Mr. Wyman Wong	9627 2467	
		Environmental Officer	Mr. Terry Tsang	6683 9394	
Chun Wo – CRGL Joint Venture	Contractor under Contract no. HK/2009/02	Project Manager	Mr. Paul Yu	3658-3085	2827 9996
		Quality & Environmental Manager	Mr. C.P. Ho	9191 8856	
China State Construction Engineering (HK) Ltd.	Contractor under Contract no. HY/2009/15	Project Director	Chris Leung	3557 6393	2566 2192
		Senior Site Manager	Y Huo	3557 6368	
		Contractor's Representative	Rex Lau	3557 6405	
		Environmental Officer	Andy Mak	3557 6347	
Chun Wo – CRGL – MBEC_ Joint Venture	Contractor under Contract no. HY/2009/19	Project Manager	Rayland Lee	3758 6788	2570 8013
		Site Agent	David Lau	3758 8879	
		Deputy Site Agent	Eric Fong	6191 9337	
		Environmental Manager / Environmental Officer	M.H. Isa	9884 0810	
		Construction Manager (Marine)	Andy Chan	9879 4325	
		Construction Manager (Land)	Bear Ding	6483 6198	
		Operation Manager (Land)	Yung Kwok Wah	9834 1010	
China State-Build King Joint Venture	Contractor under Contract no. HK/2012/08	Project Director	C. N. Lai	9106 5806	2877 1522
		Project Manager	Eddie Chung	9189 8118	
		Site Agent	Keith Tse	9037 1839	
		Environmental Officer	James Ma	9130 9549	
		Environmental Supervisor	Y. L. Ho	9856 5669	

Party	Role	Post	Name	Contact No.	Contact Fax
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	Francis Suen	6672 0311	
		Environmental Officer	Gabriel Wong	35576466	
		Environmental Supervisor	Desmond Ho Tsz Ho	3557 6466	
Ramboll Environ Hong Kong Limited	Independent Environmental Checker (IEC)	Independent Environmental Checker (IEC)	Mr. David Yeung	3465 2888	3465 2899
Lam Geotechnics Limited	Environmental Team (ET)	Environmental Team Leader (ETL)	Mr. Raymond Dai	2882 3939	2882 3331

2.4.3. 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 Eastern Breakwater
- Trimming works of high sports at TPCWAW

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:

- Installation for Box 1 unit
- Construction of culvert L Bay 8

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:

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

- Nil

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

- Nil

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

- Nil

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

- Nil

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

- Construction of Box 1 unit
- Construction of culvert L Bay 8

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	Superseded
Environmental Permit	EP-364/2009/E	22 Dec 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

Permits and/or Licences	Reference No.	Issued Date	Status
Further Environmental Permit	FEP-07/356/2009	26 July 2013	Valid
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	Superseded
Further Environmental Permit	FEP-08/356/2009	1 Aug 2016	Valid
Further Environmental Permit	FEP-11/364/2009/E	22 Dec 2016	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:

Contract no. HK/2010/06 – Wan Chai Development Phase II – Central – Wan Chai Bypass 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.

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

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 Permit	FEP-02/356/2009	24 Mar 2010	N/A	Valid
	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 (CNP) for non-piling equipment	GW-RS1004-16	28 Sep 2016	29 Sep 2016 to 27 Mar 2017	Valid
	GW-RS1079-16	27 Oct 2016	27 Oct 2016 to 20 Apr 2017	Valid
	GW-RS1241-16	12 Dec 2016	15 Dec 2016 to 6 Jun 2017	Valid

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
	GW-RS1240-16	12 Dec 2016	13 Dec 2016 to 6 Jun 2017	Valid
	GW-RS1233-16	12 Dec 2016	14 Dec 2016 to 6 Jun 2017	Valid
	GW-RS1234-16	12 Dec 2016	20 Dec 2016 to 19 Jun 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

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
	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
Condition 2.9	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
	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

EP Condition	Submission	Date of Submission
Conditions 2.8 and 2.9	Supplementary Document on Silt Curtain and Silt Screen Deployment Plan	19 Jul 2010
	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

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

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
Construction Noise Permit (CNP) for non-piling	GW-RS1047-16	13 Oct 2016	26 Oct 2016 to 25 Apr 2017	Valid

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
equipment	GW-RS1140-16	11 Nov 2016	14 Nov 2016 to 9 May 2017	Valid
	GW-RS1297-16	15 Dec 2016	16 Dec 2016 to 14 Jun 2017	Valid
	GW-RS1305-16	22 Dec 2016	24 Dec 2016 to 13 Jun 2017	Valid
Discharge Licence	WT00022295-2015	12 Aug 2015	31 July 2020	Valid
	WT00025276-2016	19 Sep 2016	31 July 2021	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	Expired

Table 3.5 Summary of submission status under FEP-03/356/2009 Condition

EP Condition	Submission	Date of Submission
Condition 1.12	Commencement Date of Construction of Marine Works	8 April 2010
Condition 2.6	Management Organization of Main Construction Companies	10 April 2010
Condition 2.7	Works Schedule and Location Plans	8 April 2010
Condition 2.8	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
	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

EP Condition	Submission	Date of Submission
	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
	Silt Screen Deployment Plan (Revision E)	6 May 2013
	Silt Screen Deployment Plan (Revision F)	23 Nov 2016
Condition 2.17	Noise Management Plan	6 May 2010
Condition 2.18	Landscape Plan (Decorative Screen Hoarding)	11 May 2010
	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

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

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***.

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

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-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-RS0884-16	23 Aug 2016	8 Sep 2016 to 7 Mar 2017	Valid

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Registration as a Chemical Waste Producer	WPN5213-147-C1169-35	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	24 Oct 2016	24 Oct 2016 to 16 Jan 2017	Expired

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
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	Silt Screen Deployment Plan	19 Oct 2010
	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 2.23	Noise Management Plan	20 Oct 2010
	Amendment for Noise Management Plan	27 Jan 2011

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

3.1.7. 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-RS1251-16	7 Dec 2016	18 Dec 2016 to 17 Jun 2017	Valid
C&D Waste Disposal	7012306	10 Feb 2011	Registered	-
Vessel Disposal	7013285	21 July 2011	Registered	-
Registration as Chemical Waste Producer	5213-151-C3654-01	24 Mar 2011	Registered	-

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

3.1.8. Summary of the current status on licences and/or permits on environmental protection pertinent and submission for contract no. HK/2012/08 under FEP-08/356/2009 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	Expired
	GW-RS00739-16	12 Jul 2016	14 Jul 2016 to 12 Jan 2017	Expired
	GW-RS0733-16	12 Jul 2016	14 Jul 2016 to 12 Jan 2017	Expired

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
	GW-RS0746-16	12 Jul 2016	14 Jul 2016 to 12 Jan 2017	Expired
	GW-RS0902-16	24 Aug 2016	26 Aug 2016 to 25 Feb 2017	Valid
	GW-RS1076-16	14 Oct 2016	17 Oct 2016 to 31 Jan 2017	Valid
	GW-RS1335-16	29 Dec 2016	13 Jan 2017 to 12 Jul 2017	Valid
	GW-RS1340-16	23 Dec 2016	13 Jan 2017 to 12 Jul 2017	Valid
	GW-RS1336-16	29 Dec 2016	13 Jan 2017 to 12 Jul 2017	Valid
	GW-RS1349-16	23 Dec 2016	13 Jan 2017 to 12 Jul 2017	Valid
Dumping Permit (Type 1 – Open Sea Disposal)	EP/MD/17-052	28 Jun 2016	1 Jul 2016 to 31 Dec 2016	Expired

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

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)

3.1.9. 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 3.11 Cumulative 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-0562-16	28 Oct 2016	28 Oct 2016 to 26 Apr 2017	Valid

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

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.

Table 4.1 Noise Monitoring Station

Station	Description
M1a	Harbour Road Sports Centre
M2b	Noon Gun Area
M3a	Tung Lo Wan Fire Station
M4b	Victoria Centre
M5b	City Garden
M6	HK Baptist Church Henrietta Secondary School

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 (L_{eq}). $L_{eq\ (30\ minutes)}$ shall be used as the monitoring parameter for the time period between 0700 and 1900 hours on normal weekdays. For all other time periods, $L_{eq\ (5\ minutes)}$ shall be employed for comparison with the Noise Control Ordinance (NCO) criteria. Supplementary information for data auditing, statistical results such as L10 and L90 shall also be obtained for reference.

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.

Table 4.2 Air Monitoring Station

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

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 ***Appendix 4.1***.

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 9 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.

Table 4.3 Marine Water Quality Stations for Water Quality Monitoring

Station Ref.	Location	Easting	Northing
WSD Salt Water Intake			
WSD19	Sheung Wan	833415.0	816771.0
Cooling Water Intake			
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
RW21-P789E	Great Eagle Centre/ Sun Hung Kai Centre/ WSD Wanchai salt water intake / China Resources Building	836317.0	816030.0
RW21-P789W	Great Eagle Centre/ Sun Hung Kai Centre/ WSD Wanchai salt water intake / China Resources Building	836201.0	816021.0

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.
- The water quality monitoring station RW21-P789 was adjusted to RW21-P789E and RW21-P789W since 28 November 2016 ebb-tide.
- The water quality monitoring was reverted to previous monitoring station RW21-P789 from PW21-P789E and RW21-P789W from 25 January 2017 onwards.

WATER QUALITY PARAMETERS

4.3.4. Monitoring of dissolved oxygen (DO), turbidity and suspended solids (SS) shall be carried out at WSD flushing water intakes and cooling water intakes. DO and Turbidity are measured 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.

Table 4.4 Marine Water Quality Monitoring Frequency and Parameters

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

DISSOLVED OXYGEN AND TEMPERATURE MEASURING EQUIPMENT

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).

SAMPLER

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.

SALINITY

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 ***Appendix 4.2***.

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 4.1***.

Table 4.5 Marine Water Quality Stations for Enhanced Water Quality Monitoring

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

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 Ex-WPCWA SE was temporarily suspended from 31 August 2015 with respect to seawall reinstatement works and formation of active works area. The Enhance DO monitoring at Ex-WPCWA SE was resumed on 11 May 2016 due to completed section of seawall reinstatement works at Ex-PCWA.

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 qualtiy 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).

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

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

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 ***Appendix 5.2.***

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

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

Station	Description
M2b	Noon Gun Area
M3a	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 **Appendix 5.2.**

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.

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

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

5.1.8. School examination was scheduled to be taken place at Henrietta Secondary School on 24 January 2017 and 25 January 2017, the limit level of noise monitoring at station M6 was adjusted to 65dB(A) during examination period accordingly.

5.1.9. One limit level exceedances were recorded at M6- HK Baptist Church Henrietta Secondary School on 24 January 2017 in this reporting month.

5.1.10. Traffic noise was observed during monitoring 24 January 2017 and it were considered as the major noise contribution. As such, the limit level exceedances were concluded as non-project related.

5.1.11. Noise monitoring results measured in this reporting period are reviewed and summarized. Details of noise monitoring results and graphical presentation can be referred in ***Appendix 5.2.***

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

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

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

Station	Description
M2b	Noon Gun Area
M3a	Tung Lo Wan Fire Station

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

5.1.14. Noise monitoring results measured in this reporting period are reviewed and summarized. Details of noise monitoring results and graphical presentation can be referred in ***Appendix 5.2.***

5.2 Air Monitoring Results

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

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

Station	Description
CMA5b	Pedestrian Plaza
CMA6a	WDII PRE Site Office

5.2.2 One 24hr TSP action level exceedance was recorded at CMA5b on 09 January 2017.

5.2.3 No construction works was undertaken on 20 January 2017 around Pedestrian Plaza under Contract HK/2009/01, 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 local ambient condition.

5.2.4 One 24hr TSP action level exceedance was recorded at CMA5b on 20 January 2017.

5.2.5 No construction works was undertaken on 20 January 2017 around Pedestrian Plaza under Contract HK/2009/01, 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 local ambient condition such as road traffic next to the monitoring station.

5.2.6 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/2009/02 - Wan Chai Development Phase II – Central – Wan Chai Bypass at WanChai East

5.2.7 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

5.2.8 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. HY/2009/15 - Central-Wanchai Bypass – Tunnel (Causeway Bay Typhoon Shelter Section)

5.2.9 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.

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

Station	Description
CMA3a	CWB PRE Site Office

5.2.10 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. 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.

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

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

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.

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

Station	Description
CMA5b	Pedestrian Plaza

5.2.14 One 24hr TSP action level exceedance was recorded at CMA5b on 09 January 2017.

5.2.15 Despite formwork erection and rebar fixing was undertaken on 09 January 2017 date around Pedestrian Plaza under Contract HK/2012/08, 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 local ambient condition.

5.2.16 One 24hr TSP action level exceedance was recorded at CMA5b on 20 January 2017.

5.2.17 Despite formwork erection and rebar fixing was undertaken on 20 January 2017 around Pedestrian Plaza under Contract HK/2012/08, 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 local ambient condition such as road traffic next to the monitoring station.

5.2.18 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

5.2.19 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***.

5.3 Water quality monitoring Results

5.3.1. With respect to the reinstatement of the silt screen system for Cooling Water Intakes P7, P8, P9 and WSD Water Intake RW21, the respective water quality monitoring was reverted to the previous monitoring location for Water Quality Monitoring Station RW21-P789 from water quality stations RW21-P789 East (RW21-P789E) and RW21-P789 West (RW21-P789W) from 25 January 2017 onwards.

5.3.2. With respect to the removal of temporary reclamation zone within Ex-PCWA, the Enhance DO Monitoring Station Ex-PCWA SW was finely adjusted since 20 January 2017 ebb tide.

5.3.3. With respect to the temporarily suspension of marine construction works at WCR3 Area by Contract HK/2009/02, the installed silt screen for intake group (P7, P8, P9 and WSD21) was removed on 26 November 2016.

5.3.4. 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.

5.3.5. 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.

5.3.6. 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.

5.3.7. 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[2,6], RW21-P789W[2,5], RW21-P789E[2,5], 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.
2. 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.
5. With respect to the removal of silt screen at WQM station RW21-P789 on 26 November 2016, the respective water quality monitoring at RW21-P789 was adjusted to RW21-P789E and RW21-P789W since 28 November 2016 ebb-tide.
6. With respect to the reinstatement of the silt screen system for Cooling Water Intakes P7, P8, P9 and WSD Water Intake RW21, the respective water quality monitoring was reverted to the previous monitoring location for Water Quality Monitoring Station RW21-P789 from water quality stations RW21-P789 East (RW21-P789E) and RW21-P789 West (RW21-P789W) from 25 January 2017 onwards.

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

5.3.10 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 quality monitoring Stations for Contract no. HK/2009/01

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

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

5.3.12 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. HK/2009/02 - Wan Chai Development Wan Chai Development Phase II – Central – Wan Chai Bypass at WanChai East

5.3.13 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.

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

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
RW21-P789E	Great Eagle Centre/ Sun Hung Kai Centre/ WSD Wanchai salt water intake / China Resources Building	836317.0	816030.0
RW21-P789W	Great Eagle Centre/ Sun Hung Kai Centre/ WSD Wanchai salt water intake / China Resources Building	836201.0	816021.0

Remarks:

1. With respect to the removal of silt screen at WQM station RW21-P789 on 26 November 2016, the respective water quality monitoring at RW21-P789 was adjusted to RW21-P789E and RW21-P789W since 28 November 2016 ebb-tide.
2. With respect to the reinstatement of the silt screen system for Cooling Water Intakes P7, P8, P9 and WSD Water Intake RW21, the respective water quality monitoring was reverted to the previous monitoring location for Water Quality Monitoring Station RW21-P789 from water quality stations RW21-P789 East (RW21-P789E) and RW21-P789 West (RW21-P789W) from 25 January 2017 onwards.

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

5.3.15 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. HK/2012/08 - Wan Chai Development Phase II – Central- Wan Chai Bypass at Wan Chai West

5.3.16 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.

Table 5.14 Water quality Monitoring Stations for Contract no. HK/2012/08

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

5.3.17 There was 1 action level of turbidity exceedance recorded at WSD19 on 13 January 2017.

5.3.18 After checking with the Contractor, no marine activity was conducted on 13 January 2017. In view of no marine construction activity, the exceedance was considered not project related.

5.3.19 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)

5.3.20 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
Ex-WPCWA-SE	South-eastern of the ex-Wan Chai Public Cargo Working Area

Remarks:

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

5.3.21 There were 2 limit level of turbidity exceedances recorded at C7 on 3 and 16 January 2017.

5.3.22 After checking with the Contractor, no marine activity was conducted on 3 and 16 January 2017 at Causeway Bay Typhoon Shelter. In view of no marine construction activity, the exceedances were considered not project related.

5.3.23 There was 1 action level of suspended solid exceedance recorded at C7 on 9 January 2017.

5.3.24 After checking with the Contractor, no marine activity was conducted on 9 January 2017 at Causeway Bay Typhoon Shelter. In view of no marine construction activity, the exceedance was considered not project related.

5.3.25 There were 2 limit level of DO exceedances recorded at Ex-WPCWA SE on 20 January 2017.

5.3.26 After checking with the Contractor, despite trimming works of high sport was conducted at TPCWAW on 20 January 2017, Contractor mitigation measures including the use of localized silt curtain was generally in order. No particular observation regarding water quality was observed during sampling while upstream discharge from nearby culvert was noted. In view of the above, the exceedance was considered not related to Project works.

5.3.27 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)

5.3.28 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.

5.3.29 There were 2 limit level of turbidity exceedances recorded at C7 on 3 and 16 January 2017.

5.3.30 After checking with the Contractor, no marine activity was conducted on 3 and 16 January 2017, and the installed silt screen was in place. In view of no marine construction activity, the exceedances were considered not project related.

5.3.31 There was 1 action level of suspended solid exceedance recorded at C7 on 9 January 2017.

5.3.32 After checking with the Contractor, no marine activity was conducted on 9 January 2017, and the installed silt screen was in place. In view of no marine construction activity, the exceedance was considered not project related.

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.***

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

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

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.

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

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.***

Table 5.20 Details of Waste Disposal for Contract no. HK/2009/02

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.

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

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)	327746 (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 Type 1 Open Sea Disposal disposed in this reporting month.

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

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.***

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

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

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.

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

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

Table 5.23 Details of Waste Disposal for Contract no. HK/2012/08

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m^3 *	NIL NIL	4131 273	TM38 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 35m^3 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***

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

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m^3	NIL NIL	26849.2 19739.4	TM38 TKO137
Inert C&D materials recycled, m^3	NIL	NIL	N/A
Non-inert C&D materials disposed, m^3	NIL	NIL	N/A
Non-inert C&D materials recycled, kg	NIL	NIL	N/A
Chemical waste disposed, L	NIL	NIL	N/A
Marine Sediment (Type 1 – Open Sea Disposal)	NIL	62559.4	South Cheung Chau / 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

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.

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 action or limit level exceedance was recorded in this reporting month.

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

6.1.2 No action or limit level exceedance was recorded in this 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.

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

6.1.6. One limit level exceedances were recorded at M6- HK Baptist Church Henrietta Secondary School on 24 January 2017 in this reporting month.

6.1.7. Traffic noise was observed during monitoring 24 January 2017 and it were considered as the major noise contribution. As such, the limit level exceedances were concluded as non-project related.

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

6.1.8. 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 One 24hr TSP action level exceedance was recorded at CMA5b on 09 January 2017.

6.2.2 No construction works was undertaken on 09 January 2017 around Pedestrian Plaza under Contract HK/2009/01, 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 local ambient condition.

6.2.3 One 24hr TSP action level exceedance was recorded at CMA5b on 20 January 2017.

6.2.4 No construction works was undertaken on 20 January 2017 around Pedestrian Plaza under Contract HK/2009/01, 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 local ambient condition such as road traffic next to the monitoring station.

Contract no. HK/2009/02 – Wan Chai Development Phase II – Central – Wan Chai Bypass at Wan Chai East (CWB Tunnel)

6.2.5 No exceedance was recorded in the reporting month.

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

6.2.6 No exceedance was recorded in the reporting month.

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

6.2.7 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

6.2.8 One 24hr TSP action level exceedance was recorded at CMA5b on 09 January 2017.

6.2.9 Despite formwork erection and rebar fixing was undertaken on 09 January 2017 date around Pedestrian Plaza under Contract HK/2012/08, 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 local ambient condition.

6.2.10 One 24hr TSP action level exceedance was recorded at CMA5b on 20 January 2017.

6.2.11 Despite formwork erection and rebar fixing was undertaken on 20 January 2017 around Pedestrian Plaza under Contract HK/2012/08, 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 local ambient condition such as road traffic next to the monitoring station.

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

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

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

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

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

6.3.3 There were 2 limit level of turbidity exceedances recorded at C7 on 3 and 16 January 2017.

6.3.4 After checking with the Contractor, no marine activity was conducted on 3 and 16 January 2017 at Causeway Bay Typhoon Shelter. In view of no marine construction activity, the exceedances were considered not project related.

6.3.5 There was 1 action level of suspended solid exceedance recorded at C7 on 9 January 2017.

6.3.6 After checking with the Contractor, no marine activity was conducted on 9 January 2017 at Causeway Bay Typhoon Shelter. In view of no marine construction activity, the exceedance was considered not project related.

6.3.7 There were 2 limit level of DO exceedances recorded at Ex-WPCWA SE on 20 January 2017.

6.3.8 After checking with the Contractor, despite trimming works of high sport was conducted at TPCWAW on 20 January 2017, Contractor mitigation measures including the use of localized silt curtain was generally in order. No particular observation regarding water quality was observed during sampling while upstream discharge from nearby culvert was noted. In view of the above, the exceedance was considered not related to Project works.

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

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

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

6.3.10 There was 1 action level of turbidity exceedance recorded at WSD19 on 13 January 2017.

6.3.11 After checking with the Contractor, no marine activity was conducted on 13 January 2017. In view of no marine construction activity, the exceedance was considered not project related.

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

6.3.12 There were 2 limit level of turbidity exceedances recorded at C7 on 3 and 16 January 2017.

6.3.13 After checking with the Contractor, no marine activity was conducted on 3 and 16 January 2017, and the installed silt screen was in place. In view of no marine construction activity, the exceedances were considered not project related.

6.3.14 There was 1 action level of suspended solid exceedance recorded at C7 on 9 January 2017.

6.3.15 After checking with the Contractor, no marine activity was conducted on 9 January 2017, and the installed silt screen was in place. In view of no marine construction activity, the exceedance was considered not project related.

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.

7. Cumulative Construction Impact due to the Concurrent Projects

7.0.1. According to Condition 3.4 of the EP-356/2009, this section addresses the relevant cumulative construction impact due to the concurrent activities of the current projects including the Central Reclamation Phase III, Central-Wanchai Bypass and Island Eastern Corridor Link projects.

7.0.2. According to the Final EM&A Report of Central Reclamation Phase III (CRIII) for Contract HK 12/02, the major construction activities were completed by end of January 2014 and no construction activities were undertaken thereafter and the water quality monitoring was completed in October 2011 and no Project-related exceedance was recorded for air and noise monitoring. It can be concluded that cumulative construction impact due to the concurrent activities of the current projects with the Central Reclamation Phase III (CRIII) was insignificant.

7.0.3. According to the construction programme of Central-Wanchai Bypass at Wanchai West at the Central Reclamation Phase III area include road works, backfilling works and reinstatement of Culvert K were performed in January 2017 reporting month. As no project related exceedance were recorded during the reporting period, cumulative construction impact due to the concurrent activities of the current projects with the Central Reclamation Phase III (CRIII) was considered as insignificant.

7.0.4. According to the construction programme of Wan Chai Development Phase II, Central-Wan Chai Bypass and Island Eastern Corridor Link projects, the major construction activities under Wan Chai Development Phase II were, road and drains, building demolition and tunnel works at Wan Chai East, tunnel construction and backfilling works 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, reinstatement of Eastern Breakwater, 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. Five site inspections for Contract no. HK/2009/01 were conducted on 28 December 2016, 4, 11, 19 and 25 January 2017 in reporting month. Results of these inspections and outcomes are summarized in ***Table 8.1***.

Table 8.1 Summary of Environmental Inspections for Contract no. HK/2009/01

Item	Date	Observations	Action taken by Contractor	Outcome
170104_01	4 Jan 2017	Drip tray shall be provided for chemical container. (WA4)	Drip tray was provided for the concerned chemical container at WA4.	Completion as observed on 11 January 2017

8.0.3. Five site inspections for Contract no. HK/2009/02 were carried out on 29 December 2016, 5, 12, 17 and 24 January 2017 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

Item	Date	Observations	Action taken by Contractor	Outcome
161229_01	29 Dec 2016	Water spraying for dust suppression shall be implemented during breaking works at Portion 5.	Water spraying was implemented during breaking works at Portion 5.	Completion as observed on 5 January 2017.
161229_02	29 Dec 2016	Wheel washing shall be strengthen and improved to avoid muddy trail on public road outside Gate 6.	Wheel washing facilities was generally in order and no muddy trail on public road was observed.	Completion as observed on 5 January 2017.
161229_03	29 Dec 2016	It is needed to ensure all wheel washing shall be implemented within the site area and avoiding washing effluent flowed into nearby gulley at Gate 6.	Wheel washing facilities was generally in order and was implemented within the site area.	Completion as observed on 5 January 2017.
170105_1	5 Jan 2017	Silt/mud sitting on the edge of seawall shall be cleaned regularly to avoid drop off and cause potential contamination to nearby water (Potion 5)	Silt material at the edge of seawall was cleared.	Completion as observed on 12 January 2017.
170112_1	12 Jan 2017	Breaker shall be covered with acoustic material when operating at Portion 5	Breaker was covered with acoustic material at Portion 5.	Completion as observed on 17 January 2017
170112_2	12 Jan 2017	Leaked oil from the concrete pump trucks shall be cleaned properly and handled as chemical waste at Portion 5	Leaked oil was cleaned at Portion 5.	Completion as observed on 12 January 2017.

Item	Date	Observations	Action taken by Contractor	Outcome
170117_1	17 Jan 2017	The soak away area at Portion 5 shall regularly maintained to avoid overflowing of effluent to nearby public area.	The diversion of soak away area was under progress at Portion 5 to avoid overflowing of effluent.	Completion as observed on 2 February 2017.
170124_1	24 Jan 2017	Leaked oil from the roller machinery at Portion 3 & 4 shall be cleaned and ensure the oil container is properly maintained.	Leaked oil was cleaned at Portion 3 & 4.	Completion as observed on 2 February 2017.
170124_2	24 Jan 2017	Contractor is required to review the existing drainage system at the soak away area at Potion 5 to ensure no direct discharge of effluent to nearby public area.	The concerned area has been reviewed and the concerned hole has been blocked to avoid discharging of effluent.	Completion as observed on 2 February 2017.

8.0.4. Five site inspections for Contract no. HY/2009/15 were carried out on 28 December 2016, 3, 10, 17 and 24 January 2017 in reporting month. Results of these inspections and outcomes are summarized in ***Table 8.3***.

Table 8.3 Summary of Environmental Inspections for Contract no. HY/2009/15

Item	Date	Observations	Action taken by Contractor	Outcome
170103_1	3 Jan 2017	Leaked oil shall be cleaned as chemical waste (Eastern Breakwater)	Leaked oil was cleared as chemical waste.	Completion as observed on 10 Jan 2017
170117_1	17 Jan 2017	Leaked oil shall be cleaned as chemical waste (Eastern Breakwater)	Leaked oil was cleared as chemical waste.	Completion as observed on 24 Jan 2017

8.0.5. Five site inspections for Contract no. HY/2009/19 were carried out on 28 December 2016, 4, 11, 18 and 25 January 2017 in reporting month. Results of these inspections and outcomes are summarized in ***Table 8.4***.

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

Item	Date	Observations	Action taken by Contractor	Outcome
161228_2	28 Dec 2016	Watering shall be provided for hand-held electric circular cutting works to avoid dust meter (Harbour Grand Hotel)	Concerned cutting works was completed and no further dust impact was observed	Completion as observed on 4 Jan 2017
161228_3	28 Dec 2016	Noise barrier in accordance to EP condition shall be installed for IEC demolition works (Harbour Height)	Noise barrier was provided to relevant IEC demolition works	Completion as observed on 4 Jan 2017
170111_2	11 Jan 2017	Chemical waste shall be stored properly (Watson Road)	Chemical waste was stored in chemical waste container	Completion as observed on 18 Jan 2017

8.0.6. Five site inspections for Contract no. HK/2012/08 were carried out on 28 December 2016, 3, 10, 17 and 24 January 2017 in this reporting period. Results of these inspections and outcomes are summarized in **Table 8.5**.

Table 8.5 Summary of Environmental Inspections for Contract no. HK/2012/08

Item	Date	Observations	Action taken by Contractor	Outcome
161220_01	20 Dec 2016	Contractor shall ensure the discharge at Slip Road 1 is following the terms and condition of the wastewater discharge licence.	The concerned discharge was observed suspended.	Completion as observed on 24 January 2017.

8.0.7. Five site inspections for Contract no. HY/2010/08 were carried out on 28 December 2016, 4, 13, 18 and 24 January 2017 in this reporting period. Results of these inspections and outcomes are summarized in **Table 8.6**.

Table 8.6 Summary of Environmental Inspections for Contract no. HY/2010/08

Item	Date	Observations	Action taken by Contractor	Outcome
161228_1	28 Dec 2016	NRMM Label shall be provide to PME operated on site(TS3)	NRMM Label was provided to the concerned PME	Completion as observed on 4 Jan 2017
161228_2	28 Dec 2016	Drip tray shall be provided to chemical container and leaked oil shall be cleaned as chemical waste(TS3)	Drip tray was provided to chemical container	Completion as observed on 4 Jan 2017

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
January 2017	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**

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.

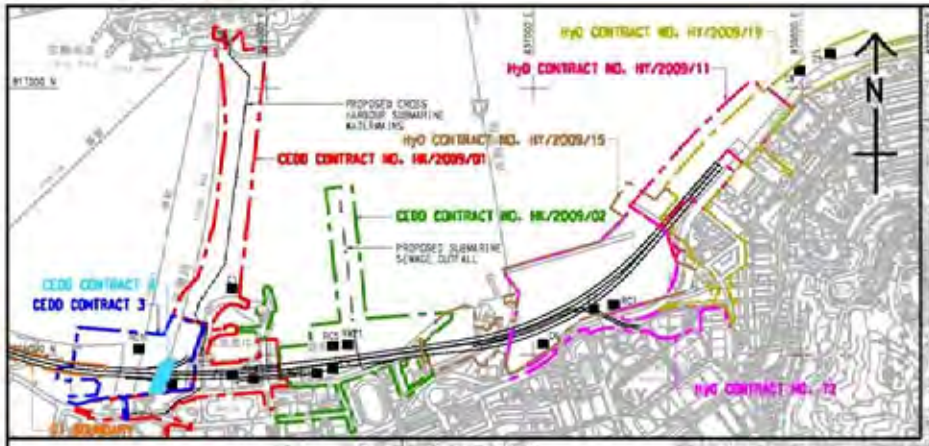
10.0.2. The scheduled construction activities and the recommended mitigation measures for the coming month are listed in ***Table 10.1***.

Table 10.1 Construction 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	• 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/2009/19	• Nil	• Nil
HK/2012/08	• Construction of Box 1 unit • Construction of culvert L Bay 8	• To conform the installation and setting as in the silt screen and silt curtain deployment plan • To space out noisy equipment and 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 • Diaphragm Wall Removal Works	• To conform the installation and 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



DETAIL 'A'

LEGEND:

- WATER QUALITY MONITORING STATIONS

COOLING WATER INTAKES

- E1 HONG KONG CONVENTION AND EXHIBITION CENTRE EXTENSION
- E2 TECHNICAL HOUSE/PAK ACADEMY FOR PERFORMING ARTS / SHATIN CENTRE
- E3 HONG KONG CONVENTION AND EXHIBITION CENTRE PHASE 2
- E4 WAN CHAI TOWER AND GREAT EAGLE CENTRE
- E5 SUN HUNG KAI CENTRE
- E6 PROPOSED EXHIBITION STATION / WORLD TRADE CENTRE
- E7 WINDSOR HOUSE
- E8 CITY GARDEN
- E9 PROVIDENT CENTRE
- E10 PROPOSED HKPA EXTENSION
- E11 SUN HUNG KAI CENTRE / REPOSITION)
- E12 WINDSOR HOUSE (TEMPORARY RESERVE)(E6)

WSD SALT WATER INTAKE

- #322 WAN CHAI
- #321 WAN CHAI EXTENSION)
- #320 CAUSEWAY BAY
- #319 TAI WAN
- #317 CHA KWO LING
- #315 TAI WAN (E)
- #311 QUARRY BAY
- #309 SHEUNG WAN
- #305 KENNEDY TOWN

DESIGNATED PROJECTS (DP)	
DP1	CENTRAL-WAN CHAI BYPASS EC(HK) INCLUDING IS ROAD TUNNEL AND SLIP ROADS
DP2	ROAD P2 AND OTHER ROADS EXCLUDED / DISTRICT DISTRIBUTOR ROADS)
DP3	PERMANENT AND TEMPORARY RECLAMATION WORKS INCLUDING ASSOCIATED DREDGING WORKS IN WAN CHAI DEVELOPMENT PHASE II (WDII) AREA
DP4	TEMPORARY BREAKWATER (DP4 NOT TO BE IMPLEMENTED)
DP5	WAN CHAI EAST SEWAGE OUTFALL
DP6	DREDGING FOR THE CROSS-HARBOUR WATER MAINS

DP1 IS COVERED BY EP - 314/2008
DP2 IS COVERED BY EP - 376/2009
DP3, DP5 AND DP6 ARE COVERED BY EP - 356/2009

WORKS CONTRACT	DESIGNATED PROJECT (DP)(S) INCLUDED	CONSTRUCTION COMMENCEMENT
CEDD CONTRACT NO. HK/2009/01	DP1, DP3, DP6	APRIL 2010
CEDD CONTRACT NO. HK/2009/02	DP1, DP3, DP5	APRIL 2010
CEDD CONTRACT 3	DP1, DP3	END 2011
CEDD CONTRACT 4	DP1, DP3	END 2011
CEDD CONTRACT 5	DP3	2011
HyD CONTRACT NO. HY/2009/11	DP3	18 MARCH 2010
HyD CONTRACT NO. HY/2009/15	DP1, DP3	SEPTEMBER 2012
HyD CONTRACT NO. HY/2009/16	DP1	OCTOBER 2012
HyD CONTRACT NO. HY/2009/19	DP1	NOVEMBER 2010
HyD CONTRACT 12	DP1, DP3	MID 2013

CEDD 土木工程拓展署 Civil Engineering and Development Department

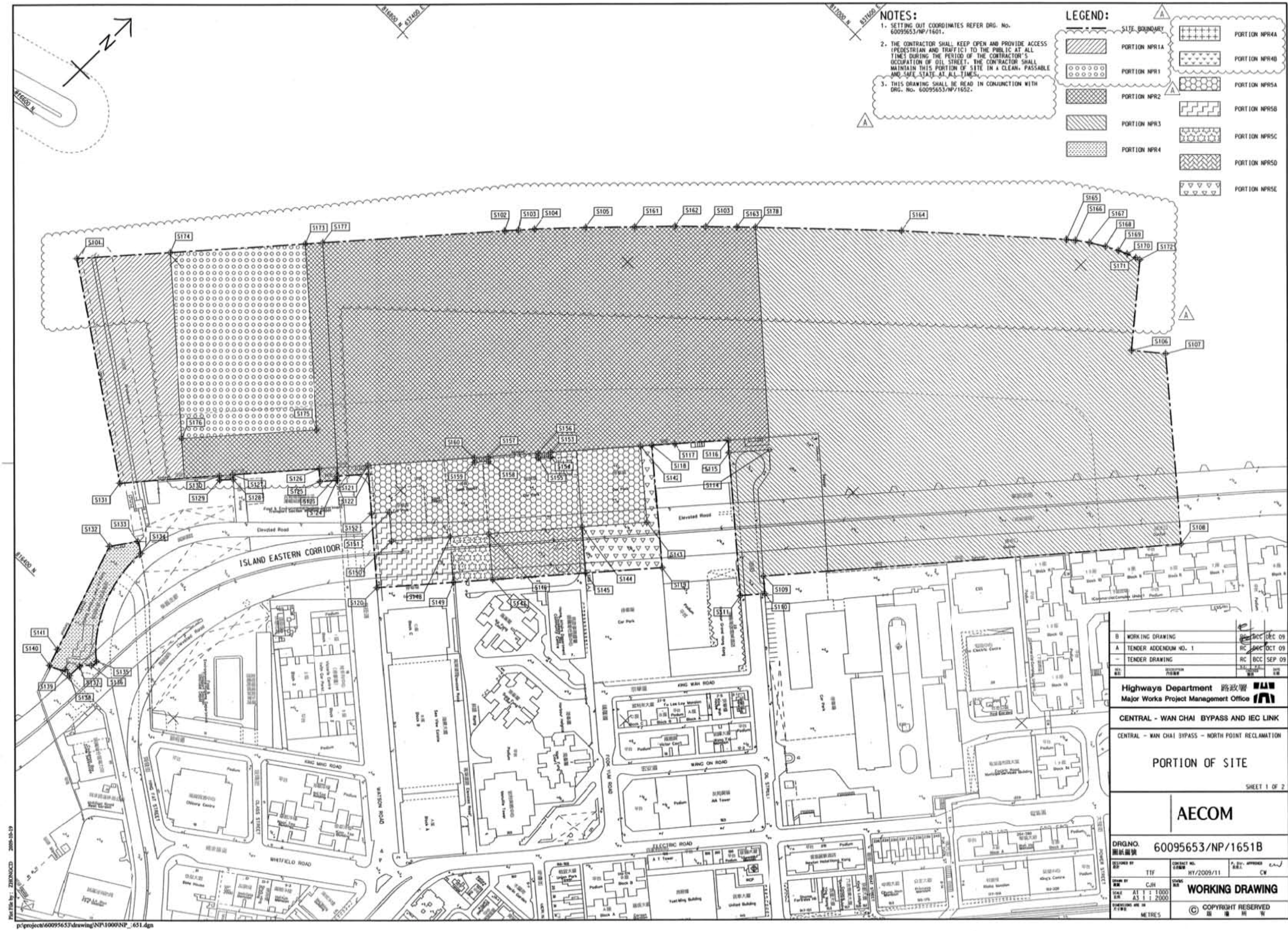
WAN CHAI DEVELOPMENT PHASE II

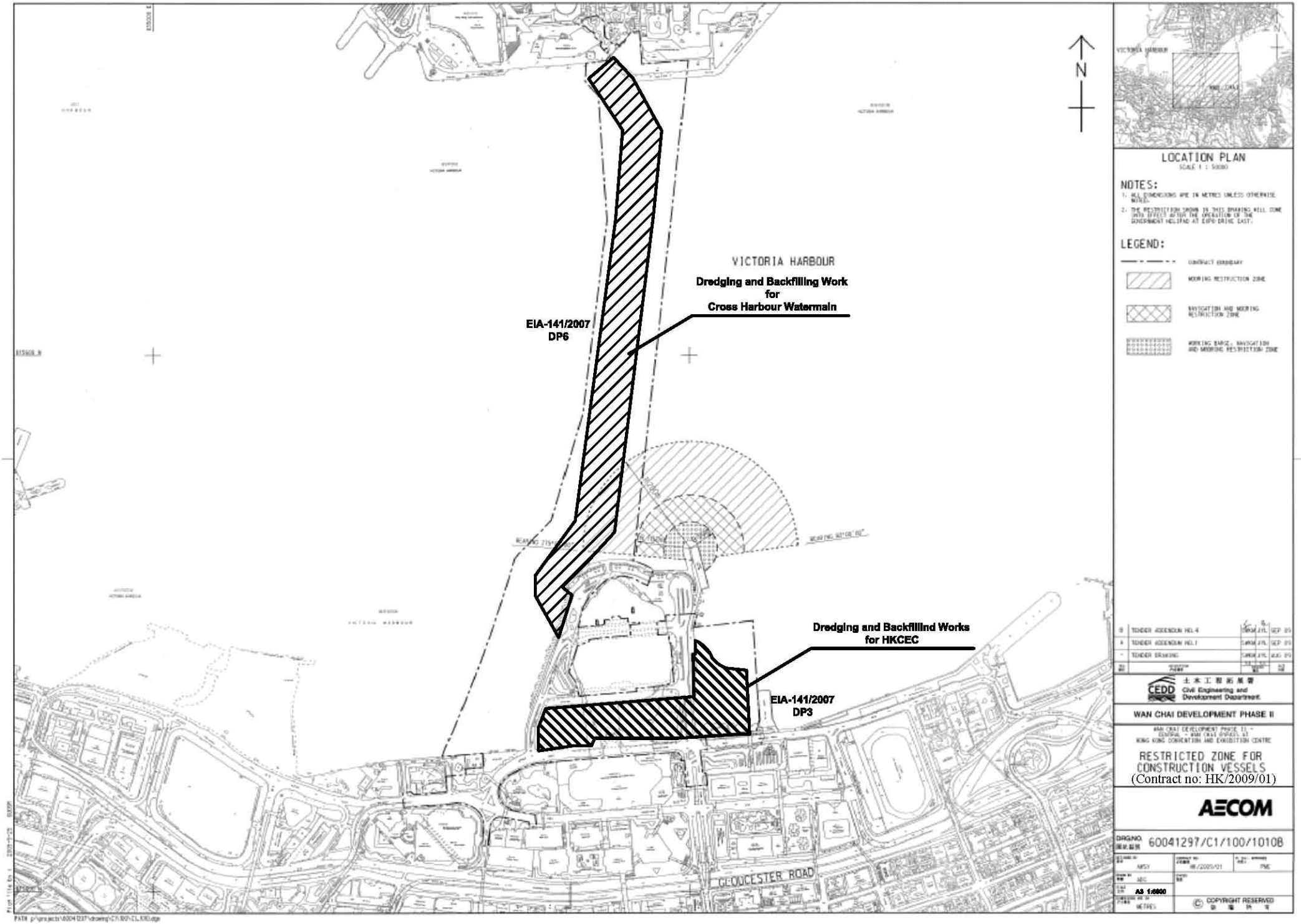
WAN CHAI DEVELOPMENT PHASE II AND CENTRAL – WAN CHAI BYPASS – DAMPING, FIELD MEASUREMENT AND TESTING WORKS (STAGE 1)

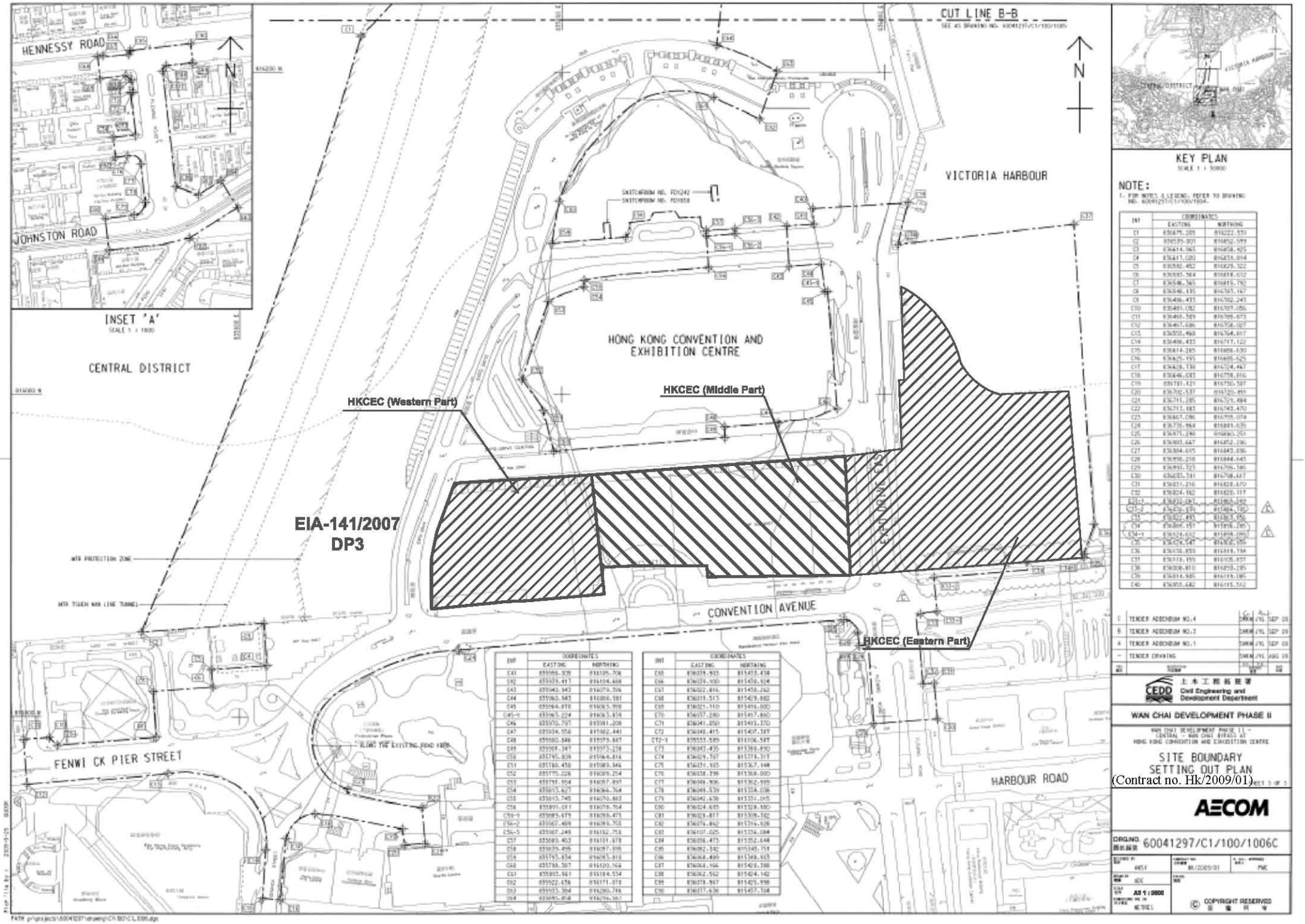
LOCATIONS OF WATER QUALITY MONITORING STATIONS

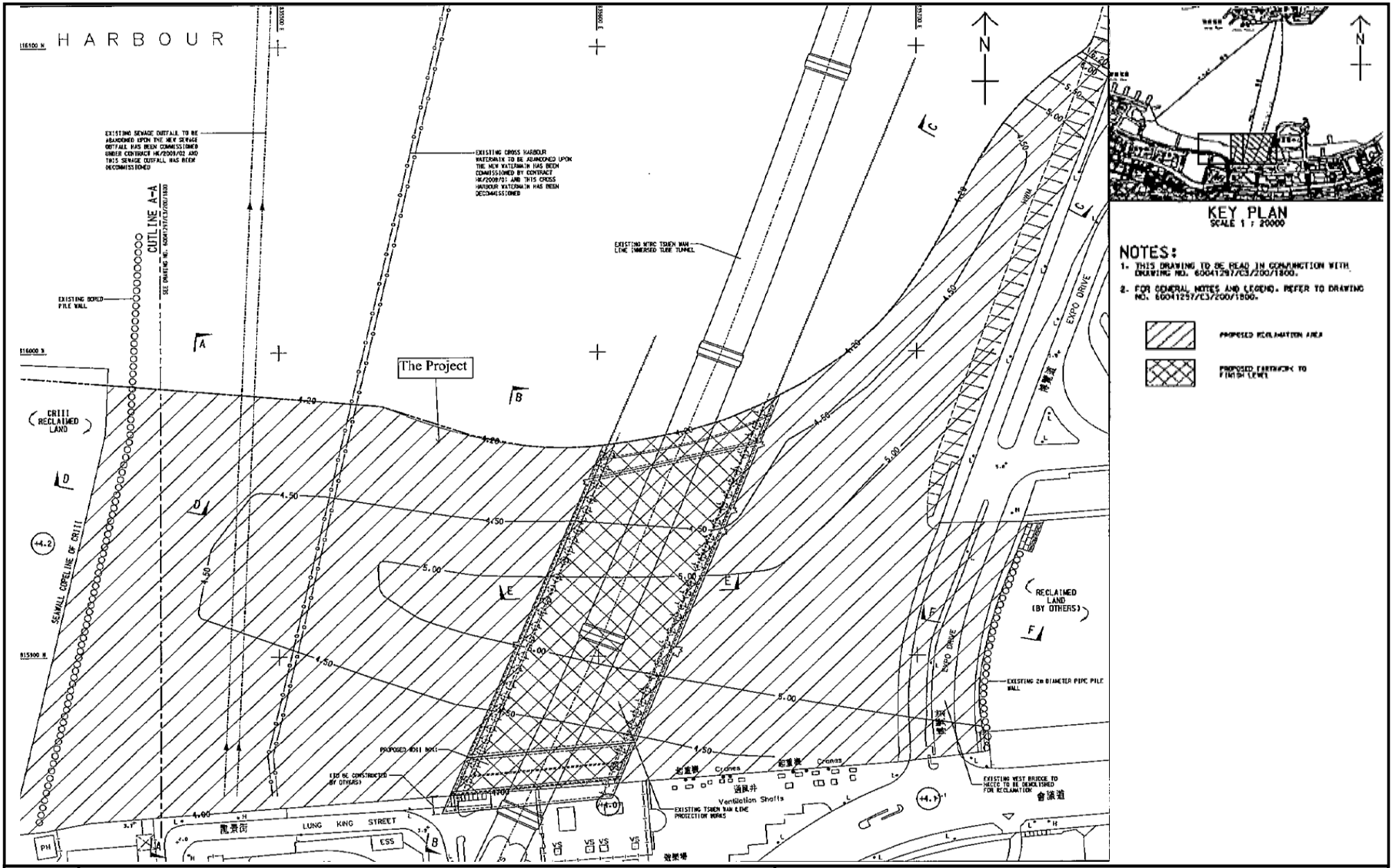
AECOM

DRG.NO. 60041297/C5/SK001


NOTES:
1. SETTING OUT COORDINATES REFER DRG. No. 60095653/NP/1601.
2. THE CONTRACTOR SHALL KEEP OPEN AND PROVIDE ACCESS (PEDESTRIAN AND TRAFFIC) TO THE PUBLIC AT ALL TIMES DURING THE PERIOD OF THE CONTRACTOR'S OCCUPATION OF OIL STREET. THE CONTRACTOR SHALL MAINTAIN THIS PORTION OF SITE IN A CLEAN, PASSABLE AND SAFE STATE AT ALL TIMES.
3. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH DRG. No. 60095653/NP/1652.
LEGEND:
SITE BOUNDARY
PORTION NPR1A
PORTION NPR1
PORTION NPR2
PORTION NPR3
PORTION NPR4
PORTION NPR4A
PORTION NPR4B
PORTION NPR5A
PORTION NPR5B
PORTION NPR5C
PORTION NPR5D
PORTION NPR5E
ISLAND EASTERN CORRIDOR
KING WAH ROAD
WANG ON ROAD
ELECTRIC ROAD
WHITFIELD ROAD
KING MING ROAD
WATSON ROAD
FOOK YUM ROAD
OIL STREET
POWER STREET
HING FAT STREET
CLASS STREET
Elevated Road
Car Park
B WORKING DRAWING RC BCC DEC 09
A TENDER ADDENDUM NO. 1 RC BCC OCT 09
– TENDER DRAWING RC BCC SEP 09
Highways Department 路政署
Major Works Project Management Office
CENTRAL - WAN CHAI BYPASS AND IEC LINK
CENTRAL - WAN CHAI BYPASS - NORTH POINT RECLAMATION
PORTION OF SITE
SHEET 1 OF 2
AECOM
DRG.NO. 60095653/NP/1651B
DESIGNED BY TTF
CONTRACT NO. HY/2009/11
APPROVED CW
DRAWN BY CJH
STATUS WORKING DRAWING
SCALE A1 1 : 1000 A3 1 : 2000
DIMENSIONS ARE IN METRES
© COPYRIGHT RESERVED
p:\project\60095653\drawing\NP\1000\NP_1651.dgn


VICTORIA HARBOUR
Dredging and Backfilling Work
for
Cross Harbour Watermain
EIA-141/2007
DP6
Dredging and Backfillind Works
for HKCEC
EIA-141/2007
DP3
GLOUCESTER ROAD
N
LOCATION PLAN
SCALE 1 : 50000
NOTES:
1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
2. THE RESTRICTION SHOWN IN THIS DRAWING WILL CEASE TO HAVE EFFECT AFTER THE OPERATION OF THE GOVERNMENT HELIPAD AT EASTERN DRIVE EAST.
LEGEND:
CONTRACT BOUNDARY
MOORING RESTRICTION ZONE
NAVIGATION AND MOORING RESTRICTION ZONE
WORKING BARGE, NAVIGATION AND MOORING RESTRICTION ZONE
B TENDER ADDENDUM NO.4 SEP 09
A TENDER ADDENDUM NO.1 SEP 09
- TENDER DRAWING AUG 09
CEDD
土木工程拓展署
Civil Engineering and Development Department
WAN CHAI DEVELOPMENT PHASE II
WAN CHAI DEVELOPMENT PHASE II - EXTERNAL WORKS AT HONG KONG CONVENTION AND EXHIBITION CENTRE
RESTRICTED ZONE FOR CONSTRUCTION VESSELS
(Contract no: HK/2009/01)
AECOM
DRG.NO. 60041297/C1/100/10108
AS 1:6000
METRES
© COPYRIGHT RESERVED

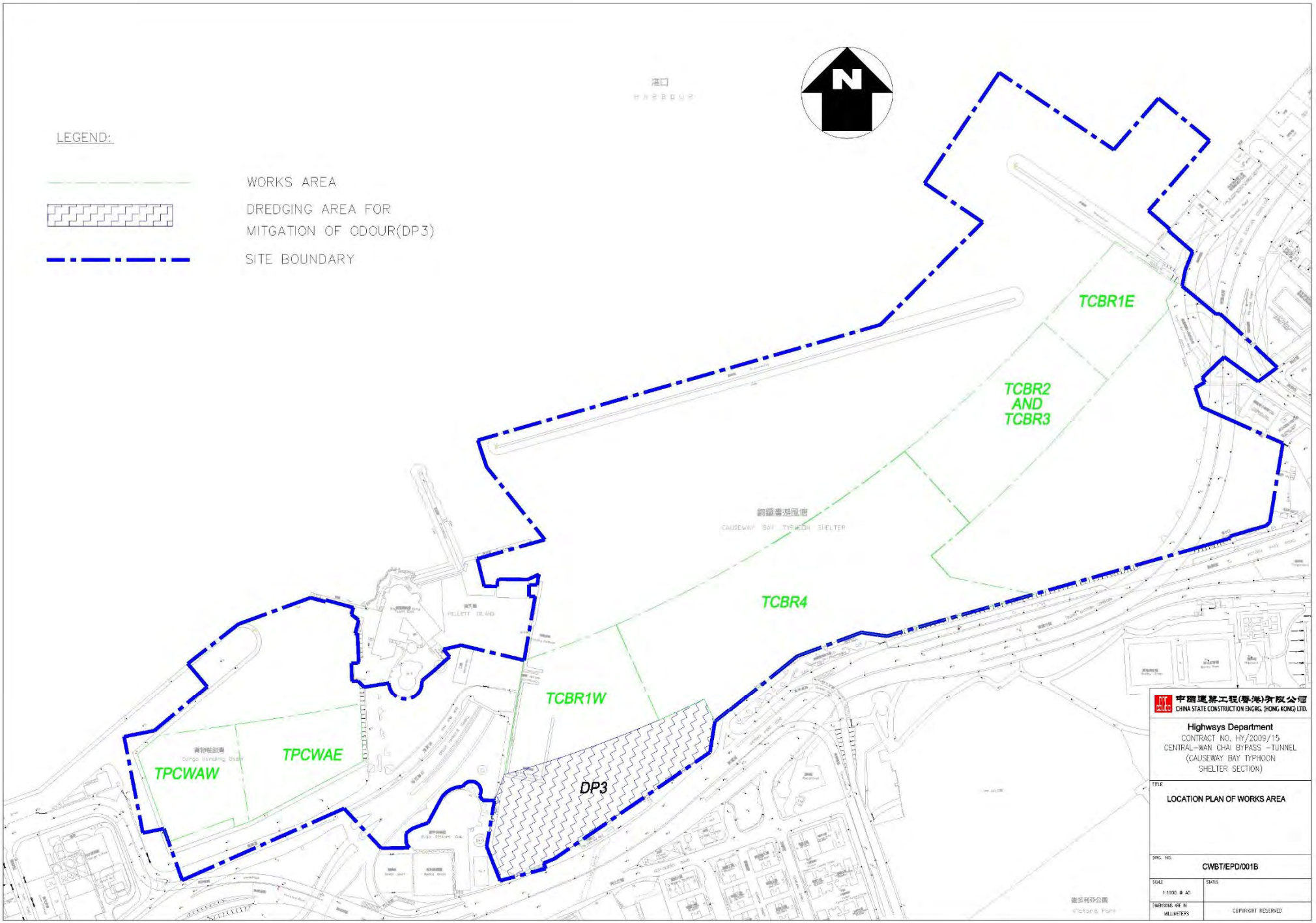

HENNESSY ROAD
JOHNSTON ROAD
INSET 'A'
SCALE 1 : 1000
CENTRAL DISTRICT
CUT LINE B-B
SEE A3 DRAWING NO. 60041297/C1/100/1005
VICTORIA HARBOUR
HONG KONG CONVENTION AND EXHIBITION CENTRE
HKCEC (Western Part)
HKCEC (Middle Part)
HKCEC (Eastern Part)
EIA-141/2007
DP3
MTR PROTECTION ZONE
MTR TSUEN WAN LINE TUNNEL
CONVENTION AVENUE
FENWI CK PIER STREET
HARBOUR ROAD
KEY PLAN
SCALE 1 : 50000
NOTE:
1. FOR NOTES & LEGEND, REFER TO DRAWING NO. 60041297/C1/100/1004.
WAN CHAI DEVELOPMENT PHASE II
WAN CHAI DEVELOPMENT PHASE II - CENTRAL - WAN CHAI BYPASS AT HONG KONG CONVENTION AND EXHIBITION CENTRE
SITE BOUNDARY SETTING OUT PLAN
(Contract no. Hk/2009/01)
Civil Engineering and Development Department
AECOM
DRG.NO. 60041297/C1/100/1006C
AS 1:2000
METRES
© COPYRIGHT RESERVED



Project Title: Wan Chai Development Phase II – Central Wan Chai Bypass at Wan Chai West (Contract No. HK/2012/08) – Marine Works
工程項目名稱: 灣仔發展計劃第二期 - 中環灣仔繞道-灣仔西段(合約編號:HK/2012/08)-海事工程
Environmental Permit No. : FEP-08/356/2009
環境許可證編號 : FEP-08/356/2009

Figure 1b : General Layout of the Project
圖 1b : 工程項目佈局圖

(This figure was prepared based on Figure 1b of Application for Further Environmental Permit (Application No.: FEP 172/2016))
(本圖是根據申請新的環境許可證 (申請書編號 FEP-172/2016) 圖 1b 編製)


LEGEND:
WORKS AREA
DREDGING AREA FOR MITGATION OF ODOUR(DP3)
SITE BOUNDARY
N
TCBR1E
TCBR2 AND TCBR3
TCBR4
TCBR1W
DP3
TPCWAE
TPCWAW
中國建築工程(香港)有限公司
CHINA STATE CONSTRUCTION ENGRG. (HONG KONG) LTD.
Highways Department
CONTRACT NO. HY/2009/15
CENTRAL-WAN CHAI BYPASS -TUNNEL
(CAUSEWAY BAY TYPHOON SHELTER SECTION)
TITLE
LOCATION PLAN OF WORKS AREA
DRG. NO.
CWBT/EPD/001B
SCALE
1:1000 @ A0
STATUS
DIMENSIONS ARE IN MILLIMETERS
COPYRIGHT RESERVED

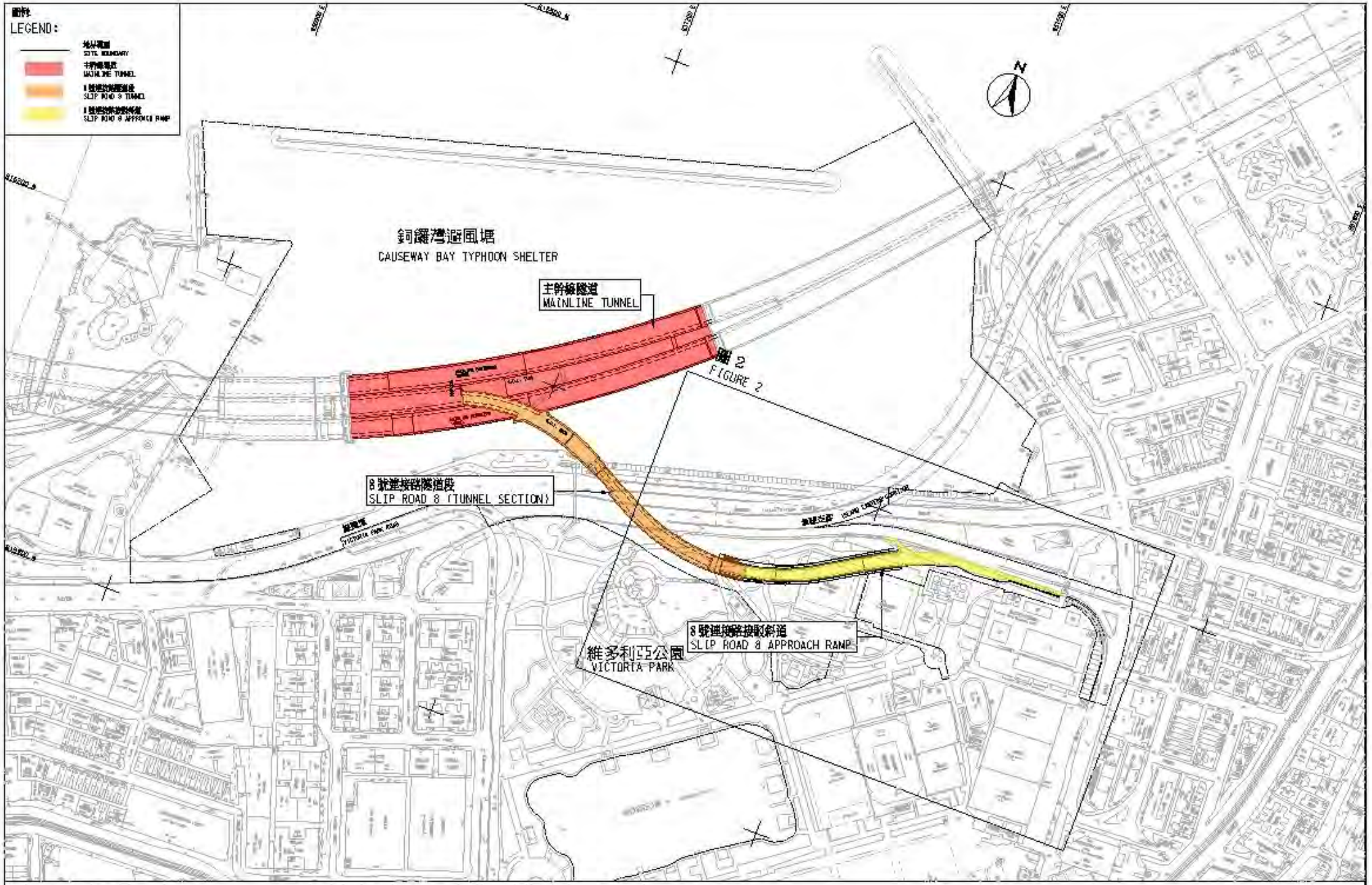
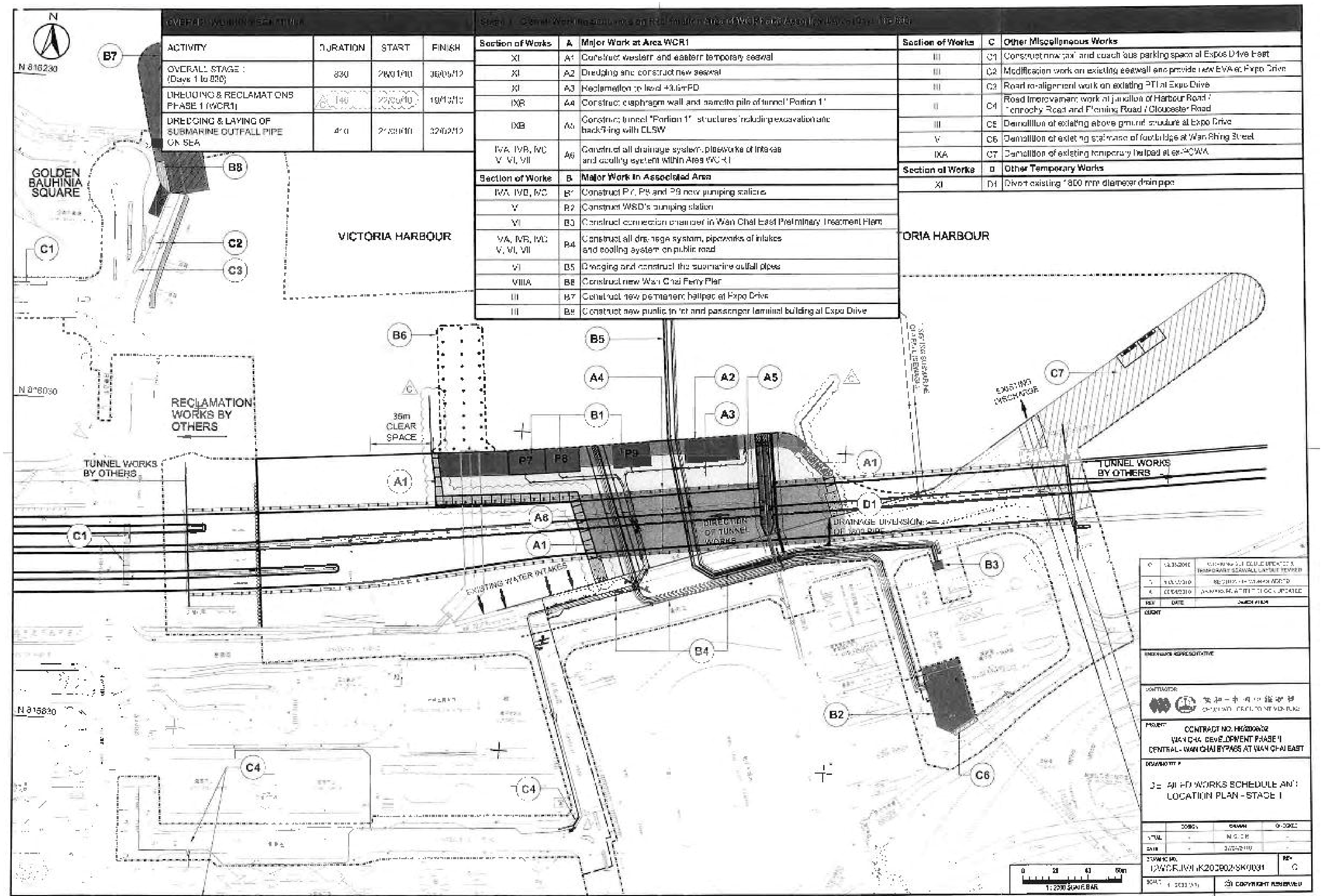


圖1- 合約編號 HY/2010/08中環灣仔繞道-8號連接路段隧道

SCALE 1 : 3000

FIGURE 1 - CONTRACT NO. HY/2010/08 - CENTRAL - WAN CHAI BYPASS - TUNNEL (SLIP ROAD 8 SECTION)

T:\HY_2010_08\Misc\ARE\Docs\Figure for Website\T2 Figure 1.dgn 08-Apr-13



ACTIVITY	DURATION	START	FINISH
OVERALL STAGE : (Days 1 to 830)	830	26/01/10	30/05/12
DREDGING & RECLAMATIONS PHASE 1 (WCR1)	146	22/05/10	19/10/10
DREDGING & LAYING OF SUBMARINE OUTFALL PIPE ON SEA	410	21/09/10	02/02/12

Section of Works	A	Major Work at Area WCR1
XI	A1	Construct western and eastern temporary seawall
XI	A2	Dredging and construct new seawall
XI	A3	Reclamation to level +3.5mPD
IXB	A4	Construct diaphragm wall and barrette pile of tunnel "Portion 1"
IXB	A5	Construct tunnel "Portion 1" structures including excavation and backfilling with CLSW
IVA, IVB, IVC V, VI, VII	A6	Construct all drainage system, pipeworks of intakes and cooling system within Area WCR1

Section of Works	B	Major Work in Associated Area
IVA, IVB, IVC	B1	Construct P7, P8 and P9 new pumping stations
V	B2	Construct WSD's pumping station
VI	B3	Construct connection chamber in Wan Chai East Preliminary Treatment Plant
VA, IVB, IVC V, VI, VII	B4	Construct all drainage system, pipeworks of intakes and cooling system on public road
VI	B5	Dredging and construct the submarine outfall pipes
VIIIA	B6	Construct new Wan Chai Ferry Pier
III	B7	Construct new permanent helipad at Expo Drive
III	B8	Construct new public landing and passenger terminal building at Expo Drive

Section of Works	C	Other Miscellaneous Works
III	C1	Construct new taxi and coach bus parking space at Expo Drive East
III	C2	Modification work on existing seawall and provide new EVA at Expo Drive
III	C3	Road re-alignment work on existing PTI at Expo Drive
II	C4	Road improvement work at junction of Harbour Road / Fenwick Road and Fleming Road / Gloucester Road
III	C5	Demolition of existing above ground structure at Expo Drive
V	C6	Demolition of existing staircase of footbridge at Wan Shing Street
IXA	C7	Demolition of existing temporary helipad at ex-PCWA

Section of Works	D	Other Temporary Works
XI	D1	Divert existing 1800 mm diameter drain pipe

REV	DATE	AMENDMENT
C	12/05/2010	WORKING SCHEDULE UPDATED & TEMPORARY SEAWALL LAYOUT REVISED
B	11/05/2010	SECTION OF WORKS ADDED
A	07/05/2010	DRAWING TITLE BLOCK UPDATED

CLIENT

ENGINEER'S REPRESENTATIVE

CONTRACTOR

CHUN WO - CRGL JOINT VENTURE

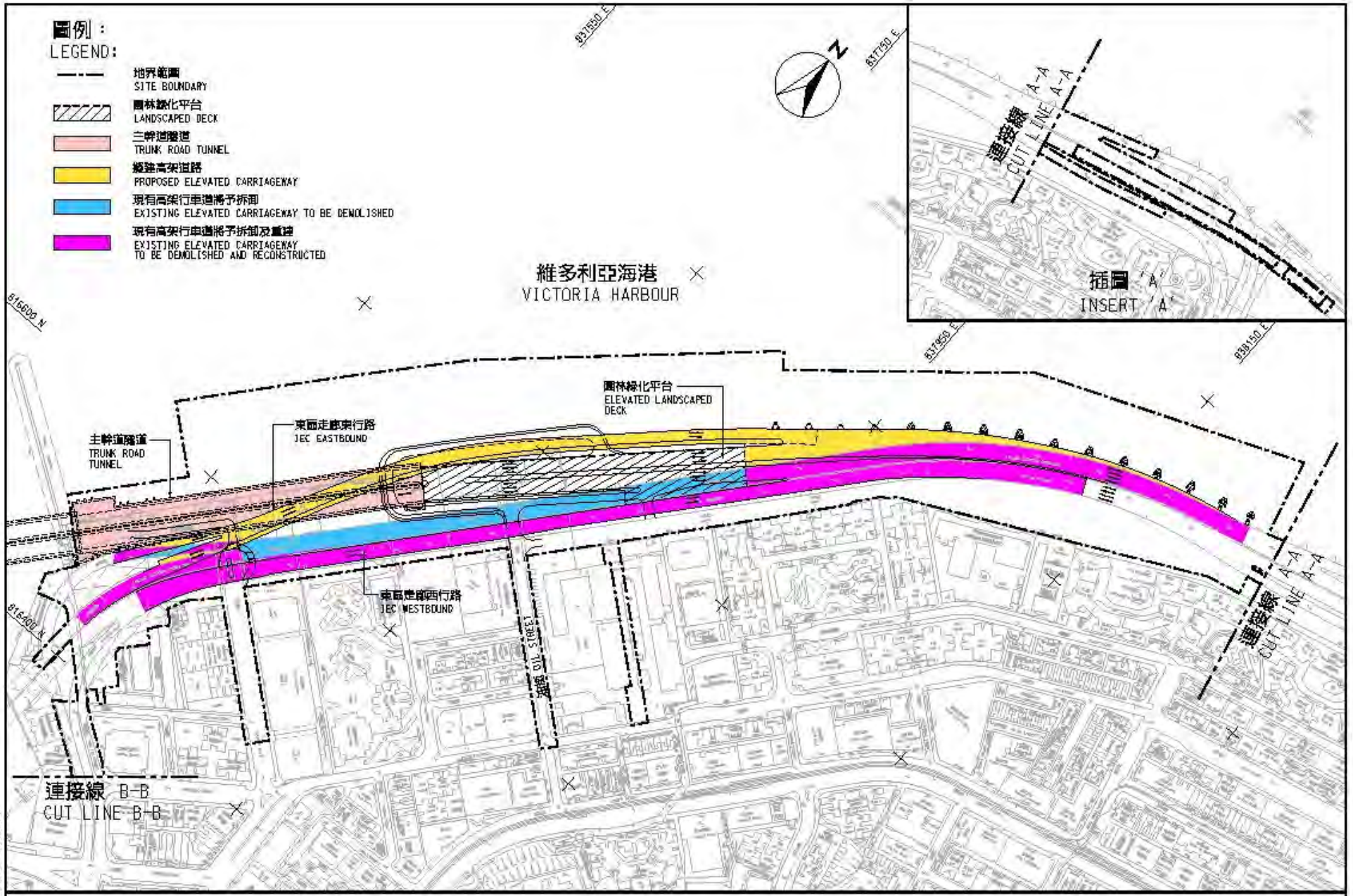
PROJECT
CONTRACT NO. HK/2009/02
WAN CHAI DEVELOPMENT PHASE II
CENTRAL - WAN CHAI BYPASS AT WAN CHAI EAST

DRAWING TITLE
DETAILED WORKS SCHEDULE AND LOCATION PLAN - STAGE 1

	DESIGN	DRAWN	CHECKED
INITIAL	-	N.G.C.B	-
DATE	-	07/05/2010	-

DRAWING NO. CWCRJV/HK200902/SK0031 REV C

SCALE 1:2000 (A3)



合約編號 HY/2009/19 - 中環灣仔繞道 - 北角段隧道及東區走廊連接路

CONTRACT NO. HY/2009/19 - CENTRAL-WAN CHAI BYPASS - TUNNEL (NORTH POINT SECTION) AND ISLAND EASTERN CORRIDOR LINK

SCALE 1 : 3000

Plotted by: ZUUL_NL 2011-1-12

P:\projects\60094653\Drawing\SKETCH\SK3241.dgn

Figure 2.2

Project Organization Chart

Project Organization Chart

Project Proponent

Civil Engineering & Development Department

Mr. L. K. Tsang
Senior Engineer
Tel: 9325 0853
Fax: 2577 5040

Project Proponent

Highways Department

Mr. Eddy Wu
Senior Engineer
Tel: 2762 3508
Fax: 2714 5289

Environmental Protection Department

Mr. Billy Ma
Environmental Protection Officer
Tel: 2835 2390
Fax: 2591 0558

Engineer's Representative for WDII

AECOM

Mr. Frankie Fan
Principal Resident Engineer
Tel: 2587 1778
Fax: 2587 1877

Engineer's Representative for CWB

AECOM

Mr. Peter Poon
Principal Resident Engineer
Tel: 3922 8332
Fax: 3529 2829

Independent Environmental Checker

Ramboll Environ Hong Kong Limited

Mr. David Yeung
Independent Environmental Checker
Tel: 3465 2888
Fax: 3565.2899

HK/2009/01 Contractor

Chun Wo – Leader JV

Mr.Andy Yu
Site Agent
Tel: 2162 9909 Fax: 2634 1626

HK/2009/02 Contractor

Chun Wo – CRGL JV

Mr. Paul Yu
Project Manager
Tel: 3658 3002 Fax: 2827 9996

HK/2012/08 Contractor

China State –Build King Joint Venture

Mr. Keith Tse
Site Agent
Tel: 9037 1839 Fax: 2877 1522

HY/2009/15 Contractor

China State Co. Engineering Ltd.
Mr. Rex Lau
Contractor's Representative
Tel: 3557 6405
Fax: 2865 5229

HY/2009/19 Contractor

Chun Wo- CRGL JV

Mr. David Lau
Site Agent
Tel: 3758 8879
Fax: 2570 8013

HY/2010/08 Contractor

China State Construction Engineering (HK) Ltd.

