

Lam Geotechnics Limited

Contract No. HK/2015/01 Wanchai Development Phase II and Central Wanchai Bypass Sampling, Field Measurement and testing Works (Stage 3) Quarterly EM&A Report (March 2018 – May 2018)

CONTRACT NO: HK/2015/01

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

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

> QUARTERLY ENVIRONMENTAL MONITORING AND AUDIT REPORT

> > - MARCH TO MAY 2018 -

CLIENTS:

Civil Engineering and Development Department

and

Highways Department

PREPARED BY:

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CHECKED BY:

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Raymond Dai Environmental Team Leader

DATE:

26 June 2018



Ref.: AACWBIECEM00_0_10503L.18

26 June 2018

By Post and Fax (2691 2649)

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

Attention: Mr. Peter Poon

Dear Sirs,

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

Quarterly EM&A Report (March 2018 to May 2018) for EP-356/2009, FEP-02/356/2009. FEP-03/356/2009, FEP-04/356/2009, FEP-06/356/2009, FEP-07/356/2009 and FEP-08/356/2009

Reference is made to the Environmental Team's submission of the captioned Quarterly Environmental Monitoring and Audit (EM&A) Report for March to May 2018 received by e-mail on 26 June 2018.

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

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

Yours sincerely,

David Yeung Independent Environmental Checker

Encl. Q:\Projects\AACWBIECEM00\Corr\AACWBIECEM00_0_10503L.18.docx

C.C.		
HyD	Attn: Mr. Eddy Wu	by fax: 2714 5289
CEDD	Attn: Mr. L K Tsang	by fax: 2577 5040
AECOM	Attn: Mr. Francis Leong/Stephen Lai	by fax: 2691 2649
AECOM	Attn: Mr. Conrad Ng	by fax: 2691 2649
Lam	Attn: Mr. Raymond Dai	by fax: 2882 3331



Lam Geotechnics Limited

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EXECUTIVE SUMMARY

i. This is the Quarterly Environmental Monitoring and Audit (EM&A) Report – March 2018 to May 2018 prepared for the Project of Wan Chai Development Phase II and Central-Wanchai Bypass under Environmental Permit no. EP-356/2009 and Further Environmental permit nos. FEP-02/356/2009, FEP-03/356/2009, FEP-04/356/2009, FEP-06/356/2009 and FEP-07/356/2009. This report presents the environmental monitoring and audit findings and information during the period from 27th March 2018 to 26th May 2018. The cut-off date of reporting is at 26th of each reporting period.

Construction Activities for the Reported Period

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

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

March 2018		April 2018	May 2018	
	• Nil	Removal of TWCR4	Removal of TWCR4	

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

Table IVPrincipal Work Activities for Contract no. HY/2009/19

March 2018	April 2018	May 2018	
• Nil	• Nil	• Nil	

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

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

March 2018	April 2018	May 2018	
Trimming of rock level	 Trimming of rock level 	• Nil	

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

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

March 2018	April 2018	May 2018
Diversion pipe maintenance	Diversion pipe maintenance	Diversion pipe maintenance
Seawall reinstatement	Seawall reinstatement	Seawall reinstatement



Noise Monitoring

- vi. 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.
- vii. Noise monitoring during day time and evening time were conducted at the M1a, M2b, M3a, M4b, M5b and M6 on a weekly basis in the reporting period. The Action and Limit level exceedances recorded in the reporting period are listed below. Investigation found that exceedances were not related to the Project.
- viii. With respect to the demolition of Ex-Harbour Road Sports Centre, the respective noise monitoring station M1a Harbour Road Sports Centre were finely adjusted on 16 and 25 May 2017 and thereafter to the Footbridge at Harbour Road Sports Centre for noise monitoring.
- ix. One limit level exceedances was recorded at NM station M6 HK Baptist Church Henrietta Secondary School on 6 March 2018 in the March 2018 reporting period. After the investigation, the exceedance was concluded as Project related.
- x. No action or limit level exceedance was recorded in the April 2018 reporting period.
- xi. No action or limit level exceedance was recorded in the May 2018 reporting period.

Air Quality Monitoring

- xii. No action or limit level exceedance was recorded in the March 2018 reporting period.
- xiii. No action or limit level exceedance was recorded in the April 2018 reporting period.
- xiv. One 1hr TSP action level exceedance was recorded at CMA2a Causeway Bay Community Centre on 26 May 2018 in the May 2018 reporting period. After the investigation, the exceedance was concluded as non-project related
- xv. 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
- xvi. The location ID of air monitoring station CMA1b was updated as Oil Street Site Office in April 2013.
- xvii. With respect to the area handover, the air quality monitoring station CMA5a at Children Playgrounds opposite to the Pedestrian Plaza was relocated to the Pedestrian Plaza on 3 December 2014. The station reference and location ID of the air quality monitoring station CMA5a was updated as CMA5b and Pedestrian Plaza respectively.
- xviii. 1hr and 24hr TSP monitoring were conducted at CMA1b, CMA2a, CMA3a, CMA4a, CMA5b and CMA6a in the reporting period.

Water Quality Monitoring

- xix. Action and Limit level of water quality monitoring was transited from dry season to wet season from 01 April 2018.
- xx. With respect to the Windsor House cooling water intake diversion on 17 May 2018, the monitoring location for the WQM Station C7 – Windsor House was fine adjusted to the permanent intake location from 19 May 2018 onwards.
- 4 action level exceedance of Turbidity were recorded at WQM station WSD19 in the March
 2018 reporting period. After investigation, the exceedances were concluded as non-Project
 related.

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- xxii. 3 action level exceedances of turbidity, 1 limit level exceedances of turbidity and 2 limit level exceedances of suspended solids were recorded at WQM station WSD19 in the April 2018 reporting period. After investigation, the exceedances were concluded as non-Project related.
- xxiii. 1 action level exceedance of turbidity and 4 limit level exceedance of turbidity were recorded at WQM station WSD19 in the May 2018 reporting period. 1 limit level exceedance of suspended solids was recorded at WQM station RW21-P789 was recorded in the May 2018 reporting period. After investigation, the exceedances were concluded as non-Project related.
- xxiv. Referring to CWB RSS confirmation on the completion of marine construction activities within the Ex-PCWA area and the completion of the post construction water quality monitoring, the respective Enhance DO Monitoring within Ex-PCWA for monitoring station Ex-PCWA SE and Ex-PCWA SW was temporarily suspended since 07 March 2017 ebb tide onwards.
- xxv. 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.
- xxvi. 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.
- xxvii. 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.
- xxviii. 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.
- xxix. 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.
- xxx. 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.
- xxxi. 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.
- xxxii. With respect to the formation of temporary reclamation zone TS3, Enhanced DO monitoring at Windsor House Cooling (Station Ref: C7) was temporarily suspended since 22 October 2014.
- xxxiii. With respect to the completion of removal of temporary reclamation zone, Enhanced DO monitoring at Windsor House Cooling (Station Ref: C7) was resumed from 1 February 2018 onwards.
- xxxiv. Enhanced DO monitoring at 1 monitoring station in Causeway Bay Typhoon Shelter was conducted three days per week during the December 2017 and January 2018 reporting period.
- xxxv. No action or limit level exceedance for Enhanced Dissolved Oxygen monitoring was recorded in the March 2018 reporting month.

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xxxvi. With respect to the completion of the removal of the temporary reclamation at TS3 area confirmed by the CWB RSS and the completion of the 4-weeks post construction water quality monitoring at the associated Enhanced DO monitoring stations, the respective Enhance DO monitoring at Monitoring Station C6 and C7 were temporarily suspended from 5 March 2017 ebb tide onwards.

Complaints, Notifications of Summons and Successful Prosecutions

xxxvii. No environmental complaint was received in the March, April and May 2018 reporting period.



1. INTRODUCTION

1.1 Scope of the Report

- 1.1.1. Lam Geotechnics Limited (LGL) has been appointed to work as the Environmental Team (ET) under Environmental Permit no. EP-356/2009 and Further Environmental permit nos. FEP-02/356/2009, FEP-03/356/2009, FEP-04/356/2009, FEP-06/356/2009, FEP-07/356/2009 and FEP-08/356/2009 to implement the Environmental Monitoring and Audit (EM&A) programme as stipulated in the EM&A Manual of the approved Environmental Impact Assessment (EIA) Report for Wan Chai Development phase II and Central-Wan Chai Bypass (Register No.: AEIAR-125/2008) and in the EM&A Manual of the approved EIA Report for Central-Wan Chai Bypass and Island Eastern Corridor Link (Register No. AEIAR-041/2001).
- 1.1.2. This report presents the environmental monitoring and auditing work carried out in accordance to the Section 10.4 of EM&A Manual and "*Environmental Monitoring and Audit Requirements*" under Particular Specification Section 27.
- **1.1.3.** This report documents the finding of EM&A works during the period from 27th March 2018 to 26th May 2018.

1.2 Structure of the Report

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

Section 8 Conclusion



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

 Table 2.1
 Schedule 2 Designated Projects under this Project

2.3 Division of the Project Responsibility

- 2.3.1 Due to the multi-contract nature of the Project, 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 *Table2.2*.



Contract Contract Title					
Contract No.	Contract Title	Associated DP(s)	Construction Commencement Date		
HK/2009/01 Wan Chai Development Phase II –		DP3, DP6	23 July 2010		
	Central –Wanchai Bypass at Hong Kong Convention and Exhibition Centre	DF3, DF0	(Completed)		
		DP1, DP2	25 August 2011		
		01,012	(Completed)		
HK/2009/02	Wan Chai Development Phase II –	DP3, DP5	5 July 2010		
	Central – Wan Chai Bypass at WanChai East	DP1	26 April 2011		
HY/2009/11	Wan Chai Development Phase II and	DP3	17 March 2010		
	Central – Wan Chai Bypass – North Point Reclamation	DP3	(Completed)		
HY/2009/15	Central-Wanchai Bypass – Tunnel		10 November 2010		
	(Causeway Bay Typhoon Shelter Section)	DP3	(Completed)		
		DP1	13 July 2011		
			(Completed)		
HK/2010/06	K/2010/06 Wan Chai Development Phase II- Central-Wan Chai Bypass over MTR DP3 Tsuen Wan Line		22 March 2011		
			(Completed)		
04/HY/2006	Reconstruction of Bus Terminus near	DP1	September 2010		
	Man Yiu Street and Man Kwong Street	DFI	(Completed)		
HY/2009/17	Central - Wan Chai Bypass (CWB) at FEHD Whitfield Depot - Advanced piling	DP1	5 October 2010		
	works.	DPT	(Completed)		
HY/2009/18	Central - Wan Chai Bypass (CWB) -	DP1	10 March 2014		
	Central Interchange	DFT	(Completed)		
HY/2009/19	Central - Wanchai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link	DP1	24 March 2011		
HK/2012/08	Wan Chai Development Phase II Central- Wan Chai Bypass at Wan Chai West	DP1,DP2, DP3	5 March 2013		
HY/2011/08	Central-Wan Chai Bypass (CWB) – Tunnel Buildings, Systems and Fittings, and Works Associated with Tunnel Commissioning	DP1	8 October 2014		

Table 2.2 Details of Individual Contracts under the Project



2.4 Project Organization and Contact Personnel

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

Party	Role	Post	Name	Contact No.	Contact Fax
AECOM	Engineer's Representative for WDII	Chief Resident Engineer	Ms. Gloria Tang	2587 1778	2587 1877
	Engineer's Representative for CWB	Principal Resident Engineer	Mr. Peter Poon	3912 3388	3912 3010
Chun Wo –	Contractor	Project Manager	Mr. Simon Liu	9304 8355	2587 1878
Leader Joint Venture	under Contract no. HK/2009/01	Environmental Officer	Mr. Terry Tsang	6683 9394	
Chun Wo –	Contractor	Project Manager	Mr. Paul Yu	3658 3085	2827 9996
CRGL Joint Venture	under Contract no. HK/2009/02	Quality & Environmental Manager	Mr. C.P. Ho	9191 8856	
China State Construction	Contractor under Contract	Project Director	Mr. Chris Leung	3557 6393	2566 2192
Engineering (HK) Ltd.	no. HY/2009/15	no. HY/2009/15 Site Agent	Mr. Patrick Ho	3557 6405	
		Construction Manager	Mr. Tom Tong	3557 6415	-
		Environmental Officer	Mr. Desmond Ho	3557 6347	
		Environmental Supervisor	Mr. Gordon Lai	6145 6365	
Chun Wo -	Contractor	Project Manager	Mr. David Lau	3758 8879	3757 8901
CRGL - MBEC Joint Venture	under Contract no. HY/2009/19	Site Agent	Mr. William Luk	3758 6868	
		Deputy Site Agent	Mr. Andy Chan	9879 4325	
		Environmental Manager /	Mr. M.H. Isa	9884 0810	
		Environmental Officer			
		Construction Manager (Marine)	Mr. Wingo Wong	9608 6366	

 Table 2.3
 Contact Details of Key Personnel



Party	Role	Post	Name	Contact No.	Contact Fax
		Construction Manager (Land)	Mr. Ray Ho	9834 1010	
		Construction Manager (Land)	Mr. Yung Kwok	9834 1010	
		Manager (Land)	Wah		
		Construction Manager (Ext. Works)	Mr. Paul Wan	6629 4652	
		Construction Manager (Approach Ramp Phase 1)	Mr. Billy Lam	9288 0405	
China State-	Contractor	Project Director	Mr. C. N. Lai	9106 5806	2877 1522
Build King Joint Venture	under Contract no. HK/2012/08	Project Manager	Mr. George Cheung	9268 1918	
		Environmental Officer	James Ma	9130 9549]
		Environmental Supervisor	Mr. Y. L. Ho	9856 5669	
China State	Contractor	Project Director	Mr. Chris Leung	3467 4299	2566 8061
	under Contract no. HY/2010/08	Project Manager	Mr. Chan Ying Lun	3418 3001	
		Site Agent	Mr. Thomas Lui	3557 6452	
		Marine Manager	Mr. Nickael Chan	3557 6333	
		Construction	Mr. Tom Tong	3557 6415	
		Manager			
		Environmental Officer	Mr. Gabriel Wong	3557 6466	
Ramboll Hong Kong Limited	Independent Environmental Checker (IEC)	Independent Environmental Checker (IEC)	Mr. David Yeung	3465 2888	3465 2899
Lam Geotechnics Limited	Environmental Team (ET)	Environmental Team Leader (ETL)	Mr. Raymond Dai	2882 3939	2882 3331



2.5 Principal Work and Activities

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

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

Γ	March 2018	April 2018	May 2018
•	• Nil	Removal of TWCR4	Removal of TWCR4

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

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

March 2018	April 2018	May 2018
• Nil	• Nil	• Nil

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

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

	March 2018	April 2018	May 2018
•	Trimming of rock level	 Trimming of rock level 	• Nil

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

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

March 2018	April 2018	May 2018
 Diversion pipe maintenance 	Diversion pipe maintenance	Diversion pipe maintenance
Seawall reinstatement	 Seawall reinstatement 	Seawall reinstatement

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



3. MONITORING REQUIREMENTS

3.1. Noise Monitoring

NOISE MONITORING STATIONS

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

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

 Table 3.1
 Noise Monitoring Stations

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

NOISE MONITORING PARAMETERS, FREQUENCY AND DURATION

- 3.1.2. The construction noise level shall be measured in terms of the A-weighted equivalent continuous sound pressure level (L_{eq}). L_{eq (30 minutes)} shall be used as the monitoring parameter for the time period between 0700 and 1900 hours on normal weekdays. For all other time periods, L_{eq (5 minutes)} shall be employed for comparison with the Noise Control Ordinance (NCO) criteria. Supplementary information for data auditing, statistical results such as L10 and L90 shall also be obtained for reference.
- 3.1.3. Noise monitoring shall be carried out at all the designated monitoring stations. The monitoring frequency shall depend on the scale of the construction activities. The following is an initial guide on the regular monitoring frequency for each station on a weekly basis when noise generating activities are underway:
 - one set of measurements between 0700 and 1900 hours on normal weekdays.
- 3.1.4. If construction works are extended to include works during the hours of 1900 0700 as well as public holidays and Sundays, additional weekly impact monitoring shall be carried out during respective restricted hours periods. Applicable permits under NCO shall be obtained by the Contractor.
- 3.1.5. Real time noise shall be carried out at the designated monitoring stations. The following is an initial guide on the regular monitoring frequency for each station on a 24 hours daily basis when noise generating activities are underway:



- One set of measurements between 0700 and 1900 hours on normal weekdays.
- One set of measurements between 1900 and 2300 hours on normal weekdays and 0700 and 2300 hours on public holidays.
- One set of measurements between 2300 and 0700 hours on next day on everyday.

MONITORING EQUIPMENT

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

3.2. Air Monitoring

AIR QUALITY MONITORING STATIONS

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

	5	
Station ID	Monitoring Location	Description
CMA1b	Oil Street Site Office**	North Point
CMA2a	Causeway Bay Community Centre	Causeway Bay
СМАЗа	CWB PRE Site Office *	Causeway Bay
CMA4a	Society for the Prevention of Cruelty to Animals	Wan Chai
CMA5b	Pedestrian Plaza***	Wan Chai
CMA6a	WDII PRE Site Office *	Wan Chai

Table 3.2 Air Monitoring Stations

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

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

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



AIR MONITORING PARAMETERS, FREQUENCY AND DURATION

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

SAMPLING PROCEDURE AND MONITORING EQUIPMENT

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

LABORATORY MEASUREMENT / ANALYSIS

3.2.7 A clean laboratory with constant temperature and humidity control, and equipped with necessary measuring and conditioning instruments to handle the dust samples collected,



shall be available for sample analysis, and equipment calibration and maintenance. The laboratory should be HOKLAS accredited.

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

IMPACT MONITORING FOR ODOUR PATROL

- 3.2.12 Odour patrols along the shorelines of Causeway Bay Typhoon Shelter and ex-Wan Chai Public Cargo Working Area when there is temporary reclamation in Causeway Bay Typhoon Shelter and/or in the ex-Wan Chai Public Cargo Working Area, or when there is dredging of the odorous sediment and slime at the south-western corner of the Causeway Bay Typhoon Shelter. Odour patrols will be carried out at bi-weekly intervals during July, August and September by a qualified person of the ET who shall:
 - be at least 16 years of age;
 - be free from any respiratory illnesses; and
 - not be allowed to smoke, eat, drink (except water) or use chewing gum or sweets 30 min
 - before and during odour patrol
- 3.2.13 Odour patrol shall be conducted by independent trained personnel / competent persons patrolling and sniffing around the shore as shown in *Figure 3.1* to detect any odour at the concerned hours (afternoon is preferred for higher daily temperature).
- 3.2.14 The qualified person will use the nose (olfactory sensor) to sniff odours at different locations. The main odour emission sources and the areas to be affected by the odour nuisance will be identified.
- 3.2.15 The perceived odour intensity is to be divided into 5 levels which are ranked in the descending order as follows:



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

3.3 Water Quality Monitoring

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

Water Quality Monitoring Stations

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

Station Ref.	Location	Easting	Northing
WSD Salt Water I	ntake		
WSD19	Sheung Wan	833415.0	816771.0
Cooling Water Int	take		
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

 Table 3.3
 Marine Water Quality Stations for Water Quality Monitoring



Station Ref.	Location	Easting	Northing
Cooling Water Inta	ke / WSD Salt Water Intake		
RW21-P789	Great Eagle Centre/ Sun Hung Kai Centre/ WSD Wanchai salt water intake	836268.0	816020.0
water - 4-wee C8 an and W impler - C8 an - C8 a - WSD 2012. - C2, C 24 Ap - C5e a 2013. - WSD Sep 2 - The w HK/20	essation of seawater intake operation fo monitoring at C6 was then terminated s ek post construction water quality monito ad C9 were completed on 6 Feb 2012 an /SD15 were temporary suspended since mented with respect to HK/2009/02 from ad C9 were implemented with respect to C9 were temporary suspended since 30 7 and WSD20 water quality monitoring w 3 C4e and C4w water quality monitoring r 2013 and C5w water quality monitoring station	ince 17 May 2011. ring at WSD9, WSD10 d the water quality mo a 8 Feb 2012, and WS a 8 Feb 2012 onwards. HY/2009/19 from 28 J March 2013. vere temporarily suspended tation was temporarily emporarily suspended tation was temporarily be associated with Con- works under DP3 at W	D, WSD15, WSD17, onitoring at WSD 10 D9 and WSD17 was lan 2012. ended from 27 Apr ily suspended since ended since 29 July since 12 Mar 2014 suspended since 8 ntract No. CR3 area
- The w	I-P789W since 28 November 2016 ebb- vater quality monitoring was reverted to p PW21-P789E and RW21-P789W from 2	previous monitoring st	

WATER QUALITY PARAMETERS AND FREQUENCY

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



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

Table 21	Marina Water Qualit	v Monitorina E	roquonov and	Daramotors
I able 3.4	Marine Water Qualit	y wontoning F	requency and	r ai ai i etei s

Notes:

1. For selection of tides for in-situ measurement and water sampling, tidal range of individual flood and ebb tides should be not less than 0.5m.

2. Turbidity should be measured in situ whereas SS should be determined by laboratory.

DISSOLVED OXYGEN AND TEMPERATURE MEASURING EQUIPMENT

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

TURBIDITY MEASUREMENT INSTRUMENT

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

SAMPLER

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



SAMPLE CONTAINER AND STORAGE

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

WATER DEPTH DETECTOR

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

<u>SALINITY</u>

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

MONITORING POSITION EQUIPMENT

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

CALIBRATION OF IN-SITU INSTRUMENTS

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

LABORATORY MEASUREMENT / ANALYSIS

3.3.19 Analysis of suspended solids has been carried out in a HOKLAS accredited laboratory, ALS Technichem (HK) Pty Ltd. Water samples of about 1L shall be collected at the monitoring stations for carrying out the laboratory SS determination. The SS determination work shall start within 24 hours after collection of the water samples. The SS determination shall follow APHA 19ed or equivalent methods subject to the approval of IEC and EPD.



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

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

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

Table 3.5 Marine Water Quality Stations for Enhanced Water Quality Monitoring

Remarks:

- 1. Enhanced DO monitoring at Windsor House Cooling (Station Ref: C7) was temporarily suspended since 22 October 2014 with respect to the formation of temporary reclamation zone TS3 and was resumed from 1 February 2018 onward with respect to the completion of removal of temporary reclamation zone.
- 2. Enhanced DO monitoring at Monitoring station at Ex-WPCWA SE was temporarily suspended from 31 August 2015 with respect to seawall reinstatement works and formation of active works area. The Enhance DO monitoring at Ex-WPCWA SE was resumed on 11 May 2016 due to completed section of seawall reinstatement works are Ex-PCWA.
- 3.3.22 The monitoring of dissolved oxygen are to be carried out 3 days per week, at mid-flood and mid-ebb tides for 3 water depths (1m below water surface, mid-depth and 1m above sea bed, except where the water depth less than 6m, the mid-depth may be omitted. If the water depth be less than 3m, only the mid-depth will be monitored).