Mr. Francis Suen
Site Agent
Tel: 6672 0311
Fax: 2566 8061

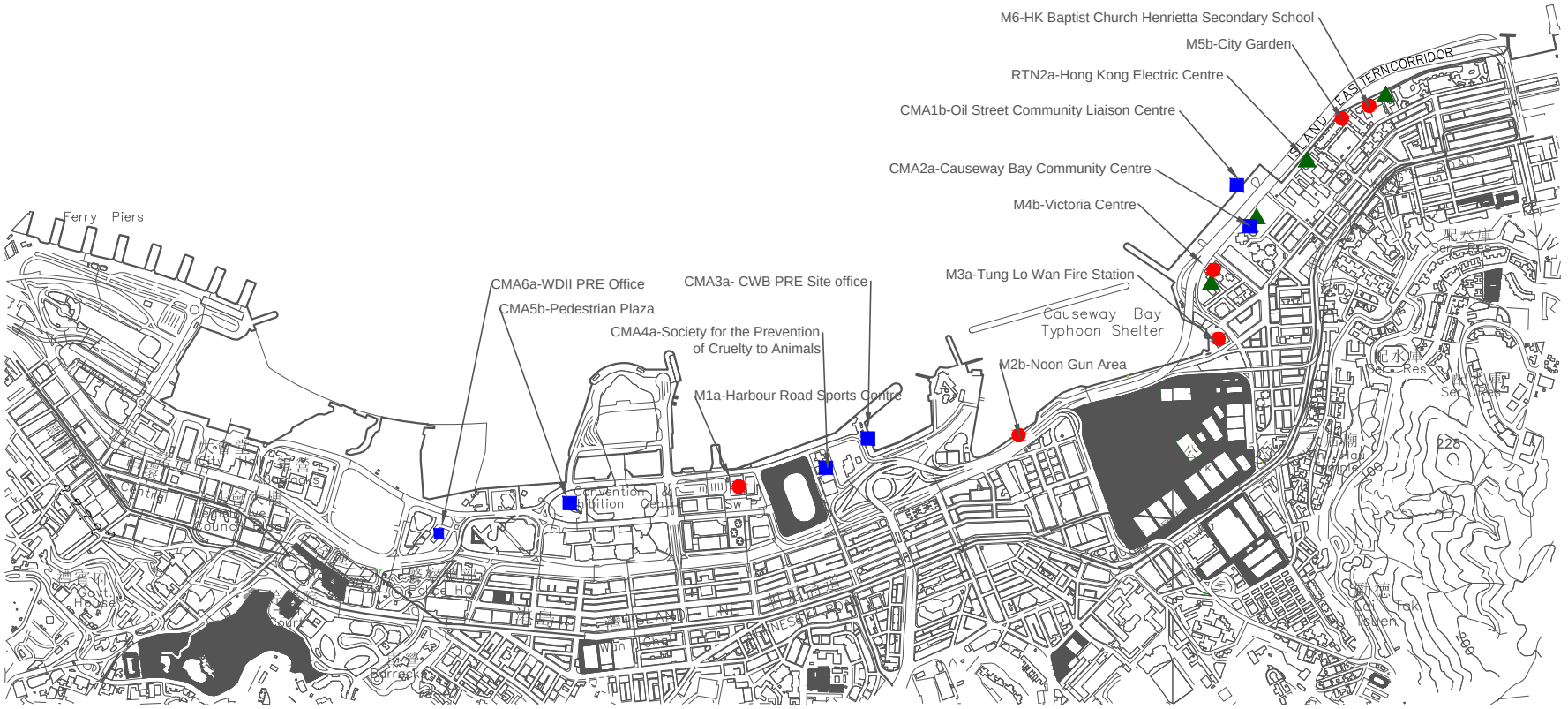
Environmental Team

Lam Geotechnics Limited

Mr. Raymond Dai
Environmental Team Leader
Tel: 2882 3939 Fax: 2882 3331

Figure 4.1

Locations of Monitoring Stations



LOCATIONS OF AIR QUALITY AND NOISE MONITORING STATIONS

Legend

Water 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 On Centre

P5 Government buildings (Wanchai Tower/ Revenue Tower/ Immigration Tower)

C6 Proposed Exhibition Station/ World Trade Centre

C7 Windsor House

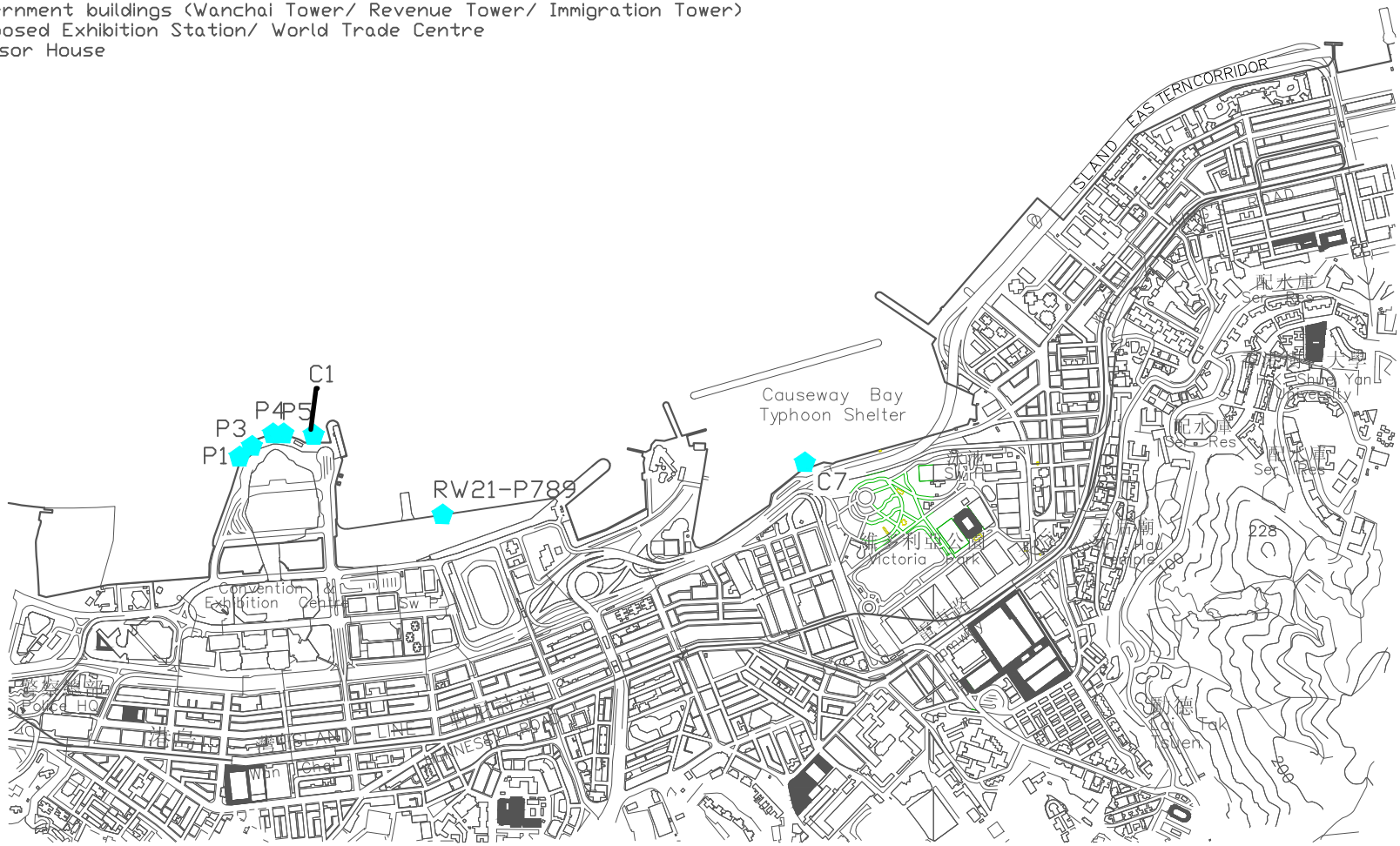


FIGURE	LOCATIONS OF WATER QUALITY MONITORING STATIONS

Legend

Water Quality Monitoring Stations

RW21-P789E (Wanchai WSD intake/ Great Eagle Centre/ China Resources Centre/ Sun Hung Kai Centre)

RW21-P789W (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 On Centre

P5 Government buildings (Wanchai Tower/ Revenue Tower/ Immigration Tower)

C7 Windsor House

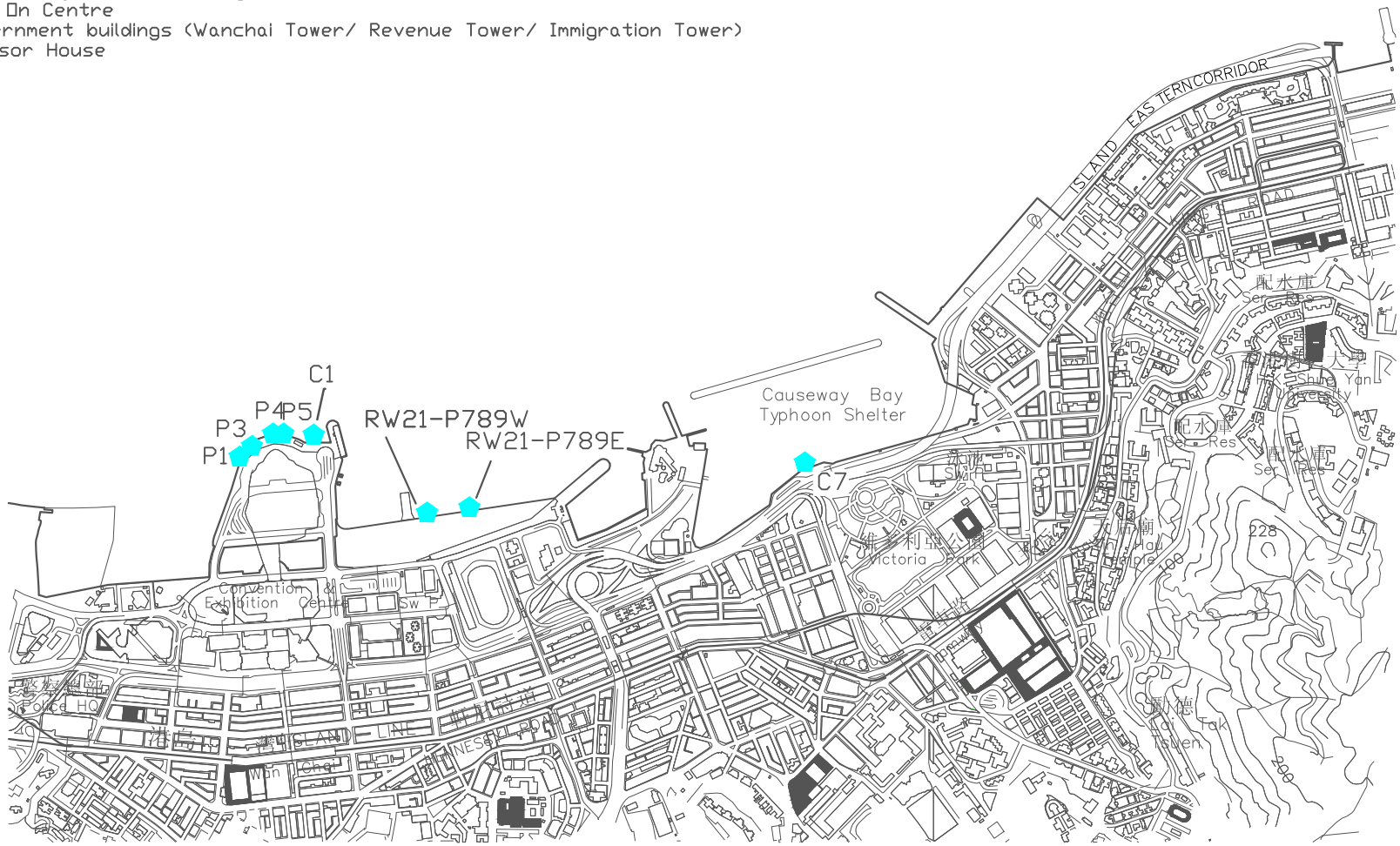


FIGURE	LOCATIONS OF WATER QUALITY MONITORING STATIONS

Legend

Enhance DO 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

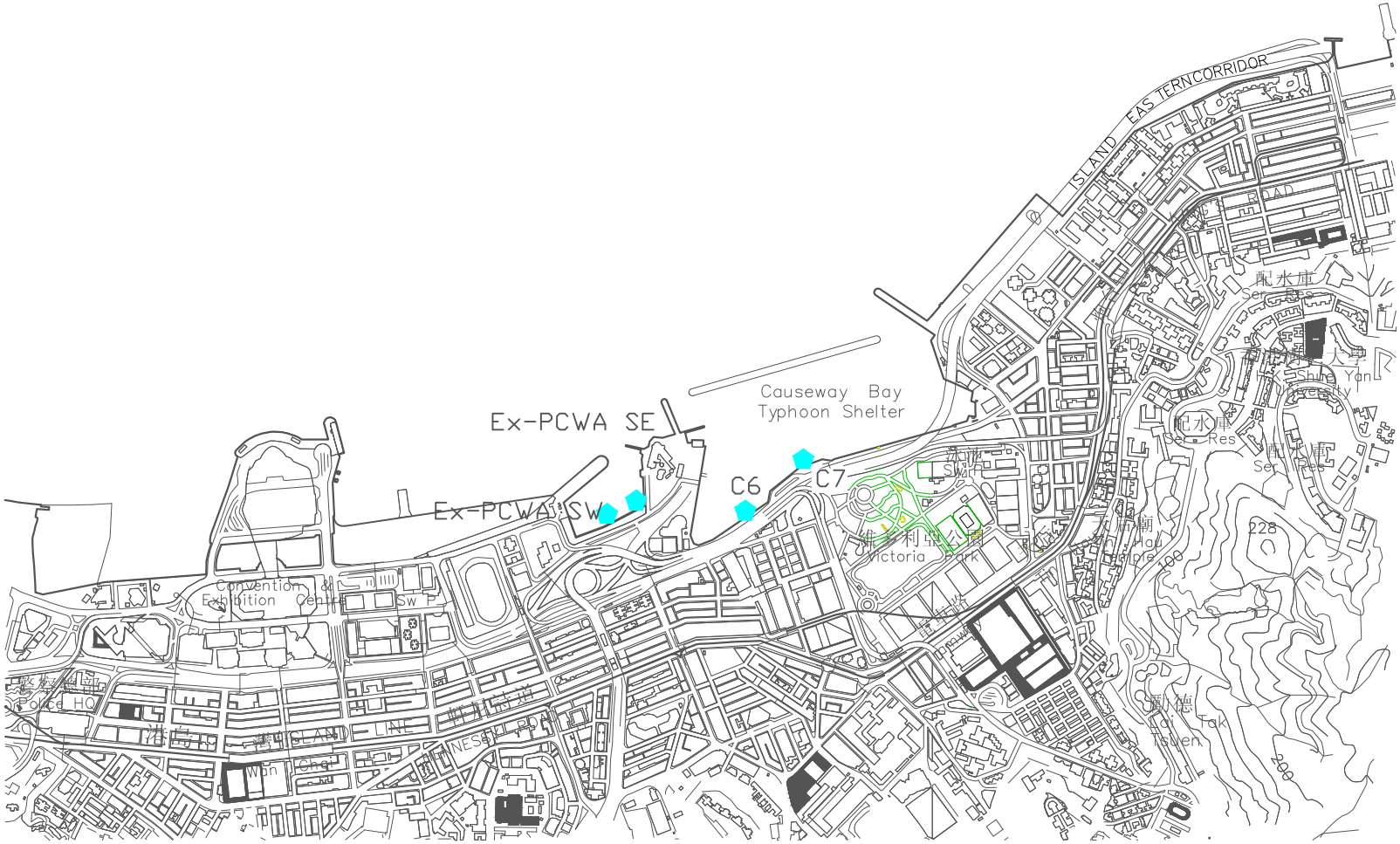


FIGURE	LOCATIONS OF ENHANCE DO MONITORING STATIONS

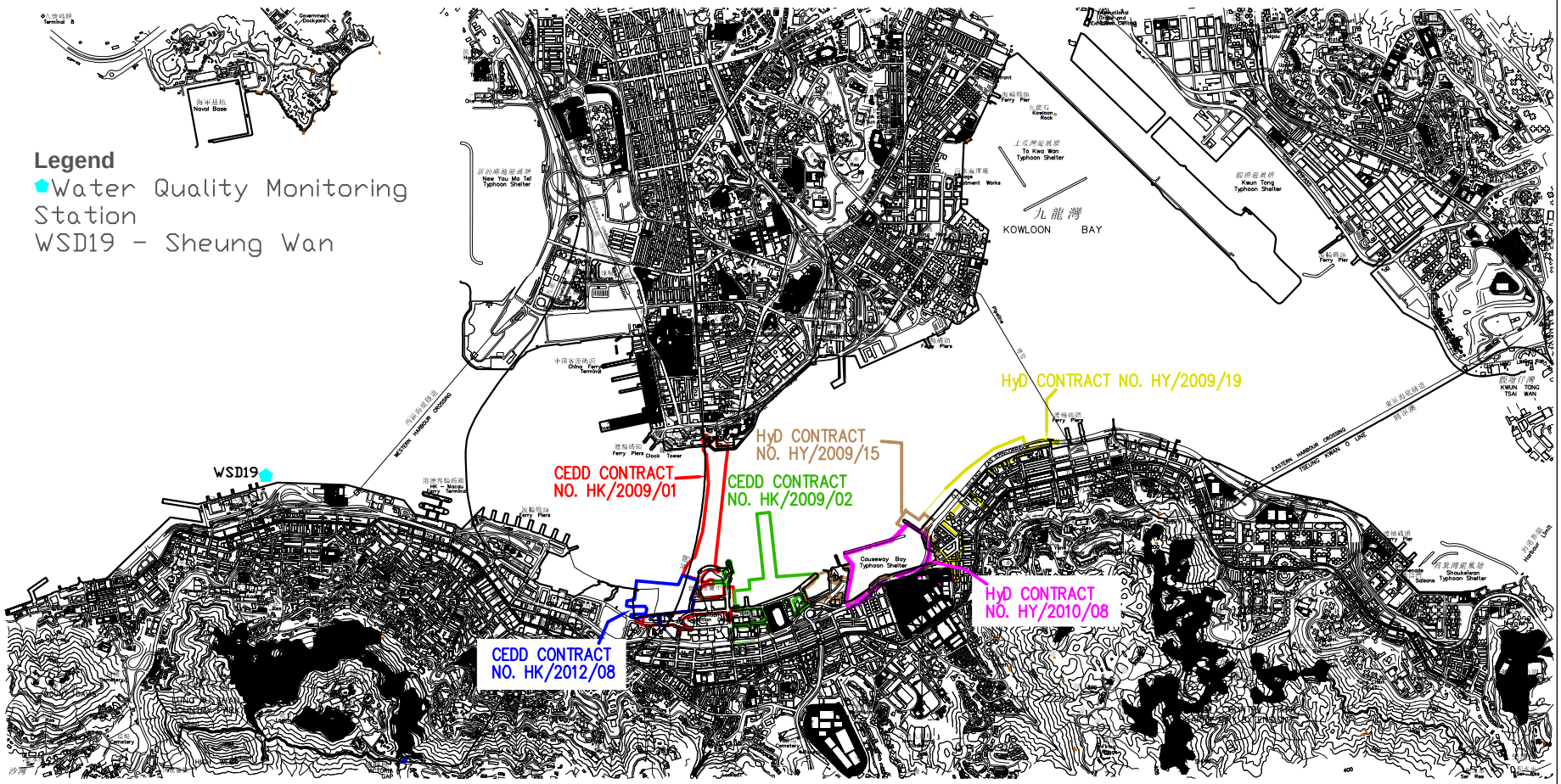


FIGURE	LOCATIONS OF WATER QUALITY MONITORING STATIONS

Appendix 3.1

Environmental Mitigation Implementation Schedule

Environmental Mitigation Implementation Schedule

Implementation Schedule for Air Quality Control

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
Construction Phase								
For the Whole Project								
S3.6.5	Four times a day watering of the work site with active operations.	Work site / during construction	Contractor		√			EIAO-TM
S3.8.1	Implementation of dust suppression measures stipulated in Air Pollution Control (Construction Dust) Regulation. The following mitigation measures, good site practices and a comprehensive dust monitoring and audit programme are recommended to minimise cumulative dust impacts. • Strictly limit the truck speed on site to below 10 km per hour and water spraying to keep the haul roads in wet condition; • Watering during excavation and material handling; • Provision of vehicle wheel and body washing facilities at the exit points of the site, combined with cleaning of public roads where necessary; and • Tarpaulin covering of all dusty vehicle loads transported to, from and between site locations.	Work site / during construction	Contractor		√			

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
S3.5.6	For the dredging activities carried out in the vicinity of Police Officers' Club, the dredging operation will be restricted to only 1 small close grab dredger to minimise the odour impact during the dredging activity. The dredging rate should be reduced as much as practicable for the area in close proximity to the Police Officers' Club. The sediments contain highly contaminated mud which may be disposed with the use of geosynthetic containers (details shall refer to Section 6), grab dredger has to be used for filling up the geosynthetic containers on barges. the dredging rate for the removal of the sediments at the south-west corner of the typhoon shelter shall be slowed down or restricted to specific non-popular hours in weekdays when it is necessary during construction.	Corner of CBTS/implementation of harbour-front enhancement	CEDD[1]		√			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]		√			EIAO-TM
Operation Phase								
For the Whole Project								

[1] CEDD will identify an implementation agent.

[2] CEDD will identify an implementation agent.

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
S3.10.2	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]			√		EIAO-TM
For DP1 – CWB (Within the Project Boundary)								
S3.6.53 – S3.6.54	The design parameters of the East and Central Ventilation Buildings as set in Tables 3.10 and 3.11	East and Central Ventilation Buildings / During operation of the Trunk Road	HyD			√		
S3.10.2	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			√		EIAO-TM

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

Table A13.2 Implementation Schedule for Noise Control

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
Construction Phase								
For the Whole Project								

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
S4.9.4	Good Site Practice: • Only well-maintained plant shall be operated on-site and plant shall be serviced regularly during the construction program. • 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.	Work Sites / During Construction	Contractor		√			EIAO-TM, NCO
For DP1 – CWB (Within the Project Boundary)								

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
S4.8.3 – S4.8.5	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		√			EIAO-TM, NCO
For DP2 – WDII Major Roads (Road P2)								
S4.8.3 – S4.8.4	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		√			EIAO-TM, NCO
For DP3 – Reclamation Works								
S4.8.3 – S4.8.4	Use of quiet powered mechanical equipment for the following task: • Filling behind seawall • Seawall construction	Work Sites / During Construction	Contractor		√			EIAO-TM, NCO

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
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) Use of quiet powered mechanical equipment and movable noise barrier for the following tasks: • Installation of a new pipeline (land section)	Work Sites / During Construction	Contractor		√			EIAO-TM, NCO
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

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

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
S4.8.14 – S4.8.18	• For Existing NSRs • about 235m length of noise semi-enclosure with transparent panel covering the westbound slip road from the IEC • about 230m length of noise semi-enclosure with transparent panel covering the main carriageways (eastbound and westbound) of the CWB and IEC • about 135m length of 5.5m high cantilevered noise barrier with 3m cantilever inclined at 45° with transparent panel on the eastbound slip road to the IEC • about 95m length of 5.5m high cantilevered noise barrier with 1m cantilever inclined at 45° with transparent panel on the eastbound slip road to the IEC • about 350m length of 3.5m high vertical noise barrier with 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	Near North Point / Before commencement of operation of road project	HyD	√	√	√		EIAO-TM
	For Future/Planned NSRs • about 265m length of noise semi-enclosure with transparent panel covering the westbound slip road from the IEC	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	√	√ #			

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

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

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

Table A13.3 Implementation Schedule for Water Quality Control

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
Construction Phase								
For DP3 – Reclamation Works, DP5 (Wan Chai East Sewage Outfall), DP6 (Cross-Harbour Water Mains from Wan Chai to Tsim Sha Tsui), DP1 – CWB (within the Project Boundary)								
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		√			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		√			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		√			EIAO-TM, WPCO

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
S5.8	The water body behind the temporary reclamations within the Causeway Bay typhoon shelter shall not be fully enclosed.	Work site / During the construction period	Contractor		√			EIAO-TM, WPCO
S5.8	As a mitigation measure, to avoid the accumulation of water borne pollutants within the temporary embayment between CRIII and HKCEC1, an impermeable barrier, suspended from a floating boom on the water surface and extending down to the seabed, will be erected by the contractor before the HKCEC1 commences. The barrier will channel the stormwater discharge flows from Culvert L to the outside of the embayment. The contractor will maintain this barrier until the reclamation works in HKCEC2W are carried out and the new Culvert L extension is constructed.	Work site / During the construction period	Contractor		√			EIAO-TM, WPCO
S5.8, Figure 5.3	The total dredging rates in each of the marine works zones shall not be more 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		√			EIAO-TM, WPCO

Reclamation Area		Maximum Dredging Rate		Maximum Dredging Rate (m^3 per week)
		m^3 per day	m^3 per hour (for 16 hrs per day)	
Dredging along seawall or breakwater				
North Point Shoreline Zone (NPR)		6,000	375	42,000
Causeway Bay Shoreline Zone	TBW	1,500	94	10,500
	TCBR	6,000	375	42,000
PCWA Zone		5,000	313	35,000

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
	<table><tr><td colspan="2">Wan Chai Shoreline Zone (WCR)</td><td>6,000</td><td>375</td><td>42,000</td></tr><tr><td rowspan="2">HKCEC Shoreline Zone (HKCEC)</td><td>HKCEC Stage 1 & 3</td><td>1,500</td><td>94</td><td>10,500</td></tr><tr><td>HKCEC Stage 2</td><td>6,000</td><td>375</td><td>42,000</td></tr><tr><td colspan="2">Cross Harbour Water Mains</td><td>1,500</td><td>94</td><td>10,500</td></tr><tr><td colspan="2">Wan Chai East Submarine Sewage Pipeline</td><td>1,500</td><td>94</td><td>10,500</td></tr></table> Note: 1,500 m^3 per day shall be applied for construction of the western seawall of WCR1.							
S5.8, Figure 5.3	Dredging along the seawall at WCR1 shall be undertaken initially at 1,500m^3 per day for construction of the western seawall (which is in close proximity of the WSD intake), followed by partial seawall construction at the western seawall (above high water mark) to protect the adjacent intakes as much as possible from further dredging activities.	Work site / During the construction period	Contractor		√			EIAO-TM, WPCO
S5.8, Figure 5.3	For dredging within the Causeway Bay typhoon shelter, seawall shall be partially constructed to protect the nearby seawater intakes from further dredging activities. For example, at TCBR1W, the southern and eastern seawalls shall be constructed first (above high water mark) so that the seawater intakes at the inner water would be protected from the impacts from the remaining dredging activities along the northern boundary.	Work site / During the construction period	Contractor		√			EIAO-TM, WPCO
S5.8, Figure 5.3	Silt curtains shall be deployed around the closed grab dredgers during seawall dredging and seawall trench filling in the areas of HKCEC, WCR, TCBR and NP.	Work site / During the construction period	Contractor		√			EIAO-TM, WPCO
S5.8, Figure 5.3	Silt screens shall be applied to seawater intakes at interim construction stages as stated below: <table><tr><th>Interim Construction Stage</th><th>Location of Applications</th></tr><tr><td>**Scenario 2A** in early 2009 with concurrent dredging activities at HKCEC, WCR, TPCWA, TBW, NP and Water Mains Zone</td><td>**WSD saltwater intakes** at Sai Wan Ho, Quarry Bay, Sheung Wan, Wan Chai, Kowloon South **Cooling water intakes** for Hong Kong Convention and Exhibition Centre Extension, Hong Kong 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</td></tr><tr><td>**Scenario 2B** in late 2009/2010 with concurrent dredging activities at Sewage Pipelines Zone and TCBR.</td><td>**WSD saltwater intakes** at Sheung Wan, Wan Chai **Cooling water intakes** for Queensway Government Offices, Excelsior Hotel, World Trade Centre and Windsor House.</td></tr><tr><td>**Scenario 2C** in 2011 with concurrent dredging activities at HKCEC and TCBR.</td><td>**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.</td></tr></table>	Work site / During the construction period	Contractor		√			EIAO-TM, WPCO

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
S5.8	Other mitigation measures include: • mechanical grabs, if used, shall be designed and maintained to avoid spillage and sealed tightly while being lifted. For dredging of any contaminated mud, closed watertight grabs must be used; • all vessels shall be sized so that adequate clearance is maintained between vessels and the seabed in all tide conditions, to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash; • all hopper barges and dredgers shall be fitted with tight fitting seals to their bottom openings to prevent leakage of material; • construction activities shall not cause foam, oil, grease, scum, litter or other objectionable matter to be present on the water within the site or dumping grounds; • loading of barges and hoppers shall be controlled to prevent splashing of dredged material into the surrounding water. Barges or hoppers shall not be filled to a level that will cause the overflow of materials or polluted water during loading or transportation; and	Work site / During the construction period	Contractor		√			ProPECC PN 1/94; WPCO (TM-DSS)

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

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

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

[3] CEDD will identify an implementation agent.

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	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.							
S5.8	*Sewage from Construction Work Force* Construction work force sewage discharges on site shall be connected to the existing trunk sewer or sewage treatment facilities. The construction sewage shall be handled by portable chemical toilets prior to the commission of the on-site sewer system. Appropriate numbers of portable toilets shall be provided by a licensed contractor to serve the large number of construction workers over the construction site. The Contractor shall also be responsible for waste disposal and maintenance practices.	Work site / During the construction period	Contractor		√			ProPECC PN 1/94; WPCO (TM-DSS)
S5.8	*Floating Debris and Refuse* Collection and removal of floating refuse shall be performed at regular intervals on a daily basis. The contractor shall be responsible for keeping the water within the site boundary and the neighbouring water free from rubbish.	Work site and adjacent water / During the construction period.	Contractor		√			WPCO

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
S5.8	*Storm Water Discharges* Minimum distances of 100 m shall be maintained between the existing or planned stormwater discharges and the existing or planned WSD flushing water intakes.	Work site and adjacent water / During the design and construction period.	Contractor	√	√			WPCO
Operation Phase								
DP1 – CWB (within the Project Boundary)								
S5.8	For the operation of CWB, a surface water drainage system would be provided to collect road runoff. The following operation stage mitigation measures are recommended to ensure road runoff would comply with the TM under the WPCO: • The drainage from tunnel sections shall be directed through petrol interceptors to remove oil and grease before being discharged to the nearby foul water manholes. • 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,	CWB/During design and operational period	HyD/TD[3]	√		√		WPCO

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

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

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

Table A13.4 Implementation Schedule for Waste Management

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
Construction Phase								
For DP3 – Reclamation Works								
S6.7.2	***Marine Sediments*** 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.	Work site / During the construction period	Contractor		√			ETWB TCW No. 34/2002
S6.7.3	Based on the biological screening results, the Category H (>10xLCEL) sediment which failed the biological testing would require Type 3 special disposal. The volume of Category H sediment from the Causeway Bay typhoon shelter which would require special disposal arrangements is estimated to be approximately 0.05 Mm^3. A feasible containment method is proposed whereby the dredged sediments are sealed in geosynthetic containers and, at the disposal site, the containers would be dropped into the designated contaminated mud pit where they would be covered by further mud disposal and later by the mud pit capping, thereby meeting the requirements for fully confined mud disposal.							

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

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
	• 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.							
S6.6.12	***Floating Refuse*** 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		√			
For the Whole Project								

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

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
S6.7.8	*Waste Reduction Measures* Waste reduction is best achieved at the planning and design stage, as well as by ensuring the implementation of good site practices. Recommendations to achieve waste reduction include: • segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal; • 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.	Work site / During planning and design stage, and construction stage	Contractor	√	√			

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
S6.7.10	*General Refuse* General refuse shall be stored in enclosed bins or compaction units separate from C&D material. A licensed waste collector shall be employed by the contractor to remove general refuse from the site, separately from C&D material. A collection area shall be provided where wastes can be stored and loaded prior to removal from site. An enclosed and covered area is recommended to reduce the occurrence of 'wind blow' light material.	Work site / During the construction period	Contractor		√			Public Health and Municipal Services Ordinance (Cap. 132)
S6.7.11	*Chemical Wastes* After use, chemical wastes (for example, cleaning fluids, solvents, lubrication oil and fuel) shall be handled according to the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. Spent chemicals shall be collected by a licensed collector for disposal at the CWTF or other licensed facility in accordance with the Waste Disposal (Chemical Waste) (General) Regulation.	Work site / During the construction period	Contractor		√			Waste Disposal (Chemical Waste) (General) Regulation Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes
S6.7.12	*Construction and Demolition Material* C&D material shall be sorted on-site into inert C&D material (that is, public fill) and C&D waste. All the suitable inert C&D material shall be broken down to 250 mm in size for reuse as public fill in the WDII reclamation. C&D waste, such as wood, glass, plastic, steel and other metals shall be reused or recycled and, as a last resort, disposed of to landfill. A suitable area shall be designated to facilitate the sorting process and a temporary stockpiling area will be required for the separated materials.	Work site / During the construction period	Contractor		√			ETWB TCW No. 33/2002, 31/2004, 19/2005

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
S6.7.13	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		√			ETWB TCW No. 31/2004
S6.7.14	*Bentonite Slurry* The disposal of residual used bentonite slurry shall follow the good practice guidelines stated in ProPECC PN 1/94 "Construction Site Drainage" and listed as follows: • If the disposal of a certain residual quantity cannot be avoided, the used slurry may be disposed of at the marine spoil grounds subject to obtaining a marine dumping licence from EPD on a case-by-case basis. • If the used bentonite slurry is intended to be disposed of through the public drainage system, it shall be treated to the respective effluent standards applicable to foul sewers, storm drains or the receiving waters as set out in the Technical Memorandum of Standards for Effluents Discharged into Drainage and Sewerage Systems, Inland and Coastal Waters. • If the used bentonite slurry is intended to be disposed to public fill reception facilities, it will be mixed with dry soil on site before disposal.	Work site / During the construction period	Contractor		√			ProPECC PN 1/94

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

Table A13.5 Implementation Schedule for Land Contamination

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
Construction Phase								
For the Whole 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	√				*"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
S7.10	During soil remediation works, the Contractor for the excavation works shall take note of the following points for excavation: • Excavation profiles must be properly designed and executed; • In case the soil to be excavated is situated beneath the groundwater table, it may be necessary to lower the groundwater table by installing well points or similar means; • Quantities of soil to be excavated must be estimated; • It maybe necessary to split quantities of soil according to soil type, degree and nature of contamination. • Temporary storage of soil at intermediate depot or on-site	A King Marine / During soil remediation works	Contractor	√				Air Pollution Control Ordinance Noise Control Ordinance Waste Disposal Ordinance Waste Disposal (Chemical Waste) (General) Regulation

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
	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

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

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
	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 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

Table A13.6 Implementation Schedule for Marine Ecology

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
Construction Phase								
For the Whole 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	√				EIAO TM Annex 16 (Section 8.4) & EIAO Guidance Note No. 3/2002.
For DP3 – Reclamation Works								
S.9.7.3	Translocation of those potentially affected coral colonies to the nearby suitable habitats such as Junk Bay is recommended. A detailed translocation plan (including translocation methodology, monitoring of transplanted corals, etc.) should be drafted and approval by AFCD during the detailed design stage of the Project.	Ex-PCWA Basin and along seawall next to a public pier which is about 250 m away from the CBTS	CEDD/HyD	√				EIAO TM Annex 16 (Section 8.4) & EIAO Guidance Note No. 3/2002.

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
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							

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

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

Table A13.7 Implementation Schedule for Landscape and Visual

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	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	√	√			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	√	√			EIAO TM
Table 10.5	CM3 Trees unavoidably affected by the works shall be transplanted where practical.	Work site / During Construction Phase	Contractor	√	√			EIAO TM
Table 10.5	CM4 Compensatory tree planting shall be provided to compensate for felled trees.	Work site / During Construction Phase	Contractor	√	√			EIAO TM
Table 10.5	CM5 Control of night-time lighting.	Work site / During Construction Phase	Contractor		√			EIAO TM
Table 10.5	CM6 Erection of decorative screen hoarding compatible with the surrounding setting.	Work site / During Construction Phase	Contractor		√			EIAO TM
For DP1 – CWB (Within 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		√			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	√	√			EIAO TM
Table 10.5	CM3 Trees unavoidably affected by the works shall be transplanted where practical.	Work site / During Construction Phase	Contractor	√	√			EIAO TM
Table 10.5	CM4 Compensatory tree planting shall be provided to compensate for felled trees.	Work site / During Construction Phase	Contractor	√	√			EIAO TM
Table 10.5	CM5 Control of night-time lighting.	Work site / During Construction Phase	Contractor		√			EIAO TM

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
Table 10.5	CM6 Erection of decorative screen hoarding compatible with the surrounding setting.	Work site / During Construction Phase	Contractor		√			EIAO TM
For DP2 – WDII Major 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	√	√			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	√	√			EIAO TM
Table 10.5	CM3 Trees unavoidably affected by the works shall be transplanted where practical.	Work site / During Construction Phase	Contractor	√	√			EIAO TM
Table 10.5	CM4 Compensatory tree planting shall be provided to compensate for felled trees.	Work site / During Construction Phase	Contractor	√	√			EIAO TM
Table 10.5	CM5 Control of night-time lighting.	Work site / During Construction Phase	Contractor		√			EIAO TM
Table 10.5	CM6 Erection of decorative screen hoarding compatible with the surrounding setting.	Work site / During Construction Phase	Contractor		√			EIAO TM
For DP3 – Reclamation Works								
Table 10.5	CM5 Control of night-time lighting.	Work site / During Construction Phase	Contractor		√			EIAO TM
Table 10.5	CM6 Erection of decorative screen hoarding compatible with the surrounding setting.	Work site / During Construction Phase	Contractor		√			EIAO TM
For DP5 – Wan Chai East Sewage Outfall								
Refer to EIA-058/2001 Table 10.13	CM2 Minimisation of works areas.	Work site / During Construction Phase	Contractor		√			EIAO TM
Refer to EIA-058/2001 Table 10.13	CM3 Erection of decorative hoardings.	Work site / During Construction Phase	Contractor		√			EIAO TM

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
Refer to EIA-058/2001 Table 10.13	CM4 Control night-time lighting.	Work site / During Construction Phase	Contractor		√			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		√			EIAO TM
For DP6 – Cross-Harbour Water Mains from Wan Chai to Tsim Sha Tsui								
Refer to EIA-058/2001 Table 10.13	CM2 Minimisation of works areas.	Work site / During Construction Phase	Contractor		√			EIAO TM
Refer to EIA-058/2001 Table 10.13	CM3 Erection of decorative hoardings.	Work site / During Construction Phase	Contractor		√			EIAO TM
Refer to EIA-058/2001 Table 10.13	CM4 Control night-time lighting.	Work site / During Construction Phase	Contractor		√			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		√			EIAO TM
Operation Phase								
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	√	√	√		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	√	√	√		ETWB TCW 2/2004

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
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/	√	√	√		ETWB TCW 2/2004
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[4]	√	√	√		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	√	√	√		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1-10.5.5	OM6 Aesthetic design of roadside amenity areas.	Work site / During Design Stage and Operation Phases	CEDD/HyD	√	√	√		ETWB TCW 2/2004
For DP1 – CWB (Within the Project Boundary)								
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	HyD	√	√	√		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	HyD	√	√	√		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	HyD	√	√	√		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	HyD	√	√	√		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1-10.5.5	OM6 Aesthetic design of roadside amenity areas.	Work site / During Design Stage and Operation Phases	HyD	√	√	√		ETWB TCW 2/2004
For DP2 – WDII Major Roads (Road P2)								

[4] CEDD will identify an implementation agent

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	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		√	√		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		√	√		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		√	√		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1-10.5.5	OM6 Aesthetic design of roadside amenity areas	Work site / During Design Stage and Operation Phases	CEDD/HyD		√	√		ETWB TCW 2/2004
For DP3 – Reclamation Works								
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]	√	√	√		ETWB TCW 2/2004

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

[5] CEDD will identify an implementation agent

Appendix 4.1

Action and Limit Level

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 $\mu g/m^3$		24-hour TSP Level in $\mu g/m^3$	
	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 Season		Wet Season	
	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	
		Action	Limit	Action	Limit
C6	Surface and Middle	3.13	2.00	2.60	2.00
	Bottom	4.14	3.33	2.91	2.34
C7	Surface and Middle	3.87	3.09	3.31	2.57
	Bottom	3.91	3.53	2.75	2.48
Ex-WPCWA SW	Surface and Middle	3.84	3.73	3.19	3.10
	Bottom	4.71	4.63	3.31	3.25
Ex-WPCWA SE	Surface and Middle	4.26	3.61	3.55	3.00
	Bottom	5.36	5.35	3.76	3.76

Action and Limit Levels for Odour Patrol

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

Appendix 4.2

Copies of Calibration Certificates

綜合試驗有限公司
SOILS & MATERIALS ENGINEERING CO., LTD.
香港黃竹坑道37號利達中心12樓
12/F., Leader Centre, 37 Wong Chuk Hang Road, Aberdeen, Hong Kong.
E-mail: smec@cigismec.com Website: www.cigismec.com
Tel: (852) 2873 6860
Fax: (852) 2555 7533

HOKLAS 028 CAL

CERTIFICATE OF CALIBRATION

Certificate No.: 16CA1117 01-01

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:	-	,	-

Item submitted by

Customer Name:	Lam Geotechnics Limited
Address of Customer:	-
Request No.:	-
Date of receipt:	17-Nov-2016

Date of test: 18-Nov-2016

Reference equipment used in the calibration

Description:	Model:	Serial No.	Expiry Date:	Traceable to:
Multi function sound calibrator	B&K 4226	2288444	18-Jun-2017	CIGISMEC
Signal generator	DS 360	33873	18-Apr-2017	CEPREI
Signal generator	DS 360	61227	18-Apr-2017	CEPREI

Ambient conditions

Temperature:	23 ± 1 °C
Relative humidity:	50 ± 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: Huang Jian Min/Feng Jun Qi **Date:** 21-Nov-2016 **Company Chop:** SOILS & MATERIALS ENGINEERING COMPANY LTD. 綜合試驗有限公司

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.

綜合試驗有限公司
SOILS & MATERIALS ENGINEERING CO., LTD.
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Tel: (852) 2873 6860
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HOKLAS 028 CAL

CERTIFICATE OF CALIBRATION

(Continuation Page)

Certificate No.: 16CA1117 01-01 Page 2 of 2

1, Electrical Tests

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 Uncertainty (dB)	Coverage Factor
Self-generated noise	A	Pass	0.3	
	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	
	C	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 Uncertainty (dB)	Coverage Factor
Acoustic response	Weighting A at 125 Hz	Pass	0.3	
	Weighting A at 8000 Hz	Pass	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.

- End -

Calibrated by: Fung Chi Yip Date: 18-Nov-2016

Checked by: Lam Tze Wai Date: 21-Nov-2016

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.

綜合試驗有限公司
SOILS & MATERIALS ENGINEERING CO., LTD.
香港黃竹坑道37號利達中心12樓
12/F., Leader Centre, 37 Wong Chuk Hang Road, Aberdeen, Hong Kong.
E-mail: smec@cigismec.com Website: www.cigismec.com
Tel: (852) 2873 6860
Fax: (852) 2555 7533

CERTIFICATE OF CALIBRATION

Certificate No.: 16CA0513 01-02 **Page:** 1 **of** 2

Item tested

Description:	Acoustical Calibrator (Class 1)
Manufacturer:	Rion Co., Ltd.
Type/Model No.:	NC-73
Serial/Equipment No.:	10465798
Adaptors used:	-

Item submitted by

Curstomer:	Lam Geotechnics Ltd.
Address of Customer:	-
Request No.:	-
Date of receipt:	13-May-2016

Date of test: 17-May-2016

Reference equipment used in the calibration

Description:	Model:	Serial No.	Expiry Date:	Traceable to:
Lab standard microphone	B&K 4180	2412857	14-Apr-2017	SCL
Preamplifier	B&K 2673	2239857	28-Apr-2017	CEPREI
Measuring amplifier	B&K 2610	2346941	26-Apr-2017	CEPREI
Signal generator	DS 360	61227	18-Apr-2017	CEPREI
Digital multi-meter	34401A	US36087050	18-Apr-2017	CEPREI
Audio analyzer	8903B	GB41300350	19-Apr-2017	CEPREI
Universal counter	53132A	MY40003662	19-Apr-2017	CEPREI

Ambient conditions

Temperature:	22 ± 1 °C
Relative humidity:	55 ± 10 %
Air pressure:	1010 ± 5 hPa

Test specifications

1. The Sound Calibrator has been calibrated in accordance with the requirements as specified in IEC 60942 1997 Annex B and the lab calibration procedure SMTP004-CA-156.
2. The calibrator was tested with its axis vertical facing downwards at the specific frequency using insert voltage technique.
3. The results are rounded to the nearest 0.01 dB and 0.1 Hz and have not been corrected for variations from a reference pressure of 1013.25 hectoPascals as the maker's information indicates that the instrument is insensitive to pressure changes.

Test results

This is to certify that the sound calibrator conforms to the requirements of annex B of IEC 60942: 1997 for the conditions under which the test was performed. This does not imply that the sound calibrator meets IEC 60942 under any other conditions.

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

Approved Signatory: Huang Jian Min/Feng Jun Qi **Date:** 18-May-2016 **Company Chop:**

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

綜合試驗有限公司
SOILS & MATERIALS ENGINEERING CO., LTD.
香港黃竹坑道37號利達中心12樓
12/F., Leader Centre, 37 Wong Chuk Hang Road, Aberdeen, Hong Kong.
E-mail: smec@cigismec.com Website: www.cigismec.com
Tel: (852) 2873 6860
Fax: (852) 2555 7533

HOKLAS 028 CAL

CERTIFICATE OF CALIBRATION

(Continuation Page)

Certificate No.: 16CA0513 01-02 **Page:** 2 **of** 2

1, Measured Sound Pressure Level

The output Sound Pressure Level in the calibrator head was measured at the setting and frequency shown using a calibrated laboratory standard microphone and insert voltage technique. The results are given in below with the estimated uncertainties.

(Output level in dB re 20 μPa)

Frequency Shown Hz	Output Sound Pressure Level Setting dB	Measured Output Sound Pressure Level dB	Estimated Expanded Uncertainty dB
1000	94.00	93.96	0.10

2, Sound Pressure Level Stability - Short Term Fluctuations

The Short Term Fluctuations was determined by measuring the maximum and minimum of the fast weighted DC output of the B&K 2610 measuring amplifier over a 20 second time interval as required in the standard. The Short Term Fluctuation was found to be:

At 1000 Hz **STF = 0.001 dB**

Estimated expanded uncertainty 0.005 dB

3, Actual Output Frequency

The determination of actual output frequency was made using a B&K 4180 microphone together with a B&K 2673 preamplifier connected to a B&K 2610 measuring amplifier. The AC output of the B&K 2610 was taken to an universal counter which was used to determine the frequency averaged over 20 second of operation as required by the standard. The actual output frequency at 1 KHz was:

At 1000 Hz **Actual Frequency = 967.3 Hz**

Estimated expanded uncertainty 0.1 Hz Coverage factor k = 2.2

4, Total Noise and Distortion

For the Total Noise and Distortion measurement, the unfiltered AC output of the B&K 2610 measuring amplifier was connected to an Agilent Type 8903 B distortion analyser. The TND result at 1 KHz was:

At 1000 Hz **TND = 0.8 %**

Estimated expanded uncertainty 0.7 %

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.

- End -

Calibrated by: Fung Chi Yip **Date:** 17-May-2016

Checked by: Lam Tze Wai **Date:** 18-May-2016

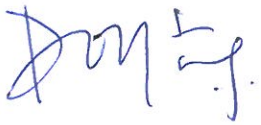
The standard(s) and equipment used in the calibration are traceable to national or international recognised standards and are calibrated on a schedule to maintain the required accuracy level.

PILOT TESTING

EQUIPMENT PERFORMANCE CHECK / CALIBRATION REPORT

Report No.	:	HK1610567
Project Name	:	EQUIPMENT PERFORMANCE CHECK/CALIBRATION REPORT
Date of Issue	:	25/10/2016
Customer	:	LAM GEOTECHNICS LIMITED
Address	:	11/F., CENTRE POINT, 181-185 GLOUCESTER ROAD, WAN CHAI, HONG KONG
Calibration Job No.	:	HK1610567
Test Item No.	:	HK1610567-01
Test Item Details		
Test Item Description	:	Multifunctional Meter
Manufacturer	:	YSI
Model No.	:	Professional Plus
Serial No.	:	16J100298
Performance Method	:	Checked according to in-house method CAL005 (References: Temperature (Section 6 of International 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	:	20-Oct-16
Test Item Calibration Date	:	24-Oct-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: 25/10/2016

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

PILOT TESTING

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

WORK ORDER: HK1610567
DATE OF ISSUE: 25/10/2016
CLIENT: LAM GEOTECHNICS LIMITED

Equipment Type	Multifunctional Meter
Manufacturer	YSI
Model No.	Professional Plus
Serial No.	16J100298
Date of Calibration	24-Oct-16
Date of next Calibation	24-Jan-17

Parameters:

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

Reference Reading (°C)	Display Reading (°C)	Deviation (°C)
4.5	4.7	0.2
15.0	14.9	-0.1
24.6	24.6	0.0
	Tolerance 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	4.00	3.92	-0.08
7.0	6.96	7.07	0.11
10.0	9.98	9.97	-0.01
	Tolerance Limit		±0.20

Conductivity (Method Ref: APHA 19e, 2510)

KCl concentration (mol/L)	Reference Reading (ms/cm)	Display Reading (ms/cm)	Deviation (%)
0.0000	0.00	0.00	--
0.1000	12.81	12.87	0.47
0.2000	25.20	24.92	-1.11
0.5000	58.80	58.60	-0.34
	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)
7.00	7.10	0.10
4.76	4.79	0.03
4.64	4.61	-0.03
	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.

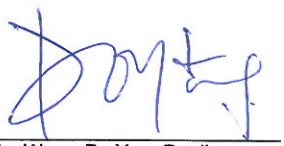
- End of Report -

PILOT TESTING

EQUIPMENT PERFORMANCE CHECK / CALIBRATION REPORT

Report No.	:	HK1710077
Project Name	:	EQUIPMENT PERFORMANCE CHECK/CALIBRATION REPORT
Date of Issue	:	27/01/2017
Customer	:	LAM GEOTECHNICS LIMITED
Address	:	11/F., CENTRE POINT, 181-185 GLOUCESTER ROAD, WAN CHAI, HONG KONG
Calibration Job No.	:	HK1710077
Test Item No.	:	HK1710077-01
Test Item Details		
Test Item Description	:	Sonde
Manufacturer	:	YSI
Model No.	:	Professional Plus
Serial No.	:	14E100105
Performance Method	:	Checked according to in-house method CAL005 (References: Temperature (Section 6 of International 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	:	25/01/2017
Test Item Calibration Date	:	26/01/2017

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: 27/01/2017

Pilot Testing Limited
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Tel: (852) 2527 6691 email: test@pilot-testing.com

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

WORK ORDER: HK1710077
DATE OF ISSUE: 27/01/2017
CLIENT: LAM GEOTECHNICS LIMITED

Equipment Type	Sonde
Manufacturer	YSI
Model No.	Professional Plus
Serial No.	14E100105
Date of Calibration	26-Jan-17
Date of next Calibation	26-Apr-17

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

Reference Reading (°C)	Display Reading (°C)	Deviation (°C)
7.2	7.2	0.0
14.9	15.1	0.2
29.4	29.0	-0.4
	Tolerance 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	3.97	3.90	-0.07
7.0	7.00	7.17	0.17
10.0	10.00	9.95	-0.05
	Tolerance Limit		±0.20

Conductivity (Method Ref: APHA 19e, 2510)

KCl concentration (mol/L)	Reference Reading (ms/cm)	Display Reading (ms/cm)	Deviation (%)
0.0000	0.00	0.00	--
0.1000	11.82	11.59	-1.95
0.2000	22.60	22.35	-1.11
0.5000	51.30	50.50	-1.56
	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)
9.90	9.98	0.08
8.30	8.17	-0.13
7.68	7.57	-0.11
	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.

- End of Report -

PILOT TESTING

EQUIPMENT PERFORMANCE CHECK / CALIBRATION REPORT

Report No.	:	HK1610730
Project Name	:	EQUIPMENT PERFORMANCE CHECK/CALIBRATION REPORT
Date of Issue	:	23/12/2016
Customer	:	LAM GEOTECHNICS LIMITED
Address	:	11/F., CENTRE POINT, 181-185 GLOUCESTER ROAD, WAN CHAI, HONG KONG
Calibration Job No.	:	HK1610730
Test Item No.	:	HK1610730-01
Test Item Details		
Test Item Description	:	Sonde
Manufacturer	:	YSI
Model No.	:	Professional Plus
Serial No.	:	14M100277
Performance Method	:	Checked according to in-house method CAL005 (References: Temperature (Section 6 of International 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	:	22-Dec-16
Test Item Calibration Date	:	23-Dec-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: 23/12/2016

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

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

WORK ORDER: HK1610730
DATE OF ISSUE: 23/12/2016
CLIENT: LAM GEOTECHNICS LIMITED

Equipment Type	Sonde
Manufacturer	YSI
Model No.	Professional Plus
Serial No.	14M100277
Date of Calibration	23-Dec-16
Date of next Calibation	24-Mar-17

Parameters:

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

Reference Reading (°C)	Display Reading (°C)	Deviation (°C)
9.6	9.4	-0.2
19.1	19.3	0.2
28.1	28.3	0.2
	Tolerance 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	4.07	4.10	0.03
7.0	6.95	7.04	0.09
10.0	9.92	9.90	-0.02
	Tolerance Limit		±0.20

Conductivity (Method Ref: APHA 19e, 2510)

KCl concentration (mol/L)	Reference Reading (ms/cm)	Display Reading (ms/cm)	Deviation (%)
0.0000	0.00	0.00	--
0.1000	12.40	12.37	-0.24
0.2000	23.80	23.36	-1.85
0.5000	53.10	52.80	-0.56
	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)
8.96	9.05	0.09
5.84	5.88	0.04
4.95	5.01	0.06
	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 -

REPORT OF EQUIPMENT PERFORMANCE CHECK / CALIBRATION

Information supplied by customer:

CONTACT:	**MR. SAM LAM**	**WORK ORDER:**	**HK1610515**
CLIENT:	**LAM GEOTECHNICS LIMITED**		
DATE RECEIVED:	**30/09/2016**		
DATE OF ISSUE:	**15/10/2016**		
ADDRESS:	**11/F, CENTRE POINT, 181-185, GLOUCESTER ROAD, 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.:	1403009
Equipment No.:	---
Date of Calibration:	30/09/2016

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: _____ Issue Date: 15/10/2016

Ms. Wong Po Yan, Pauline
Testing Engineer

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REPORT OF EQUIPMENT PERFORMANCE CHECK / CALIBRATION

WORK ORDER: HK1610515
DATE OF ISSUE: 15/10/2016
CLIENT: LAM GEOTECHNICS LIMITED

Equipment Type:	Turbidimeter
Brand Name:	Xin Rui
Model No.:	WGZ-3B
Serial No.:	1403009
Equipment No.:	---
Date of Calibration:	30/09/2016
Date of next Calibation:	30/12/2016

Parameters:
Turbidity

Method Ref: APHA 22nd ed. 2130B

Expected Reading (NTU)	Display Reading (NTU)	Tolerance
0	0.00	---
4	3.96	-1.0%
10	10.0	0.0%
40	39.1	-2.3%
100	99.0	-1.0%
400	400	0.0%
1000	995	-0.5%
	Tolerance Limit (±)	10%

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

Address: No.B12, 5th Floor, Block B, Tonic Industrial Centre, No.19 Lam Hing Street, Kowloon Bay, Kowloon
Phone +852 2527 6691 | Email info@pilot-testing.com

REPORT OF EQUIPMENT PERFORMANCE CHECK / CALIBRATION

Information supplied by customer:

CONTACT: MR. SAM LAM **WORK ORDER:** HK1710016
CLIENT: LAM GEOTECHNICS LIMITED
DATE RECEIVED: 05/01/2017
DATE OF ISSUE: 10/01/2017
ADDRESS: 11/F, CENTRE POINT, 181-185, GLOUCESTER ROAD, 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.:	1403009
Equipment No.:	---
Date of Calibration:	09/01/2017

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: 10/01/2017

Address: No.B12, 5th Floor, Block B, Tonic Industrial Centre, No.19 Lam Hing Street, Kowloon Bay, Kowloon
Phone +852 2527 6691 | Email info@pilot-testing.com

REPORT OF EQUIPMENT PERFORMANCE CHECK / CALIBRATION

WORK ORDER: HK1710016
DATE OF ISSUE: 10/01/2017
CLIENT: LAM GEOTECHNICS LIMITED

Equipment Type:	Turbidimeter
Brand Name:	Xin Rui
Model No.:	WGZ-3B
Serial No.:	1403009
Equipment No.:	---
Date of Calibration:	09/01/2017
Date of next Calibation:	09/04/2017

Parameters:
Turbidity

Method Ref: APHA 22nd ed. 2130B

Expected Reading (NTU)	Display Reading (NTU)	Tolerance
0	0.00	---
4	4.02	0.5%
10	9.81	-1.9%
40	38.7	-3.2%
100	93.4	-6.6%
400	392	-2.0%
1000	1000	0.0%
	Tolerance Limit (±)	10%

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

Address: No.B12, 5th Floor, Block B, Tonic Industrial Centre, No.19 Lam Hing Street, Kowloon Bay, Kowloon
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REPORT OF EQUIPMENT PERFORMANCE CHECK / CALIBRATION

Information supplied by customer:

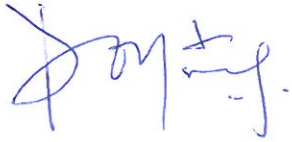
CONTACT:	**MR. SAM LAM**	**WORK ORDER:**	**HK1610696**
CLIENT:	**LAM GEOTECHNICS LIMITED**		
DATE RECEIVED:	**05/12/2016**		
DATE OF ISSUE:	**12/12/2016**		
ADDRESS:	**11/F, CENTRE POINT, 181-185, GLOUCESTER ROAD, WANCHAI, HONG KONG**		
PROJECT:	---		

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:	05/12/2016

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: _____ Issue Date: 12/12/2016

Ms. Wong Po Yan, Pauline
Testing Engineer

Address: No.B12, 5th Floor, Block B, Tonic Industrial Centre, No.19 Lam Hing Street, Kowloon Bay, Kowloon
Phone +852 2527 6691 | Email info@pilot-testing.com

REPORT OF EQUIPMENT PERFORMANCE CHECK / CALIBRATION

WORK ORDER: HK1610696
DATE OF ISSUE: 12/12/2016
CLIENT: LAM GEOTECHNICS LIMITED

Equipment Type:	Turbidimeter
Brand Name:	Xin Rui
Model No.:	WGZ-3B
Serial No.:	1512046
Equipment No.:	---
Date of Calibration:	05/12/2016
Date of next Calibation:	05/03/2017

Parameters:
Turbidity

Method Ref: APHA 22nd ed. 2130B

Expected Reading (NTU)	Display Reading (NTU)	Tolerance
0	0.00	---
4	3.94	-1.5%
10	9.30	-7.0%
40	38.4	-4.0%
100	102	2.0%
400	380	-5.0%
1000	1000	0.0%
	Tolerance Limit (±)	10%

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

Address: No.B12, 5th Floor, Block B, Tonic Industrial Centre, No.19 Lam Hing Street, Kowloon Bay, Kowloon
Phone +852 2527 6691 | Email info@pilot-testing.com

REPORT OF EQUIPMENT PERFORMANCE CHECK / CALIBRATION

Information supplied by customer:

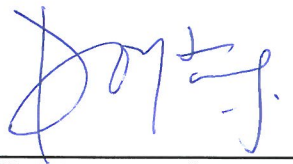
CONTACT:	**MR. SAM LAM**	**WORK ORDER:**	**HK1610731**
CLIENT:	**LAM GEOTECHNICS LIMITED**		
DATE RECEIVED:	**21/12/2016**		
DATE OF ISSUE:	**23/12/2016**		
ADDRESS:	**11/F, CENTRE POINT, 181-185, GLOUCESTER ROAD, WANCHAI, HONG KONG**		
PROJECT:	**---**		

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.:	1512036
Equipment No.:	---
Date of Calibration:	22/12/2016

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: 23/12/2016

Address: No.B12, 5th Floor, Block B, Tonic Industrial Centre, No.19 Lam Hing Street, Kowloon Bay, Kowloon
Phone +852 2527 6691 | Email info@pilot-testing.com

REPORT OF EQUIPMENT PERFORMANCE CHECK / CALIBRATION

WORK ORDER: HK1610731
DATE OF ISSUE: 23/12/2016
CLIENT: LAM GEOTECHNICS LIMITED

Equipment Type:	Turbidimeter
Brand Name:	Xin Rui
Model No.:	WGZ-3B
Serial No.:	1512036
Equipment No.:	---
Date of Calibration:	22/12/2016
Date of next Calibation:	22/03/2017

Parameters:
Turbidity

Method Ref: APHA 22nd ed. 2130B

Expected Reading (NTU)	Display Reading (NTU)	Tolerance
0	0.00	---
4	4.17	4.3%
10	9.99	-0.1%
40	40.3	0.7%
100	99.2	-0.8%
400	411	2.8%
1000	1000	0.0%
	Tolerance Limit (±)	10%

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

Address: No.B12, 5th Floor, Block B, Tonic Industrial Centre, No.19 Lam Hing Street, Kowloon Bay, Kowloon
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TISCH Environmental

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

ORIFICE TRANSFER STANDARD CERTIFICATION WORKSHEET TE-5025A

Date - May 20, 2016 Rootsmeter S/N 0438320 Ta (K) - 293
Operator Tisch Orifice I.D. - 3166 Pa (mm) - 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)
0.9967	0.6985	1.4150
0.9925	0.9711	2.0010
0.9904	1.0883	2.2372
0.9892	1.1332	2.3464
0.9840	1.3705	2.8299

Qstd slope (m) = 2.10714
intercept (b) = -0.05158
coefficient (r) = 0.99978

y axis = SQRT[H2O(Pa/760)(298/Ta)]

Va	(x axis) Qa	(y axis)
0.9957	0.6977	0.8851
0.9915	0.9701	1.2517
0.9893	1.0872	1.3995
0.9882	1.1320	1.4678
0.9830	1.3691	1.7702

Qa slope (m) = 1.31946
intercept (b) = -0.03226
coefficient (r) = 0.99978

y axis = SQRT[H2O(Ta/Pa)]

CALCULATIONS

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

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

For subsequent flow rate calculations:

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

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA1b	**Calibration Date**	:	22-Dec-16
Equipment no.	:	HVS001	**Calibration Due Date**	:	22-Feb-17

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition					
Temperature, T_a	295	Kelvin	**Pressure, P_a**	1019	mmHg

Orifice Transfer Standard Information					
Equipment No.	**Ori002**	**Slope, m_c**	2.10714	**Intercept, bc**	-0.05158
Last Calibration Date	20-May-16	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$			
Next Calibration Date	20-May-17	$= m_c \times Q_{std} + b_c$			

Calibration of TSP

Calibration Point	**Manometer Reading H (inches of water)** (up)	(down)	(difference)	**Q_{std}** (m^3 / min.) **X-axis**	**Continuous Flow Recorder, W** (CFM)	**IC** ($W(P_a/1013.3 \times 298/T_a)^{1/2}/35.31$) **Y-axis**
1	1.6	1.6	3.2	0.8801	25	25.1974
2	2.3	2.3	4.6	1.0504	34	34.2684
3	3.8	3.8	7.6	1.3431	42	42.3316
4	4.9	4.9	9.8	1.5219	48	48.3789
5	6.1	6.1	12.2	1.6952	54	54.4263

By Linear Regression of Y on X

Slope, m	=	34.3507	Intercept, b	=	-3.6713
Correlation Coefficient*	=	0.9949			
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-assigned from EL452 to HVS001 with respect to the update in quality management system.

Calibrated by	:	Jackey MA	**Checked by**	:	Pauline Wong
Date	:	22-Dec-16	**Date**	:	22-Dec-16

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA2a	**Calibration Date**	:	21-Dec-16
Equipment no.	:	HVS002	**Calibration Due Date**	:	21-Feb-17

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition					
Temperature, T_a	295	Kelvin	**Pressure, P_a**	1017	mmHg

Orifice Transfer Standard Information					
Equipment No.	**Ori002**	**Slope, m_c**	2.10714	**Intercept, bc**	-0.05158
Last Calibration Date	20-May-16	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$			
Next Calibration Date	20-May-17	$= m_c \times Q_{std} + b_c$			

Calibration of TSP

Calibration Point	**Manometer Reading H (inches of water)** (up)	(down)	(difference)	**Q_{std}** (m^3 / min.) **X-axis**	**Continuous Flow Recorder, W** (CFM)	**IC** $(W(P_a/1013.3 \times 298/T_a)^{1/2}/35.31)$ **Y-axis**
1	1.6	1.6	3.2	0.8793	28	28.1933
2	2.5	2.5	5.0	1.0930	36	36.2486
3	3.6	3.6	7.2	1.3067	48	48.3314
4	4.6	4.6	9.2	1.4739	54	54.3729
5	5.5	5.5	11.0	1.6093	60	60.4143

By Linear Regression of Y on X

Slope, m	=	44.9481	Intercept, b	=	-11.6816
Correlation Coefficient*	=	0.9976			
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-assigned from EL449 to HVS002 with respect to the update in quality management system.

Calibrated by	:	Jackey MA	**Checked by**	:	Pualine Wong
Date	:	21-Dec-16	**Date**	:	21-Dec-16

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA3a	**Calibration Date**	:	11-Nov-16
Equipment no.	:	HVS012	**Calibration Due Date**	:	11-Jan-17

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition			
Temperature, T_a	293 Kelvin	**Pressure, P_a**	1019 mmHg

Orifice Transfer Standard Information					
Equipment No.	**Ori002**	**Slope, m_c**	2.10714	**Intercept, bc**	-0.05158
Last Calibration Date	20-May-16	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$			
Next Calibration Date	20-May-17	$= m_c \times Q_{std} + b_c$			

Calibration of TSP						
Calibration Point	**Manometer Reading H (inches of water)**			**Q_{std} (m^3 / min.) X-axis**	**Continuous Flow Recorder, W (CFM)**	**IC ($W(P_a/1013.3 \times 298/T_a)^{1/2}/35.31$) Y-axis**
	(up)	(down)	(difference)			
1	1.3	1.3	2.6	0.7984	32	32.3625
2	2.1	2.1	4.2	1.0081	38	38.4305
3	3.3	3.3	6.6	1.2575	45	45.5098
4	4.2	4.2	8.4	1.4155	50	50.5664
5	5.2	5.2	10.4	1.5723	56	56.6344

By Linear Regression of Y on X

Slope, m = 30.8649 Intercept, b = 7.3433

Correlation Coefficient* = 0.9982

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-assigned from EL333 to HVS012 with respect to the update in quality management system.

Calibrated by	:	Jackey MA	**Checked by**	:	Pauline Wong
Date	:	11-Nov-16	**Date**	:	11-Nov-16

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA3a	**Calibration Date**	:	30-Dec-16
Equipment no.	:	HVS012	**Calibration Due Date**	:	28-Feb-17

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition					
Temperature, T_a	290	Kelvin	**Pressure, P_a**	1024	mmHg

Orifice Transfer Standard Information					
Equipment No.	**Ori002**	**Slope, m_c**	2.10714	**Intercept, bc**	-0.05158
Last Calibration Date	20-May-16	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$			
Next Calibration Date	20-May-17	$= m_c \times Q_{std} + b_c$			

Calibration of TSP						
Calibration Point	**Manometer Reading H (inches of water)**			**Q_{std}** (m^3 / min.) **X-axis**	**Continuous Flow Recorder, W** (CFM)	**IC** $(W(P_a/1013.3 \times 298/T_a)^{1/2}/35.31)$ **Y-axis**
	(up)	(down)	(difference)			
1	1.3	1.3	2.6	0.8043	30	30.5711
2	2.1	2.1	4.2	1.0156	36	36.6853
3	3.5	3.5	7.0	1.3040	42	42.7996
4	4.6	4.6	9.2	1.4913	48	48.9138
5	5.8	5.8	11.6	1.6716	53	54.0090

By Linear Regression of Y on X

Slope, m = 26.5975 Intercept, b = 9.1531

Correlation Coefficient* = 0.9978

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-assigned from EL333 to HVS012 with respect to the update in quality management system.

Calibrated by	:	Jackey MA	**Checked by**	:	Pauline Wong
Date	:	30-Dec-16	**Date**	:	30-Dec-16

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA4a	**Calibration Date**	:	11-Nov-16
Equipment no.	:	HVS004	**Calibration Due Date**	:	11-Jan-17

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition					
Temperature, T_a	293	Kelvin	**Pressure, P_a**	1019	mmHg

Orifice Transfer Standard Information					
Equipment No.	**Ori002**	**Slope, m_c**	2.10714	**Intercept, bc**	-0.05158
Last Calibration Date	20-May-16	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$			
Next Calibration Date	20-May-17	$= m_c \times Q_{std} + b_c$			

Calibration of TSP

Calibration Point	Manometer Reading H (inches of water) (up)	(down)	(difference)	Q_{std} (m^3 / min.) X-axis	Continuous Flow Recorder, W (CFM)	IC ($W(P_a/1013.3 \times 298/T_a)^{1/2}/35.31$) Y-axis
1	1.4	1.4	2.8	0.8276	25	25.2832
2	2.2	2.2	4.4	1.0312	32	32.3625
3	3.3	3.3	6.6	1.2575	41	41.4645
4	4.3	4.3	8.6	1.4320	46	46.5211
5	5.6	5.6	11.2	1.6307	52	52.5891

By Linear Regression of Y on X

Slope, m = 34.3403 Intercept, b = -2.7938

Correlation Coefficient* = 0.9982

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-assigned from EL390 to HVS004 with respect to the update in quality management system.

Calibrated by	:	Jackey MA	**Checked by**	:	Pauline Wong
Date	:	11-Nov-16	**Date**	:	11-Nov-16

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA4a	**Calibration Date**	:	30-Dec-16
Equipment no.	:	HVS004	**Calibration Due Date**	:	28-Feb-17

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition					
Temperature, T_a	290	Kelvin	**Pressure, P_a**	1024	mmHg

Orifice Transfer Standard Information					
Equipment No.	**Ori002**	**Slope, m_c**	2.10714	**Intercept, bc**	-0.05158
Last Calibration Date	20-May-16	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$			
Next Calibration Date	20-May-17	$= m_c \times Q_{std} + b_c$			

Calibration of TSP						
Calibration Point	**Manometer Reading H (inches of water)**			**Q_{std}** (m^3 / min.)	**Continuous Flow Recorder, W**	**IC** ($W(P_a/1013.3 \times 298/T_a)^{1/2}/35.31$)
	(up)	(down)	(difference)	**X-axis**	(CFM)	**Y-axis**
1	1.4	1.4	2.8	0.8337	22	22.4188
2	2.1	2.1	4.2	1.0156	30	30.5711
3	3.1	3.1	6.2	1.2287	40	40.7615
4	3.9	3.9	7.8	1.3751	46	46.8757
5	5.2	5.2	10.4	1.5841	52	52.9899

By Linear Regression of Y on X

Slope, m = 41.6284 Intercept, b = -11.5402

Correlation Coefficient* = 0.9956

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-assigned from EL390 to HVS004 with respect to the update in quality management system.

Calibrated by	:	Jackey MA	**Checked by**	:	Pauline Wong
Date	:	30-Dec-16	**Date**	:	30-Dec-16

Calibration Data for High Volume Sampler (TSP Sampler)

Location	: CMA5b	**Calibration Date**	: 11-Nov-16
Equipment no.	: HVS010	**Calibration Due Date**	: 11-Jan-17

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition					
Temperature, T_a	293	Kelvin	**Pressure, P_a**	1019	mmHg

Orifice Transfer Standard Information					
Equipment No.	**Ori002**	**Slope, m_c**	2.10714	**Intercept, bc**	-0.05158
Last Calibration Date	20-May-16	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$			
Next Calibration Date	20-May-17	$= m_c \times Q_{std} + b_c$			

Calibration of TSP

Calibration Point	Manometer Reading H (inches of water) (up)	(down)	(difference)	Q_{std} (m^3 / min.) X-axis	Continuous Flow Recorder, W (CFM)	IC $(W(P_a/1013.3 \times 298/T_a)^{1/2}/35.31)$ Y-axis
1	1.4	1.4	2.8	0.8276	32	32.3625
2	2.3	2.3	4.6	1.0539	38	38.4305
3	3.5	3.5	7.0	1.2943	48	48.5438
4	4.6	4.6	9.2	1.4802	52	52.5891
5	5.8	5.8	11.6	1.6591	60	60.6797

By Linear Regression of Y on X

Slope, m = 33.8651 Intercept, b = 3.7484

Correlation Coefficient* = 0.9956

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

Calibrated by	: Jackey MA	**Checked by**	: Pauline Wong
Date	: 11-Nov-16	**Date**	: 11-Nov-16

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA5b	**Calibration Date**	:	30-Dec-16
Equipment no.	:	HVS010	**Calibration Due Date**	:	28-Feb-17

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition					
Temperature, T_a	290	Kelvin	**Pressure, P_a**	1024	mmHg

Orifice Transfer Standard Information					
Equipment No.	**Ori002**	**Slope, m_c**	2.10714	**Intercept, bc**	-0.05158
Last Calibration Date	20-May-16	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$			
Next Calibration Date	20-May-17	$= m_c \times Q_{std} + b_c$			

Calibration of TSP

Calibration Point	**Manometer Reading H (inches of water)** (up)	(down)	(difference)	**Q_{std}** (m^3 / min.) **X-axis**	**Continuous Flow Recorder, W** (CFM)	**IC** $(W(P_a/1013.3 \times 298/T_a)^{1/2}/35.31)$ **Y-axis**
1	1.4	1.4	2.8	0.8337	38	38.7234
2	2.3	2.3	4.6	1.0617	44	44.8376
3	3.5	3.5	7.0	1.3040	53	54.0090
4	4.5	4.5	9.0	1.4753	58	59.1042
5	5.8	5.8	11.6	1.6716	64	65.2184

By Linear Regression of Y on X

Slope, m = 32.2163 Intercept, b = 11.4875

Correlation Coefficient* = 0.9987

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

Calibrated by	:	Jackey MA	**Checked by**	:	Pauline Wong
Date	:	30-Dec-16	**Date**	:	30-Dec-16

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA6a	**Calibration Date**	:	11-Nov-16
Equipment no.	:	HVS013	**Calibration Due Date**	:	11-Jan-17

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition					
Temperature, T_a	293	Kelvin	**Pressure, P_a**	1019	mmHg

Orifice Transfer Standard Information					
Equipment No.	**Ori002**	**Slope, m_c**	2.10714	**Intercept, bc**	-0.05158
Last Calibration Date	20-May-16	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$			
Next Calibration Date	20-May-17	$= m_c \times Q_{std} + b_c$			

Calibration of TSP

Calibration Point	Manometer Reading H (inches of water) (up)	(down)	(difference)	Q_{std} (m^3 / min.) X-axis	Continuous Flow Recorder, W (CFM)	IC $(W(P_a/1013.3\times298/T_a)^{1/2}/35.31)$ Y-axis
1	1.5	1.5	3.0	0.8558	33	33.3739
2	2.2	2.2	4.4	1.0312	42	42.4758
3	3.5	3.5	7.0	1.2943	48	48.5438
4	4.6	4.6	9.2	1.4802	53	53.6004
5	5.9	5.9	11.8	1.6732	59	59.6684

By Linear Regression of Y on X

Slope, m	=	30.4334	Intercept, b	=	8.9749
Correlation Coefficient*	=	0.9909			
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-assigned from EL551 to HVS013 with respect to the update in quality management system.

Calibrated by	:	Jackey MA	**Checked by**	:	Pauline Wong
Date	:	11-Nov-16	**Date**	:	11-Nov-16

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA6a	**Calibration Date**	:	30-Dec-16
Equipment no.	:	HVS013	**Calibration Due Date**	:	28-Feb-17

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition					
Temperature, T_a	290	Kelvin	**Pressure, P_a**	1024	mmHg

Orifice Transfer Standard Information					
Equipment No.	**Ori002**	**Slope, m_c**	2.10714	**Intercept, bc**	-0.05158
Last Calibration Date	20-May-16	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$			
Next Calibration Date	20-May-17	$= m_c \times Q_{std} + b_c$			

Calibration of TSP

Calibration Point	**Manometer Reading H (inches of water)** (up)	(down)	(difference)	**Q_{std}** (m^3 / min.) **X-axis**	**Continuous Flow Recorder, W** (CFM)	**IC** $(W(P_a/1013.3\times298/T_a)^{1/2}/35.31)$ **Y-axis**
1	1.6	1.6	3.2	0.8896	36	36.6853
2	2.5	2.5	5.0	1.1059	43	43.8186
3	3.9	3.9	7.8	1.3751	52	52.9899
4	5.0	5.0	10.0	1.5538	59	60.1232
5	6.3	6.3	12.6	1.7411	64	65.2184

By Linear Regression of Y on X

Slope, m = 34.1269 Intercept, b = 6.2724

Correlation Coefficient* = 0.9991

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

Calibrated by	:	Jackey MA	**Checked by**	:	Pauline Wong
Date	:	30-Dec-16	**Date**	:	30-Dec-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
January 2017

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
25-Dec	26-Dec	27-Dec	28-Dec	29-Dec	30-Dec	31-Dec
			24hr TSP	1hr TSP		
			Noise (daytime) (M1a, M2b)	Noise (daytime) (M3a, M4b, M5b, M6)		
	Impact WQM		Impact WQM	Impact WQM	Impact WQM	Impact WQM
	Mid-ebb 11:45					
	Mid-flood 17:17		Mid-flood 17:07	Mid-ebb 0:09	Mid-flood 18:17	Mid-ebb 1:12
1-Jan	2-Jan	3-Jan	4-Jan	5-Jan	6-Jan	7-Jan
			24hr TSP **(CMA1b)**			
		24hr TSP	1hr TSP			
		Noise (daytime) (M1a. M2b, M3a, M4b, M5b, M6)				
		Impact WQM		Impact WQM		Impact WQM
		Mid-ebb 3:02		Mid-ebb 4:26		Mid-ebb 6:57
		Mid-flood 10:25		Mid-flood 11:58		Mid-flood 13:36
8-Jan	9-Jan	10-Jan	11-Jan	12-Jan	13-Jan	14-Jan
		24hr TSP (CMA4a)				
	24hr TSP	1hr TSP				24hr TSP
		Noise (daytime) (M1a. M2b, M3a, M4b, M5b, M6)				
	Impact WQM		Impact WQM		Impact WQM	Impact WQM
	Mid-flood 15:19		Mid-flood 16:57			
	Mid-ebb 22:19		Mid-ebb 23:54		Mid-flood 18:31	Mid-ebb 1:24
15-Jan	16-Jan	17-Jan	18-Jan	19-Jan	20-Jan	21-Jan
						24hr TSP (CMA4a)
	1hr TSP				24hr TSP	1hr TSP
			Noise (daytime) (M3a, M4b, M5b, M6)	Noise (daytime) (M1a, M2b)		
	Impact WQM		Impact WQM		Impact WQM	
	Mid-ebb 2:46		Mid-ebb 3:59		Mid-ebb 4:19	
	Mid-flood 9:42		Mid-flood 11:02		Mid-flood 12:31	
22-Jan	23-Jan	24-Jan	25-Jan	26-Jan	27-Jan	
					24hr TSP **(CMA1b)**	
				24hr TSP	1hr TSP	
	Noise (daytime) (M1a, M2b)	Noise (daytime) (M3a, M4b, M5b, M6)				
		Impact WQM		Impact WQM		
		Mid-flood 9:02		Mid-flood 10:24		
		Mid-ebb 14:49		Mid-ebb 16:29		

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
February 2017

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				26-Jan	27-Jan Impact WQM Mid-flood 17:28	28-Jan Impact WQM Mid-ebb 0:24
29-Jan	30-Jan	31-Jan Impact WQM Mid-flood 9:02 Mid-ebb 14:49	1-Feb 24hr TSP Noise (daytime)	2-Feb 1hr TSP Noise (daytime) Impact WQM Mid-flood 10:24 Mid-ebb 16:29	3-Feb	4-Feb Impact WQM Mid-flood 11:58 Mid-ebb 18:44
5-Feb	6-Feb Noise (daytime) Impact WQM Mid-flood 13:46 Mid-ebb 21:11	7-Feb 24hr TSP Noise (daytime)	8-Feb 1hr TSP Impact WQM Mid-flood 15:53 Mid-ebb 22:59	9-Feb	10-Feb	11-Feb Impact WQM Mid-flood 7:17 Mid-ebb 12:51
12-Feb	13-Feb 24hr TSP Noise (daytime) Impact WQM Mid-flood 8:20 Mid-ebb 14:02	14-Feb 1hr TSP Noise (daytime)	15-Feb Impact WQM Mid-flood 9:17 Mid-ebb 15:10	16-Feb	17-Feb Impact WQM Mid-flood 10:22 Mid-ebb 16:35	18-Feb 24hr TSP
19-Feb	20-Feb 1hr TSP Noise (daytime) Impact WQM Mid-flood 12:26 Mid-ebb 20:44	21-Feb Noise (daytime)	22-Feb Impact WQM Mid-flood 14:35 Mid-ebb 22:08	23-Feb	24-Feb 24hr TSP Impact WQM Mid-flood 16:27 Mid-ebb 23:23	25-Feb 1hr TSP

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

Date	Time	Weather	Measurement Noise Level			Baseline Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq
			Unit: dB(A), (30-min)					
28/12/2016	14:04	Fine	75.8	77.5	73.5	72	73	75
3/1/2017	15:55	Fine	74.3	76.5	71.0	72	70	75
10/1/2017	13:00	Fine	70.0	71.5	68.5	72	70	75
19/1/2017	13:37	Fine	74.6	76.5	71.5	72	71	75
23/1/2017	11:00	Fine	74.3	76.0	70.5	72	70	75

Location: M2b - Noon-day gun area

Date	Time	Weather	Measurement Noise Level			Baseline Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq
			Unit: dB(A), (30-min)					
28/12/2016	15:00	Fine	67.0	68.0	64.5	68	67	75
3/1/2017	16:38	Fine	67.2	68.5	65.0	68	67	75
10/1/2017	14:00	Fine	67.1	68.5	65.0	68	67	75
19/1/2017	14:26	Fine	67.7	69.0	65.5	68	51	75
23/1/2017	10:10	Fine	69.2	71.5	66.0	68	64	75

Location: M3a - Tung Lo Wan Fire Station

Date	Time	Weather	Measurement Noise Level			Baseline Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq
			Unit: dB(A), (30-min)					
29/12/2016	14:05	Fine	66.1	67.5	63.5	69	66	75
3/1/2017	13:00	Fine	64.3	66.0	61.5	69	64	75
10/1/2017	14:45	Fine	65.9	67.0	64.0	69	66	75
18/1/2017	13:00	Cloudy	67.0	68.5	65.5	69	67	75
24/1/2017	08:10	Fine	67.0	68.0	66.0	69	67	75

Location: M4b - Victoria Centre

Date	Time	Weather	Measurement Noise Level			Baseline Noise Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq
			Unit: dB(A), (30min)					
29/12/2016	14:45	Fine	65.7	67.5	61.5	67	66	75
3/1/2017	13:40	Fine	64.2	66.5	61.5	67	64	75
10/1/2017	15:25	Fine	66.3	68.5	63.0	67	66	75
18/1/2017	13:40	Cloudy	64.9	66.0	62.5	67	65	75
24/1/2017	09:00	Fine	65.0	66.5	63.5	67	65	75

Location: M5b - City Garden

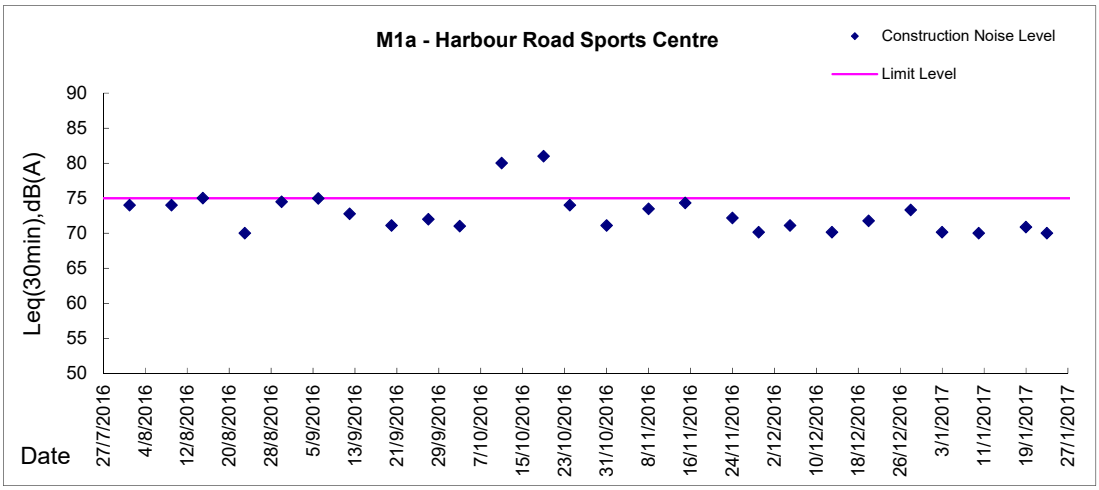
Date	Time	Weather	Measurement Noise Level			Baseline Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq
			Unit: dB(A), (30min)					
29/12/2016	15:25	Fine	69.6	71.5	66.0	68	64	75
3/1/2017	14:26	Fine	68.0	68.5	64.0	68	68	75
10/1/2017	16:10	Fine	68.0	69.5	65.0	68	68	75
18/1/2017	14:21	Cloudy	66.1	67.5	64.0	68	66	75
24/1/2017	09:48	Fine	67.8	68.5	65.0	68	68	75

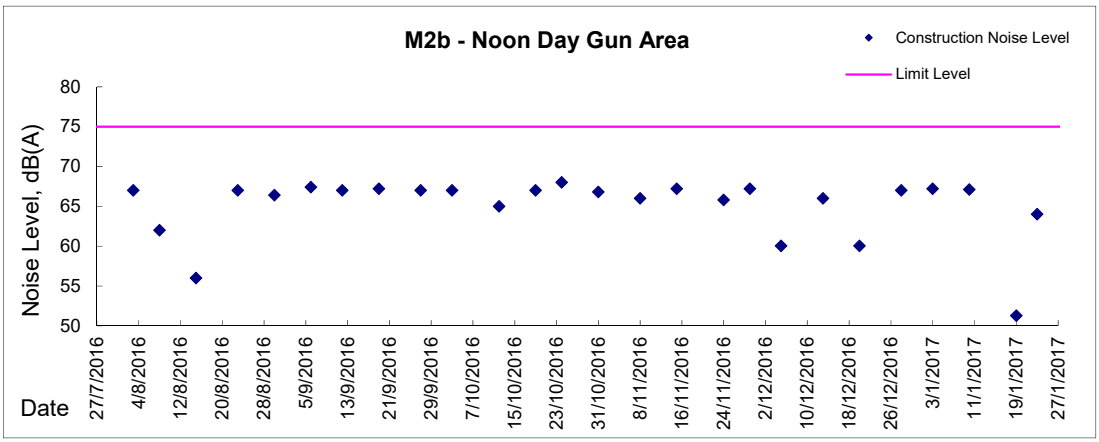
Location: M6 - HK Baptist Church Henrietta Secondary School

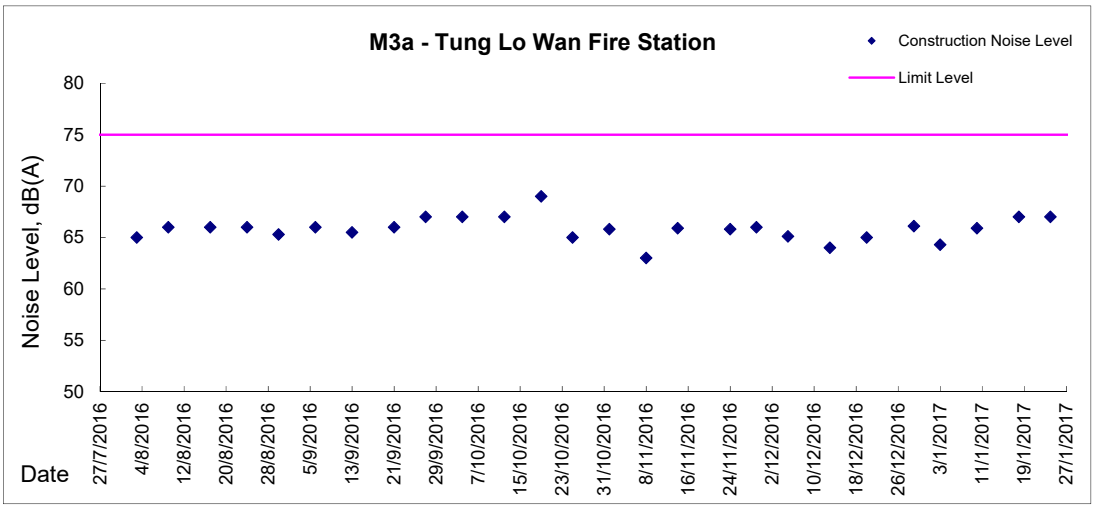
Date	Time	Weather	Measurement Noise Level			Baseline Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq
			Unit: dB(A), (30-min)					
29/12/2016	16:05	Fine	67.4	68.5	65.5	71	67	70
3/1/2017	15:02	Fine	67.6	68.5	66.0	71	68	70
10/1/2017	16:50	Fine	66.9	68.0	65.5	71	67	70
18/1/2017	15:00	Cloudy	66.3	68.0	63.5	71	66	70
24/1/2017	10:25	Fine	68.0	69.0	65.5	71	68	65

Graphic Presentation of Noise Monitoring Result

Day Time (0700 - 1900hrs on normal weekdays)

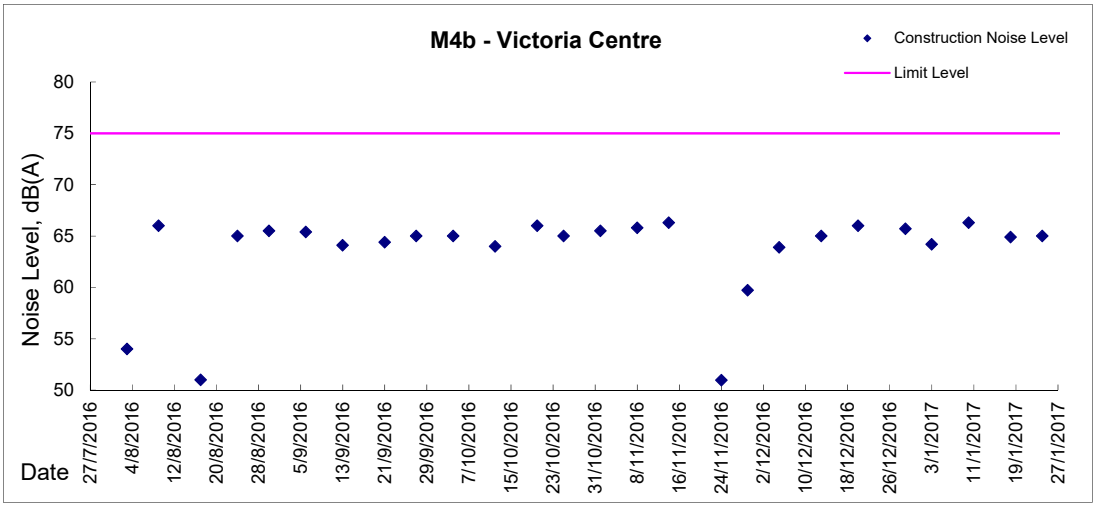


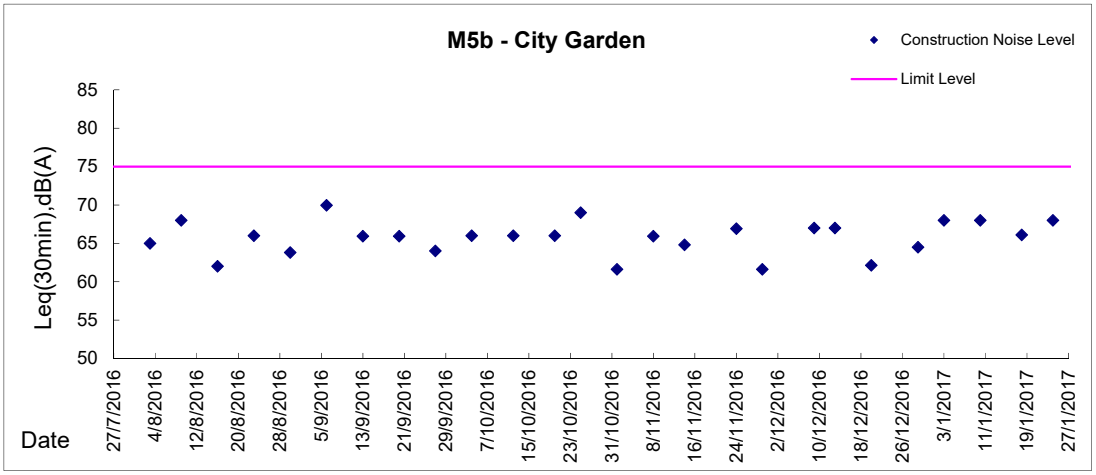


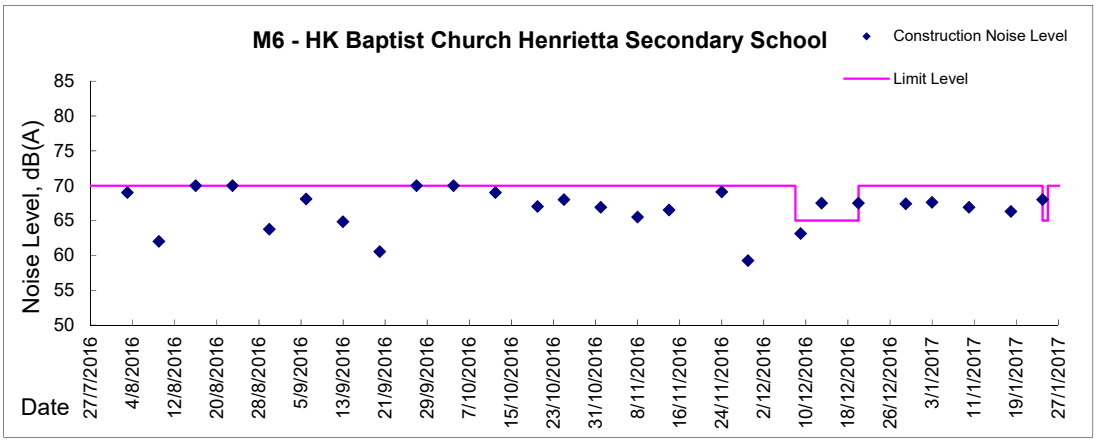


Graphic Presentation of Noise Monitoring Result

Day Time (0700 - 1900hrs on normal weekdays)







Appendix 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 Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, $\mu g/m^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
28-Dec-16	8:00	Cloudy	18653	2.6413	2.8735	9268.74	9292.74	24.00	1.31	1.30	1.31	1880	123.5
4-Jan-17	15:06	Fine	19646	2.6372	2.7693	9304.84	9328.84	24.00	1.29	1.29	1.29	1861	71.0
9-Jan-17	8:00	Fine	18491	2.8277	3.1617	9328.84	9352.84	24.00	1.32	1.32	1.32	1902	175.6
14-Jan-17	8:00	Cloudy	18842	2.8430	3.0070	9357.15	9381.15	24.00	1.30	1.30	1.30	1874	87.5
20-Jan-17	8:00	Fine	18816	2.6663	2.9129	9384.15	9408.15	24.00	1.30	1.30	1.30	1874	131.6
27-Jan-17	16:00	Fine	18966	2.8463	3.0006	9437.90	9461.90	24.00	1.30	1.30	1.30	1872	82.4

Remarks: Due to interruption of electricity, the 24hr TSP was rescheduled from 3 and 26 Jan 2017 to 4 and 27 Jan 2017 respectively.