DAILY SS MONITORING AND 24 HOURS TURBIDITY MONITORING SYSTEM

- 3.3.23 During dredging of the sediment at the south-western corner of the Causeway Bay Typhoon Shelter, daily monitoring of suspended solids and 24 hour monitoring of turbidity at the cooling water intakes (C6 and C7) shall be conducted.
- 3.3.24 The 24 hours monitoring of turbidty at the cooling water intakes (C6 and C7) shall be established by setting up a continuous water quality monitoring station in front of the intakes during the dredging activities. The monitoring system include the turbidity sensor and data logger which is capable of data capturing at every 5 minutes. The data shall be downloaded



daily and compared with the Action and Limit level determined during the baseline water qualtiy monitoring at the cooling water intake locations.

ADDITIONAL DISSOVLED OXYGEN MONITORING FOR CULVERT L WATER DISCHARGE FLOW

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



4. MONITORING RESULTS

- 4.0.1. The environmental monitoring will be implemented based on the division of works areas of each designed project managed under different contracts with separate FEP applied by individual contractors. Overall layout showing work areas of various contracts, latest status of work commencement and monitoring stations is shown in <u>Figure 2.1</u> and <u>Figure 3.1</u>. The monitoring results are presented in according to the Individual Contract(s).
- 4.0.2. According to EP-364/2009/A Part B, "Scale and Scope of Designated Project", Remarks (c), "The permanent and temporary reclamation and associated dredging works related to the CWB construction are separately covered by environmental permit No. EP-356/2009 issued to Civil Engineering and Development Department", and marine piling works to be conducted by the Contractor of Contract no. HY/2009/19 from 28 January 2012 was considered to be governed under EP-356/2009. As the construction site area of Contract no. HY/2009/11 had already been handed over to Contract no. HY/2009/19, the designated noise, water and air quality monitoring stations for Contract no. HY/2009/11 would be shared with Contract no. HY/2009/19 from 28 January 2012.
- 4.0.3. As confirmed by WDII RSS, the marine construction works under Contract HK/2009/01 have been completed since 24 July 2017, the monitoring association with Contract HK/2009/01 and relevant reporting has been ceased from November 2017. FEP-02/356/356/2009 under Contract HK/2009/01 was surrendered on 19 April 2018.
- 4.0.4. As confirmed by CWB RSS, the marine construction works under Contract HY/2009/15 and relevant reporting have been completed by 19 June 2017, the monitoring association with Contract HY/2009/15 and relevant reporting has been ceased from November 2017.

4.1. Noise Monitoring Results

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

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

Station	Description
M1a	Footbridge at Ex-Harbour Road Sports Centre

Table 4.1Noise Monitoring Station for Contract nos. HK/2009/02

4.1.2. No action or limit level exceedance was recorded in the March, April and May 2018 reporting period.

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

4.1.3. Noise quality monitoring at M4b and M5b have been implemented with respect to HY/2009/19 since the marine bore piling work started on 28 Jan 2012.



4.1.4. The proposed division of noise monitoring stations for Contract no. HY/2009/19 are summarized in *Table 4.3* below:

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

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

- 4.1.1 One limit level exceedance was recorded at M6 HK Baptist Church Henrietta Secondary School on 6 March 2018.
- 4.1.2 Concurrent breaking and saw cutting works on IECL opposite to Henrietta Secondary School under Contract HY/2009/19 was conducted during the measurement on 06 March 2018 and the noise contribution from the concurrent operation was observed as the major noise contribution. Hence, the exceedance was considered as Project related. Remedial actions including saw cutting works alone without concurrent operation of breaker and provision of additional temporary noise barrier for cutting works were implemented by the Contractor and no further exceedances was recorded during the additional monitoring on 08 March 2018. The Contractor of HY/2009/19 was advised to avoid future concurrent operation of major noise emanating works such as breaking and saw cutting works to avoid potential cumulative impact.
- 4.1.3 No action or limit level exceedance was recorded in the April 2018 reporting month.
- 4.1.4 No action or limit level exceedance was recorded in the May 2018 reporting month.

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

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

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

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

4.1.6. No action or limit level exceedance was recorded in the March, April and May 2018 reporting period.

4.1.7. All Noise monitoring results measured in this reporting period are reviewed and summarized. Details of noise monitoring results and graphical presentation can be referred in <u>Appendix</u> <u>4.1</u>.



4.2. Air Monitoring Results

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

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

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

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

Station	Description	
CMA3a	CWB PRE Site Office	
CMA4a	Society for the Prevention of Cruelty to Animals	

4.2.3 No action or limit exceedance was recorded in in the March, April and May 2018 reporting period. .

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

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

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

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

- 4.2.6 No action or limit exceedance was recorded in March 2018 reporting period.
- 4.2.7 No action or limit exceedance was recorded in April 2018 reporting period.
- 4.2.8 One 1hr TSP action level exceedance was recorded at CMA2a Causeway Bay Community Centre on 26 May 2018 in May 2018 reporting period.

After the investigation, no construction works was conducted under HY/2009/19 on the monitoring date and no particular observation regarding to air quality impact was observed during sampling. Meanwhile, non WDII-CWB Project construction works was observed opposite to the monitoring station. In view of the above, the exceedance was considered to be not related to the Project works under Contract HY/2009/19 and potentially contributed by non-WDII-CWB project construction works was observed opposite to the monitoring station.



Nevertheless, the Contractor of HY/2009/19 was reminded to provide regularly dust suppression measures if any potential dust generating operation around the concerned location would be required to avoid any potential cumulative air quality impact.

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

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

Table 4.9 Air Monitoring Stations for Contract no. HK/2012/08

Station	Description	
CMA5b	Pedestrian Plaza	
CMA6a	WDII PRE Site Office	

- 4.2.10 No action or limit level exceedance was recorded in the March 2018 reporting period.
- 4.2.11 No action or limit level exceedance was recorded in the April 2018 reporting period.
- 4.2.12 No action or limit level exceedance was recorded in the April 2018 reporting period. <u>Contract no. HY/2010/08- Central-Wanchai Bypass Tunnel (Slip Road 8 Section)</u>
- 4.2.13 The proposed division of air monitoring stations are summarized in *Table 4.10* below.

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

Station	Description
CMA3a	CWB PRE Site Office

4.2.14 No action or limit exceedance was recorded in in the March, April and May 2018 reporting month.



4.3. Water Monitoring Results

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

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

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

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

- 4.3.2 No action or limit level exceedance was recorded in the March 2018 reporting period.
- 4.3.3 No action or limit level exceedance was recorded in the April 2018 reporting period.
- **4.3.4** 1 limit level exceedance of suspended solids was recorded at RW21-P789 on 30 April 2018 during ebb tide in the May 2018 reporting period.

Loading of C & D materials to barge at Portion 3 & 4 under Contract HK/2009/02 was conducted on the monitoring. Location of the construction area was at downstream of monitoring station RW21-P789 during the monitoring period and contractor mitigation measure including the use of silt curtain and installation of silt screen was general in order. Meanwhile, silt screen washing by Non-WDII contractor was observed at the nearby of the monitoring station. In view of the above, it is considered the exceedance was not related to Project work. No exceedance was recorded on the subsequent monitoring on 30 April 2018 Flood tide.

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

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

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		

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



Station Ref.	Location	Easting	Northing
P5	Government Buildings (Wanchai Tower / Revenue Tower / Immigration Tower)	835895.2	816215.2

4.3.6 4 action level exceedances of turbidity were recorded at WQM station – WSD19 in the March 2018 reporting period.

1 action level exceedance was recorded at WQM station – WSD19 on 16 March 2018 during ebb tide. No marine construction activity under Contract HK/2012/08 was conducted on the monitoring date. In view of above, it is considered the exceedance was not related to Project work. No exceedance was recorded in the subsequent monitoring on 16 March 2018 Flood tide.

1 action level exceedance was recorded at WQM station – WSD19 on 19 March 2018 during ebb tide. No marine construction activity under Contract HK/2012/08 was conducted on the monitoring date. In view of above, it is considered the exceedance was not related to Project work.

1 action level exceedance was recorded at WQM station - WSD19 on 21 March 2018 during flood tide. No marine construction activity under Contract HK/2012/08 was conducted on the monitoring date. In view of above, it is considered the exceedance was not related to Project work. No exceedance was recorded in the subsequent monitoring on 21 March 2018 Ebb tide.

1 action level exceedance was recorded at WQM station - WSD19 on 26 March 2018 during flood tide. No marine construction activity under Contract HK/2012/08 was conducted on the monitoring date. In view of above, it is considered the exceedance was not related to Project work. No exceedance was recorded in the subsequent monitoring on 26 March 2018 Ebb tide.

4.3.7 3 action level exceedances of turbidity, 1 limit level exceedance of turbidity and 2 limit level exceedances of suspended solids were recorded at WQM station – WSD19 in the April 2018 reporting period.

1 action level exceedance of turbidity was recorded at WQM station – WSD19 on 28 March 2018 during flood tide. After the investigation, no marine construction activity under Contract HK/2012/08 was conducted on the monitoring date. In view of above, it is considered the exceedance was not related to Project work. No exceedance was recorded in the subsequent monitoring on 28 March 2018 Ebb tide.

1 action level exceedance of turbidity was recorded at WQM station – WSD19 on 14 April 2018 during ebb tide. After the investigation, no marine construction activity under Contract HK/2012/08 was conducted on the monitoring date. In view of above, it is considered the exceedance was not related to Project work. No exceedance was recorded in the subsequent monitoring on 14 April 2018 Flood tide.

1 action level exceedance of turbidity was recorded at WQM station – WSD19 on 16 April 2018 during ebb tide. After the investigation, No marine construction activity under Contract HK/2012/08 was conducted on the monitoring date. In view of above, it is considered the



exceedance was not related to Project work. No exceedance was recorded in the subsequent monitoring on 16 April 2018 Flood tide.

1 limit level exceedance of turbidity and 1 limit level exceedance suspended solids were recorded at WQM station – WSD19 on 18 April 2018 during ebb tide. After the investigation, no marine construction activity under Contract HK/2012/08 was conducted on the monitoring date. In view of above, it is considered the exceedance was not related to Project work.

1 limit level exceedance suspended solids were recorded at WQM station – WSD19 on 18 April 2018 during flood tide. After the investigation, no marine construction activity under Contract HK/2012/08 was conducted on the monitoring date. In view of above, it is considered the exceedance was not related to Project work. No exceedance was recorded in the subsequent monitoring on 20 April 2018 Flood tide.

4.3.8 4 limit level and 1 action level exceedances of turbidity were recorded at WSD19 in the May 2018 reporting period.

1 limit level exceedance of turbidity was recorded at WSD19 on 27 April 2018 during flood tide. No marine construction activity under Contract HK/2012/08 was conducted on the monitoring date. In view of above, it is considered the exceedance was not related to Project work. No exceedance was recorded in the subsequent monitoring on 30 April 2018 Ebb tide.

1 limit level exceedance of turbidity was recorded at WSD 19 on 12 May 2018 during ebb tide. No marine construction activity under Contract HK/2012/08 was conducted on the monitoring date. In view of above, it is considered the exceedance was not related to Project work. No exceedance was recorded in the subsequent monitoring on 12 May 2018 Flood tide.

1 limit level exceedance of turbidity was recorded at WSD 19 on 14 May 2018 during ebb tide in the reporting month. No marine construction activity under Contract HK/2012/08 was conducted on the monitoring date. In view of above, it is considered the exceedance was not related to Project work.

1 limit level exceedance of turbidity was recorded at WSD 19 on 14 May 2018 during flood tide. No marine construction activity under Contract HK/2012/08 was conducted on the monitoring date. In view of above, it is considered the exceedance was not related to Project work

1 action level exceedance of turbidity was recorded at WSD 19 on 16 May 2018 during flood tide in the reporting month. No marine construction activity under Contract HK/2012/08 was conducted on the monitoring date. In view of above, it is considered the exceedance was not related to Project work.



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

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

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

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

4.3.10 No action or limit level exceedance was recorded in the March 2018 reporting period.

- 4.3.11 No action or limit level exceedance was recorded in the April 2018 reporting period.
- 4.3.12 No action or limit level exceedance was recorded in the May 2018 reporting period.

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

Station Ref.	Location	
C6	Excelsior Hotel	
C7	Windsor House Cooling	

Remarks:

Enhanced DO monitoring at Windsor House Cooling (Station Ref: C7) was temporarily suspended since 22 October 2014 with respect to the formation of temporary reclamation zone TS3 and was resumed from 1 February 2018 onwards with respect to the completion of removal of temporary reclamation zone.

- 4.3.13 No action or limit level exceedance was recorded in the March 2018 reporting period.
- 4.3.14 With respect to the completion of the removal of the temporary reclamation at TS3 area confirmed by the CWB RSS and the completion of the 4-weeks post construction water quality monitoring at the associated Enhanced DO monitoring stations, the respective Enhance DO monitoring at Monitoring Station C6 and C7 were temporarily suspended from 5 March 2017 ebb tide onwards.



4.4 Waste Monitoring Results

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

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

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

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

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



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

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

Waste Type	Quantity this quarter	Cumulative Quantity- to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m ³	11652.5	287727.6	TKO137/ TM 38
Inert C&D materials recycled, m ³	NIL	18161	N/A
Non-inert C&D materials disposed, m ³	NIL	1515.103	SENT Landfill
Non-inert C&D materials recycled, m ³	N/A	N/A	N/A
Chemical waste disposed, kg	NIL	13860	SENT Landfill
Marine Sediment (Type 1 – Open Sea Disposal), m ³	NIL	240222 (Bulk volume)	South of Cheung Chau
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal), m ³ *	NIL	146445 (Bulk volume)	East of Sha Chau

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

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



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

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

Waste Type	Quantity this quarter	Cumulative Quantity-to-Date	Disposal / Dumping Grounds	Remarks
Inert C&D materials disposed, m ³	NIL	141579.2	Tuen Mun Area 38	NIL
	NIL	65216	TKO137 FB	NIL
Inert C&D materials	NIL	8127.21	HY/2010/08	NIL
recycled, m ³	NIL	304	Ex-PCWA	NIL
	NIL	111.9	TS4	NIL
Non-inert C&D materials disposed, m ³	NIL	252.2	SENT Landfill	NIL
Non-inert C&D materials recycled, kg	NIL	299361.5	N/A	NIL
Chemical waste disposed, kg	NIL	8,200	N/A	NIL
Marine Sediment (Type 1 – Open Sea Disposal) , m ³	NIL	156909 (Bulk Volume)	South of Cheung Chau	Dredging from TCBR1E / TCBR1W / TCBR2/ TCBR3 / TCBR4 / Maintenance dredging
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal) , m ³	NIL	327746 (Bulk Volume)	East of Sha Chau	Dredging from TCBR1E / TCBR1W / TCBR2/ TCBR3 / TCBR4 / Maintenance dredging
Marine Sediment (Type 3 – Special Treatment / Disposal contained in Geosynthetic Containers)	NIL	12640 (Bulk Volume)	East of Sha Chau	Dredging from TCBR1W / Maintenance dredging
Marine Sediment (Type 2 – Confined Marine Disposal), m3	NIL (Bulk Volume)	9350 (Bulk Volume)	East of Sha Chau	Dredging from Eastern Breakwater of CBTS
Marine Sediment (Type 1 – Open Sea Disposal) , m3	NIL (Bulk Volume)	600 (Bulk Volume)	East Sha Chau / South of The Brothers	Dredging from Phase 3 Mooring Re- arrangement

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



Waste Type	Quantity this quarter	Cumulative Quantity-to-Date	Disposal / Dumping Grounds	Remarks
Marine Sediment (Type 2– Confined Marine Disposal) , m3	NIL (Bulk Volume)	14,780 (Bulk Volume)	South of The Brothers	Dredging from Phase 3 Mooring Re- arrangement
Marine Sediment (Type 3 – Special Treatment / Disposal contained in Geosynehetic Containers), m3	NIL (Bulk Volume)	2,760 (Bulk Volume)	South of The Brothers	Dredging from Phase 3 Mooring Re- arrangement

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



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

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

Waste Type	Quantity this quarter	Cumulative Quantity- to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m ³	NIL	355921.04	TM38
Inert C&D materials recycled, m ³	NIL	59367	N/A
Non-inert C&D materials disposed, m ³	NIL	1068.6	N/A
Non-inert C&D materials recycled, kg	NIL	333.14	N/A
Chemical waste disposed, L	NIL	2.12	N/A
Marine Sediment (Type 1 – Open Sea Disposal), m ³	NIL	162	South Cheung Chau
$\begin{array}{l} \mbox{Marine Sediment (Type 2 - Confined Marine Disposal) ,} \\ \mbox{m}^3 \end{array}$	NIL	681	East Sha Chau
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal) , m3	NIL	4976.00	N/A

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

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



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

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

Waste Type	Quantity this quarter	Cumulative Quantity- to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed,	NIL	4131	TM38
m ³	NIL	273	TKO 137
Inert C&D materials recycled, m ³	NIL	NIL	NIL
Non-inert C&D materials disposed, m ³ *	NIL	400	SENT
Non-inert C&D materials recycled, kg	NIL	NIL	N/A
Chemical waste disposed, L	NIL	NIL	N/A
Marine Sediment (Type 1 -	NIL	31759	South of Cheung
Open Sea Disposal), m ³ *	(Bulk volume)	(Bulk volume)	Chau
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal) , m ³ *	NIL (Bulk volume)	108542 (Bulk volume)	South of The Brothers (from 27 Aug 2013 onwards)

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

 4.4.10 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 quarter.



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

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

Waste Type	Quantity this quarter	Cumulative Quantity- to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed,	2661.444	95094.759	TM38
m ³	NIL	19739.4	TKO137
Inert C&D materials recycled, m ³	NIL	NIL	N/A
Non-inert C&D materials disposed, m ³	NIL	NIL	N/A
Non-inert C&D materials recycled, kg	NIL	NIL	N/A
Chemical waste disposed, L	NIL	NIL	N/A
Marine Sediment (Type 1 – Open Sea Disposal)	NIL	62559.4	South Cheung Chau
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine disposal)	NIL	28309.2	Brothers Island
Marine Sediment (Type 3 – Special Treatment)	NIL	7780	Brothers Island

Table 4.23 Details of Waste Disposal for Contract I	10 HY/2010/08
Table 4.25 Details of Waste Disposal for Contract	10.111/2010/00

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



5. COMPLIANCE AUDIT

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

5.1. Noise Monitoring

Reporting period of March 2018

One limit level exceedance was recorded at NM station M6 – HK Baptist Church Henrietta Secondary School on 6 March 2018 in the reporting period. After the investigation, the exceedance was concluded as project related.

Reporting period of April 2018

5.1.1 No action or limit level exceedance was recorded in the reporting period.

Reporting period of May 2018

5.1.2 No action or limit level exceedance was recorded in the reporting period.

5.2. Air Monitoring

Reporting period of March 2018

5.2.1 No action or limit level exceedance was recorded in the reporting period.

Reporting period of April 2018

5.2.2 No action or limit level exceedance was recorded in the reporting period.

Reporting period of May 2018

5.2.3 One 1hr TSP action level exceedance was recorded at CMA2a – Causeway Bay Community Centre on 26 May 2018 in the reporting period. After the investigation, the exceedance was concluded as non-project related.

5.3. Water Quality Monitoring

Reporting period of March 2018

- 5.3.1 4 action level exceedance of Turbidity were recorded at WQM station WSD19 in the March 2018 reporting period. After investigation, the exceedances were concluded as non-Project related.
- 5.3.2 No action or limit level exceedance was recorded at Enhanced DO monitoring station C6 and C7 in the March 2018 reporting period.



5.3.3 With respect to the completion of the removal of the temporary reclamation at TS3 area confirmed by the CWB RSS and the completion of the 4-weeks post construction water quality monitoring at the associated Enhanced DO monitoring stations, the respective Enhance DO monitoring at Monitoring Station C6 and C7 were temporarily suspended from 5 March 2017 ebb tide onwards.

Reporting period of April 2018

5.3.4 3 action level exceedances of turbidity, 1 limit level exceedances of turbidity and 2 limit level exceedances of suspended solids were recorded at WQM station WSD19 in the April 2018 reporting period. After investigation, the exceedances were concluded as non-Project related.

Reporting period of May 2018

5.3.5 1 action level exceedance of turbidity and 4 limit level exceedance of turbidity were recorded at WQM station WSD19 in the reporting month. 1 limit level exceedance of suspended solids was recorded at WQM station RW21-P789 was recorded in the reporting month. After investigation, the exceedances were concluded as non-Project related.

5.4. Site Audit

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

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

Reporting period of March 2018

5.5.1 Project related exceedances were recorded at NM station M6 on station M6 – HK Baptist Church Henrietta Secondary School on 6 March 2018 in the reporting period. After the investigation, the exceedance was concluded as project related.

Concurrent breaking and saw cutting works on IECL opposite to Henrietta Secondary School under Contract HY/2009/19 was conducted during the measurement on 06 March 2018 and the noise contribution from the concurrent operation was observed as the major noise contribution. Hence, the exceedance was considered as Project related.

Reporting period of April 2018

5.5.2 There was no non-compliance from the site audits in the April 2018 reporting period.

Reporting period of May 2018

5.5.3 There was no non-compliance from the site audits in the May 2018 reporting period.

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

Reporting period of March 2018



5.6.1 With respect to the noise exceedance recorded at NM station M6, remedial actions including saw cutting works alone without concurrent operation of breaker and provision of additional temporary noise barrier for cutting works were implemented by the Contractor and no further exceedances was recorded during the additional monitoring on 08 March 2018. The Contractor of HY/2009/19 was advised to avoid future concurrent operation of major noise emanating works such as breaking and saw cutting works to avoid potential cumulative impact.

Reporting period of April 2018

5.6.2 There was no particular action taken since no non-compliance was recorded from the site audits in the April 2018 reporting period.

Reporting period of May 2018

5.6.3 There was no particular action taken since no non-compliance was recorded from the site audits in the May 2018 reporting period.



6. COMPLAINTS, NOTIFICATION OF SUMMONS AND PROSECUTION

- 6.0.1. No environmental complaint was received in the March, April and May 2018 reporting period. .
- 6.0.2. The details of cumulative complaint log and summary of complaints are presented in *Appendix 6.1.*
- 6.0.3. Cumulative statistic on complaints and successful prosecutions are summarized in *Table 6.1* and *Table 6.2* respectively.