Report on 1-hour TSP monitoring

Action Level (μ g/m3) - 320.1

Limit Level (μ g/m3) - 500

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, $\mu g/m^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
29-Dec-16	8:40	Cloudy	18470	2.8567	2.8660	9292.74	9293.74	1.00	1.30	1.30	1.30	78	118.8
29-Dec-16	10:15	Cloudy	18662	2.6610	2.6745	9293.74	9294.74	1.00	1.30	1.30	1.30	78	172.5
29-Dec-16	13:00	Cloudy	18461	2.8151	2.8277	9294.74	9295.74	1.00	1.30	1.30	1.30	78	161.0
4-Jan-17	9:00	Fine	18684	2.6632	2.6804	9301.84	9302.84	1.00	1.29	1.29	1.29	78	221.6
4-Jan-17	10:50	Fine	18651	2.6401	2.6539	9302.84	9303.84	1.00	1.29	1.29	1.29	78	177.8
4-Jan-17	13:24	Fine	18647	2.6581	2.6694	9303.84	9304.84	1.00	1.29	1.29	1.29	78	145.6
10-Jan-17	8:30	Fine	18864	2.8231	2.8414	9352.84	9353.84	1.00	1.30	1.30	1.30	78	235.5
10-Jan-17	9:58	Fine	18855	2.8602	2.8794	9353.84	9354.84	1.00	1.30	1.30	1.30	78	247.1
10-Jan-17	11:00	Fine	18847	2.8422	2.8598	9354.84	9355.84	1.00	1.30	1.30	1.30	78	226.5
16-Jan-17	8:30	Cloudy	18837	2.8639	2.8808	9381.15	9382.15	1.00	1.30	1.30	1.30	78	216.3
16-Jan-17	10:30	Cloudy	18809	2.6593	2.6686	9382.15	9383.15	1.00	1.30	1.30	1.30	78	119.1
16-Jan-17	13:00	Cloudy	18802	2.6456	2.6575	9383.15	9384.15	1.00	1.30	1.30	1.30	78	152.3
21-Jan-17	8:30	Fine	18490	2.8207	2.8382	9408.15	9409.15	1.00	1.30	1.30	1.30	78	223.9
21-Jan-17	9:32	Fine	18453	2.8303	2.8467	9409.15	9410.15	1.00	1.30	1.30	1.30	78	209.8
21-Jan-17	11:00	Fine	18446	2.8372	2.8527	9410.15	9411.15	1.00	1.30	1.30	1.30	78	198.3
27-Jan-17	8:50	Fine	18474	2.8524	2.8601	9434.29	9435.29	1.00	1.30	1.30	1.30	78	98.7
27-Jan-17	10:15	Fine	18973	2.8789	2.8872	9435.29	9436.29	1.00	1.30	1.30	1.30	78	106.4
27-Jan-17	13:00	Fine	18970	2.8155	2.8222	9436.29	9437.29	1.00	1.30	1.30	1.30	78	85.9

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 Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, $\mu g/m^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
28-Dec-16	8:00	Cloudy	18654	2.6451	2.6912	18909.04	18933.04	24.00	1.09	1.09	1.09	1568	29.4
3-Jan-17	8:00	Fine	18458	2.8276	2.9427	18936.04	18960.04	24.00	1.12	1.12	1.12	1619	71.1
9-Jan-17	8:00	Fine	18644	2.6247	2.7344	18963.04	18987.04	24.00	1.08	1.08	1.08	1555	70.6
14-Jan-17	8:00	Cloudy	18841	2.8402	2.9298	18990.04	19014.04	24.00	1.13	1.13	1.13	1626	55.1
20-Jan-17	8:00	Fine	18817	2.6846	2.8037	19017.04	19041.04	24.00	1.13	1.13	1.13	1626	73.3
26-Jan-17	8:00	Fine	18484	2.8376	2.9609	19044.04	19068.04	24.00	1.09	1.08	1.09	1563	78.9

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

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, $\mu g/m^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
29-Dec-16	8:15	Cloudy	18471	2.8563	2.8631	18933.04	18934.04	1.00	1.09	1.09	1.09	65	104.2
29-Dec-16	9:30	Cloudy	18663	2.6599	2.6664	18934.04	18935.04	1.00	1.13	1.13	1.13	68	95.8
29-Dec-16	11:00	Cloudy	18459	2.8298	2.8358	18935.04	18936.04	1.00	1.09	1.09	1.09	65	91.9
4-Jan-17	8:30	Fine	18685	2.6455	2.6502	18960.04	18961.04	1.00	1.08	1.08	1.08	65	72.5
4-Jan-17	11:00	Fine	18650	2.6498	2.6560	18961.04	18962.04	1.00	1.08	1.08	1.08	65	95.6
4-Jan-17	13:00	Fine	18649	2.6756	2.6810	18962.04	18963.04	1.00	1.08	1.08	1.08	65	83.3
10-Jan-17	8:30	Fine	18863	2.8248	2.8334	18987.04	18988.04	1.00	1.12	1.12	1.12	67	127.4
10-Jan-17	9:45	Fine	18856	2.8472	2.8539	18988.04	18989.04	1.00	1.08	1.08	1.08	65	103.3
10-Jan-17	11:00	Fine	18848	2.8351	2.8437	18989.04	18990.04	1.00	1.08	1.08	1.08	65	132.5
16-Jan-17	8:30	Cloudy	18838	2.8531	2.8594	19014.04	19015.04	1.00	1.13	1.13	1.13	68	92.9
16-Jan-17	10:30	Cloudy	18810	2.6612	2.6650	19015.04	19016.04	1.00	1.09	1.09	1.09	65	58.3
16-Jan-17	13:00	Cloudy	18803	2.6573	2.6634	19016.04	19017.04	1.00	1.13	1.13	1.13	68	90.0
21-Jan-17	8:30	Fine	18782	2.6501	2.6582	19041.04	19042.04	1.00	1.13	1.13	1.13	68	119.4
21-Jan-17	9:32	Fine	18454	2.8093	2.8160	19042.04	19043.04	1.00	1.11	1.11	1.11	67	100.7
21-Jan-17	11:00	Fine	18447	2.8444	2.8527	19043.04	19044.04	1.00	1.09	1.09	1.09	65	127.3
27-Jan-17	8:52	Fine	18976	2.8956	2.8997	19068.04	19069.04	1.00	1.08	1.08	1.08	65	63.0
27-Jan-17	10:30	Fine	18988	2.9077	2.9111	19069.04	19070.04	1.00	1.08	1.08	1.08	65	52.2
27-Jan-17	13:00	Fine	18984	2.8974	2.9018	19070.04	19071.04	1.00	1.08	1.08	1.08	65	67.6

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 Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, μg/m^3
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
28-Dec-16	8:00	Cloudy	18655	2.6758	2.7861	6363.77	6387.77	24.00	1.10	1.09	1.10	1579	69.9
3-Jan-17	8:00	Fine	18682	2.6413	2.6912	6390.82	6414.82	24.00	1.04	1.04	1.04	1502	33.2
9-Jan-17	8:00	Fine	18728	2.6711	2.8049	6417.82	6441.82	24.00	1.11	1.12	1.11	1605	83.4
14-Jan-17	8:00	Cloudy	18843	2.8385	2.9094	6444.83	6468.83	24.00	1.05	1.05	1.05	1515	46.8
20-Jan-17	8:00	Fine	18818	2.6836	2.8040	6472.95	6496.95	24.00	1.12	1.13	1.12	1620	74.3
26-Jan-17	8:00	Fine	18486	2.8374	2.9612	6499.95	6523.95	24.00	1.13	1.12	1.12	1620	76.4

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

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, μg/m^3
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
29-Dec-16	8:25	Cloudy	18442	2.8365	2.8412	6387.77	6388.77	1.00	1.09	1.09	1.09	66	71.6
29-Dec-16	9:50	Cloudy	18665	2.6071	2.6109	6388.77	6389.77	1.00	1.09	1.09	1.09	66	57.9
29-Dec-16	10:55	Cloudy	18462	2.8245	2.8293	6389.77	6390.77	1.00	0.97	0.97	0.97	58	82.7
4-Jan-17	8:30	Fine	18687	2.6350	2.6367	6414.82	6415.82	1.00	1.04	1.04	1.04	63	27.2
4-Jan-17	9:53	Fine	18707	2.6382	2.6399	6415.82	6416.82	1.00	1.04	1.04	1.04	63	27.2
4-Jan-17	13:00	Fine	18723	2.6580	2.6642	6416.82	6417.82	1.00	1.04	1.04	1.04	63	99.1
10-Jan-17	8:15	Fine	18867	2.8351	2.8421	6441.82	6442.82	1.00	1.19	1.19	1.19	71	98.0
10-Jan-17	9:50	Fine	18858	2.8514	2.8577	6442.82	6443.82	1.00	1.04	1.04	1.04	63	100.5
10-Jan-17	11:00	Fine	18850	2.8583	2.8664	6443.82	6444.82	1.00	1.04	1.04	1.04	63	129.3
16-Jan-17	8:30	Cloudy	18813	2.6293	2.6370	6468.83	6469.83	1.00	1.05	1.05	1.05	63	122.0
16-Jan-17	10:30	Cloudy	18812	2.6238	2.6281	6469.83	6470.83	1.00	1.05	1.05	1.05	63	68.1
16-Jan-17	13:00	Cloudy	18804	2.6496	2.6531	6470.83	6471.83	1.00	1.05	1.05	1.05	63	55.4
21-Jan-17	8:15	Fine	18688	2.6482	2.6542	6496.95	6497.95	1.00	1.13	1.13	1.13	68	88.7
21-Jan-17	9:25	Fine	18455	2.8150	2.8195	6497.95	6498.95	1.00	1.13	1.13	1.13	68	66.5
21-Jan-17	10:26	Fine	18449	2.8221	2.8300	6498.95	6499.95	1.00	1.13	1.13	1.13	68	116.8
27-Jan-17	8:35	Fine	18476	2.8738	2.8779	6523.95	6524.95	1.00	1.05	1.05	1.05	63	65.1
27-Jan-17	9:56	Fine	18974	2.8903	2.8935	6524.95	6525.95	1.00	1.05	1.05	1.05	63	50.8
27-Jan-17	11:00	Fine	18971	2.9104	2.9135	6525.95	6526.95	1.00	1.05	1.05	1.05	63	49.2

Location: CMA4a - SPCA

Report on 24-hour TSP monitoring

Action Level (μg/m3) - 171.2

Limit Level (μg/m3) - 260

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, $\mu g/m^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
28-Dec-16	8:00	Cloudy	18656	2.6432	2.7427	23147.38	23171.38	24.00	1.23	1.17	1.20	1721	57.8
3-Jan-17	8:00	Fine	18683	2.6636	2.7170	23174.43	23198.43	24.00	1.16	1.16	1.16	1676	31.9
10-Jan-17	13:00	Fine	18727	2.6737	2.8330	23204.43	23228.43	24.00	1.21	1.23	1.22	1755	90.8
14-Jan-17	8:00	Cloudy	18834	2.8619	2.9466	23228.43	23252.43	24.00	1.22	1.22	1.22	1751	48.4
21-Jan-17	13:00	Fine	18819	2.6682	2.8310	23258.43	23282.43	24.00	1.17	1.17	1.17	1686	96.5
26-Jan-17	8:00	Fine	18482	2.8308	2.9553	23282.43	23306.43	24.00	1.22	1.21	1.22	1751	71.1

Remarks: Due to interruption of electricity, the 24hr TSP was rescheduled from 9 and 20 Jan 2017 to 10 and 21 Jan 2017 respectively.

Report on 1-hour TSP monitoring

Action Level (μg/m3) - 312.5

Limit Level (μg/m3) - 500

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, $\mu g/m^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
29-Dec-16	8:10	Cloudy	18473	2.8512	2.8554	23171.38	23172.38	1.00	1.28	1.28	1.28	77	54.7
29-Dec-16	9:40	Cloudy	18678	2.6802	2.6854	23172.38	23173.38	1.00	1.25	1.25	1.25	75	69.3
29-Dec-16	11:00	Cloudy	18463	2.8249	2.8306	23173.38	23174.38	1.00	1.22	1.22	1.22	73	77.7
4-Jan-17	8:15	Fine	18689	2.6785	2.6840	23198.43	23199.43	1.00	1.16	1.16	1.16	70	78.8
4-Jan-17	9:35	Fine	18708	2.6463	2.6516	23199.43	23200.43	1.00	1.16	1.16	1.16	70	75.9
4-Jan-17	13:00	Fine	18724	2.6555	2.6625	23200.43	23201.43	1.00	1.16	1.16	1.16	70	100.3
10-Jan-17	8:15	Fine	18866	2.8273	2.8358	23201.43	23202.43	1.00	1.21	1.21	1.21	73	117.0
10-Jan-17	9:30	Fine	18859	2.8298	2.8375	23202.43	23203.43	1.00	1.21	1.21	1.21	73	106.0
10-Jan-17	11:00	Fine	18851	2.8527	2.8591	23203.43	23204.43	1.00	1.21	1.21	1.21	73	88.1
16-Jan-17	8:30	Cloudy	18814	2.6165	2.6199	23252.43	23253.43	1.00	1.22	1.22	1.22	73	46.6
16-Jan-17	10:30	Cloudy	18811	2.6292	2.6347	23253.43	23254.43	1.00	1.22	1.22	1.22	73	75.4
16-Jan-17	13:00	Cloudy	18805	2.6734	2.6780	23254.43	23255.43	1.00	1.22	1.22	1.22	73	63.0
21-Jan-17	8:15	Fine	18795	2.6463	2.6526	23255.43	23256.43	1.00	1.22	1.22	1.22	73	86.3
21-Jan-17	9:20	Fine	18456	2.8319	2.8355	23256.43	23257.43	1.00	1.17	1.17	1.17	70	51.3
21-Jan-17	10:30	Fine	18448	2.8206	2.8261	23257.43	23258.43	1.00	1.17	1.17	1.17	70	78.3
27-Jan-17	8:37	Fine	18477	2.8681	2.8728	23306.43	23307.43	1.00	1.21	1.21	1.21	73	64.5
27-Jan-17	10:01	Fine	18989	2.8956	2.8987	23307.43	23308.43	1.00	1.19	1.19	1.19	71	43.4
27-Jan-17	13:00	Fine	18985	2.8998	2.9049	23308.43	23309.43	1.00	1.17	1.17	1.17	70	72.8

Location: CMA5b - Pedestrian Plaza

Report on 24-hour TSP monitoring
Action Level (μg/m3) - 181
Limit Level (μg/m3) - 260

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, $\mu g/m^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
28-Dec-16	8:00	Cloudy	18695	2.6357	2.7271	7754.77	7778.77	24.00	0.99	0.99	0.99	1425	64.1
3-Jan-17	8:00	Fine	18538	2.7975	2.9382	7781.77	7805.77	24.00	0.79	0.79	0.79	1136	123.9
9-Jan-17	8:00	Fine	18722	2.6728	2.9362	7808.77	7832.77	24.00	0.85	0.91	0.88	1264	208.4
14-Jan-17	8:00	Cloudy	18846	2.8518	3.0150	7835.77	7859.77	24.00	0.86	0.86	0.86	1234	132.3
20-Jan-17	8:00	Fine	18801	2.6650	2.9490	7862.77	7886.77	24.00	0.91	0.92	0.92	1320	215.1
26-Jan-17	8:00	Fine	18489	2.8413	3.0590	7889.77	7913.77	24.00	0.95	0.95	0.95	1364	159.6

Report on 1-hour TSP monitoring
Action Level (μg/m3) - 332
Limit Level (μg/m3) - 500

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, $\mu g/m^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
29-Dec-16	8:05	Cloudy	18616	2.8360	2.8437	7778.77	7779.77	1.00	1.10	1.10	1.10	66	116.3
29-Dec-16	9:15	Cloudy	18469	2.8398	2.8497	7779.77	7780.77	1.00	1.10	1.10	1.10	66	149.5
29-Dec-16	11:00	Cloudy	18466	2.8374	2.8525	7780.77	7781.77	1.00	1.10	1.10	1.10	66	228.0
4-Jan-17	8:04	Fine	18609	2.8047	2.8147	7805.77	7806.77	1.00	0.91	0.91	0.91	55	183.4
4-Jan-17	9:15	Fine	18714	2.6963	2.7131	7806.77	7807.77	1.00	0.91	0.91	0.91	55	308.0
4-Jan-17	11:00	Fine	18717	2.6760	2.6899	7807.77	7808.77	1.00	0.91	0.91	0.91	55	254.9
10-Jan-17	8:02	Fine	18769	2.6804	2.6901	7832.77	7833.77	1.00	0.79	0.79	0.79	47	204.7
10-Jan-17	9:30	Fine	18860	2.8351	2.8508	7833.77	7834.77	1.00	0.85	0.85	0.85	51	307.8
10-Jan-17	10:45	Fine	18854	2.8277	2.8378	7834.77	7835.77	1.00	0.88	0.88	0.88	53	191.2
16-Jan-17	8:02	Cloudy	18902	2.8224	2.8296	7859.77	7860.77	1.00	0.92	0.86	0.89	53	135.2
16-Jan-17	9:30	Cloudy	18836	2.8410	2.8492	7860.77	7861.77	1.00	0.92	0.86	0.89	53	154.0
16-Jan-17	13:00	Cloudy	18808	2.6508	2.6653	7861.77	7862.77	1.00	0.92	0.92	0.92	55	263.4
21-Jan-17	8:04	Fine	18910	2.8194	2.8358	7886.77	7887.77	1.00	0.92	0.92	0.92	55	297.5
21-Jan-17	9:20	Fine	18781	2.6622	2.6767	7887.77	7888.77	1.00	0.92	0.92	0.92	55	263.0
21-Jan-17	10:50	Fine	18451	2.8395	2.8547	7888.77	7889.77	1.00	0.80	0.80	0.80	48	317.7
27-Jan-17	8:04	Fine	18977	2.8929	2.8968	7913.77	7914.77	1.00	0.79	0.79	0.79	48	81.8
27-Jan-17	9:43	Fine	18975	2.8969	2.9095	7914.77	7915.77	1.00	0.92	0.92	0.92	55	229.4
27-Jan-17	10:50	Fine	18987	2.9171	2.9210	7915.77	7916.77	1.00	0.79	0.79	0.79	48	81.8

Location: CMA6a - WD2 PRE Office

Report on 24-hour TSP monitoring

Action Level - 187.3 µg/m3

Limit Level - 260 µg/m3

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, $\mu g/m^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
28-Dec-16	8:00	Cloudy	18657	2.6376	2.7205	1440.60	1464.60	24.00	0.93	0.93	0.93	1339	61.9
3-Jan-17	8:00	Fine	18531	2.7976	2.9075	1467.61	1491.61	24.00	1.01	1.01	1.01	1456	75.5
9-Jan-17	8:00	Fine	18720	2.6967	2.8600	1494.61	1518.61	24.00	0.89	0.90	0.90	1290	126.6
14-Jan-17	8:00	Cloudy	18844	2.8446	2.9299	1521.61	1545.61	24.00	1.02	1.02	1.02	1467	58.1
20-Jan-17	8:00	Fine	18820	2.6760	2.7941	1548.61	1572.61	24.00	1.02	1.02	1.02	1466	80.5
26-Jan-17	8:00	Fine	18488	2.8220	2.9624	1575.61	1599.61	24.00	1.02	1.02	1.02	1466	95.7

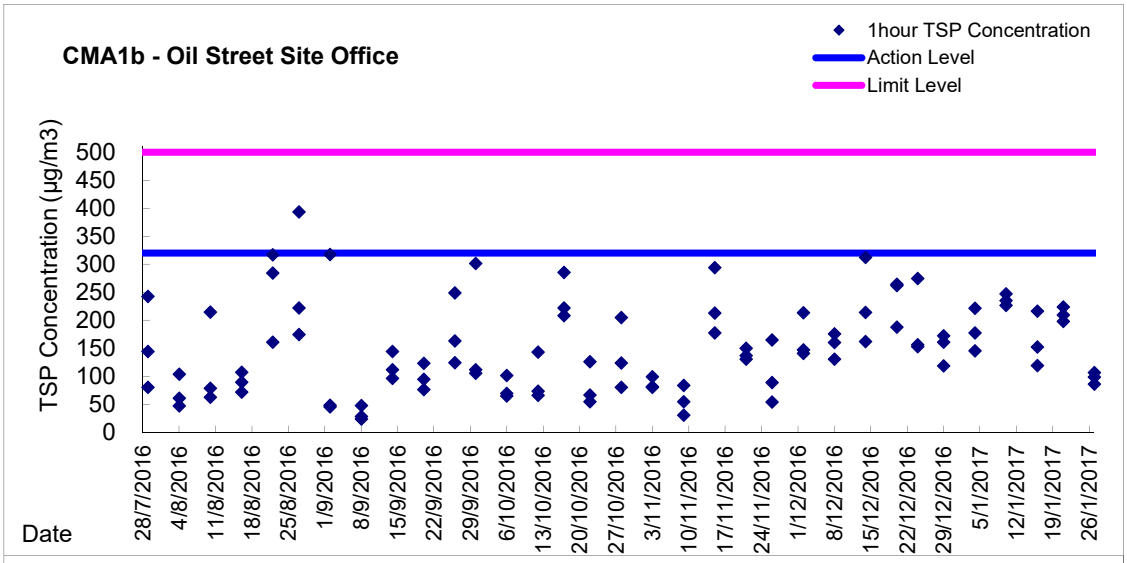
Report on 1-hour TSP monitoring

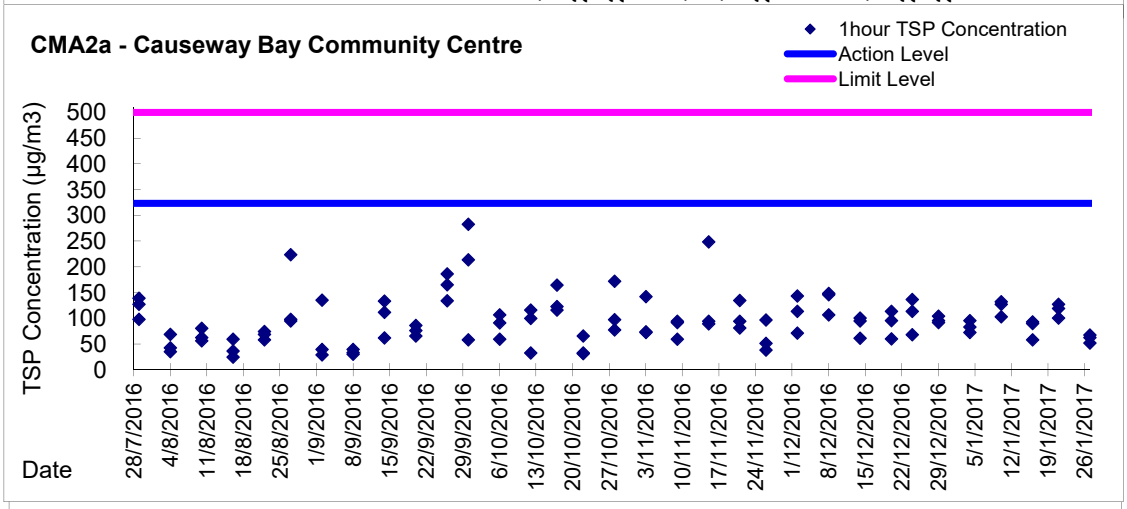
Action Level - 300.1 μ g/m^3

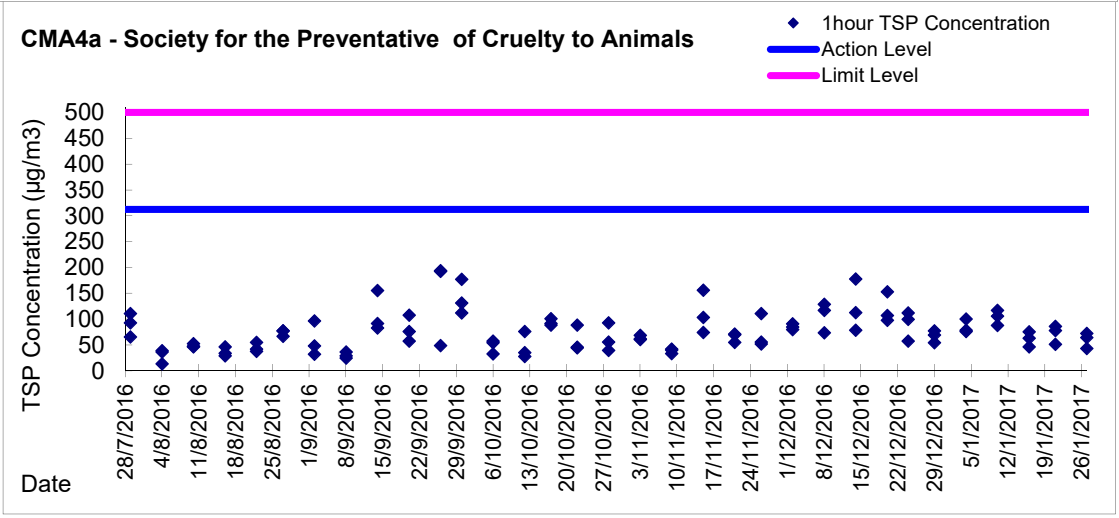
Limit Level - 500 μ g/m3

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, $\mu g/m^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
29-Dec-16	8:05	Cloudy	18443	2.8533	2.8586	1464.60	1465.60	1.00	1.06	1.06	1.06	63	83.6
29-Dec-16	9:15	Cloudy	18467	2.8356	2.8405	1465.60	1466.60	1.00	1.06	1.06	1.06	63	77.3
29-Dec-16	10:20	Cloudy	18464	2.8398	2.8449	1466.60	1467.60	1.00	1.06	1.06	1.06	63	80.4
4-Jan-17	8:03	Fine	18705	2.6398	2.6438	1491.61	1492.61	1.00	0.90	0.90	0.90	54	74.3
4-Jan-17	9:50	Fine	18712	2.6718	2.6769	1492.61	1493.61	1.00	0.90	0.90	0.90	54	94.7
4-Jan-17	10:55	Fine	18706	2.6806	2.6850	1493.61	1494.61	1.00	0.90	0.90	0.90	54	81.7
10-Jan-17	8:08	Fine	18868	2.8386	2.8470	1518.61	1519.61	1.00	1.01	1.01	1.01	61	138.3
10-Jan-17	9:30	Fine	18862	2.8641	2.8714	1519.61	1520.61	1.00	1.01	1.01	1.01	61	120.2
10-Jan-17	11:00	Fine	18852	2.8415	2.8445	1520.61	1521.61	1.00	1.01	1.01	1.01	61	49.4
16-Jan-17	8:15	Cloudy	18537	2.8174	2.8191	1545.61	1546.61	1.00	1.02	1.02	1.02	61	27.8
16-Jan-17	9:45	Cloudy	18839	2.8593	2.8650	1546.61	1547.61	1.00	1.02	1.02	1.02	61	93.2
16-Jan-17	13:00	Cloudy	18806	2.6754	2.6847	1547.61	1548.61	1.00	1.02	1.02	1.02	61	152.1
21-Jan-17	8:02	Fine	18815	2.6409	2.6526	1572.61	1573.61	1.00	1.02	1.02	1.02	61	191.2
21-Jan-17	9:10	Fine	18457	2.8307	2.8377	1573.61	1574.61	1.00	1.02	1.02	1.02	61	114.4
21-Jan-17	10:50	Fine	18452	2.8316	2.8355	1574.61	1575.61	1.00	1.02	1.02	1.02	61	63.7
27-Jan-17	8:02	Fine	18478	2.8535	2.8574	1599.61	1600.61	1.00	1.02	1.02	1.02	61	63.9
27-Jan-17	9:45	Fine	19005	2.8222	2.8276	1600.61	1601.61	1.00	1.02	1.02	1.02	61	88.5
27-Jan-17	10:48	Fine	18972	2.8769	2.8804	1601.61	1602.61	1.00	1.02	1.02	1.02	61	57.4

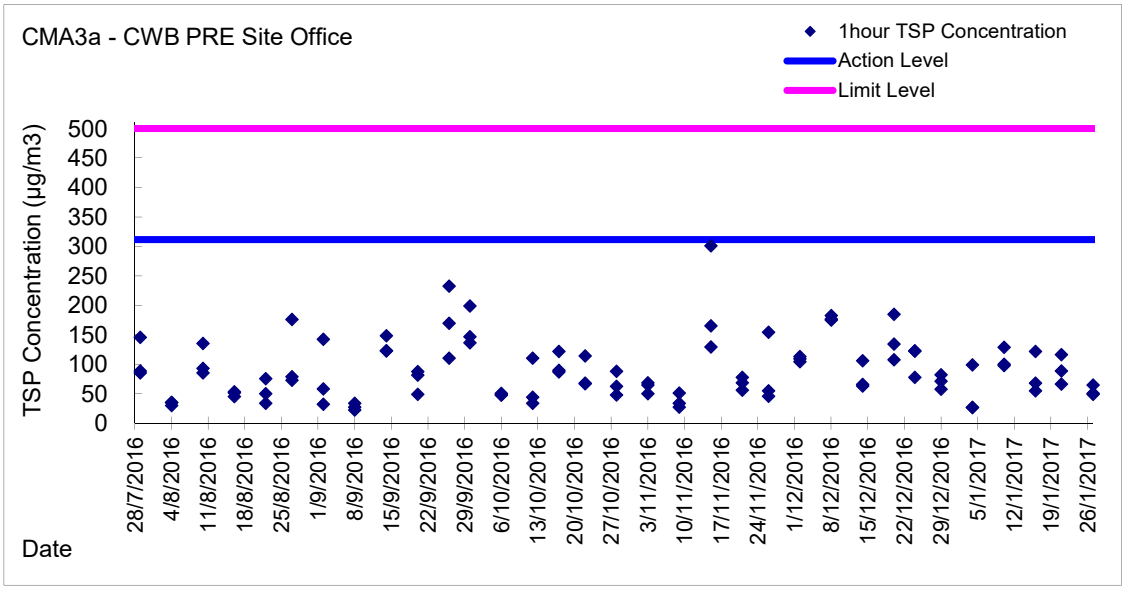
Graphic Presentation of 1 hour TSP Result

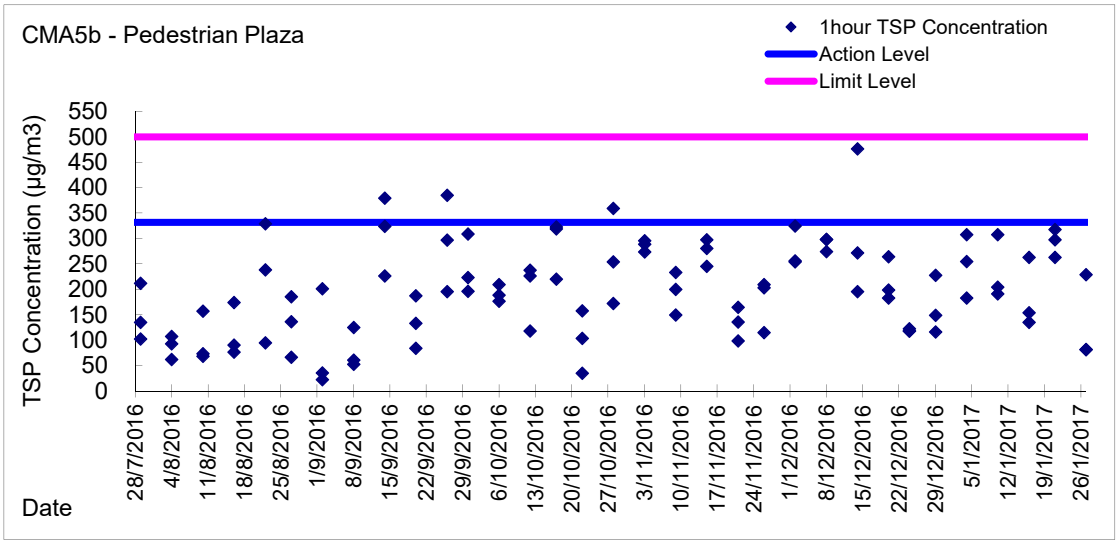


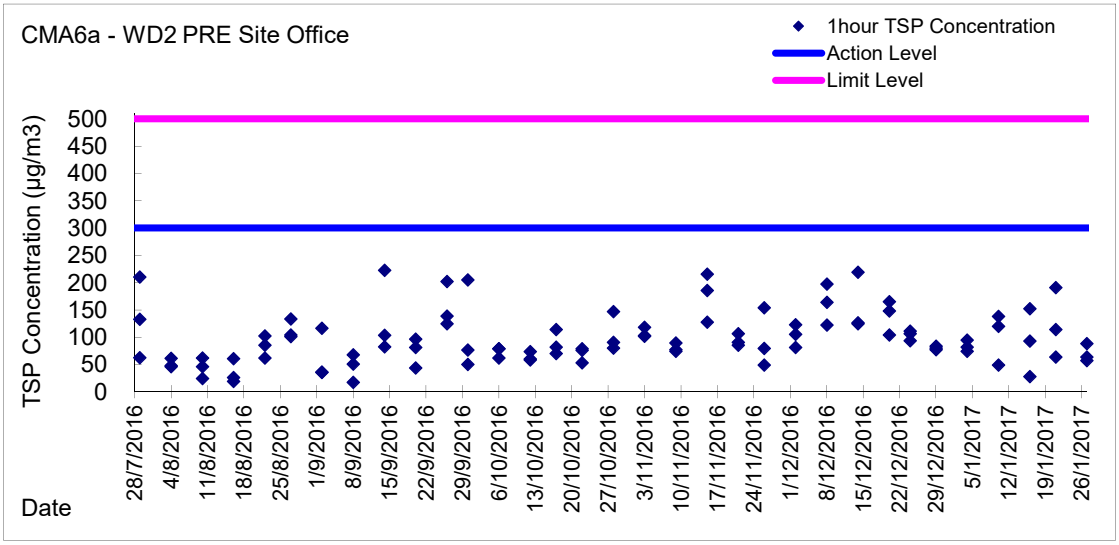




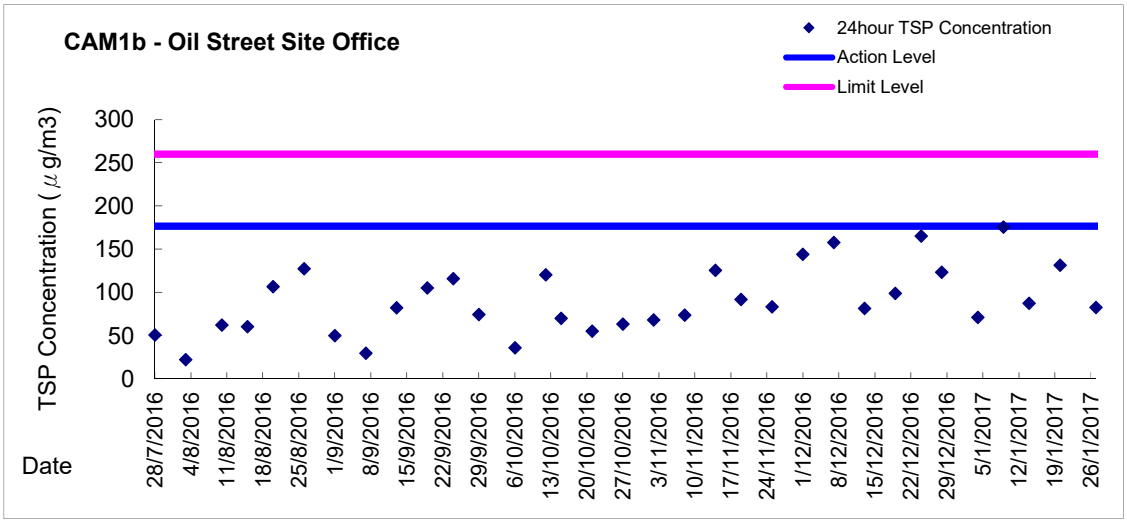
Graphic Presentation of 1 hour TSP Result

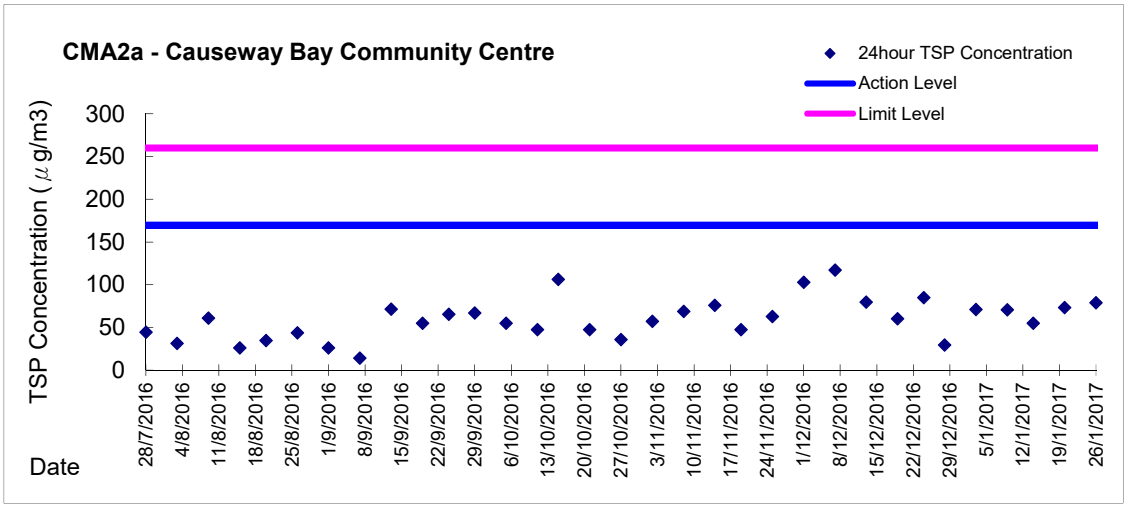


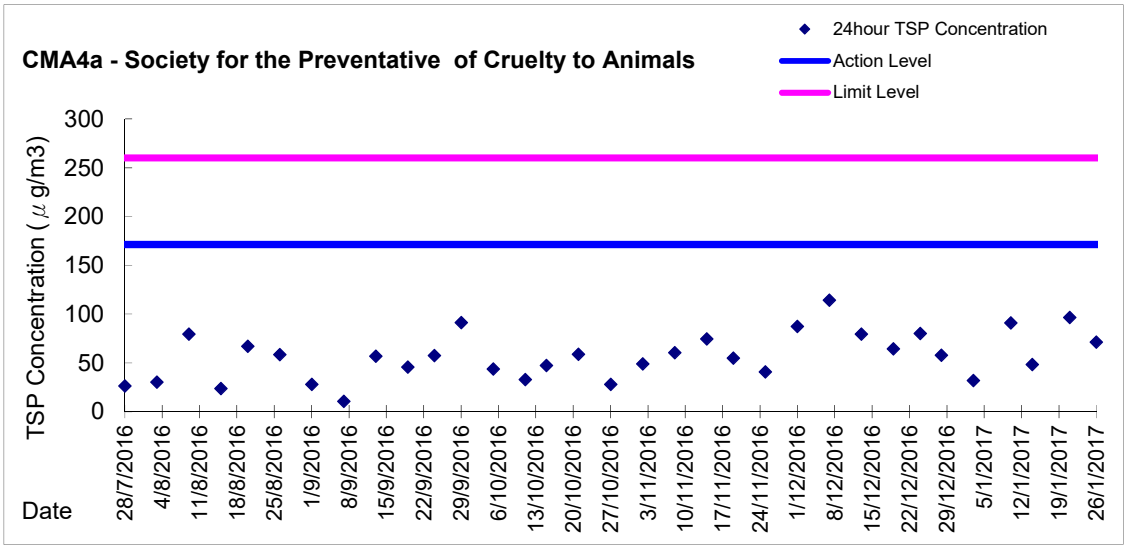




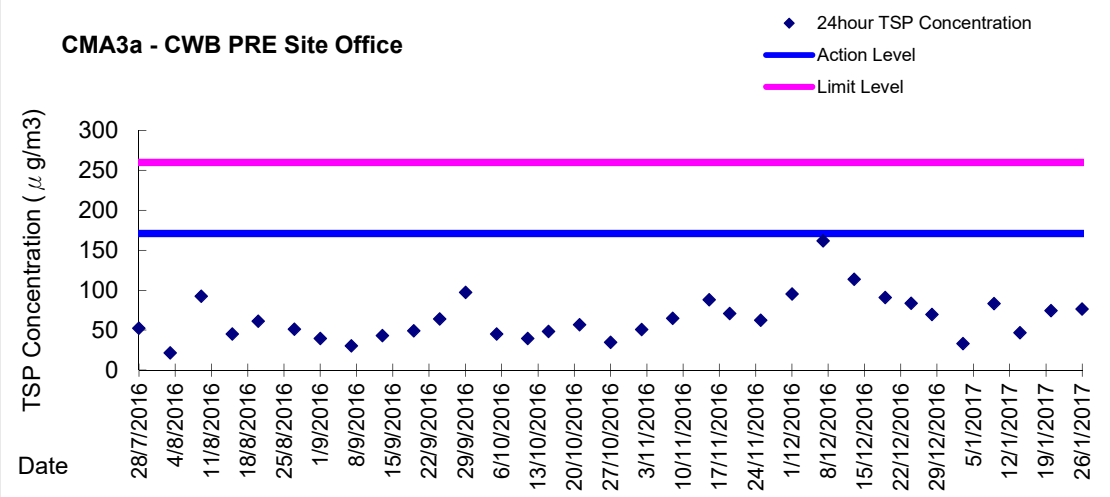
Graphic Presentation of 24 hour TSP Result

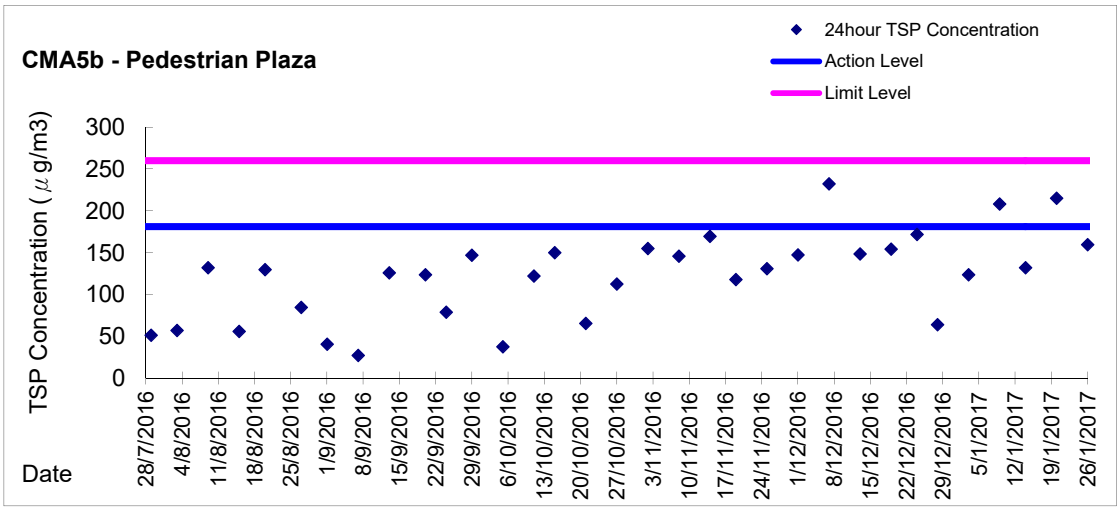


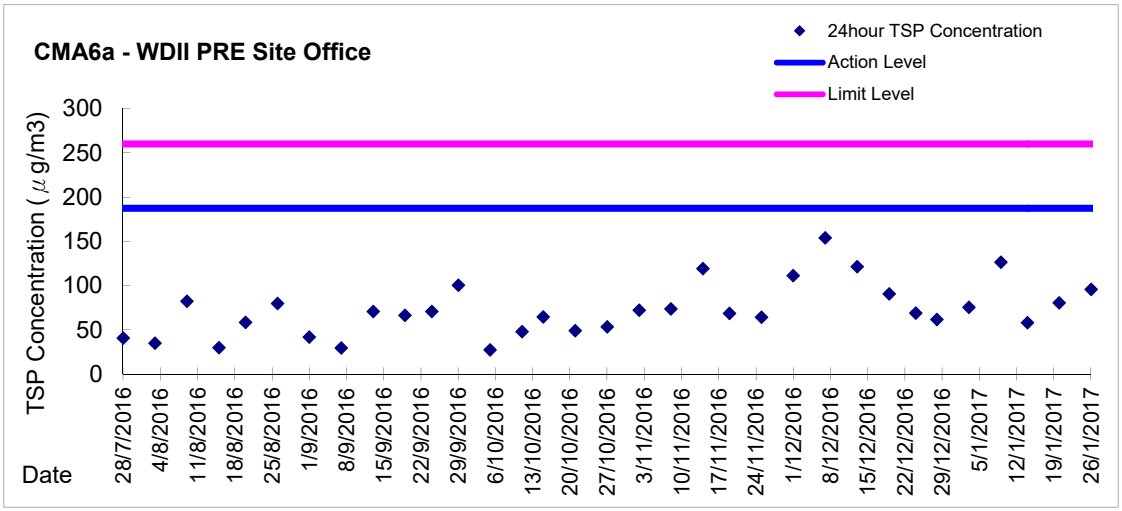




Graphic Presentation of 24 hour TSP Result







Appendix 5.4

Water Quality Monitoring Results and Graphical Presentations

Water Monitoring Result at C7 - Windsor House
Mid-Flood Tide

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
28/12/2016	15:25	Cloudy	Middle	-	19.80	19.80	19.75	8.28	8.28	8.28	30.28	30.28	30.28	91.2	92.3	91.3	6.96	7.05	6.90	5.76	5.77	5.76	6	5.00
	15:27		Middle	-	19.70	19.70		8.28	8.28		30.28	30.28		90.9	90.9		6.94	6.64		5.76	5.74		4	
30/12/2016	18:35	Fine	Middle	-	20.20	20.20	20.15	8.31	8.31	8.32	30.47	30.47	30.47	91.8	91.8	91.7	6.96	6.96	6.96	3.93	3.92	3.91	4	5.00
	18:37		Middle	-	20.10	20.10		8.32	8.32		30.47	30.47		91.5	91.8		6.94	6.96		3.90	3.89		6	
3/1/2017	12:00	Fine	Middle	-	20.80	20.80	20.80	8.28	8.28	8.28	30.37	30.37	30.37	83.4	84.1	84.7	6.25	6.30	6.34	11.69	11.53	11.55	10	10.00
	12:02		Middle	-	20.80	20.80		8.28	8.28		30.37	30.37		85.2	85.9		6.38	6.44		11.50	11.48		10	
5/1/2017	14:55	Cloudy	Middle	-	21.50	21.50	21.55	8.26	8.26	8.26	30.35	30.35	30.35	91.5	92.1	91.4	6.76	6.80	6.75	4.97	4.89	4.91	5	5.00
	14:57		Middle	-	21.60	21.60		8.26	8.26		30.34	30.34		91.1	90.9		6.73	6.71		4.86	4.93		5	
7/1/2017	13:45	Fine	Middle	-	21.80	21.80	21.80	8.19	8.19	8.19	30.24	30.24	30.23	85.9	86.2	86.3	6.32	6.34	6.35	3.06	3.07	3.05	4	3.00
	13:47		Middle	-	21.80	21.80		8.19	8.19		30.22	30.22		86.4	86.8		6.35	6.37		3.05	3.01		2	
9/1/2017	15:35	Fine	Middle	-	21.50	21.50	21.60	8.22	8.22	8.22	30.30	30.30	30.30	88.5	88.1	89.3	6.32	6.30	6.48	4.48	4.46	4.46	4	4.50
	15:37		Middle	-	21.70	21.70		8.22	8.22		30.29	30.29		90.5	90.0		6.67	6.64		4.45	4.43		5	
11/1/2017	16:50	Cloudy	Middle	-	20.60	20.60	20.60	8.30	8.30	8.31	30.56	30.56	30.57	92.1	92.9	92.6	6.93	6.99	6.97	5.46	5.47	5.48	5	5.00
	16:52		Middle	-	20.60	20.60		8.31	8.31		30.57	30.57		92.9	92.4		6.99	6.95		5.49	5.49		5	
13/1/2017	18:25	Rainy	Middle	-	19.80	19.80	19.70	8.27	8.28	8.27	30.28	30.28	30.28	89.3	90.4	90.4	6.83	6.82	6.90	5.44	5.45	5.45	8	8.00
	18:27		Middle	-	19.60	19.60		8.27	8.27		30.28	30.28		91.1	90.9		6.97	6.96		5.45	5.45		8	
16/1/2017	12:15	Cloudy	Middle	-	19.80	19.80	19.80	8.28	8.28	8.29	30.58	30.58	30.59	91.7	92.6	92.3	6.99	7.06	7.04	12.47	12.44	12.31	14	13.50
	12:17		Middle	-	19.80	19.80		8.30	8.30		30.59	30.59		92.6	92.3		7.06	7.03		12.15	12.17		13	
18/1/2017	12:06	Cloudy	Middle	-	19.80	19.80	19.80	8.29	8.29	8.30	30.60	30.60	30.60	97.0	97.4	95.3	7.23	7.16	7.15	3.66	3.61	3.60	3	3.50
	12:08		Middle	-	19.80	19.80		8.30	8.30		30.60	30.60		93.7	93.1		7.13	7.09		3.57	3.54		4	
20/1/2017	13:45	Fine	Middle	-	21.60	21.60	21.40	7.73	7.73	7.79	30.39	30.39	30.39	85.1	83.4	83.1	6.31	6.22	6.18	5.00	4.98	4.96	5	5.00
	13:47		Middle	-	21.20	21.20		7.85	7.85		30.38	30.38		82.1	81.8		6.11	6.08		4.94	4.90		5	
23/1/2017	14:35	Fine	Middle	-	19.90	19.90	19.90	8.07	8.07	8.09	30.74	30.74	30.75	82.0	81.9	82.3	6.25	6.21	6.26	5.84	5.76	5.79	3	2.50
	14:37		Middle	-	19.90	19.90		8.11	8.11		30.76	30.76		82.3	83.0		6.26	6.30		5.76	5.81		2	
25/1/2017	16:25	Fine	Middle	-	19.60	19.60	19.65	8.10	8.10	8.12	30.98	30.98	30.98	87.0	87.1	87.5	6.63	6.63	6.66	4.04	4.03	4.03	3	3.50
	16:27		Middle	-	19.70	19.70		8.13	8.13		30.98	30.98		87.9	87.9		6.69	6.69		4.03	4.02		4	

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

Water Monitoring Result at C1 - HKCEC Extension
Mid-Flood Tide

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
28/12/2016	16:51	Cloudy	Middle	3.5	19.70	19.70	19.70	8.36	8.36	8.36	30.47	30.47	31.48	86.4	86.3	83.4	6.60	6.60	6.45	6.57	6.61	6.57	5	6.00
	16:53		Middle	3.5	19.70	19.70		8.36	8.36		32.49	32.49		80.6	80.2		6.54	6.07		6.54	6.57		7	
30/12/2016	16:30	Fine	Middle	3.0	19.50	19.50	19.45	8.38	8.38	8.38	30.62	30.62	30.63	91.1	91.6	91.6	6.99	7.02	7.02	3.41	3.30	3.34	4	4.50
	16:37		Middle	3.0	19.40	19.40		8.38	8.38		30.63	30.63		91.7	91.8		7.03	7.04		3.30	3.34		5	
3/1/2017	10:45	Fine	Middle	3.5	20.40	20.40	20.50	8.32	8.32	8.33	30.52	30.52	30.50	91.3	90.4	90.2	6.87	6.80	6.66	3.87	3.64	3.73	8	7.00
	10:47		Middle	3.5	20.60	20.60		8.33	8.33		30.48	30.48		89.7	89.3		6.25	6.71		3.72	3.69		6	
5/1/2017	11:30	Cloudy	Middle	3.5	20.50	20.50	20.60	8.31	8.31	8.31	30.46	30.46	30.46	91.3	90.9	90.9	6.86	6.82	6.82	4.28	4.24	4.16	4	3.00
	11:32		Middle	3.5	20.70	20.70		8.31	8.31		30.45	30.45		90.7	90.5		6.80	6.78		4.07	4.05		2	
7/1/2017	11:01	Fine	Middle	3.5	21.10	21.10	21.10	8.26	8.06	8.21	30.27	30.27	30.27	81.3	82.5	82.5	6.06	6.16	6.15	2.45	2.45	2.46	4	4.00
	11:03		Middle	3.5	21.10	21.10		8.26	8.26		30.27	30.27		83.1	83.2		6.19	6.20		2.47	2.48		4	
9/1/2017	14:33	Fine	Middle	2.5	20.80	20.80	20.85	8.30	8.30	8.30	30.30	30.30	30.31	77.8	76.9	76.4	5.82	5.76	5.72	2.47	2.46	2.46	4	3.00
	14:35		Middle	2.5	20.90	20.90		8.30	8.30		30.31	30.31		76.6	74.4		5.73	5.57		2.45	2.45		2	
11/1/2017	16:05	Cloudy	Middle	3.0	20.00	20.00	20.00	8.37	8.37	8.37	30.68	30.68	30.69	87.9	89.8	89.7	6.67	6.81	6.81	3.73	3.85	3.82	3	3.00
	16:07		Middle	3.0	20.00	20.00		8.37	8.37		30.71	30.71		90.5	90.7		6.86	6.88		3.86	3.85		3	
13/1/2017	16:40	Rainy	Middle	3.0	19.20	19.20	19.15	8.35	8.35	8.35	30.56	30.56	30.57	87.9	88.4	88.2	6.78	6.82	6.81	4.82	4.82	4.86	5	5.00
	16:42		Middle	3.0	19.10	19.10		8.35	8.35		30.57	30.57		88.4	88.2		6.83	6.82		4.83	4.95		5	
16/1/2017	10:25	Cloudy	Middle	3.5	18.30	18.30	18.25	8.36	8.36	8.36	30.63	30.63	30.64	87.4	87.9	87.5	6.86	6.88	6.86	5.23	5.25	5.19	4	4.00
	10:27		Middle	3.5	18.20	18.20		8.36	8.36		30.65	30.65		87.2	87.5		6.84	6.87		5.14	5.13		4	
18/1/2017	10:50	Cloudy	Middle	3.5	19.50	19.50	19.45	8.29	8.29	8.29	30.62	30.62	30.62	88.2	88.0	86.7	6.74	6.73	6.57	4.02	4.06	4.08	6	6.50
	10:52		Middle	3.5	19.10	19.70		8.29	8.29		30.62	30.62		88.0	82.4		6.12	6.68		4.11	4.12		7	
20/1/2017	11:05	Fine	Middle	3.0	19.40	19.40	19.40	8.11	8.11	8.11	30.30	30.30	30.30	82.4	81.9	82.4	6.34	6.30	6.34	4.89	4.93	4.90	4	5.00
	11:07		Middle	3.0	19.40	19.40		8.11	8.11		30.30	30.30		82.3	82.9		6.33	6.37		4.89	4.87		6	
23/1/2017	13:20	Fine	Middle	3.0	19.10	19.10	19.10	8.18	8.18	8.19	30.90	30.90	30.90	81.6	82.3	82.5	6.29	6.34	6.36	3.89	3.85	3.87	2	2.00
	13:22		Middle	3.0	19.10	19.10		8.19	8.19		30.90	30.90		83.0	82.9		6.40	6.39		3.86	3.86		2	
25/1/2017	15:05	Fine	Middle	3.0	19.50	19.50	19.55	8.20	8.20	8.20	31.09	31.09	31.09	89.0	89.1	89.2	6.79	6.80	6.80	4.34	4.26	4.28	4	3.00
	15:07		Middle	3.0	19.60	19.60		8.20	8.20		31.08	31.08		89.8	88.9		6.84	6.78		4.25	4.26		2	

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

Water Monitoring Result at P1 - HKCEC Phase I
Mid-Flood Tide

Date	Time	Weater Condition	Sampling Depth		Water Temperature °C			pH -			Salinity ppt			DO Saturation %			DO mg/L			Turbidity NTU			Suspended Solids mg/L	
			m		Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
28/12/2016	16:35	Cloudy	Middle	3.5	19.00	19.00	19.00	8.35	8.35	8.35	30.52	30.52	30.53	90.5	90.5	90.3	7.00	7.00	6.98	5.09	5.12	5.11	4	5.00
	16:37		Middle	3.5	19.00	19.00		8.35	8.35		30.53	30.53		90.2	89.9		6.98	6.95		5.12	5.11		6	
30/12/2016	16:10	Fine	Middle	3.0	19.20	19.20	19.25	8.38	8.38	8.38	30.62	30.62	30.62	87.6	87.3	88.7	6.74	6.72	6.79	3.72	3.72	3.73	4	3.50
	16:12		Middle	3.0	19.30	19.30		8.38	8.38		30.62	30.62		89.8	90.1		6.81	6.88		3.73	3.74		3	
3/1/2017	10:49	Fine	Middle	3.5	20.20	20.20	20.25	8.32	8.32	8.32	30.51	30.51	30.51	86.7	86.4	86.1	6.55	6.53	6.51	3.59	3.61	3.57	5	4.50
	10:51		Middle	3.5	20.30	20.30		8.32	8.32		30.51	30.51		85.1	86.3		6.43	6.52		3.59	3.50		4	
5/1/2017	11:05	Cloudy	Middle	3.5	21.40	21.40	21.40	8.28	8.28	8.29	30.42	30.42	30.43	92.9	92.4	92.1	6.89	6.85	6.83	3.31	3.22	3.29	<2	<2
	11:07		Middle	3.5	21.40	21.40		8.29	8.29		30.43	30.43		91.6	91.5		6.79	6.78		3.30	3.32		<2	
7/1/2017	10:45	Fine	Middle	3.5	21.20	21.20	21.25	8.27	8.27	8.27	30.57	30.57	30.56	84.5	83.6	83.5	6.27	6.20	6.20	2.59	2.59	2.58	2	3.00
	10:47		Middle	3.5	21.30	21.30		8.27	8.27		30.54	30.54		83.1	82.9		6.17	6.16		2.58	2.57		4	
9/1/2017	14:17	Fine	Middle	2.5	20.90	20.90	20.90	8.27	8.27	8.26	30.49	30.49	30.48	76.3	76.2	75.8	5.70	5.69	5.66	2.23	2.22	2.17	2	2.50
	14:19		Middle	2.5	20.90	20.90		8.23	8.27		30.47	30.47		75.6	75.1		5.64	5.60		2.12	2.11		3	
11/1/2017	15:45	Cloudy	Middle	3.0	20.20	20.20	20.25	8.34	8.34	8.34	30.75	30.75	30.74	83.4	82.6	84.4	6.30	6.24	6.37	3.18	3.16	3.15	3	3.00
	15:47		Middle	3.0	20.30	20.30		8.34	8.34		30.74	30.71		83.3	88.2		6.29	6.66		3.15	3.12		3	
13/1/2017	16:20	Rainy	Middle	3.0	19.00	19.00	19.00	8.34	8.34	8.35	30.56	30.56	30.56	92.0	91.8	91.9	7.13	7.12	7.12	5.10	5.10	5.10	6	6.00
	16:22		Middle	3.0	19.00	19.00		8.35	8.35		30.56	30.56		92.8	91.1		7.17	7.06		5.10	5.09		6	
16/1/2017	10:00	Cloudy	Middle	3.5	17.80	17.80	17.80	8.33	8.33	8.33	30.59	30.59	30.60	83.6	84.1	83.9	6.62	6.66	6.64	5.35	5.42	5.44	4	4.00
	10:05		Middle	3.5	17.80	17.80		8.33	8.33		30.61	30.61		83.9	83.8		6.64	6.63		5.47	5.51		4	
18/1/2017	10:54	Cloudy	Middle	3.5	19.30	19.30	19.35	8.30	8.30	8.30	30.60	30.60	30.60	87.0	86.9	86.3	6.69	6.68	6.63	4.49	4.46	4.47	3	3.00
	10:56		Middle	3.5	19.40	19.40		8.29	8.29		30.60	30.60		86.0	85.2		6.60	6.55		4.46	4.45		3	
20/1/2017	10:45	Fine	Middle	3.0	19.20	19.20	19.20	8.06	8.06	8.07	30.49	30.49	30.54	81.9	82.0	81.1	6.31	6.32	6.26	6.17	6.15	6.13	6	5.00
	10:47		Middle	3.0	19.20	19.20		8.07	8.07		30.59	30.59		80.1	80.5		6.18	6.22		6.10	6.11		4	
23/1/2017	13:00	Fine	Middle	3.0	19.20	19.20	19.25	8.04	8.04	8.07	31.06	31.06	31.06	85.4	85.6	85.0	6.56	6.52	6.51	4.80	4.82	4.81	<2	<2
	13:02		Middle	3.0	19.30	19.30		8.09	8.09		31.07	31.05		84.6	84.3		6.49	6.47		4.81	4.82		<2	
25/1/2017	14:45	Fine	Middle	3.0	19.90	19.90	20.00	8.10	8.10	8.12	31.11	31.11	31.11	88.3	87.6	67.9	6.68	6.62	6.62	3.44	3.44	3.43	4	3.00
	14:47		Middle	3.0	20.10	20.10		8.13	8.13		31.10	31.10		87.4	8.1		6.60	6.58		3.42	3.42		2	

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

Water Monitoring Result at P3 - APA
Mid-Flood Tide

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
28/12/2016	16:39	Cloudy	Middle	3.5	19.20	19.20	19.15	8.36	8.36	8.36	30.51	30.51	30.52	87.4	87.7	87.8	6.74	6.77	6.78	5.28	5.27	5.27	4	4.50
	16:41		Middle	3.5	19.10	19.10		8.36	8.36		30.52	30.52		87.9	88.1		6.79	6.80		5.26	5.26		5	
30/12/2016	16:15	Fine	Middle	3.0	19.20	19.20	19.20	8.38	8.38	8.38	30.66	30.66	30.66	91.7	90.5	91.8	7.06	6.97	7.07	4.83	4.89	4.82	4	3.50
	16:17		Middle	3.0	19.20	19.20		8.38	8.38		30.66	30.66		92.2	92.6		7.10	7.13		4.73	4.84		3	
3/1/2017	10:53	Fine	Middle	3.5	20.10	20.10	25.15	8.30	8.32	8.32	30.51	30.51	30.51	80.0	80.5	82.6	6.44	6.47	6.43	4.55	4.84	4.56	5	5.00
	10:55		Middle	3.5	30.20	30.20		8.32	8.32		30.51	30.51		85.4	84.4		6.42	6.39		4.40	4.44		5	
5/1/2017	11:10	Cloudy	Middle	3.5	20.80	20.80	20.85	8.31	8.31	8.31	30.48	30.48	30.48	90.1	90.0	89.5	6.74	6.72	6.68	2.96	2.96	2.96	2	3.00
	11:12		Middle	3.5	20.90	20.90		8.31	8.31		30.48	30.48		89.0	88.7		6.65	6.62		2.95	2.95		4	
7/1/2017	10:49	Fine	Middle	3.5	20.80	20.80	20.85	8.28	8.28	8.28	30.46	30.46	30.46	81.2	81.3	81.2	6.08	6.08	6.07	2.23	2.22	2.21	4	4.00
	10:51		Middle	3.5	20.90	20.90		8.27	8.27		30.46	30.46		81.2	81.1		6.07	6.06		2.20	2.17		4	
9/1/2017	14:21	Fine	Middle	2.5	20.70	20.70	20.75	8.26	8.26	8.26	30.41	30.41	30.41	84.9	86.9	86.6	6.37	6.51	6.49	2.11	2.11	2.11	3	4.00
	14:23		Middle	2.5	20.80	20.80		8.26	8.26		30.40	30.40		87.2	87.4		6.54	6.55		2.12	2.11		5	
11/1/2017	15:50	Cloudy	Middle	3.0	19.80	19.80	19.80	8.36	8.36	8.36	30.70	30.70	30.70	89.7	90.4	90.3	6.82	6.88	6.87	3.85	3.65	3.63	7	6.00
	15:52		Middle	3.0	19.80	19.80		8.36	8.36		30.70	30.70		90.5	90.4		6.88	6.88		3.50	3.50		5	
13/1/2017	16:25	Rainy	Middle	3.0	19.20	19.20	19.15	8.35	8.35	8.36	30.56	30.56	30.57	89.7	90.0	89.8	6.92	6.94	6.92	5.12	5.09	5.08	4	4.50
	16:27		Middle	3.0	19.10	19.10		8.36	8.36		30.57	30.57		89.8	89.6		6.92	6.91		5.08	5.01		5	
16/1/2017	10:10	Cloudy	Middle	3.5	18.10	18.10	18.05	8.34	8.34	8.34	30.53	30.53	30.56	87.2	87.5	87.4	6.88	6.90	6.90	4.40	4.34	4.36	4	4.00
	10:12		Middle	3.5	18.00	18.00		8.34	8.34		30.59	30.59		87.5	87.4		6.90	6.90		4.35	4.35		4	
18/1/2017	10:58	Cloudy	Middle	3.5	19.30	19.30	19.30	8.32	8.32	8.32	30.67	30.67	30.67	85.6	85.5	84.8	6.60	6.57	6.52	6.20	6.06	6.14	3	3.50
	11:00		Middle	3.5	19.30	19.30		8.32	8.32		30.67	30.67		84.6	83.3		6.50	6.40		6.14	6.16		4	
20/1/2017	10:50	Fine	Middle	3.0	19.00	19.00	19.05	8.02	8.02	8.06	30.49	30.49	30.49	77.5	78.6	78.0	5.99	6.04	6.02	4.66	4.65	4.65	6	5.50
	10:52		Middle	3.0	19.10	19.10		8.09	8.09		30.48	30.48		77.9	77.8		6.02	6.02		4.65	4.65		5	
23/1/2017	13:05	Fine	Middle	3.0	18.90	18.90	18.95	8.12	8.12	8.13	30.99	30.99	30.99	83.1	82.8	83.4	6.42	6.40	6.44	3.48	3.43	3.41	<2	<2
	13:07		Middle	3.0	19.00	19.00		8.14	8.14		30.99	30.99		83.7	83.9		6.46	6.47		3.41	3.31		<2	
25/1/2017	14:50	Fine	Middle	3.0	19.50	19.50	19.60	8.15	8.15	8.16	31.10	31.10	31.10	87.7	87.9	88.3	6.70	6.71	6.73	3.80	3.82	3.80	6	5.50
	14:52		Middle	3.0	19.70	19.70		8.16	8.16		31.09	31.09		88.7	88.7		6.76	6.76		3.83	3.74		5	

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

Water Monitoring Result at P4 - SOC
Mid-Flood Tide

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
28/12/2016	16:43	Cloudy	Middle	3.5	19.40	19.40	19.40	8.35	8.35	8.36	30.53	30.53	30.53	87.7	87.9	88.0	6.74	6.75	6.73	5.43	5.37	5.40	6	5.50
	16:45		Middle	3.5	19.40	19.40		8.36	8.36		30.53	30.53		88.1	88.1		6.71	6.71		5.39	5.41		5	
30/12/2016	16:20	Fine	Middle	3.0	19.40	19.40	19.40	8.38	8.38	8.38	30.62	30.62	30.63	90.1	90.6	90.2	6.94	6.96	6.93	4.53	4.55	4.47	5	6.00
	16:22		Middle	3.0	19.40	19.40		8.38	8.38		30.64	30.64		90.9	89.2		6.97	6.84		4.47	4.33		7	
3/1/2017	10:47	Fine	Middle	3.5	20.20	20.20	20.20	8.33	8.33	8.33	30.53	30.53	30.53	84.1	84.1	84.1	6.41	6.40	6.37	4.66	4.68	4.79	6	5.50
	10:49		Middle	3.5	20.20	20.20		8.33	8.33		30.52	30.52		84.6	83.6		6.36	6.32		4.80	5.01		5	
5/1/2017	11:15	Cloudy	Middle	3.5	20.60	20.60	20.65	8.30	8.30	8.30	30.36	30.36	30.41	89.6	89.4	89.0	6.72	6.71	6.68	3.21	3.20	3.11	4	4.00
	11:17		Middle	3.5	20.70	20.70		8.30	8.30		30.45	30.45		88.8	88.3		6.66	6.62		3.05	2.99		4	
7/1/2017	10:53	Fine	Middle	3.5	20.80	20.80	20.85	8.28	8.28	8.28	30.34	30.34	30.34	80.6	80.9	80.9	6.03	6.05	6.05	2.57	2.63	2.62	3	2.50
	10:55		Middle	3.5	20.90	20.90		8.28	8.28		30.34	30.34		80.9	81.0		6.05	6.05		2.64	2.64		2	
9/1/2017	14:25	Fine	Middle	2.5	20.80	20.80	20.80	8.29	8.29	8.29	30.41	30.41	30.42	75.9	76.1	74.8	5.69	5.70	5.61	3.19	2.97	3.03	4	4.50
	14:27		Middle	2.5	20.80	20.80		8.29	8.29		30.42	30.42		74.6	72.7		5.59	5.45		2.97	2.97		5	
11/1/2017	15:55	Cloudy	Middle	3.0	19.90	19.90	19.90	8.36	8.36	8.34	30.69	30.69	30.69	88.4	88.4	89.1	6.72	6.71	6.77	3.41	3.41	3.41	3	3.50
	15:57		Middle	3.0	19.90	19.90		8.26	8.36		30.69	30.69		89.8	89.8		6.82	6.82		3.41	3.41		4	
13/1/2017	16:30	Rainy	Middle	3.0	19.30	19.30	19.25	8.35	8.35	8.35	30.57	30.57	30.57	89.9	90.1	89.7	6.91	6.93	6.90	4.83	4.83	4.84	4	4.50
	16:32		Middle	3.0	19.20	19.20		8.35	8.35		30.57	30.57		89.7	89.1		6.90	6.84		4.84	4.84		5	
16/1/2017	10:15	Cloudy	Middle	3.5	18.20	18.20	18.15	8.36	8.36	8.36	30.61	30.61	30.62	83.9	84.2	84.1	6.59	6.62	6.61	5.36	5.37	5.40	4	4.50
	10:17		Middle	3.5	18.10	18.10		8.36	8.36		30.63	30.63		84.4	84.0		6.63	6.60		5.42	5.43		5	
18/1/2017	11:02	Cloudy	Middle	3.5	19.20	19.20	19.25	8.33	8.33	8.33	30.68	30.68	30.68	88.1	87.9	87.5	6.78	6.76	6.73	6.51	6.52	6.51	8	7.50
	11:04		Middle	3.5	19.30	19.30		8.33	8.33		30.68	30.68		87.5	86.6		6.73	6.66		6.52	6.50		7	
20/1/2017	10:55	Fine	Middle	3.0	19.40	19.40	19.40	8.09	8.09	8.09	30.46	30.46	30.47	79.5	79.8	79.6	6.11	6.13	6.12	5.15	5.01	5.06	4	4.50
	10:57		Middle	3.0	19.40	19.40		8.09	8.09		30.48	30.48		79.6	79.6		6.11	6.11		5.00	5.07		5	
23/1/2017	13:10	Fine	Middle	3.0	18.90	18.90	18.90	8.16	8.16	8.16	30.89	30.89	30.92	82.5	82.7	82.9	6.39	6.41	6.42	4.66	4.60	4.55	3	3.00
	13:12		Middle	3.0	18.90	18.90		8.16	8.16		30.95	30.95		83.1	83.2		6.44	6.44		4.50	4.45		3	
25/1/2017	14:55	Fine	Middle	3.0	19.40	19.40	19.45	8.18	8.18	8.18	31.10	31.10	31.10	88.8	89.0	88.2	6.79	6.81	6.75	3.79	3.82	3.78	5	4.50
	14:57		Middle	3.0	19.50	19.50		8.18	8.18		31.09	31.09		87.6	87.5		6.70	6.69		3.75	3.74		4	

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

Water Monitoring Result at P5 - WCT / RT / IT
Mid-Flood Tide

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
28/12/2016	16:47	Cloudy	Middle	3.5	19.50	19.50	19.50	8.36	8.36	8.36	30.50	30.50	30.51	87.5	86.2	81.4	6.70	6.61	6.62	6.28	6.24	6.23	5	4.50
	16:49		Middle	3.5	19.50	19.50		8.36	8.36		30.51	30.51		65.4	86.3		6.55	6.62		6.21	6.18		4	
30/12/2016	16:25	Fine	Middle	3.0	19.00	19.00	19.25	8.38	8.38	8.38	30.62	30.62	30.63	91.5	91.2	91.7	7.00	6.99	7.02	3.83	3.84	3.86	3	3.50
	16:27		Middle	3.0	19.50	19.50		8.38	8.38		30.63	30.63		92.0	92.0		7.04	7.04		3.88	3.90		4	
3/1/2017	10:51	Fine	Middle	3.5	20.40	20.40	20.40	8.33	8.33	8.33	30.53	30.53	30.53	86.7	87.0	86.9	6.54	6.56	6.56	5.84	6.16	5.83	6	7.00
	10:53		Middle	3.5	20.40	20.40		8.33	8.33		30.53	30.53		86.9	86.9		6.55	6.57		5.76	5.55		8	
5/1/2017	11:20	Cloudy	Middle	3.5	20.50	20.50	20.55	8.31	8.31	8.31	30.46	30.46	30.47	88.2	88.3	88.3	6.63	6.64	6.63	4.10	4.08	4.08	5	4.50
	11:22		Middle	3.5	20.60	20.60		8.31	8.31		30.47	30.47		88.2	88.3		6.62	6.63		4.07	4.06		4	
7/1/2017	10:57	Fine	Middle	3.5	20.90	20.90	20.95	8.26	8.26	8.26	30.77	30.27	30.65	76.2	71.3	74.3	5.69	5.77	5.77	2.88	2.88	2.88	<2	2.00
	10:59		Middle	3.5	21.00	21.00		8.25	8.25		30.77	30.77		77.7	71.9		5.80	5.82		2.88	2.88		2	
9/1/2017	14:29	Fine	Middle	2.5	20.70	20.70	20.75	8.30	8.30	8.30	30.33	30.33	30.33	80.8	80.2	80.2	6.06	6.02	6.02	2.72	2.65	2.63	3	3.00
	14:31		Middle	2.5	20.80	20.80		8.30	8.30		30.33	30.33		80.2	79.7		6.01	5.97		2.59	2.55		3	
11/1/2017	16:00	Cloudy	Middle	3.0	20.20	20.20	20.10	8.36	8.36	8.36	30.67	30.67	30.69	88.7	89.3	89.0	6.73	6.78	6.76	3.72	3.82	3.80	4	3.50
	16:02		Middle	3.0	20.00	20.00		8.36	8.36		30.71	30.71		88.9	89.2		6.75	6.76		3.83	3.83		3	
13/1/2017	16:35	Rainy	Middle	3.0	19.30	19.30	19.25	8.35	8.35	8.35	30.58	30.58	30.58	88.4	88.9	88.6	6.81	6.85	6.83	4.73	4.74	4.73	5	5.00
	16:37		Middle	3.0	19.20	19.20		8.35	8.35		30.58	30.58		88.5	88.6		6.82	6.83		4.74	4.72		5	
16/1/2017	10:20	Cloudy	Middle	3.5	18.30	18.30	18.25	8.36	8.36	8.36	30.61	30.61	30.63	82.4	82.3	82.3	6.45	6.45	6.45	5.96	5.77	5.74	6	5.00
	10:22		Middle	3.5	18.20	18.20		8.36	8.36		30.65	30.65		82.3	82.1		6.45	6.44		5.68	5.55		4	
18/1/2017	11:06	Cloudy	Middle	3.5	19.30	19.30	19.30	8.33	8.33	8.33	30.67	30.67	30.68	89.0	88.8	88.5	6.84	6.83	6.80	4.98	4.96	4.95	5	5.50
	11:08		Middle	3.5	19.30	19.30		8.33	8.33		30.68	30.68		88.4	87.7		6.79	6.74		4.94	4.90		6	
20/1/2017	11:00	Fine	Middle	3.0	19.40	19.40	19.40	8.10	8.10	8.13	30.47	30.47	30.48	78.8	79.0	78.7	6.05	6.07	6.04	4.45	4.46	4.57	5	6.00
	11:02		Middle	3.0	19.40	19.40		8.16	8.16		30.48	30.48		78.3	78.5		6.01	6.02		4.58	4.77		7	
23/1/2017	13:15	Fine	Middle	3.0	19.00	19.00	19.00	8.17	8.17	8.18	30.90	30.90	30.90	83.3	83.2	83.2	6.41	6.41	6.41	4.15	4.20	4.20	3	2.50
	13:17		Middle	3.0	19.00	19.00		8.18	8.18		30.90	30.90		83.0	83.1		6.40	6.42		4.22	4.23		2	
25/1/2017	15:00	Fine	Middle	3.0	19.40	19.40	19.40	8.19	8.19	8.19	31.10	31.10	31.10	87.2	87.9	87.8	6.67	6.73	6.73	3.44	3.44	3.44	4	4.00
	15:02		Middle	3.0	19.40	19.40		8.19	8.19		31.10	31.10		88.1	88.0		6.75	6.75		3.44	3.43		4	

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

Water Monitoring Result at RW21-P789W - GEC / CRB / SHK
Mid-Flood Tide

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
28/12/2016	17:00	Cloudy	Middle	3.5	20.00	20.00	20.05	8.35	8.35	8.35	30.57	30.57	30.58	89.5	89.5	89.6	6.81	6.81	6.82	5.60	5.60	5.62	5	5.50
	17:02		Middle	3.5	20.20	20.00		8.35	8.35		30.58	30.58		89.6	89.9		6.82	6.85		5.63	5.65		6	
30/12/2016	17:00	Fine	Middle	4.0	19.80	19.80	19.80	8.38	8.38	8.39	30.62	30.62	30.63	91.5	92.1	91.9	6.97	7.02	7.01	4.06	4.04	4.04	8	7.00
	17:02		Middle	4.0	19.80	19.80		8.39	8.39		30.63	30.63		92.0	92.1		7.01	7.02		4.03	4.02		6	
3/1/2017	11:20	Fine	Middle	3.5	20.50	20.50	20.50	8.32	8.32	8.32	30.48	30.48	30.48	90.0	90.4	89.9	6.78	6.81	6.77	4.85	4.95	4.91	6	5.50
	11:22		Middle	3.5	20.50	20.50		8.32	8.32		30.48	30.48		90.0	89.1		6.77	6.70		4.95	4.89		5	
5/1/2017	14:35	Cloudy	Middle	3.5	20.80	20.80	20.85	8.29	8.29	8.29	30.53	30.53	30.52	86.5	87.5	87.0	6.47	6.55	6.51	3.84	3.84	3.85	4	4.00
	14:37		Middle	3.5	20.90	20.90		8.29	8.29		30.51	30.51		87.5	86.5		6.55	6.47		3.87	3.86		4	
7/1/2017	13:00	Fine	Middle	4.0	21.50	21.50	21.50	8.28	8.28	8.28	30.44	30.44	30.43	90.0	90.0	90.0	6.65	6.65	6.65	3.59	3.50	3.50	6	5.00
	13:02		Middle	4.0	21.50	21.50		8.28	8.28		30.41	30.41		90.0	90.1		6.65	6.66		3.47	3.44		4	
9/1/2017	15:04	Fine	Middle	3.5	21.00	21.00	21.00	8.30	8.30	8.30	30.43	30.43	30.43	81.6	81.9	81.7	6.09	6.07	6.08	2.88	2.87	2.88	3	3.50
	15:06		Middle	3.5	21.00	21.00		8.30	8.30		30.43	30.43		81.6	81.6		6.09	6.08		2.87	2.90		4	
11/1/2017	16:20	Cloudy	Middle	3.5	20.30	20.30	20.25	8.35	8.35	8.36	30.69	30.69	30.70	92.4	93.2	93.2	6.89	7.04	7.01	2.88	2.88	2.87	5	4.50
	16:22		Middle	3.5	20.20	20.20		8.36	8.36		30.70	30.70		93.5	93.7		7.06	7.04		2.87	2.84		4	
13/1/2017	17:00	Rainy	Middle	4.0	19.50	19.50	19.45	8.35	8.36	8.36	30.61	30.61	30.62	89.8	89.0	89.0	6.89	6.83	6.83	5.63	5.63	5.63	8	7.50
	17:02		Middle	4.0	19.40	19.40		8.36	8.36		30.63	30.63		88.6	88.4		6.80	6.79		5.63	5.64		7	
16/1/2017	10:35	Cloudy	Middle	4.0	18.80	18.80	18.70	8.36	8.36	8.36	30.66	30.66	30.67	86.3	86.3	86.0	6.71	6.71	6.69	3.93	3.93	3.90	4	3.50
	10:37		Middle	4.0	18.60	18.60		8.36	8.36		30.67	30.67		86.1	85.3		6.70	6.64		3.93	3.82		3	
18/1/2017	11:20	Cloudy	Middle	4.0	19.60	19.60	19.60	8.32	8.32	8.32	30.73	30.73	30.73	90.1	90.3	90.2	6.88	6.90	6.89	8.00	7.98	7.96	5	5.00
	11:22		Middle	4.0	19.60	19.60		8.32	8.32		30.73	30.73		90.4	90.0		6.91	6.88		7.98	7.87		5	
20/1/2017	11:32	Fine	Middle	3.5	19.80	19.80	19.80	8.11	8.11	8.12	30.54	30.54	30.54	77.2	77.5	77.1	5.89	5.91	5.88	5.85	5.84	5.86	9	8.00
	11:34		Middle	3.5	19.80	19.80		8.12	8.12		30.54	30.54		76.8	76.9		5.85	5.86		5.86	5.88		7	
23/1/2017	13:45	Fine	Middle	3.5	19.30	19.30	19.25	8.13	8.13	8.15	30.96	30.96	30.96	85.9	86.2	85.8	6.60	6.63	6.60	4.23	4.24	4.26	3	2.50
	13:47		Middle	3.5	19.20	19.20		8.17	8.17		30.96	30.96		85.8	85.3		6.59	6.56		4.26	4.29		2	