Table 6.1 Cumulative Statistics on Complaints

Reporting Period	No. of Complaints
Commencement works (Mar 2010) to last reporting quarter	47
March to May 2018	0
Project-to-Date	47

	Table 6.2	Cumulative Statistics on Successful Prosecutions
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Environmental Parameters	Cumulative No. Brought Forward	No. of Successful Prosecutions this quarter (Offence Date)	Cumulative No. Project-to-Date
Air	-	0	0
Noise	-	0	0
Water	-	0	0
Waste	- 0		0
Total	-	0	0



7. CUMULATIVE CONSTRUCTION IMPACT DUE TO THE CONCURRENT PROJECTS

- 7.0.1. According to Condition 3.4 of the EP-356/2009, this section addresses the relevant cumulative construction impact due to the concurrent activities of the current projects including the Central Reclamation Phase III, Central-Wanchai Bypass and Island Eastern Corridor Link projects.
- 7.0.2. According to the Final EM&A Report of Central Reclamation Phase III (CRIII) for Contract HK 12/02, the major construction activities were completed by end of January 2014 and no construction activities were undertaken thereafter and the water quality monitoring was completed in October 2011 and no Project-related exceedance was recorded for air and noise monitoring. It can be concluded that cumulative construction impact due to the concurrent activities of the current projects with the Central Reclamation Phase III (CRIII) was insignificant.
- 7.0.3. According to the construction programme of Central-Wanchai Bypass at Wanchai West at the Central Reclamation Phase III area include roadworks, drainage and asphalt paving were performed in May 2018 reporting period. As no project related exceedance were recorded during the reporting period, cumulative construction impact due to the concurrent activities of the current projects with the Central Reclamation Phase III (CRIII) was considered as insignificant.
- 7.0.4. According to the construction programme of Wan Chai Development Phase II, Central-Wan Chai Bypass and Island Eastern Corridor Link projects, the major construction activities under Wan Chai Development Phase II were road and drains construction and removal of temporary reclamation at Wan Chai. The major construction activities under Central-Wan Chai Bypass and Island Eastern Corridor Link Projects were drainage works and ventilation building construction at Central; reinstatement works along Causeway Bay Typhoon Shelter, road works and landscape works at Victoria Park; bridge construction, approach ramp construction, landscape deck construction and ventilation building construction at North Point area in the reporting period. In addition, other non-Wan Chai Development Phase II, Central-Wan Chai Bypass and Island Eastern Corridor Link projects were observed undertaken at Wan Chai North and North Point area.
- 7.0.5. No significant air impact from construction activities was anticipated in the reporting month. Besides, no project related exceedance was recorded during the air and noise environmental monitoring events in the reporting month. Thus, it is evaluated that the cumulative construction impact from the concurrent projects including Central Reclamation Phase III (CRIII), Wan Chai Development Phase II (WDII), Central-WanChai Bypass (CWB), Island Eastern Corridor Link projects (IECL) was insignificant.



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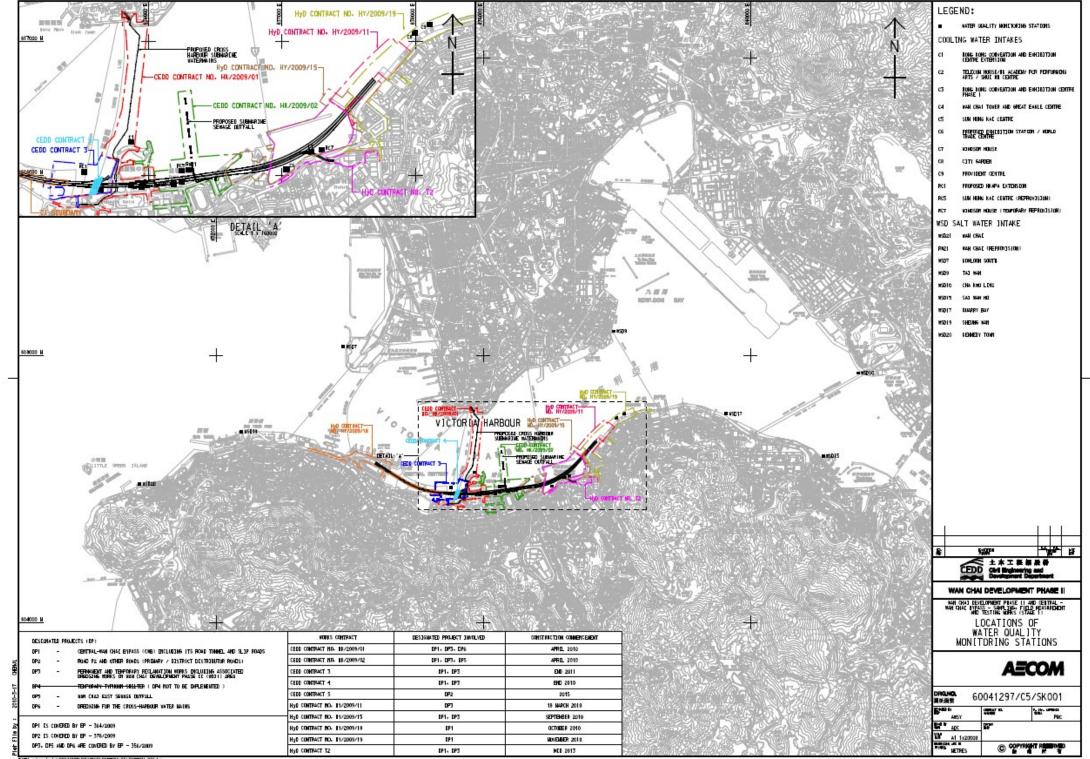
8. CONCLUSION

- 8.0.1. The EM&A programme was carried out in accordance with the EM&A Manual requirements, minor alterations to the programme proposed were made in response to changing circumstances.
- 8.0.2. Project related exceedances were recorded at NM station M6 on station M6 HK Baptist Church Henrietta Secondary School on 6 March 2018 in the March 2018 reporting period. After the investigation, the exceedance was concluded as project related. Concurrent breaking and saw cutting works on IECL opposite to Henrietta Secondary School under Contract HY/2009/19 was conducted during the measurement on 06 March 2018 and the noise contribution from the concurrent operation was observed as the major noise contribution. Hence, the exceedance was considered as Project related.
- 8.0.3. There was no non-compliance from the site audits in the April and May 2018 reporting period.
- 8.0.4. No environmental complaint was received in the March, April and May 2018 reporting period.
- 8.0.5. No summon or prosecution was received in the March, April and May 2018 reporting period.
- 8.0.6. The construction programmes of individual contracts are provided in *Appendix 8.1*.