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

Water Monitoring Result at RW21-P789E - GEC / CRB / SHK
Mid-Flood Tide

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
28/12/2016	17:10	Cloudy	Middle	3.5	19.80	19.80	19.70	8.35	8.35	8.36	30.54	30.54	30.56	86.5	87.6	87.9	6.60	6.68	6.71	6.15	6.16	6.16	6	5.00
	17:12		Middle	3.5	19.60	19.60		8.36	8.36		30.57	30.57		88.3	89.0		6.74	6.80		6.17	6.16		4	
30/12/2016	17:10	Fine	Middle	4.0	19.70	19.70	19.70	8.39	8.39	8.39	30.62	30.62	32.12	91.0	92.0	91.8	6.94	7.03	7.01	3.48	3.52	3.50	7	6.00
	17:12		Middle	4.0	19.70	19.70		8.39	8.39		30.63	36.62		92.1	91.9		7.03	7.02		3.51	3.50		5	
3/1/2017	11:25	Fine	Middle	3.5	20.40	20.40	20.40	8.33	8.33	8.33	30.56	30.56	30.56	88.0	87.9	87.8	6.63	6.63	6.62	5.88	5.68	5.63	8	8.00
	11:27		Middle	3.5	20.40	20.40		8.33	8.33		30.56	30.56		87.0	88.1		6.59	6.64		5.26	5.71		8	
5/1/2017	14:29	Cloudy	Middle	3.5	20.90	20.90	20.90	8.29	8.29	8.29	30.45	30.45	30.45	89.3	89.4	88.5	6.65	6.66	6.59	3.75	3.83	3.81	5	4.50
	14:31		Middle	3.5	20.90	20.90		8.29	8.29		30.44	30.44		87.7	87.4		6.54	6.51		3.83	3.83		4	
7/1/2017	13:05	Fine	Middle	4.0	21.10	21.10	21.15	8.29	8.29	8.29	30.45	30.45	30.45	89.0	89.6	89.3	6.62	6.66	6.64	3.63	3.64	3.63	6	5.00
	13:07		Middle	4.0	21.20	21.20		8.29	8.29		30.44	30.44		89.6	89.0		6.66	6.61		3.63	3.62		4	
9/1/2017	15:10	Fine	Middle	3.5	20.90	20.90	20.90	8.31	8.31	8.31	30.48	30.48	30.73	73.7	73.9	73.7	5.50	5.48	5.50	3.65	3.64	3.64	4	5.00
	15:12		Middle	3.5	20.90	20.90		8.31	8.31		31.47	30.47		73.5	73.7		5.49	5.51		3.63	3.63		6	
11/1/2017	16:30	Cloudy	Middle	3.5	20.10	20.10	20.10	8.36	8.36	8.36	30.71	30.71	30.71	91.6	91.8	91.7	6.94	6.95	6.95	3.94	3.95	3.95	6	5.00
	16:32		Middle	3.5	20.10	20.10		8.36	8.36		30.71	30.71		91.8	91.7		6.95	6.95		3.97	3.94		4	
13/1/2017	17:05	Rainy	Middle	4.0	19.50	19.50	19.45	8.36	8.36	8.36	30.61	30.61	30.61	87.3	87.6	87.5	6.70	6.72	6.72	4.44	4.40	4.42	7	6.50
	17:07		Middle	4.0	19.40	19.40		8.36	8.36		30.61	30.61		87.7	87.4		6.73	6.71		4.41	4.43		6	
16/1/2017	10:45	Cloudy	Middle	4.0	18.30	18.30	18.45	8.36	8.36	8.36	30.67	30.67	30.68	86.7	87.2	87.0	6.74	6.78	6.76	4.39	4.40	4.39	7	7.50
	10:47		Middle	4.0	18.60	18.60		8.36	8.36		30.68	30.68		86.7	87.3		6.74	6.79		4.39	4.39		8	
18/1/2017	11:30	Cloudy	Middle	3.5	19.40	19.40	19.40	8.33	8.33	8.33	30.75	30.75	30.75	86.7	87.1	86.9	6.65	6.68	6.66	6.42	6.44	6.39	6	6.50
	11:32		Middle	3.5	19.40	19.40		8.33	8.33		30.75	30.75		86.9	86.9		6.66	6.66		6.37	6.31		7	
20/1/2017	11:40	Fine	Middle	3.5	19.10	19.10	19.40	8.12	8.12	8.12	30.57	30.57	30.57	72.9	72.8	72.7	5.59	5.58	5.57	6.62	6.51	6.52	8	7.00
	11:42		Middle	3.5	19.70	19.70		8.12	8.12		30.57	30.57		72.1	73.0		5.51	5.60		6.48	6.46		6	
23/1/2017	13:55	Fine	Middle	3.5	19.30	19.30	19.30	8.13	8.13	8.15	30.99	30.99	30.99	82.2	82.2	82.5	6.31	6.31	6.33	5.34	5.35	5.36	6	5.50
	13:57		Middle	3.5	19.30	19.30		8.16	8.16		30.99	30.99		82.7	82.9		6.34	6.36		5.37	5.36		5	

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

Water Monitoring Result at RW21-P789 - GEC / CRB / SHK
Mid-Flood Tide

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
25/1/2017	15:15	Fine	Middle	3.5	19.50	19.50	19.60	8.15	8.15	8.17	31.10	31.10	31.10	88.2	90.0	89.3	6.74	6.86	6.81	3.35	3.32	3.32	4	4.50
	15:17		Middle	3.5	19.70	19.70		8.19	8.19		31.10	31.10		89.8	89.2		6.84	6.79		3.31	3.30		5	

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

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

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
28/12/2016	15:52	Cloudy	Middle	3.5	19.70	19.70	19.55	8.31	8.31	8.32	30.50	30.50	31.03	90.4	91.9	91.6	6.92	7.04	7.02	6.92	6.94	6.97	6	6.00
	15:54		Middle	3.5	19.40	19.40		8.32	8.32		32.55	30.55		92.0	91.9		7.06	7.05		6.99	7.02		6	
30/12/2016	15:35	Fine	Middle	3.5	20.10	20.10	20.15	8.36	8.36	8.37	30.75	30.75	30.76	92.2	92.0	92.2	6.97	6.95	6.97	5.38	5.37	5.34	6	6.50
	15:37		Middle	3.5	20.20	20.20		8.37	8.37		30.77	30.77		92.5	92.1		6.99	6.96		5.31	5.28		7	
3/1/2017	10:07	Fine	Middle	3.5	20.60	20.60	20.70	8.29	8.29	8.31	30.60	30.60	30.60	87.9	88.1	86.3	6.59	6.60	6.46	4.20	4.33	4.31	6	6.50
	10:09		Middle	3.5	20.80	20.80		8.32	8.32		30.59	30.59		82.6	86.7		6.18	6.48		4.35	4.34		7	
5/1/2017	10:19	Cloudy	Middle	3.5	21.00	21.00	21.10	8.26	8.26	8.27	30.44	30.44	30.43	85.2	84.9	85.0	6.35	6.32	6.32	5.69	5.54	5.57	6	6.00
	10:21		Middle	3.5	21.20	21.20		8.28	8.28		30.41	30.41		85.1	84.6		6.33	6.29		5.59	5.47		6	
7/1/2017	10:00	Fine	Middle	3.5	21.20	21.20	21.25	8.25	8.25	8.26	30.53	30.53	30.53	91.4	90.9	90.7	6.78	6.74	6.73	3.21	3.19	3.19	4	4.50
	10:02		Middle	3.5	21.30	21.30		8.26	8.26		30.53	30.53		90.7	89.7		6.73	6.65		3.19	3.18		5	
9/1/2017	13:35	Fine	Middle	3.5	21.70	21.70	21.75	8.23	8.23	8.23	30.46	30.46	30.46	84.7	85.3	85.4	6.24	6.27	6.29	3.19	3.21	3.20	3	3.50
	13:37		Middle	3.5	21.80	21.80		8.23	8.23		30.45	30.45		85.9	85.8		6.32	6.31		3.20	3.18		4	
11/1/2017	15:05	Cloudy	Middle	3.5	20.70	20.70	20.53	8.28	8.28	8.29	30.69	30.69	30.69	92.4	92.7	92.3	6.92	6.94	6.92	4.64	4.64	4.62	5	5.50
	15:07		Middle	3.5	20.70	20.00		8.29	8.29		30.69	30.69		92.4	91.6		6.92	6.89		4.61	4.59		6	
13/1/2017	15:45	Rainy	Middle	3.5	19.60	19.60	19.55	8.32	8.32	8.33	30.59	30.59	30.60	88.8	89.4	89.2	6.80	6.85	6.83	8.89	8.89	<u>8.89</u>	9	9.00
	15:47		Middle	3.5	19.50	19.50		8.34	8.34		30.60	30.60		89.3	89.3		6.84	6.84		8.89	8.90		9	
16/1/2017	8:00	Cloudy	Middle	3.5	18.90	18.90	18.85	8.26	8.26	8.28	30.45	30.45	30.46	83.0	83.2	82.7	6.45	6.46	6.42	6.91	6.92	6.92	7	7.50
	8:02		Middle	3.5	18.80	18.80		8.29	8.29		30.47	30.47		82.9	81.6		6.44	6.34		6.93	6.93		8	
18/1/2017	10:05	Cloudy	Middle	3.5	19.90	19.90	19.95	8.14	8.14	8.12	30.40	30.40	30.41	83.9	84.1	83.7	6.38	6.39	6.36	4.93	4.89	4.89	5	4.50
	10:07		Middle	3.5	20.00	20.00		8.10	8.10		30.41	30.41		83.5	83.1		6.35	6.31		4.88	4.87		4	
20/1/2017	9:30	Fine	Middle	3.5	18.90	18.90	18.90	7.91	7.91	7.93	30.49	30.49	30.49	83.2	83.4	82.9	6.37	6.38	6.34	6.25	6.28	6.27	6	6.50
	9:32		Middle	3.5	18.90	18.90		7.95	7.95		30.48	30.48		82.9	82.1		6.34	6.28		6.27	6.26		7	
23/1/2017	15:05	Fine	Middle	3.5	19.30	19.30	19.35	8.00	8.00	8.04	30.90	30.90	30.91	86.0	85.5	85.3	6.60	6.55	6.55	5.30	5.28	5.28	4	4.00
	15:07		Middle	3.5	19.40	19.40		8.07	8.07		30.92	30.92		85.6	84.0		6.56	6.49		5.27	5.27		4	
25/1/2017	14:00	Fine	Middle	3.5	20.30	20.30	20.40	7.90	7.90	7.93	31.13	31.13	31.13	88.3	88.1	88.0	6.63	6.61	6.60	4.72	4.67	4.73	11	11.50
	14:02		Middle	3.5	20.50	20.50		7.96	7.96		31.13	31.13		88.1	87.6		6.61	6.56		4.73	4.79		12	

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

Water Monitoring Result at C7 - Windsor House
Mid-Ebb Tide

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
29/12/2016	23;23	Cloudy	Middle	-	17.60	17.60	17.60	7.94	7.94	7.96	30.22	30.21	30.21	82.2	82.9	82.2	6.54	6.60	6.55	4.18	4.20	4.19	11	8.50
	23:24		Middle	-	17.60	17.60		7.97	7.97		30.21	30.21		82.1	81.7		6.54	6.51		4.22	4.16		6	
31/12/2016	0:25	Cloudy	Middle	-	18.20	18.20	18.20	7.96	7.96	7.98	30.29	30.29	30.29	80.0	82.3	81.2	6.29	6.47	6.38	3.64	3.66	3.63	4	3.00
	0:26		Middle	-	18.20	18.20		8.00	7.99		30.29	30.29		81.8	80.5		6.43	6.33		3.62	3.60		2	
3/1/2017	-	-	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	
5/1/2017	2:00	Cloudy	Middle	-	20.40	20.40	20.40	7.77	7.77	7.81	30.19	30.19	30.19	78.2	79.0	79.3	5.90	5.96	5.98	3.52	3.61	3.74	7	6.50
	2:01		Middle	-	20.40	20.40		7.85	7.85		30.19	30.20		80.4	79.4		6.07	6.00		3.91	3.93		6	
7/1/2017	4:40	Cloudy	Middle	-	20.50	20.60	20.58	7.98	7.98	7.98	30.24	30.24	30.25	75.5	77.5	77.6	5.67	5.83	5.84	2.59	2.61	2.61	18	13.50
	4:41		Middle	-	20.60	20.60		7.98	7.98		30.26	30.26		79.3	78.0		5.96	5.90		2.58	2.66		9	
9/1/2017	22:40	Cloudy	Middle	-	20.10	20.10	20.15	7.86	7.86	7.88	30.31	30.31	30.31	80.2	80.6	80.4	6.08	6.11	6.10	2.87	2.85	2.84	14	<u>16.00</u>
	22:41		Middle	-	20.20	20.20		7.90	7.90		30.31	30.31		80.4	80.3		6.10	6.09		2.83	2.80		18	
11/1/2017	23:00	Cloudy	Middle	-	20.20	20.20	20.25	7.95	7.95	7.97	30.44	30.44	30.45	80.7	80.8	81.1	6.10	6.10	6.13	4.62	4.59	4.58	5	5.50
	23:01		Middle	-	20.30	20.30		7.98	7.98		30.46	30.46		81.5	81.4		6.15	6.15		4.56	4.54		6	
14/1/2017	2:45	Cloudy	Middle	-	19.10	19.10	19.05	7.95	7.95	7.96	30.37	30.37	30.37	79.8	79.9	79.7	6.18	6.18	6.17	2.86	2.88	2.84	3	3.00
	2:46		Middle	-	19.00	19.00		7.97	7.97		30.37	30.37		79.3	79.7		6.14	6.16		2.80	2.83		3	
16/1/2017	2:05	Cloudy	Middle	-	17.50	17.50	17.50	7.95	7.95	7.95	30.41	30.41	30.42	77.8	78.6	78.7	6.20	6.26	6.27	3.42	3.40	3.46	5	5.00
	2:06		Middle	-	17.50	17.50		7.95	7.95		30.41	30.43		79.1	79.2		6.31	6.31		3.52	3.49		5	
18/1/2017	2:05	Cloudy	Middle	-	19.00	19.00	19.00	7.94	7.94	7.96	30.39	30.39	30.40	79.6	79.6	80.4	6.18	6.16	6.23	6.62	6.60	6.63	10	8.00
	2:06		Middle	-	19.00	19.00		7.98	7.98		30.41	30.39		81.3	81.2		6.29	6.29		6.71	6.58		6	
20/1/2017	3:01	Cloudy	Middle	-	19.00	19.00	19.05	7.95	7.95	7.96	30.45	30.45	30.46	80.8	81.5	81.1	6.24	6.30	6.26	3.52	3.60	3.57	4	4.50
	3:02		Middle	-	19.10	19.10		7.96	7.96		30.46	30.46		81.2	80.7		6.27	6.23		3.62	3.54		5	
23/1/2017	23:23	Cloudy	Middle	-	18.60	18.60	18.48	8.37	8.37	8.37	31.01	31.01	31.01	91.6	91.8	91.4	7.25	7.27	7.24	4.67	4.74	4.68	11	7.50
	23:24		Middle	-	18.00	18.70		8.37	8.37		31.01	31.01		91.4	90.7		7.24	7.18		4.68	4.62		4	
25/1/2017	22:35	Fine	Middle	-	18.40	18.40	18.40	8.02	8.02	8.02	30.87	30.87	30.87	77.3	78.9	78.0	6.03	6.16	6.08	3.41	3.38	3.33	3	3.50
	22:36		Middle	-	18.40	18.40		8.02	8.02		30.87	30.87		78.0	77.7		6.08	6.06		3.24	3.27		4	

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

Water Monitoring Result at C1 - HKCEC
Mid-Ebb Tide

Date	Time	Weater Condition	Sampling Depth (m)		Water Temperature (°C)			pH (-)			Salinity (ppt)			DO Saturation (%)			DO (mg/L)			Turbidity (NTU)			Suspended Solids (mg/L)	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
29/12/2016	2:31	Cloudy	Middle	2.5	18.10	18.10	18.05	8.04	8.04	8.06	30.40	30.40	30.42	80.1	80.5	80.3	6.31	6.35	6.33	4.91	4.96	4.97	7	6.00
	2:32		Middle	2.5	18.00	18.00		8.08	8.08		30.44	30.44		80.0	80.6		6.31	6.35		4.99	5.01		5	
31/12/2016	4:30	Cloudy	Middle	2.5	18.50	18.50	18.50	8.14	8.14	8.15	30.52	30.52	30.52	80.1	82.1	81.3	6.26	6.41	6.35	5.04	4.86	4.82	8	8.00
	4:31		Middle	2.5	18.50	18.50		8.16	8.16		30.52	30.52		81.5	81.6		6.37	6.37		4.75	4.63		<2	
3/1/2017	5:29	Fine	Middle	2.5	18.90	18.90	18.90	7.71	7.71	7.70	30.16	30.16	30.18	78.4	79.1	79.0	5.90	6.04	6.01	3.60	3.64	3.64	6	7.50
	5:30		Middle	2.5	18.90	18.90		7.69	7.69		30.20	30.20		79.3	79.2		6.05	6.04		3.65	3.67		9	
5/1/2017	5:03	Cloudy	Middle	3.0	20.30	20.30	20.35	7.90	7.90	7.92	30.36	30.36	30.36	78.4	77.6	77.9	5.92	5.85	5.88	3.02	2.97	3.01	5	4.50
	5:04		Middle	3.0	20.40	20.40		7.93	7.93		30.36	30.36		78.2	77.5		5.90	5.85		2.96	3.10		4	
7/1/2017	5:55	Cloudy	Middle	3.0	20.40	20.40	20.45	7.99	7.99	8.00	30.11	30.11	30.11	77.6	76.7	76.3	5.85	5.77	5.75	1.97	1.99	1.99	12	9.50
	5:56		Middle	3.0	20.50	20.50		8.00	8.00		30.11	30.11		76.0	75.0		5.72	5.64		1.96	2.03		7	
9/1/2017	21:57	Cloudy	Middle	3.0	20.10	20.10	20.10	8.13	8.13	8.13	30.57	30.57	30.57	81.9	82.3	81.7	6.20	6.25	6.19	2.66	2.71	2.61	6	9.00
	21:58		Middle	3.0	20.10	20.10		8.13	8.13		30.57	30.57		81.5	81.0		6.17	6.14		2.54	2.53		12	
11/1/2017	2:50	Cloudy	Middle	2.5	19.50	19.60	19.63	7.88	7.88	7.90	30.15	30.15	30.17	74.3	74.9	75.9	5.68	5.73	5.81	5.39	5.44	5.40	7	7.00
	2:51		Middle	2.5	19.70	19.70		7.92	7.92		30.18	30.18		77.4	77.1		5.92	5.90		5.41	5.37		7	
14/1/2017	2:04	Cloudy	Middle	2.5	18.90	18.90	18.90	8.14	8.14	8.15	30.64	30.64	30.64	77.2	76.7	77.5	5.98	5.95	6.01	4.17	4.15	4.16	7	6.00
	2:05		Middle	2.5	18.90	18.90		8.15	8.15		30.64	30.64		77.4	78.6		6.00	6.10		4.20	4.13		5	
16/1/2017	5:30	Cloudy	Middle	2.5	18.20	18.20	18.15	8.04	8.04	8.05	30.41	30.41	30.42	72.0	71.2	71.5	5.66	5.61	5.63	3.95	3.87	3.87	5	5.00
	5:31		Middle	2.5	18.10	18.10		8.05	8.05		30.43	30.43		71.6	71.1		5.64	5.60		3.81	3.86		5	
18/1/2017	4:58	Cloudy	Middle	3.0	18.80	18.80	18.80	8.13	8.13	8.13	30.65	30.65	30.65	79.3	79.8	79.9	6.15	6.19	6.20	3.44	3.52	3.45	6	5.50
	4:59		Middle	3.0	18.80	18.80		8.13	8.13		30.65	30.65		80.5	80.0		6.25	6.21		3.45	3.40		5	
20/1/2017	5:55	Cloudy	Middle	3.0	18.60	18.60	18.65	8.04	8.04	8.05	30.54	30.54	30.54	81.3	81.4	81.2	6.32	6.33	6.31	2.69	2.55	2.72	7	6.00
	5:56		Middle	3.0	18.70	18.70		8.05	8.05		30.54	30.54		81.6	80.3		6.36	6.24		2.80	2.82		5	
23/1/2017	22:37	Cloudy	Middle	3.0	18.40	18.40	18.40	8.40	8.40	8.40	31.21	31.21	31.21	93.0	93.3	93.1	7.25	7.26	7.25	3.32	3.36	3.33	9	8.00
	22:38		Middle	3.0	18.40	18.40		8.40	8.40		31.21	31.21		93.2	92.9		7.26	7.23		3.30	3.34		7	
25/1/2017	2:11	Fine	Middle	2.5	18.20	18.20	18.20	8.10	8.10	8.10	30.02	30.02	30.02	78.7	79.3	78.5	6.19	6.24	6.18	3.15	3.10	3.03	6	4.00
	2:12		Middle	2.5	18.20	18.20		8.10	8.10		30.02	30.02		78.0	77.9		6.14	6.13		2.92	2.94		2	

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

Water Monitoring Result at P1 - HKCEC Phase I
Mid-Ebb Tide

Date	Time	Weater Condition	Sampling Depth (m)		Water Temperature (°C)			pH (-)			Salinity (ppt)			DO Saturation (%)			DO (mg/L)			Turbidity (NTU)			Suspended Solids (mg/L)	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
29/12/2016	1:53	Cloudy	Middle	2.5	17.40	17.40	17.40	8.19	8.19	8.20	30.44	30.44	30.45	83.1	83.6	83.3	6.63	6.67	6.65	5.45	5.47	5.48	7	5.50
	1:54		Middle	2.5	17.40	17.40		8.20	8.20		30.46	30.44		83.6	82.9		6.67	6.62		5.49	5.51		4	
31/12/2016	4:04	Cloudy	Middle	2.5	18.10	18.10	18.10	8.19	8.19	8.20	30.49	30.49	30.49	86.7	86.5	86.3	6.82	6.82	6.79	3.95	3.99	3.98	4	4.00
	4:05		Middle	2.5	18.10	18.10		8.20	8.20		30.50	30.49		85.5	86.4		6.73	6.80		4.06	3.93		4	
3/1/2017	4:45	Fine	Middle	2.5	19.60	19.60	19.60	7.76	7.76	7.76	30.37	30.37	30.37	82.4	83.1	82.8	6.30	6.36	6.33	3.83	3.89	3.82	4	5.00
	4:46		Middle	2.5	19.60	19.60		7.76	7.76		30.37	30.37		82.3	83.2		6.30	6.37		3.80	3.77		6	
5/1/2017	4:40	Cloudy	Middle	3.0	20.20	20.20	20.25	8.03	8.03	8.04	30.56	30.45	30.47	78.4	79.4	79.0	5.92	6.00	5.97	2.82	2.80	2.79	5	6.00
	4:41		Middle	3.0	20.30	20.30		8.04	8.04		30.44	30.43		78.9	79.3		5.96	6.00		2.78	2.76		7	
7/1/2017	5:35	Cloudy	Middle	3.0	20.20	20.20	20.25	8.06	8.06	8.06	30.35	30.35	30.35	78.5	79.0	78.7	5.93	5.97	5.94	2.32	2.51	2.37	4	5.50
	5:36		Middle	3.0	20.30	20.30		8.06	8.06		30.35	30.35		79.1	78.1		5.97	5.89		2.35	2.30		7	
9/1/2017	21:37	Cloudy	Middle	3.0	20.30	20.30	20.30	7.96	7.96	7.97	30.56	30.57	30.56	83.1	83.3	83.0	6.28	6.29	6.27	2.68	2.39	2.52	6	10.00
	21:38		Middle	3.0	20.30	20.30		7.98	7.98		30.56	30.56		83.0	82.7		6.27	6.24		2.60	2.41		14	
11/1/2017	2:10	Cloudy	Middle	2.5	19.40	19.40	19.45	8.14	8.14	8.14	30.44	30.44	30.44	74.7	75.5	76.0	5.72	5.78	5.82	4.17	4.11	4.19	7	6.50
	2:11		Middle	2.5	19.50	19.50		8.14	8.14		30.44	30.44		77.0	76.9		5.90	5.89		4.25	4.21		6	
14/1/2017	1:30	Cloudy	Middle	2.5	18.40	18.40	18.40	8.04	8.04	8.05	30.53	30.53	30.53	75.7	74.3	73.8	5.92	5.82	5.77	4.22	4.20	4.18	8	7.50
	1:31		Middle	2.5	18.40	18.40		8.05	8.05		30.53	30.53		73.2	71.9		5.70	5.63		4.18	4.13		7	
16/1/2017	5:02	Cloudy	Middle	2.5	17.60	17.60	17.55	8.08	8.08	8.09	30.44	30.44	30.44	77.4	78.9	78.5	6.16	6.28	6.27	3.97	3.81	3.84	8	7.00
	5:03		Middle	2.5	17.50	17.50		8.09	8.09		30.43	30.43		79.2	78.3		6.30	6.34		3.79	3.78		6	
18/1/2017	4:25	Cloudy	Middle	3.0	18.70	18.80	18.78	8.05	8.05	8.06	30.68	30.68	30.68	78.0	78.8	78.7	6.05	6.12	6.11	4.03	4.05	4.04	5	5.50
	4:26		Middle	3.0	18.80	18.80		8.06	8.06		30.68	30.68		79.1	78.7		6.14	6.12		4.07	4.00		6	
20/1/2017	5:25	Cloudy	Middle	3.0	18.50	18.50	18.55	7.90	7.90	7.91	30.36	30.36	30.36	84.3	84.4	83.9	6.58	6.59	6.55	4.18	4.23	4.22	6	6.00
	5:26		Middle	3.0	18.60	18.60		7.92	7.92		30.36	30.36		83.3	83.5		6.50	6.52		4.25	4.21		6	
23/1/2017	22:02	Cloudy	Middle	3.0	18.00	18.00	18.05	8.38	8.38	8.39	30.98	30.98	30.98	93.6	93.8	93.2	7.34	7.36	7.31	3.62	3.55	3.55	8	5.50
	22:03		Middle	3.0	18.10	18.10		8.39	8.39		30.98	30.98		93.0	92.3		7.29	7.24		3.51	3.52		3	
25/1/2017	1:30	Fine	Middle	2.5	18.00	18.00	18.05	8.12	8.12	8.13	30.93	30.93	30.94	77.2	76.8	76.5	6.06	6.04	6.01	2.32	2.61	2.40	2	2.50
	1:31		Middle	2.5	18.10	18.10		8.13	8.13		30.94	30.94		76.1	76.0		5.97	5.97		2.28	2.40		3	

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

Water Monitoring Result at P3 - APA
Mid-Ebb Tide

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
29/12/2016	2:05	Cloudy	Middle	2.5	17.50	17.50	17.50	8.21	8.21	8.22	30.48	30.48	30.49	81.7	83.0	82.8	6.50	6.65	6.61	4.60	4.58	4.58	2	4.50
	2:06		Middle	2.5	17.50	17.50		8.22	8.22		30.49	30.49		83.4	83.2		6.65	6.63		4.57	4.58		7	
31/12/2016	4:10	Cloudy	Middle	2.5	18.10	18.10	18.10	8.22	8.22	8.22	30.52	30.52	30.52	85.4	85.2	85.0	6.72	6.70	6.69	3.35	3.51	3.49	6	5.00
	4:11		Middle	2.5	18.10	18.10		8.22	8.22		30.52	30.52		84.8	84.7		6.67	6.66		3.53	3.57		4	
3/1/2017	4:52	Fine	Middle	2.5	19.70	19.70	19.70	7.65	7.65	7.65	30.37	30.37	30.38	83.2	83.4	82.9	6.36	6.37	6.33	4.16	4.24	4.22	5	5.50
	4:53		Middle	2.5	19.70	19.70		7.65	7.65		30.38	30.38		82.7	82.2		6.32	6.28		4.27	4.20		6	
5/1/2017	4:45	Cloudy	Middle	3.0	20.30	20.30	20.35	8.06	8.06	8.07	30.44	30.44	30.44	81.2	82.6	81.8	6.13	6.23	6.17	3.69	3.64	3.61	7	5.50
	4:46		Middle	3.0	20.40	20.40		8.07	8.07		30.44	30.45		82.2	81.0		6.20	6.11		3.60	3.52		4	
7/1/2017	5:40	Cloudy	Middle	3.0	20.30	20.30	20.35	8.02	8.02	8.03	30.32	30.32	30.33	79.6	79.5	79.2	6.00	6.00	5.97	2.20	2.11	2.16	6	5.00
	5:41		Middle	3.0	20.40	20.40		8.04	8.04		30.33	30.33		78.8	78.7		5.94	5.94		2.16	2.18		4	
9/1/2017	21:42	Cloudy	Middle	3.0	20.20	20.20	20.20	8.11	8.11	8.11	30.54	30.54	30.54	83.4	83.7	83.1	6.31	6.33	6.28	3.05	3.00	2.98	7	7.00
	21:43		Middle	3.0	20.20	20.20		8.11	8.11		30.54	30.54		82.7	82.4		6.25	6.23		2.96	2.89		7	
11/1/2017	2:19	Cloudy	Middle	2.5	19.40	19.40	19.45	8.12	8.12	8.12	30.43	30.43	30.43	82.9	83.7	82.8	6.26	6.42	6.31	4.22	4.17	4.17	6	7.50
	2:20		Middle	2.5	19.50	19.50		8.12	8.12		30.43	30.43		82.0	82.5		6.25	6.31		4.16	4.14		9	
14/1/2017	1:36	Cloudy	Middle	2.5	18.70	18.70	18.65	8.10	8.10	8.10	30.63	30.63	30.63	80.0	80.3	80.0	6.23	6.26	6.23	4.06	4.08	4.07	6	6.50
	1:37		Middle	2.5	18.60	18.60		8.10	8.10		30.63	30.63		80.0	79.7		6.23	6.21		4.10	4.04		7	
16/1/2017	5:11	Cloudy	Middle	2.5	17.70	17.70	17.70	8.11	8.11	8.12	30.41	30.41	30.42	82.4	82.9	82.3	6.55	6.58	6.54	4.06	3.99	4.00	6	5.50
	5:12		Middle	2.5	17.70	17.70		8.12	8.12		30.43	30.43		82.2	81.6		6.53	6.49		3.96	3.97		5	
18/1/2017	4:33	Cloudy	Middle	3.0	18.70	18.70	18.75	7.93	7.93	7.95	30.50	30.50	30.50	77.7	78.7	78.6	6.04	6.11	6.10	4.88	4.85	4.78	5	6.00
	4:34		Middle	3.0	18.80	18.80		7.96	7.96		30.50	30.50		79.9	78.0		6.20	6.06		4.67	4.70		7	
20/1/2017	5:31	Cloudy	Middle	3.0	18.30	18.30	18.35	8.09	8.09	8.09	30.54	30.54	30.54	83.0	83.1	82.0	6.49	6.50	6.41	2.98	3.04	3.04	3	3.00
	5:32		Middle	3.0	18.40	18.40		8.08	8.08		30.54	30.54		81.1	80.7		6.34	6.30		3.07	3.08		3	
23/1/2017	22:10	Cloudy	Middle	3.0	18.10	18.10	18.15	8.41	8.41	8.41	31.25	31.25	31.24	95.1	94.9	94.4	7.44	7.42	7.38	4.90	4.63	4.66	23	<u>21.00</u>
	22:11		Middle	3.0	18.20	18.20		8.41	8.41		31.23	31.23		94.1	93.4		7.36	7.30		4.55	4.56		19	
25/1/2017	1:37	Fine	Middle	2.5	18.00	17.90	17.93	8.16	8.16	8.16	30.97	30.97	30.97	84.2	84.1	83.4	6.63	6.62	6.57	3.90	3.67	3.76	3	3.00
	1:38		Middle	2.5	17.90	17.90		8.16	8.16		30.97	30.97		83.2	82.1		6.55	6.46		3.72	3.75		3	

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

Water Monitoring Result at P4 - SOC
Mid-Ebb Tide

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
29/12/2016	2:13	Cloudy	Middle	2.5	17.60	17.60	17.60	8.12	8.12	8.13	30.18	30.18	30.18	80.7	82.4	81.3	6.41	6.55	6.46	4.55	4.58	4.47	11	8.00
	2:14		Middle	2.5	17.60	17.60		8.13	8.13		30.18	30.18		81.6	80.5		6.49	6.40		4.39	4.37		5	
31/12/2016	4:17	Cloudy	Middle	2.5	18.30	18.30	18.30	8.24	8.24	8.24	30.49	30.49	30.49	82.7	83.1	82.7	6.49	6.51	6.48	3.38	3.59	3.57	7	6.50
	4:18		Middle	2.5	18.30	18.30		8.23	8.23		30.49	30.50		82.6	82.2		6.48	6.45		3.64	3.66		6	
3/1/2017	4:58	Fine	Middle	2.5	19.40	19.40	19.60	7.21	7.21	7.26	30.40	30.40	30.40	81.0	81.1	80.8	6.19	6.19	6.17	3.97	4.04	4.02	5	8.00
	4:59		Middle	2.5	19.80	19.80		7.30	7.30		30.40	30.40		80.5	80.6		6.14	6.15		4.07	4.01		11	
5/1/2017	4:52	Cloudy	Middle	3.0	20.60	20.60	20.60	8.08	8.08	8.08	30.30	30.30	30.31	79.4	80.6	79.6	5.96	6.60	6.12	3.20	3.22	3.30	4	3.50
	4:53		Middle	3.0	20.60	20.60		8.08	8.08		30.31	30.31		79.1	79.4		5.95	5.97		3.27	3.51		3	
7/1/2017	5:46	Cloudy	Middle	3.0	20.20	20.20	20.25	8.07	8.07	8.07	30.35	30.35	30.35	79.0	79.7	78.9	5.97	6.02	5.96	1.90	1.95	1.83	5	5.00
	5:47		Middle	3.0	20.30	20.30		8.07	8.07		30.35	30.35		79.3	77.4		5.99	5.85		1.71	1.75		5	
9/1/2017	21:47	Cloudy	Middle	3.0	20.10	20.10	20.10	8.04	8.04	8.05	30.55	30.55	30.55	83.7	83.8	83.6	6.34	6.35	6.33	2.60	2.58	2.53	11	9.50
	21:48		Middle	3.0	20.10	20.10		8.05	8.05		30.55	30.55		84.0	83.0		6.36	6.27		2.55	2.40		8	
11/1/2017	2:27	Cloudy	Middle	2.5	19.40	19.40	19.50	8.03	8.03	8.04	30.43	30.43	30.43	74.9	74.8	75.3	5.73	5.72	5.76	4.37	4.35	4.31	7	7.50
	2:28		Middle	2.5	19.60	19.60		8.05	8.05		30.43	30.43		75.7	75.8		5.79	5.80		4.27	4.26		8	
14/1/2017	1:42	Cloudy	Middle	2.5	18.80	18.80	18.80	8.15	8.15	8.15	30.63	30.63	30.63	78.9	79.7	79.5	6.12	6.19	6.15	4.47	4.22	4.30	7	6.00
	1:43		Middle	2.5	18.80	18.80		8.15	8.15		30.63	30.63		80.1	79.1		6.22	6.06		4.24	4.26		5	
16/1/2017	5:19	Cloudy	Middle	2.5	17.70	17.70	17.70	8.13	8.13	8.13	30.42	30.42	30.42	79.0	79.7	79.1	6.28	6.33	6.29	3.94	3.92	3.90	5	5.00
	5:20		Middle	2.5	17.70	17.70		8.13	8.13		30.42	30.42		79.1	78.7		6.28	6.25		3.84	3.90		5	
18/1/2017	4:47	Cloudy	Middle	3.0	18.70	18.70	18.75	8.10	8.10	8.11	30.68	30.68	30.69	75.0	76.8	76.7	5.82	5.96	5.95	4.53	4.41	4.38	5	5.00
	4:48		Middle	3.0	18.80	18.80		8.11	8.11		30.69	30.69		77.6	77.3		6.02	6.00		4.27	4.31		5	
20/1/2017	5:40	Cloudy	Middle	3.0	18.70	18.70	18.70	8.06	8.06	8.06	30.50	30.50	30.50	77.8	76.9	77.4	6.05	5.98	6.02	2.43	2.41	2.39	3	3.50
	5:41		Middle	3.0	18.70	18.70		8.06	8.06		30.50	30.50		77.1	77.7		6.00	6.04		2.40	2.31		4	
23/1/2017	22:18	Cloudy	Middle	3.0	18.10	18.10	18.15	8.40	8.40	8.40	31.19	31.16	31.19	94.8	95.1	94.9	7.42	7.44	7.42	4.59	4.50	4.51	18	<u>20.50</u>
	22:19		Middle	3.0	18.20	18.20		8.40	8.40		31.20	31.19		94.8	94.9		7.41	7.42		4.57	4.37		23	
25/1/2017	1:46	Fine	Middle	2.5	18.00	18.00	18.00	8.18	8.18	8.18	30.90	30.90	30.90	82.2	81.6	81.7	6.42	6.42	6.41	2.77	2.81	2.75	5	4.00
	1:47		Middle	2.5	18.00	18.00		8.18	8.18		30.90	30.90		81.7	81.1		6.42	6.38		2.73	2.69		3	

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

Water Monitoring Result at P5 - WCT / RT / IT
Mid-Ebb Tide

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
29/12/2016	2:22	Cloudy	Middle	2.5	17.90	17.90	17.90	8.16	8.16	8.17	30.16	30.16	30.32	80.6	81.7	81.1	6.37	6.46	6.43	4.32	4.27	4.31	6	6.50
	2:23		Middle	2.5	17.90	17.90		8.17	8.17		30.48	30.48		81.1	80.9		6.45	6.44		4.30	4.36		7	
31/12/2016	4:25	Cloudy	Middle	2.5	18.50	18.50	18.50	8.07	8.07	8.08	30.46	30.46	30.47	81.6	80.5	80.9	6.37	6.29	6.31	3.77	3.75	3.70	5	5.00
	4:26		Middle	2.5	18.50	18.50		8.09	8.09		30.47	30.47		81.1	80.3		6.30	6.28		3.60	3.67		<2	
3/1/2017	5:17	Fine	Middle	2.5	19.80	19.80	19.80	7.68	7.68	7.69	30.43	30.43	30.43	78.4	79.8	79.3	5.98	6.09	6.05	3.36	3.51	3.34	6	5.50
	5:18		Middle	2.5	19.80	19.80		7.69	7.69		30.43	30.43		79.0	79.9		6.03	6.10		3.25	3.23		5	
5/1/2017	4:58	Cloudy	Middle	3.0	20.40	20.40	20.45	7.99	7.99	8.00	30.37	30.37	30.37	80.5	80.4	80.3	6.06	6.06	6.05	3.79	3.90	3.79	5	4.50
	4:59		Middle	3.0	20.50	20.50		8.00	8.00		30.37	30.37		80.0	80.3		6.01	6.05		3.77	3.69		4	
7/1/2017	5:51	Cloudy	Middle	3.0	20.30	20.30	20.35	8.02	8.02	8.02	29.87	29.87	29.87	78.1	77.7	76.8	5.91	5.88	5.80	1.96	1.98	2.03	4	6.50
	5:52		Middle	3.0	20.40	20.40		8.02	8.02		29.87	29.87		76.4	75.0		5.78	5.64		2.10	2.06		9	
9/1/2017	21:52	Cloudy	Middle	3.0	20.20	20.20	20.20	8.08	8.08	8.09	30.58	30.58	30.58	82.0	82.6	82.5	6.20	6.25	6.24	3.93	3.84	3.87	6	10.50
	21:53		Middle	3.0	20.20	20.20		8.09	8.09		30.58	30.58		82.8	82.4		6.26	6.23		3.92	3.78		15	
11/1/2017	2:41	Cloudy	Middle	2.5	19.60	19.60	19.60	8.09	8.09	8.09	30.45	30.45	30.46	77.1	76.1	76.7	5.89	5.81	5.86	4.42	4.37	4.35	7	7.50
	2:42		Middle	2.5	19.60	19.60		8.09	8.09		30.46	30.46		77.1	76.5		5.89	5.85		4.35	4.26		8	
14/1/2017	1:51	Cloudy	Middle	2.5	18.70	18.70	18.70	8.12	8.12	8.13	30.61	30.61	30.62	76.0	77.0	76.5	5.91	5.99	5.96	4.58	4.64	4.71	6	5.00
	1:52		Middle	2.5	18.70	18.70		8.13	8.13		30.62	30.62		76.6	76.5		5.97	5.96		4.81	4.79		4	
16/1/2017	5:24	Cloudy	Middle	2.5	17.80	17.80	17.75	8.14	8.14	8.14	30.42	30.42	30.43	75.8	77.0	76.9	6.01	6.10	6.10	4.46	4.45	4.45	7	6.00
	5:25		Middle	2.5	17.70	17.70		8.13	8.13		30.43	30.43		77.3	77.5		6.13	6.15		4.48	4.42		5	
18/1/2017	4:52	Cloudy	Middle	3.0	18.80	18.80	18.80	8.15	8.15	8.15	30.62	30.62	30.63	77.6	78.8	78.5	6.02	6.11	6.09	3.80	3.75	3.74	6	6.00
	4:53		Middle	3.0	18.80	18.80		8.15	8.15		30.63	30.63		79.2	78.5		6.14	6.07		3.72	3.70		6	
20/1/2017	5:47	Cloudy	Middle	3.0	18.70	18.70	18.75	8.00	8.00	8.01	30.55	30.55	30.55	80.1	80.2	80.1	6.23	6.23	6.23	3.02	3.00	2.99	6	5.50
	5:48		Middle	3.0	18.80	18.80		8.01	8.01		30.55	30.55		80.2	80.0		6.23	6.21		2.97	2.98		5	
23/1/2017	22:26	Cloudy	Middle	3.0	18.30	18.30	18.30	8.40	8.40	8.40	31.23	31.23	31.23	95.0	95.3	95.0	7.41	7.43	7.41	3.73	3.23	3.30	24	<u>21.00</u>
	22:27		Middle	3.0	18.30	18.30		8.40	8.40		31.23	31.23		94.9	94.8		7.40	7.40		3.13	3.11		18	
25/1/2017	1:55	Fine	Middle	2.5	18.20	18.20	18.20	8.20	8.20	8.20	30.27	30.27	30.27	71.0	72.1	72.2	5.58	5.67	5.68	3.05	2.95	2.93	3	4.00
	1:56		Middle	2.5	18.20	18.20		8.20	8.19		30.27	30.27		73.3	72.5		5.76	5.70		2.82	2.90		5	

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

Water Monitoring Result at RW21-P789W - GEC / CRB / SHK
Mid-Ebb Tide

Date	Time	Weater Condition	Sampling Depth (m)		Water Temperature (°C)			pH (-)			Salinity (ppt)			DO Saturation (%)			DO (mg/L)			Turbidity (NTU)			Suspended Solids (mg/L)	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
29/12/2016	1:10	Cloudy	Middle	3.5	17.60	17.60	17.60	7.91	7.91	7.92	30.30	30.30	30.30	82.7	83.4	82.8	6.58	6.54	6.54	3.45	3.96	3.82	8	7.50
	1:11		Middle	3.5	17.60	17.60		7.93	7.93		30.30	30.30		83.0	82.2		6.51	6.54		4.05	3.82		7	
31/12/2016	2:29	Cloudy	Middle	3.5	18.40	18.40	18.40	8.10	8.10	8.10	29.21	29.20	29.20	78.4	78.5	79.0	6.18	6.19	6.23	5.39	5.41	5.42	5	5.00
	2:30		Middle	3.5	18.40	18.40		8.10	8.10		29.20	29.20		80.0	79.2		6.31	6.25		5.43	5.45		5	
3/1/2017	3:33	Fine	Middle	3.5	19.50	19.50	19.50	7.77	7.77	7.77	28.55	28.55	28.55	67.7	68.2	68.0	5.25	5.29	5.27	3.78	3.82	3.78	5	5.00
	3:34		Middle	3.5	19.50	19.50		7.77	7.77		28.55	28.55		68.0	67.9		5.27	5.27		3.80	3.72		5	
5/1/2017	3:22	Cloudy	Middle	3.5	20.20	20.20	20.25	7.80	7.80	7.82	29.92	29.92	29.93	72.3	74.7	73.6	5.49	5.56	5.55	3.57	3.66	3.55	4	3.50
	3:23		Middle	3.5	20.30	20.30		7.83	7.83		29.93	29.93		74.3	73.0		5.61	5.52		3.53	3.45		3	
7/1/2017	6:06	Cloudy	Middle	4.0	20.30	20.30	20.35	7.94	7.94	7.95	30.13	30.13	30.15	78.8	79.9	79.5	5.96	6.04	6.01	2.06	2.09	2.10	5	4.50
	6:07		Middle	4.0	20.40	20.40		7.95	7.95		30.17	30.17		80.1	79.2		6.05	5.98		2.11	2.13		4	
9/1/2017	22:06	Cloudy	Middle	4.0	20.00	20.00	20.05	7.93	7.93	7.93	30.56	30.56	30.56	81.2	81.1	80.7	6.16	6.15	6.11	2.45	2.52	2.49	6	7.50
	22:07		Middle	4.0	20.10	20.10		7.93	7.93		30.56	30.56		80.1	80.3		6.05	6.07		2.50	2.48		9	
11/1/2017	0:01	Cloudy	Middle	3.5	20.10	20.10	20.20	7.94	7.94	7.97	30.69	30.69	30.70	81.2	81.2	81.4	6.13	6.13	6.14	2.68	2.66	2.61	4	4.00
	0:02		Middle	3.5	20.30	20.30		7.99	8.00		30.70	30.70		81.7	81.4		6.17	6.14		2.56	2.52		4	
14/1/2017	23:15	Cloudy	Middle	4.0	18.20	18.20	18.20	7.99	7.99	8.00	30.70	30.70	30.70	78.0	78.9	78.8	6.12	6.19	6.19	3.60	3.71	3.72	5	6.00
	23:16		Middle	4.0	18.20	18.20		8.00	8.00		30.70	30.70		79.4	79.0		6.23	6.20		3.77	3.78		7	
16/1/2017	3:53	Cloudy	Middle	4.0	17.60	17.60	17.58	7.85	7.85	7.87	29.15	29.16	29.16	70.1	70.3	70.3	5.61	5.64	5.63	3.78	3.94	3.73	7	5.50
	3:54		Middle	4.0	17.50	17.60		7.89	7.89		29.17	29.17		70.7	70.0		5.67	5.61		3.59	3.61		4	
18/1/2017	3:40	Cloudy	Middle	4.0	18.90	18.90	18.90	7.62	7.62	7.66	30.38	30.38	30.38	69.7	71.8	71.7	5.40	5.57	5.56	3.10	3.08	3.14	4	4.00
	3:41		Middle	4.0	18.90	18.90		7.70	7.69		30.38	30.38		73.3	72.0		5.68	5.58		3.15	3.22		4	
20/1/2017	4:35	Cloudy	Middle	4.0	19.10	19.10	19.15	7.91	7.91	7.92	29.71	29.71	29.72	78.9	80.3	79.5	6.10	6.21	6.14	2.48	2.41	2.42	3	4.00
	4:36		Middle	4.0	19.20	19.20		7.92	7.93		29.72	29.72		80.6	78.0		6.23	6.03		2.38	2.42		5	
23/1/2017	22:45	Cloudy	Middle	4.0	18.50	18.50	18.50	8.37	8.37	8.37	31.08	31.08	31.08	93.6	92.8	93.3	7.42	7.36	7.40	4.24	4.22	4.29	12	9.00
	22:46		Middle	4.0	18.50	18.50		8.37	8.37		31.08	31.08		93.2	93.6		7.39	7.42		4.21	4.50		6	

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

Water Monitoring Result at RW21-P789E - GEC / CRB / SHK
Mid-Ebb Tide

Date	Time	Weater Condition	Sampling Depth (m)		Water Temperature (°C)			pH (-)			Salinity (ppt)			DO Saturation (%)			DO (mg/L)			Turbidity (NTU)			Suspended Solids (mg/L)	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
29/12/2016	1:16	Cloudy	Middle	3.5	17.80	17.80	17.75	8.02	8.02	8.02	30.10	30.10	30.11	79.1	79.3	78.9	6.29	6.31	6.27	3.61	3.56	3.58	7	5.50
	1:17		Middle	3.5	17.70	17.70		8.03	8.02		30.11	30.11		78.8	78.3		6.26	6.22		3.59	3.54		4	
31/12/2016	2:45	Cloudy	Middle	3.5	18.70	18.70	18.65	7.86	7.86	7.89	30.37	30.37	30.38	84.2	84.4	83.5	6.57	6.58	6.51	5.50	5.46	5.44	5	6.00
	2:46		Middle	3.5	18.60	18.60		7.92	7.92		30.38	30.38		83.0	82.2		6.48	6.41		5.38	5.40		7	
3/1/2017	3:45	Fine	Middle	3.5	19.60	19.60	19.60	7.79	7.79	7.81	28.84	28.86	28.86	67.6	67.8	67.4	5.22	5.23	5.20	4.57	4.59	4.58	4	5.00
	3:46		Middle	3.5	19.60	19.60		7.82	7.82		28.86	28.86		66.8	67.3		5.16	5.20		4.60	4.55		6	
5/1/2017	3:31	Cloudy	Middle	3.5	20.20	20.20	20.25	7.88	7.88	7.89	30.44	30.44	30.44	77.6	79.0	78.4	5.98	5.97	5.95	4.56	4.26	4.32	4	4.50
	3:32		Middle	3.5	20.30	20.30		7.90	7.90		30.44	30.44		78.6	78.2		5.94	5.90		4.22	4.25		5	
7/1/2017	6:11	Cloudy	Middle	4.0	20.40	20.40	20.40	7.83	7.83	7.84	30.31	30.31	30.31	78.8	79.1	77.9	5.94	5.96	5.87	2.47	2.50	2.37	10	9.50
	6:12		Middle	4.0	20.40	20.40		7.85	7.85		30.31	30.31		76.4	77.4		5.75	5.83		2.24	2.26		9	
9/1/2017	22:13	Cloudy	Middle	4.0	20.10	20.10	20.15	7.66	7.66	7.69	30.53	30.53	30.53	82.6	81.2	82.1	6.25	6.14	6.22	2.46	2.48	2.49	6	5.50
	10:29		Middle	4.0	20.20	20.20		7.72	7.72		30.53	30.53		82.4	82.3		6.24	6.24		2.51	2.52		5	
11/1/2017	0:10	Cloudy	Middle	3.5	20.10	20.10	20.15	8.04	8.04	8.05	30.75	30.75	30.75	74.4	75.0	75.2	5.62	5.67	5.68	3.53	3.59	3.51	6	6.00
	0:11		Middle	3.5	20.20	20.20		8.06	8.06		30.75	30.75		76.0	75.3		5.74	5.69		3.50	3.42		6	
14/1/2017	23:32	Cloudy	Middle	4.0	18.20	18.20	18.20	7.86	7.86	7.88	30.57	30.57	30.57	82.5	83.3	83.2	6.48	6.54	6.53	4.23	4.25	4.20	5	4.50
	23:33		Middle	4.0	18.20	18.20		7.90	7.89		30.57	30.58		83.3	83.5		6.54	6.56		4.19	4.12		4	
16/1/2017	4:05	Cloudy	Middle	4.0	17.80	17.80	17.80	7.61	7.61	7.74	30.03	30.06	30.04	70.8	71.0	71.5	5.62	5.64	5.68	2.89	2.69	2.76	4	4.00
	4:06		Middle	4.0	17.80	17.80		7.87	7.87		30.03	30.03		71.9	72.1		5.71	5.73		2.75	2.72		4	
18/1/2017	3:57	Cloudy	Middle	4.0	18.90	18.90	18.93	8.05	8.05	8.06	30.55	30.55	30.55	82.4	82.4	81.9	6.38	6.38	6.34	4.73	4.67	4.66	6	5.50
	3:58		Middle	4.0	19.00	18.90		8.08	8.07		30.55	30.55		82.1	80.6		6.35	6.24		4.65	4.59		5	
20/1/2017	4:45	Cloudy	Middle	4.0	18.70	18.70	18.75	8.00	8.00	8.00	29.37	29.37	29.38	67.5	67.8	67.2	5.27	5.29	5.24	4.34	4.43	4.34	7	5.50
	4:46		Middle	4.0	18.80	18.80		8.00	8.00		29.38	29.38		66.7	66.6		5.21	5.20		4.38	4.20		4	
23/1/2017	22:53	Cloudy	Middle	4.0	18.60	18.60	18.60	8.40	8.40	8.40	31.23	31.23	31.23	90.1	91.2	90.8	7.13	7.22	7.19	4.53	4.32	4.38	7	7.00
	22:54		Middle	4.0	18.60	18.60		8.40	8.40		31.23	31.23		91.4	90.6		7.23	7.17		4.31	4.34		7	

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

Water Monitoring Result at RW21-P789 - GEC / CRB / SHK
Mid-Ebb Tide

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
25/1/2017	23:22	Fine	Middle	3.5	18.40	18.40	18.40	8.04	8.04	8.05	30.31	30.31	30.31	78.6	78.2	78.1	6.15	6.12	6.11	4.36	4.17	4.24	3	4.00
	23:23		Middle	3.5	18.40	18.40		8.05	8.05		30.31	30.31		78.0	77.6		6.11	6.07		4.20	4.22		5	

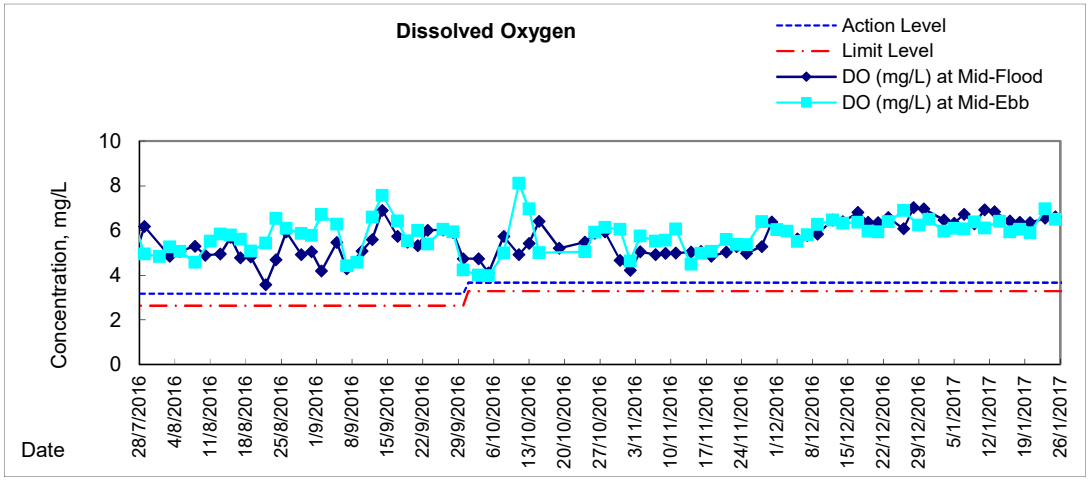
Remarks:
Single underline denotes exceedance over Action Level.
Double underline denotes exceedance over Limit Level.

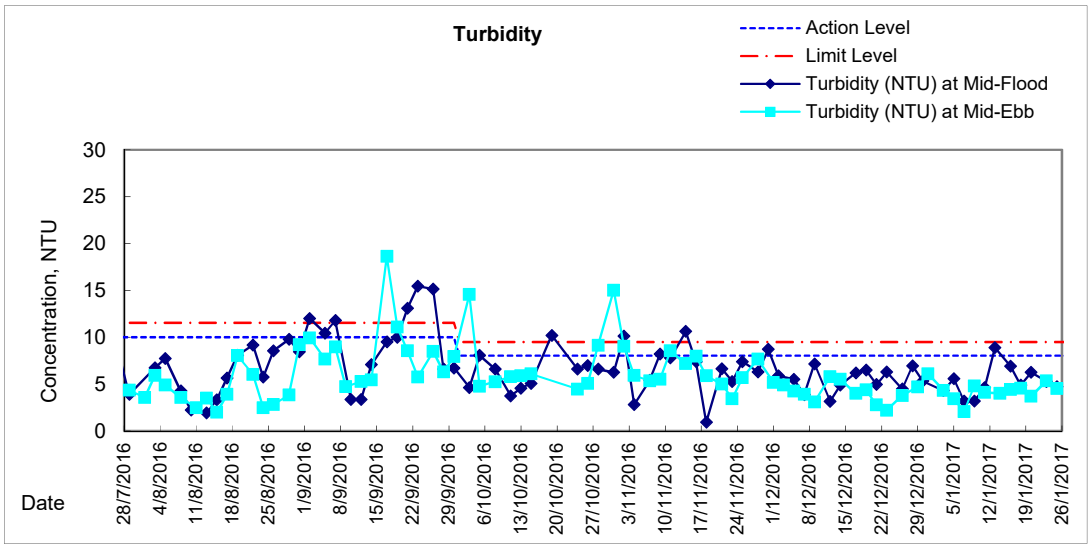
Water Monitoring Result at WSD19 - Sheung Wan
Mid-Ebb Tide

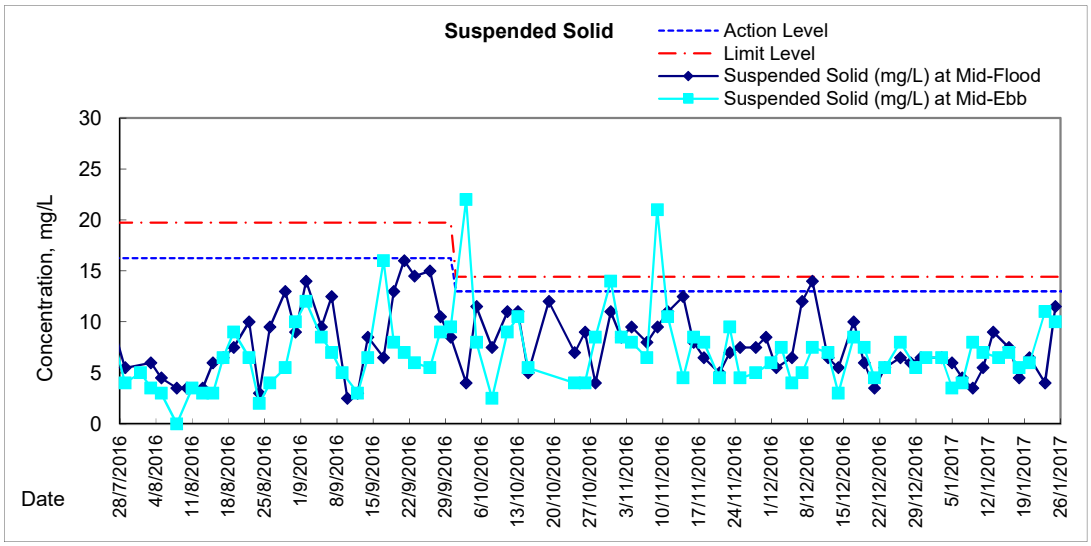
Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
29/12/2016	2:45	Cloudy	Middle	3.5	18.30	18.30	18.30	7.68	7.68	7.68	30.23	30.23	30.24	79.2	81.0	79.4	6.22	6.36	6.23	4.68	4.71	4.71	4	5.50
	2:46		Middle	3.5	18.30	18.30		7.68	7.68		30.24	30.24		79.1	78.2		6.21	6.14		4.74	4.72		7	
31/12/2016	3:25	Cloudy	Middle	3.5	18.70	18.70	18.65	8.01	8.01	8.02	30.37	30.37	30.38	83.2	83.8	83.3	6.49	6.54	6.50	6.30	6.08	6.10	8	6.50
	3:26		Middle	3.5	18.60	18.60		8.02	8.02		30.38	30.38		83.4	82.6		6.50	6.45		5.95	6.05		5	
3/1/2017	4:12	Fine	Middle	3.5	19.70	19.70	19.70	7.76	7.76	7.77	30.10	30.11	30.12	77.2	78.2	77.9	5.91	5.98	5.96	4.37	4.34	4.33	7	6.50
	4:13		Middle	3.5	19.70	19.70		7.77	7.77		30.13	30.13		78.3	78.0		5.99	5.96		4.32	4.30		6	
5/1/2017	4:07	Cloudy	Middle	3.5	20.40	20.40	20.50	7.75	7.75	7.75	29.80	29.80	29.82	80.1	81.2	80.8	6.04	6.14	6.09	3.61	3.42	3.44	3	3.50
	4:08		Middle	3.5	20.60	20.60		7.75	7.75		29.83	29.83		81.1	80.6		6.10	6.08		3.37	3.34		4	
7/1/2017	5:10	Cloudy	Middle	3.5	20.50	20.50	20.60	7.58	7.58	7.57	29.79	29.80	29.80	80.6	80.8	80.5	6.06	6.09	6.06	2.10	2.07	2.06	4	4.00
	5:11		Middle	3.5	20.70	20.70		7.55	7.55		29.80	29.80		80.3	80.4		6.04	6.04		2.00	2.05		4	
9/1/2017	21:05	Cloudy	Middle	3.5	20.70	20.70	20.75	7.58	7.58	7.58	30.25	30.25	30.25	85.4	85.7	85.3	6.39	6.41	6.38	4.90	4.80	4.80	9	8.00
	21:06		Middle	3.5	20.80	20.80		7.58	7.58		30.25	30.25		85.1	84.9		6.37	6.35		4.74	4.77		7	
11/1/2017	0:49	Cloudy	Middle	3.5	20.00	20.00	20.10	7.83	7.83	7.85	30.26	30.26	30.26	81.0	81.1	80.6	6.13	6.14	6.10	4.07	4.16	4.11	6	7.00
	0:50		Middle	3.5	20.20	20.20		7.86	7.86		30.26	30.26		80.2	80.0		6.07	6.06		4.12	4.10		8	
14/1/2017	0:45	Cloudy	Middle	3.5	18.30	18.30	18.30	8.07	8.07	8.07	30.41	30.41	30.41	81.3	81.5	81.6	6.38	6.40	6.41	4.04	4.10	4.03	5	6.50
	0:46		Middle	3.5	18.30	18.30		8.07	8.07		30.41	30.41		82.1	81.3		6.45	6.39		4.00	3.96		8	
16/1/2017	4:27	Cloudy	Middle	3.5	17.90	17.90	17.90	7.69	7.69	7.69	29.99	30.02	30.01	74.3	75.3	74.8	5.90	5.98	5.94	4.47	4.50	4.44	7	7.00
	4:28		Middle	3.5	17.90	17.90		7.69	7.69		30.02	30.02		75.1	74.5		5.96	5.90		4.41	4.38		7	
18/1/2017	5:10	Cloudy	Middle	3.5	19.00	19.00	19.00	7.94	7.94	7.95	30.32	30.32	30.33	78.3	78.0	78.0	6.06	6.04	6.04	4.67	4.60	4.56	5	5.50
	5:11		Middle	3.5	19.00	19.00		7.95	7.95		30.33	30.33		78.1	77.6		6.05	6.01		4.48	4.50		6	
20/1/2017	6:03	Cloudy	Middle	3.5	18.80	18.80	18.85	7.99	7.99	7.99	30.21	30.21	30.21	75.2	75.9	75.7	5.84	5.90	5.88	3.78	3.73	3.72	7	6.00
	6:04		Middle	3.5	18.90	18.90		7.99	7.99		30.21	30.21		75.8	76.0		5.89	5.90		3.69	3.67		5	
23/1/2017	21:30	Cloudy	Middle	3.5	18.70	18.70	18.70	8.17	8.17	8.22	30.77	30.77	30.82	90.2	89.9	89.6	7.01	6.99	6.96	5.44	5.42	5.35	11	11.00
	21:31		Middle	3.5	18.70	18.70		8.27	8.27		30.86	30.86		89.2	89.1		6.93	6.92		5.23	5.30		11	
25/1/2017	0:45	Fine	Middle	3.0	18.50	18.50	18.50	7.97	7.97	7.98	30.93	30.93	30.89	83.1	83.0	83.2	6.47	6.46	6.49	4.57	4.52	4.54	14	10.00
	0:46		Middle	3.0	18.50	18.50		7.98	7.98		30.85	30.85		83.6	82.9		6.60	6.44		4.60	4.48		6	

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

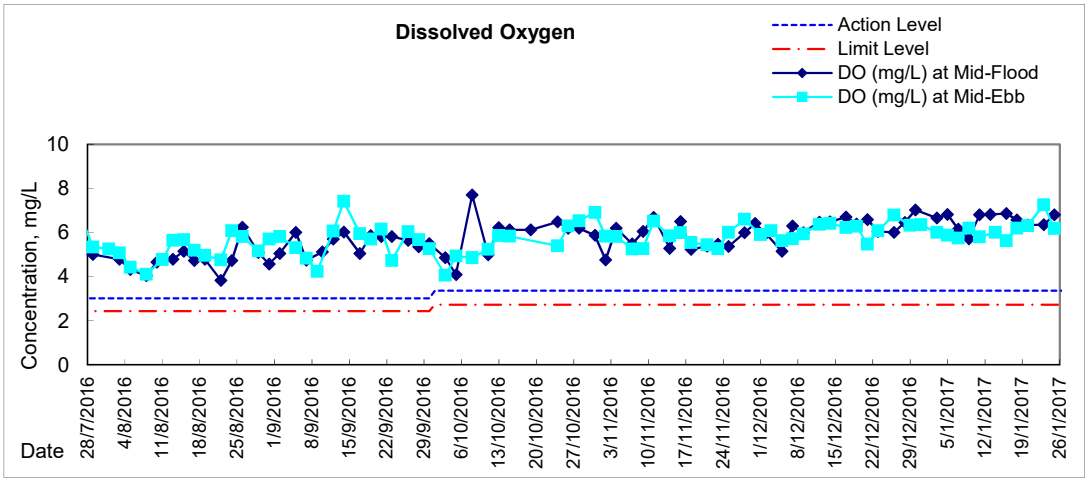
Graphic Presentation of Water Quality Result of WSD19 - Sheung Wan

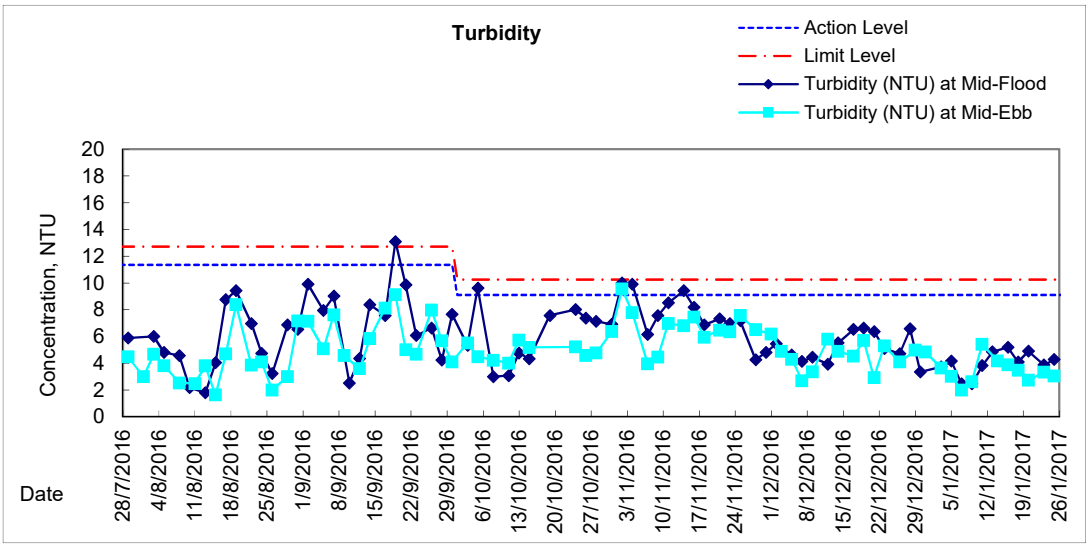


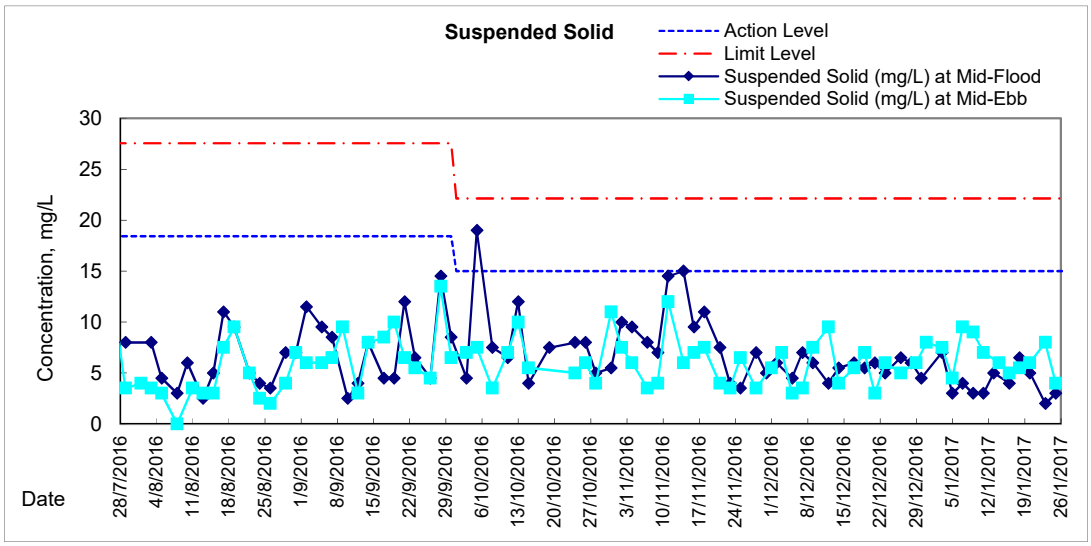




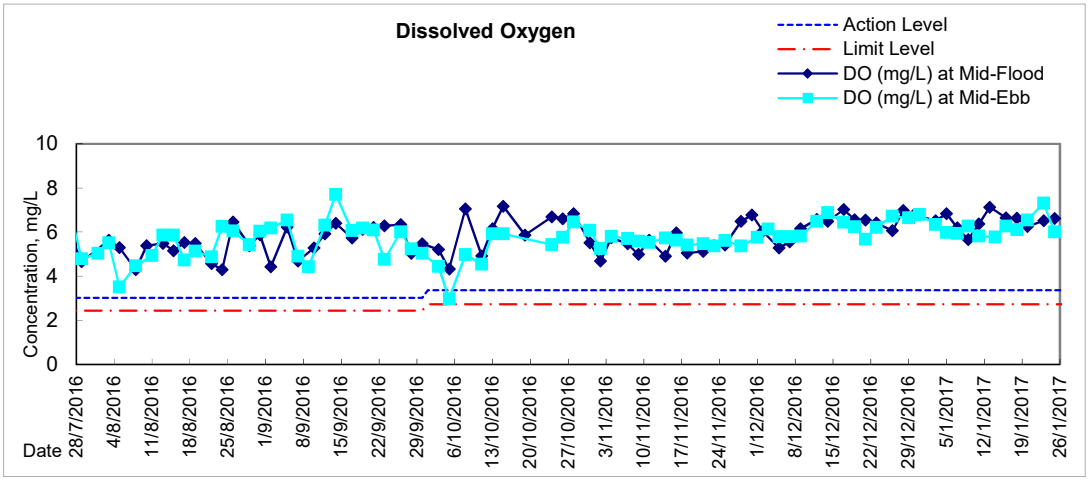
Graphic Presentation of Water Quality Result of C1 - HKCEC

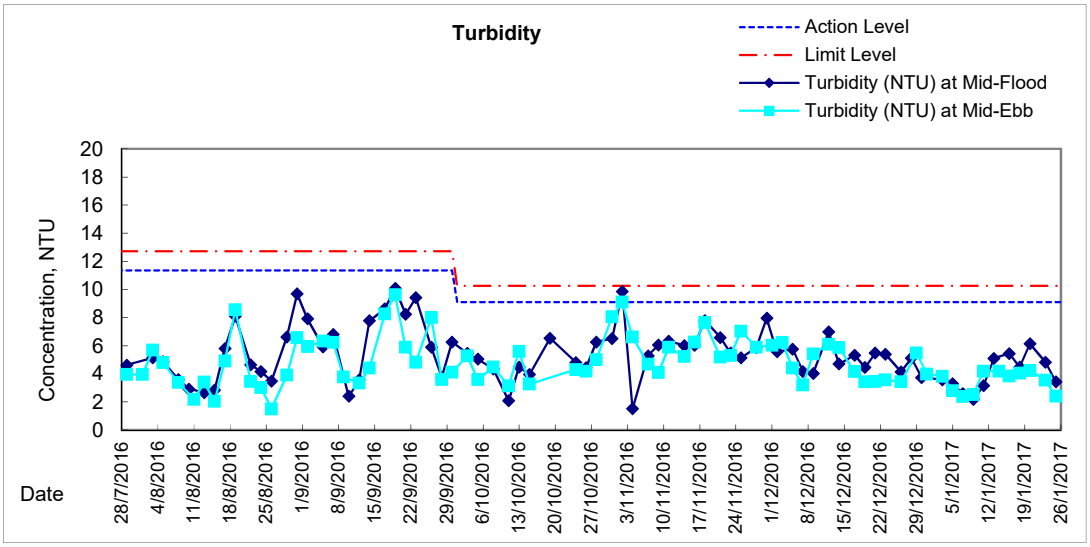


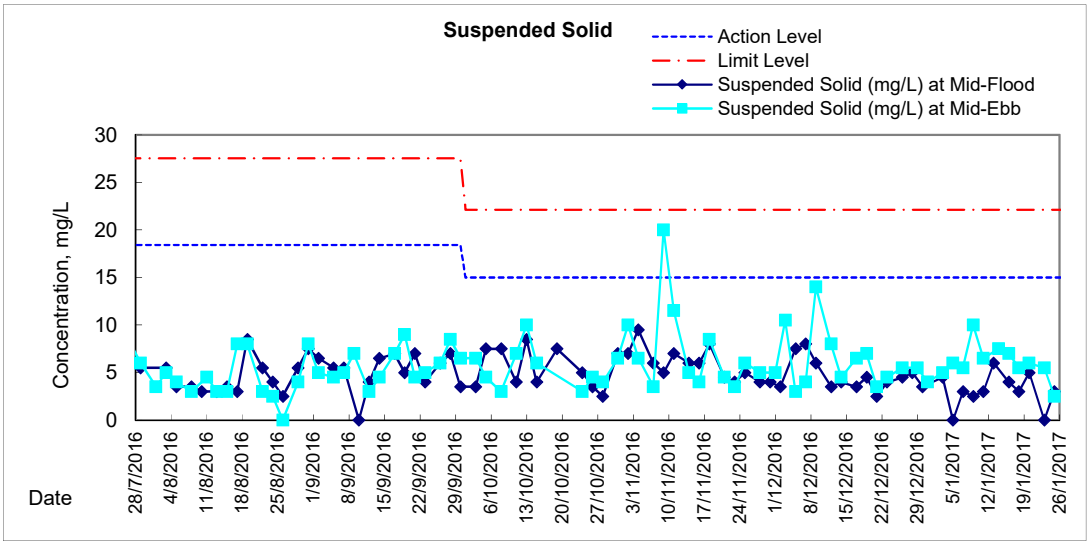




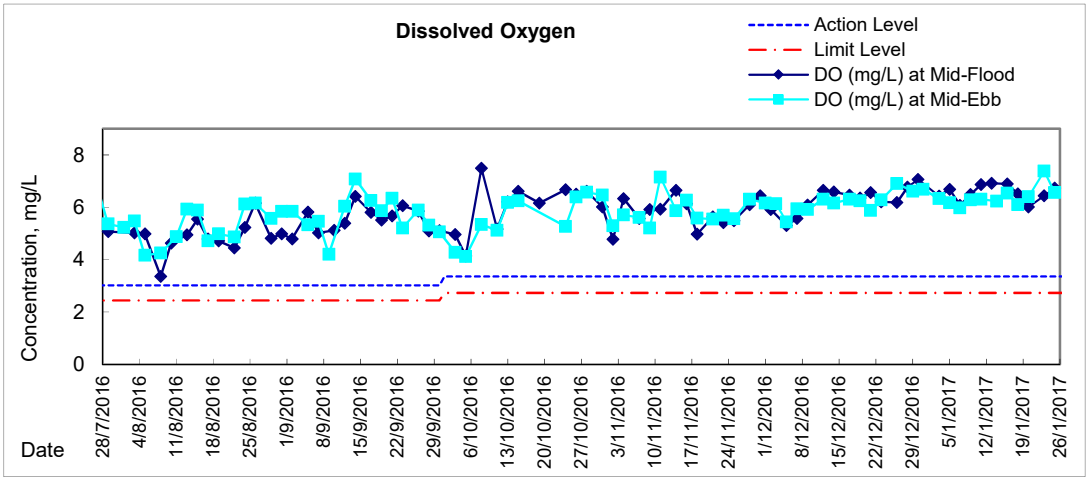
Graphic Presentation of Water Quality Result of P1 - HKCEC Phase I

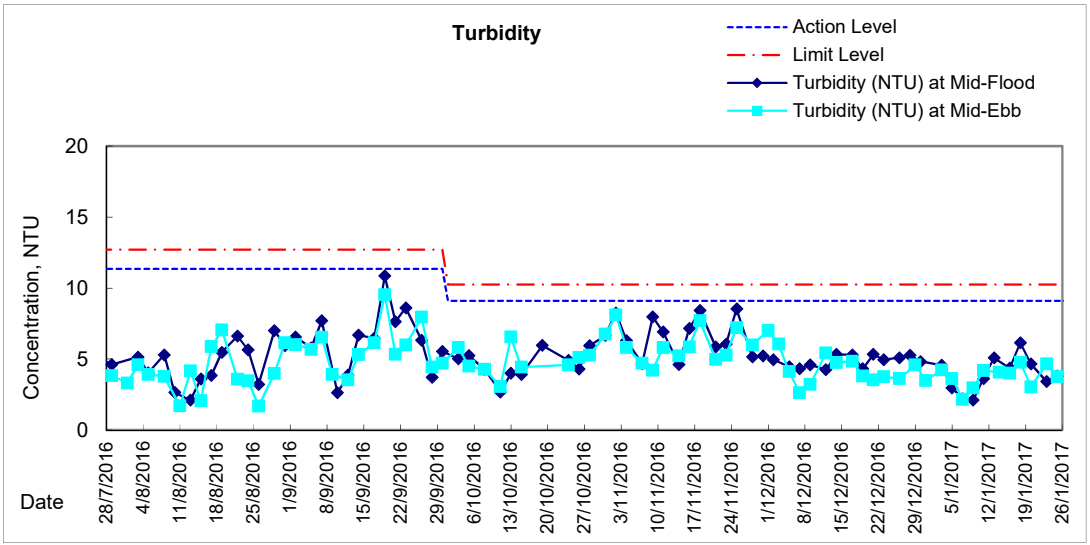


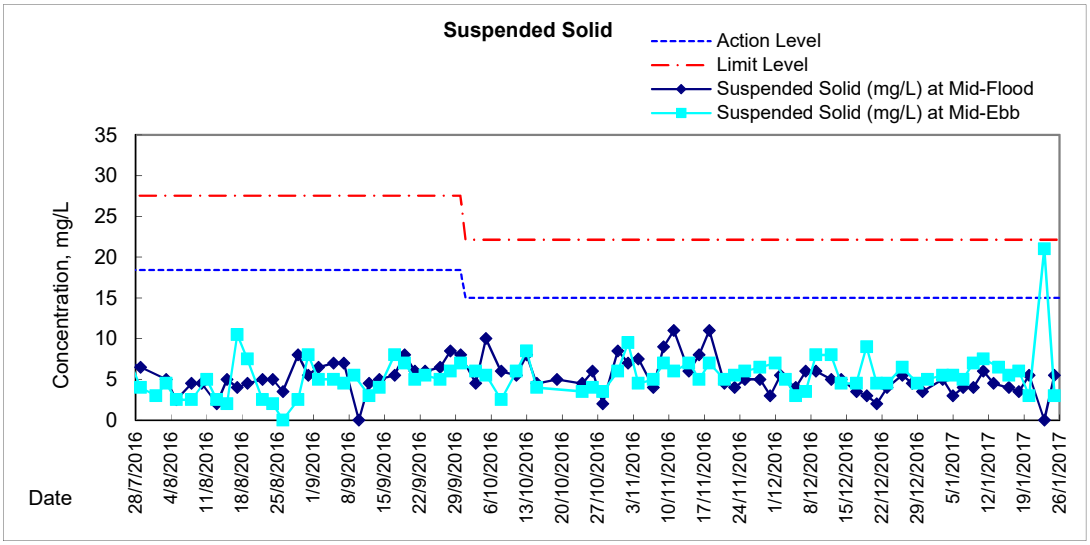




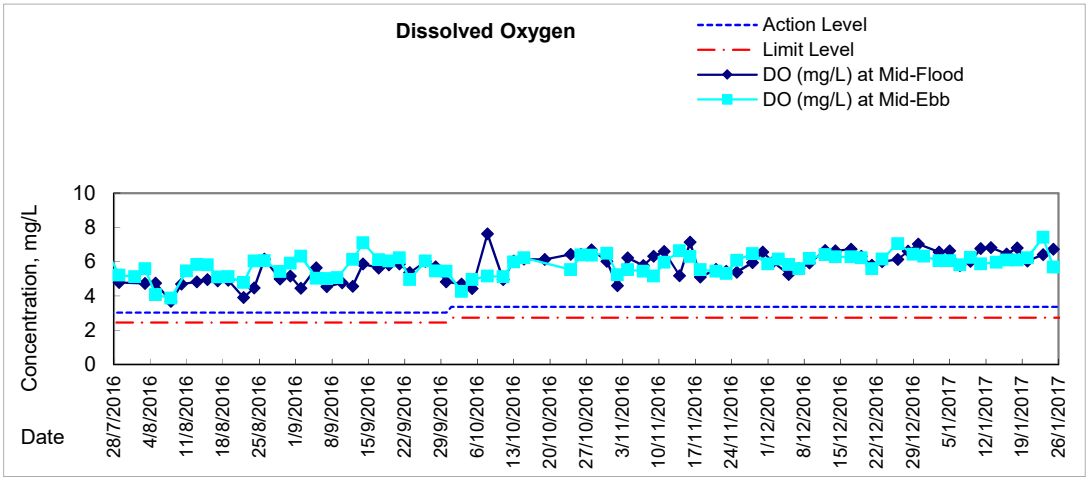
Graphic Presentation of Water Quality Result of P3 - APA

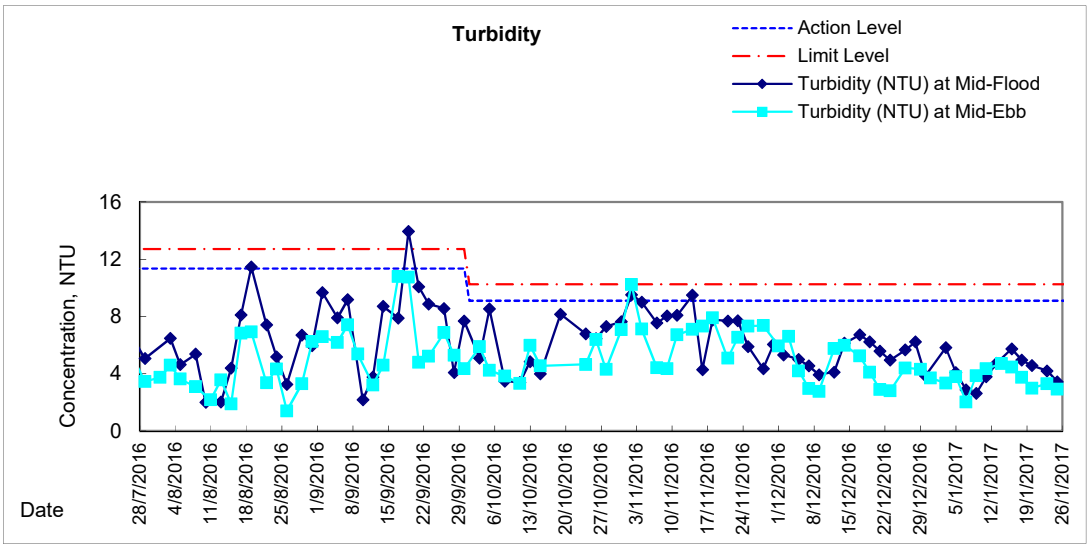


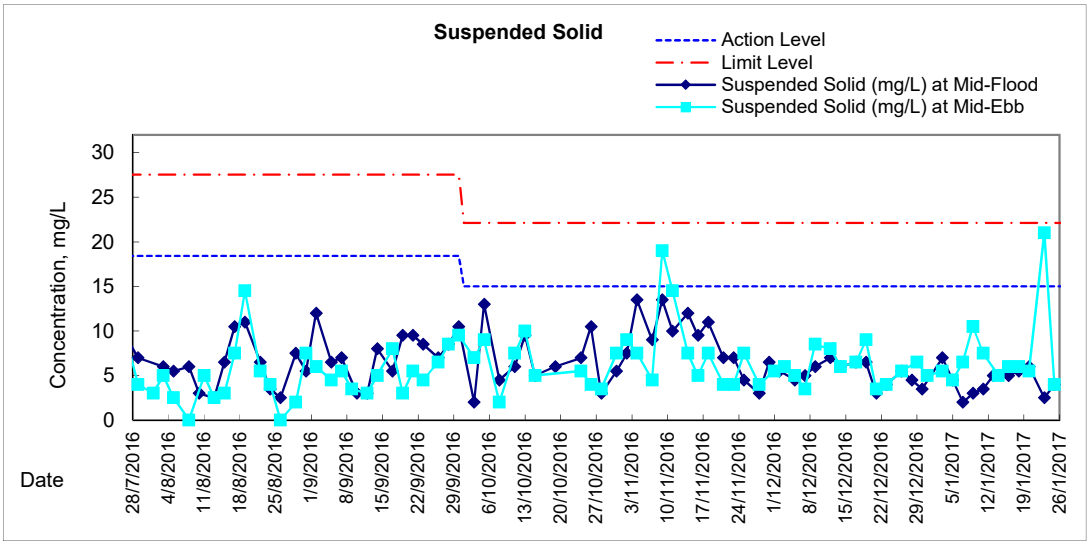




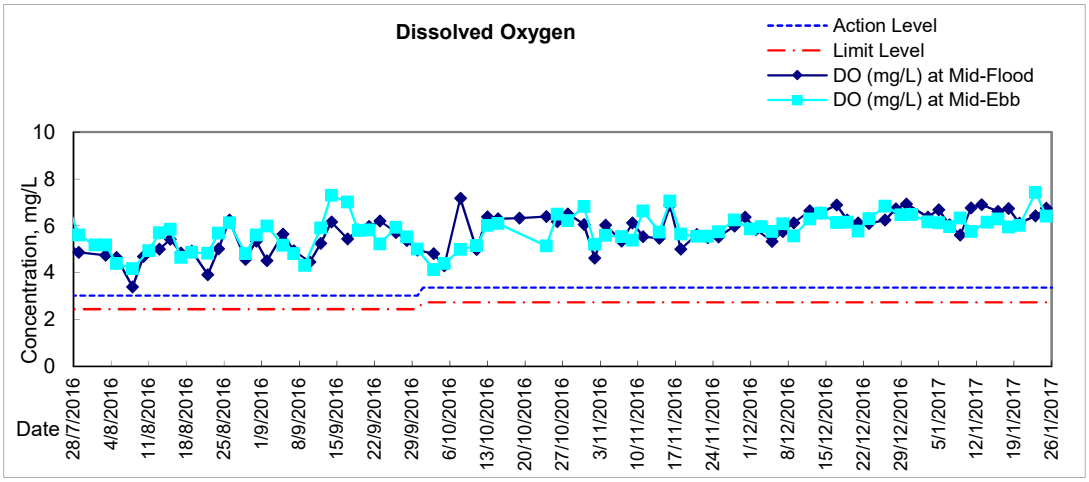
Graphic Presentation of Water Quality Result of P5 - WCT / RT / IT

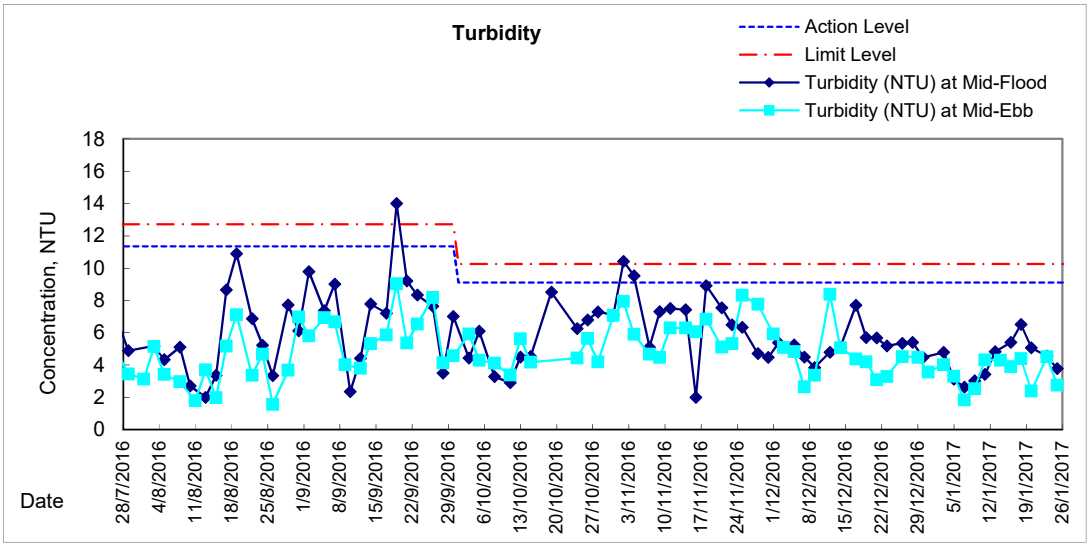


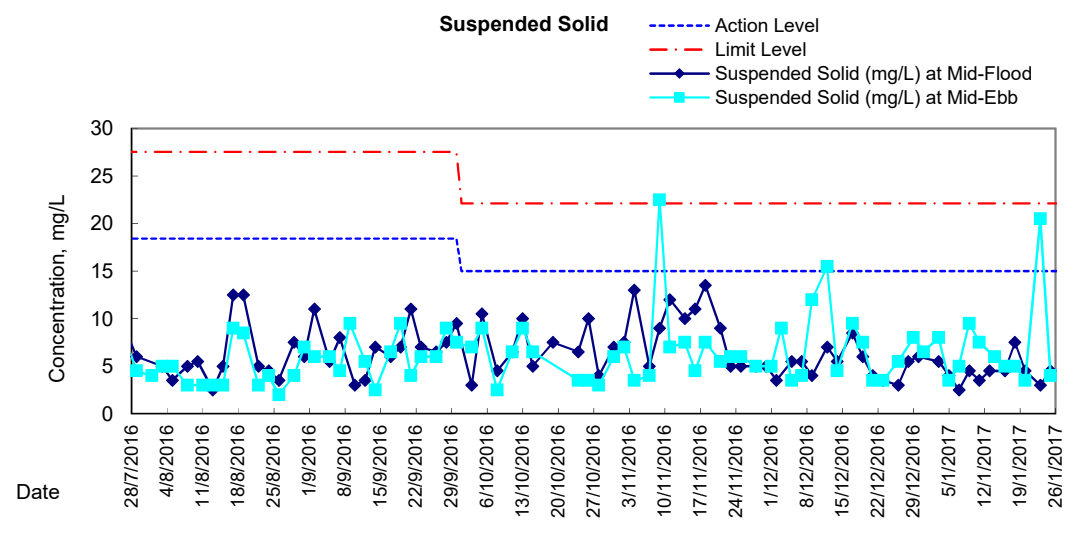




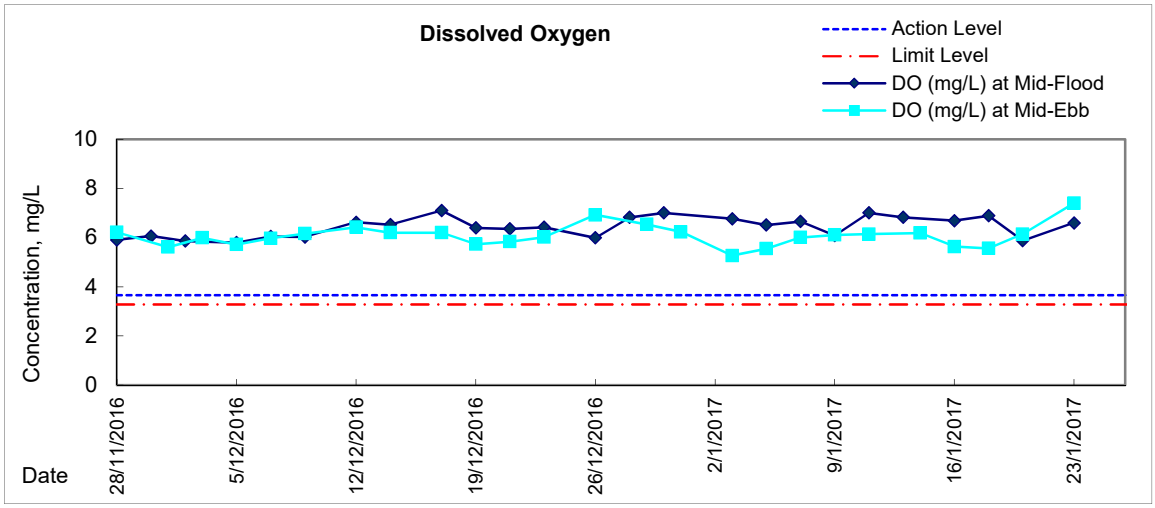
Graphic Presentation of Water Quality Result of P4 - SOC

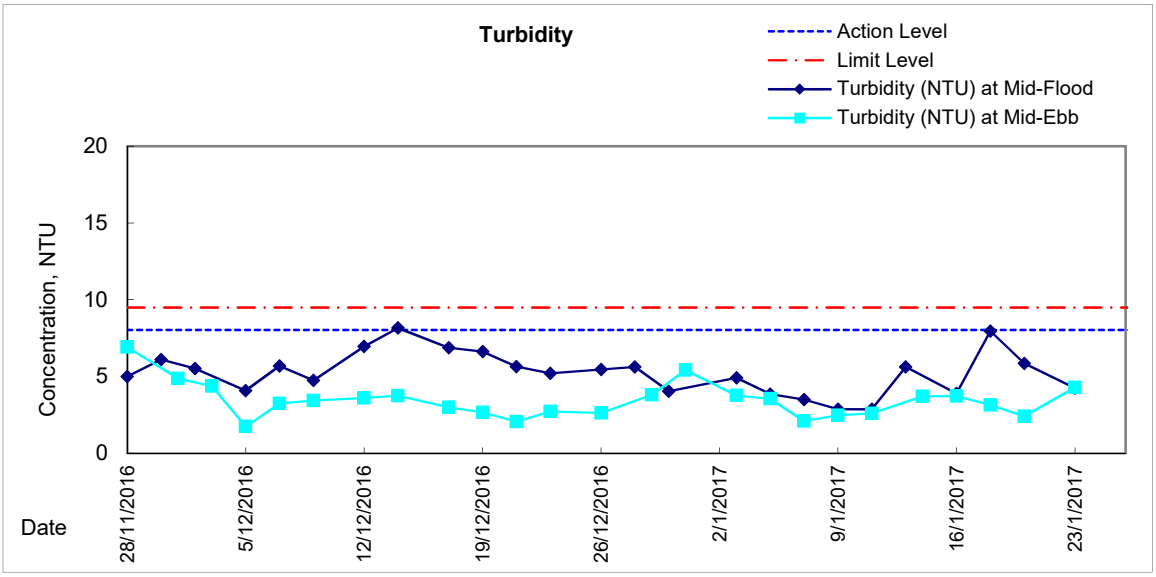


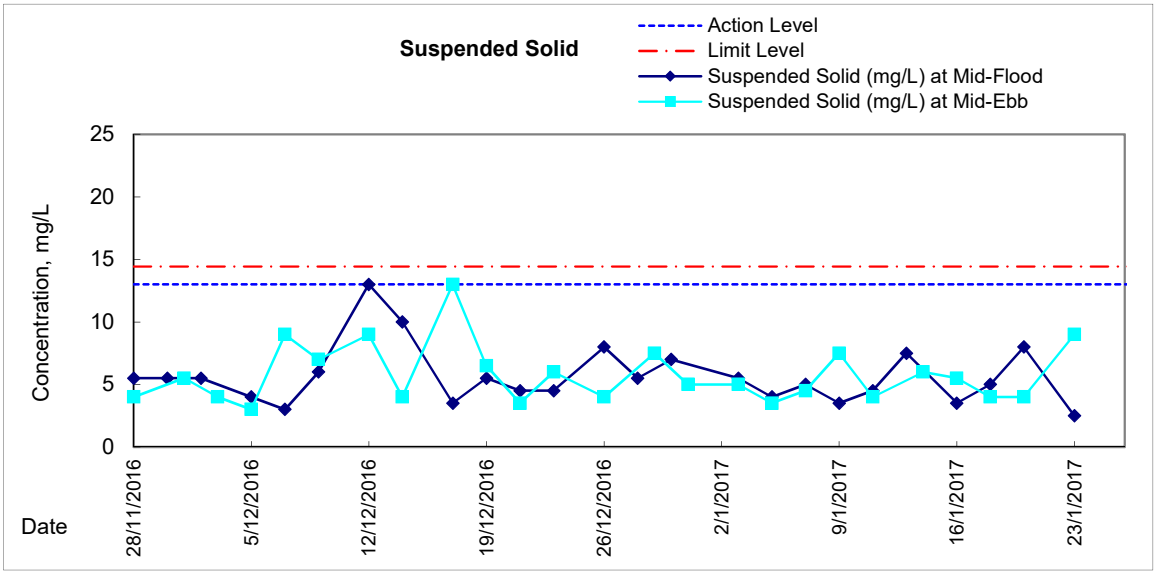




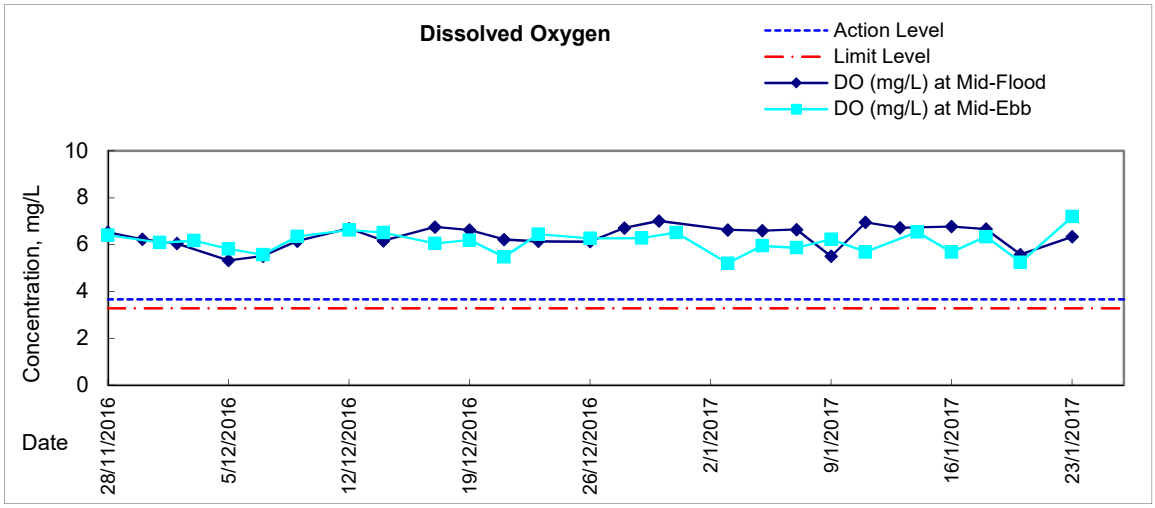
Graphic Presentation of Water Quality Result of RW21-P789W - GEC/CRC/SHK

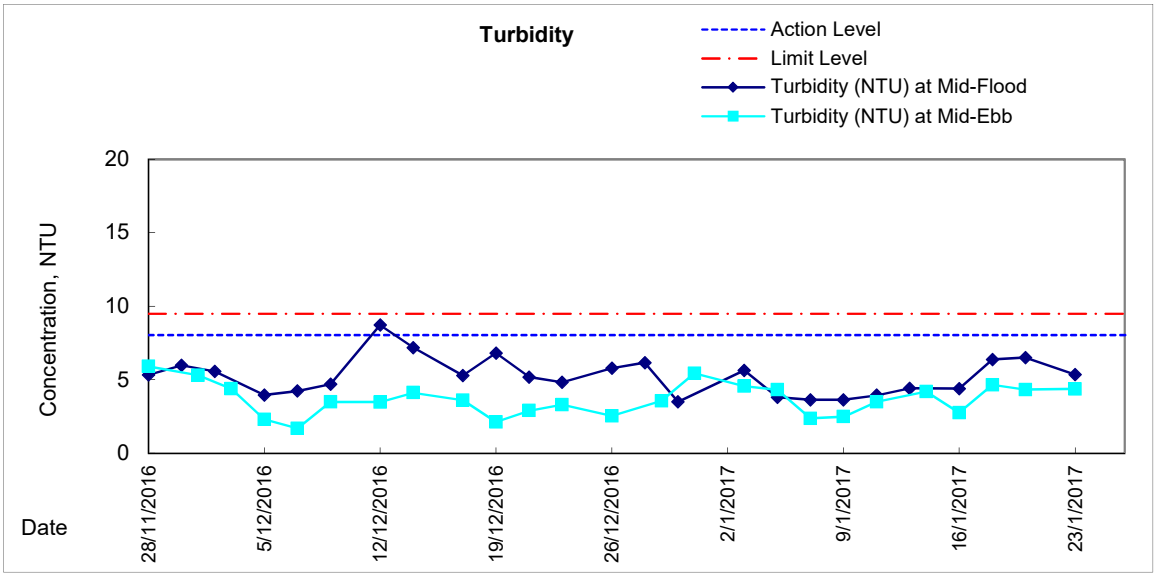


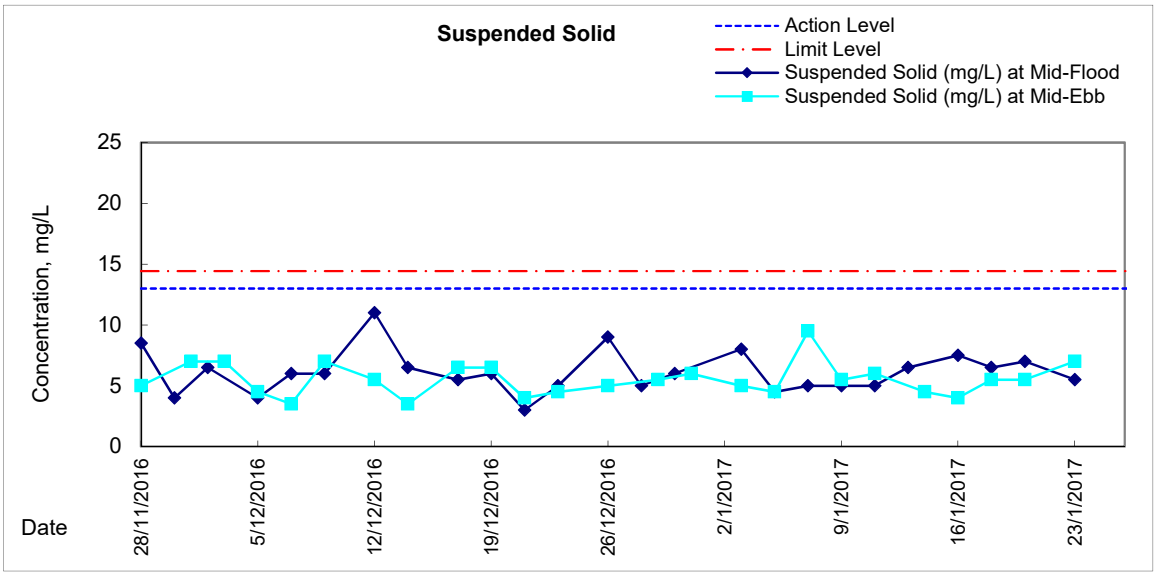




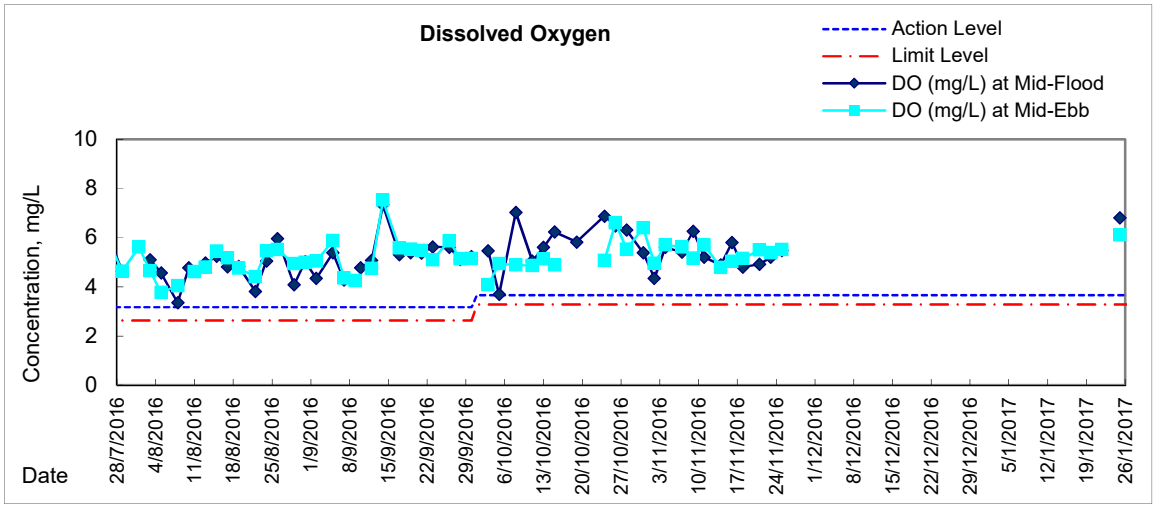
Graphic Presentation of Water Quality Result of RW21-P789E - GEC/CRC/SHK

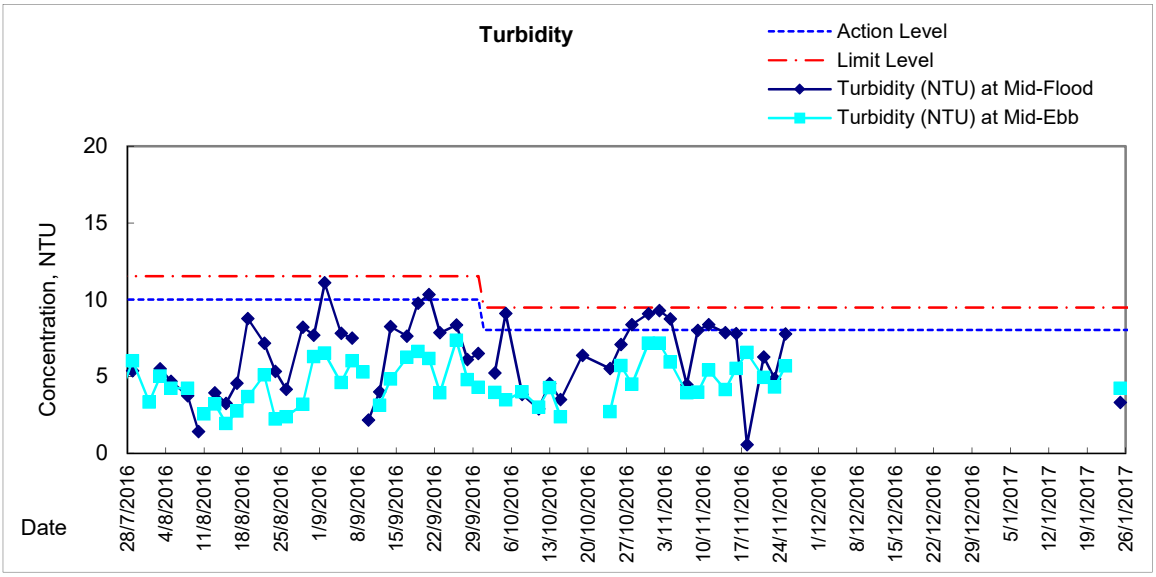


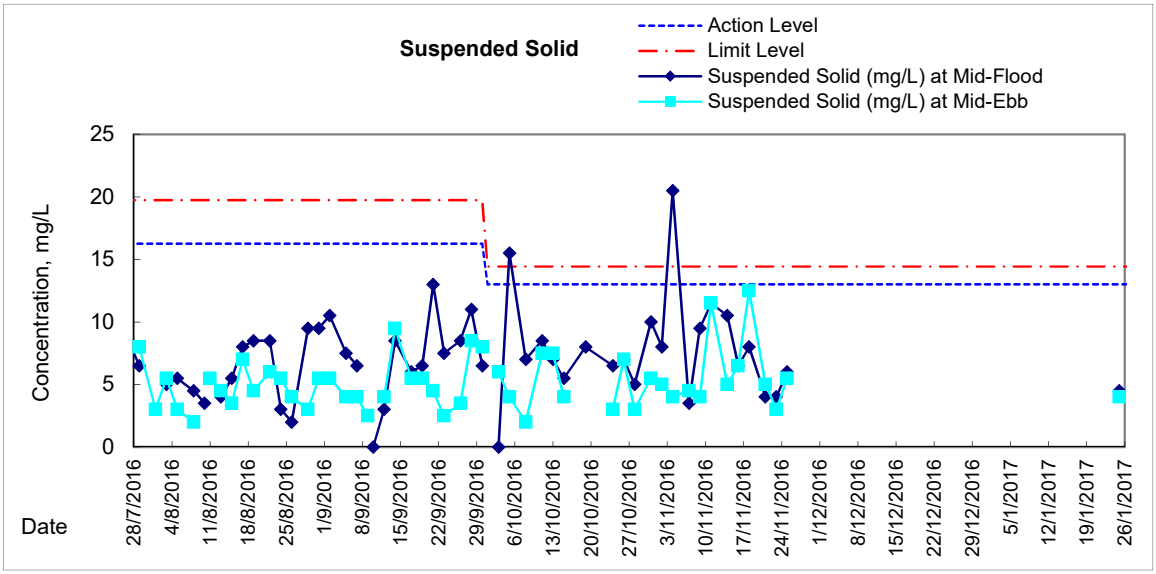




Graphic Presentation of Water Quality Result of RW21-P789 - GEC/CRC/SHK

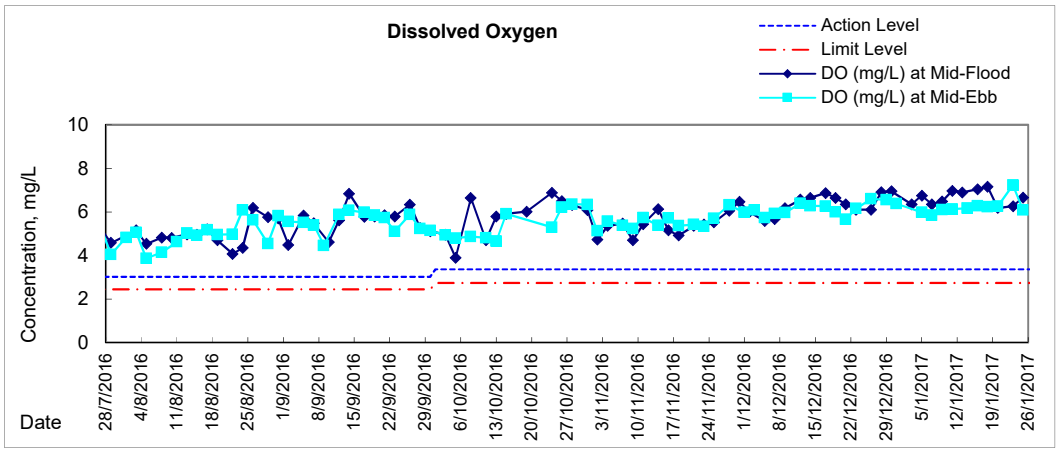


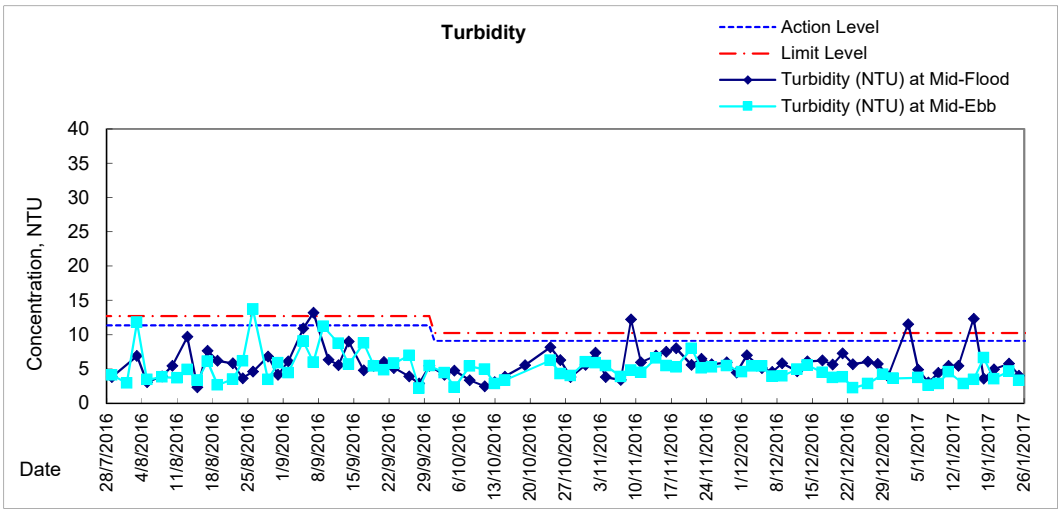


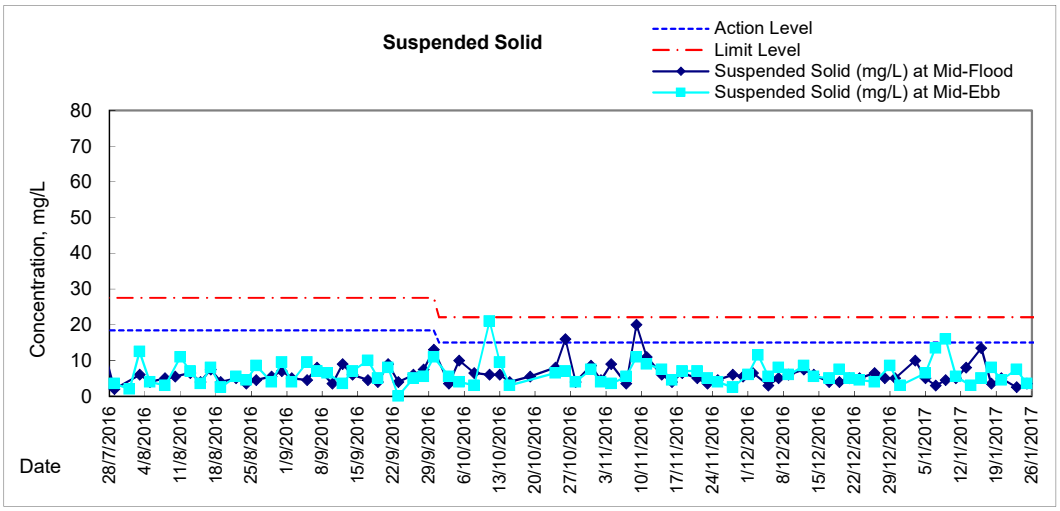


Remarks: With respect to the removal of silt screen system for Cooling Water Intakes P7, P8, P9 and WSD Water Intake RW21, the respective water quality monitoring at monitoring station RW21-P789 was adjusted to RW21-P789 East (RW21-P789E) and RW21-P789 West (RW21-P789W) from 28 November 2016 ebb tide.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

Graphic Presentation of Water Quality Result of C7 - Windsor House







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

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO		
			m		°C			-			ppt			%			mg/L		
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average
28/12/2016	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15:15		Middle	1.5	20.00	20.00	20.0	8.18	8.18	8.2	29.50	29.50	29.5	77.2	77.2	77.2	5.90	5.90	5.90
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30/12/2016	18:40	Fine	Surface	1.0	19.70	19.70	19.7	8.26	8.26	8.3	29.26	29.26	29.3	76.6	76.8	76.7	5.90	5.91	5.91
	-		Middle	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	18:42		Bottom	3.0	19.60	19.60	19.6	8.28	8.28	8.3	29.58	29.58	29.6	86.1	86.9	86.5	6.62	6.67	6.65
3/1/2017	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12:05		Middle	1.5	20.30	20.30	20.3	8.20	8.20	8.2	28.96	28.96	29.0	77.4	77.3	77.4	5.90	5.89	5.90
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5/1/2017	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15:05		Middle	1.5	20.80	20.80	20.8	8.20	8.20	8.2	29.06	29.06	29.1	74.0	74.0	74.0	5.57	5.57	5.57
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7/1/2017	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	13:48		Middle	1.0	21.40	21.40	21.4	8.08	8.08	8.1	28.08	28.08	28.1	72.3	71.2	71.8	5.42	5.34	5.38
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9/1/2017	15:40	Fine	Surface	1.0	21.30	21.30	21.3	8.15	8.15	8.2	29.07	29.07	29.1	65.8	66.3	66.1	4.92	4.95	4.94
	-		Middle	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15:42		Bottom	3.0	21.00	21.00	21.0	8.18	8.18	8.2	29.58	29.58	29.6	79.7	80.6	80.2	5.98	6.03	6.01
11/1/2017	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	17:00		Middle	1.5	20.20	20.20	20.2	8.28	8.28	8.3	29.51	29.51	29.5	85.0	84.3	84.7	6.48	6.43	6.46
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13/1/2017	-	Rainy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	18:39		Middle	1.5	19.40	19.40	19.4	8.26	8.26	8.3	29.50	29.50	29.5	72.8	72.3	72.6	5.63	5.69	5.66
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16/1/2017	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12:15		Middle	1.5	19.30	19.30	19.3	8.24	8.24	8.2	29.46	29.46	29.5	69.4	69.2	69.3	5.38	5.36	5.37
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18/1/2017	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12:00		Middle	1.5	19.70	19.70	19.7	8.23	8.23	8.2	29.67	29.67	29.7	80.2	78.5	79.4	6.06	6.02	6.04
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20/1/2017	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	13:50		Middle	1.5	20.40	20.40	20.4	7.94	7.94	7.9	29.62	29.62	29.6	62.8	62.9	62.9	4.75	4.76	4.76
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23/1/2017	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14:40		Middle	1.5	19.60	19.60	19.6	8.11	8.11	8.1	29.11	29.11	29.1	67.2	68.3	67.8	5.19	5.31	5.25
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25/1/2017	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	16:00		Middle	1.5	19.70	19.70	19.7	8.04	8.04	8.0	29.95	29.95	30.0	88.5	88.4	88.5	6.77	6.76	6.77
	-		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

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO		
			m		°C			-			ppt			%			mg/L		
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average
28/12/2016	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	17:24		Middle	1.5	19.70	19.70	19.7	8.25	8.25	8.3	28.20	28.20	28.2	75.8	75.1	75.5	5.86	5.81	5.84
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30/12/2016	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	17:25		Middle	1.5	18.80	18.80	18.8	8.33	8.33	8.3	29.12	29.12	29.1	80.3	80.4	80.4	6.18	6.19	6.19
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3/1/2017	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11:30		Middle	1.5	20.70	20.70	20.7	8.18	8.18	8.2	26.26	26.26	26.3	66.6	66.3	66.5	5.12	5.10	5.11
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5/1/2017	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14:05		Middle	1.5	21.50	21.50	21.5	8.26	8.26	8.3	29.42	29.42	29.4	81.1	79.7	80.4	6.02	5.91	5.97
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7/1/2017	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11:15		Middle	1.5	21.30	21.30	21.3	8.21	8.21	8.2	29.39	28.39	28.9	75.0	73.4	74.2	5.63	5.50	5.57
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9/1/2017	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14:48		Middle	1.5	21.20	21.20	21.2	8.13	8.13	8.1	26.76	26.76	26.8	59.4	59.0	59.2	4.51	4.48	4.50
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11/1/2017	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	16:38		Middle	1.5	20.50	20.50	20.5	8.31	8.31	8.3	30.13	30.13	30.1	81.4	80.3	80.9	6.17	6.08	6.13
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13/1/2017	-	Rainy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	17:13		Middle	1.5	19.60	19.60	19.6	8.29	8.29	8.3	29.25	29.25	29.3	76.1	75.8	76.0	5.88	5.85	5.87
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16/1/2017	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	10:50		Middle	1.5	19.20	19.20	19.2	8.24	8.24	8.2	27.41	27.41	27.4	64.4	64.0	64.2	5.06	5.03	5.05
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18/1/2017	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11:20		Middle	1.5	19.70	19.70	19.7	8.24	8.24	8.2	27.83	27.83	27.8	73.6	72.8	73.2	5.70	5.65	5.68
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20/1/2017	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11:50		Middle	1.5	19.80	19.80	19.8	8.10	8.10	8.1	24.33	24.33	24.3	54.9	54.9	54.9	4.34	4.33	4.34
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23/1/2017	14:07	Fine	Surface	1.0	19.50	19.50	19.5	8.14	8.14	8.1	29.88	29.88	29.9	72.4	73.9	73.2	5.58	5.69	5.64
	-		Middle	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14:05		Bottom	3.0	19.20	19.20	19.2	8.15	8.15	8.2	30.18	30.18	30.2	79.7	80.9	80.3	6.15	6.24	6.20
25/1/2017	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15:35		Middle	1.0	19.90	19.90	19.9	8.17	8.17	8.2	27.11	27.11	27.1	70.6	71.8	71.2	5.47	5.54	5.51
	-		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 Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO		
			m		°C			-			ppt			%			mg/L		
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average
28/12/2016	17:20	Cloudy	Surface	1.0	19.90	19.90	19.9	8.29	8.20	8.2	29.05	29.05	29.1	84.3	82.5	83.4	6.48	6.35	6.42
	-		Middle	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	17:22		Bottom	3.0	19.70	19.70	19.7	8.29	8.29	8.3	29.32	29.32	29.3	83.8	83.4	83.6	6.45	6.42	6.44
30/12/2016	17:18	Fine	Surface	1.0	19.80	19.80	19.8	8.34	8.34	8.3	29.42	29.42	29.4	85.3	83.6	84.5	6.54	6.41	6.48
	-		Middle	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	17:20		Bottom	3.0	19.70	19.70	19.7	8.34	8.34	8.3	29.58	29.58	29.6	96.8	94.9	95.9	6.65	6.52	6.59
3/1/2017	11:35	Fine	Surface	1.0	20.30	20.30	20.3	8.18	8.18	8.2	27.63	27.63	27.6	70.6	69.9	70.3	5.42	5.36	5.39
	-		Middle	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11:37		Bottom	3.0	20.30	20.30	20.3	8.25	8.25	8.3	29.10	29.10	29.1	80.4	80.7	80.6	6.12	6.14	6.13
5/1/2017	14:10	Cloudy	Surface	1.0	21.20	21.20	21.2	8.25	8.26	8.3	24.74	24.74	24.7	58.2	58.5	58.4	4.47	4.49	4.48
	-		Middle	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14:12		Bottom	3.0	21.10	21.10	21.1	8.24	8.24	8.2	26.45	26.45	26.5	72.4	72.7	72.6	5.51	5.53	5.52
7/1/2017	11:17	Cloudy	Surface	1.0	21.10	21.10	21.1	8.22	8.22	8.2	28.31	28.31	28.3	75.3	74.4	74.9	5.67	5.60	5.64
	-		Middle	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11:19		Bottom	3.0	21.00	21.00	21.0	8.23	8.23	8.2	29.20	29.20	29.2	82.1	82.1	82.1	6.20	6.15	6.18
9/1/2017	14:53	Fine	Surface	1.0	21.00	21.00	21.0	8.14	8.14	8.1	28.12	28.12	28.1	64.0	63.2	63.6	4.83	4.78	4.81
	-		Middle	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14:55		Bottom	3.0	20.80	20.80	20.8	8.23	8.23	8.2	29.38	29.38	29.4	75.3	74.2	74.8	5.67	5.59	5.63
11/1/2017	16:44	Cloudy	Surface	1.0	20.20	20.00	20.1	8.34	8.34	8.3	30.22	30.22	30.2	87.0	85.9	86.5	6.62	6.54	6.58
	-		Middle	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	16:45		Bottom	3.0	20.10	20.10	20.1	8.32	8.32	8.3	30.24	30.24	30.2	79.9	80.3	80.1	5.99	6.03	6.01
13/1/2017	17:15	Rainy	Surface	1.0	19.10	19.10	19.1	8.17	8.17	8.2	25.69	25.60	25.6	65.6	65.8	65.7	5.51	5.23	5.37
	-		Middle	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	17:17		Bottom	3.0	19.10	19.10	19.1	8.30	8.30	8.3	29.13	29.13	29.1	77.6	78.5	78.1	6.05	6.11	6.08
16/1/2017	10:55	Cloudy	Surface	1.0	19.10	19.10	19.1	8.24	8.24	8.2	28.04	28.04	28.0	72.1	71.7	71.9	5.65	5.63	5.64
	-		Middle	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	10:57		Bottom	3.0	18.80	18.80	18.8	8.30	8.30	8.3	29.59	29.59	29.6	82.9	82.9	82.9	6.47	6.47	6.47
18/1/2017	11:42	Cloudy	Surface	1.0	19.60	19.60	19.6	8.22	8.22	8.2	27.02	27.02	27.0	70.7	70.3	70.5	5.52	5.48	5.50
	-		Middle	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11:44		Bottom	3.0	19.50	19.50	19.5	8.26	8.26	8.3	28.25	28.25	28.3	82.3	82.5	82.4	6.39	6.41	6.40
20/1/2017	11:45	Fine	Surface	1.0	20.20	20.20	20.2	8.20	8.21	8.2	23.19	23.25	23.2	40.7	40.3	40.5	3.14	3.10	3.12
	-		Middle	2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11:47		Bottom	4.0	19.90	20.00	20.0	8.05	8.05	8.1	27.67	27.65	27.7	59.9	59.5	59.7	4.50	4.46	4.48
23/1/2017	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14:15		Middle	1.0	19.30	19.30	19.3	8.11	8.11	8.1	28.48	28.48	28.5	73.3	72.3	72.8	5.71	5.63	5.67
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25/1/2017	15:27	Fine	Surface	1.0	20.10	20.10	20.1	8.26	8.26	8.3	25.09	25.09	25.1	69.3	69.7	69.5	5.42	5.44	5.43
	-		Middle	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15:25		Bottom	3.0	19.90	19.90	19.9	8.17	8.17	8.2	28.85	28.85	28.9	84.8	85.1	85.0	6.49	6.62	6.56

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

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO		
			m		°C			-			ppt			%			mg/L		
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average
29/12/2016	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	23:40		Middle	1.0	17.90	17.90	17.9	8.07	8.07	8.1	24.44	24.44	24.4	59.6	58.8	59.2	4.85	4.79	4.82
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31/12/2016	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0:45		Middle	1.0	18.40	18.40	18.4	7.91	7.91	7.9	24.15	25.15	24.7	66.0	65.2	65.6	5.19	5.13	5.16
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3/1/2017	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2:28		Middle	1.0	19.70	19.70	19.7	7.70	7.71	7.7	22.90	22.90	22.9	68.4	67.9	68.2	5.22	5.16	5.19
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5/1/2017	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2:18		Middle	1.5	20.30	20.30	20.3	7.89	7.89	7.9	25.19	25.19	25.2	43.3	43.7	43.5	3.37	3.40	3.39
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7/1/2017	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4:50		Middle	1.5	20.60	20.60	20.6	7.89	7.89	7.9	23.34	23.35	23.3	56.7	57.7	57.2	4.41	4.49	4.45
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9/1/2017	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	22:52		Middle	1.5	20.10	20.10	20.1	7.84	7.84	7.8	27.93	27.99	28.0	45.1	45.5	45.3	3.46	3.49	3.48
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11/1/2017	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	23:16		Middle	1.5	20.20	20.20	20.2	8.15	8.15	8.2	27.46	27.46	27.5	61.6	61.1	61.4	4.65	4.61	4.63
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14/1/2017	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3:00		Middle	1.0	18.90	18.90	18.9	8.09	8.09	8.1	24.78	24.78	24.8	59.1	58.2	58.7	4.69	4.61	4.65
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16/1/2017	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2:21		Middle	1.5	17.70	17.70	17.7	7.94	7.92	7.9	25.77	25.77	25.8	59.9	59.4	59.7	4.76	4.73	4.75
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18/1/2017	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2:21		Middle	1.5	19.00	19.00	19.0	8.22	8.22	8.2	22.42	22.42	22.4	62.0	61.9	62.0	4.81	4.80	4.81
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20/1/2017	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3:15		Middle	1.5	18.80	18.80	18.8	8.17	8.17	8.2	22.29	22.29	22.3	63.8	63.4	63.6	4.95	4.92	4.94
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23/1/2017	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	23:35		Middle	1.5	18.70	18.70	18.7	7.90	7.90	7.9	27.42	27.42	27.4	67.0	66.9	67.0	5.42	5.40	5.41
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25/1/2017	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	22:47		Middle	1.5	18.40	18.40	18.4	8.13	8.13	8.1	26.70	26.70	26.7	40.4	40.5	40.5	3.23	3.24	3.24
	-		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-Ebb Tide

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO		
			m		°C			-			ppt			%			mg/L		
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average
29/12/2016	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1:32		Middle	1.0	17.80	17.80	17.8	8.13	8.13	8.1	28.20	28.20	28.2	64.8	64.4	64.6	5.25	5.23	5.24
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31/12/2016	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3:07		Middle	1.5	18.40	18.40	18.4	8.25	8.25	8.3	20.30	20.30	20.3	47.4	47.7	47.6	3.95	3.97	3.96
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3/1/2017	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3:55		Middle	1.5	19.60	19.60	19.6	7.75	7.75	7.8	25.41	25.41	25.4	53.1	53.2	53.2	4.19	4.20	4.20
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5/1/2017	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3:47		Middle	1.5	20.20	20.20	20.2	8.00	8.00	8.0	26.49	26.49	26.5	54.6	54.9	54.8	4.23	4.26	4.25
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7/1/2017	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	7:25		Middle	1.5	20.50	20.50	20.5	7.89	7.89	7.9	25.24	25.24	25.2	61.2	61.5	61.4	4.75	4.78	4.77
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9/1/2017	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	22:25		Middle	1.5	20.10	20.10	20.1	8.11	8.11	8.1	23.54	23.54	23.5	66.4	65.6	66.0	5.04	4.98	5.01
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11/1/2017	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0:26		Middle	1.5	20.00	20.00	20.0	8.15	8.15	8.2	23.59	23.59	23.6	64.4	64.1	64.3	4.86	4.84	4.85
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14/1/2017	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	23:50		Middle	1.5	18.30	18.30	18.3	8.10	8.10	8.1	28.80	28.80	28.8	62.3	61.7	62.0	4.91	4.88	4.90
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16/1/2017	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4:17		Middle	1.5	17.90	17.90	17.9	8.08	8.08	8.1	23.68	23.68	23.7	62.6	62.0	62.3	4.98	4.92	4.95
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18/1/2017	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4:15		Middle	1.5	18.90	18.90	18.9	8.05	8.05	8.1	25.32	25.32	25.3	66.0	64.9	65.5	5.12	4.99	5.06
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20/1/2017	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	5:07		Middle	1.0	18.70	18.70	18.7	8.00	8.00	8.0	25.47	25.47	25.5	65.3	67.3	66.3	5.10	5.23	5.17
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23/1/2017	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	23:13		Middle	1.0	18.60	18.60	18.6	7.77	7.77	7.8	25.68	25.68	25.7	56.1	55.9	56.0	4.59	4.56	4.58
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25/1/2017	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0:21		Middle	1.0	18.30	18.30	18.3	8.02	8.02	8.0	26.41	26.41	26.4	56.0	56.3	56.2	4.50	4.51	4.51
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

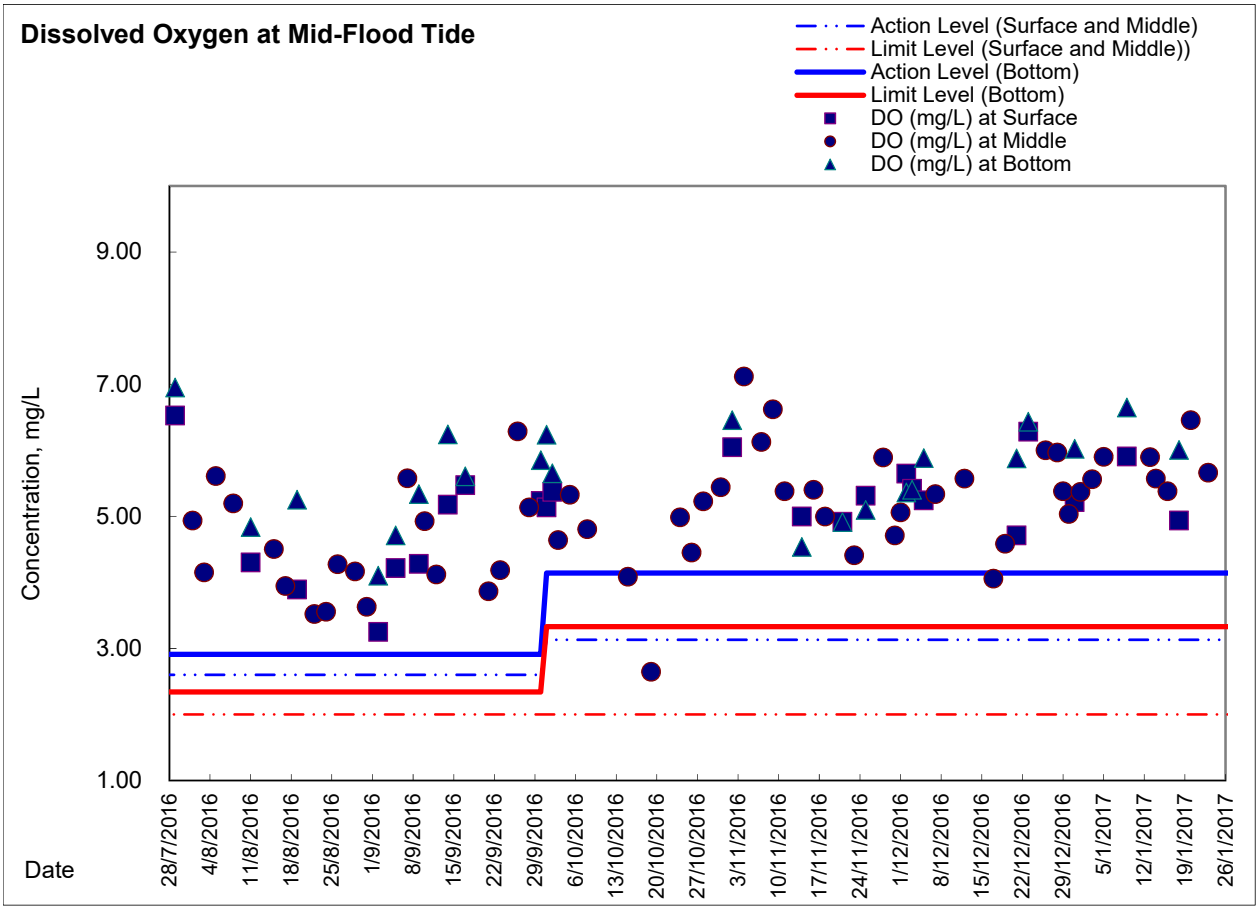
Remarks:
Single underline denotes exceedance over Action Level.
Double underline denotes exceedance over Limit Level.

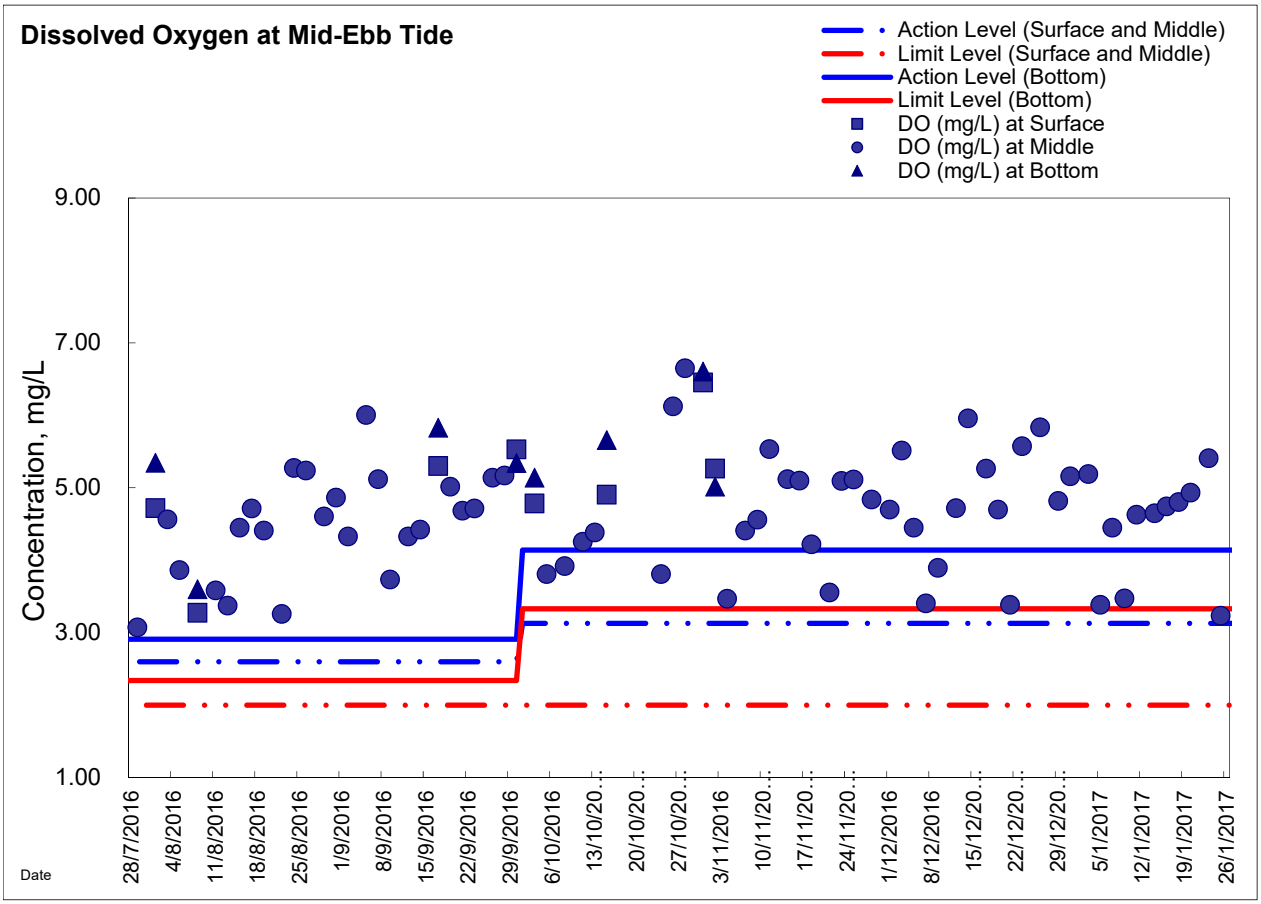
Water Monitoring Result at Ex-WPCWA SE - South-eastern corners of ex-Public Cargo Works Area
Mid-Ebb Tide

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO		
			m		°C			-			ppt			%			mg/L		
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average
29/12/2016	1:37	Cloudy	Surface	1.0	17.80	17.80	17.8	8.11	8.11	8.1	28.27	28.27	28.3	63.7	64.1	63.9	5.16	6.20	5.68
	-		Middle	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1:38		Bottom	3.0	17.80	17.80	17.8	8.08	8.08	8.1	28.27	28.27	28.3	66.3	66.5	66.4	5.39	5.41	5.40
31/12/2016	3:11	Cloudy	Surface	1.0	18.30	18.30	18.3	8.19	8.19	8.2	20.27	20.27	20.3	69.5	68.8	69.2	5.47	5.41	5.44
	-		Middle	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3:12		Bottom	3.0	18.30	18.30	18.3	8.13	8.13	8.1	20.27	20.27	20.3	74.7	73.7	74.2	5.87	5.79	5.83
3/1/2017	4:00	Fine	Surface	1.0	19.60	19.60	19.6	7.70	7.70	7.7	25.40	25.40	25.4	55.2	55.3	55.3	4.35	4.37	4.36
	-		Middle	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4:01		Bottom	3.0	19.60	19.60	19.6	7.70	7.70	7.7	25.41	25.41	25.4	73.3	72.7	73.0	5.60	5.56	5.58
5/1/2017	3:52	Cloudy	Surface	1.0	20.20	20.20	20.2	7.96	7.96	8.0	26.48	26.48	26.5	57.4	57.6	57.5	4.43	4.45	4.44
	-		Middle	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3:53		Bottom	3.0	20.30	20.30	20.3	7.94	7.94	7.9	26.48	26.48	26.5	73.4	72.3	72.9	5.55	5.47	5.51
7/1/2017	7:30	Cloudy	Surface	1.0	20.40	20.40	20.4	7.90	7.90	7.9	25.28	25.28	25.3	67.7	66.2	67.0	5.08	4.98	5.03
	-		Middle	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	7:31		Bottom	3.0	20.50	20.50	20.5	7.89	7.89	7.9	25.25	25.25	25.3	73.3	73.7	73.5	5.46	5.53	5.50
9/1/2017	22:30	Cloudy	Surface	1.0	20.20	20.20	20.2	8.03	8.03	8.0	23.57	23.57	23.6	67.8	67.6	67.7	5.16	5.14	5.15
	-		Middle	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	22:31		Bottom	3.0	20.20	20.20	20.2	8.00	8.00	8.0	23.57	23.57	23.6	71.5	71.0	71.3	5.44	5.41	5.43
11/1/2017	0:30	Cloudy	Surface	1.0	20.00	20.00	20.0	8.12	8.12	8.1	23.59	23.59	23.6	64.4	64.1	64.3	4.86	4.84	4.85
	-		Middle	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0:31		Bottom	3.0	20.10	20.10	20.1	8.10	8.10	8.1	23.59	23.59	23.6	73.6	72.4	73.0	5.56	5.45	5.51
14/1/2017	23:55	Cloudy	Surface	1.0	18.30	18.30	18.3	8.05	8.05	8.1	28.83	28.83	28.8	62.9	63.1	63.0	4.98	5.00	4.99
	-		Middle	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	23:56		Bottom	3.0	18.20	18.20	18.2	8.03	8.03	8.0	28.83	28.83	28.8	72.2	72.8	72.5	5.64	5.69	5.67
16/1/2017	4:22	Cloudy	Surface	1.0	17.80	17.80	17.8	8.03	8.03	8.0	23.69	23.69	23.7	65.8	65.2	65.5	5.28	5.22	5.25
	-		Middle	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4:23		Bottom	3.0	17.80	17.80	17.8	8.01	8.01	8.0	23.69	23.69	23.7	69.1	70.9	70.0	5.49	5.63	5.56
18/1/2017	4:20	Cloudy	Surface	1.0	19.00	19.00	19.0	8.03	8.03	8.0	25.34	25.34	25.3	68.8	68.0	68.4	5.34	5.28	5.31
	-		Middle	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4:21		Bottom	3.0	19.00	19.00	19.0	8.01	8.01	8.0	25.34	25.34	25.3	72.2	72.9	72.6	5.60	5.65	5.63
20/1/2017	5:12	Cloudy	Surface	1.0	18.70	18.70	18.7	7.98	7.98	8.0	25.46	25.46	25.5	72.5	71.2	71.9	5.64	5.54	5.59
	-		Middle	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	5:13		Bottom	3.0	18.80	18.80	18.8	7.97	7.97	8.0	25.45	25.45	25.5	70.2	70.0	70.1	5.46	5.44	5.45
23/1/2017	23:07	Cloudy	Surface	1.0	18.60	18.60	18.6	7.74	7.74	7.7	25.69	25.69	25.7	66.0	65.4	65.7	5.31	5.26	5.29
	-		Middle	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	23:08		Bottom	3.0	18.60	18.60	18.6	7.74	7.74	7.7	25.69	25.69	25.7	69.6	69.5	69.6	5.60	5.58	5.59
25/1/2017	0:27	Fine	Surface	1.0	18.40	18.40	18.4	8.01	8.01	8.0	26.43	26.43	26.4	58.1	57.8	58.0	4.65	4.63	4.64
	-		Middle	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0:28		Bottom	3.0	18.40	18.40	18.4	8.01	8.01	8.0	26.43	26.43	26.4	71.1	71.8	71.5	5.55	5.59	5.57

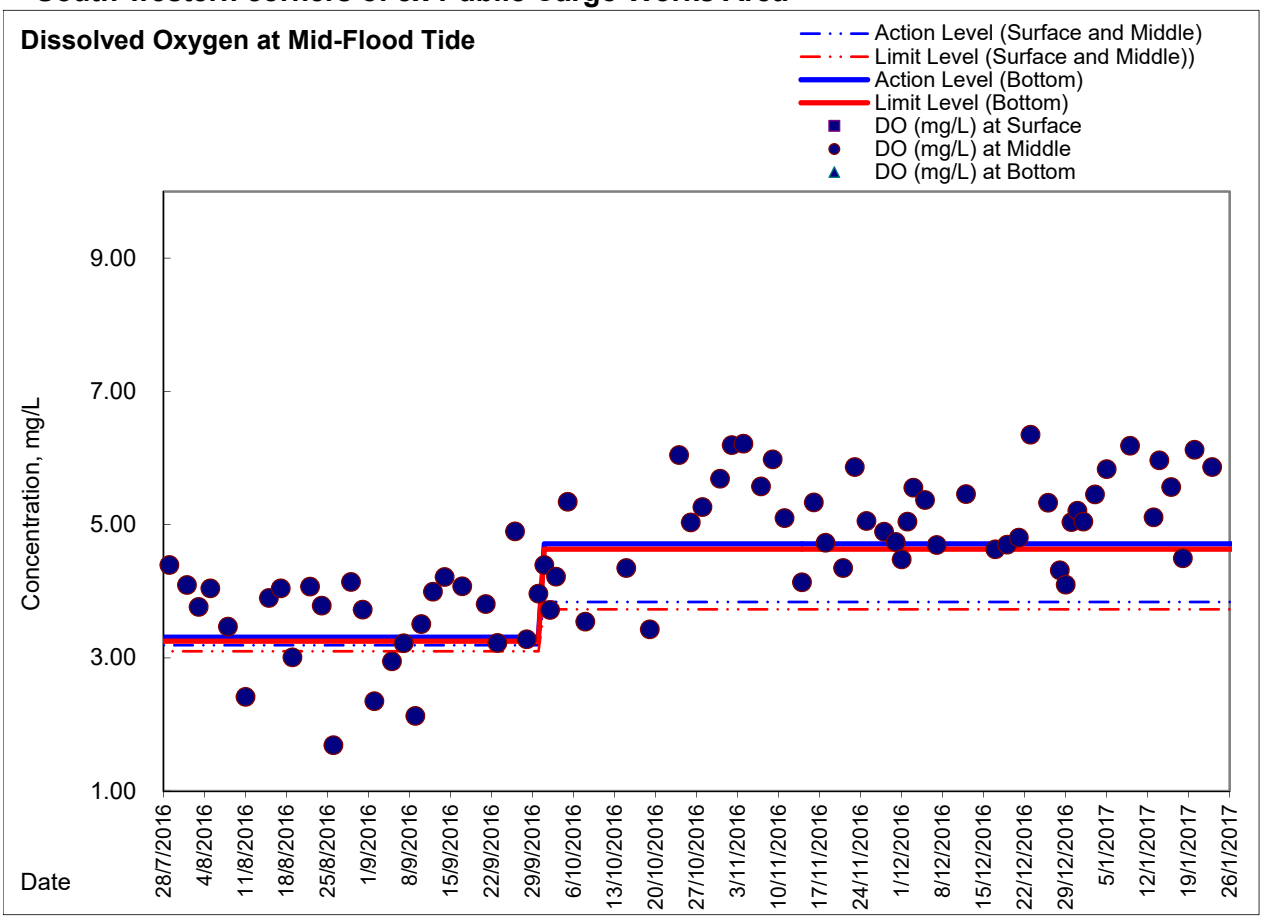
Remarks:
Single underline denotes exceedance over Action Level.
Double underline denotes exceedance over Limit Level.

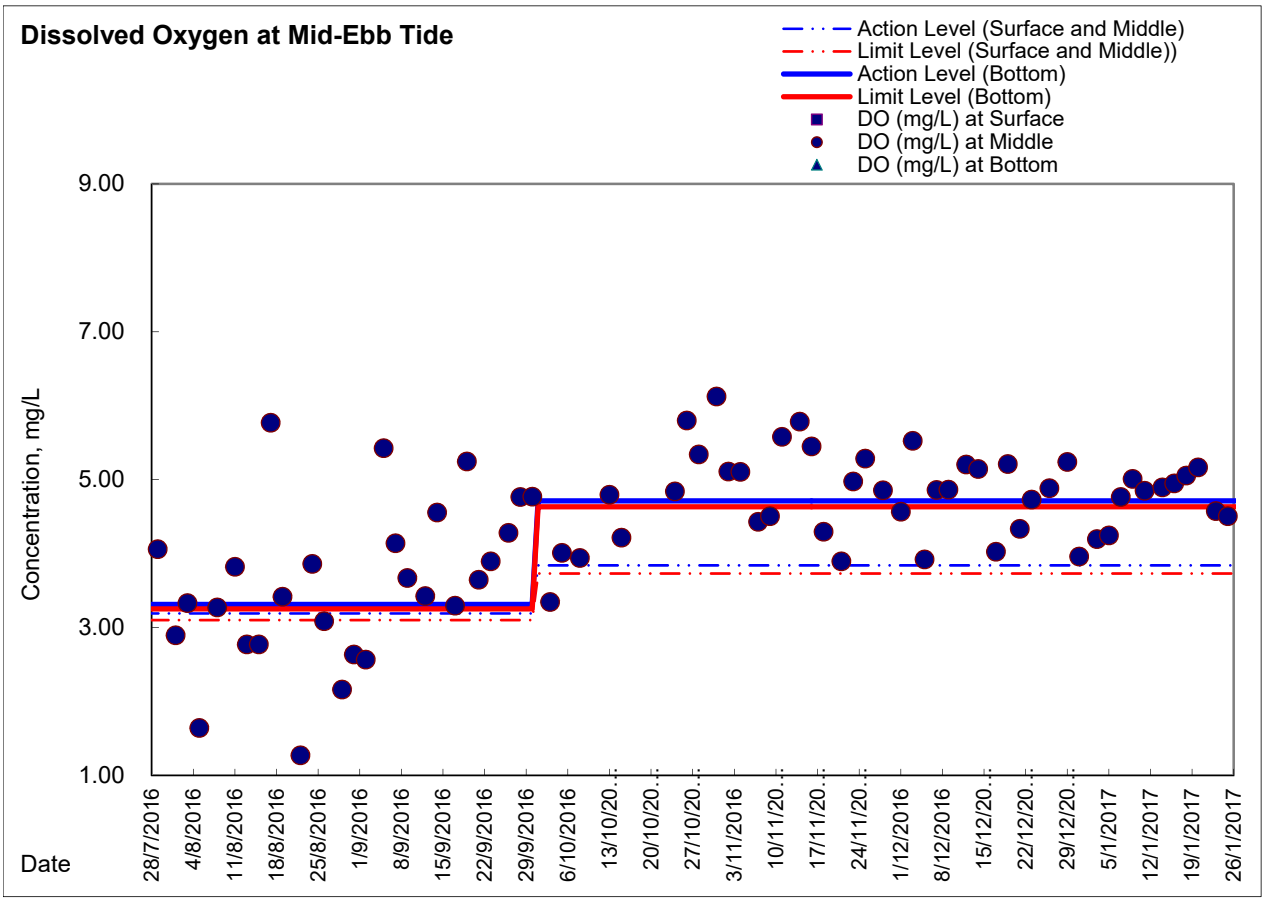
Graphic Presentation of Enhanced Water Monitoring Results (DO) at C6 - Excelsior Hotel



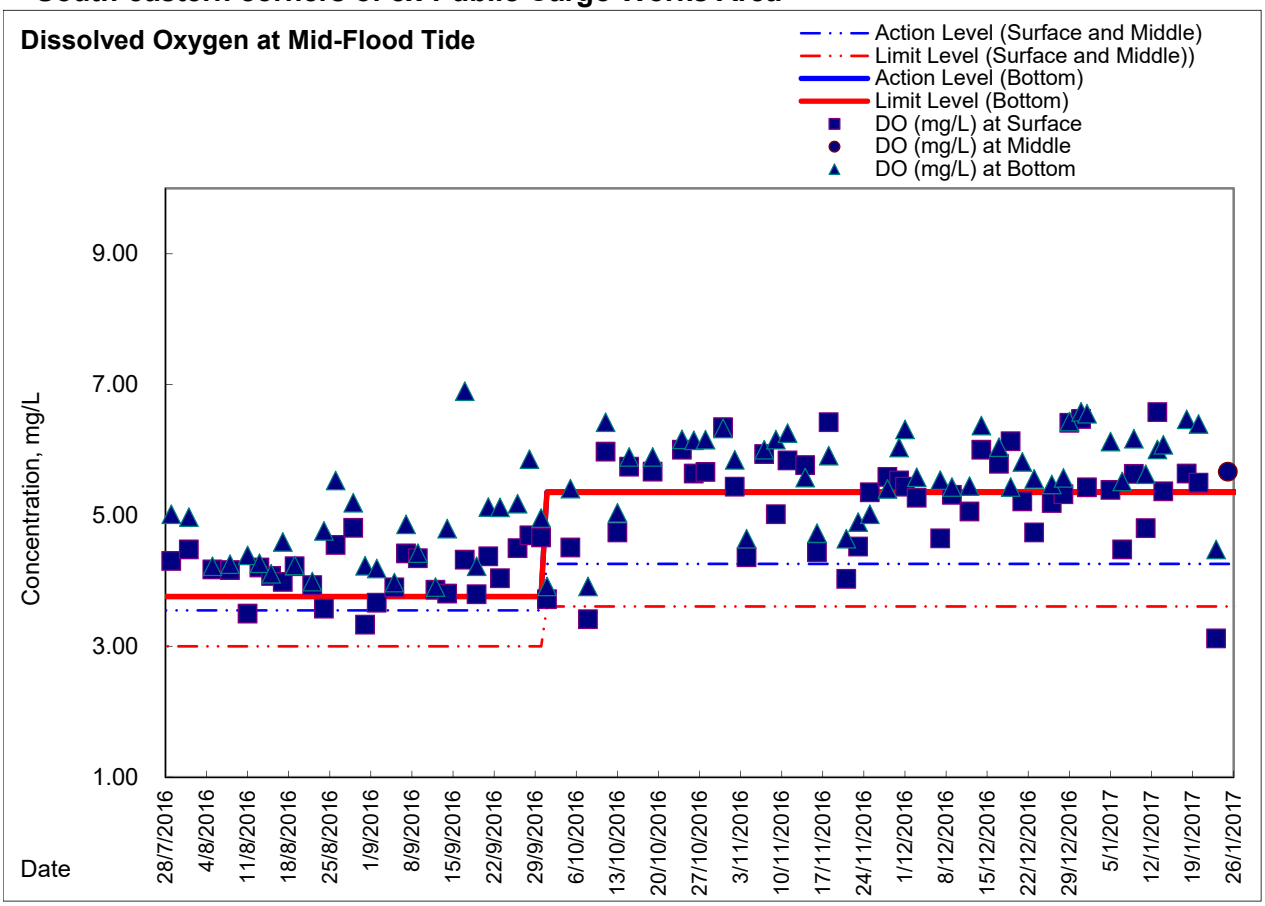


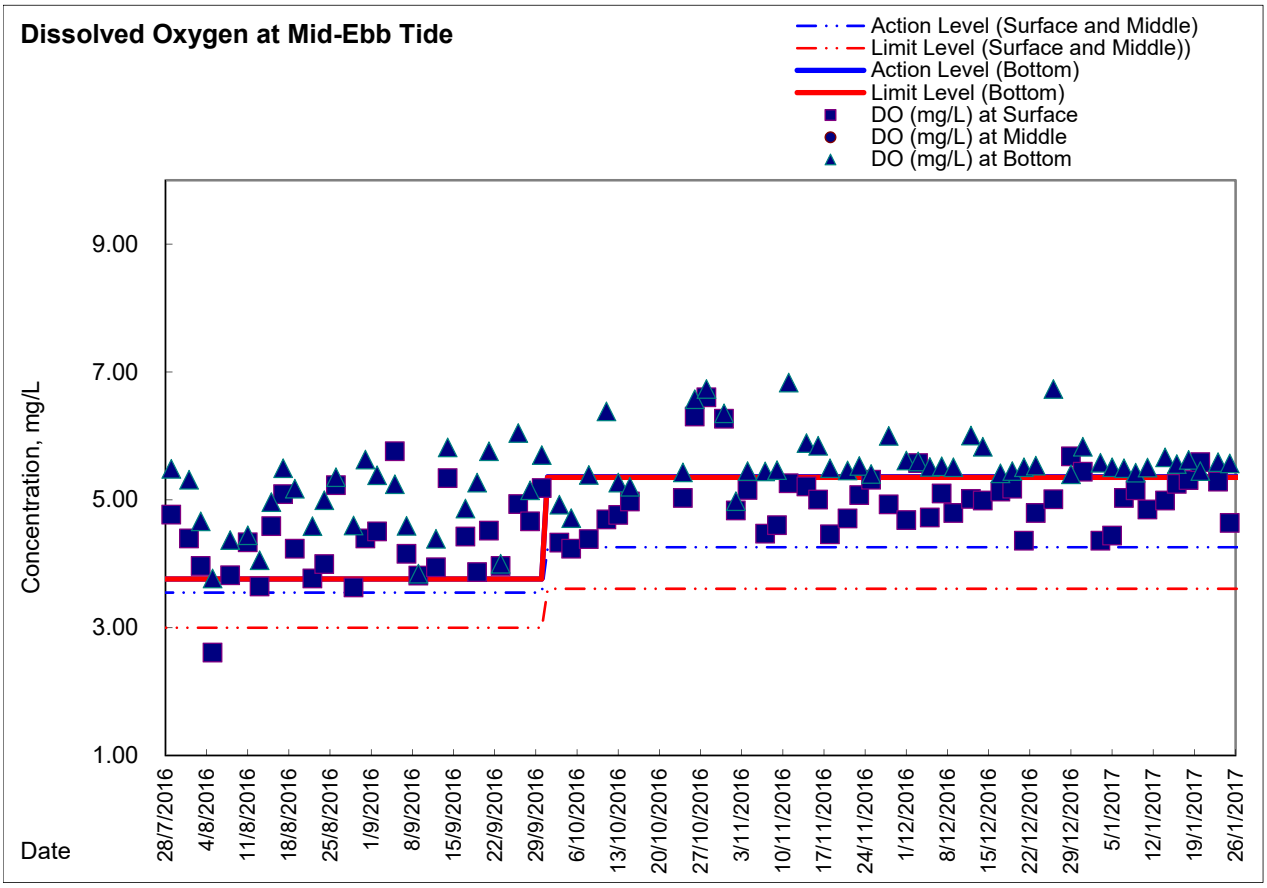
Graphic Presentation of Enhanced Water Monitoring Results (DO) at Ex-WPCWA SW - South-western corners of ex-Public Cargo Works Area





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	ACTION			
	ET	**IEC**	**ER**	**CONTRACTOR**
Action Level being exceeded	1. Notify ER, IEC and Contractor; 2. Carry out investigation; 3. Report the results of investigation to the IEC, ER and Contractor; 4. Discuss with the IEC and Contractor on remedial measures required; 5. Increase monitoring frequency to check mitigation effectiveness. (The above actions should be taken within 2 working days after the exceedance is identified)	1. Review the investigation results submitted by the ET; 2. Review the proposed remedial measures by the Contractor and advise the ER accordingly; 3. 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)	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented; 4. Supervise the implementation of remedial measures. (The above actions should be taken within 2 working days after the exceedance is identified)	1. Submit noise mitigation proposals to IEC and ER; 2. Implement noise mitigation proposals. (The above actions should be taken within 2 working days after the exceedance is identified)

EVENT	ACTION			
	ET	**IEC**	**ER**	**CONTRACTOR**
Limit Level being exceeded	1. Inform IEC, ER, Contractor and EPD; 2. Repeat measurements to confirm findings; 3. Increase monitoring frequency; 4. 4. Identify source and investigate the cause of exceedance; 5. 5. Carry out analysis of Contractor's working procedures; 6. 6. Discuss with the IEC, Contractor and ER on remedial measures required; 7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; 8. If exceedance stops, cease additional monitoring. (The above actions should be taken within 2 working days after the exceedance is identified)	1. Discuss amongst ER, ET, and Contractor on the potential remedial actions; 2. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly. (The above actions should be taken within 2 working days after the exceedance is identified)	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented; 4. Supervise the implementation of remedial measures; 5. 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)	1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC and ER within 3 working days of notification; 3. Implement the agreed proposals; 4. Submit further proposal if problem still not under control; 5. 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			
	ET	IEC	ER	CONTRACTOR
ACTION LEVEL				
1. Exceedance for one sample	1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Inform IEC and ER; 3. Repeat measurement to confirm finding; 4. Increase monitoring frequency to daily. (The above actions should be taken within 2 working days after the exceedance is identified)	1. Check monitoring data submitted by ET; 2. Check Contractor's working method. (The above actions should be taken within 2 working days after the exceedance is identified)	1. Notify Contractor. (The above actions should be taken within 2 working days after the exceedance is identified)	1. Rectify any unacceptable practice; 2. 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	1. Identify source; 2. Inform IEC and ER; 3. Advise the ER on the effectiveness of the proposed remedial measures; 4. Repeat measurements to confirm findings; 5. Increase monitoring frequency to daily; 6. Discuss with IEC and Contractor on remedial actions required; 7. If exceedance continues, arrange meeting with IEC and ER; 8. If exceedance stops, cease additional monitoring. (The above actions should be taken within 2 working days after the exceedance is identified)	1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss with ET and Contractor on possible remedial measures; 4. Advise the ET on the effectiveness of the proposed remedial measures; 5. Supervise Implementation of remedial measures. (The above actions should be taken within 2 working days after the exceedance is identified)	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Ensure remedial measures properly implemented. (The above actions should be taken within 2 working days after the exceedance is identified)	1. Submit proposals for remedial to ER within 3 working days of notification; 2. Implement the agreed proposals; 3. 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	1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Inform ER, Contractor and EPD; 3. Repeat measurement to confirm finding; 4. Increase monitoring frequency to daily; 5. 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)	1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss with ET and Contractor on possible remedial measures; 4. Advise the ER on the effectiveness of the proposed remedial measures; 5. Supervise implementation of remedial measures. (The above actions should be taken within 2 working days after the exceedance is identified)	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Ensure remedial measures properly implemented. (The above actions should be taken within 2 working days after the exceedance is identified)	1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within 3 working days of notification; 3. Implement the agreed proposals; 4. 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	1. Notify IEC, ER, Contractor and EPD; 2. Identify source; 3. Repeat measurement to confirm findings; 4. Increase monitoring frequency to daily; 5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; 6. Arrange meeting with IEC and ER to discuss the remedial actions to be taken; 7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; 8. If exceedance stops, cease additional monitoring. (The above actions should be taken within 2 working days after the exceedance is identified)	1. Discuss amongst ER, ET, and Contractor on the potential remedial actions; 2. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; 3. Supervise the implementation of remedial measures.	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented; 4. Ensure remedial measures properly implemented; 5. 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)	1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within 3 working days of notification; 3. Implement the agreed proposals; 4. Resubmit proposals if problem still not under control; 5. 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	1. Identify source/reason of exceedance; 2. Repeat odour patrol to confirm finding.	1. Carry out investigation to identify the source/reason of exceedance; 2. Rectify any unacceptable practice 3. Implement more mitigation measures if necessary; 4. Inform EPD or MD if exceedance is considered to be caused by expedient connections or floating debris.
Limit Level		
Exceedance of Limit Level	1. Identify source / reason of exceedance; 2. Repeat odour patrol to confirm findings; 3. Increase odour patrol frequency; 4. If exceedance stops, cease additional odour patrol.	1. Carry out investigation to identify the source/reason of exceedance. Investigation shall be completed within 2 weeks; 2. Rectify any unacceptable practice; 3. Formulate remedial actions; 4. Ensure remedial actions properly implemented; 5. If exceedance continues, consider what more/enhanced mitigation measures shall be implemented; 6. 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_16A021	9-Jan-17	8:00	CMA5b- Pedestrian Plaza	**208.4**	24 hr TSP (ug/m^3)	181.0	260	**Possible reason:** **Action taken / to be taken:** **Remarks / Other Obs:**	Elevated TSP level potentially in relate to local ambient condition and smog was observed across the monitoring period. 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 for MVB were undertaken on the monitoring date at around Pedestrian Plaza under Contractor of HK/2012/08, dust suppression measure including haul road maintained in dampened condition was implemented and no particular air quality impact from construction activity was observed during sampling while smog was reported observed across the monitoring period. In view of the above, the action level exceedance was considered to be non-project related and contributed by local ambient condition. 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_16A022	9-Jan-17	8:00	CMA5b- Pedestrian Plaza	**208.4**	24 hr TSP (ug/m^3)	181.0	260	**Possible reason:** **Action taken / to be taken:** **Remarks / Other Obs:**	Elevated TSP level potentially in relate to local ambient condition and smog was observed across the monitoring period. Reviewed the trend of air quality measurement across monitoring stations. Reviewed Contractor's working procedures. No construction works was undertaken on the monitoring date at around Pedestrian Plaza under Contractor of HK/2009/01 and no particular air quality impact from construction activity was observed during sampling while smog was reported observed across the monitoring period In view of the above, the action level exceedance was considered to be non-project related and contributed by local ambient condition. 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 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_16A023	20-Jan-17	8:00	CMA5b- Pedestrian Plaza	**215.1**	24 hr TSP (ug/m^3)	181.0	260	**Possible reason:** **Action taken / to be taken:** **Remarks / Other Obs:**	Elevated TSP level potentially in relate to other sources affecting local ambient condition such as road traffic next to the monitoring station Reviewed the trend of air quality measurement across monitoring stations. Analysis of contractor's working procedures. No construction works 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_16A024	20-Jan-17	8:00	CMA5b- Pedestrian Plaza	**215.1**	24 hr TSP (ug/m^3)	181.0	260	**Possible reason:** **Action taken / to be taken:** **Remarks / Other Obs:**	Elevated TSP level potentially in relate to other sources affecting local ambient condition such as road traffic next to the monitoring station 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. Despite formwork erection and rebar fixing were undertaken on the monitoring date at around Pedestrian Plaza under Contractor of HK/2012/08, dust suppression measure including haul road maintained in dampened condition 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.

Ref. No.	Date	Time	Location	Construction Noise Level, dB(A)	Parameter	Action Level	Limit Level dB(A)	Follow-up action	
X_16N059	24-Jan-17	10:25	M6 - HK Baptist Church Henrietta Secondary School	68	Leq(30min)	when one documented complaint was received.	65	Possible reason: Action taken / to be taken: Remarks / Other Obs:	Traffic nearby was observed during monitoring and was considered as the major noise contribution. Repeated measurement to confirm result and reviewed the trend of noise measurement. Analysis of contractor's working procedure. Despite lifting of U-Beam by launching girder was conducted under HY/2009/19 around the monitoring location, no particular noise was considered from the construction activities and nearby traffic noise was observed as major noise source during monitoring. As such, the exceedance was considered as non-Project related.

Ref no.	Date	Tidal	Location	Parameters (Unit)	Measured	Action Level	Limit Level	Follow-up action	
X_16C064	3-Jan-17	Mid-flood	C7	DO(mg/l)	6.34	3.36	2.73	Possible reason:	Natural variation or changes of water quality in the vicinity of water abstraction location for the water quality monitoring station.
				Turbidity	11.55	9.10	10.25	Action taken/ to be taken:	Repeated the measurement to confirm the result. Checked with Contractor works and reviewed previous monitoring data.
				SS	10.00	15.00	22.13	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 on 5 January 2017 ebb tide.
X_16C065	9-Jan-17	Mid-ebb	C7	DO(mg/l)	6.10	3.36	2.73	Possible reason:	Natural variation or changes of water quality in the vicinity of water abstraction location for the water quality monitoring station.
				Turbidity	2.84	9.10	10.25	Action taken/ to be taken:	Checked with Contractor works and reviewed previous monitoring data.
				SS	16.00	15.00	22.13	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 on 11 January 2017 flood tide.
X_16C066	16-Jan-17	Mid-flood	C7	DO(mg/l)	7.04	3.36	2.73	Possible reason:	Natural variation or changes of water quality in the vicinity of water abstraction location for the water quality monitoring station.
				Turbidity	12.31	9.10	10.25	Action taken/ to be taken:	Repeated the measurement to confirm the result. Checked with Contractor works and reviewed previous monitoring data.
				SS	13.50	15.00	22.13	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 on 18 January 2017 ebb tide.

Lam Geotechnics Limited

Ref no.	Date	Tidal	Location	Parameters (Unit)	Measured	Action Level	Limit Level	Follow-up action	
X_16W077	13-Jan-17	Mid-flood	WSD19	DO(mg/l)	6.83	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of water quality monitoring station.
				Turbidity	8.89	8.04	9.49	Action taken/ to be taken:	Immediate repeated in-situ measurement to confirm the exceedances. Checked with Contractor works and reviewed previous monitoring data.
				SS	9.00	13.00	14.43	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 14 January 2017 ebb tide.