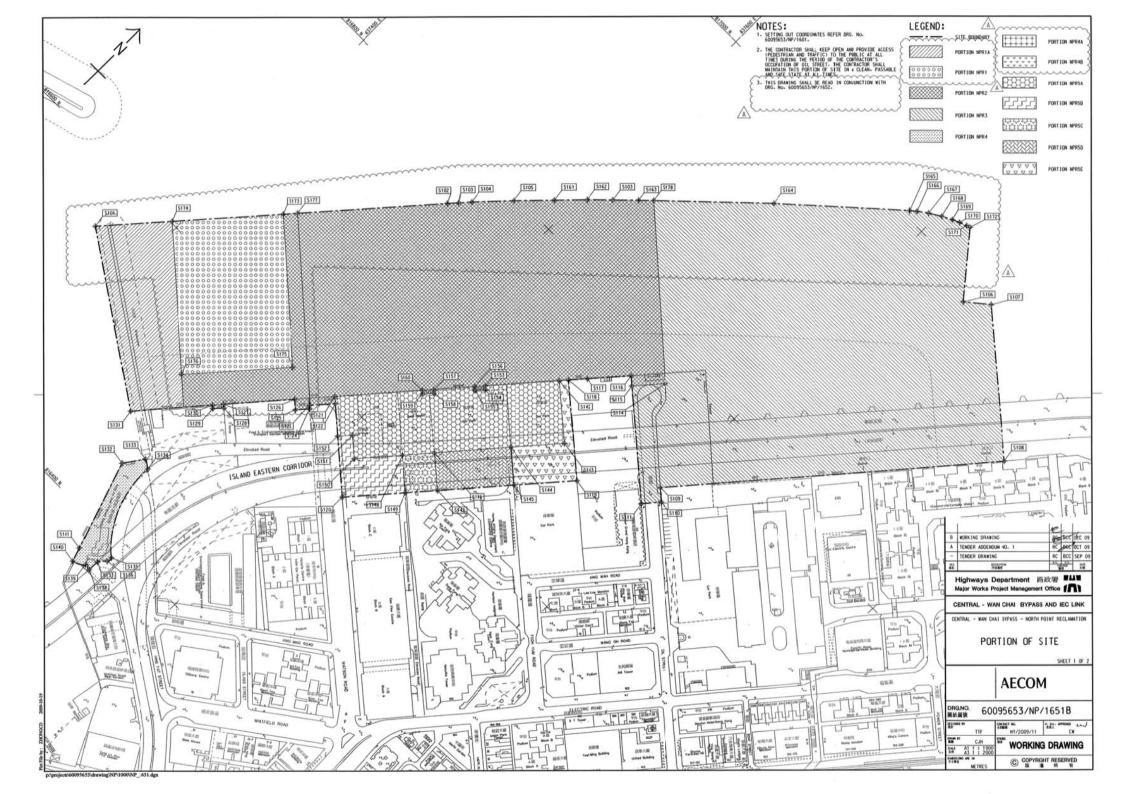


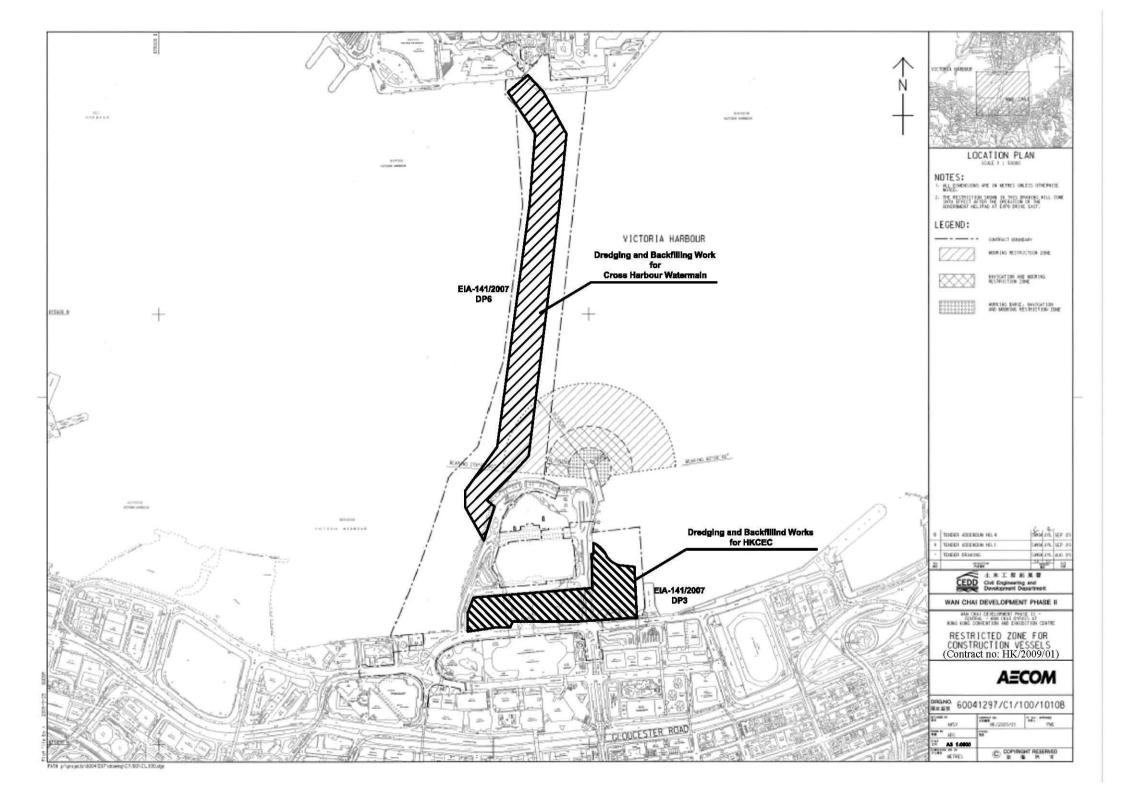
Figure 2.1

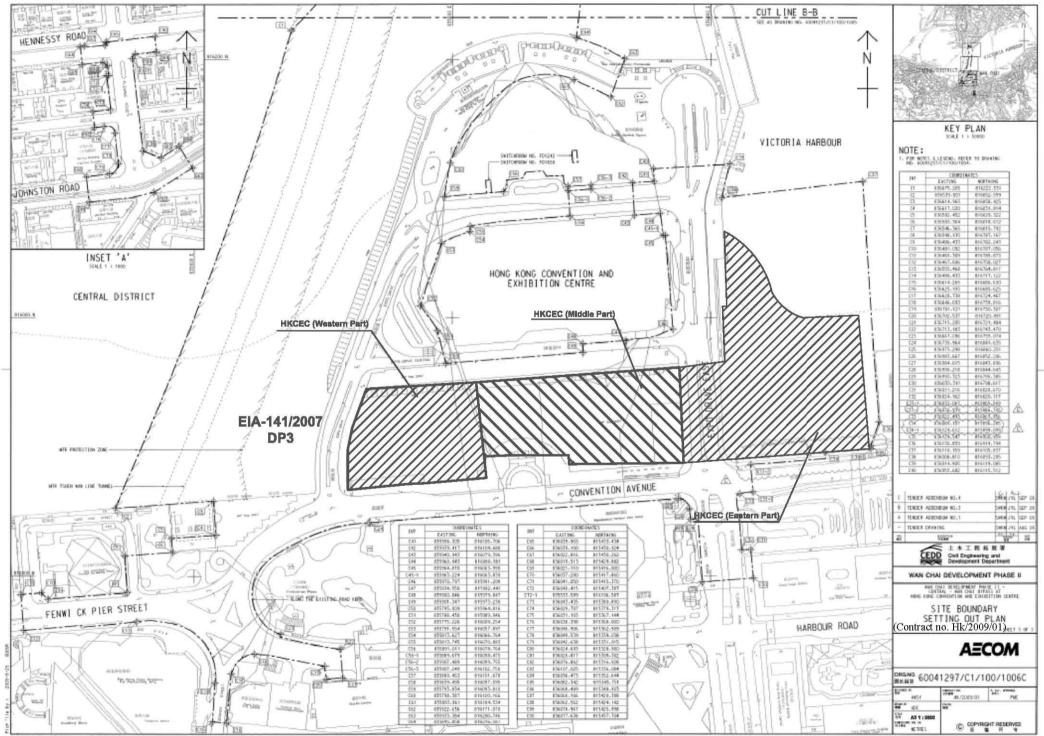
Project Layout



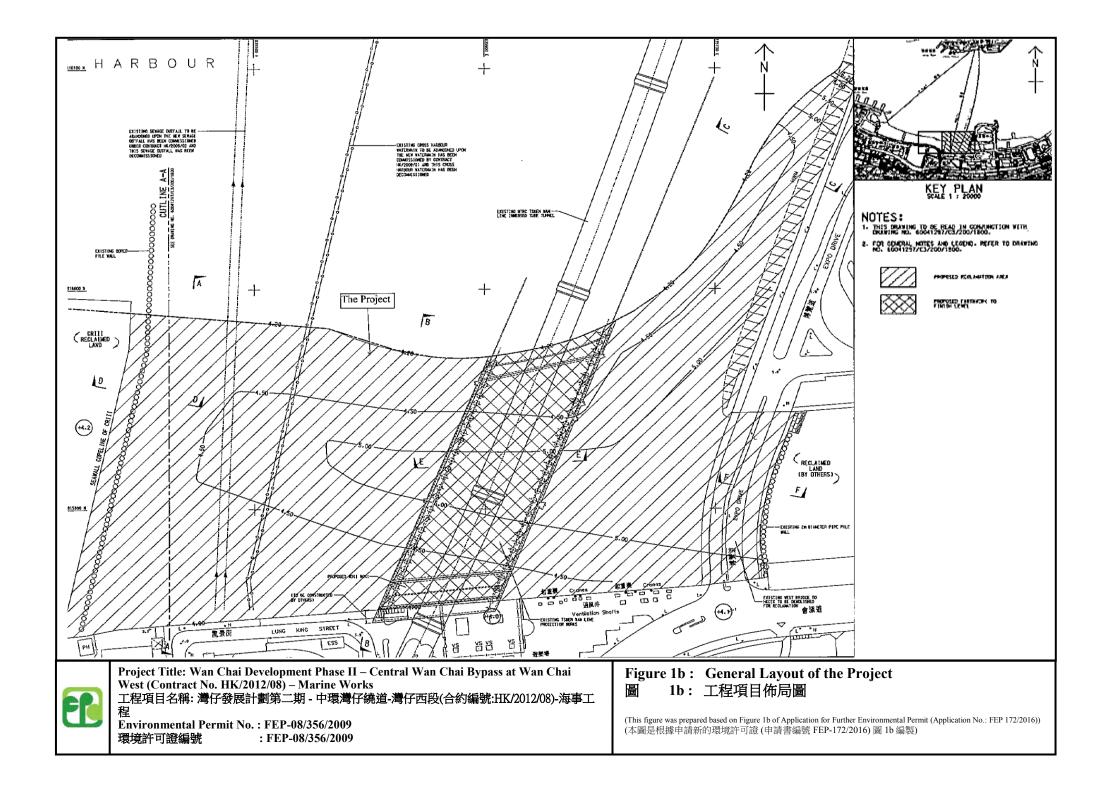
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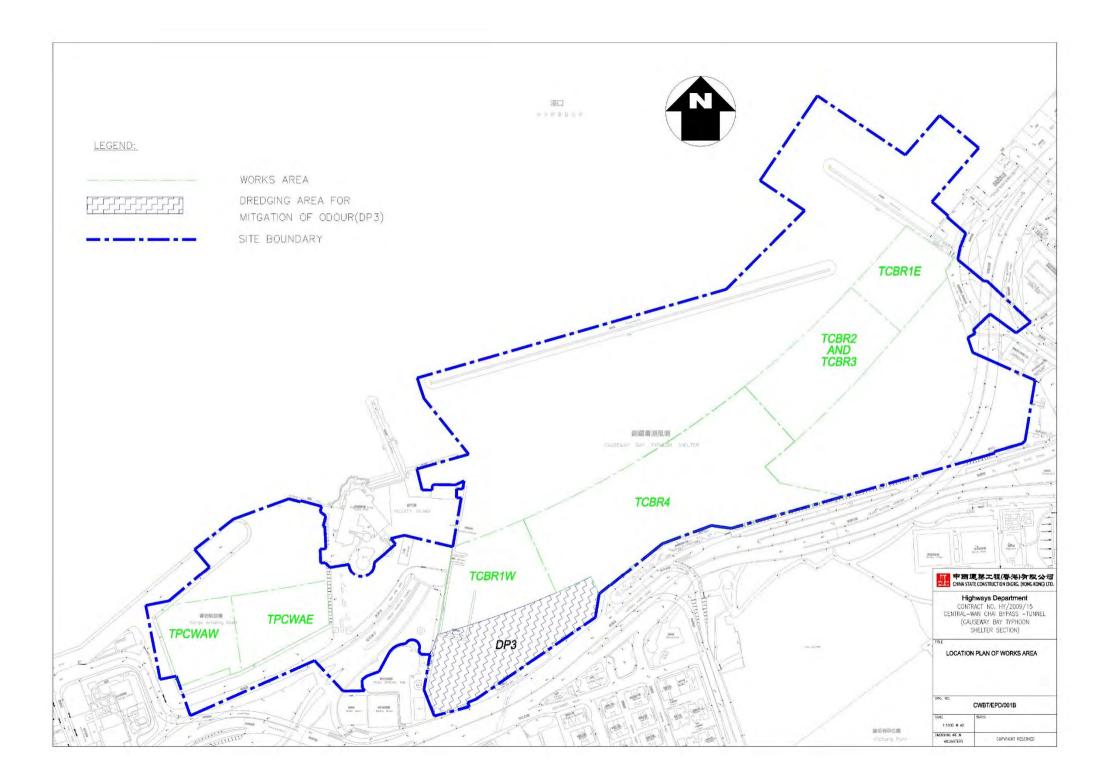






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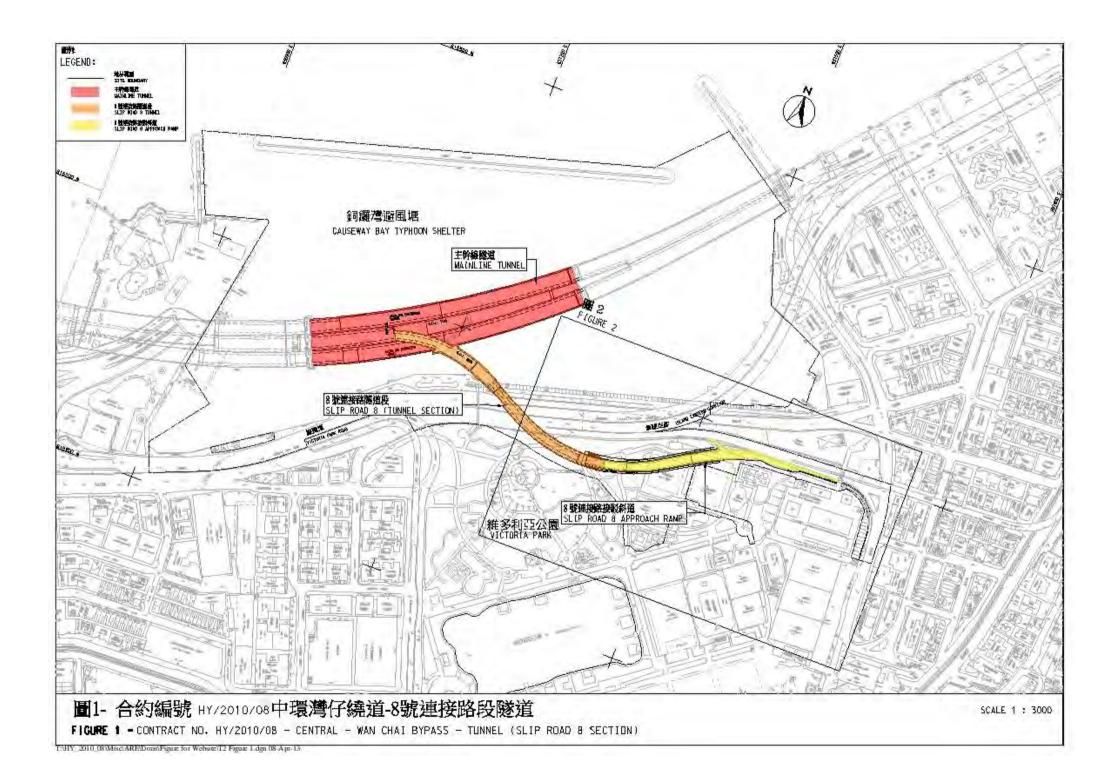