Ref no.	Date	Tidal	Location	Depth	Parameters (Unit)	Measured	Action Level	Limit Level	Follow-up action	
X_16D0057	20-Jan-17	Mid-flood	Ex-WPCWA SE	Surface	DO(mg/l)	3.12	4.26	3.61	Possible reason: Action taken/ to be taken: Remarks/ Other Obs:	Possible in relation to the nearby upstream organic discharge and associated variation of water quality within Ex-PCWA area. 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. Despite trimming works of high spot was conducted under Contract HY/2009/15 at TPCWAW on the monitoring date, contractor mitigation measures including the use of localized silt curtain was generally in order. No particular observation regarding water quality impact was observed during sampling while 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 23 January 2017 flood tide.
X_16D0058	20-Jan-17	Mid-flood	Ex-WPCWA SE	Bottom	DO(mg/l)	4.48	5.36	5.35	Possible reason: Action taken/ to be taken: Remarks/ Other Obs:	Possible in relation to the nearby upstream organic discharge and associated variation of water quality within Ex-PCWA area. 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. Despite trimming works of high spot was conducted under Contract HY/2009/15 at TPCWAW on the monitoring date, contractor mitigation measures including the use of localized silt curtain was generally in order. No particular observation regarding water quality impact was observed during sampling while 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 23 January 2017 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	Outcome	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 18th Feb. 2010 for the dredging works which carry out at area for North Point Reclamation. 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.	Closed
100321b	21/3/2010	Unknown	Near the eastern breakwater of the Causeway Bay Typhoon Shelter	A public complaint and enquiry regarding loud noises emanated from dredging activities on 21/3/2010 (Sunday) until 2220 hours and between 1920-1946 hours in the evening of 22 March 2010(Monday).	1) A valid Construction Noise Permit no. GW-RS0119-10 was granted from EPD since 18th 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. 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.	Closed

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	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.	1) 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. 2) 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. 3) 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)	Oil Street to Watson Road	Complaint on the noise nuisance due to the dredging works. Three construction plants were operated concurrently.	1) Contractor for HY/2009/11 was granted valid Construction Noise Permit no. GW-RS0371-10 for their dredging works. 2) There was only 1 grab dredger operated by Contractor within NPR project site area for dredging works. 3) 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. 4) 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) 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. 2) No noise exceedance was recorded at noise monitoring station at Victoria Centre on 10 and 17 August 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.	Closed

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	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. 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.	Closed
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	1) 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. 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.	Closed
101203	3/12/2010, 01:45a.m.	The resident of Block 11, City Garden by ICC referral from Marine Department	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. 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.	Closed
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: • It was referred to the filling operation at North Point	Closed

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. 2) 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; 3) 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; 4) The absence of the lighting shields at flood light results in visual glare to the complainant at night-time. 5) 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; 6) 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.	1) The concerned stockpile was a working stockpile under Contract HY/209/15 and was covered at night time after work. 2) 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. 3) It is considered invalid but preventive actions can be taken because the stockpile is relatively large and easily visible by complainant. 4) 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 5) 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	Outcome	Status
110419	19/04/2011	Ms Chiu at Victoria Centre at Victoria Centre by ICC (ICC# 1-272874759)	North Point	The episode of night noise on 19/4/11 and 20/4/11 at 2:50 am and the noise lasted for 30 minutes per night.	1) According to the RSS's record, there was no construction works undertaken under the EP-356/2009 during the concern time period. 2) 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. 3) It is considered as invalid complaint under this Project.	Closed
110617	9/06/2011	Mr. Law from Victoria Centre Management Office	North Point	An odour nuisance suspected generating from the discharge point – Channel T at Watson Road in part of the site area was related to CWB under Contract no. HY/2009/11	1) The complaint was received by ET on 13 Jun 2011. During the weekly site inspection on 7 and 17 June 2011, there was no any odour impact detected in the site area. 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.	Closed

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
110709	09/07/2011	Mr. Au from City Garden Management Office	North Point	A complaint letter to Contractor HY/2009/11 was raised by Cayley Property Management Limit on 9 July 2011 regarding a series of pump breakdown events at seawater intake of City Garden on 4, 6, 7 and 8 July 2011. A lot of rubbish such as plastic bags, nylon bags, nylon-wire mesh was observed sucking from the seawater intake at the seawater front of Block 7 of City Garden affecting the operation of seawater pump plant.	1) 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 2) 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. 3) 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. 4) Referring to the record provided by Cayley Property Management Limit, the trapped rubbish was unlikely generated from the construction works. It was considered that complaint is invalid and not related to project.	Closed
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. 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	Closed

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					so as to prevent recurrent by barge defect	
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 Saturday, Sunday and public holiday.	1) It was referred by AECOM to ET on 28 July 2011 2) 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. 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. 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.	Closed
110723b	23/07/2011	Ms. Yau at Block 2, Victoria Centre by ICC no. 1-304013959	North Point	Reclamation work was conducted at Causeway Bay Typhoon Shelter at 7am on 23 July 2011. She complained that the works shall be started later to minimize the noise nuisance to the vicinity of the residents in early morning	1) It was referred by AECOM to ET on 8 August 2011 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. 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.	Closed
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) It was referred by AECOM to ET on 28 July 2011 2) 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. 3) No noise exceedance was recorded at construction noise	Closed

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
				Central-Wanchai Bypass at noon rather than in morning at 7am.	monitoring station at Victoria Centre on 25 July and 4 August 2011 during daytime while breaking and excavation works were undertaken during monitoring. 4) In conclusion, it was related to the construction works under Contract HY/2009/15 and mitigation measure was provided. No further complaint from complainant was received after proposed the mitigation measure.	
110727b	27/07/2011	Ms. Chiu by ICC no.1-304615409	North Point	Noise nuisance from the excavation works for the Highways Department adjacent to the Victoria Centre was conducted from 7am	1) It was referred by AECOM to ET on 28 July 2011 2) 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. 3) As a mitigation measure to minimize the noise nuisance in the vicinity of the residents, rock breaking activities will be started at 8am.	Closed
	08/08/2011				4) However, complainant did not satisfy with the response on the noise nuisance from the rock-breaking during morning in front of Victoria Centre and then further complaint via 1823 on 7 August 2011. 5) Highways contacted the complainant on 15 August 2011 that the noisy rock breaking operation had been completed. *Remarks: There will be counted as two complaints in this 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.	1) It was referred by AECOM to ET on 17 August 2011. 2) 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. 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. 4) Contractors were advised to relocate the loose materials	Closed

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					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) Confirmed with the Resident Site Staff that the construction works were referred to the Contractor HK/2009/01. 2) The Excavator mounted breaker at Convention Avenue and Drilling rig at HKCEC1 reclamation area were the dominant construction noise source during this period. 3) The drilling rig at HKCEC1 reclamation area and excavator mounted breaker at Convention Avenue were then temporary suspended after received the complaint. 4) Investigation revealed that the erected noise barrier (4m cantilevered movable noise barrier for the drilling rig and 1m movable noise barrier for the excavator mounted breaker) were not located close to the plants to provide adequate noise screening. 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.	Closed
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. • An ad hoc inspection of the effectiveness of garbage defender was conducted with RSS (CWB project	Closed

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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) RSS notified ET to carry out investigation on 17 October 2011. 2) 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.	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	1) 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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					CNP was checked by the police officer. 2) 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.	1) RSS notified ET on 5 April 2012. 2) ET confirmed with the Resident Site Staff that no piling works were performed during the concerned period. 3) 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. 4) 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 excavations. In order to minimize the noise generated	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.	1) RSS notified ET on 8 March 2013 2) 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. 3) 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.	1) WSII RSS team notified ET on 12 June 2014; Notification letter from EPD (ref: EP/860/F2/24 Annex IV) was received by ET on 13 June 2014. 2) ET confirmed with RSS that neither marine construction works nor barge operation was conducted at the concerned location during the time of complaint. With respect to the complaint case, muddy dispersion was observed at HKCEC2W works area on 12 June 2014, and	Closed

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					the dispersion was observed partly extended beyond the outermost layer silt curtain at 1000hrs. Immediate follow up action was requested. 3) It is considered that Contractor's mitigation measures would require further review on the effectiveness to avoid seepage of muddy dispersion such as regular diver inspection check and daily visual checking of silt curtains. Additional silt curtain at marine access zone was installed by Contractor on 12 June 2014 and the double layer silt curtain were generally in order. Follow-up inspection was further conducted on 16 June 2014. The Contractor's investigation report on the complaint case was submitted to EPA via email on 18 June 2014.	
140723	21/07/2014	ICC Case Ref: 2-341537112	Works area opposite to Ngan Tao Building	The complaint is regarding to construction noise impact to the complainant who could not sleep due to work and machine at the project site opposite to the Ngan Tao Building.	1) Construction noise impact referred by RSS was received by ET on 25 July 2014 2) ET confirmed with RSS that horizontal cutting and removal of D-wall at Eastern, Southern and Northern side of TS2 was undertaken by Contractor of HY/2009/15 within Causeway Bay Typhoon Shelter before 23:00hrs on 20 July 2014 that total 3 numbers of derrick lighter and 3 numbers of saw cut machine were in operation, and removal of D-wall at Panel S30A-1 of TS2 was undertaken by Contractor of HY/2009/15 within Causeway Bay Typhoon Shelter around 00:25hrs to 00:56hrs on 21 July 2014 that total 1 number of derrick lighter was in operation. 3) According to the relevant site records under Contract HY/2009/15, before 23:00hrs on 20 July 2014, horizontal cutting and removal of Diaphragm Wall at Eastern, Southern and Northern side of TS2 was conducted under HY/2009/15 within Causeway Bay Typhoon Shelter. Total 3 nos. of derrick lighter and 3 nos. of saw cut machine were in operation at the above period. From around 00:25hrs to 00:56hrs on 21 July 2014, removal of D-wall at Panel S30A-1 of TS2 was undertaken by Contractor of HY/2009/15 within Causeway Bay Typhoon Shelter. Total 1 no. of derrick lighter was found operating at the above period 4) It was considered the condition of CNP GW-RS0592-14 was not fulfilled by the Contractor of HY/2009/15. "From 00:25hrs to 00:57hrs on 21 July 2014, the PME(s) (1 no. of Derrick Lighter) on-site could not follow with any given PME grouping requirement(s) as stated in condition 3.a. and condition 3.d. in no. GW-RS0592-14."	Final report (Issue1) issued on 31 July 2014. Further to complainant follow-up, Final report (Issue2) Issued on 12 Aug 2014.

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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. 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.	Interim investigation report submitted to EPD on 23 October 2014. Updated interim investigation with supplementary information submitted to EPD on 17 November 2014 EPD

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

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141110	07/11/2014	EPD Ref.: H05/RS/00027815-14 EPD complaint received by ET on 10 November 2014	Construction site at old Wan Chai Ferry Pier	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.	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). 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. 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). 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. 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.	Interim investigation report submitted to EPD on 17 November 2014. EPD advised no comment on the interim report and case closed on 1 Dec 2014.

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

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

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

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		2015	Ground	other construction plants under operation from the reclamation construction site	moored near shore and other construction plants under operation from the reclamation construction site with Contract no. HK/2009/02 at location outside Wan Chai Sports Ground caused air pollution. The complainant alleged that the said situation had been observed for a prolonged period. ET confirmed with the Resident Site Staff that reinforced bar fixing and concreting work (on 17 June 2015 only) were conducted at Portion 2 from 15 June 2015 to 19 June 2015. Total 3 nos. of mobile crane were in operation. On 17 June 2015, one no. of concrete pump truck and two nos. of concrete mixer were in operation.Excavation and Lateral Support was conducted at Portions 3 & 4 from 15 June 2015 to 19 June 2015. Total 4 nos. of excavator, 2 nos. of truck and 2 nos. of crawler crane were in operation. In addition, on 15 June 2015, 17 June 2015 and 19 June 2015, 1 no. of derrick barge was moored near Portions 3 & 4 for transportation of the excavated material away from site. According to the relevant site records under Contract HK/2009/02, from 15 June 2015 to 19 June 2015, reinforced bar fixing and concreting work (on 17 June 2015 only) were conducted at Portion 2 and total 3 nos. of mobile crane, one no. of concrete pump truck (on 17 June 2015 only) and two nos. of concrete mixer (on 17 June 2015 only) were in operation; excavation and lateral support was conducted at Portions 3 & 4 and total 4 nos. of excavator, 2 nos. of truck and 2 nos. of crawler crane were in operation. Based on relevant site record, no hopper barge was moored under Contract HK/2009/02 around the concerned location while 1 no. of derrick barge was moored under Contract HK/2009/02 near Portions 3 & 4 for transportation of the excavated material from Portions 3 & 4 away from site on 15 June 2015,17 June 2015 and 19 June 2015 respectively. Follow-up inspection was conducted during weekly	advised no comment on 20 July 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
					environmental inspection on 25 June 2015, no dark smoke and malodour emission was observed from the PMEs operating on-site. A derrick barge was observed moored near Portions 3 & 4 and excavated material was transferred to the derrick barge by the excavators on land without barge operation and no particular dark smoke and malodour emission was observed. Nevertheless, the Contractor was reminded to conduct regular checking on the condition of the derrick barge and other PMEs deployed on site to ensure only well maintained PMEs are used to avoid potential dark smoke and maldour emission affecting nearby public.	
150723	20 July 2015	EPD Ref.:H05/RS/ 00018040-15 dated 23 July 2015	Ex-Wanchai Ferry Pier near 720 & & 722 Bus stop	Malodour from marine sediment	A public complaint regarding malodour referred by EPD was received by ET on 23 July 2015 (EPD Ref.: H05/RS/00018040-15 dated 23 July 2015). The complainant reported that malodour from marine sediment was scented at ex-Wanchai ferry pier near route 720 & 722 bus stop. (Contract HK/2009/02). ET confirmed with the Resident Site Staff that Rockfill placing works was conducted by one derrick barge at the concerned location (WCR3) under Contract HK/2009/02 on 20 July 2015. No marine sediment was stored or placed on site at the concerned location under Contract HK/2009/02 on 20 July 2015. According to the relevant site records under Contract HK/2009/02, rockfill placing works was conducted by one derrick barge at WCR3 area on 20 July 2015 and no marine sediment was stored or placed on site at the concerned location on the concerned date. Follow-up inspection was conducted during weekly environmental inspection on 29 July 2015. No marine sediment was observed stored or placed at the concerned location while it was noted that a culvert outfall with potential odour concern is located adjacent to the concerned location.	Interim report submitted to EPD on 30 July 2015. EPD advised no comment on 17 August 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
					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/00022241-15 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 hopper	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/00022385-15 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. 2nd interim report submitted to EPD on 17 Dec 2015 3rd 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. Based on the relevant site records, from 0800 hrs to 1800 hrs on 30 August 2015, removal of scaffold and timber and installation of bulkhead was undertaken by the Contractor of HK/2012/08 at the concerned location. Total one generator and one circular saw were in operation and the relevant Construction Noise Permit GW-RS0296-15 for the concerned operation was confirmed in place. From 1900hrs on 30 August 2015 to 0700 on 31 August 2015, no construction works was undertaken by the Contractor of HK/2012/08 at the concerned location and from 1900hrs on 31 August 2015 to 0700hrs on 01 September 2015, no construction works was undertaken by the Contractor of HK/2012/08 at the concerned location. From 1900hrs to 2115 hrs on 01 September 2015, unloading of soil was undertaken by the Contractor of HK/2012/08 at the concerned location. Total one derrick barge was in operation and the Construction Noise Permit GW-RS0296-15 for the concerned operation was confirmed in place.	

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

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
		received by ET on 17 September 2015	Central & Wan Chai, Hong Kong)	Chai, Hong Kong)	seawall block removal works. According to relevant record, muddy dispersion at HKCEC2W (area opposite to Lung King Street) was observed by the Environmental Team on 14 September 2015 afternoon. The muddy patch was observed dispersing outside the outer layer silt curtain deployed by the Contractor of HK/2012/08 towards the Central Reclamation Phase III area while the outer layer silt curtain was observed partially opened. 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.	September 2015. EPD advised no comment on 14 October 2015 and case closed.
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. 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	HyD will consolidate all input from relevant parties to form a reply to ICC.

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/00027330-15 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/00029126-15)	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 (HK201208)	13 April 2016	A public complaint referred by EPD was received by ET on 13 April 2016 (EPD Ref.: H05/RS/00008367-16 dated 13 April 2016)	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 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. Protection measure including provision of sandbag bunding along the side of the landing barge was implemented by the Contractor of HK/2012/08. 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	Interim investigation report was submitted to the EPD on 21 April 2016. EPD advised no further comment on 6 June 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
					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.	EPD advised no further comment on 20 September 2016 on the interim report submitted and case closed.

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
160825	25 August 2016	A public complaint referred by EPD was received by ET on 25 August 2016 (Case Ref.: H08/RS/00012592-16)	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	The Interim investigation report was submitted to EPD on 2 September 2016. EPD advised no further comment on 31 October 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
					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

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

Construction Activities For Three Months Rolling

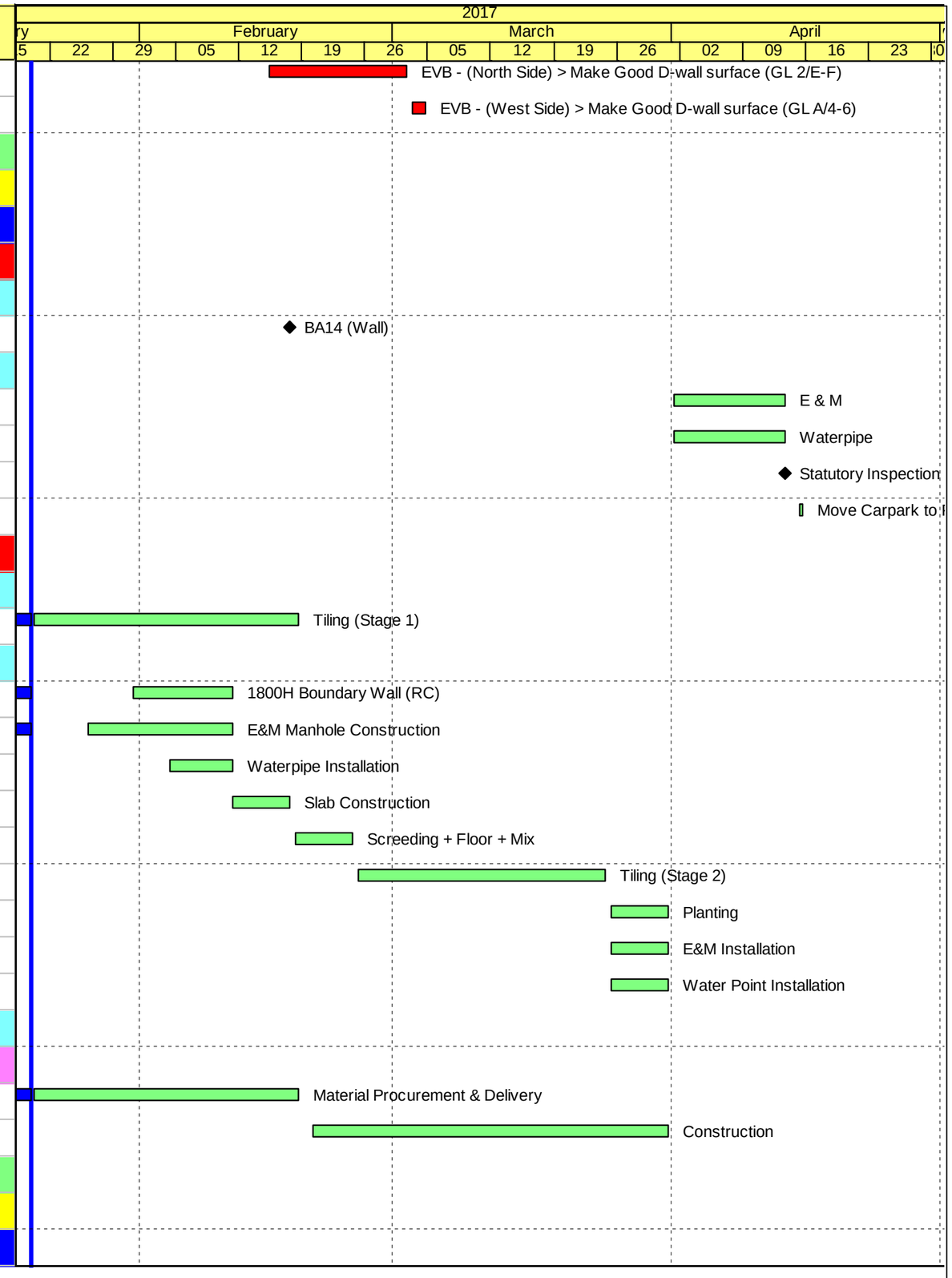
Construction Activities	Dec 2016	Jan 2017	Feb 2017	Mar 2017	Apr 2017
Reinstatement of Amenity Area					
Road and Drain Works					

Activity ID	Activity Name	Rem Dur	Start	Finish
3MRP - Jan 2017 to Apr 2017				
02 - PRE-CONSTRUCTION WORKS				
02.3 - Method Statement / Shop Drawings				
0230-1410	MS Landscape Deck Structure - ER Approval	28	20-Jan-17	16-Feb-17
0240-1280	Landscaping Design - ER Review/Resubmission	28	20-Jan-17	16-Feb-17
0240-1290	Landscaping Design - ER Approval	28	07-Dec-16 A	16-Mar-17
0240-1295	Landscaping Design - Fabrication & Delivery	28	17-Mar-17	13-Apr-17
0240-1297	Green Wall Minimum 2 years Establishment - Finish	0		20-Apr-17
0240-1298	Green Roof Minimum 2 years Establishment - Start	0	04-Feb-17	
0240-2470	MS for for trial erection of green roof - No Adverse Comment	15	30-Oct-16 A	03-Feb-17
02.5 - Bridge Segment/Beam Off-site Precasting				
0250-4015	Bridge F2B - Pier F3B Segment - 5 nos. - Mould 2	29	20-Jan-17	24-Feb-17
0250-4016	Bridge F2B - Pier F4B Segment - 7 nos. - Mould 2	23	25-Feb-17	23-Mar-17
0250-4017	Bridge F1B2 - Pier D12 Segment - 6 nos.- Mould 2	24	24-Mar-17	24-Apr-17
0250-4018	Bridge F1B2 - Pier F2B Segment - 6 nos. - Mould 2	23	25-Apr-17	22-May-17
0250-4045	Bridge F3B - Pier F6B & F7B Segment - 11 nos. - Mould 1	52	20-Jan-17*	23-Mar-17
0250-4050	Bridge F2B - Pier F4B Segment - 6 nos. - Mould 1	18	24-Mar-17	15-Apr-17
0250-4055	Bridge F1B2 - Pier F1B Segment - 6 nos. - Mould 1	20	18-Apr-17	11-May-17
0250-4100	Bridge F1B1 - Abut D12 Segment - 5 nos. - Mould 3	15	06-Mar-17*	22-Mar-17
0250-4110	Bridge F1B1 - Pier F1A Segment - 13 nos. - Mould 3	36	23-Mar-17	08-May-17
A3160	Delivery of Segments - Bridge F3B	14	11-Mar-17	27-Mar-17
A3170	Delivery of Segments - Bridge F2B	18	28-Mar-17	20-Apr-17
05 - SECTION 2 & 2A OF THE WORKS				
05.1 - Cut & Cover Tunnel Ch 4855-4932 (APS Footprint)				
05.1.6 - EVB Sub-structure & Tunnel				
05.1.7 - EVB & Tunnel Remedial Works				
A2275	EVB - Rectification of Concrete Defects to Plenum B1-07	12	20-Feb-17	04-Mar-17
A2276	EVB - Rectification of Concrete Defects to Vent Shaft B1-18	5	14-Feb-17	18-Feb-17
A2277	EVB - Rectification of Concrete Defects to Plenum B1-24 & 26	10	02-Feb-17	13-Feb-17
A2278	EVB - Rectification of Concrete Defects to Plenum B1-23	6	24-Jan-17	01-Feb-17
A2279	EVB - Rectification of Concrete Defects to GL A-E/3-5	3	12-Jan-17 A	23-Jan-17
A2314	EVB - (South Side) > Make Good D-wall surface (GL 6/M-O)	3	09-Jan-17 A	23-Jan-17
A2315	EVB - (North Side) > Make Good D-wall surface (GL 2/E-F)	14	24-Jan-17	10-Feb-17

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

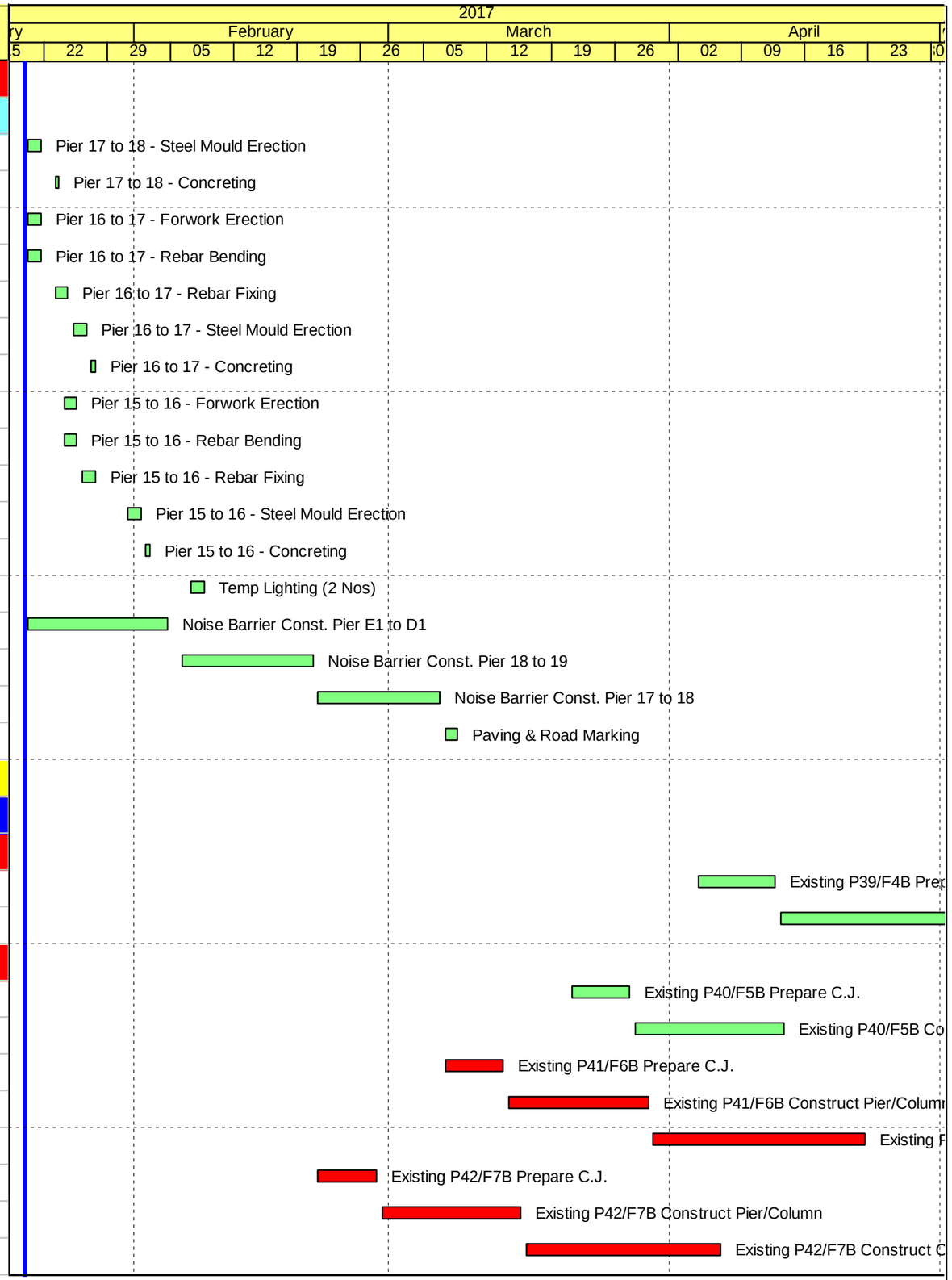
Contract HY/2009/19
Three Months Rolling Programme (20 Jan 2017 to 19 Apr 2017)

Activity ID	Activity Name	Rem Dur	Start	Finish
A2315.5	EVB - (North Side) > Make Good D-wall surface (GL 2/E-F)	14	15-Feb-17	02-Mar-17
A2316	EVB - (West Side) > Make Good D-wall surface (GL A/4-6)	2	03-Mar-17	04-Mar-17
09 - SECTION 6 OF THE WORKS				
09.1 - Carparks for Harbour Grand Hong Kong				
HGHK Reprovision				
Design, Submission, Material Approval				
Revised Boundary Wall				
A3710	BA14 (Wall)	0		17-Feb-17
Testing and Commissioning				
A3770	E & M	10	01-Apr-17	13-Apr-17
A3780	Waterpipe	10	01-Apr-17	13-Apr-17
A3780.3	Statutory Inspection by DB & HGHK	0		13-Apr-17
A3780.5	Move Carpark to Permanent	1	15-Apr-17	15-Apr-17
Construction				
Stage 1 Construction (Below IEC W/B)				
A3880	Tiling (Stage 1)	24	06-Jan-17 A	18-Feb-17
Stage 2 Construction (Below IEC E/B)				
A3910	1800H Boundary Wall (RC)	10	12-Jan-17 A	11-Feb-17
A3920	E&M Manhole Construction	12	16-Jan-17 A	11-Feb-17
A3930	Waterpipe Installation	6	04-Feb-17	11-Feb-17
A3940	Slab Construction	6	11-Feb-17	17-Feb-17
A3950	Screeding + Floor + Mix	6	18-Feb-17	24-Feb-17
A3960	Tiling (Stage 2)	24	25-Feb-17	24-Mar-17
A3970	Planting	6	25-Mar-17	31-Mar-17
A3980	E&M Installation	6	25-Mar-17	31-Mar-17
A3990	Water Point Installation	6	25-Mar-17	31-Mar-17
Alfresco Cafe Area (outside works boundary)				
Reprovision (Alfresco Cafe Area)				
A4060	Material Procurement & Delivery	24	19-Dec-16 A	18-Feb-17
A4080	Construction	35	20-Feb-17	31-Mar-17
10 - SECTION X OF THE WORKS				
10.2 - W/B Bridges (Bridge C and F)				
10.2.3 - Bridge Construction				



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

Activity ID	Activity Name	Rem Dur	Start	Finish
	Bridge C1			
	Outstanding Works Between Bridge C1 & E			
A4530	Pier 17 to 18 - Steel Mould Erection	2	20-Jan-17	21-Jan-17
A4550	Pier 17 to 18 - Concreting	1	23-Jan-17	23-Jan-17
A4570	Pier 16 to 17 - Forwork Erection	2	20-Jan-17	21-Jan-17
A4590	Pier 16 to 17 - Rebar Bending	2	20-Jan-17	21-Jan-17
A4610	Pier 16 to 17 - Rebar Fixing	2	23-Jan-17	24-Jan-17
A4630	Pier 16 to 17 - Steel Mould Erection	2	25-Jan-17	26-Jan-17
A4650	Pier 16 to 17 - Concreting	1	27-Jan-17	27-Jan-17
A4670	Pier 15 to 16 - Forwork Erection	2	24-Jan-17	25-Jan-17
A4690	Pier 15 to 16 - Rebar Bending	2	24-Jan-17	25-Jan-17
A4710	Pier 15 to 16 - Rebar Fixing	2	26-Jan-17	27-Jan-17
A4730	Pier 15 to 16 - Steel Mould Erection	2	31-Jan-17	01-Feb-17
A4750	Pier 15 to 16 - Concreting	1	02-Feb-17	02-Feb-17
A4770	Temp Lighting (2 Nos)	2	07-Feb-17	08-Feb-17
A4790	Noise Barrier Const. Pier E1 to D1	12	20-Jan-17	04-Feb-17
A4810	Noise Barrier Const. Pier 18 to 19	13	06-Feb-17	20-Feb-17
A4830	Noise Barrier Const. Pier 17 to 18	12	21-Feb-17	06-Mar-17
A4850	Paving & Road Marking	2	07-Mar-17	08-Mar-17
	10.3 - Middle Bridge (Bridge F)			
	10.3.1 - Pier Construction			
	Pier F1B2 to F4B			
1031-1440	Existing P39/F4B Prepare C.J.	7	04-Apr-17	12-Apr-17
1031-1460	Existing P39/F4B Construct Pier/Column	14	13-Apr-17	02-May-17
	Pier F5B to F8B			
1031-1520	Existing P40/F5B Prepare C.J.	6	21-Mar-17	27-Mar-17
1031-1540	Existing P40/F5B Construct Pier/Column	14	28-Mar-17	13-Apr-17
1031-1600	Existing P41/F6B Prepare C.J.	6	07-Mar-17	13-Mar-17
1031-1620	Existing P41/F6B Construct Pier/Column	14	14-Mar-17	29-Mar-17
1031-1640	Existing P41/F6B Construct Crosshead	18	30-Mar-17	22-Apr-17
1031-1680	Existing P42/F7B Prepare C.J.	6	21-Feb-17	27-Feb-17
1031-1700	Existing P42/F7B Construct Pier/Column	14	28-Feb-17	15-Mar-17
1031-1720	Existing P42/F7B Construct Crosshead	18	16-Mar-17	06-Apr-17



Remaining Level of Effort
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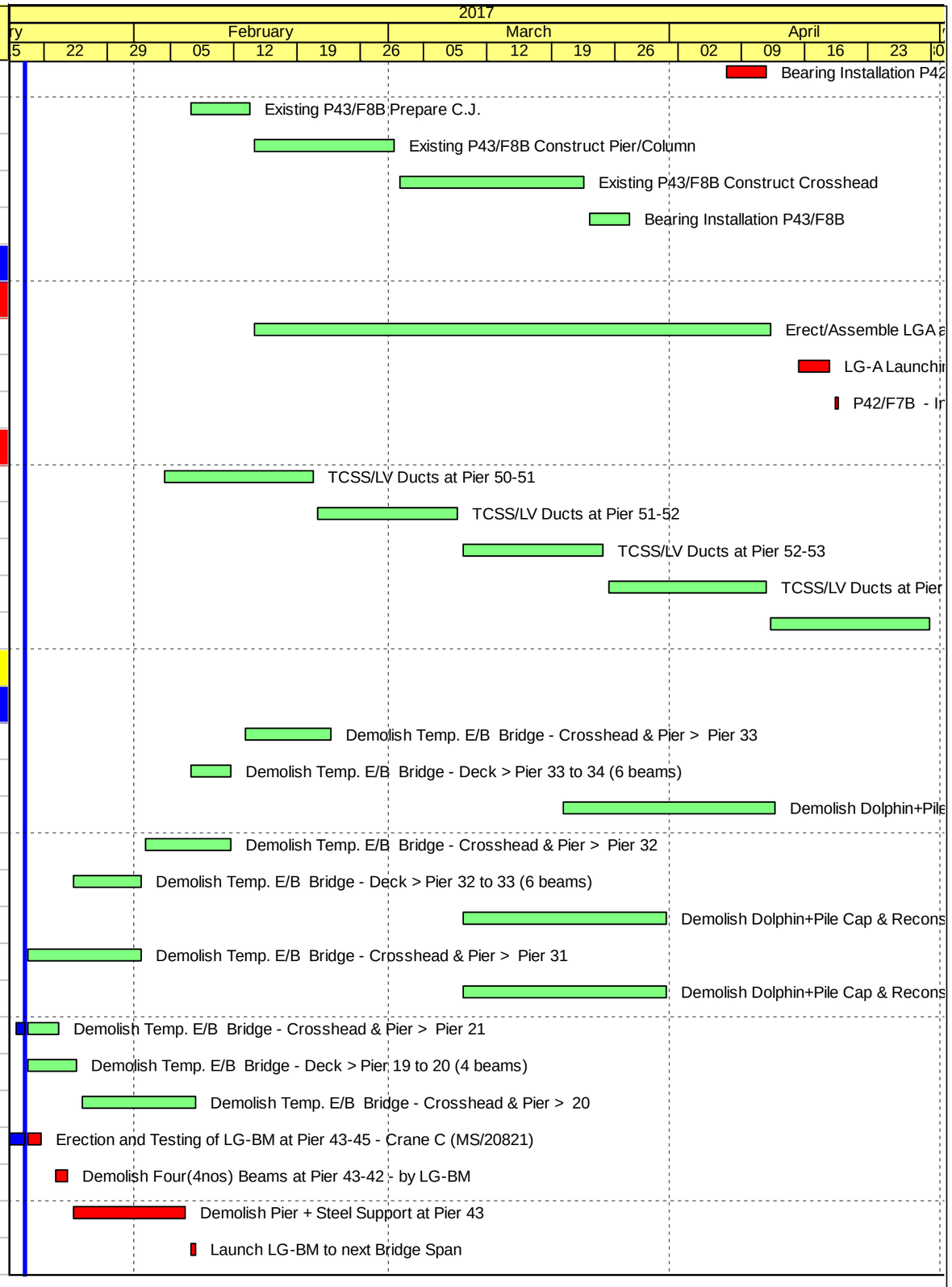
Contract HY/2009/19
Three Months Rolling Programme (20 Jan 2017 to 19 Apr 2017)

Activity ID	Activity Name	Rem Dur	Start	Finish
1031-1740	Bearing Installation P42/F7B	4	07-Apr-17	11-Apr-17
1031-1760	Existing P43/F8B Prepare C.J.	6	07-Feb-17	13-Feb-17
1031-1780	Existing P43/F8B Construct Pier/Column	14	14-Feb-17	01-Mar-17
1031-1800	Existing P43/F8B Construct Crosshead	18	02-Mar-17	22-Mar-17
1031-1820	Bearing Installation P43/F8B	4	23-Mar-17	27-Mar-17
10.3.2 - Bridge Construction				
Bridge F3B				
1032-1820	Erect/Assemble LGA at P43-45 + T&C for Erection of Segment	48	14-Feb-17	12-Apr-17
1032-1840	LG-A Launching - Engage FL at F7B/Pier42	2	15-Apr-17	18-Apr-17
1032-1860	P42/F7B - Install Pier Segment - Place Pier Segment	1	19-Apr-17	19-Apr-17
All Middle Bridge F (Common)				
1032-4350	TCSS/LV Ducts at Pier 50-51	14	04-Feb-17	20-Feb-17
1032-4353	TCSS/LV Ducts at Pier 51-52	14	21-Feb-17	08-Mar-17
1032-4354	TCSS/LV Ducts at Pier 52-53	14	09-Mar-17	24-Mar-17
1032-4355	TCSS/LV Ducts at Pier 53-54	14	25-Mar-17	11-Apr-17
1032-4356	TCSS/LV Ducts at Pier 55-56	14	12-Apr-17	29-Apr-17
10.4 - Bridge Deck Demolition				
10.4.3 - Existing E/B Bridge				
10412-1710	Demolish Temp. E/B Bridge - Crosshead & Pier > Pier 33	9	13-Feb-17	22-Feb-17
10412-1720	Demolish Temp. E/B Bridge - Deck > Pier 33 to 34 (6 beams)	5	07-Feb-17	11-Feb-17
10412-1730	Demolish Dolphin+Pile Cap & Reconstruct Pier 32 Pile Cap	20	20-Mar-17	12-Apr-17
10412-1740	Demolish Temp. E/B Bridge - Crosshead & Pier > Pier 32	9	02-Feb-17	11-Feb-17
10412-1750	Demolish Temp. E/B Bridge - Deck > Pier 32 to 33 (6 beams)	5	25-Jan-17	01-Feb-17
10412-1760	Demolish Dolphin+Pile Cap & Reconstruct Pier 31 Pile Cap	20	09-Mar-17	31-Mar-17
10412-1770	Demolish Temp. E/B Bridge - Crosshead & Pier > Pier 31	9	20-Jan-17	01-Feb-17
10412-1790	Demolish Dolphin+Pile Cap & Reconstruct Pier 30 Pile Cap	20	09-Mar-17	31-Mar-17
10412-2340	Demolish Temp. E/B Bridge - Crosshead & Pier > Pier 21	3	19-Jan-17 A	23-Jan-17
10412-2360	Demolish Temp. E/B Bridge - Deck > Pier 19 to 20 (4 beams)	5	20-Jan-17	25-Jan-17
10412-2380	Demolish Temp. E/B Bridge - Crosshead & Pier > 20	9	26-Jan-17	07-Feb-17
A2790	Erection and Testing of LG-BM at Pier 43-45 - Crane C (MS/20821)	2	19-Dec-16 A	21-Jan-17
A2800	Demolish Four(4nos) Beams at Pier 43-42 - by LG-BM	2	23-Jan-17	24-Jan-17
A2830	Demolish Pier + Steel Support at Pier 43	9	25-Jan-17	06-Feb-17
A2832	Launch LG-BM to next Bridge Span	1	07-Feb-17	07-Feb-17



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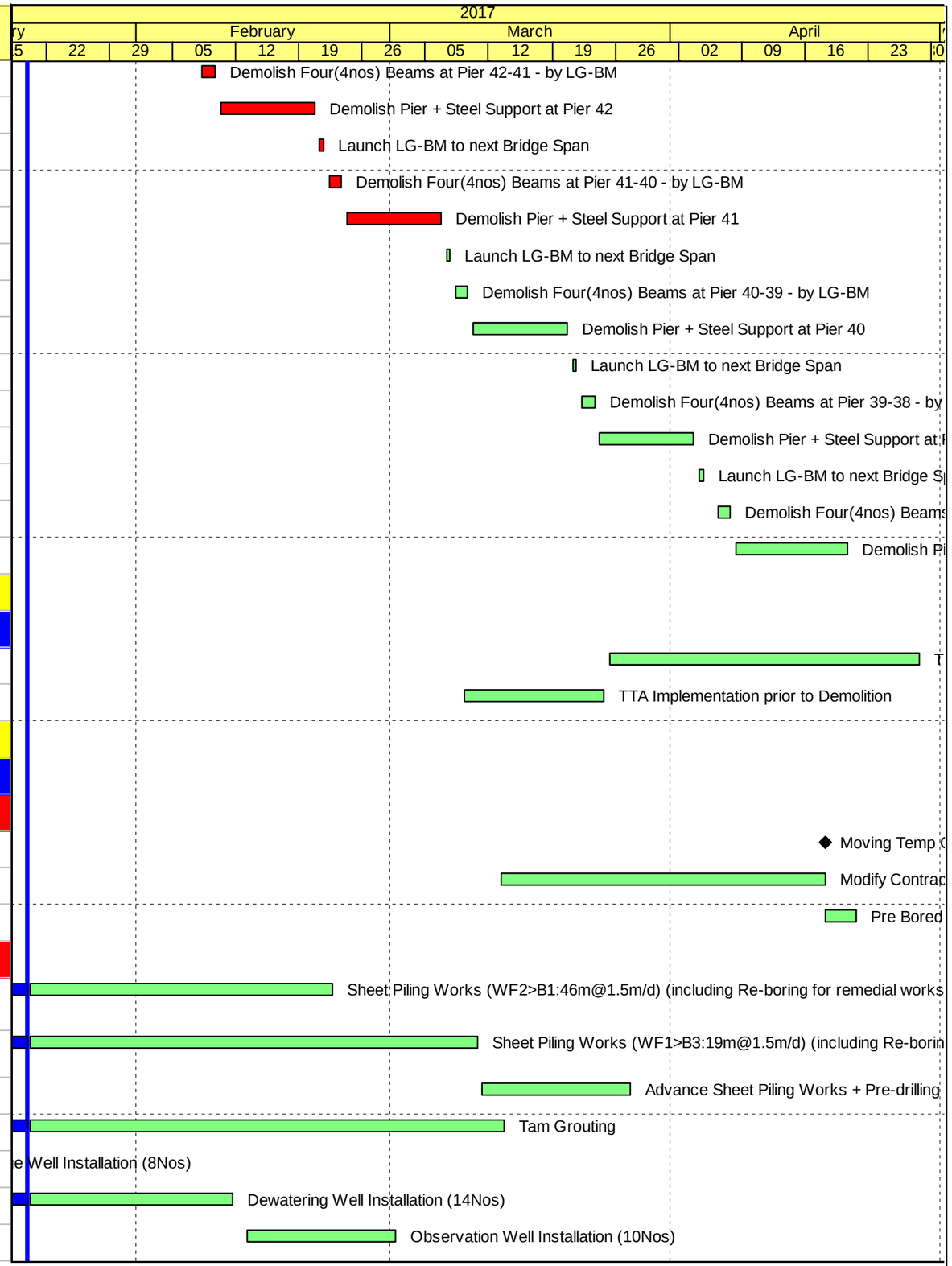
Activity ID	Activity Name	Rem Dur	Start	Finish
A3240	Demolish Four(4nos) Beams at Pier 42-41 - by LG-BM	2	08-Feb-17	09-Feb-17
A3250	Demolish Pier + Steel Support at Pier 42	9	10-Feb-17	20-Feb-17
A3260	Launch LG-BM to next Bridge Span	1	21-Feb-17	21-Feb-17
A3270	Demolish Four(4nos) Beams at Pier 41-40 - by LG-BM	2	22-Feb-17	23-Feb-17
A3280	Demolish Pier + Steel Support at Pier 41	9	24-Feb-17	06-Mar-17
A3290	Launch LG-BM to next Bridge Span	1	07-Mar-17	07-Mar-17
A3300	Demolish Four(4nos) Beams at Pier 40-39 - by LG-BM	2	08-Mar-17	09-Mar-17
A3310	Demolish Pier + Steel Support at Pier 40	9	10-Mar-17	20-Mar-17
A3320	Launch LG-BM to next Bridge Span	1	21-Mar-17	21-Mar-17
A3330	Demolish Four(4nos) Beams at Pier 39-38 - by LG-BM	2	22-Mar-17	23-Mar-17
A3340	Demolish Pier + Steel Support at Pier 39	9	24-Mar-17	03-Apr-17
A3350	Launch LG-BM to next Bridge Span	1	04-Apr-17	04-Apr-17
A3360	Demolish Four(4nos) Beams at Pier 38-37 - by LG-BM	2	06-Apr-17	07-Apr-17
A3370	Demolish Pier + Steel Support at Pier 38	9	08-Apr-17	20-Apr-17
10.5 - Temporary Bridge				
10.5.2 - Temporary Bridge 'TB'				
1052-1260	TB > Demolition of Temporary Bridge "TB'	27	25-Mar-17	28-Apr-17
A4140	TTA Implementation prior to Demolition	14	09-Mar-17	24-Mar-17
10.6 - Tunnel Approach Ramp				
10.6.1 - Approach Ramp (Excluding Portion IIB)				
Piling Works				
1061-3490	Moving Temp Car Park to Permanent Car Park Completed	0		18-Apr-17
1061-3495	Modify Contractor's Temp Site Office	28	13-Mar-17	18-Apr-17
1061-3500	Pre Bored H-Pile > Pile Ramp - BM03 A	4	18-Apr-17	21-Apr-17
Excavation & ELS Works				
1061-4901.1	Sheet Piling Works (WF2>B1:46m@1.5m/d) (including Re-boring for remedial works)	27	10-Oct-16 A	22-Feb-17
1061-4901.2	Sheet Piling Works (WF1>B3:19m@1.5m/d) (including Re-boring for remedial works)	41	12-Jul-16 A	10-Mar-17
1061-4910	Advance Sheet Piling Works + Pre-drilling in Phase 2 - Cul de sac Area (30m)	14	11-Mar-17	27-Mar-17
1061-4915	Tam Grouting	43	14-Sep-16 A	13-Mar-17
1061-5040	Recharge Well Installation (8Nos)	0	22-Dec-16 A	10-Jan-17 A
1061-5060	Dewatering Well Installation (14Nos)	18	11-Jan-17 A	11-Feb-17
1061-5080	Observation Well Installation (10Nos)	15	13-Feb-17	01-Mar-17



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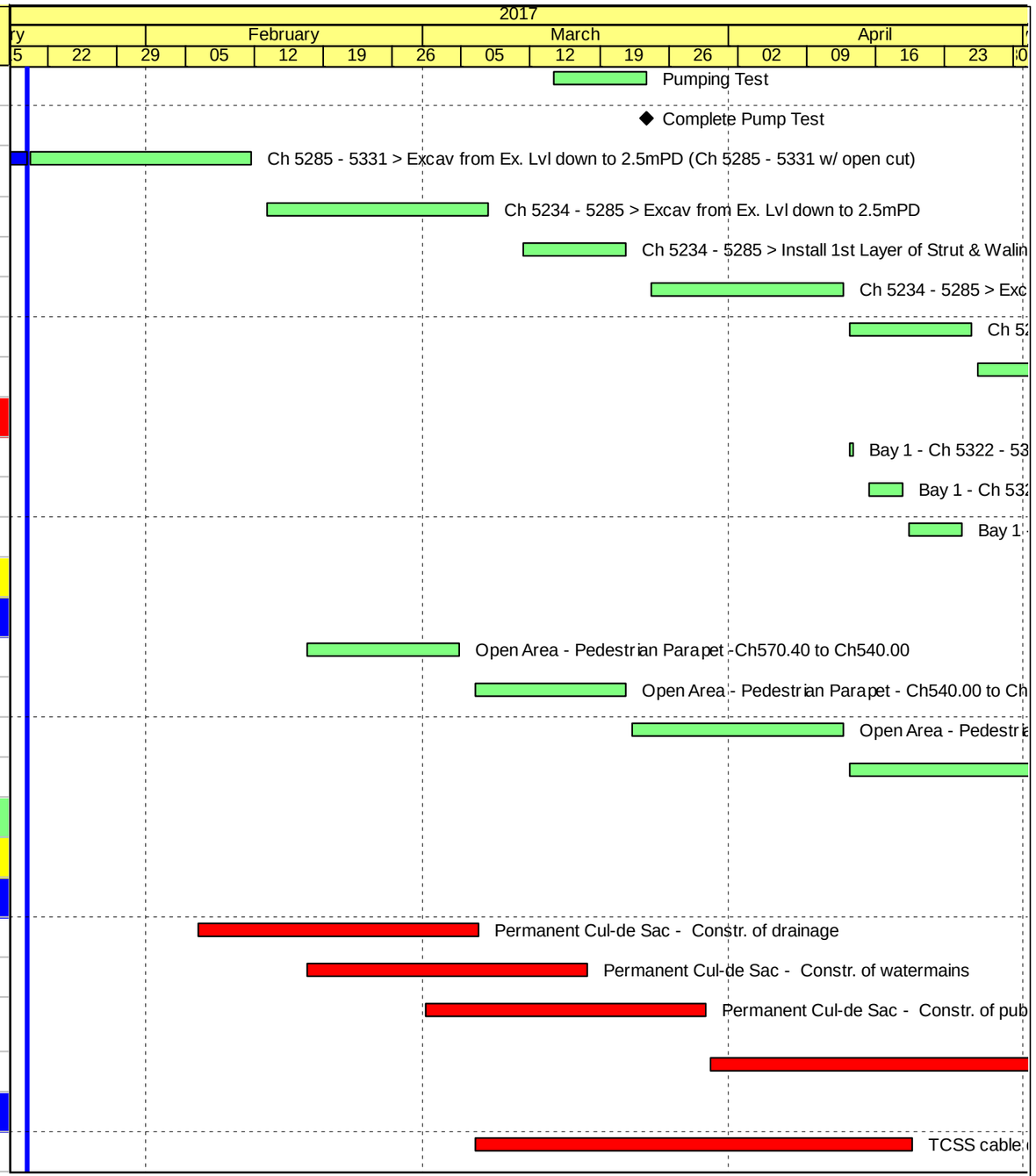
Contract HY/2009/19
Three Months Rolling Programme (20 Jan 2017 to 19 Apr 2017)

Activity ID	Activity Name	Rem Dur	Start	Finish
1061-5100	Pumping Test	9	14-Mar-17	23-Mar-17
1061-5120	Complete Pump Test	0		23-Mar-17
1061-5140	Ch 5285 - 5331 > Excav from Ex. Lvl down to 2.5mPD (Ch 5285 - 5331 w/ open cut)	18	15-Aug-16 A	11-Feb-17
1061-5160	Ch 5234 - 5285 > Excav from Ex. Lvl down to 2.5mPD	20	13-Feb-17	07-Mar-17
1061-5180	Ch 5234 - 5285 > Install 1st Layer of Strut & Waling	9	11-Mar-17	21-Mar-17
1061-5200	Ch 5234 - 5285 > Excav from 2.5mPD to 1m Below 2nd Layer of Struts	16	24-Mar-17	12-Apr-17
1061-5220	Ch 5234 - 5285 > Install 2nd Layer of Strut & Waling	9	13-Apr-17	25-Apr-17
1061-5240	Ch 5234 - 5285 > Excav to FEL	13	26-Apr-17	11-May-17
Structure Works				
1061-5260	Bay 1 - Ch 5322 - 5331 > Base Slab - Blinding Layer	1	13-Apr-17	13-Apr-17
1061-5280	Bay 1 - Ch 5322 - 5331 > Base Slab - Water Proofing Membrane	2	15-Apr-17	18-Apr-17
1061-5300	Bay 1 - Ch 5322 - 5331 > Base Slab - Rebar Fixing	5	19-Apr-17	24-Apr-17
10.7 - Section X - Miscellaneous Works				
10.7.3 - Open Area				
1073-1010	Open Area - Pedestrian Parapet -Ch570.40 to Ch540.00	14	17-Feb-17*	04-Mar-17
1073-1010.3	Open Area - Pedestrian Parapet - Ch540.00 to Ch520.00	14	06-Mar-17	21-Mar-17
1073-1010.5	Open Area - Pedestrian Parapet - Ch0.00 - Ch40.00	18	22-Mar-17	12-Apr-17
1073-1010.7	Open Area - Pedestrian Parapet - Ch40.00 - 80.00	18	13-Apr-17	06-May-17
11 - SECTION 11 OF THE WORKS				
11.1 - Portion XIIA - Stage 1				
11.1.1 - Along Watson Road - Waterwork & Roadworks (Portion XIIA)				
1110-2820	Permanent Cul-de Sac - Constr. of drainage	25	06-Feb-17*	06-Mar-17
1110-2830	Permanent Cul-de Sac - Constr. of watermains	25	17-Feb-17	17-Mar-17
1110-2840	Permanent Cul-de Sac - Constr. of public lighting & telecom (conduits & drawpits)	25	01-Mar-17	29-Mar-17
1110-2850	Permanent Cul-de Sac - Constr. of (kerbs & pavements)	25	30-Mar-17	02-May-17
11.1.3 - Along Tsing Fung St. - TCSS cable ducting (Portion XIIA)				
1110-2930	TCSS cable ducting along Tsing Fung St	36	06-Mar-17*	19-Apr-17



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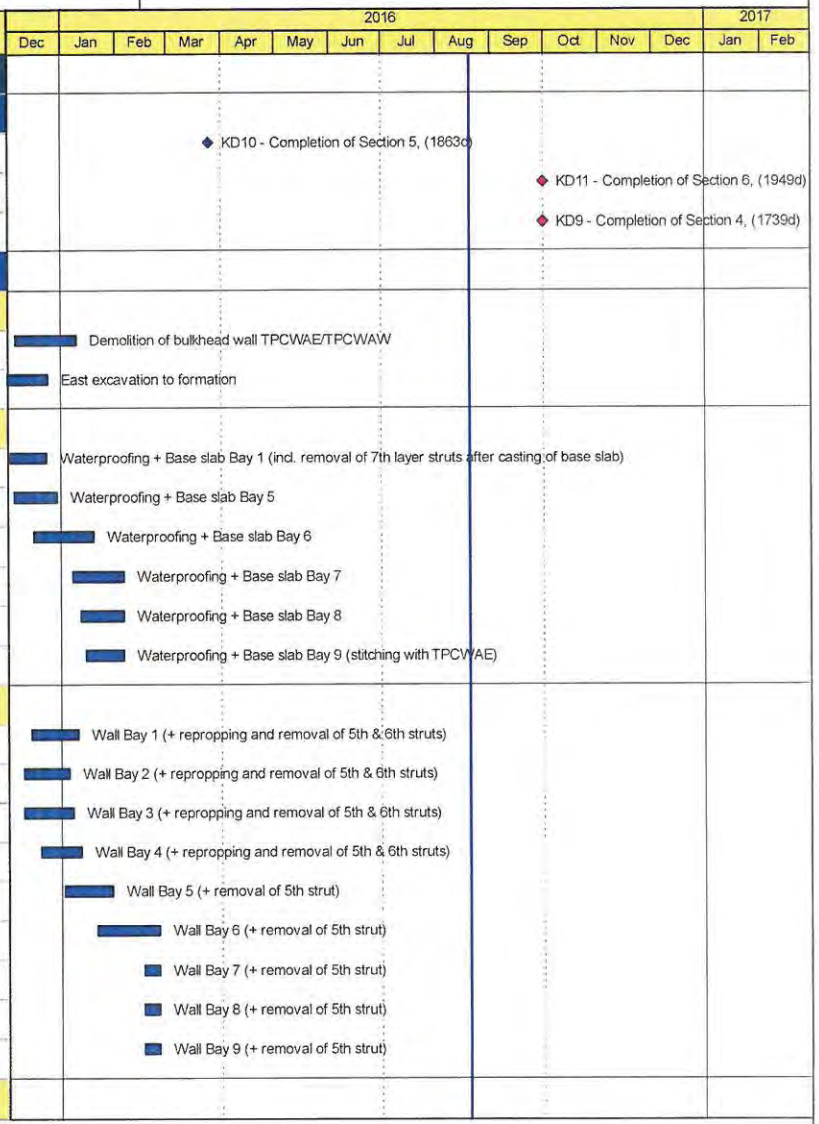
Contract HY/2009/19
Three Months Rolling Programme (20 Jan 2017 to 19 Apr 2017)

Activity ID	Activity Name	Physical % Complete	Original Duration	Start	Finish	Total Float
HY/2009/15 - Works Programme Update 20 August 2016						
Stage and Section Completion						
KD_5745	KD10 - Completion of Section 5, (1863d)	100%	0d		25-Mar-16 A	
KD_5750	KD11 - Completion of Section 6, (1949d)	0%	0d		30-Sep-16*	-245d
KD_5740	KD9 - Completion of Section 4, (1739d)	0%	0d		30-Sep-16*	-455d
TPCWAW						
TPCWAW ELS Works - East Section						
S5_61070	Demolition of bulkhead wall TPCWAE/TPCWAW	100%	34d	06-Dec-15 A	09-Jan-16 A	
S6_6180	East excavation to formation	100%	85d	18-Sep-15 A	24-Dec-15 A	
TPCWAW- CCT RC Structure, Base Slab						
S5_60600	Waterproofing + Base slab Bay 1 (incl. removal of 7th layer struts after casting of base slab)	100%	15d	03-Dec-15 A	23-Dec-15 A	
S5_60620	Waterproofing + Base slab Bay 5	100%	11d	05-Dec-15 A	29-Dec-15 A	
S5_60625	Waterproofing + Base slab Bay 6	100%	11d	16-Dec-15 A	19-Jan-16 A	
S5_60630	Waterproofing + Base slab Bay 7	100%	7d	07-Jan-16 A	05-Feb-16 A	
S5_60635	Waterproofing + Base slab Bay 8	100%	6d	12-Jan-16 A	05-Feb-16 A	
S5_61065	Waterproofing + Base slab Bay 9 (stitching with TPCWAE)	100%	6d	15-Jan-16 A	05-Feb-16 A	
TPCWAW- CCT RC Structure, Wall						
S5_60670	Wall Bay 1 (+ repropping and removal of 5th & 6th struts)	100%	21d	15-Dec-15 A	10-Jan-16 A	
S5_60675	Wall Bay 2 (+ repropping and removal of 5th & 6th struts)	100%	10d	10-Dec-15 A	05-Jan-16 A	
S5_60680	Wall Bay 3 (+ repropping and removal of 5th & 6th struts)	100%	21d	10-Dec-15 A	07-Jan-16 A	
S5_60685	Wall Bay 4 (+ repropping and removal of 5th & 6th struts)	100%	22d	20-Dec-15 A	11-Jan-16 A	
S5_60690	Wall Bay 5 (+ removal of 5th strut)	100%	10d	02-Jan-16 A	29-Jan-16 A	
S5_60695	Wall Bay 6 (+ removal of 5th strut)	100%	7d	21-Jan-16 A	25-Feb-16 A	
S5_60700	Wall Bay 7 (+ removal of 5th strut)	100%	8d	16-Feb-16 A	25-Feb-16 A	
S5_60705	Wall Bay 8 (+ removal of 5th strut)	100%	9d	16-Feb-16 A	25-Feb-16 A	
S5_61075	Wall Bay 9 (+ removal of 5th strut)	100%	8d	16-Feb-16 A	25-Feb-16 A	
TPCWAW -Maintenance Walkway						



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China State Construction Engineering (Hong Kong) Ltd.

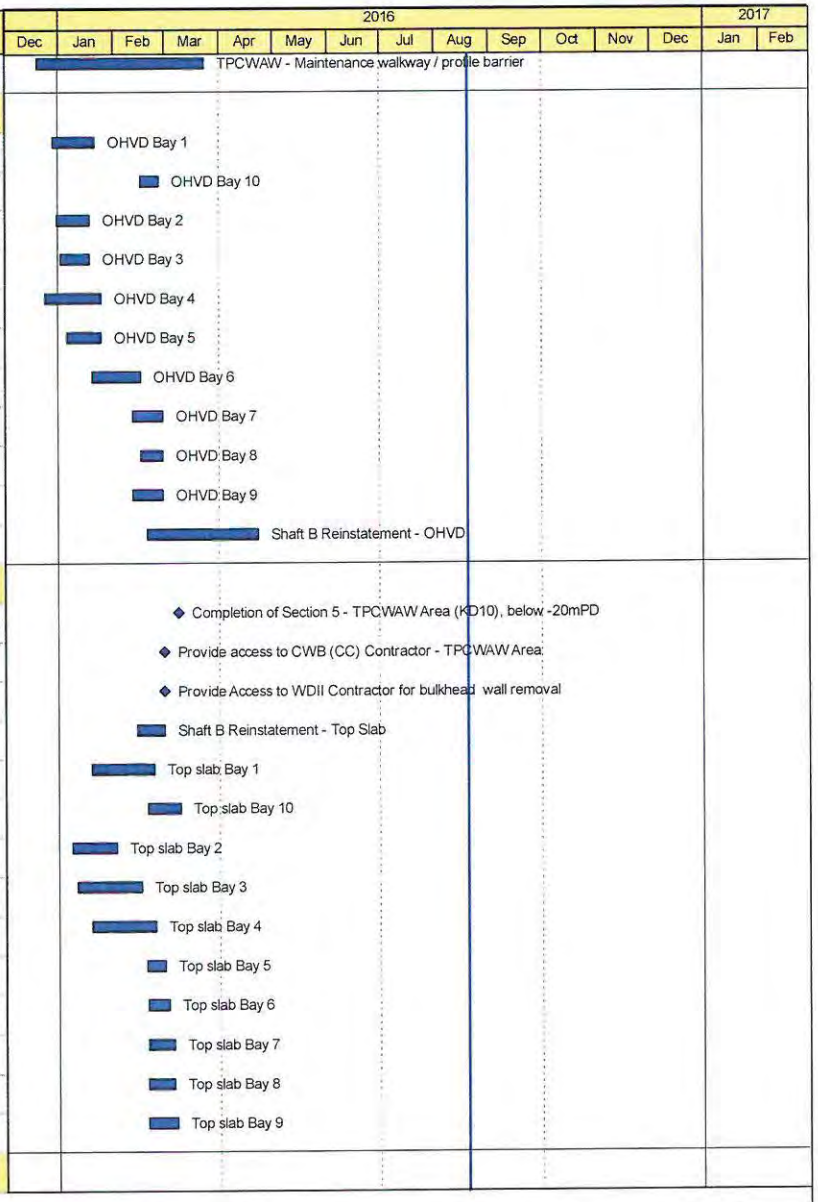
Contract No. HY/2009/15 - Central Wan Chai By Pass - Tunnel (Causeway Bay Typhoon Shelter Section)

WORKS PROGRAMME UPDATE

Prepared by Anthony Fesalbon

Date	Revision	Checked	Approved
20-Aug-16	Progress Update	WC	WSL
	(based on WP Rev. N-4th Submission)		

Activity ID	Activity Name	Physical % Complete	Original Duration	Start	Finish	Total Float
S6_9085	TPCWAW - Maintenance walkway / profile barrier	100%	23d	20-Dec-15 A	23-Mar-16 A	
TPCWAW- CCT RC Structure, OHVD						
S5_60740	OHVD Bay 1	100%	12d	29-Dec-15 A	21-Jan-16 A	
S5_61100	OHVD Bay 10	100%	7d	16-Feb-16 A	26-Feb-16 A	
S5_60745	OHVD Bay 2	100%	12d	31-Dec-15 A	18-Jan-16 A	
S5_60750	OHVD Bay 3	100%	12d	02-Jan-16 A	18-Jan-16 A	
S5_60755	OHVD Bay 4	100%	12d	24-Dec-15 A	25-Jan-16 A	
S5_60760	OHVD Bay 5	100%	12d	06-Jan-16 A	25-Jan-16 A	
S5_61080	OHVD Bay 6	100%	9d	20-Jan-16 A	16-Feb-16 A	
S5_61085	OHVD Bay 7	100%	9d	12-Feb-16 A	28-Feb-16 A	
S5_61090	OHVD Bay 8	100%	9d	16-Feb-16 A	28-Feb-16 A	
S5_61095	OHVD Bay 9	100%	9d	12-Feb-16 A	28-Feb-16 A	
S5_61110	Shaft B Reinstatement - OHVD	100%	20d	20-Feb-16 A	22-Apr-16 A	
TPCWAW- CCT RC Structure, Top Slab + Waterproofing						
S6_9135	Completion of Section 5 - TPCWAW Area (KD10), below -20mPD	100%	0d		09-Mar-16 A	
S5_61120	Provide access to CWB (CC) Contractor - TPCWAW Area	100%	0d		29-Feb-16 A	
S6_9055	Provide Access to WDII Contractor for bulkhead wall removal	100%	0d		29-Feb-16 A	
S5_61105	Shaft B Reinstatement - Top Slab	100%	15d	14-Feb-16 A	29-Feb-16 A	
S5_60810	Top slab Bay 1	100%	11d	19-Jan-16 A	23-Feb-16 A	
S5_60875	Top slab Bay 10	100%	5d	20-Feb-16 A	09-Mar-16 A	
S5_60815	Top slab Bay 2	100%	10d	08-Jan-16 A	02-Feb-16 A	
S5_60820	Top slab Bay 3	100%	10d	11-Jan-16 A	16-Feb-16 A	
S5_60825	Top slab Bay 4	100%	11d	19-Jan-16 A	24-Feb-16 A	
S5_60830	Top slab Bay 5	100%	10d	19-Feb-16 A	29-Feb-16 A	
S5_60835	Top slab Bay 6	100%	12d	20-Feb-16 A	02-Mar-16 A	
S5_60840	Top slab Bay 7	100%	7d	20-Feb-16 A	05-Mar-16 A	
S5_60845	Top slab Bay 8	100%	16d	20-Feb-16 A	05-Mar-16 A	
S5_60865	Top slab Bay 9	100%	15d	20-Feb-16 A	07-Mar-16 A	
TPCWAW - King Post Load Transfer / Waterproofing on Top Slab						



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

WORKS PROGRAMME UPDATE

Prepared by Anthony Fesalbon

Date	Revision	Checked	Approved
20-Aug-16	Progress Update	WC	WSL
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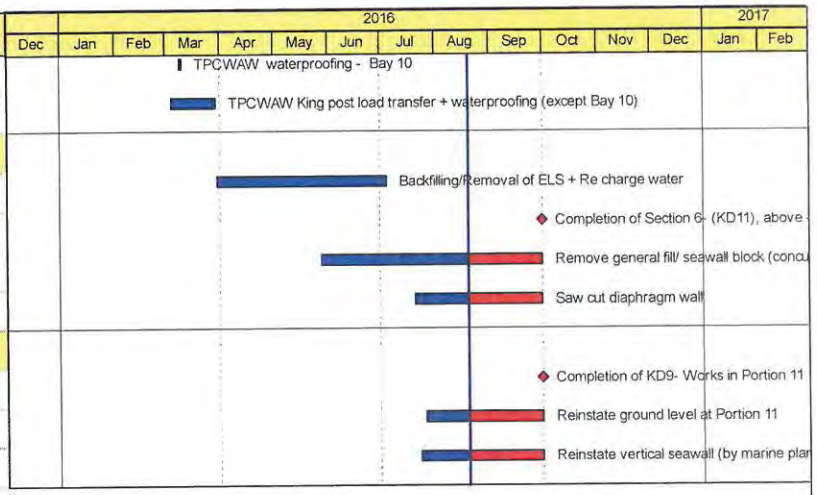
中國建築工程(香港)有限公司
CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LTD.

Activity ID	Activity Name	Physical % Complete	Original Duration	Start	Finish	Total Float
S5_61115	TPCWAW waterproofing - Bay 10	100%	2d	09-Mar-16 A	10-Mar-16 A	
S6_9076	TPCWAW King post load transfer + waterproofing (except Bay 10)	100%	26d	04-Mar-16 A	29-Mar-16 A	
TPCWAW Removal of Temporary Reclamation						
S6_9140	Backfilling/Removal of ELS + Re charge water	100%	25d	30-Mar-16 A	04-Jul-16 A	
S6_7550	Completion of Section 6- (KD11), above - 20mPD	0%	0d		30-Sep-16*	-245d
S6_9105	Remove general fill/ seawall block (concurrent activities)	0%	25d	28-May-16 A	30-Sep-16	0d
S6_9120	Saw cut diaphragm wall	44%	75d	20-Jul-16 A	30-Sep-16*	-244d
Works in Portion 11 under KD9 (incl. Reinstatement of Vertical Seawall)						
S6_9148	Completion of KD9- Works in Portion 11	0%	0d		30-Sep-16	-455d
S6_9147	Reinstate ground level at Portion 11	10%	40d	26-Jul-16 A	30-Sep-16	-385d
S6_9144	Reinstate vertical seawall (by marine plant)	0%	21d	23-Jul-16 A	30-Sep-16	-384d



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

WORKS PROGRAMME UPDATE

Prepared by Anthony Fesalbon

Date	Revision	Checked	Approved
20-Aug-16	Progress Update	WC	WSL
	(based on WP Rev. N-4th Submission)		

中國建築工程(香港)有限公司
CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LTD.

CEDD CONTRACT HK/2009/02

Activity ID	Activity Name	Ori Dur	Rem Dur	Scheduled/ Actual Start	Scheduled/ Actual Finish	Total Float	Calendar
Three Months Rolling Programme 2017-01-20 (dd 20-Jan-17)							
Programme Milestones (Revised up to EOTO No.21)							
Contractual Completion Dates							
KDC0170	Section 9B Works (2107 days) - CWB Structure (CH3400 Eastward) (2-Dec-15 Noon)	0	0		20-Jan-17*	-414	Calendar Day
KDC0180	Section 10 Works (2197 days) - CWB Structure (CH3400 Westward) (20-Oct-16 Noon)	0	0		20-Jan-17*	-91	Calendar Day
KDC0190	Section 11 Works (2407 days) - Remainder of Works/ Works Completion Date (19-May-17 Noon)	0	0		19-May-17*	0	Calendar Day
Soft Landscaping & Establishment Key Dates							
KDC0200	Section 11A Works (2437 days) - Remaining Landscape Softworks (03-Oct-16 Noon)	0	0		20-Jan-17*	-108	Calendar Day
Section 8A of the Works - Reprovisioning of Wan Chai Ferry Pier in Area 8							
Outstanding Works							
S8A-OUT-1060	Reinstatement works of the flooring inside the rooms under staircase ST-01 of the Ferry Pier	12	12	04-Mar-17	16-Mar-17	49	HK Working Day
S8A-OUT-1070	Reinstatement works of the flooring iunder the temporary covered walkway	6	6	17-Mar-17	23-Mar-17	49	HK Working Day
Section 9B of the Works - CWB Tunnel Structure (CH3400 - CH3796)							
Tunnel Portion 1 (CH3500-CH3630)							
CWB Structural Works							
Outstanding Works							
S9B-T1-OUT-1010	TB1 - Remedial works of the cross road ducts	25	34	12-Oct-16 A	22-Feb-17	-473	Calendar Day
S9B-T1-OUT-1020	TB1 - Remedial works of the OHVD damper openings and base slab levels found out-of-tolerance	25	25	23-Feb-17	19-Mar-17	-473	Calendar Day
Tunnel Portion 2 (CH3425-CH3500)							
CWB Structural Works							
Outstanding Works							
S9B-T2-OUT-1010	TB2 - Remedial works of the cross road ducts	25	34	12-Oct-16 A	22-Feb-17	-448	Calendar Day
Tunnel Portion 3 & Tunnel Portion 4 (CH3630-CH3790)							
CWB Structural Works							
Outstanding Works							
S9B-T34-OUT-1020	TP3 & 4 - Carry out defects rectification works	25	64	05-Oct-16 A	24-Mar-17	-478	Calendar Day
S9B-T34-OUT-1030	TP3 & 4 - Remedial works of the cross road ducts	18	58	12-Oct-16 A	18-Mar-17	-472	Calendar Day
Tunnel Portion 5 (CH3400-CH3425)							
Bay 13 (Eastern End Bay)							
S9B-T5-B13-1010	Base Slab - Waterproofing	4	14	06-Jan-17 A	02-Feb-17	-590	Calendar Day
S9B-T5-B13-1020	Base Slab - Rebar Fixing	10	10	13-Feb-17	22-Feb-17	-590	Calendar Day
S9B-T5-B13-1030	Base Slab - Concrete	1	1	23-Feb-17	23-Feb-17	-590	Calendar Day
S9B-T5-B13-1040	Base Slab - Curing	4	4	24-Feb-17	27-Feb-17	-590	Calendar Day
S9B-T5-B13-1050	Wall (North) - Waterproofing & Working Platform	4	4	12-Mar-17	15-Mar-17	-548	Calendar Day
S9B-T5-B13-1060	Wall (North) - Rebar Fixing	3	3	16-Mar-17	18-Mar-17	-548	Calendar Day
S9B-T5-B13-1070	Wall (North) - Formwork	2	2	25-Apr-17	26-Apr-17	-585	Calendar Day
S9B-T5-B13-1100	Wall (South) - Waterproofing & Working Platform	4	4	12-Mar-17	15-Mar-17	-548	Calendar Day
S9B-T5-B13-1110	Wall (South) - Rebar Fixing	3	3	16-Mar-17	18-Mar-17	-548	Calendar Day
S9B-T5-B13-1150	Wall (Middle) - Rebar Fixing & Working Platform	4	4	12-Mar-17	15-Mar-17	-545	Calendar Day
Bay 12							
S9B-T5-B12-1020	Base Slab - Rebar Fixing	10	2	09-Jan-17 A	21-Jan-17	-558	Calendar Day
S9B-T5-B12-1030	Base Slab - Concrete	1	1	22-Jan-17	22-Jan-17	-558	Calendar Day
S9B-T5-B12-1040	Base Slab - Curing	4	4	23-Jan-17	26-Jan-17	-558	Calendar Day
S9B-T5-B12-1050	Wall (North) - Waterproofing & Working Platform	4	4	12-Mar-17	15-Mar-17	-558	Calendar Day
S9B-T5-B12-1060	Wall (North) - Rebar Fixing	3	3	16-Mar-17	18-Mar-17	-554	Calendar Day
S9B-T5-B12-1070	Wall (North) - Formwork	2	2	19-Apr-17	20-Apr-17	-585	Calendar Day
S9B-T5-B12-1080	Wall (North) - Concrete	1	1	21-Apr-17	21-Apr-17	-585	Calendar Day
S9B-T5-B12-1090	Wall (North) - Curing & Formwork Dismantling	3	3	22-Apr-17	24-Apr-17	-585	Calendar Day
S9B-T5-B12-1100	Wall (South) - Waterproofing & Working Platform	4	4	16-Mar-17	19-Mar-17	-558	Calendar Day
S9B-T5-B12-1110	Wall (South) - Rebar Fixing	3	3	20-Mar-17	22-Mar-17	-558	Calendar Day
S9B-T5-B12-1120	Wall (South) - Formwork	2	2	23-Apr-17	24-Apr-17	-589	Calendar Day
S9B-T5-B12-1130	Wall (South) - Concrete	1	1	25-Apr-17	25-Apr-17	-589	Calendar Day
S9B-T5-B12-1140	Wall (South) - Curing & Formwork Dismantling	3	3	26-Apr-17	28-Apr-17	-589	Calendar Day
S9B-T5-B12-1150	Wall (Middle) - Rebar Fixing & Working Platform	4	4	27-Jan-17	30-Jan-17	-507	Calendar Day

◆ Milestone
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CHUN WO - CRGL

JOINT VENTURE

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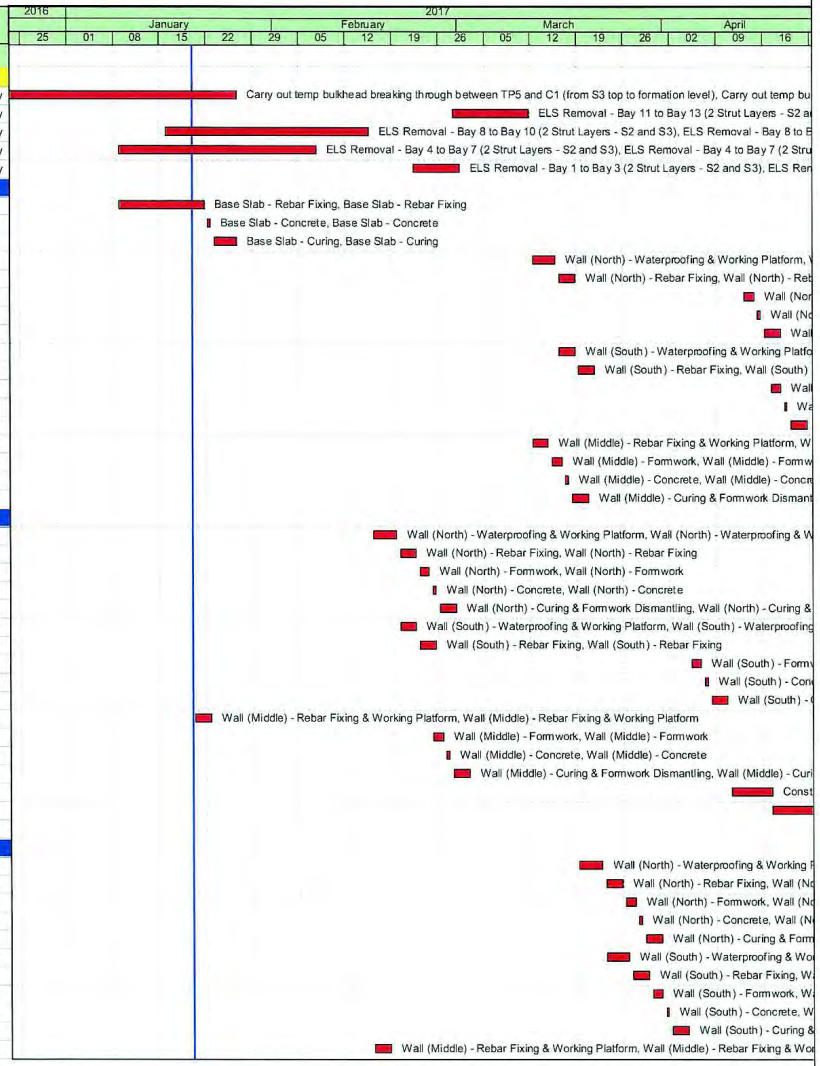
WD II - Central Wanchai Bypass at Wan Chai East (Contract 2)

3-MONTH ROLLING PROGRAMME (dd 20-Jan-17)

Date	Revision	Checked	Approved
	Rev. Programme (08.12.16)		

CEDD CONTRACT HK/2009/02

Activity ID	Activity Name	Ori Dur	Rem Dur	Scheduled/ Actual Start	Scheduled/ Actual Finish	Total Float	Calendar
Section 10 Works - CWB Tunnel Structure (CH3246 - CH3400)							
Tunnel Portion 5 (CH3276-CH3400)							
S10-T5-2120	Carry out temp bulkhead breaking through between TP5 and C1 (from S3 top to formation level)	28	7	03-Dec-16 A	26-Jan-17	-502	HK Working Day
S10-T5-4000	ELS Removal - Bay 11 to Bay 13 (2 Strut Layers - S2 and S3)	12	12	28-Feb-17	11-Mar-17	-532	HK Working Day
S10-T5-4100	ELS Removal - Bay 8 to Bay 10 (2 Strut Layers - S2 and S3)	12	19	16-Jan-17 A	15-Feb-17	-531	HK Working Day
S10-T5-4200	ELS Removal - Bay 4 to Bay 7 (2 Strut Layers - S2 and S3)	14	11	09-Jan-17 A	07-Feb-17	-520	HK Working Day
S10-T5-4300	ELS Removal - Bay 1 to Bay 3 (2 Strut Layers - S2 and S3)	7	7	22-Feb-17	01-Mar-17	-495	HK Working Day
Bay 11							
S10-T5-B11-1020	Base Slab - Rebar Fixing	10	2	09-Jan-17 A	21-Jan-17	-558	Calendar Day
S10-T5-B11-1030	Base Slab - Concrete	1	1	22-Jan-17	22-Jan-17	-558	Calendar Day
S10-T5-B11-1040	Base Slab - Curing	4	4	23-Jan-17	26-Jan-17	-558	Calendar Day
S10-T5-B11-1050	Wall (North) - Waterproofing & Working Platform	4	4	12-Mar-17	15-Mar-17	-589	Calendar Day
S10-T5-B11-1060	Wall (North) - Rebar Fixing	3	3	16-Mar-17	18-Mar-17	-560	Calendar Day
S10-T5-B11-1070	Wall (North) - Formwork	2	2	13-Apr-17	14-Apr-17	-585	Calendar Day
S10-T5-B11-1080	Wall (North) - Concrete	1	1	15-Apr-17	15-Apr-17	-585	Calendar Day
S10-T5-B11-1090	Wall (North) - Curing & Formwork Dismantling	3	3	16-Apr-17	18-Apr-17	-585	Calendar Day
S10-T5-B11-1100	Wall (South) - Waterproofing & Working Platform	3	3	16-Mar-17	18-Mar-17	-589	Calendar Day
S10-T5-B11-1110	Wall (South) - Rebar Fixing	3	3	19-Mar-17	21-Mar-17	-563	Calendar Day
S10-T5-B11-1120	Wall (South) - Formwork	2	2	17-Apr-17	18-Apr-17	-589	Calendar Day
S10-T5-B11-1130	Wall (South) - Concrete	1	1	19-Apr-17	19-Apr-17	-589	Calendar Day
S10-T5-B11-1140	Wall (South) - Curing & Formwork Dismantling	3	3	20-Apr-17	22-Apr-17	-589	Calendar Day
S10-T5-B11-1150	Wall (Middle) - Rebar Fixing & Working Platform	3	3	12-Mar-17	14-Mar-17	-556	Calendar Day
S10-T5-B11-1160	Wall (Middle) - Formwork	2	2	15-Mar-17	16-Mar-17	-556	Calendar Day
S10-T5-B11-1170	Wall (Middle) - Concrete	1	1	17-Mar-17	17-Mar-17	-556	Calendar Day
S10-T5-B11-1180	Wall (Middle) - Curing & Formwork Dismantling	3	3	18-Mar-17	20-Mar-17	-556	Calendar Day
Bay 10							
S10-T5-B10-1050	Wall (North) - Waterproofing & Working Platform	4	4	16-Feb-17	19-Feb-17	-588	Calendar Day
S10-T5-B10-1060	Wall (North) - Rebar Fixing	3	3	20-Feb-17	22-Feb-17	-588	Calendar Day
S10-T5-B10-1070	Wall (North) - Formwork	2	2	23-Feb-17	24-Feb-17	-588	Calendar Day
S10-T5-B10-1080	Wall (North) - Concrete	1	1	25-Feb-17	25-Feb-17	-588	Calendar Day
S10-T5-B10-1090	Wall (North) - Curing & Formwork Dismantling	3	3	26-Feb-17	28-Feb-17	-588	Calendar Day
S10-T5-B10-1100	Wall (South) - Waterproofing & Working Platform	3	3	20-Feb-17	22-Feb-17	-470	Calendar Day
S10-T5-B10-1110	Wall (South) - Rebar Fixing	3	3	23-Feb-17	25-Feb-17	-470	Calendar Day
S10-T5-B10-1120	Wall (South) - Formwork	2	2	05-Apr-17	06-Apr-17	-508	Calendar Day
S10-T5-B10-1130	Wall (South) - Concrete	1	1	07-Apr-17	07-Apr-17	-508	Calendar Day
S10-T5-B10-1140	Wall (South) - Curing & Formwork Dismantling	3	3	08-Apr-17	10-Apr-17	-508	Calendar Day
S10-T5-B10-1150	Wall (Middle) - Rebar Fixing & Working Platform	3	3	20-Jan-17	22-Jan-17	-442	Calendar Day
S10-T5-B10-1160	Wall (Middle) - Formwork	2	2	25-Feb-17	26-Feb-17	-475	Calendar Day
S10-T5-B10-1170	Wall (Middle) - Concrete	1	1	27-Feb-17	27-Feb-17	-475	Calendar Day
S10-T5-B10-1180	Wall (Middle) - Curing & Formwork Dismantling	3	3	28-Feb-17	02-Mar-17	-475	Calendar Day
S10-T5-B10-1185	Construct Roadside Barriers	6	6	11-Apr-17	17-Apr-17	-501	Calendar Day
S10-T5-B10-1230	OHVD Base Slab (North) - Scaffolding Erection	10	10	17-Apr-17	27-Apr-17	-414	Calendar Day
S10-T5-B10-1240	OHVD Base Slab (North) - Formwork & Rebar Fixing	7	7	25-Apr-17	02-May-17	-409	Calendar Day
Bay 9							
S10-T5-B9-1050	Wall (North) - Waterproofing & Working Platform	4	4	19-Mar-17	22-Mar-17	-589	Calendar Day
S10-T5-B9-1060	Wall (North) - Rebar Fixing	3	3	23-Mar-17	25-Mar-17	-585	Calendar Day
S10-T5-B9-1070	Wall (North) - Formwork	2	2	26-Mar-17	27-Mar-17	-585	Calendar Day
S10-T5-B9-1080	Wall (North) - Concrete	1	1	28-Mar-17	28-Mar-17	-585	Calendar Day
S10-T5-B9-1090	Wall (North) - Curing & Formwork Dismantling	3	3	29-Mar-17	31-Mar-17	-585	Calendar Day
S10-T5-B9-1100	Wall (South) - Waterproofing & Working Platform	4	4	23-Mar-17	26-Mar-17	-589	Calendar Day
S10-T5-B9-1110	Wall (South) - Rebar Fixing	3	3	27-Mar-17	29-Mar-17	-589	Calendar Day
S10-T5-B9-1120	Wall (South) - Formwork	2	2	30-Mar-17	31-Mar-17	-589	Calendar Day
S10-T5-B9-1130	Wall (South) - Concrete	1	1	01-Apr-17	01-Apr-17	-589	Calendar Day
S10-T5-B9-1140	Wall (South) - Curing & Formwork Dismantling	3	3	02-Apr-17	04-Apr-17	-589	Calendar Day
S10-T5-B9-1150	Wall (Middle) - Rebar Fixing & Working Platform	3	3	16-Feb-17	18-Feb-17	-475	Calendar Day



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S10-T5-B9-1160	Wall (Middle) - Formwork	2	2	19-Feb-17	20-Feb-17	-475	Calendar Day
S10-T5-B9-1170	Wall (Middle) - Concrete	1	1	21-Feb-17	21-Feb-17	-475	Calendar Day
S10-T5-B9-1180	Wall (Middle) - Curing & Formwork Dismantling	3	3	22-Feb-17	24-Feb-17	-475	Calendar Day
S10-T5-B9-1185	Construct Roadside Barriers	7	7	05-Apr-17	11-Apr-17	-496	Calendar Day
S10-T5-B9-1230	OHVD Base Slab (North) - Scaffolding Erection	10	10	12-Apr-17	21-Apr-17	-399	Calendar Day
S10-T5-B9-1240	OHVD Base Slab (North) - Formwork & Rebar Fixing	7	7	22-Apr-17	28-Apr-17	-396	Calendar Day
S10-T5-B9-1270	OHVD Base Slab (South) - Scaffolding Erection	10	10	22-Apr-17	01-May-17	-399	Calendar Day
Bay 8							
S10-T5-B8-1050	Wall (North) - Waterproofing & Working Platform	4	4	16-Feb-17	19-Feb-17	-552	Calendar Day
S10-T5-B8-1060	Wall (North) - Rebar Fixing	3	3	20-Feb-17	22-Feb-17	-548	Calendar Day
S10-T5-B8-1070	Wall (North) - Formwork	2	2	01-Apr-17	02-Apr-17	-585	Calendar Day
S10-T5-B8-1080	Wall (North) - Concrete	1	1	03-Apr-17	03-Apr-17	-585	Calendar Day
S10-T5-B8-1090	Wall (North) - Curing & Formwork Dismantling	3	3	04-Apr-17	06-Apr-17	-585	Calendar Day
S10-T5-B8-1100	Wall (South) - Waterproofing & Working Platform	4	4	20-Feb-17	23-Feb-17	-552	Calendar Day
S10-T5-B8-1110	Wall (South) - Rebar Fixing	3	3	24-Feb-17	26-Feb-17	-552	Calendar Day
S10-T5-B8-1120	Wall (South) - Formwork	2	2	05-Apr-17	06-Apr-17	-589	Calendar Day
S10-T5-B8-1130	Wall (South) - Concrete	1	1	07-Apr-17	07-Apr-17	-589	Calendar Day
S10-T5-B8-1140	Wall (South) - Curing & Formwork Dismantling	3	3	08-Apr-17	10-Apr-17	-589	Calendar Day
S10-T5-B8-1150	Wall (Middle) - Rebar Fixing & Working Platform	3	3	20-Jan-17	22-Jan-17	-436	Calendar Day
S10-T5-B8-1160	Wall (Middle) - Formwork	2	2	25-Feb-17	26-Feb-17	-469	Calendar Day
S10-T5-B8-1170	Wall (Middle) - Concrete	1	1	27-Feb-17	27-Feb-17	-469	Calendar Day
S10-T5-B8-1180	Wall (Middle) - Curing & Formwork Dismantling	3	3	28-Feb-17	02-Mar-17	-469	Calendar Day
S10-T5-B8-1185	Construct Roadside Barriers	7	7	11-Apr-17	17-Apr-17	-502	Calendar Day
S10-T5-B8-1230	OHVD Base Slab (North) - Scaffolding Erection	10	10	18-Apr-17	27-Apr-17	-412	Calendar Day
Bay 7							
S10-T5-B7-1050	Wall (North) - Waterproofing & Working Platform	4	4	08-Feb-17	11-Feb-17	-578	Calendar Day
S10-T5-B7-1060	Wall (North) - Rebar Fixing	3	3	12-Feb-17	14-Feb-17	-534	Calendar Day
S10-T5-B7-1070	Wall (North) - Formwork	2	2	07-Apr-17	08-Apr-17	-585	Calendar Day
S10-T5-B7-1080	Wall (North) - Concrete	1	1	09-Apr-17	09-Apr-17	-585	Calendar Day
S10-T5-B7-1090	Wall (North) - Curing & Formwork Dismantling	3	3	10-Apr-17	12-Apr-17	-585	Calendar Day
S10-T5-B7-1100	Wall (South) - Waterproofing & Working Platform	4	4	12-Feb-17	15-Feb-17	-538	Calendar Day
S10-T5-B7-1110	Wall (South) - Rebar Fixing	3	3	16-Feb-17	18-Feb-17	-538	Calendar Day
S10-T5-B7-1120	Wall (South) - Formwork	2	2	11-Apr-17	12-Apr-17	-589	Calendar Day
S10-T5-B7-1130	Wall (South) - Concrete	1	1	13-Apr-17	13-Apr-17	-589	Calendar Day
S10-T5-B7-1140	Wall (South) - Curing & Formwork Dismantling	3	3	14-Apr-17	16-Apr-17	-589	Calendar Day
S10-T5-B7-1150	Wall (Middle North) - Rebar Fixing & Working Platform	3	3	08-Feb-17	10-Feb-17	-449	Calendar Day
S10-T5-B7-1160	Wall (Middle North) - Formwork	2	2	09-Apr-17	10-Apr-17	-506	Calendar Day
S10-T5-B7-1170	Wall (Middle North) - Concrete	1	1	11-Apr-17	11-Apr-17	-506	Calendar Day
S10-T5-B7-1180	Wall (Middle North) - Curing & Formwork Dismantling	3	3	12-Apr-17	14-Apr-17	-506	Calendar Day
S10-T5-B7-1185	Construct Roadside Barriers	7	7	17-Apr-17	23-Apr-17	-508	Calendar Day
S10-T5-B7-1190	Wall (Middle South) - Rebar Fixing & Working Platform	3	3	18-Jan-17 A	22-Jan-17	-511	Calendar Day
S10-T5-B7-1200	Wall (Middle South) - Formwork	2	2	23-Jan-17	24-Jan-17	-511	Calendar Day
S10-T5-B7-1210	Wall (Middle South) - Concrete	1	1	25-Jan-17	25-Jan-17	-511	Calendar Day
S10-T5-B7-1220	Wall (Middle South) - Curing & Formwork Dismantling	3	3	26-Jan-17	28-Jan-17	-511	Calendar Day
S10-T5-B7-1230	OHVD Base Slab (North) - Scaffolding Erection	10	10	24-Apr-17	03-May-17	-392	Calendar Day
S10-T5-B7-1310	OHVD Base Slab (South) - Scaffolding Erection	10	10	24-Apr-17	03-May-17	-394	Calendar Day
Bay 6							
S10-T5-B6-1050	Wall (North) - Waterproofing & Working Platform	4	4	12-Feb-17	15-Feb-17	-578	Calendar Day
S10-T5-B6-1060	Wall (North) - Rebar Fixing	3	3	16-Feb-17	18-Feb-17	-578	Calendar Day
S10-T5-B6-1070	Wall (North) - Formwork	2	2	01-Mar-17	02-Mar-17	-588	Calendar Day
S10-T5-B6-1080	Wall (North) - Concrete	1	1	03-Mar-17	03-Mar-17	-588	Calendar Day
S10-T5-B6-1090	Wall (North) - Curing & Formwork Dismantling	3	3	04-Mar-17	06-Mar-17	-588	Calendar Day
S10-T5-B6-1100	Wall (South) - Waterproofing & Working Platform	4	4	16-Feb-17	19-Feb-17	-461	Calendar Day
S10-T5-B6-1110	Wall (South) - Rebar Fixing	3	3	20-Feb-17	22-Feb-17	-461	Calendar Day
S10-T5-B6-1120	Wall (South) - Formwork	2	2	11-Apr-17	12-Apr-17	-508	Calendar Day
S10-T5-B6-1130	Wall (South) - Concrete	1	1	13-Apr-17	13-Apr-17	-508	Calendar Day

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S10-T5-B6-1140	Wall (South) - Curing & Formwork Dismantling	3	3	14-Apr-17	16-Apr-17	-508	Calendar Day
S10-T5-B6-1150	Wall (Middle North) - Rebar Fixing & Working Platform	3	3	08-Feb-17	10-Feb-17	-455	Calendar Day
S10-T5-B6-1160	Wall (Middle North) - Formwork	2	2	03-Mar-17	04-Mar-17	-475	Calendar Day
S10-T5-B6-1170	Wall (Middle North) - Concrete	1	1	05-Mar-17	05-Mar-17	-475	Calendar Day
S10-T5-B6-1180	Wall (Middle North) - Curing & Formwork Dismantling	3	3	06-Mar-17	08-Mar-17	-475	Calendar Day
S10-T5-B6-1190	Wall (Middle South) - Rebar Fixing & Working Platform	3	3	20-Jan-17	22-Jan-17	-430	Calendar Day
S10-T5-B6-1200	Wall (Middle South) - Formwork	2	2	09-Mar-17	10-Mar-17	-475	Calendar Day
S10-T5-B6-1210	Wall (Middle South) - Concrete	1	1	11-Mar-17	11-Mar-17	-475	Calendar Day
S10-T5-B6-1220	Wall (Middle South) - Curing & Formwork Dismantling	3	3	12-Mar-17	14-Mar-17	-475	Calendar Day
S10-T5-B6-1225	Construct Roadside Barriers	7	7	17-Apr-17	23-Apr-17	-508	Calendar Day
S10-T5-B6-1230	OHVD Base Slab (North) - Scaffolding Erection	10	10	24-Apr-17	03-May-17	-397	Calendar Day
S10-T5-B6-1315	OHVD Base Slab (South) - Scaffolding Erection	10	10	24-Apr-17	03-May-17	-394	Calendar Day
Bay 5 (3 Cells)							
S10-T5-B5-1050	Wall (North) - Waterproofing & Working Platform	4	4	08-Feb-17	11-Feb-17	-568	Calendar Day
S10-T5-B5-1060	Wall (North) - Rebar Fixing	3	3	12-Feb-17	14-Feb-17	-568	Calendar Day
S10-T5-B5-1070	Wall (North) - Formwork	2	2	07-Mar-17	08-Mar-17	-588	Calendar Day
S10-T5-B5-1080	Wall (North) - Concrete	1	1	09-Mar-17	09-Mar-17	-588	Calendar Day
S10-T5-B5-1090	Wall (North) - Curing & Formwork Dismantling	3	3	10-Mar-17	12-Mar-17	-588	Calendar Day
S10-T5-B5-1100	Wall (South) - Waterproofing & Working Platform	4	4	12-Feb-17	15-Feb-17	-560	Calendar Day
S10-T5-B5-1110	Wall (South) - Rebar Fixing	3	3	16-Feb-17	18-Feb-17	-560	Calendar Day
S10-T5-B5-1120	Wall (South) - Formwork	2	2	19-Feb-17	20-Feb-17	-560	Calendar Day
S10-T5-B5-1130	Wall (South) - Concrete	1	1	21-Feb-17	21-Feb-17	-560	Calendar Day
S10-T5-B5-1140	Wall (South) - Curing & Formwork Dismantling	3	3	22-Feb-17	24-Feb-17	-560	Calendar Day
S10-T5-B5-1150	Wall (Middle North) - Rebar Fixing & Working Platform	3	3	08-Feb-17	10-Feb-17	-449	Calendar Day
S10-T5-B5-1160	Wall (Middle North) - Formwork	2	2	11-Feb-17	12-Feb-17	-449	Calendar Day
S10-T5-B5-1170	Wall (Middle North) - Concrete	1	1	13-Feb-17	13-Feb-17	-449	Calendar Day
S10-T5-B5-1180	Wall (Middle North) - Curing & Formwork Dismantling	3	3	14-Feb-17	16-Feb-17	-449	Calendar Day
S10-T5-B5-1190	Wall (Middle South) - Rebar Fixing & Working Platform	3	3	08-Feb-17	10-Feb-17	-449	Calendar Day
S10-T5-B5-1200	Wall (Middle South) - Formwork	2	2	11-Feb-17	12-Feb-17	-449	Calendar Day
S10-T5-B5-1210	Wall (Middle South) - Concrete	1	1	13-Feb-17	13-Feb-17	-449	Calendar Day
S10-T5-B5-1220	Wall (Middle South) - Curing & Formwork Dismantling	3	3	14-Feb-17	16-Feb-17	-449	Calendar Day
S10-T5-B5-1225	Construct Roadside Barriers	7	7	13-Mar-17	19-Mar-17	-473	Calendar Day
S10-T5-B5-1230	OHVD Base Slab (North & Middle) - Scaffolding Erection	14	14	20-Mar-17	02-Apr-17	-368	Calendar Day
S10-T5-B5-1240	OHVD Base Slab (North & Middle) - Formwork & Rebar Fixing	13	13	03-Apr-17	15-Apr-17	-368	Calendar Day
S10-T5-B5-1250	OHVD Base Slab (North & Middle) - Concrete & Curing	2	2	16-Apr-17	17-Apr-17	-368	Calendar Day
S10-T5-B5-1260	OHVD Base Slab (North & Middle) - Hanger Wall & Scaffolding to Roof	3	3	18-Apr-17	20-Apr-17	-364	Calendar Day
S10-T5-B5-1310	OHVD Base Slab (South) - Scaffolding Erection	10	10	20-Mar-17	29-Mar-17	-358	Calendar Day
S10-T5-B5-1320	OHVD Base Slab (South) - Formwork & Rebar Fixing	7	7	30-Mar-17	05-Apr-17	-358	Calendar Day
S10-T5-B5-1330	OHVD Base Slab (South) - Concrete & Curing	2	2	06-Apr-17	07-Apr-17	-358	Calendar Day
S10-T5-B5-1340	OHVD Base Slab (South) - Hanger Wall & Scaffolding to Roof	3	3	08-Apr-17	10-Apr-17	-354	Calendar Day
S10-T5-B5-1350	Roof - Waterproofing	7	7	18-Apr-17	24-Apr-17	-368	Calendar Day
S10-T5-B5-1360	Roof - Rebar Fixing & Formwork	14	14	25-Apr-17	09-May-17	-368	Calendar Day
Bay 4 (3 Cells)							
S10-T5-B4-1050	Wall (North) - Waterproofing & Working Platform	4	4	08-Feb-17	11-Feb-17	-562	Calendar Day
S10-T5-B4-1060	Wall (North) - Rebar Fixing	3	3	12-Feb-17	14-Feb-17	-562	Calendar Day
S10-T5-B4-1070	Wall (North) - Formwork	2	2	13-Mar-17	14-Mar-17	-588	Calendar Day
S10-T5-B4-1080	Wall (North) - Concrete	1	1	15-Mar-17	15-Mar-17	-588	Calendar Day
S10-T5-B4-1090	Wall (North) - Curing & Formwork Dismantling	3	3	16-Mar-17	18-Mar-17	-588	Calendar Day
S10-T5-B4-1100	Wall (South) - Waterproofing & Working Platform	4	4	12-Feb-17	15-Feb-17	-554	Calendar Day
S10-T5-B4-1110	Wall (South) - Rebar Fixing	3	3	16-Feb-17	18-Feb-17	-554	Calendar Day
S10-T5-B4-1120	Wall (South) - Formwork	2	2	25-Feb-17	26-Feb-17	-560	Calendar Day
S10-T5-B4-1130	Wall (South) - Concrete	1	1	27-Feb-17	27-Feb-17	-560	Calendar Day
S10-T5-B4-1140	Wall (South) - Curing & Formwork Dismantling	3	3	28-Feb-17	02-Mar-17	-560	Calendar Day
S10-T5-B4-1150	Wall (Middle North) - Rebar Fixing & Working Platform	3	3	20-Jan-17	22-Jan-17	-545	Calendar Day
S10-T5-B4-1160	Wall (Middle North) - Formwork	2	2	23-Jan-17	24-Jan-17	-545	Calendar Day
S10-T5-B4-1170	Wall (Middle North) - Concrete	1	1	25-Jan-17	25-Jan-17	-545	Calendar Day

◆ Milestone
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CHUN WO - CRGL

JOINT VENTURE

CEDD CONTRACT NO. HK/2009/02

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

3-MONTH ROLLING PROGRAMME (dd 20-Jan-17)

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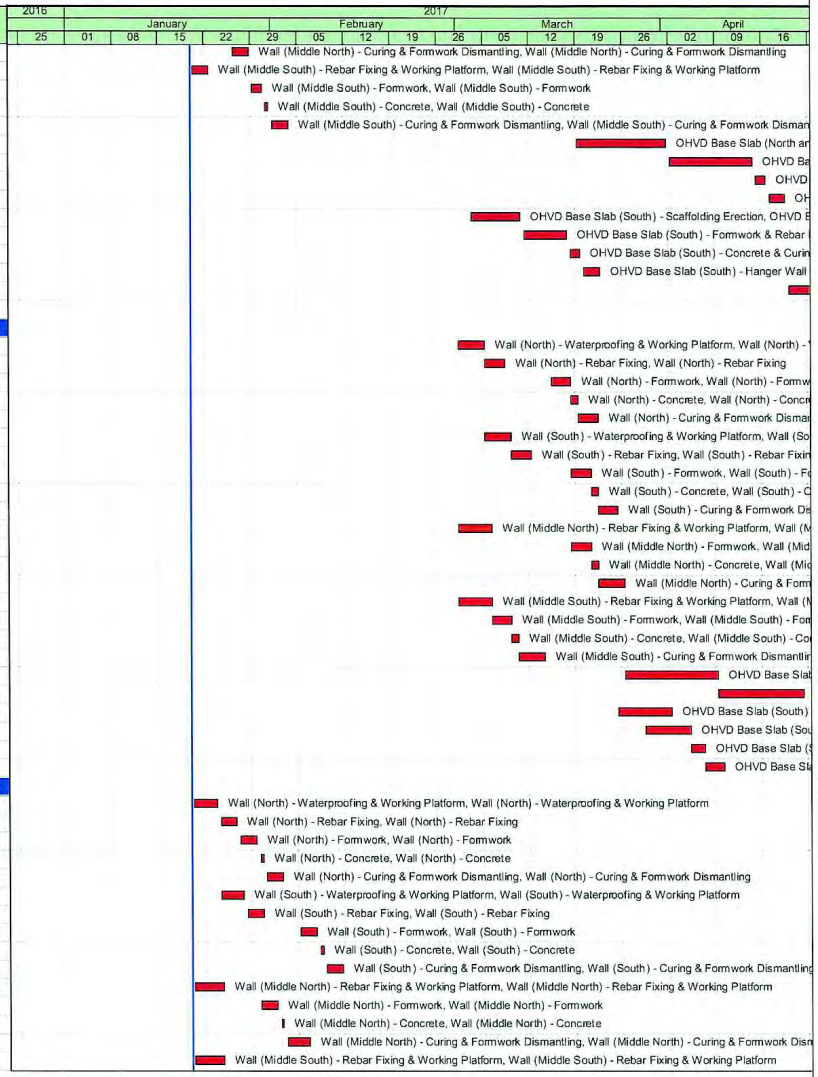
CEDD CONTRACT HK/2009/02

Activity ID	Activity Name	Ori Dur	Rem Dur	Scheduled/ Actual Start	Scheduled/ Actual Finish	Total Float	Calendar
S10-T5-B4-1180	Wall (Middle North) - Curing & Formwork Dismantling	3	3	26-Jan-17	28-Jan-17	-545	Calendar Day
S10-T5-B4-1190	Wall (Middle South) - Rebar Fixing & Working Platform	3	3	20-Jan-17	22-Jan-17	-539	Calendar Day
S10-T5-B4-1200	Wall (Middle South) - Formwork	2	2	29-Jan-17	30-Jan-17	-545	Calendar Day
S10-T5-B4-1210	Wall (Middle South) - Concrete	1	1	31-Jan-17	31-Jan-17	-545	Calendar Day
S10-T5-B4-1220	Wall (Middle South) - Curing & Formwork Dismantling	3	3	01-Feb-17	03-Feb-17	-545	Calendar Day
S10-T5-B4-1230	OHVD Base Slab (North and Middle) - Scaffolding Erection	14	14	19-Mar-17	01-Apr-17	-588	Calendar Day
S10-T5-B4-1240	OHVD Base Slab (North and Middle) - Formwork & Rebar Fixing	13	13	02-Apr-17	14-Apr-17	-588	Calendar Day
S10-T5-B4-1250	OHVD Base Slab (North and Middle) - Concrete & Curing	2	2	15-Apr-17	16-Apr-17	-588	Calendar Day
S10-T5-B4-1260	OHVD Base Slab (North and Middle) - Hanger Wall & Scaffolding to Roof	3	3	17-Apr-17	19-Apr-17	-588	Calendar Day
S10-T5-B4-1310	OHVD Base Slab (South) - Scaffolding Erection	8	8	03-Mar-17	10-Mar-17	-560	Calendar Day
S10-T5-B4-1320	OHVD Base Slab (South) - Formwork & Rebar Fixing	7	7	11-Mar-17	17-Mar-17	-560	Calendar Day
S10-T5-B4-1330	OHVD Base Slab (South) - Concrete & Curing	2	2	18-Mar-17	19-Mar-17	-560	Calendar Day
S10-T5-B4-1340	OHVD Base Slab (South) - Hanger Wall & Scaffolding to Roof	3	3	20-Mar-17	22-Mar-17	-560	Calendar Day
S10-T5-B4-1350	Roof - Waterproofing	7	7	20-Apr-17	26-Apr-17	-588	Calendar Day
S10-T5-B4-1360	Roof - Rebar Fixing & Formwork	14	14	27-Apr-17	11-May-17	-588	Calendar Day
Bay 3 (3 Cells)							
S10-T5-B3-1050	Wall (North) - Waterproofing & Working Platform	4	4	01-Mar-17	05-Mar-17	-544	Calendar Day
S10-T5-B3-1060	Wall (North) - Rebar Fixing	3	3	05-Mar-17	08-Mar-17	-544	Calendar Day
S10-T5-B3-1070	Wall (North) - Formwork	3	3	15-Mar-17	18-Mar-17	-551	Calendar Day
S10-T5-B3-1080	Wall (North) - Concrete	1	1	18-Mar-17	19-Mar-17	-547	Calendar Day
S10-T5-B3-1090	Wall (North) - Curing & Formwork Dismantling	3	3	19-Mar-17	22-Mar-17	-547	Calendar Day
S10-T5-B3-1100	Wall (South) - Waterproofing & Working Platform	4	4	05-Mar-17	09-Mar-17	-528	Calendar Day
S10-T5-B3-1110	Wall (South) - Rebar Fixing	3	3	09-Mar-17	12-Mar-17	-528	Calendar Day
S10-T5-B3-1120	Wall (South) - Formwork	3	3	18-Mar-17	21-Mar-17	-534	Calendar Day
S10-T5-B3-1130	Wall (South) - Concrete	1	1	21-Mar-17	22-Mar-17	-534	Calendar Day
S10-T5-B3-1140	Wall (South) - Curing & Formwork Dismantling	3	3	22-Mar-17	25-Mar-17	-534	Calendar Day
S10-T5-B3-1150	Wall (Middle North) - Rebar Fixing & Working Platform	5	5	01-Mar-17	06-Mar-17	-539	Calendar Day
S10-T5-B3-1160	Wall (Middle North) - Formwork	3	3	18-Mar-17	21-Mar-17	-551	Calendar Day
S10-T5-B3-1170	Wall (Middle North) - Concrete	1	1	21-Mar-17	22-Mar-17	-551	Calendar Day
S10-T5-B3-1180	Wall (Middle North) - Curing & Formwork Dismantling	4	4	22-Mar-17	26-Mar-17	-551	Calendar Day
S10-T5-B3-1190	Wall (Middle South) - Rebar Fixing & Working Platform	5	5	01-Mar-17	06-Mar-17	-525	Calendar Day
S10-T5-B3-1200	Wall (Middle South) - Formwork	3	3	06-Mar-17	09-Mar-17	-525	Calendar Day
S10-T5-B3-1210	Wall (Middle South) - Concrete	1	1	09-Mar-17	10-Mar-17	-523	Calendar Day
S10-T5-B3-1220	Wall (Middle South) - Curing & Formwork Dismantling	4	4	10-Mar-17	14-Mar-17	-523	Calendar Day
S10-T5-B3-1230	OHVD Base Slab (North & Middle) - Scaffolding Erection	14	14	26-Mar-17	09-Apr-17	-551	Calendar Day
S10-T5-B3-1240	OHVD Base Slab (North & Middle) - Formwork & Rebar Fixing	13	13	09-Apr-17	22-Apr-17	-551	Calendar Day
S10-T5-B3-1310	OHVD Base Slab (South) - Scaffolding Erection	8	8	25-Mar-17	02-Apr-17	-534	Calendar Day
S10-T5-B3-1320	OHVD Base Slab (South) - Formwork & Rebar Fixing	7	7	29-Mar-17	05-Apr-17	-534	Calendar Day
S10-T5-B3-1330	OHVD Base Slab (South) - Concrete & Curing	2	2	05-Apr-17	07-Apr-17	-534	Calendar Day
S10-T5-B3-1340	OHVD Base Slab (South) - Hanger Wall & Scaffolding to Roof	3	3	07-Apr-17	10-Apr-17	-530	Calendar Day
Bay 2 (3 Cells)							
S10-T5-B2-1060	Wall (North) - Waterproofing & Working Platform	4	4	20-Jan-17	23-Jan-17	-504	Calendar Day
S10-T5-B2-1070	Wall (North) - Rebar Fixing	3	3	24-Jan-17	26-Jan-17	-504	Calendar Day
S10-T5-B2-1080	Wall (North) - Formwork	3	3	27-Jan-17	29-Jan-17	-504	Calendar Day
S10-T5-B2-1090	Wall (North) - Concrete	1	1	30-Jan-17	30-Jan-17	-500	Calendar Day
S10-T5-B2-1100	Wall (North) - Curing & Formwork Dismantling	3	3	31-Jan-17	02-Feb-17	-500	Calendar Day
S10-T5-B2-1110	Wall (South) - Waterproofing & Working Platform	4	4	24-Jan-17	27-Jan-17	-488	Calendar Day
S10-T5-B2-1120	Wall (South) - Rebar Fixing	3	3	28-Jan-17	30-Jan-17	-488	Calendar Day
S10-T5-B2-1130	Wall (South) - Formwork	3	3	05-Feb-17	07-Feb-17	-493	Calendar Day
S10-T5-B2-1140	Wall (South) - Concrete	1	1	08-Feb-17	08-Feb-17	-493	Calendar Day
S10-T5-B2-1150	Wall (South) - Curing & Formwork Dismantling	3	3	09-Feb-17	11-Feb-17	-493	Calendar Day
S10-T5-B2-1160	Wall (Middle North) - Rebar Fixing & Working Platform	5	5	20-Jan-17	24-Jan-17	-499	Calendar Day
S10-T5-B2-1170	Wall (Middle North) - Formwork	3	3	30-Jan-17	01-Feb-17	-504	Calendar Day
S10-T5-B2-1180	Wall (Middle North) - Concrete	1	1	02-Feb-17	02-Feb-17	-504	Calendar Day
S10-T5-B2-1190	Wall (Middle North) - Curing & Formwork Dismantling	4	4	03-Feb-17	06-Feb-17	-504	Calendar Day
S10-T5-B2-1200	Wall (Middle South) - Rebar Fixing & Working Platform	5	5	20-Jan-17	24-Jan-17	-485	Calendar Day



◆ Milestone
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CHUN WO - CRGL

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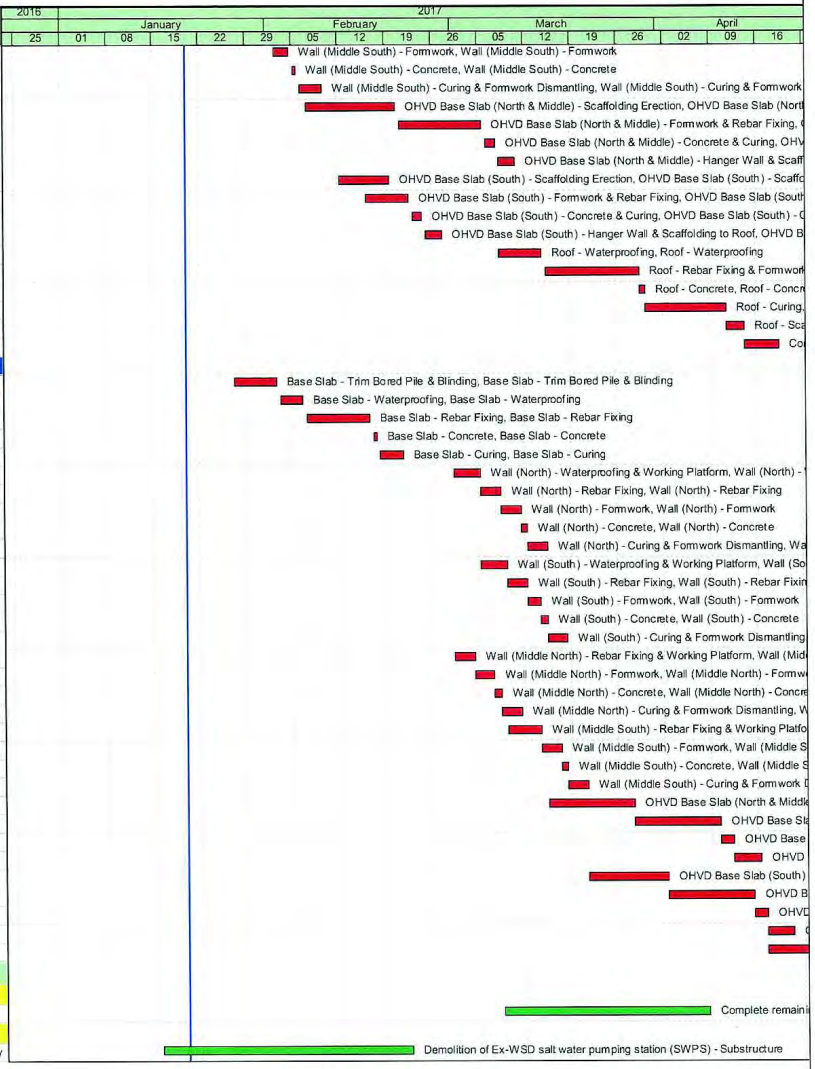
S10-T5-B2-1210	Wall (Middle South) - Formwork	3	3	02-Feb-17	04-Feb-17	-493	Calendar Day
S10-T5-B2-1220	Wall (Middle South) - Concrete	1	1	05-Feb-17	05-Feb-17	-491	Calendar Day
S10-T5-B2-1230	Wall (Middle South) - Curing & Formwork Dismantling	4	4	06-Feb-17	09-Feb-17	-491	Calendar Day
S10-T5-B2-1240	OHVD Base Slab (North & Middle) - Scaffolding Erection	14	14	07-Feb-17	20-Feb-17	-504	Calendar Day
S10-T5-B2-1250	OHVD Base Slab (North & Middle) - Formwork & Rebar Fixing	13	13	21-Feb-17	05-Mar-17	-504	Calendar Day
S10-T5-B2-1260	OHVD Base Slab (North & Middle) - Concrete & Curing	2	2	06-Mar-17	07-Mar-17	-504	Calendar Day
S10-T5-B2-1270	OHVD Base Slab (North & Middle) - Hanger Wall & Scaffolding to Roof	3	3	08-Mar-17	10-Mar-17	-500	Calendar Day
S10-T5-B2-1280	OHVD Base Slab (South) - Scaffolding Erection	8	8	12-Feb-17	19-Feb-17	-493	Calendar Day
S10-T5-B2-1290	OHVD Base Slab (South) - Formwork & Rebar Fixing	7	7	16-Feb-17	22-Feb-17	-493	Calendar Day
S10-T5-B2-1300	OHVD Base Slab (South) - Concrete & Curing	2	2	23-Feb-17	24-Feb-17	-493	Calendar Day
S10-T5-B2-1310	OHVD Base Slab (South) - Hanger Wall & Scaffolding to Roof	3	3	25-Feb-17	27-Feb-17	-489	Calendar Day
S10-T5-B2-1320	Roof - Waterproofing	7	7	08-Mar-17	14-Mar-17	-504	Calendar Day
S10-T5-B2-1330	Roof - Rebar Fixing & Formwork	14	14	15-Mar-17	29-Mar-17	-504	Calendar Day
S10-T5-B2-1340	Roof - Concrete	1	1	29-Mar-17	30-Mar-17	-504	Calendar Day
S10-T5-B2-1350	Roof - Curing	12	12	30-Mar-17	11-Apr-17	-504	Calendar Day
S10-T5-B2-1360	Roof - Scaffolding Dismantling	3	3	11-Apr-17	14-Apr-17	-504	Calendar Day
S10-T5-B2-1400	Construct Roadside Barriers	5	5	14-Apr-17	19-Apr-17	-504	Calendar Day
Bay 1 (3 Cells) (Western End Bay)							
S10-T5-B1-1000	Base Slab - Trim Bored Pile & Blinding	7	7	27-Jan-17	02-Feb-17	-551	Calendar Day
S10-T5-B1-1010	Base Slab - Waterproofing	4	4	03-Feb-17	06-Feb-17	-551	Calendar Day
S10-T5-B1-1020	Base Slab - Rebar Fixing	10	10	07-Feb-17	16-Feb-17	-551	Calendar Day
S10-T5-B1-1030	Base Slab - Concrete	1	1	17-Feb-17	17-Feb-17	-551	Calendar Day
S10-T5-B1-1040	Base Slab - Curing	4	4	18-Feb-17	21-Feb-17	-551	Calendar Day
S10-T5-B1-1050	Wall (North) - Waterproofing & Working Platform	4	4	01-Mar-17	05-Mar-17	-551	Calendar Day
S10-T5-B1-1060	Wall (North) - Rebar Fixing	3	3	05-Mar-17	08-Mar-17	-551	Calendar Day
S10-T5-B1-1070	Wall (North) - Formwork	3	3	08-Mar-17	11-Mar-17	-551	Calendar Day
S10-T5-B1-1080	Wall (North) - Concrete	1	1	11-Mar-17	12-Mar-17	-551	Calendar Day
S10-T5-B1-1090	Wall (North) - Curing & Formwork Dismantling	3	3	12-Mar-17	15-Mar-17	-551	Calendar Day
S10-T5-B1-1100	Wall (South) - Waterproofing & Working Platform	4	4	05-Mar-17	09-Mar-17	-549	Calendar Day
S10-T5-B1-1110	Wall (South) - Rebar Fixing	3	3	09-Mar-17	12-Mar-17	-549	Calendar Day
S10-T5-B1-1120	Wall (South) - Formwork	2	2	12-Mar-17	14-Mar-17	-546	Calendar Day
S10-T5-B1-1130	Wall (South) - Concrete	1	1	14-Mar-17	15-Mar-17	-546	Calendar Day
S10-T5-B1-1140	Wall (South) - Curing & Formwork Dismantling	3	3	15-Mar-17	18-Mar-17	-546	Calendar Day
S10-T5-B1-1150	Wall (Middle North) - Rebar Fixing & Working Platform	3	3	01-Mar-17	04-Mar-17	-540	Calendar Day
S10-T5-B1-1160	Wall (Middle North) - Formwork	3	3	04-Mar-17	07-Mar-17	-540	Calendar Day
S10-T5-B1-1170	Wall (Middle North) - Concrete	1	1	07-Mar-17	08-Mar-17	-540	Calendar Day
S10-T5-B1-1180	Wall (Middle North) - Curing & Formwork Dismantling	3	3	08-Mar-17	11-Mar-17	-540	Calendar Day
S10-T5-B1-1185	Wall (Middle South) - Rebar Fixing & Working Platform	5	5	09-Mar-17	14-Mar-17	-549	Calendar Day
S10-T5-B1-1190	Wall (Middle South) - Formwork	3	3	14-Mar-17	17-Mar-17	-549	Calendar Day
S10-T5-B1-1200	Wall (Middle South) - Concrete	1	1	17-Mar-17	18-Mar-17	-549	Calendar Day
S10-T5-B1-1210	Wall (Middle South) - Curing & Formwork Dismantling	3	3	18-Mar-17	21-Mar-17	-549	Calendar Day
S10-T5-B1-1230	OHVD Base Slab (North & Middle) - Scaffolding Erection	13	13	15-Mar-17	28-Mar-17	-544	Calendar Day
S10-T5-B1-1240	OHVD Base Slab (North & Middle) - Formwork & Rebar Fixing	13	13	28-Mar-17	10-Apr-17	-544	Calendar Day
S10-T5-B1-1250	OHVD Base Slab (North & Middle) - Concrete & Curing	2	2	10-Apr-17	12-Apr-17	-544	Calendar Day
S10-T5-B1-1260	OHVD Base Slab (North & Middle) - Hanger Wall & Scaffolding to Roof	4	4	12-Apr-17	16-Apr-17	-541	Calendar Day
S10-T5-B1-1310	OHVD Base Slab (South) - Scaffolding Erection	12	12	21-Mar-17	02-Apr-17	-549	Calendar Day
S10-T5-B1-1320	OHVD Base Slab (South) - Formwork & Rebar Fixing	13	13	02-Apr-17	15-Apr-17	-549	Calendar Day
S10-T5-B1-1330	OHVD Base Slab (South) - Concrete & Curing	2	2	15-Apr-17	17-Apr-17	-549	Calendar Day
S10-T5-B1-1340	OHVD Base Slab (South) - Hanger Wall & Scaffolding to Roof	4	4	17-Apr-17	21-Apr-17	-546	Calendar Day
S10-T5-B1-1350	Roof - Waterproofing	7	7	17-Apr-17	24-Apr-17	-549	Calendar Day
Section 11 of the Works - Remainder of Works							
Marine Works at WCR2							
S11-R2-1900	Complete remaining works of removing armour stone, berm stone and vertical seawall down to +1.5mPD	31	31	08-Mar-17	08-Apr-17	41	Calendar Day
Demolition Works							
S11-DEMO-1102	Demolition of Ex-WSD salt water pumping station (SWPS) - Substructure	26	26	16-Jan-17 A	22-Feb-17	77	HK Working Day



◆ Milestone
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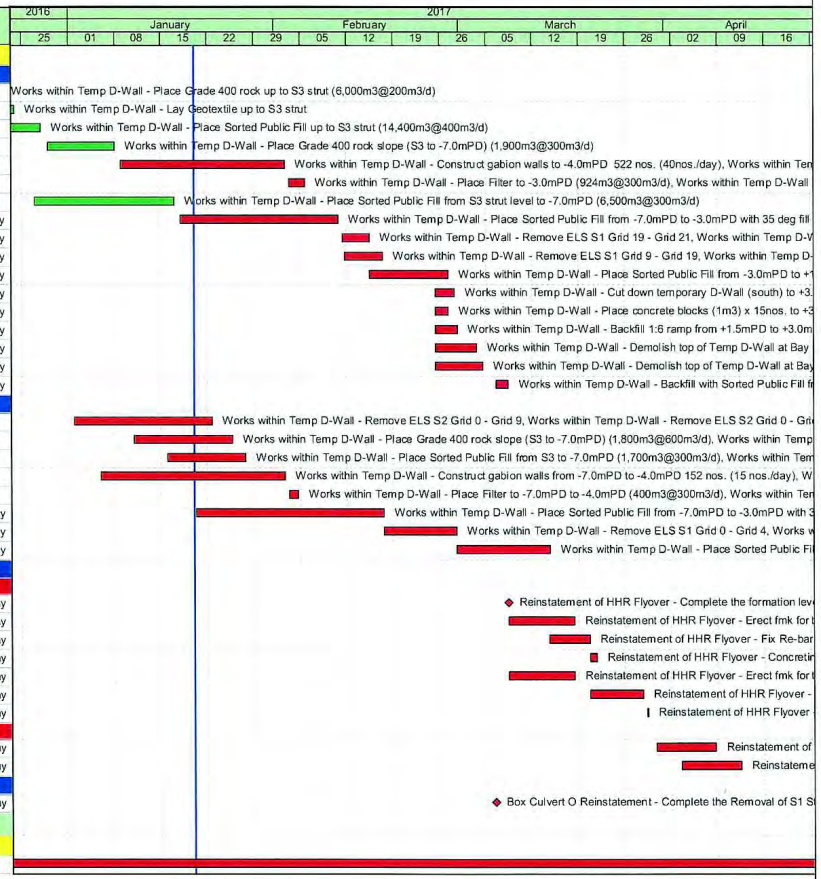
Misc. Works							
Removal of Temporary Reclamation CH 3710 to CH 3790 (East)							
S11-RTC-3020	Works within Temp D-Wall - Place Grade 400 rock up to S3 strut (6,000m3@200m3/d)	30	0	28-Nov-16 A	22-Dec-16 A		Calendar Day
S11-RTC-3022	Works within Temp D-Wall - Lay Geotextile up to S3 strut	2	0	23-Dec-16 A	24-Dec-16 A		Calendar Day
S11-RTC-3024	Works within Temp D-Wall - Place Sorted Public Fill up to S3 strut (14,400m3@400m3/d)	40	0	07-Nov-16 A	28-Dec-16 A		Calendar Day
S11-RTC-3030	Works within Temp D-Wall - Place Grade 400 rock slope (S3 to -7.0mPD) (1,900m3@300m3/d)	7	0	29-Dec-16 A	08-Jan-17 A		Calendar Day
S11-RTC-3040	Works within Temp D-Wall - Construct gabion walls to -4.0mPD 522 nos. (40nos./day)	14	14	09-Jan-17 A	02-Feb-17	-566	Calendar Day
S11-RTC-3047	Works within Temp D-Wall - Place Filter to -3.0mPD (924m3@300m3/d)	3	3	03-Feb-17	05-Feb-17	-566	Calendar Day
S11-RTC-3049	Works within Temp D-Wall - Place Sorted Public Fill from S3 strut level to -7.0mPD (6,500m3@300m3/d)	22	0	27-Dec-16 A	17-Jan-17 A		Calendar Day
S11-RTC-3055	Works within Temp D-Wall - Place Sorted Public Fill from -7.0mPD to -3.0mPD with 35 deg fill slope (9,700m3@600m3/d)	16	15	18-Jan-17 A	10-Feb-17	-511	HK Working Day
S11-RTC-3057	Works within Temp D-Wall - Remove ELS S1 Grid 19 - Grid 21	4	4	11-Feb-17	15-Feb-17	-511	HK Working Day
S11-RTC-3058	Works within Temp D-Wall - Remove ELS S1 Grid 9 - Grid 19	5	5	11-Feb-17	17-Feb-17	-511	HK Working Day
S11-RTC-3059	Works within Temp D-Wall - Place Sorted Public Fill from -3.0mPD to +1.5mPD with 35 deg fill slope (6,500m3@600m3/d)	11	11	15-Feb-17	27-Feb-17	-511	HK Working Day
S11-RTC-3060	Works within Temp D-Wall - Cut down temporary D-Wall (south) to +3.0mPD	2	2	25-Feb-17	28-Feb-17	-511	HK Working Day
S11-RTC-3065	Works within Temp D-Wall - Place concrete blocks (1m3) x 15nos. to +3.0mPD	1	1	25-Feb-17	27-Feb-17	-507	HK Working Day
S11-RTC-3066	Works within Temp D-Wall - Backfill 1:6 ramp from +1.5mPD to +3.0mPD	3	3	25-Feb-17	28-Feb-17	-507	HK Working Day
S11-RTC-3068	Works within Temp D-Wall - Demolish top of Temp D-Wall at Bay 1 and Bay 2 (+2.425mPD) of HHR bridge	6	6	25-Feb-17	03-Mar-17	-507	HK Working Day
S11-RTC-3069	Works within Temp D-Wall - Demolish top of Temp D-Wall at Bay 3 (+0.925mPD) of HHR bridge	7	7	25-Feb-17	04-Mar-17	-511	HK Working Day
S11-RTC-3070	Works within Temp D-Wall - Backfill with Sorted Public Fill from +1.5mPD to +2.75mPD to formation level of HHR bridge	2	2	06-Mar-17	08-Mar-17	-511	HK Working Day
Removal of Temporary Reclamation CH 3630 to CH 3710 (West)							
S11-RTC-3238	Works within Temp D-Wall - Remove ELS S2 Grid 0 - Grid 9	10	3	02-Jan-17 A	22-Jan-17	-450	Calendar Day
S11-RTC-3242	Works within Temp D-Wall - Place Grade 400 rock slope (S3 to -7.0mPD) (1,800m3@600m3/d)	3	3	11-Jan-17 A	25-Jan-17	-450	Calendar Day
S11-RTC-3246	Works within Temp D-Wall - Place Sorted Public Fill from S3 to -7.0mPD (1,700m3@300m3/d)	6	8	16-Jan-17 A	27-Jan-17	-453	Calendar Day
S11-RTC-3250	Works within Temp D-Wall - Construct gabion walls from -7.0mPD to -4.0mPD 152 nos. (15 nos./day)	11	14	06-Jan-17 A	02-Feb-17	-456	Calendar Day
S11-RTC-3252	Works within Temp D-Wall - Place Filter to -7.0mPD to -4.0mPD (400m3@300m3/d)	2	2	03-Feb-17	04-Feb-17	-456	Calendar Day
S11-RTC-3256	Works within Temp D-Wall - Place Sorted Public Fill from -7.0mPD to -3.0mPD with 35 deg fill slope (4,150m3@200m3/d)	21	21	20-Jan-17	17-Feb-17	-414	HK Working Day
S11-RTC-3257	Works within Temp D-Wall - Remove ELS S1 Grid 0 - Grid 4	10	10	17-Feb-17	28-Feb-17	-414	HK Working Day
S11-RTC-3258	Works within Temp D-Wall - Place Sorted Public Fill from -3.0mPD to +1.5mPD with 35 deg fill slope (2,800m3@200m3/d)	14	14	28-Feb-17	14-Mar-17	-414	HK Working Day
Hung Hing Road Flyover Reinstatement							
Hung Hing Road Flyover - Abutments							
S11-HH-4009	Reinstatement of HHR Flyover - Complete the formation level for the HHR abutments	0	0		08-Mar-17	-511	HK Working Day
S11-HH-4016	Reinstatement of HHR Flyover - Erect fmk for the west abutment	10	10	08-Mar-17	18-Mar-17	-511	HK Working Day
S11-HH-4017	Reinstatement of HHR Flyover - Fix Re-bars for the west abutment	6	6	14-Mar-17	20-Mar-17	-511	HK Working Day
S11-HH-4018	Reinstatement of HHR Flyover - Concreting for the west abutment	1	1	20-Mar-17	21-Mar-17	-507	HK Working Day
S11-HH-4019	Reinstatement of HHR Flyover - Erect fmk for the east abutment	10	10	08-Mar-17	18-Mar-17	-503	HK Working Day
S11-HH-4020	Reinstatement of HHR Flyover - Fix Re-bars for the east abutment	8	8	20-Mar-17	28-Mar-17	-511	HK Working Day
S11-HH-4021	Reinstatement of HHR Flyover - Concreting for the east abutment	0	0	29-Mar-17	29-Mar-17	-511	HK Working Day
Hung Hing Road Flyover - Deck Construction							
S11-HH-4027	Reinstatement of HHR Flyover - Erect falsework and fmk for the bridge decking	8	8	30-Mar-17	08-Apr-17	-511	HK Working Day
S11-HH-4032	Reinstatement of HHR Flyover - Fix Re-bars for the bridge decking	8	8	03-Apr-17	12-Apr-17	-511	HK Working Day
Reinstatement of Box Culvert O							
S11-BCO-2005	Box Culvert O Reinstatement - Complete the Removal of S1 Strut at the east of Grid 17	0	0		06-Mar-17	-108	HK Working Day
Soft Landscaping & Establishment Works							
Section 12 of the Works - Protection and Preservation of Existing Trees							
S12-0010	Protection and preservation of existing trees	2111	429	24-Feb-10 A	24-Mar-18	-310	Calendar Day



◆ Milestone
◆ Critical Milestones
Current Works
Critical Works
Remaining Level of Effort

CHUN WO - CRGL

JOINT VENTURE

CEDD CONTRACT NO. HK/2009/02

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

3-MONTH ROLLING PROGRAMME (dd 20-Jan-17)

Date	Revision	Checked	Approved
	Rev. Programme (08.12.16)		

Activity ID	Activity Name	Original Duration	Start	Finish
Total		1791d	21-Mar-13 A	14-Dec-17
DWP-07 (5) - Update Progress As of 20 Dec 16		1791d	21-Mar-13 A	14-Dec-17
Works in KD7		137d	03-Oct-16 A	24-Mar-17
Works in TS3-West		137d	03-Oct-16 A	24-Mar-17
Tunnel Structure		137d	03-Oct-16 A	24-Mar-17
TS3W CCT Structure (Mainline E/B, W/B Tunnel)		60d	03-Oct-16 A	14-Jan-17
Wall & CP of Tunnel Structure Northern & Southern Tunnel E/B & W/B - 4,000 m3 + SM(A), SM(B), TF(A)		22d	21-Nov-16 A	22-Dec-16 A
Bay 2		5d	25-Nov-16 A	06-Dec-16 A
A1500	Spray Type Waterproofing, Protection Board and Backfilling (EP02 Construction Controlled)	5d	25-Nov-16 A	06-Dec-16 A
Bay 3		10d	25-Nov-16 A	04-Dec-16 A
A1530	Spray Type Waterproofing, Protection Board and Backfilling	10d	25-Nov-16 A	04-Dec-16 A
Bay 4		10d	21-Nov-16 A	09-Dec-16 A
A1560	Spray Type Waterproofing, Protection Board and Backfilling for SR8 Tunnel Construction	10d	21-Nov-16 A	09-Dec-16 A
Bay 5		10d	08-Dec-16 A	09-Dec-16 A
A1590	Spray Type Waterproofing, Protection Board and Backfilling for SR8 Tunnel Construction	10d	08-Dec-16 A	09-Dec-16 A
Bay 6		10d	09-Dec-16 A	12-Dec-16 A
A1620	Spray Type Waterproofing, Protection Board and Backfilling for SR8 Tunnel Construction (EP03 Construction controlled)	10d	09-Dec-16 A	12-Dec-16 A
Bay 7		10d	11-Dec-16 A	12-Dec-16 A
A1650	Spray Type Waterproofing, Protection Board and Backfilling for SR8 Tunnel Construction	10d	11-Dec-16 A	12-Dec-16 A
Bay 8		14d	30-Nov-16 A	22-Dec-16 A
A1690	Removal of 6th and 7th layer ELS	14d	30-Nov-16 A	08-Dec-16 A
A1720	Backfilling for construction of SR8B	6d	11-Dec-16 A	18-Dec-16 A
A1680	Waterproofing and repropping installation	5d	19-Dec-16 A	22-Dec-16 A
OHVD, Maintenance Walkway & Profile Barrier Construction (Northern & Southern Tunnel E/B & W/B		27d	08-Dec-16 A	06-Jan-17
Bay 8		27d	08-Dec-16 A	06-Jan-17
A1880	Bay S8 OHVD and Kicker Wall, Maintenance Walkway and Profile Barrier	8d	08-Dec-16 A	19-Dec-16 A
A1870	Bay N8 OHVD and Kicker Wall, Maintenance Walkway and Profile Barrier	8d	30-Dec-16	06-Jan-17
Bay 9		21d	12-Dec-16 A	03-Jan-17
A1900	Bay S9 OHVD and Kicker Wall, Maintenance Walkway and Profile Barrier	5d	12-Dec-16 A	21-Dec-16 A
A1890	Bay N9 OHVD and Kicker Wall, Maintenance Walkway and Profile Barrier	5d	30-Dec-16	03-Jan-17
Top Slab (Northern and Southern Side Tunnel E/B and W/B - 18000 m3)		47d	03-Oct-16 A	14-Jan-17
Bay 1		30d	08-Nov-16 A	14-Jan-17
A2090	Bulkhead Breakthrough of TS3E/TS3W	30d	08-Nov-16 A	14-Jan-17
Bay 6		11d	03-Oct-16 A	03-Dec-16 A
A2020	Bay S6R Top Slab (29m approx.)	11d	03-Oct-16 A	30-Nov-16 A
A2010	Bay N6R Top Slab (27m approx.)	11d	05-Oct-16 A	03-Dec-16 A
Bay 7		17d	31-Oct-16 A	09-Dec-16 A
A2040	Bay S7R Top Slab (29m approx.)	10d	31-Oct-16 A	07-Dec-16 A
A2030	Bay N7R Top Slab (26m approx.)	10d	07-Nov-16 A	09-Dec-16 A
Bay 8		6d	12-Dec-16 A	12-Jan-17
A2060	Bay S8R Top Slab (29m approx.)	5d	12-Dec-16 A	03-Jan-17
A2050	Bay N8R Top Slab (26m approx.)	6d	22-Dec-16 A	12-Jan-17
Bay 9		1d	08-Dec-16 A	04-Jan-17

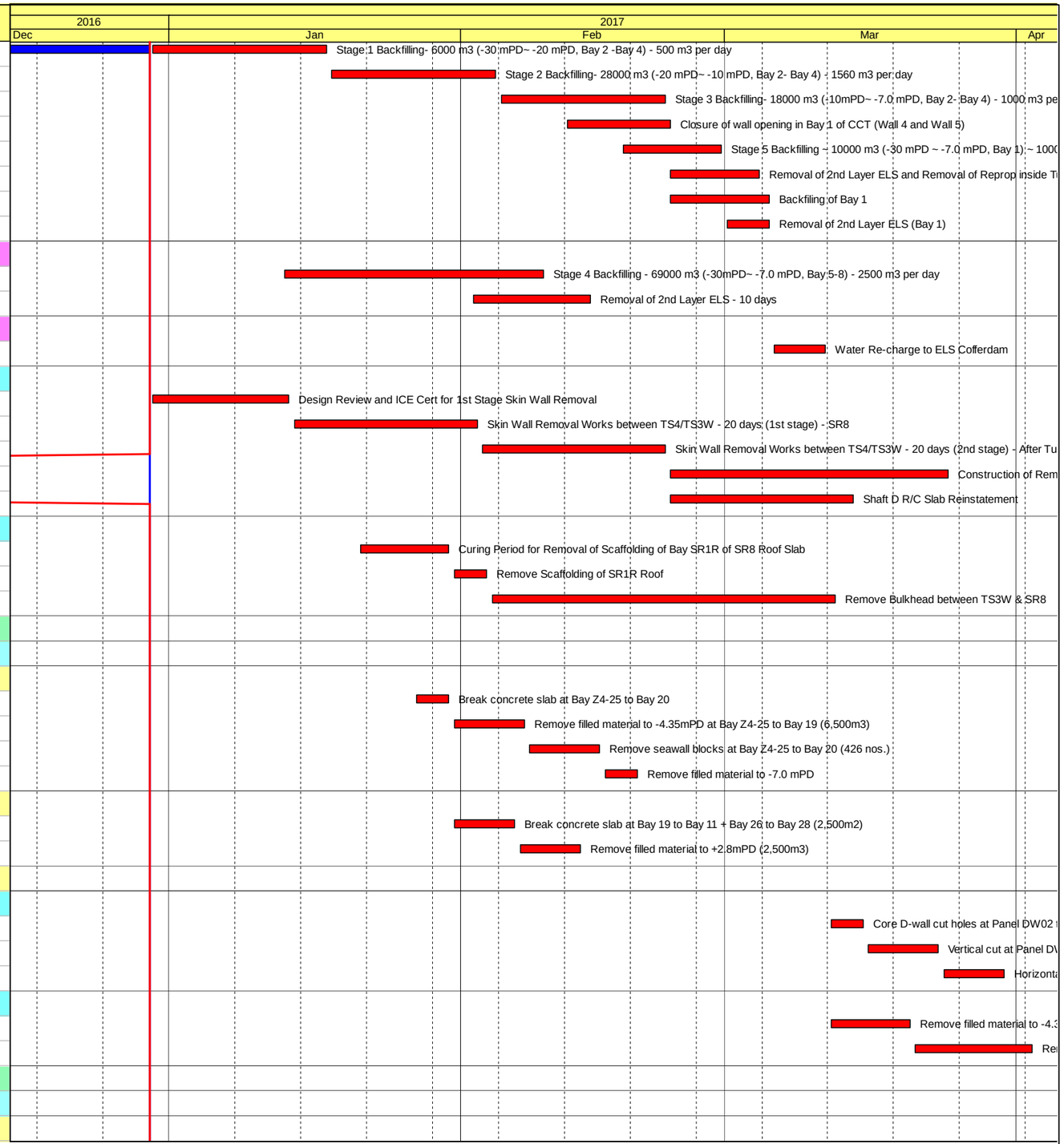
Actual Work
Remaining Work
Critical Remaining Work
Milestone

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

Date	Revision	Checked	Approved
30-Dec-16	DWP-07 (5) - 3 Months Rolling	FS	TL

Activity ID	Activity Name	Original Duration	Start	Finish
A2080	Bay S9R Top Slab (29m approx.)	1d	08-Dec-16 A	30-Dec-16
A2070	Bay N9R Top Slab (26m approx.)	1d	17-Dec-16 A	04-Jan-17
SR8 Tunnel Structure		96d	13-Nov-16 A	16-Feb-17
Base Slab of Slip Road 8 (SR8) - 8000 m3		73d	13-Nov-16 A	24-Jan-17
A2130	Placement of Seawall Blocks for SR4B Construction	8d	13-Nov-16 A	30-Dec-16
A2150	Placement of Seawall Blocks for SR5B Construction	8d	18-Nov-16 A	01-Jan-17
A2170	Placement of Seawall Blocks for SR6B Construction	8d	16-Dec-16 A	02-Jan-17
A2200	Bay SR8B	8d	30-Dec-16	06-Jan-17
A2140	Bay SR4B	7d	31-Dec-16	06-Jan-17
A2160	Bay SR5B	7d	01-Jan-17	08-Jan-17
A2180	Bay SR6B	5d	02-Jan-17	07-Jan-17
A2190	Bay SR7B	5d	11-Jan-17	15-Jan-17
A2110	Breaking to the Cut Off Level of Diaphragm Wall to be Carried Out after Bay S3R Completion	2d	18-Jan-17	19-Jan-17
A2120	Bay SR3B	5d	20-Jan-17	24-Jan-17
Wall Structure of SR8 - 2500 m3		27d	07-Jan-17	02-Feb-17
A2230	Removal of 4th layer and 5th layer ELS	6d	07-Jan-17	12-Jan-17
A2270	Removal of 4th layer and 5th layer ELS	6d	07-Jan-17	13-Jan-17
A2250	Removal of 4th layer and 5th layer ELS	6d	08-Jan-17	14-Jan-17
A2240	Bay SR4 Walls	7d	13-Jan-17	19-Jan-17
A2280	Bay SR6 Walls	7d	13-Jan-17	20-Jan-17
A2260	Bay SR5 Walls	7d	14-Jan-17	21-Jan-17
A2290	Removal of 5th layer ELS	4d	16-Jan-17	19-Jan-17
A2300	Bay SR7 Walls	5d	20-Jan-17	24-Jan-17
A2210	Removal of 4th layer and 5th layer ELS	4d	25-Jan-17	28-Jan-17
A2220	Bay SR3 Walls	5d	29-Jan-17	02-Feb-17
OHVD Structure, Maintenance Walkway and Profile Barrier of SR8 - 2000 m3		35d	04-Jan-17	07-Feb-17
A2320	Bay SR1R OHVD, Maintenance Walkway and Profile Barrier	7d	04-Jan-17*	10-Jan-17
A2380	Removal of 5th Layer ELS	5d	07-Jan-17	11-Jan-17
A2390	Bay SR8R OHVD, Maintenance Walkway and Profile Barrier	4d	12-Jan-17	15-Jan-17
A2340	Bay SR4R OHVD, Maintenance Walkway and Profile Barrier	5d	20-Jan-17	24-Jan-17
A2360	Bay SR6R OHVD, Maintenance Walkway and Profile Barrier	4d	20-Jan-17	24-Jan-17
A2350	Bay SR5R OHVD, Maintenance Walkway and Profile Barrier	7d	21-Jan-17	28-Jan-17
A2370	Bay SR7R OHVD, Maintenance Walkway and Profile Barrier	4d	25-Jan-17	28-Jan-17
A2330	Bay SR3R OHVD, Maintenance Walkway and Profile Barrier	5d	03-Feb-17	07-Feb-17
Top Slab of SR8 - 12000 m3		37d	11-Jan-17	16-Feb-17
A2400	Bay SR1R	10d	11-Jan-17	20-Jan-17
A2460	Bay SR8R	9d	16-Jan-17	24-Jan-17
A2440	Bay SR6R	9d	24-Jan-17	02-Feb-17
A2420	Bay SR4R	6d	25-Jan-17	30-Jan-17
A2430	Bay SR5R	8d	28-Jan-17	05-Feb-17
A2450	Bay SR7R	9d	29-Jan-17	06-Feb-17
A2410	Bay SR3R	7d	10-Feb-17	16-Feb-17
Earthwork Backfilling, ELS Removal and Water Recharging		122d	10-Nov-16 A	11-Mar-17
East Portion		116d	10-Nov-16 A	05-Mar-17

Activity ID	Activity Name	Original Duration	Start	Finish
A2470	Stage 1 Backfilling- 6000 m3 (-30 mPD~ -20 mPD, Bay 2 -Bay 4) - 500 m3 per day	13d	10-Nov-16 A	17-Jan-17
A2480	Stage 2 Backfilling- 28000 m3 (-20 mPD~ -10 mPD, Bay 2- Bay 4) - 1560 m3 per day	18d	18-Jan-17	04-Feb-17
A2490	Stage 3 Backfilling- 18000 m3 (-10mPD~ -7.0 mPD, Bay 2- Bay 4) - 1000 m3 per day	18d	05-Feb-17	22-Feb-17
A2510	Closure of wall opening in Bay 1 of CCT (Wall 4 and Wall 5)	11d	12-Feb-17	23-Feb-17
A2520	Stage 5 Backfilling ~ 10000 m3 (-30 mPD ~ -7.0 mPD, Bay 1) ~ 1000 m3 per day	11d	18-Feb-17	28-Feb-17
A2500	Removal of 2nd Layer ELS and Removal of Reprop inside Tunnel (Bay 2- Bay 4)	10d	23-Feb-17	04-Mar-17
A2515	Backfiling of Bay 1	11d	23-Feb-17	05-Mar-17
A2530	Removal of 2nd Layer ELS (Bay 1)	5d	01-Mar-17	05-Mar-17
West Portion		33d	13-Jan-17	14-Feb-17
A2540	Stage 4 Backfilling - 69000 m3 (-30mPD~ -7.0 mPD, Bay 5-8) - 2500 m3 per day	28d	13-Jan-17	09-Feb-17
A2550	Removal of 2nd Layer ELS - 10 days	13d	02-Feb-17	14-Feb-17
Water Recharge (CNY- 27/1~ 2/2)		6d	06-Mar-17	11-Mar-17
A2560	Water Re-charge to ELS Cofferdam	6d	06-Mar-17	11-Mar-17
Skin Wall Removal Works between TS4/TS3W and Shaft D Closure		85d	30-Dec-16	24-Mar-17
A2570	Design Review and ICE Cert for 1st Stage Skin Wall Removal	15d	30-Dec-16	13-Jan-17
A2580	Skin Wall Removal Works between TS4/TS3W - 20 days (1st stage) - SR8	20d	14-Jan-17	02-Feb-17
A2590	Skin Wall Removal Works between TS4/TS3W - 20 days (2nd stage) - After Tunnel Roof Slab Completion - E/B and W/B	20d	03-Feb-17	22-Feb-17
A2600	Construction of Remaining Tunnel Structure between CH. 4260.2- 4265.2 at SOL T100 for Mainline E/B, W/B, SR8	30d	23-Feb-17	24-Mar-17
A2610	Shaft D R/C Slab Reinstatement	20d	23-Feb-17	14-Mar-17
Removal Bulkhead at CH525 (TS3W / SR8 Junction)		51d	21-Jan-17	12-Mar-17
A4830	Curing Period for Removal of Scaffolding of Bay SR1R of SR8 Roof Slab	10d	21-Jan-17	30-Jan-17
A5180	Remove Scaffolding of SR1R Roof	4d	31-Jan-17	03-Feb-17
A6080	Remove Bulkhead between TS3W & SR8	37d	04-Feb-17	12-Mar-17
Works in KD8		66d	27-Jan-17	02-Apr-17
TS3W - Remove Temporary Reclamation		66d	27-Jan-17	02-Apr-17
Stage 1 - North West Corner (Bay Z4-25 to Bay 20)		24d	27-Jan-17	19-Feb-17
A2650	Break concrete slab at Bay Z4-25 to Bay 20	4d	27-Jan-17	30-Jan-17
A2660	Remove filled material to -4.35mPD at Bay Z4-25 to Bay 19 (6,500m3)	8d	31-Jan-17	07-Feb-17
A2670	Remove seawall blocks at Bay Z4-25 to Bay 20 (426 nos.)	8d	08-Feb-17	15-Feb-17
A2680	Remove filled material to -7.0 mPD	4d	16-Feb-17	19-Feb-17
Stage 2 - North to East Side (Bay 19 to Bay 11 + Bay 26 to Bay 28)		14d	31-Jan-17	13-Feb-17
A2690	Break concrete slab at Bay 19 to Bay 11 + Bay 26 to Bay 28 (2,500m2)	7d	31-Jan-17	06-Feb-17
A2700	Remove filled material to +2.8mPD (2,500m3)	7d	07-Feb-17	13-Feb-17
Stage 3 - North to East Side (Bay 19 to bay 26)		22d	12-Mar-17	02-Apr-17
North West D-wall Opening		19d	12-Mar-17	30-Mar-17
A2720	Core D-wall cut holes at Panel DW02 to NA6 (27 nos.)	4d	12-Mar-17	15-Mar-17
A2730	Vertical cut at Panel DW02 to NA6 (19 nos.)	8d	16-Mar-17	23-Mar-17
A2740	Horizontal cut at Panel DW02 to NA6 (25 nos.)	7d	24-Mar-17	30-Mar-17
North East & East		22d	12-Mar-17	02-Apr-17
A2750	Remove filled material to -4.35mPD (22,500m3)	9d	12-Mar-17	20-Mar-17
A2760	Remove seawall blocks at Bay 19 to 11 & Bay 26 to 28 (1,335 nos.)	13d	21-Mar-17	02-Apr-17
Works in KD6		333d	19-Apr-16 A	18-Mar-17
Works in SR8 (Open Cut Method)		333d	19-Apr-16 A	18-Mar-17
SR8 (Zone C) - Ch. 528 to Ch. 368		109d	18-Nov-16 A	18-Mar-17



中國建築工程(香港)有限公司
CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LTD.

Actual Work
Remaining Work
Critical Remaining Work
Milestone

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

Date	Revision	Checked	Approved
30-Dec-16	DWP-07 (5) - 3 Months Rolling	FS	TL

Activity ID	Activity Name	Original Duration	Start	Finish
ELS		46d	19-Nov-16 A	04-Jan-17
Area B (CH475 to CH514) - steel Deck EB + SR8/TS3 Interface		46d	19-Nov-16 A	04-Jan-17
Strut & Waling Installation for SL5		41d	19-Nov-16 A	07-Dec-16 A
A3470	Area B - Waling Installation	6d	19-Nov-16 A	02-Dec-16 A
A3480	Area B - Srrtut Installation for SL5	9d	30-Nov-16 A	03-Dec-16 A
A1621	Area B - Bracing Installation for Layer 2 (Bottom Horizontal & Diagonal)	1d	07-Dec-16 A	07-Dec-16 A
Excavation to -17.9mPD From SL5 to Formation (3,908 m3 / 540m3/D approx.3.3m Depth)		34d	30-Nov-16 A	05-Dec-16 A
A3440	Area B - Excavation 1st cycle (1.2m Depth) & Lagging Plate	4d	30-Nov-16 A	01-Dec-16 A
A3450	Area B - Excavation 2nd cycle (1.2m Depth) & Lagging Plate	4d	02-Dec-16 A	03-Dec-16 A
A3460	Area B - Excavation 3rd cycle (0.9m Depth) & Lagging Plate	3d	04-Dec-16 A	05-Dec-16 A
Excavation for Rock Fill (1000mm Below F.L./1,576 m3/ 540m3/D)		6d	30-Dec-16	04-Jan-17
A3490	Area B - Excavation further down to 1000mm below F.L.	1d	30-Dec-16	30-Dec-16
A3500	Area B - Lay & Compact Rock Fill	4d	31-Dec-16	03-Jan-17
A3510	Area B - Blinding / Divert Ground Water by Submerge Pump	2d	03-Jan-17	04-Jan-17
Tunnel Structure		108d	18-Nov-16 A	18-Mar-17
Area A (CH384 to CH475 - Victoria Park to Steel Deck WB + IEC)		97d	18-Nov-16 A	07-Mar-17
Vertical Blinding Bay C1 to C4		13d	29-Nov-16 A	09-Dec-16 A
A4300	Bay C4	13d	29-Nov-16 A	09-Dec-16 A
Tunnel Structure at Area A - Bay C1 to C4		97d	18-Nov-16 A	07-Mar-17
Bay C2		89d	30-Nov-16 A	05-Mar-17
Structure		41d	30-Nov-16 A	16-Jan-17
1.2m Thick Base Slab		26d	30-Nov-16 A	16-Dec-16 A
T1350	C2 Base - Concreting	1d	30-Nov-16 A	30-Nov-16 A
T1370	C2 Base - Remove 3th & 5th Strut SL3 & SL5 (2 Nos@SL5 & 8 Nos@SL3)	3d	09-Dec-16 A	16-Dec-16 A
1m Thick Tunnel Wall at Both Sides & OHVD Slab		7d	22-Dec-16 A	04-Jan-17
T1380	C2 Wall & OHVD - Erect Scaffolding & Soffit Formwork	4d	22-Dec-16 A	30-Dec-16
T1390	C2 Wall & OHVD - Steel Fixing & Wall Formwork	5d	30-Dec-16	03-Jan-17
T1400	C2 Wall & OHVD - Concreting	1d	04-Jan-17	04-Jan-17
400mm Thick OHVD Hanger Wall & 1.2m Thick Top Slab		12d	05-Jan-17	16-Jan-17
T1440	C2 OHVD Hanger Wall & Roof - Erect Faslework & Soffit Formworks + Hanger Wall Formwork	3d	05-Jan-17	07-Jan-17
T1450	C2 OHVD Hanger Wall & Roof - Steel Fixing (+1 d for Wall Steel fixing)	6d	08-Jan-17	13-Jan-17
T1460	C2 OHVD Hanger Wall & Roof - Top slab CJ Formwork Erection & Water Stop	2d	14-Jan-17	15-Jan-17
T1470	C2 OHVD Hanger Wall & Roof - Concreting	1d	16-Jan-17	16-Jan-17
Removal of Falseworks & SL4		23d	17-Jan-17	08-Feb-17
T1550	C2 Roof - 10 Days Curing of Roof Prior to Removal of Falsework	10d	17-Jan-17	26-Jan-17
T1560	C2 Roof - Remove Falsework	6d	27-Jan-17	05-Feb-17
T2730	C2 Wall - Remove Strut SL4 (8 No / Layer/ Bay C2)	3d	06-Feb-17	08-Feb-17
Egress Passage		17d	08-Feb-17	25-Feb-17
Wall of EP		9d	08-Feb-17	17-Feb-17
A3780	C2 Erect Scaffolding & working Platform	1d	08-Feb-17	09-Feb-17
A3750	C2 Internal Wall Formwork	2d	09-Feb-17	11-Feb-17
A3760	C2 Steel Fixing to Wall	2d	11-Feb-17	13-Feb-17
A3770	C2 External Wall Formwork	3d	13-Feb-17	16-Feb-17
A3790	C2 Concrete to Wall	1d	16-Feb-17	17-Feb-17

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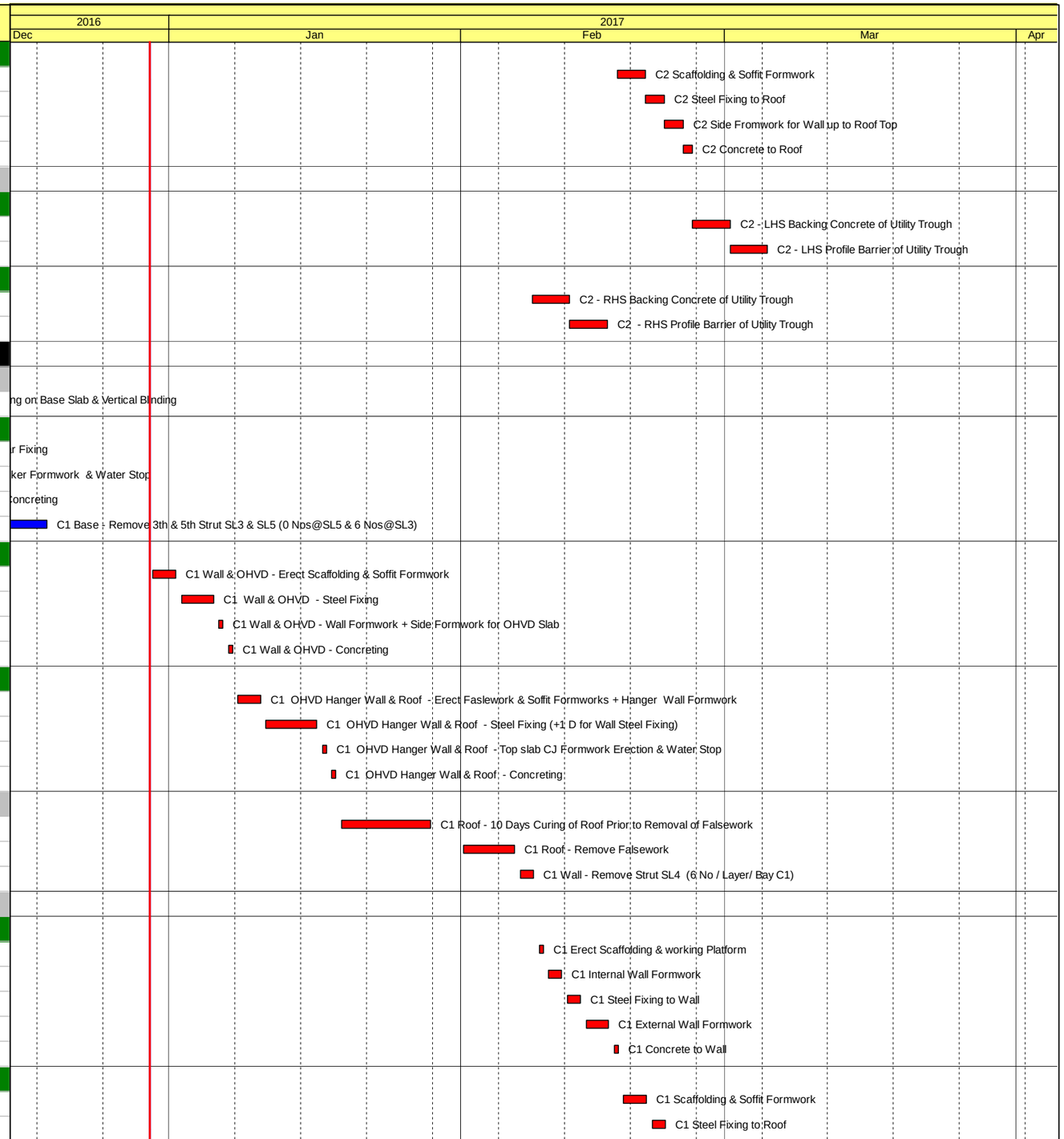
CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LTD.