Figure 2.2

Project Organization Chart



Project Organization Chart

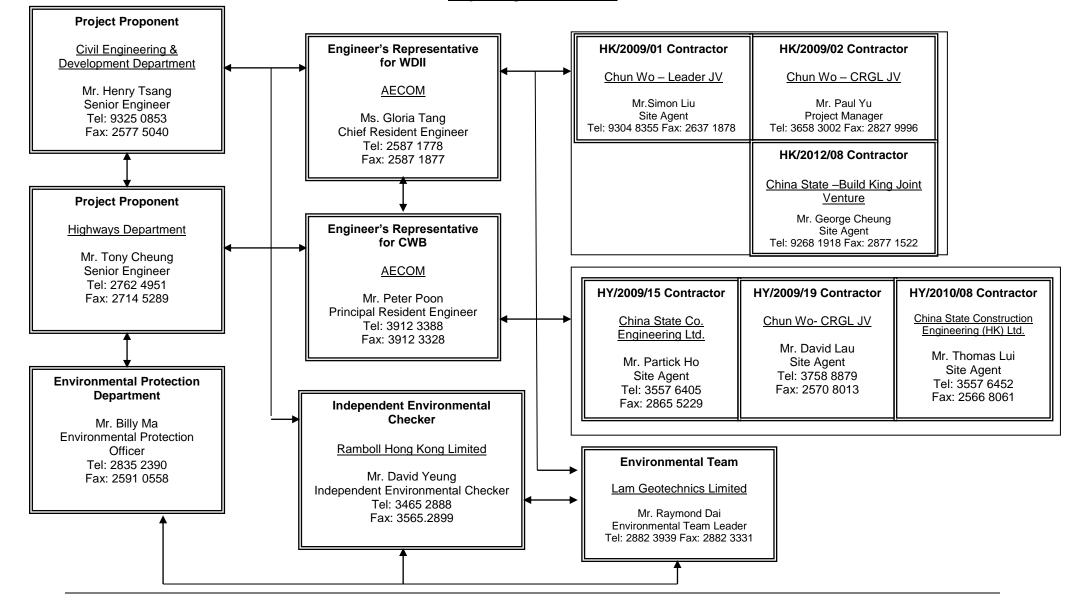
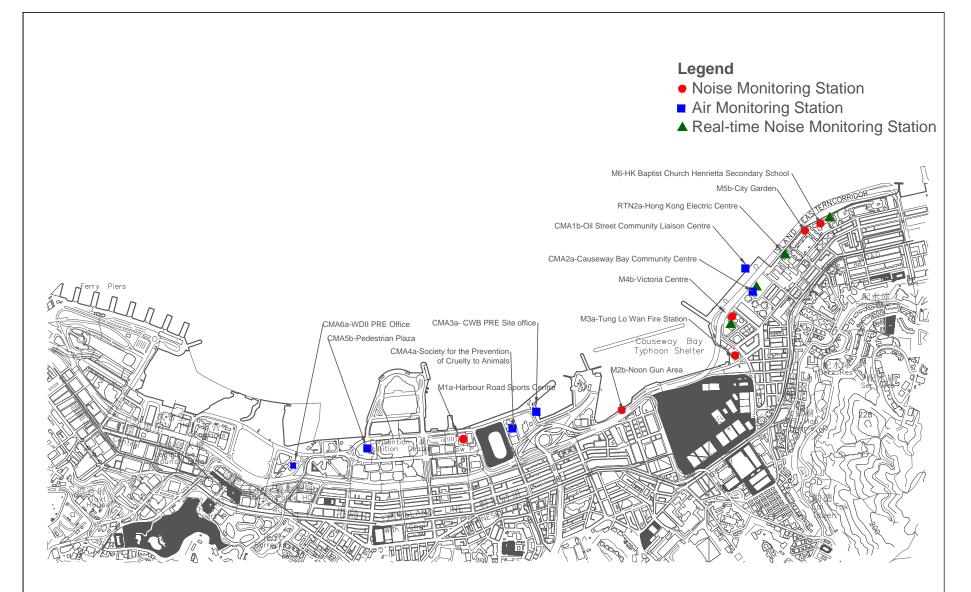




Figure 3.1

Locations of Monitoring Stations



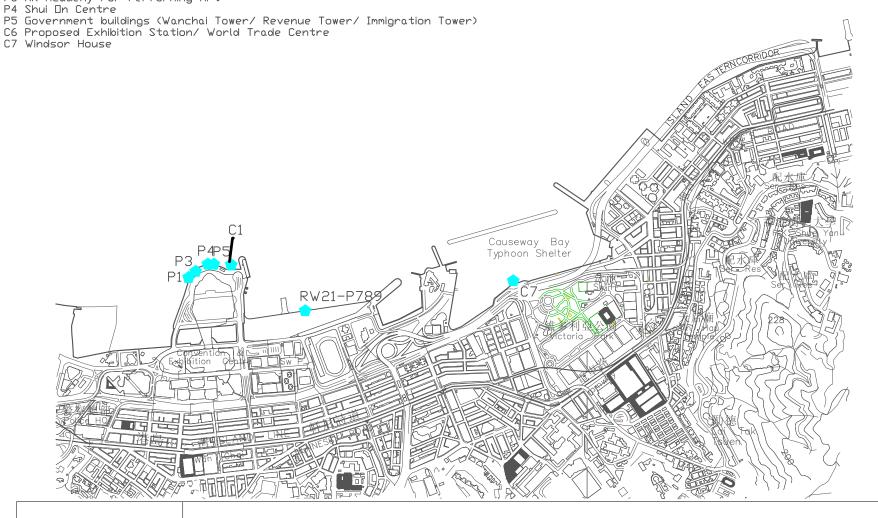
LOCATIONS OF AIR QUALITY AND NOISE MONITORING STATIONS



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

- C7 Windsor House

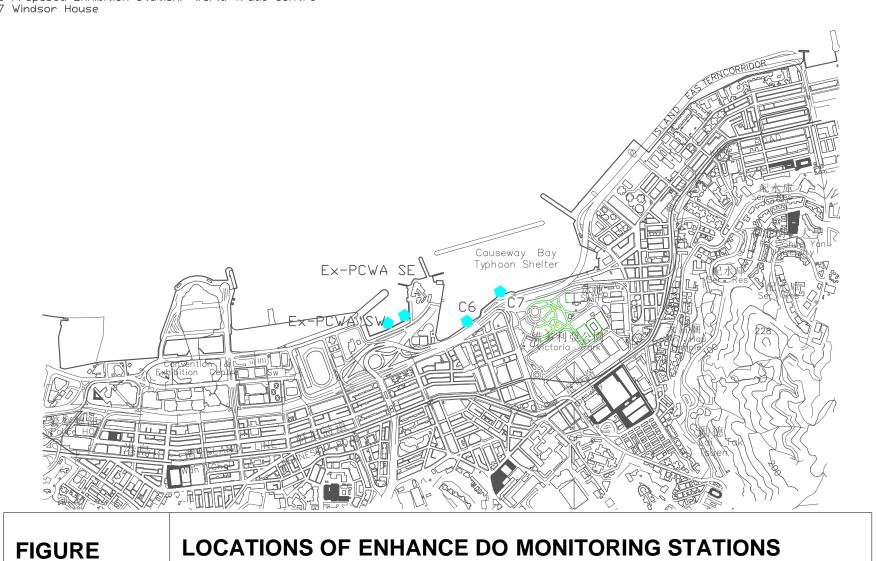
FIGURE

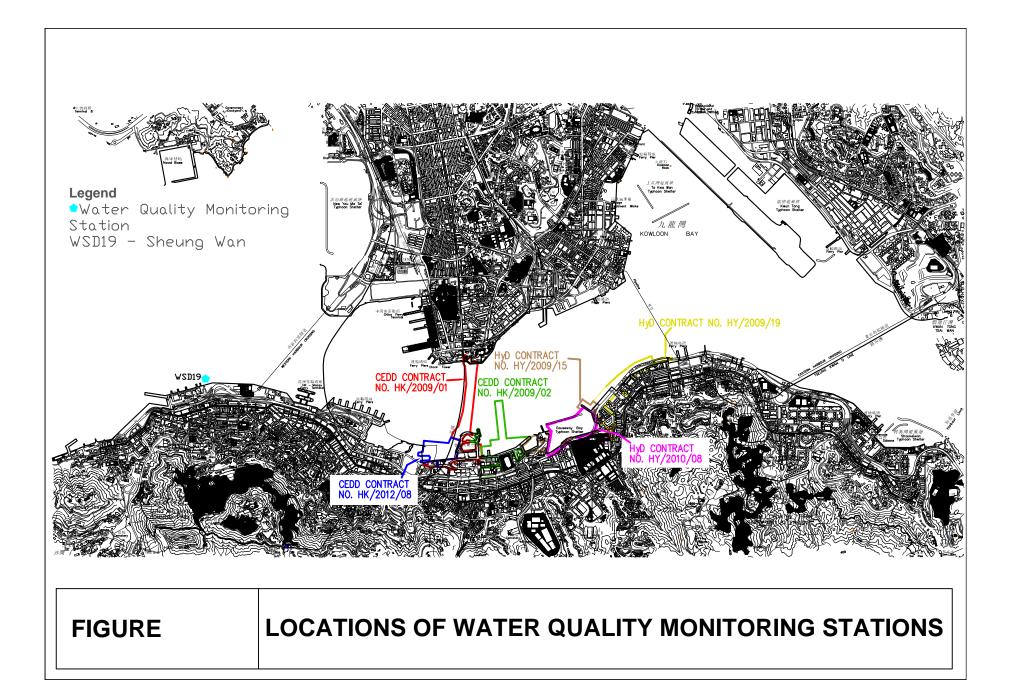


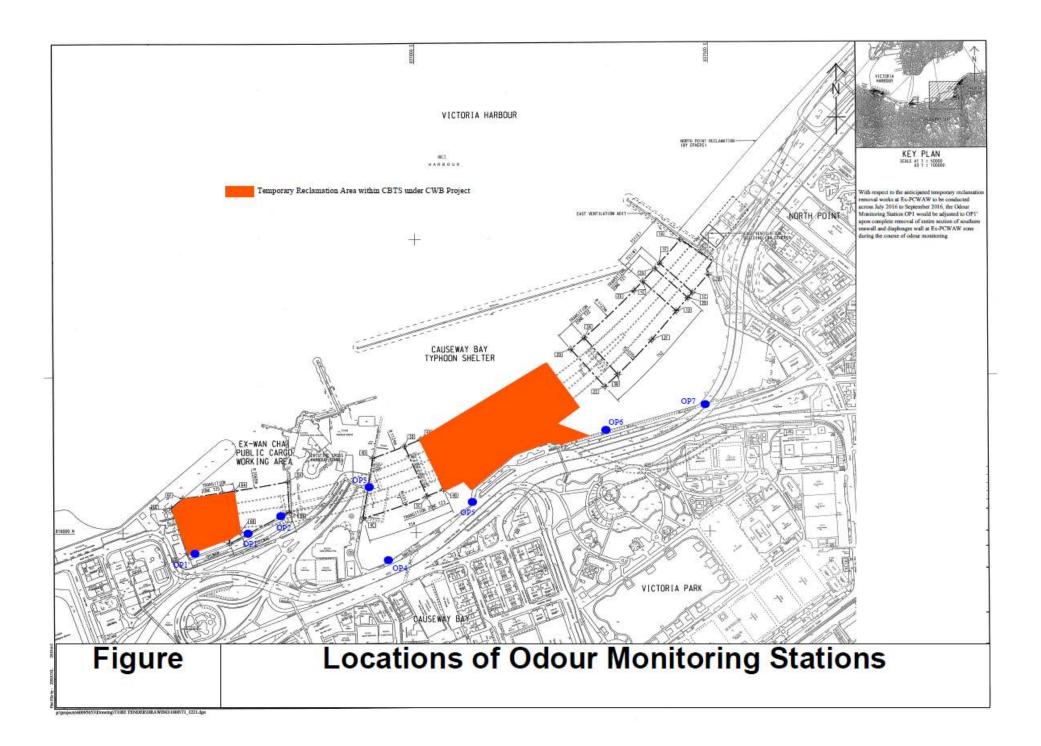
LOCATIONS OF WATER QUALITY MONITORING STATIONS