Actual Work
Remaining Work
Critical Remaining Work
Milestone

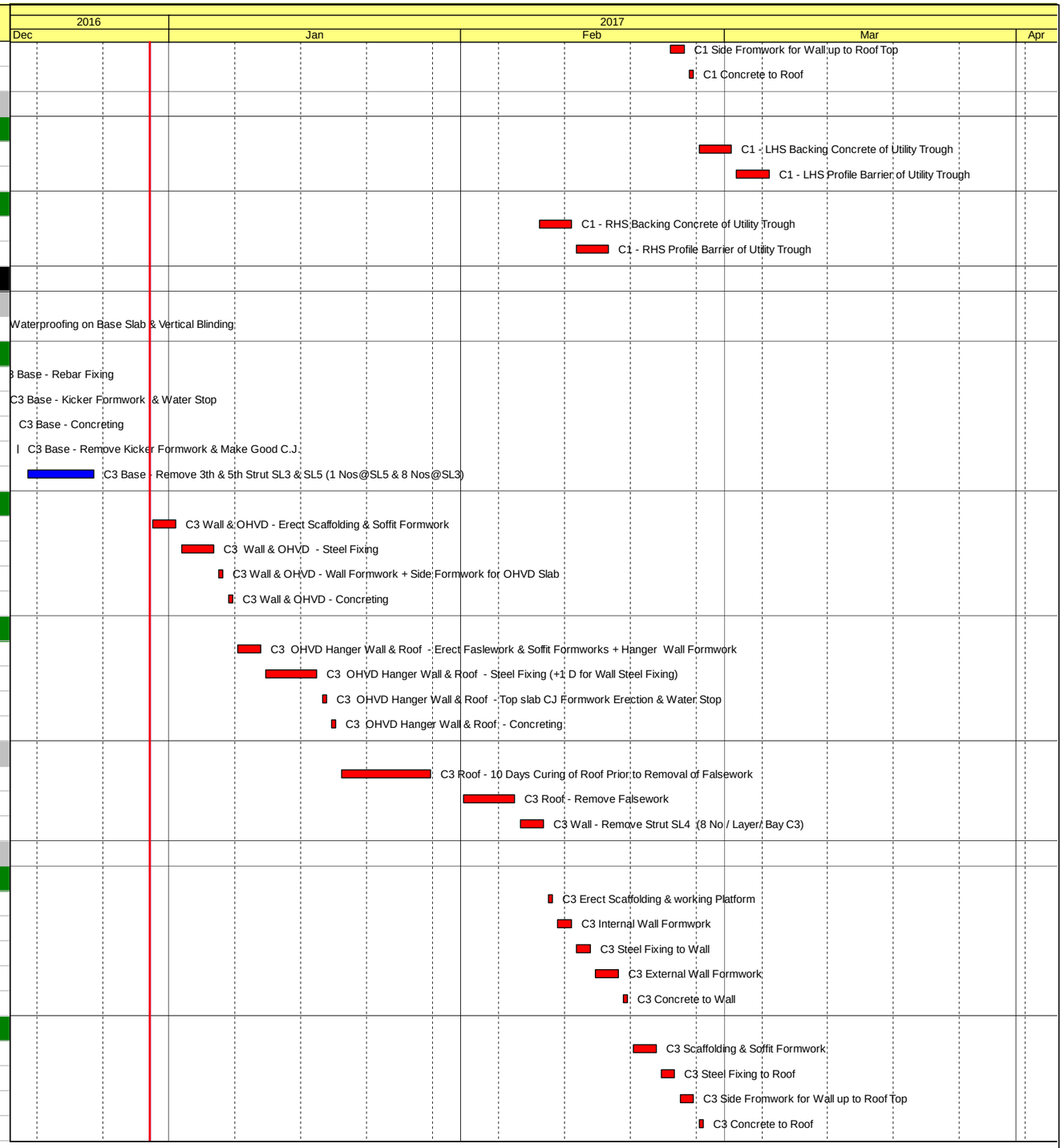
Contract No. HY/2010/08: Central - Wanchai Bypass Tunnel +(Slip Road 8 Section) - 3 Months Rolling Progamme

Date	Revision	Checked	Approved
30-Dec-16	DWP-07 (5) - 3 Months Rolling	FS	TL

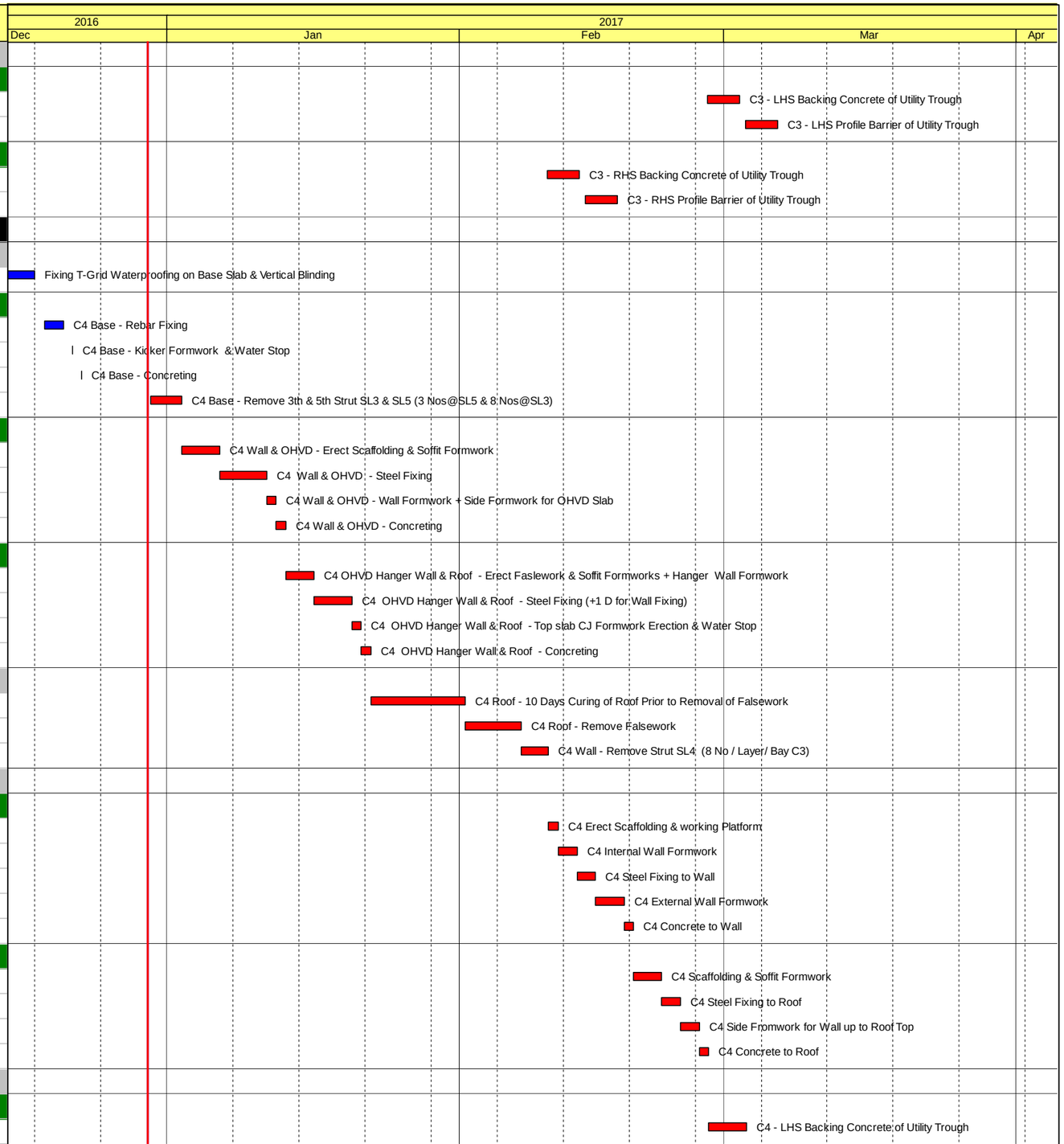
Activity ID	Activity Name	Original Duration	Start	Finish
Roof of EP		8d	17-Feb-17	25-Feb-17
A3800	C2 Scaffolding & Soffit Formwork	3d	17-Feb-17	20-Feb-17
A3810	C2 Steel Fixing to Roof	2d	20-Feb-17	22-Feb-17
A3820	C2 Side Fromwork for Wall up to Roof Top	2d	22-Feb-17	24-Feb-17
A3830	C2 Concrete to Roof	1d	24-Feb-17	25-Feb-17
Utility Trough		25d	08-Feb-17	05-Mar-17
Left Hand Side		8d	25-Feb-17	05-Mar-17
A3850	C2 - LHS Backing Concrete of Utility Trough	4d	25-Feb-17	01-Mar-17
A3840	C2 - LHS Profile Barrier of Utility Trough	4d	01-Mar-17	05-Mar-17
Right Hand Side		8d	08-Feb-17	16-Feb-17
A3860	C2 - RHS Backing Concrete of Utility Trough	4d	08-Feb-17	12-Feb-17
A3870	C2 - RHS Profile Barrier of Utility Trough	4d	12-Feb-17	16-Feb-17
Bay C1		96d	18-Nov-16 A	05-Mar-17
Structure		50d	18-Nov-16 A	18-Jan-17
A4280	Fixing T-Grid Waterproofing on Base Slab & Vertical Blinding	3d	18-Nov-16 A	01-Dec-16 A
1.2m Thick Base Slab		10d	02-Dec-16 A	19-Dec-16 A
T2780	C1 Base - Rebar Fixing	5d	02-Dec-16 A	06-Dec-16 A
T2790	C1 Base - Kicker Formwork & Water Stop	2d	07-Dec-16 A	07-Dec-16 A
T2800	C1 Base - Concreting	1d	08-Dec-16 A	08-Dec-16 A
T2820	C1 Base - Remove 3th & 5th Strut SL3 & SL5 (0 Nos@SL5 & 6 Nos@SL3)	2d	12-Dec-16 A	19-Dec-16 A
1m Thick Tunnel Wall at Both Sides & OHVD Slab		9d	30-Dec-16	07-Jan-17
T2830	C1 Wall & OHVD - Erect Scaffolding & Soffit Formwork	3d	30-Dec-16	01-Jan-17
T2840	C1 Wall & OHVD - Steel Fixing	4d	02-Jan-17	05-Jan-17
T2850	C1 Wall & OHVD - Wall Formwork + Side Formwork for OHVD Slab	1d	06-Jan-17	06-Jan-17
T2860	C1 Wall & OHVD - Concreting	1d	07-Jan-17	07-Jan-17
400mm Thick OHVD Hanger Wall & 1.2m Thick Top Slab		11d	08-Jan-17	18-Jan-17
T2870	C1 OHVD Hanger Wall & Roof - Erect Faslework & Soffit Formworks + Hanger Wall Formwork	3d	08-Jan-17	10-Jan-17
T2880	C1 OHVD Hanger Wall & Roof - Steel Fixing (+1 D for Wall Steel Fixing)	6d	11-Jan-17	16-Jan-17
T2890	C1 OHVD Hanger Wall & Roof - Top slab CJ Formwork Erection & Water Stop	1d	17-Jan-17	17-Jan-17
T2910	C1 OHVD Hanger Wall & Roof - Concreting	1d	18-Jan-17	18-Jan-17
Removal of Falseworks & SL4		21d	19-Jan-17	08-Feb-17
T1310	C1 Roof - 10 Days Curing of Roof Prior to Removal of Falsework	10d	19-Jan-17	28-Jan-17
T1320	C1 Roof - Remove Falsework	6d	01-Feb-17	06-Feb-17
T2740	C1 Wall - Remove Strut SL4 (6 No / Layer/ Bay C1)	2d	07-Feb-17	08-Feb-17
Egress Passage		17d	09-Feb-17	25-Feb-17
Wall of EP		9d	09-Feb-17	17-Feb-17
A3650	C1 Erect Scaffolding & working Platform	1d	09-Feb-17	09-Feb-17
A3620	C1 Internal Wall Formwork	2d	10-Feb-17	11-Feb-17
A3630	C1 Steel Fixing to Wall	2d	12-Feb-17	13-Feb-17
A3640	C1 External Wall Formwork	3d	14-Feb-17	16-Feb-17
A3660	C1 Concrete to Wall	1d	17-Feb-17	17-Feb-17
Roof of EP		8d	18-Feb-17	25-Feb-17
A3670	C1 Scaffolding & Soffit Formwork	3d	18-Feb-17	20-Feb-17
A3680	C1 Steel Fixing to Roof	2d	21-Feb-17	22-Feb-17



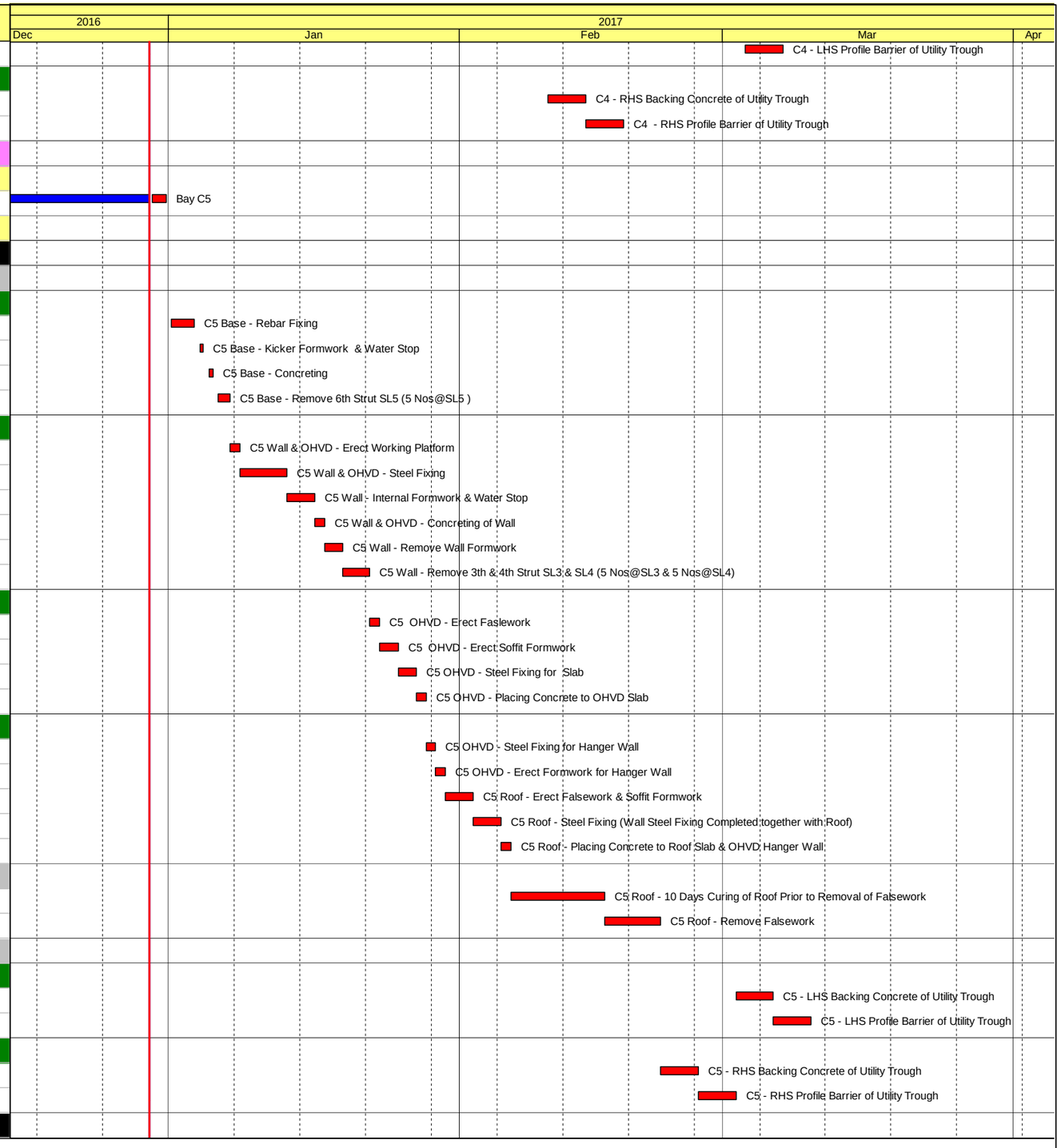
Activity ID	Activity Name	Original Duration	Start	Finish
A3690	C1 Side Fromwork for Wall up to Roof Top	2d	23-Feb-17	24-Feb-17
A3700	C1 Concrete to Roof	1d	25-Feb-17	25-Feb-17
Utility Trough		25d	09-Feb-17	05-Mar-17
Left Hand Side		8d	26-Feb-17	05-Mar-17
A3720	C1 - LHS Backing Concrete of Utility Trough	4d	26-Feb-17	01-Mar-17
A3710	C1 - LHS Profile Barrier of Utility Trough	4d	02-Mar-17	05-Mar-17
Right Hand Side		8d	09-Feb-17	16-Feb-17
A3730	C1 - RHS Backing Concrete of Utility Trough	4d	09-Feb-17	12-Feb-17
A3740	C1 - RHS Profile Barrier of Utility Trough	4d	13-Feb-17	16-Feb-17
Bay C3		67d	02-Dec-16 A	06-Mar-17
Structure		20d	02-Dec-16 A	18-Jan-17
A4290	Fixing T-Grid Waterproofing on Base Slab & Vertical Blinding	3d	02-Dec-16 A	07-Dec-16 A
1.2m Thick Base Slab		12d	08-Dec-16 A	24-Dec-16 A
T2950	C3 Base - Rebar Fixing	5d	08-Dec-16 A	13-Dec-16 A
T2960	C3 Base - Kicker Formwork & Water Stop	2d	14-Dec-16 A	14-Dec-16 A
T2970	C3 Base - Concreting	1d	15-Dec-16 A	15-Dec-16 A
T2980	C3 Base - Remove Kicker Formwork & Make Good C.J.	1d	16-Dec-16 A	16-Dec-16 A
T2990	C3 Base - Remove 3th & 5th Strut SL3 & SL5 (1 Nos@SL5 & 8 Nos@SL3)	3d	17-Dec-16 A	24-Dec-16 A
1m Thick Tunnel Wall at Both Sides & OHVD Slab		9d	30-Dec-16	07-Jan-17
T3000	C3 Wall & OHVD - Erect Scaffolding & Soffit Formwork	3d	30-Dec-16	01-Jan-17
T3010	C3 Wall & OHVD - Steel Fixing	4d	02-Jan-17	05-Jan-17
T3020	C3 Wall & OHVD - Wall Formwork + Side Formwork for OHVD Slab	1d	06-Jan-17	06-Jan-17
T3030	C3 Wall & OHVD - Concreting	1d	07-Jan-17	07-Jan-17
400mm Thick OHVD Hanger Wall & 1.2m Thick Top Slab		11d	08-Jan-17	18-Jan-17
T3040	C3 OHVD Hanger Wall & Roof - Erect Faslework & Soffit Formworks + Hanger Wall Formwork	3d	08-Jan-17	10-Jan-17
T3050	C3 OHVD Hanger Wall & Roof - Steel Fixing (+1 D for Wall Steel Fixing)	6d	11-Jan-17	16-Jan-17
T3060	C3 OHVD Hanger Wall & Roof - Top slab CJ Formwork Erection & Water Stop	1d	17-Jan-17	17-Jan-17
T3080	C3 OHVD Hanger Wall & Roof - Concreting	1d	18-Jan-17	18-Jan-17
Removal of Falseworks & SL4		22d	19-Jan-17	09-Feb-17
T1790	C3 Roof - 10 Days Curing of Roof Prior to Removal of Falsework	10d	19-Jan-17	28-Jan-17
T1800	C3 Roof - Remove Falsework	6d	01-Feb-17	06-Feb-17
T2750	C3 Wall - Remove Strut SL4 (8 No / Layer/ Bay C3)	3d	07-Feb-17	09-Feb-17
Egress Passage		17d	10-Feb-17	26-Feb-17
Wall of EP		9d	10-Feb-17	18-Feb-17
A2310	C3 Erect Scaffolding & working Platform	1d	10-Feb-17	10-Feb-17
A3920	C3 Internal Wall Formwork	2d	11-Feb-17	12-Feb-17
A3930	C3 Steel Fixing to Wall	2d	13-Feb-17	14-Feb-17
A3940	C3 External Wall Formwork	3d	15-Feb-17	17-Feb-17
A3950	C3 Concrete to Wall	1d	18-Feb-17	18-Feb-17
Roof of EP		8d	19-Feb-17	26-Feb-17
A3960	C3 Scaffolding & Soffit Formwork	3d	19-Feb-17	21-Feb-17
A3970	C3 Steel Fixing to Roof	2d	22-Feb-17	23-Feb-17
A3980	C3 Side Fromwork for Wall up to Roof Top	2d	24-Feb-17	25-Feb-17
A3990	C3 Concrete to Roof	1d	26-Feb-17	26-Feb-17



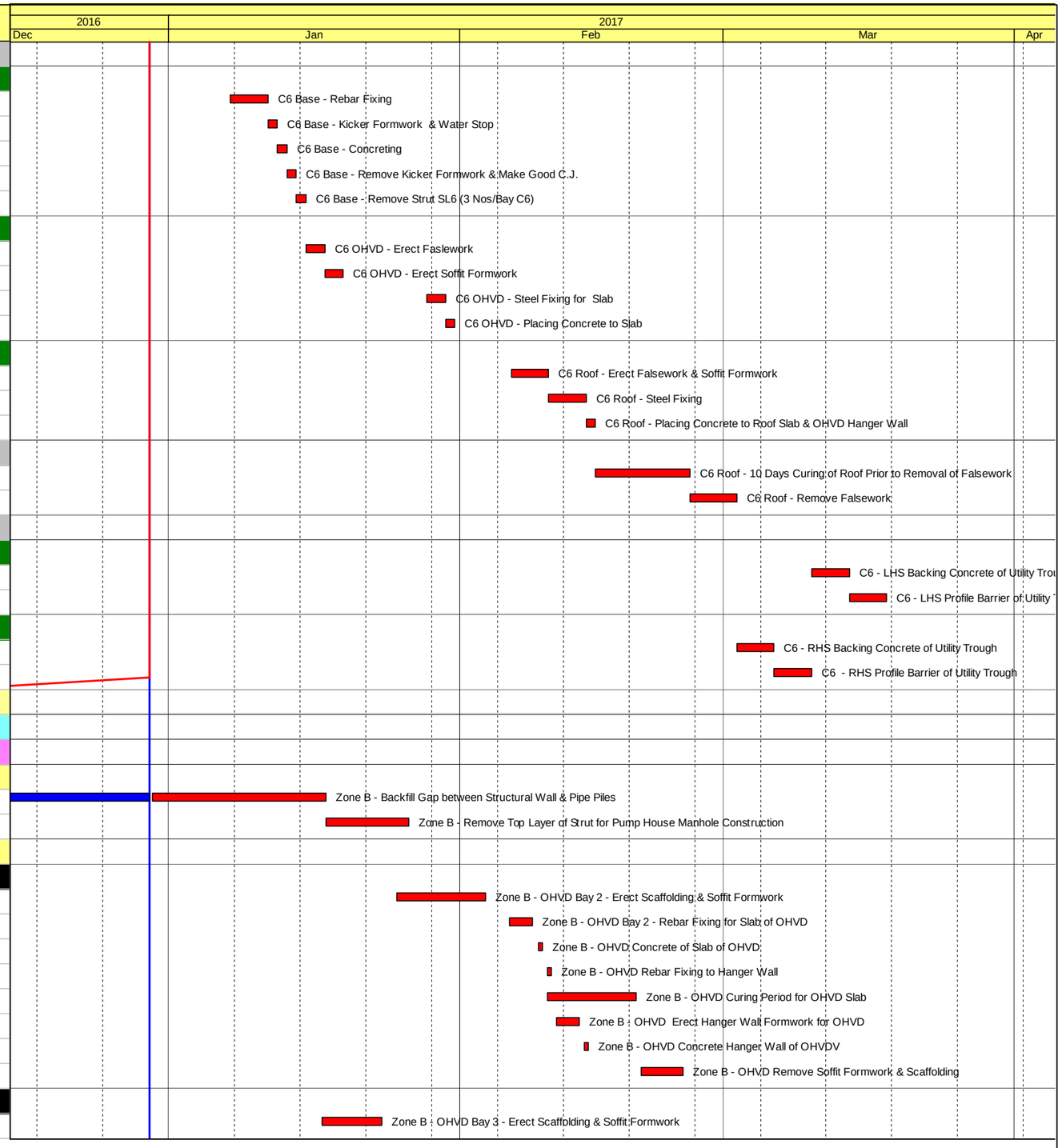
Activity ID	Activity Name	Original Duration	Start	Finish
Utility Trough		25d	10-Feb-17	06-Mar-17
Left Hand Side		8d	27-Feb-17	06-Mar-17
A4000	C3 - LHS Backing Concrete of Utility Trough	4d	27-Feb-17	02-Mar-17
A4010	C3 - LHS Profile Barrier of Utility Trough	4d	03-Mar-17	06-Mar-17
Right Hand Side		8d	10-Feb-17	17-Feb-17
A4020	C3 - RHS Backing Concrete of Utility Trough	4d	10-Feb-17	13-Feb-17
A4030	C3 - RHS Profile Barrier of Utility Trough	4d	14-Feb-17	17-Feb-17
Bay C4		67d	14-Dec-16 A	07-Mar-17
Structure		24d	14-Dec-16 A	22-Jan-17
A4310	Fixing T-Grid Waterproofing on Base Slab & Vertical Blinding	3d	14-Dec-16 A	18-Dec-16 A
1.2m Thick Base Slab		9d	19-Dec-16 A	02-Jan-17
T3120	C4 Base - Rebar Fixing	3d	19-Dec-16 A	21-Dec-16 A
T3130	C4 Base - Kicker Formwork & Water Stop	2d	22-Dec-16 A	22-Dec-16 A
T3140	C4 Base - Concreting	1d	23-Dec-16 A	23-Dec-16 A
T3160	C4 Base - Remove 3th & 5th Strut SL3 & SL5 (3 Nos@SL5 & 8 Nos@SL3)	4d	30-Dec-16	02-Jan-17
1m Thick Tunnel Wall at Both Sides & OHVD Slab		11d	02-Jan-17	13-Jan-17
T3170	C4 Wall & OHVD - Erect Scaffolding & Soffit Formwork	4d	02-Jan-17	06-Jan-17
T3180	C4 Wall & OHVD - Steel Fixing	5d	06-Jan-17	11-Jan-17
T3190	C4 Wall & OHVD - Wall Formwork + Side Formwork for OHVD Slab	1d	11-Jan-17	12-Jan-17
T3200	C4 Wall & OHVD - Concreting	1d	12-Jan-17	13-Jan-17
400mm Thick OHVD Hanger Wall & 1.2m Thick Top Slab		9d	13-Jan-17	22-Jan-17
T3210	C4 OHVD Hanger Wall & Roof - Erect Faslework & Soffit Formworks + Hanger Wall Formwork	3d	13-Jan-17	16-Jan-17
T3220	C4 OHVD Hanger Wall & Roof - Steel Fixing (+1 D for Wall Fixing)	4d	16-Jan-17	20-Jan-17
T3230	C4 OHVD Hanger Wall & Roof - Top slab CJ Formwork Erection & Water Stop	1d	20-Jan-17	21-Jan-17
T3250	C4 OHVD Hanger Wall & Roof - Concreting	1d	21-Jan-17	22-Jan-17
Removal of Falseworks & SL5		19d	22-Jan-17	10-Feb-17
T3300	C4 Roof - 10 Days Curing of Roof Prior to Removal of Falsework	10d	22-Jan-17	01-Feb-17
T3310	C4 Roof - Remove Falsework	6d	01-Feb-17	07-Feb-17
T3290	C4 Wall - Remove Strut SL4 (8 No / Layer/ Bay C3)	3d	07-Feb-17	10-Feb-17
Egress Passage		17d	10-Feb-17	27-Feb-17
Wall of EP		9d	10-Feb-17	19-Feb-17
A4140	C4 Erect Scaffolding & working Platform	1d	10-Feb-17	11-Feb-17
A4110	C4 Internal Wall Formwork	2d	11-Feb-17	13-Feb-17
A4120	C4 Steel Fixing to Wall	2d	13-Feb-17	15-Feb-17
A4130	C4 External Wall Formwork	3d	15-Feb-17	18-Feb-17
A4150	C4 Concrete to Wall	1d	18-Feb-17	19-Feb-17
Roof of EP		8d	19-Feb-17	27-Feb-17
A4160	C4 Scaffolding & Soffit Formwork	3d	19-Feb-17	22-Feb-17
A4170	C4 Steel Fixing to Roof	2d	22-Feb-17	24-Feb-17
A4180	C4 Side Fromwork for Wall up to Roof Top	2d	24-Feb-17	26-Feb-17
A4190	C4 Concrete to Roof	1d	26-Feb-17	27-Feb-17
Utility Trough		25d	10-Feb-17	07-Mar-17
Left Hand Side		8d	27-Feb-17	07-Mar-17
A4200	C4 - LHS Backing Concrete of Utility Trough	4d	27-Feb-17	03-Mar-17



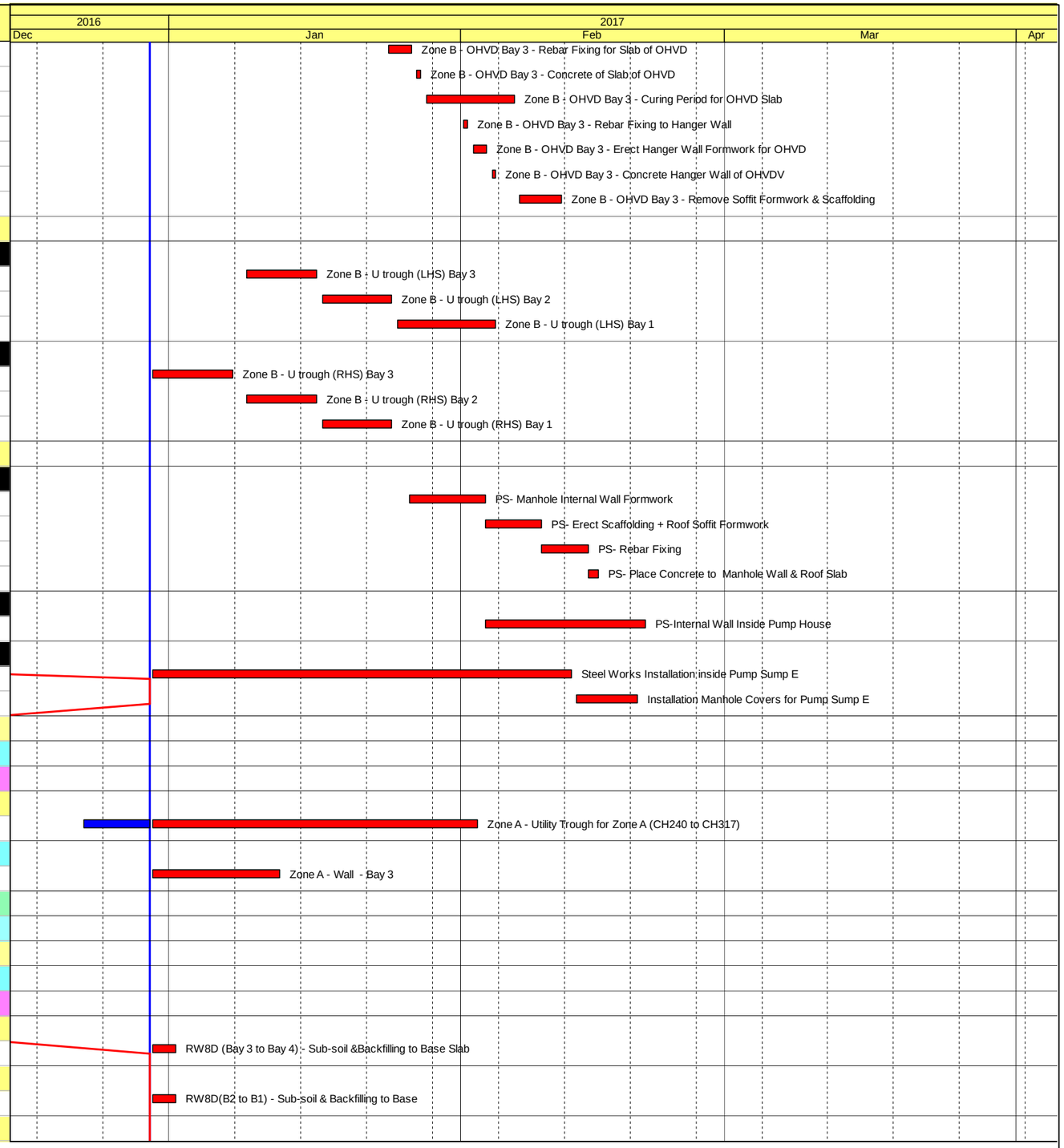
Activity ID	Activity Name	Original Duration	Start	Finish
A4210	C4 - LHS Profile Barrier of Utility Trough	4d	03-Mar-17	07-Mar-17
Right Hand Side		8d	10-Feb-17	18-Feb-17
A4220	C4 - RHS Backing Concrete of Utility Trough	4d	10-Feb-17	14-Feb-17
A4230	C4 - RHS Profile Barrier of Utility Trough	4d	14-Feb-17	18-Feb-17
Area B (CH475 to CH514) - steel Deck EB + SR8/TS3 Interface		76d	15-Dec-16 A	18-Mar-17
Vertical Blinding Bay C5 to Bay C6		13d	15-Dec-16 A	31-Dec-16
A4320	Bay C5	13d	15-Dec-16 A	31-Dec-16
Tunnel Structure at Area B - Bay C5 to C6		76d	01-Jan-17	18-Mar-17
Bay C5		68d	01-Jan-17	10-Mar-17
Structure		36d	01-Jan-17	06-Feb-17
1.2m Thick Base Slab		7d	01-Jan-17	07-Jan-17
T3350	C5 Base - Rebar Fixing	3d	01-Jan-17	03-Jan-17
T3360	C5 Base - Kicker Formwork & Water Stop	1d	04-Jan-17	04-Jan-17
T3370	C5 Base - Concreting	1d	05-Jan-17	05-Jan-17
T3390	C5 Base - Remove 6th Strut SL5 (5 Nos@SL5)	2d	06-Jan-17	07-Jan-17
1m Thick Tunnel Wall at Both Sides		15d	07-Jan-17	22-Jan-17
T3400	C5 Wall & OHVD - Erect Working Platform	1d	07-Jan-17	08-Jan-17
T3410	C5 Wall & OHVD - Steel Fixing	5d	08-Jan-17	13-Jan-17
T3420	C5 Wall - Internal Formwork & Water Stop	3d	13-Jan-17	16-Jan-17
T3430	C5 Wall & OHVD - Concreting of Wall	1d	16-Jan-17	17-Jan-17
T3480	C5 Wall - Remove Wall Formwork	2d	17-Jan-17	19-Jan-17
T3540	C5 Wall - Remove 3th & 4th Strut SL3 & SL4 (5 Nos@SL3 & 5 Nos@SL4)	3d	19-Jan-17	22-Jan-17
OHVD Slab		6d	22-Jan-17	28-Jan-17
T3440	C5 OHVD - Erect Faslework	1d	22-Jan-17	23-Jan-17
T3450	C5 OHVD - Erect Soffit Formwork	2d	23-Jan-17	25-Jan-17
T3460	C5 OHVD - Steel Fixing for Slab	2d	25-Jan-17	27-Jan-17
T3470	C5 OHVD - Placing Concrete to OHVD Slab	1d	27-Jan-17	28-Jan-17
400mm Thick OHVD Hanger Wall & 1.2m Thick Top Slab		9d	28-Jan-17	06-Feb-17
T3490	C5 OHVD - Steel Fixing for Hanger Wall	1d	28-Jan-17	29-Jan-17
T3500	C5 OHVD - Erect Formwork for Hanger Wall	1d	29-Jan-17	30-Jan-17
T3510	C5 Roof - Erect Falsework & Soffit Formwork	3d	30-Jan-17	02-Feb-17
T3520	C5 Roof - Steel Fixing (Wall Steel Fixing Completed together with Roof)	3d	02-Feb-17	05-Feb-17
T3530	C5 Roof - Placing Concrete to Roof Slab & OHVD Hanger Wall	1d	05-Feb-17	06-Feb-17
Removal of Falseworks & SL5		16d	06-Feb-17	22-Feb-17
T3330	C5 Roof - 10 Days Curing of Roof Prior to Removal of Falsework	10d	06-Feb-17	16-Feb-17
T3340	C5 Roof - Remove Falsework	6d	16-Feb-17	22-Feb-17
Utility Trough		16d	22-Feb-17	10-Mar-17
Left Hand Side		8d	02-Mar-17	10-Mar-17
A4080	C5 - LHS Backing Concrete of Utility Trough	4d	02-Mar-17	06-Mar-17
A4070	C5 - LHS Profile Barrier of Utility Trough	4d	06-Mar-17	10-Mar-17
Right Hand Side		8d	22-Feb-17	02-Mar-17
A4090	C5 - RHS Backing Concrete of Utility Trough	4d	22-Feb-17	26-Feb-17
A4100	C5 - RHS Profile Barrier of Utility Trough	4d	26-Feb-17	02-Mar-17
Bay C6		70d	07-Jan-17	18-Mar-17



Activity ID	Activity Name	Original Duration	Start	Finish
Structure		39d	07-Jan-17	15-Feb-17
1.2m Thick Base Slab		8d	07-Jan-17	15-Jan-17
T2490	C6 Base - Rebar Fixing	4d	07-Jan-17	11-Jan-17
T2500	C6 Base - Kicker Formwork & Water Stop	1d	11-Jan-17	12-Jan-17
T2510	C6 Base - Concreting	1d	12-Jan-17	13-Jan-17
T2520	C6 Base - Remove Kicker Formwork & Make Good C.J.	1d	13-Jan-17	14-Jan-17
T2530	C6 Base - Remove Strut SL6 (3 Nos/Bay C6)	1d	14-Jan-17	15-Jan-17
200 mm Thick OHVD Slab		16d	15-Jan-17	31-Jan-17
T2660	C6 OHVD - Erect Faslework	2d	15-Jan-17	17-Jan-17
T2670	C6 OHVD - Erect Soffit Formwork	2d	17-Jan-17	19-Jan-17
T2680	C6 OHVD - Steel Fixing for Slab	2d	28-Jan-17	30-Jan-17
T2690	C6 OHVD - Placing Concrete to Slab	1d	30-Jan-17	31-Jan-17
1.2m Thick Top Slab		9d	06-Feb-17	15-Feb-17
T3570	C6 Roof - Erect Falsework & Soffit Formwork	4d	06-Feb-17	10-Feb-17
T3580	C6 Roof - Steel Fixing	4d	10-Feb-17	14-Feb-17
T3590	C6 Roof - Placing Concrete to Roof Slab & OHVD Hanger Wall	1d	14-Feb-17	15-Feb-17
Removal of Falseworks & SL4		15d	15-Feb-17	02-Mar-17
T2640	C6 Roof - 10 Days Curing of Roof Prior to Removal of Falsework	10d	15-Feb-17	25-Feb-17
T2650	C6 Roof - Remove Falsework	5d	25-Feb-17	02-Mar-17
Utility Trough		16d	02-Mar-17	18-Mar-17
Left Hand Side		8d	10-Mar-17	18-Mar-17
A4240	C6 - LHS Backing Concrete of Utility Trough	4d	10-Mar-17	14-Mar-17
A4250	C6 - LHS Profile Barrier of Utility Trough	4d	14-Mar-17	18-Mar-17
Right Hand Side		8d	02-Mar-17	10-Mar-17
A4260	C6 - RHS Backing Concrete of Utility Trough	4d	02-Mar-17	06-Mar-17
A4270	C6 - RHS Profile Barrier of Utility Trough	4d	06-Mar-17	10-Mar-17
SR8 (Zone B) - Ch.385.000 to Ch.317.500 - (Inside Victoria Park to Tunnel Portal)		312d	19-Apr-16 A	24-Feb-17
SR8 (Zone B) Tunnel - ELS / CCT / BF Works (7 Bays Ch. 385.000 to Ch.317.500)		312d	19-Apr-16 A	24-Feb-17
Portal Structure		312d	19-Apr-16 A	24-Feb-17
Backfill & Remove Struts		283d	19-Apr-16 A	26-Jan-17
SR8_ZB_1350	Zone B - Backfill Gap between Structural Wall & Pipe Piles	4d	19-Apr-16 A	17-Jan-17
SR8_ZB_1380	Zone B - Remove Top Layer of Strut for Pump House Manhole Construction	8d	17-Jan-17	26-Jan-17
OHVD		39d	17-Jan-17	24-Feb-17
Bay B2 (CH338.625 to CH351.8)		31d	25-Jan-17	24-Feb-17
SR8_ZB_1390	Zone B - OHVD Bay 2 - Erect Scaffolding & Soffit Formwork	6d	25-Jan-17	03-Feb-17
SR8_ZB_1400	Zone B - OHVD Bay 2 - Rebar Fixing for Slab of OHVD	3d	06-Feb-17	08-Feb-17
SR8_ZB_1410	Zone B - OHVD Concrete of Slab of OHVD	1d	09-Feb-17	09-Feb-17
SR8_ZB_1420	Zone B - OHVD Rebar Fixing to Hanger Wall	1d	10-Feb-17	10-Feb-17
SR8_ZB_1450	Zone B - OHVD Curing Period for OHVD Slab	10d	10-Feb-17	19-Feb-17
SR8_ZB_1430	Zone B - OHVD Erect Hanger Wall Formwork for OHVD	2d	11-Feb-17	13-Feb-17
SR8_ZB_1440	Zone B - OHVD Concrete Hanger Wall of OHVDV	1d	14-Feb-17	14-Feb-17
SR8_ZB_1460	Zone B - OHVD Remove Soffit Formwork & Scaffolding	5d	20-Feb-17	24-Feb-17
Bay B3 (CH351.8 to CH368)		26d	17-Jan-17	11-Feb-17
SR8_ZB_1470	Zone B - OHVD Bay 3 - Erect Scaffolding & Soffit Formwork	6d	17-Jan-17	23-Jan-17



Activity ID	Activity Name	Original Duration	Start	Finish
SR8_ZB_1480	Zone B - OHVD Bay 3 - Rebar Fixing for Slab of OHVD	3d	24-Jan-17	26-Jan-17
SR8_ZB_1490	Zone B - OHVD Bay 3 - Concrete of Slab of OHVD	1d	27-Jan-17	27-Jan-17
SR8_ZB_1530	Zone B - OHVD Bay 3 - Curing Period for OHVD Slab	10d	28-Jan-17	06-Feb-17
SR8_ZB_1500	Zone B - OHVD Bay 3 - Rebar Fixing to Hanger Wall	1d	01-Feb-17	01-Feb-17
SR8_ZB_1510	Zone B - OHVD Bay 3 - Erect Hanger Wall Formwork for OHVD	2d	02-Feb-17	03-Feb-17
SR8_ZB_1520	Zone B - OHVD Bay 3 - Concrete Hanger Wall of OHVDV	1d	04-Feb-17	04-Feb-17
SR8_ZB_1540	Zone B - OHVD Bay 3 - Remove Soffit Formwork & Scaffolding	5d	07-Feb-17	11-Feb-17
Utility Trough		28d	30-Dec-16	04-Feb-17
Left Hand Side		21d	09-Jan-17	04-Feb-17
SR8_ZB_1570	Zone B - U trough (LHS) Bay 3	7d	09-Jan-17	16-Jan-17
SR8_ZB_1560	Zone B - U trough (LHS) Bay 2	7d	17-Jan-17	24-Jan-17
SR8_ZB_1550	Zone B - U trough (LHS) Bay 1	7d	25-Jan-17	04-Feb-17
Right Hand Side		21d	30-Dec-16	24-Jan-17
SR8_ZB_1600	Zone B - U trough (RHS) Bay 3	7d	30-Dec-16*	07-Jan-17
SR8_ZB_1590	Zone B - U trough (RHS) Bay 2	7d	09-Jan-17	16-Jan-17
SR8_ZB_1580	Zone B - U trough (RHS) Bay 1	7d	17-Jan-17	24-Jan-17
Pump House		53d	30-Dec-16	20-Feb-17
Pressure Relief Manhole		14d	26-Jan-17	15-Feb-17
SR8_ZB_1800	PS- Manhole Internal Wall Formwork	4d	26-Jan-17	03-Feb-17
SR8_ZB_1810	PS- Erect Scaffolding + Roof Soffit Formwork	5d	03-Feb-17	09-Feb-17
SR8_ZB_1820	PS- Rebar Fixing	4d	09-Feb-17	14-Feb-17
SR8_ZB_1830	PS- Place Concrete to Manhole Wall & Roof Slab	1d	14-Feb-17	15-Feb-17
Floor Slabs & Partition Walls		14d	03-Feb-17	20-Feb-17
SR8_ZB_1860	PS-Internal Wall Inside Pump House	14d	03-Feb-17	20-Feb-17
Remining Works inside Pump Sump E		52d	30-Dec-16	19-Feb-17
SR8_ZB_1890	Steel Works Installation inside Pump Sump E	45d	30-Dec-16	12-Feb-17
SR8_ZB_1900	Installation Manhole Covers for Pump Sump E	7d	13-Feb-17	19-Feb-17
SR8 (Zone A) - Ch 317.500 to Ch 210.000 - U-Structure & Slab (Victoria Park)		37d	23-Dec-16 A	02-Feb-17
RC CCT & Backfill Ch317.5000 to Ch240.000		28d	23-Dec-16 A	02-Feb-17
Structure		28d	23-Dec-16 A	02-Feb-17
Utility Through		28d	23-Dec-16 A	02-Feb-17
SR8_ZA_1260	Zone A - Utility Trough for Zone A (CH240 to CH317)	28d	23-Dec-16 A	02-Feb-17
SR8 Structural Slab Ch.240.000 to Ch.210.000		14d	30-Dec-16	12-Jan-17
SR8_2090B	Zone A - Wall - Bay 3	14d	30-Dec-16*	12-Jan-17
Works in KD9 (Include Re-provisioning Works of KD4,KD5)		231d	10-Oct-16 A	05-Jul-17
External Works Under KD9		231d	14-Nov-16 A	05-Jul-17
Tsing Fung St - RW & Subway Extension & Toe Wall at Hing Fat St		115d	03-Dec-16 A	30-Mar-17
Retaining Wall + Toe Wall at Hing Fat Street		115d	03-Dec-16 A	30-Mar-17
Retaining Wall RW8D		115d	03-Dec-16 A	14-Mar-17
Bay 3(10m) to Bay 4(10m)		3d	30-Dec-16	01-Jan-17
RW8D_1220	RW8D (Bay 3 to Bay 4) - Sub-soil &Backfilling to Base Slab	3d	30-Dec-16	01-Jan-17
Bay 2(10m) to Bay 1(12.5m)		3d	30-Dec-16	01-Jan-17
RW8D_1230	RW8D(B2 to B1) - Sub-soil & Backfilling to Base	3d	30-Dec-16	01-Jan-17
Re-open Hing Fat Street Footpath to Plubic (Request by VPMO)		111d	03-Dec-16 A	14-Mar-17



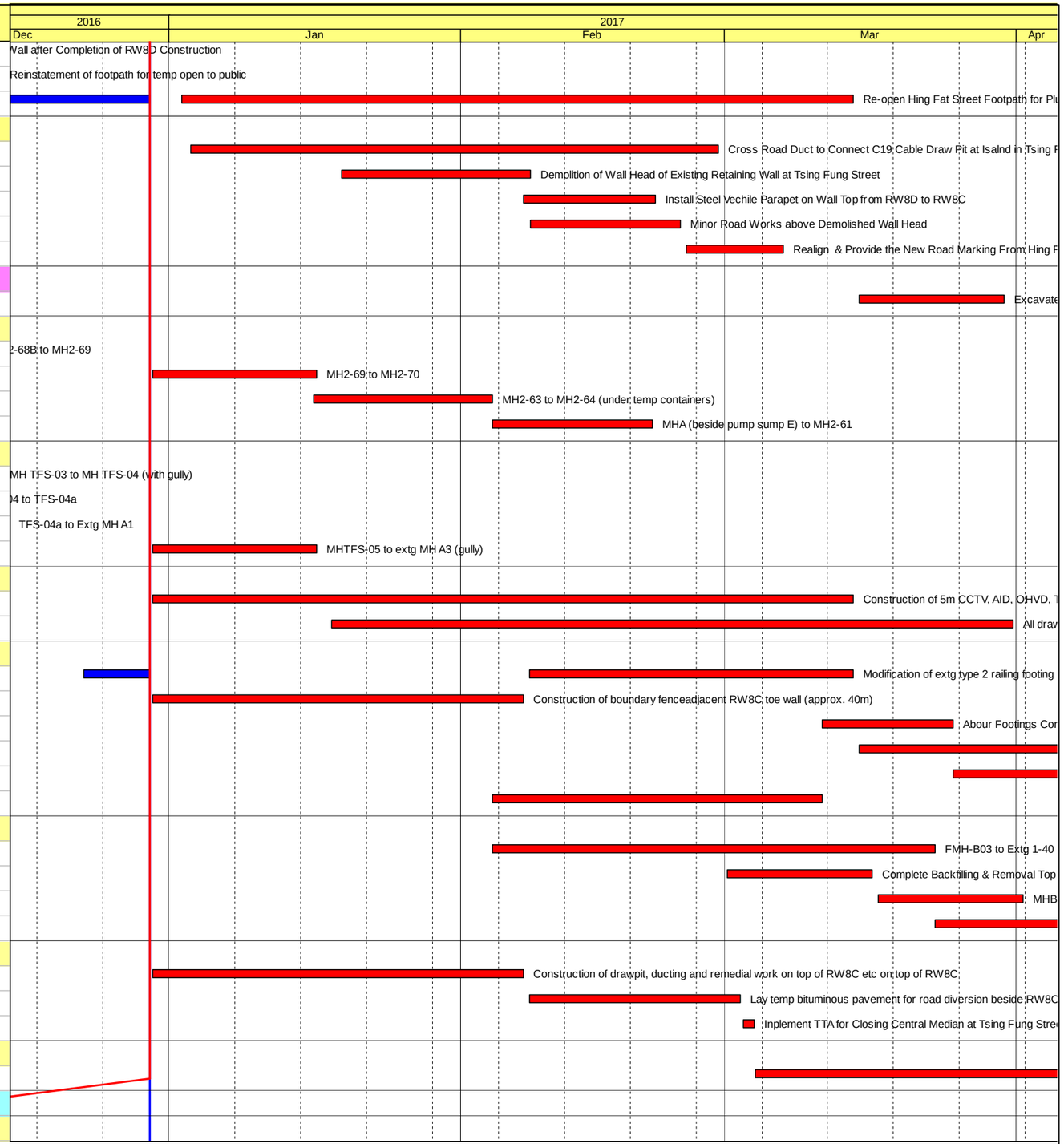
中國建築工程(香港)有限公司
CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LTD.

Actual Work
Remaining Work
Critical Remaining Work
Milestone

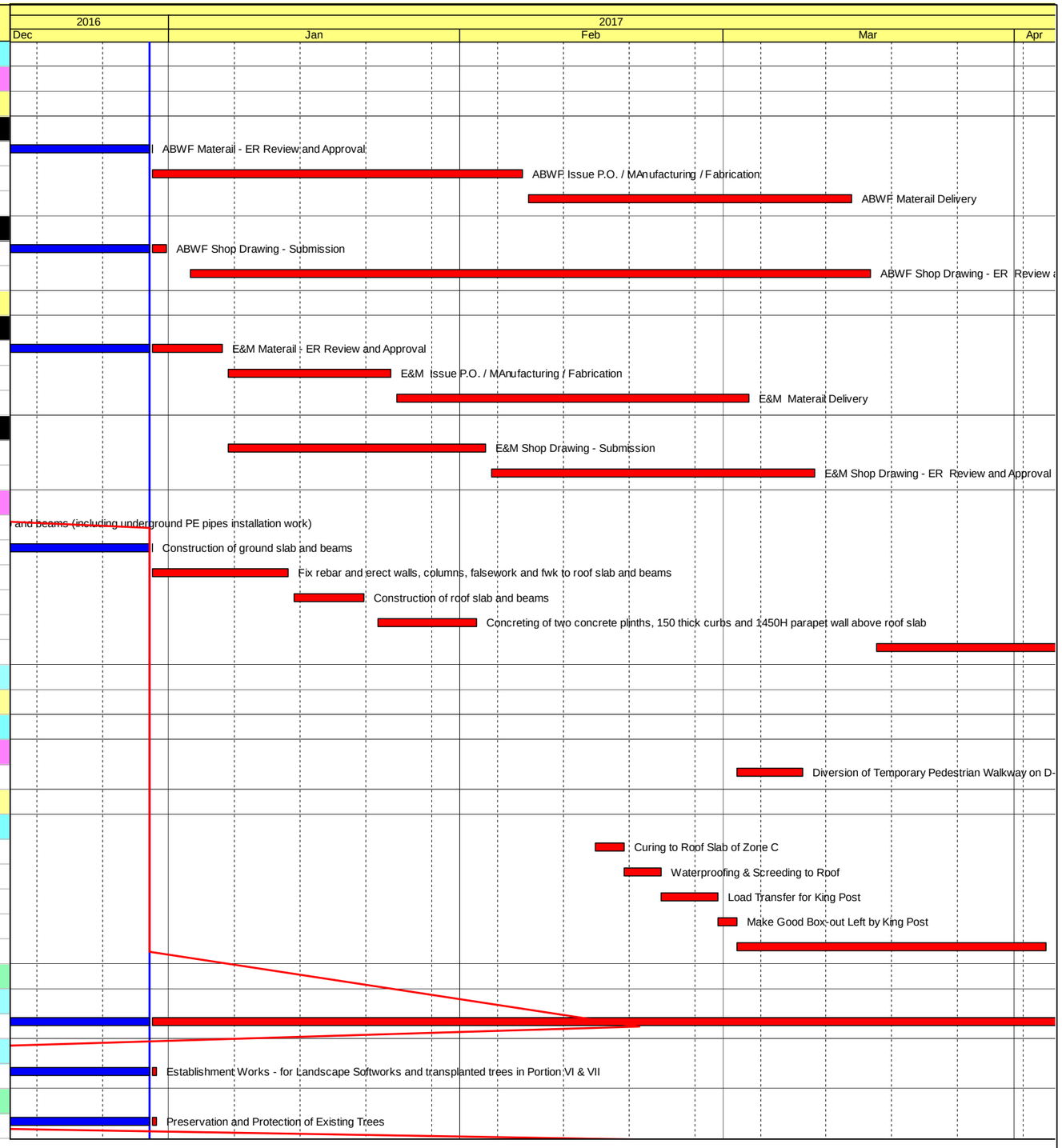
Contract No. HY/2010/08: Central - Wanchai Bypass Tunnel +(Slip Road 8 Section) - 3 Months Rolling Progamme

Date	Revision	Checked	Approved
30-Dec-16	DWP-07 (5) - 3 Months Rolling	FS	TL

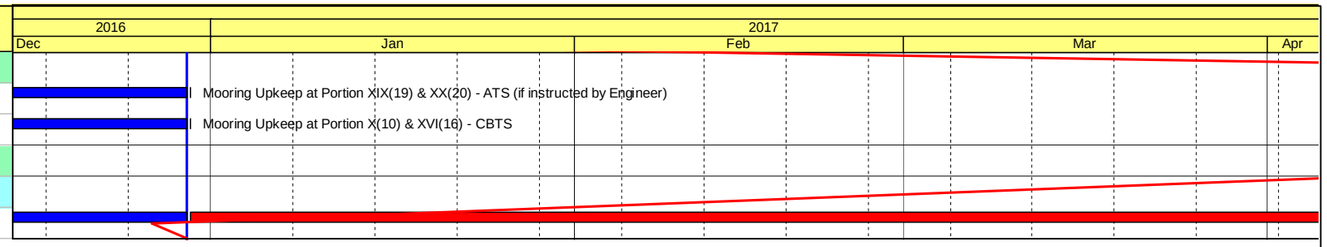
Activity ID	Activity Name	Original Duration	Start	Finish
A4590	Backfilling of Wall after Completion of RW8D Construction	9d	03-Dec-16 A	07-Dec-16 A
A4600	Reinstatement of footpath for temp open to public	9d	07-Dec-16 A	14-Dec-16 A
A4610	Re-open Hing Fat Street Footpath for Plubic (From 5m CCTV footing to subway)	90d	15-Dec-16 A	14-Mar-17
Works along RW8D During Reopen Hing Fat Street Footpath to Public		63d	03-Jan-17	07-Mar-17
A4910	Cross Road Duct to Connect C19 Cable Draw Pit at Isalnd in Tsing Fung Street	45d	03-Jan-17*	28-Feb-17
A4920	Demolition of Wall Head of Existing Retaining Wall at Tsing Fung Street	14d	19-Jan-17	08-Feb-17
A4930	Install Steel Vechile Parapet on Wall Top from RW8D to RW8C	14d	07-Feb-17	21-Feb-17
A4940	Minor Road Works above Demolished Wall Head	14d	08-Feb-17	24-Feb-17
A4950	Realign & Provide the New Road Marking From Hing Fat Street to Tsing Fung Street	7d	25-Feb-17	07-Mar-17
Retaining Walls RW8E, Sign Footings & Sewer Pipe (SK266G, SK539C, SK375B)		14d	15-Mar-17	30-Mar-17
A4620	Excavate and lay blinding layer of RW8E	14d	15-Mar-17	30-Mar-17
Foul Drain Pipe (VP Area, SK266G, SK265C & SK226L)		76d	14-Nov-16 A	21-Feb-17
A4480	MH2-68B to MH2-69	14d	14-Nov-16 A	12-Dec-16 A
A4490	MH2-69 to MH2-70	14d	30-Dec-16	16-Jan-17
A4440	MH2-63 to MH2-64 (under temp containers)	14d	16-Jan-17*	04-Feb-17
A4460	MHA (beside pump sump E) to MH2-61	14d	04-Feb-17	21-Feb-17
Storm Drain Pipe behind RW8C along Tsing Fung Street (SK547A)		60d	21-Nov-16 A	16-Jan-17
A4510	MH TFS-03 to MH TFS-04 (with gully)	14d	21-Nov-16 A	14-Dec-16 A
A4520	MH TFS-04 to TFS-04a	11d	05-Dec-16 A	09-Dec-16 A
A4530	TFS-04a to Extg MH A1	11d	10-Dec-16 A	15-Dec-16 A
A4540	MHTFS-05 to extg MH A3 (gully)	14d	30-Dec-16	16-Jan-17
Sign Footings at Victoria Park		75d	30-Dec-16	31-Mar-17
A4570	Construction of 5m CCTV, AID, OHVD, TSG, luminance meter at verge inside VP	60d	30-Dec-16	14-Mar-17
A4580	All drawpits (ATC, E&M and lighting) and ductings at verge inside VP (SK375B)	60d	18-Jan-17	31-Mar-17
Boundary Fence, Type 2 Railing Footings & Fence Wall From RW8C to Zone B		188d	23-Dec-16 A	05-Jul-17
A4710	Modification of extg type 2 railing footing in front of RW8C (approx. 40m)	30d	23-Dec-16 A	14-Mar-17
A4700	Construction of boundary fenceadjacent RW8C toe wall (approx. 40m)	30d	30-Dec-16*	07-Feb-17
A4990	Abour Footings Construction	14d	11-Mar-17	25-Mar-17
A4720	Construction of boundary fence (approx. 460m)	90d	15-Mar-17	05-Jul-17
A5000	Shelter & Benches Installation	21d	25-Mar-17	15-Apr-17
A4730	Fence wall between BGO and Zone A (60m)	30d	24-Nov-17 A	11-Mar-17
Other Storm, Sewerage Pipe & Irrigation System in VP (SK336D, SK539C)		70d	04-Feb-17	04-May-17
A4740	FMH-B03 to Extg 1-40 (8 MHs and 7 foul pipeline)	40d	04-Feb-17	23-Mar-17
A4780	Complete Backfilling & Removal Top Two Layer of Strut at Bay 3 of Zone B	14d	01-Mar-17*	16-Mar-17
A4760	MHB (beside pump sump E) to MH2-70 (300 dia. stormwater pipeline)	14d	17-Mar-17	01-Apr-17
A4750	SHM-B01 to Extg. MH A3 (4 MHS and 4 storm pipeline)	30d	23-Mar-17	04-May-17
Preparation Works before Implementation TTA at Central Median		64d	30-Dec-16	04-Mar-17
A4790	Construction of drawpit, ducting and remedial work on top of RW8C etc on top of RW8C	30d	30-Dec-16	07-Feb-17
A4800	Lay temp bituminous pavement for road diversion beside RW8C (Incl. Steel Vehicle Parapet on RW8C)	20d	08-Feb-17	02-Mar-17
A4810	Inplement TTA for Closing Central Median at Tsing Fung Street	1d	03-Mar-17	04-Mar-17
Centre Median at Tsing Fung Street (SK375B, SK226L)		60d	04-Mar-17	19-May-17
A4820	Construct VMS6, LCS footing, ATC drawpit and ducts , steel vehicle parapet	60d	04-Mar-17	19-May-17
Works in Victoria Park (KD4, KD5, KD9)		153d	10-Oct-16 A	02-Jun-17
Re-Provisioning Works		153d	10-Oct-16 A	02-Jun-17



Activity ID	Activity Name	Original Duration	Start	Finish
Nursery Compound		153d	10-Oct-16 A	02-Jun-17
Submission		93d	10-Oct-16 A	16-Mar-17
ABWF Submission		93d	10-Oct-16 A	16-Mar-17
Material		77d	18-Oct-16 A	14-Mar-17
VP_NC_1050	ABWF Materail - ER Review and Approval	28d	18-Oct-16 A	30-Dec-16
VP_NC_1060	ABWF Issue P.O. / MAnufacturing / Fabrication	30d	30-Dec-16	07-Feb-17
VP_NC_1070	ABWF Materail Delivery	30d	08-Feb-17	14-Mar-17
Shop Drawing		93d	10-Oct-16 A	16-Mar-17
VP_NC_1080	ABWF Shop Drawing - Submission	21d	10-Oct-16 A	31-Dec-16
VP_NC_1090	ABWF Shop Drawing - ER Review and Approval	60d	03-Jan-17	16-Mar-17
E&M Submission		74d	21-Oct-16 A	10-Mar-17
Material		68d	21-Oct-16 A	03-Mar-17
VP_NC_1130	E&M Materail - ER Review and Approval	28d	21-Oct-16 A	06-Jan-17
VP_NC_1140	E&M Issue P.O. / MAnufacturing / Fabrication	15d	07-Jan-17	24-Jan-17
VP_NC_1150	E&M Materail Delivery	30d	25-Jan-17	03-Mar-17
Shop Drawing		51d	07-Jan-17	10-Mar-17
VP_NC_1160	E&M Shop Drawing - Submission	21d	07-Jan-17	03-Feb-17
VP_NC_1170	E&M Shop Drawing - ER Review and Approval	30d	04-Feb-17	10-Mar-17
Nursery compound		146d	24-Nov-16 A	02-Jun-17
A4370	Backfill to ground slab and beams (including underground PE pipes installation work)	8d	24-Nov-16 A	03-Dec-16 A
A4380	Construction of ground slab and beams	7d	09-Dec-16 A	30-Dec-16
A4390	Fix rebar and erect walls, columns, falsework and fwk to roof slab and beams	12d	30-Dec-16	13-Jan-17
A4400	Construction of roof slab and beams	7d	14-Jan-17	21-Jan-17
A4410	Concreting of two concrete plinths, 150 thick curbs and 1450H parapet wall above roof slab	7d	23-Jan-17	02-Feb-17
A4420	ABWF, Plumbering Works, waterproofing and E&M works	60d	17-Mar-17	02-Jun-17
Sea Wall Reinstatement & Reverting Traffic for IEC,VP Rd & TF St (KD9)		48d	15-Feb-17	04-Apr-17
Reinstatement Existing Slopping & Vertical Sea Wall		7d	02-Mar-17	09-Mar-17
Major Reinstatement Works for Seawall Reinstatement		7d	02-Mar-17	09-Mar-17
Stage 1		7d	02-Mar-17	09-Mar-17
A5040	Diversion of Temporary Pedestrian Walkway on D-wall	7d	02-Mar-17	09-Mar-17
TTA Revert Traffic Back to Original Alignment		48d	15-Feb-17	04-Apr-17
Preparation Works - Backfill of Zone C to Top of Tunnel Structure		48d	15-Feb-17	04-Apr-17
A5780	Curing to Roof Slab of Zone C	3d	15-Feb-17	18-Feb-17
A5790	Waterproofing & Screeding to Roof	4d	18-Feb-17	22-Feb-17
A5800	Load Transfer for King Post	6d	22-Feb-17	28-Feb-17
A5810	Make Good Box-out Left by King Post	2d	28-Feb-17	02-Mar-17
A5820	Backfill to Formation & Remove Struts SL1 to SL3 (Approx. 7m)	33d	02-Mar-17	04-Apr-17
KD11, KD12, KD13, KD18 Establishment Works for Landscape Softworks		1087d	23-Feb-15 A	14-Dec-17
KD11 - Section 7A: Portion XIV & XV (Victoria Park Open Space)		891d	23-Feb-15 A	14-Dec-17
EW_1000	Establishment Works - for Landscape Softworks and transplanted trees in Portion XIV & XV	901d	23-Feb-15 A	14-Dec-17
KD12 - Section 7B: Portion VI & VII (Reprov. Bowling Green Area)		177d	03-Dec-15 A	30-Dec-16
EW_1010	Establishment Works - for Landscape Softworks and transplanted trees in Portion VI & VII	177d	03-Dec-15 A	30-Dec-16
KD10 - Preservation and Protection of Trees		1088d	21-Mar-13 A	30-Dec-16
PPT_0000	Preservation and Protection of Existing Trees	1088d	21-Mar-13 A	30-Dec-16



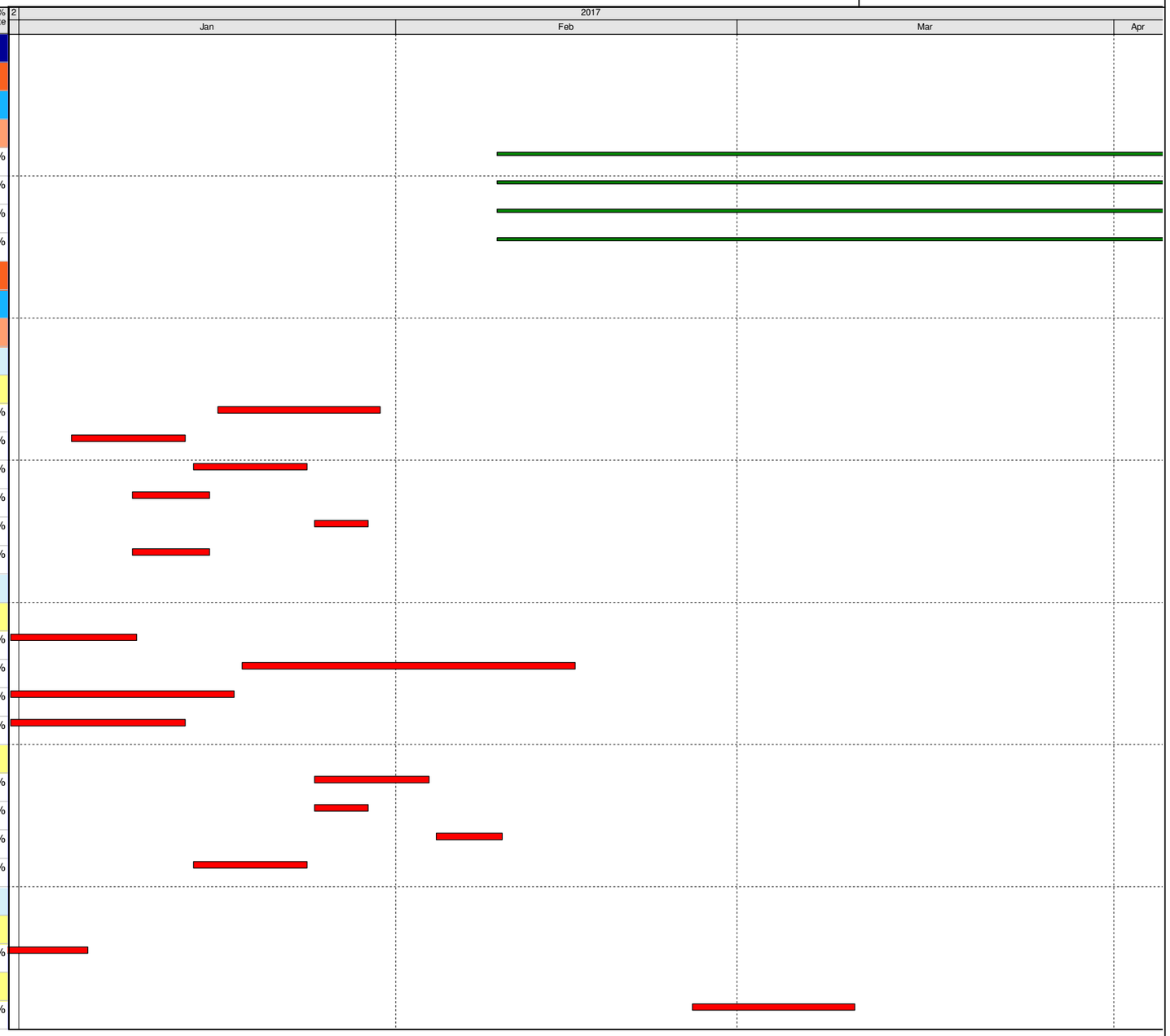
Activity ID	Activity Name	Original Duration	Start	Finish
KD15 & KD8 - Mooring Components Upkeep (CBTS and ATS)		1423d	21-Mar-13 A	30-Dec-16
MAR_2000	Mooring Upkeep at Portion XIX(19) & XX(20) - ATS (if instructed by Engineer)	1399d	21-Mar-13 A	30-Dec-16
MAR_3020	Mooring Upkeep at Portion X(10) & XVI(16) - CBTS	979d	15-May-14 A	30-Dec-16
Works for Public Works Regional Laboratory (North Lantau) - KD1,KD16,KD17)		1301d	19-Jul-13 A	21-Nov-17
KD17 - Maintenance and Upkeep of New PWRL (Portion XVII)		1301d	19-Jul-13 A	21-Nov-17
PWRL_1050	Maintenance/ Upkeep of New PWRL	1301d	19-Jul-13 A	21-Nov-17



中國建築-利基聯營
CHINA STATE - BUILD KING JOINT VENTURE

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

Activity ID	Activity Name	Remaining Dur	Early Start	Early Finish	Total Float	Activity % Complete
HK/2012/08 Revised Works Programme Rev.9(DD 31 December 2016)						
Dredging and Reclamation						
Marine Work Construction						
Others - Landing Steps						
MAR21420	Zone A2 - [summary] landing steps at seawall 13	73	09-Feb-17	11-May-17	-23	0%
MAR21360	Zone A2 - [summary] landing steps at seawall 4	77	09-Feb-17	16-May-17	-27	0%
MAR21380	Zone B - [summary] landing steps at seawall 5	73	09-Feb-17	11-May-17	-23	0%
MAR21400	Zone D - [summary] landing steps at seawall 9	70	09-Feb-17	08-May-17	-20	0%
Works for Section Completion						
Construction						
Section II - MVB Structure						
MVB Substructure - ELS & Structural Works for Portion A						
MVB Substructure - Other Works for Portion A						
SII11400	Sec II - MVB A: Backfilling to ground level (2.0mPD to 4.0mPD)	14	17-Jan-17	30-Jan-17	-163	0%
SII11320	Sec II - MVB A: Remove flasework & formwork	10	05-Jan-17	14-Jan-17	-143	0%
SII11340	Sec II - MVB A: Repair defect	10	15-Jan-17	24-Jan-17	-143	0%
SII11360	Sec II - MVB A: Screeding of Roof Slab	7	10-Jan-17	16-Jan-17	-163	0%
SII11344	Sec II - MVB A: Waterproofing of D-wall	5	25-Jan-17	29-Jan-17	-143	0%
SII11350	Sec II - MVB A: Waterproofing of Roof Slab	7	10-Jan-17	16-Jan-17	-163	0%
MVB Substructure - ELS & Structural Works for Portion B						
MVB Substructure - Structural Works for Portion B						
SII12450	Sec II - MVB B - Construct remaining walland slab below B1/F	11	31-Dec-16*	10-Jan-17	-255	0%
SII12560	Sec II - MVB B: Constrcut wall above capping beam and slab at G/F	28	19-Jan-17	15-Feb-17	-160	0%
SII12520	Sec II - MVB B: Construct Capping Beam at South	19	31-Dec-16	18-Jan-17	-160	0%
SII12500	Sec II - MVB B: Construct wall of B1/F and capping beam at East	15	31-Dec-16	14-Jan-17	-259	0%
MVB Substructure - Other Works for Portion B						
SII12360	Sec II - MVB B: Repair Defect	10	25-Jan-17	03-Feb-17	-154	0%
SII12120	Sec II - MVB B: seal up the openings	5	25-Jan-17	29-Jan-17	-143	0%
SII12420	Sec II - MVB B: Waterproofing of D-wall	6	04-Feb-17	09-Feb-17	-154	0%
SII12100	Sec III - MVB B: Remove falsework & formwork	10	15-Jan-17	24-Jan-17	-154	0%
MVB Substructure - ELS & Structural Works for Portion C						
MVB Substructure - ELS for Portion C						
SII12380	Sec III - MVB C : Remove bulhead wall between MVB plant room and MVB South	7	21-Dec-16 A	06-Jan-17	-185	56.25%
MVB Substructure - Structural Works for Portion C						
SII12600	Sec II - MVB Plant Room : Construct fence wall above G/F slab	14	25-Feb-17	10-Mar-17	-192	0%



Data Date:
31-Dec-16

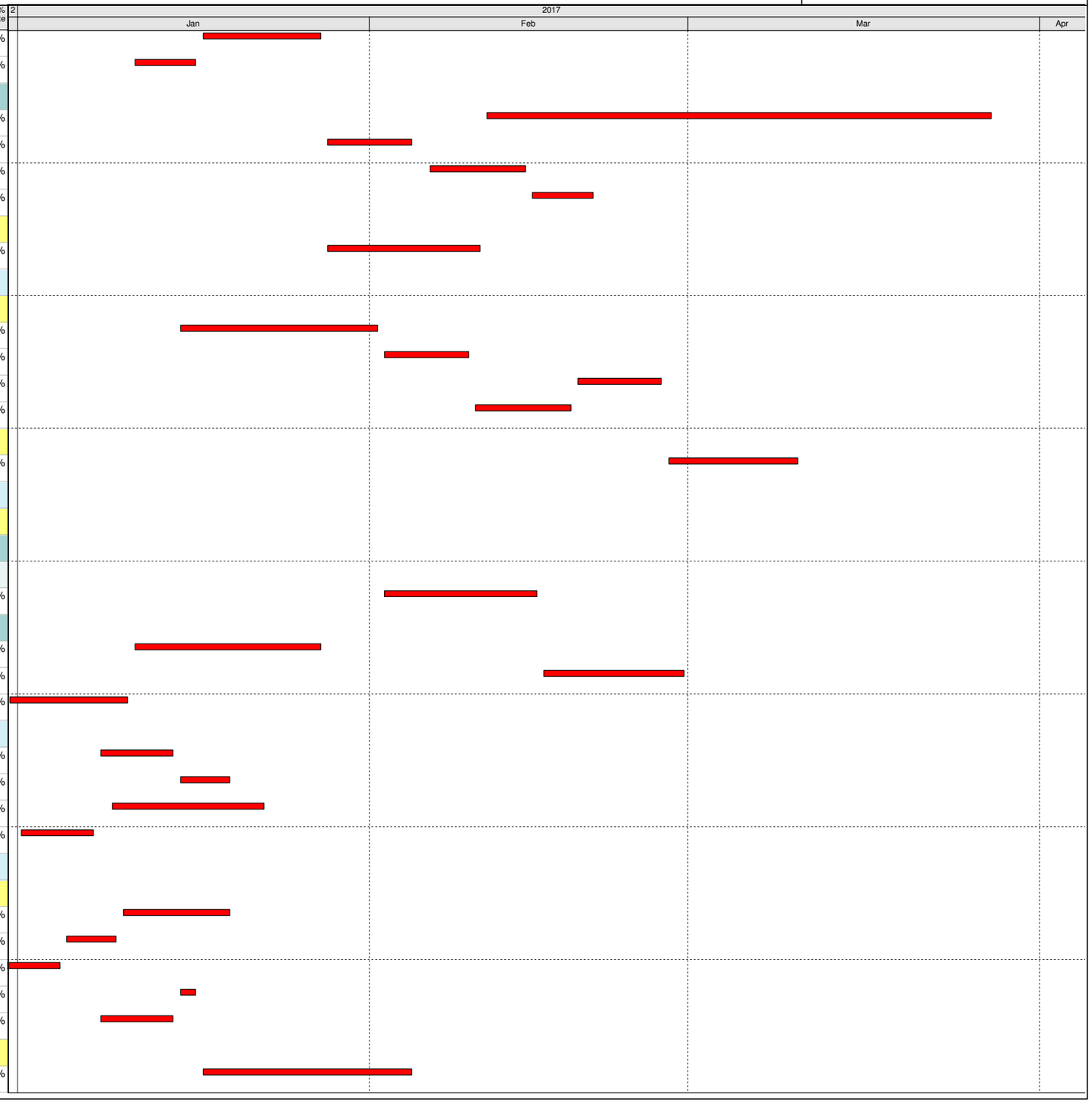
Current Milestone
Actual Work
Critical Remaining Work
Remaining Work
Remaining Level of Effort

3 Months Rolling Programme for Non-CRIII
(Jan 2017 - March 2017)
Ref. to DWP Rev. 9

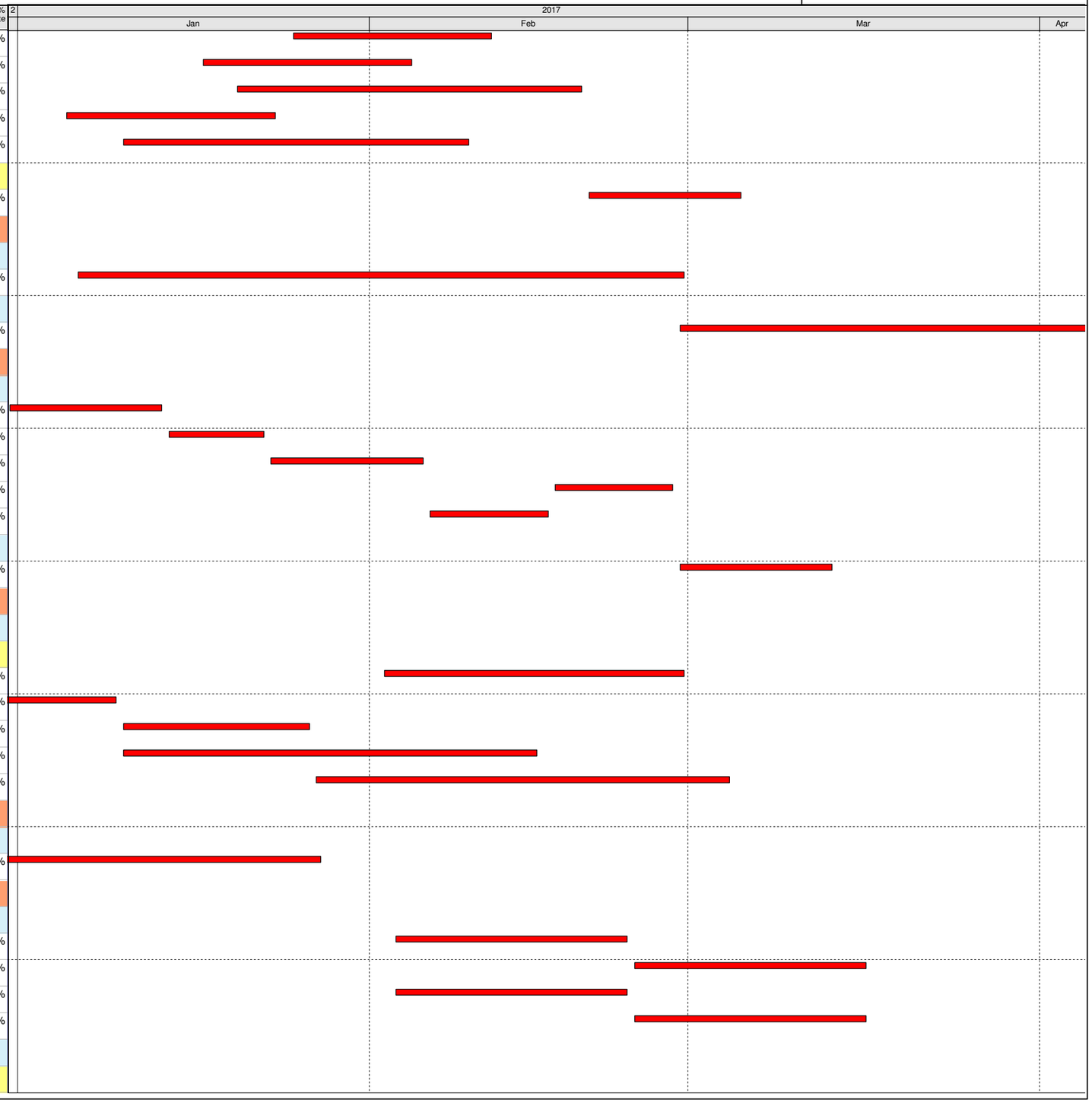
Date	Revision	Checked	Approved
20-Nov-16	8		

Activity ID	Activity Name	Remaining Dur	Early Start	Early Finish	Total Float	Activity % Complete
SII12260	Sec II - MVB Plant Room : Construct Floor Slab of G/F	11	14-Jan-17	24-Jan-17	-192	0%
SII12580	Sec II - MVB Plant Room : Construct slab of Raised Floor	15	10-Feb-17	24-Feb-17	-192	0%
SII12240	Sec II - MVB Plant Room : Construct Wall of B1/F	14	22-Dec-16 A	13-Jan-17	-192	15%
SII12540	Sec II - MVB Plant Room : Construct wall of Raised Floor	16	25-Jan-17	09-Feb-17	-192	0%
Section II A - CWB Tunnel & Slip Road Structures and Facilities						
CWB A2(2)						
CWB A2 (2) - ELS & Tunnel Structure						
CWB A2 - Other Works						
SIIA12660	Sec II A - CWB A2(2) : Backfilling from +2.0mPD to formation level	25	07-Feb-17	03-Mar-17	-229	0%
SIIA12610	Sec II A - CWB A2(2) : Backfilling up to +2.0 mPD	14	25-Nov-16 A	13-Jan-17	-229	0%
SIIA12630	Sec II A - CWB A2(2) : Demolition of temporary Dwall	24	14-Jan-17	06-Feb-17	-229	0%
CWB B & A2(1)						
CWB B - ELS & Tunnel Structure						
CWB A2(1) & B - Tunnel Structure						
SIIA13900	Sec II A - CWB B: Construct Bay 7b - OHVD	15	13-Jan-17	27-Jan-17	-257	0%
SIIA13920	Sec II A - CWB B: Construct Bay 7b - Top Slab	14	02-Feb-17	15-Feb-17	-257	0%
SIIA13880	Sec II A - CWB B: Construct Bay 7b - Wall	19	19-Dec-16 A	18-Jan-17	-257	38.71%
CWB A2(1) & B - Associated Facilities						
SIIA14460	Sec II A - CWB A2(1) & B : Civil Provisions - waterproofing & lay screeding	14	19-Feb-17	04-Mar-17	-231	0%
SIIA14480	Sec II A - CWB A2(1) & B : Remove flasework & formwork	7	16-Feb-17	22-Feb-17	-257	0%
SIIA14500	Sec II A - CWB A2(1) & B : Repair defect	7	23-Feb-17	02-Mar-17	-209	0%
CWB C (W)						
CWB C(W) - ELS & Tunnel Structure						
CWB C(W) - Tunnel Structure						
SIIA12650	Sec II A - CWB CW: Construct Bay 1 & 2 - Internal Wall	8	09-Jan-17	16-Jan-17	-258	0%
SIIA12700	Sec II A - CWB CW: Construct Bay 1 & 2 - OHVD	11	17-Jan-17	27-Jan-17	-258	0%
SIIA12720	Sec II A - CWB CW: Construct Bay 1 & 2 - Roof Slab	23	03-Feb-17	25-Feb-17	-258	0%
SIIA12640	Sec II A - CWB CW: Construct Bay 1 & 2 - Southern Wall	8	09-Jan-17	16-Jan-17	-257	0%
SIIA12460	Sec II A - CWB CW: Construct Bay 2b - B1/F slab	14	23-Jan-17	05-Feb-17	-111	0%
SIIA12520	Sec II A - CWB CW: Construct Bay 2b - G/F roof slab	7	13-Feb-17	19-Feb-17	-118	0%
SIIA12430	Sec II A - CWB CW: Construct Bay 2b - Saw cut D-wall at B1/F	14	09-Jan-17	22-Jan-17	-118	0%
SIIA12480	Sec II A - CWB CW: Construct Bay 2b - Saw cut D-wall at G/F	21	23-Jan-17	12-Feb-17	-118	0%
SIIA12180	Sec II A - CWB CW: Construct Raking Struts	4	23-Dec-16 A	03-Jan-17	-258	50%
SIIA12200	Sec II A - CWB CW: Remove walling/struct/comcrete packing	5	04-Jan-17	08-Jan-17	-258	0%
CWB C(W) - Associated Facilities						
SIIA14220	Sec II A - CWB CW: Remove flasework & formwork	7	26-Feb-17	04-Mar-17	-258	0%
SIIA14240	Ssec II A - CWB CW: Repair defect	7	26-Feb-17	04-Mar-17	-258	0%
CWB C (E)						
CWB C(E) - ELS & Tunnel Structure						
CWB C(E) - Tunnel Structure						

Activity ID	Activity Name	Remaining Dur	Early Start	Early Finish	Total Float	Activity % Complete
SIIA13455	Sec II A - CWB CE: Construct Bay 3 - Roof Slab	11	17-Jan-17	27-Jan-17	-240	0%
SIIA13444	Sec II A - CWB CE: Remove concrete wall between C1 and zone CE (Bay 3)	6	11-Jan-17*	16-Jan-17	-240	0%
CWB C(E) - Other Works						
SIIA13325	Sec II A - CWB CE: backfill to +4.0mPD	45	11-Feb-17	27-Mar-17	-154	0%
SIIA13300	Sec II A - CWB CE: Remove flasework and formwork	8	28-Jan-17	04-Feb-17	-240	0%
SIIA13310	Sec IIA - CWB CE: Repair defect	8	06-Feb-17	14-Feb-17	-195	0%
SIIA13316	Ssec IIA - CWB CE: Waterproofing of D-wall	5	15-Feb-17	20-Feb-17	-195	0%
CWB C(E) - Associated Facilities						
SIIA14272	Sec II A - CWB CE: Civil Provisions - lay screeding and waterproofing	14	28-Jan-17	10-Feb-17	-154	0%
CWB C - Exhaust Duct						
CWB C - Exhaust Duct Structural Work						
SIIA12936	Sec II A - Exhaust Duct at Slip Rd 3: Demolish bulkhead between MVB south and exhaust duct	18	15-Jan-17	01-Feb-17	-259	0%
SIIA12938	Sec II A - Exhaust Duct at Slip Rd3: Construt Bay 1 - base slab	8	02-Feb-17	09-Feb-17	-259	0%
SIIA13480	Sec II A - Exhaust Duct at Slip Rd3: Construt Bay 1 - roof slab	8	19-Feb-17	26-Feb-17	-259	0%
SIIA12940	Sec II A - Exhaust Duct at Slip Rd3: Construt Bay 1 - wall	9	10-Feb-17	18-Feb-17	-259	0%
CWB C - Exhaust Duct Others						
SIIA12950	Sec II A - Exhaust Duct at Slip Rd3: dismantle formwork / falsework	12	27-Feb-17	10-Mar-17	-259	0%
CWB D - Slip Road 1						
CWB D - Slip Road 1 - ELS & Tunnel Structure						
CWB D - Slip Road 1 - ELS						
CWB D - SR1 - ELS - Bay 1 & 2						
SIIA 12584	Sec II A - CWB SR1 Concrete Plug: Remove concrete bulkhead	14	02-Feb-17	15-Feb-17	-249	0%
CWB D - Slip Road 1 - Tunnel Structure						
SIIA13060	Sec II A - CWB SR1: Construct Bay 1a - Base Slab (adjacent to C4 unit)	17	11-Jan-17	27-Jan-17	-249	0%
SIIA13080	Sec II A - CWB SR1: Construct Bay 1a - Roof Slab (adjacen to C4 unit)	13	16-Feb-17	28-Feb-17	-249	0%
SIIA13055	Sec II A - CWB SR1: Trimmimg and post drill to Bay 1a base slab	11	31-Dec-16	10-Jan-17	-249	0%
CWB D - Associated Facilities						
SIIA13940	Sec II A - CWB SR1 : Repair Defect	7	08-Jan-17	14-Jan-17	-209	0%
SIIA13980	Sec II A - CWB SR1 : Waterproofing of D-wall	5	15-Jan-17	19-Jan-17	-209	0%
SIIA12580	Sec II A - CWB SR1: Civil Provisions - Waterproofing & lay screeding	14	09-Jan-17	22-Jan-17	-212	0%
SIIA13560	Sec II A - CWB SR1: Remove falsework and formwork	7	01-Jan-17	07-Jan-17	-209	0%
CWB D - Slip Road 1 - Trough / Retaining Wall						
CWB D - Slip Road 1 - Trough/Retaining Wall Temp Work & ELS						
SIIA13320	Sec II A - CWB SR1 Trough & RW: Remedial works for Blinding layer (Trough Bay 1)	10	10-Jan-17	19-Jan-17	-271	0%
SIIA13780	Sec II A - CWB SR1 Trough & RW: Remedial works for Blinding layer (Trough Bay 2)	5	05-Jan-17	09-Jan-17	-271	0%
SIIA14000	Sec II A - CWB SR1 Trough & RW: Remedial works for Blinding layer (Trough Bay 3)	5	14-Dec-16 A	04-Jan-17	-271	75%
SIIA14080	Sec II A - CWB SR1 Trough & RW: Retaining Wall - Cast Blinding Layer	2	15-Jan-17	16-Jan-17	-263	0%
SIIA14060	Sec II A - CWB SR1 Trough & RW: Retaining Wall - Excavation	7	08-Jan-17*	14-Jan-17	-263	0%
CWB D - Slip Road 1 - Trough/Retaining Wall Structure						
SIIA13800	Sec II A - CWB SR1 Trough & RW: Retaining Walls RW3 (bay 1)	19	17-Jan-17	04-Feb-17	-263	0%



Activity ID	Activity Name	Remaining Dur	Early Start	Early Finish	Total Float	Activity % Complete
SIIA13820	Sec II A - CWB SR1 Trough & RW: Retaining Walls RW3 (bay 2&3)	18	25-Jan-17	11-Feb-17	-263	0%
SIIA13860	Sec II A - CWB SR1 Trough & RW: Retaining Walls RW4 (bay 1)	19	17-Jan-17	04-Feb-17	-256	0%
SIIA12800	Sec II A - CWB SR1 Trough & RW: Trough Structure - Base Slab & Wall (bay 1)	31	20-Jan-17	19-Feb-17	-271	0%
SIIA13740	Sec II A - CWB SR1 Trough & RW: Trough Structure - Base Slab & Wall (bay 3)	19	05-Jan-17	23-Jan-17	-244	0%
SIIA13720	Sec II A - CWB SR1 Trough & RW: Trough Structure -Base Slab & Wall (bay 2)	31	10-Jan-17	09-Feb-17	-261	0%
CWB D - Slip Road 1 - Trough/ Retaining Wall Other Works						
SIIA13845	Sec II A - CWB SR1: Waterproofing & lay screeding	14	20-Feb-17	05-Mar-17	-271	0%
Section III A - Road A2, A4, A5, Area 11; Implement 2nd Stage ITA						
Roadwork & Utilities at CRIII/A1						
SIIIA10260	Sec III A - roadwork and utilities (Zone A1) - Backfill to pavement founding level	42	06-Jan-17	28-Feb-17	-188	0%
Roadwork & Utilities at B						
SIIIA10840	Sec III A - roadwork and utilities (Zone B) - Backfill to pavement founding level	40	28-Feb-17	19-Apr-17	-188	0%
Box Culvert L1 & FRP-L - Bay 8						
Box Culvert L1 & FRP-L - Bay 8 Structure						
CUL11323	Culvert L - Bay 8 - construct base slab (Portion 1)	14	31-Dec-16	13-Jan-17	-259	0%
CUL11324	Culvert L - Bay 8 - construct base slab (Portion 2)	9	14-Jan-17	22-Jan-17	-259	0%
CUL11326	Culvert L - Bay 8 - construct wall	14	23-Jan-17	05-Feb-17	-259	0%
CUL11328	Culvert L - bay 8 - construt top slab	11	17-Feb-17	27-Feb-17	-259	0%
CUL11327	Culvert L - Bay 8 - Dismantle formwork & Remove sheet pipe	11	06-Feb-17	16-Feb-17	-259	0%
Box Culvert L1 & FRP-L - Bay 8 Others						
CUL11340	Culvert L - bay 8 - backfill above box section	12	28-Feb-17	13-Mar-17	-211	0%
Section VI D - Area 8B & 10						
WDII Box 1 Construction						
WDII Box 1 Remaining Structure						
WD-C6090	Sec VID - Remaining of Box I: Blasting tank at wall 12, 15 & 16	23	02-Feb-17	28-Feb-17	-237	0%
WD-C6040	Sec VID - Remaining of Box I: Construct lower part BHW, Wall 12, 15 and 16	10	12-Dec-16 A	09-Jan-17	-290	62.96%
WD-C6060	Sec VID - Remaining of Box I: Construct Upper part BHW, Wall 12, 15 and 16	17	10-Jan-17	26-Jan-17	-290	0%
WD-C6080	Sec VID - Remaining of Box I: Construct Wall 13(23m run)	37	10-Jan-17	15-Feb-17	-278	0%
WD-C6075	Sec VID -Remaining of Box I: Extension of sacarfical wall (2.3m)	37	27-Jan-17	04-Mar-17	-281	0%
Section IV - Slip Road 3						
Roadwork & Utilities (Lung King Street)						
SIV11060	Sec IV - Stage 3: Roadwork & Utilities	23	11-Nov-16 A	27-Jan-17	-79	0%
Section VII - Remainder Works						
Retaining Wall RW5 Construction						
SVII10660	Sec VII - Retaining Wall RW5 (bay 1) - construct base slab and wall	18	03-Feb-17*	23-Feb-17	-24	0%
SVII10680	Sec VII - Retaining wall RW5 (bay 2) - construct base slab and wall	18	24-Feb-17	16-Mar-17	-24	0%
SVII10800	Sec VII - Retaining wall RW5 (bay 3) - construct base slab and wall	18	03-Feb-17	23-Feb-17	-24	0%
SVII10820	Sec VII - Retaining wall RW5 (bay 4) - construct base slab and wall	18	24-Feb-17	16-Mar-17	-24	0%
Landing Steps Construction						
Landing Steps BSW13						



中國建築-利基聯營
CHINA STATE - BUILD KING JOINT VENTURE

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

Activity ID	Activity Name	Remaining Dur	Early Start	Early Finish	Total Float	Activity % Complete
SVII10700	Sec VII - Landing steps (BSW13) - construct mass concrete coping	26	09-Feb-17*	10-Mar-17	-27	0%
Landing Steps BSW4						
SVII10940	Sec VII - Landing steps (BSW4) - construct mass concrete coping	26	09-Feb-17	10-Mar-17	-27	0%
Landing Steps BSW5						
SVII11020	Sec VII - Landing steps (BSW5) - construct mass concrete coping	26	09-Feb-17	10-Mar-17	-23	0%
Landing Steps BSW9						
SVII11100	Sec VII - Landing steps (BSW9) - construct mass concrete coping	24	09-Feb-17*	08-Mar-17	-20	0%
Promenade Seawall Parapet Construction						
SVII10400	Sec VII - construct block seawall mass concrete coping & backfill to pavement formation	60	06-Feb-17*	20-Apr-17	-12	0%
Section VIII - Landscape Softworks						
Soft Landscaping Works						
SVIII10040	Sec VIII - Trees Planting	64	31-Dec-16	21-Mar-17	-57	0%
Section X - Protection & Preservation of Trees						
Soft Landscaping Works						
SX10020	Sec X - Protection & Preservation of Trees	265	31-Jan-13 A	21-Sep-17	-52	83.76%
VO : Construction of Box 4A & 4B						
Box 4A						
4A10000	Concrete Fill with 300 dia. carrier drain (Approx. 50m)	10	05-Jan-17*	14-Jan-17	-217	0%
4A10020	Internal Suspended Slab & Internal Wall	13	15-Jan-17	27-Jan-17	-217	0%
Box 4B						
4B10000	Concrete Fill with 300 dia. carrier drain (Approx. 50m)	10	05-Jan-17	14-Jan-17	-205	0%
4B10010	Internal Suspended Slab & Internal Wall	13	15-Jan-17	27-Jan-17	-217	0%