Legend

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









Appendix 2.1

Environmental Mitigation Implementation Schedule

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

Implementation	Schedule	for Air	Quality	Control
implementation	Scheume	IUI AII	Quanty	Control

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing Implementation				on	Relevant Legislation	
			Agent	Des	С	0	Dec	and Guidelines
Constructio								
For the Wh	<i>y</i>							1
\$3.6.5	Four times a day watering of the work site with active operations.	Work site / during construction	Contractor		V			EIAO-TM
S3.8.1	 Implementation of dust suppression measures stipulated in Air Pollution Control (Construction Dust) Regulation. The following mitigation measures, good site practices and a comprehensive dust monitoring and audit programme are recommended to minimise cumulative dust impacts. Strictly limit the truck speed on site to below 10 km per hour and water spraying to keep the haul roads in wet condition; Watering during excavation and material handling; Provision of vehicle wheel and body washing facilities at the exit points of the site, combined with cleaning of public roads where necessary; and Tarpaulin covering of all dusty vehicle loads transported to, from and between site locations. 	Work site / during construction	Contractor		V			

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Wan Chai Development Phase II and Central-Wanchai Bypass

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

Monthly EM&A Report

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	nplem Sta	entati ges*	on	Relevant Legislation
			Agent	Des	С	0	Dec	and Guidelines
\$3.5.6	For the dredging activities carried out in the vicinity of Police Officers' Club, the dredging operation will be restricted to only 1 small close grab dredger to minimise the odour impact during the dredging activity. The dredging rate should be reduced as much as practicable for the area in close proximity to the Police Officers' Club. The sediments contain highly contaminated mud which may be disposed with the use of geosynthetic containers (details shall refer to Section 6), grab dredger has to be used for filling up the geosynthetic containers on barges. the dredging rate for the removal of the sediments at the south-west corner of the typhoon shelter shall be slowed down or restricted to specific non-popular hours in weekdays when it is necessary during construction.	Corner of CBTS/implementation of harbour-front enhancement	CEDD <u>1</u>		~			EIAO-TM
S3.8.8	Carry out dredging at the corner of CBTS to remove the sediment and clean the slime attached on the CBTS shoreline seawall	Corner of CBTS & CBTS shoreline seawall/implementation of harbour-front enhancement	CEDD ²		V			EIAO-TM
Operation l			1	1	1			1

¹ CEDD will identify an implementation agent.

² CEDD will identify an implementation agent.

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Wan Chai Development Phase II and Central-Wanchai Bypass

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

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

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

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Wan Chai Development Phase II and Central-Wanchai Bypass

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

Monthly EM&A Report

Table A13.2 Implementation Schedule for Noise Control

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	In Des	nplem Staj	entati ges*	Relevant Legislation and Guidelines	
Construction					-		Dec	

Wan Chai Development Phase II and Central-Wanchai Bypass

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

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	nplem Sta	entati ges*	ion	Relevant Legislation
		Docution, Thing	Agent	Des	С	0	Dec	and Guidelines
S4.9.4	 Good Site Practice: Only well-maintained plant shall be operated on-site and plant shall be serviced regularly during the construction program. 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 	Work Sites / During Construction	Contractor		V			EIAO-TM, NCO
	 wherever possible, be orientated so that the horse is directed away from the nearby NSRs. Material stockpiles and other structures shall be effectively utilized, wherever practicable, in screening noise from onsite construction activities. 							

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Wan Chai Development Phase II and Central-Wanchai Bypass

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	nplem Sta	entati ges*	on	Relevant Legislation
			Agent	Des	С	0	Dec	and Guidelines
\$4.8.3 – \$4.8.5	 Use of quiet powered mechanical equipment, movable noise barrier and temporary noise barrier for the following tasks: Slip road 8 tunnel Construction of diaphragm wall and substructures of the tunnel approach ramp Excavation Construction of slabs Backfill Demolition and construction of substructures for the IEC Demolition works of existing piers and crossheads of the marine section of the existing IEC Use of PME grouping for the following tasks: At-grade road construction Substructure for IECL connection 	Work Sites / During Construction	Contractor		V			EIAO-TM, NCO
For DP2 –	WDII Major Roads (Road P2)							
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		V			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		V			EIAO-TM, NCO

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Wan Chai Development Phase II and Central-Wanchai Bypass

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

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

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Wan Chai Development Phase II and Central-Wanchai Bypass

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

 EIA Ref
 Environmental Protection Measures / Mitigation Measures
 Location / Timing
 Implementation Agent
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Contract no. HK/2015/01

Wan Chai Development Phase II and Central-Wanchai Bypass

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

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In		entati ges*	on	Relevant Legislation
		Location / Thing	Agent	Des	С	0	Dec	and Guidelines
\$4.8.14 - \$4.8.18	 For Existing NSRs about 235m length of noise semi-enclosure with transparent panel covering the westbound slip road from the IEC about 230m length of noise semi-enclosure with transparent panel covering the main carriageways (eastbound and westbound) of the CWB and IEC about 135m length of 5.5m high cantilevered noise barrier with 3m cantilever inclined at 45° with transparent panel on the eastbound slip road to the IEC about 95m length of 5.5m high cantilevered noise barrier with 1m cantilever inclined at 45° with transparent panel on the eastbound slip road to the IEC about 95m length of 3.5m high cantilevered noise barrier with 1m cantilever inclined at 45° with transparent panel on the eastbound slip road to the IEC about 350m length of 3.5m high vertical noise barrier with transparent panel on the eastbound slip road to the IEC about 350m length of 3.5m high vertical noise barrier with transparent panel on the eastbound slip road to the IEC low noise road surfacing for the trunk road (except tunnel section and beneath the landscaped deck at the eastern portal area) with speed limit of 70 km/hour For Future/Planned NSRs about 265m length of noise semi-enclosure with transparent panel covering the westbound slip road from the IEC 	Near North Point / Before commencement of operation of road project In between the Electric Centre (next to City Garden) and CDA(1) site / Before occupation of Planned NSRs in CDA and CDA(1) sites.	HyD	~	√ #			EIAO-TM

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

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

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

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

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

Monthly EM&A Report

Table A13.3 Implementation Schedule for Water Quality Control

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location /	Implementation	In		entatio ges*	on	Relevant Legislation
	Zin (il olimetrati i rotection i rotabili co / i ritigation riteadul co	Timing	Agent	Des	С	0	Dec	and Guidelines
Constructio	on Phase							
For DP3 – 1 Boundary)	Reclamation Works, DP5 (Wan Chai East Sewage Outfall), DP6 (Cross-Harbo	our Water Mains	from Wan Chai to T	Tsim Sh	a Tsu	i), DP.	1 – CW	B (within the Project
\$5.8	A phased reclamation approach is planned for the WDII. Containment of fill within each of the reclamation phases by seawalls is proposed, with the seawall constructed first (above high water mark) with filling carried out behind the completed seawalls. Any gaps that may need to be provided for marine access will be shielded by silt curtains to control sediment plume dispersion away from the site. Filling for seawall construction should be carried out behind the silt curtain	Work site / During the construction period	Contractor		\checkmark			EIAO-TM, WPCO
\$5.8	 Dredging shall be carried out by closed grab dredger for the following works: Seawall construction in all the reclamation areas; Construction of the CWB Tunnel Construction of the proposed WSD water mains; and Construction of the proposed Wan Chai East sewage outfall pipelines. 	Work site / During the construction period	Contractor		\checkmark			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		\checkmark			EIAO-TM, WPCO

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Wan Chai Development Phase II and Central-Wanchai Bypass

EIA Ref	Environmental Prote	ction Measures / N	litigation Me	easures		Location /	Implementation	In	nplem Sta	entati ges*	on	Relevant Legislation
						Timing	Agent	Des	С	0	Dec	and Guidelines
S5.8	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		V			EIAO-TM, WPCO
S5.8	As a mitigation measu within the temporar impermeable barrier,	ry embayment bet	Work site / During the construction	Contractor		√			EIAO-TM, WPCO			
	and extending down t the HKCEC1 comm discharge flows from contractor will main HKCEC2W are carried	to the seabed, will interces. The barr a Culvert L to the that the culvert L to the culvert the culvert the culvert culvert the culvert culver the culver culver the	be erected by ier will cha outside of the until the received	y the con annel the the emba reclamation	tractor before e stormwater ayment. The on works in	period						
\$5.8, Figure 5.3	The total dredging rate than the maximum pro- production rates witho		Work site / During the construction period	Contractor		V			EIAO-TM, WPCO			
	Reclamation Area $ \begin{array}{c c c c c c c c c c c c c c c c c c c $											
1	Dredging along seawall or											
	North Point Shoreline Zone	e (NPR) TBW		375 94	42,000 10,500							
	Causeway Bay Shoreline Zone	TCBR		375	42,000							
1	PCWA Zone	ICDIX		313	35,000							

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

Wan Chai Shoreline Zone (WCR) HKCEC Shoreline Zone HKCEC Shoreline Zone	0	n wicasui co	Environmental Protection Measures / Mitigation Measures				Stag	ges*	Relevant Legislation	
				Timing	Agent	Des	С	0	Dec	and Guidelines
HKCEC Shoreline Zone HKCEC Stage 1 & 3	6,000	375	42,000							
	1,500	94	10,500							
(HKCEC) HKCEC Stage 2	6,000	375	42,000							
Cross Harbour Water Mains	1,500	94	10,500							
Wan Chai East Submarine Sewage Pipeline	1,500	94	10,500							
Note: $1,500 \text{ m}^3$ per day shall be appli seawall of WCR1.	ed for c	onstruction	of the western							
1,500m ³ per day for construction of the proximity of the WSD intake), followed t western seawall (above high water mark	Work site / During the construction period	Contractor		V			EIAO-TM, WPCO			
partially constructed to protect the ner dredging activities. For example, at T seawalls shall be constructed first (abo seawater intakes at the inner water would	s from further rn and eastern k) so that the e impacts from	Work site / During the construction period	Contractor		V			EIAO-TM, WPCO		
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		V			EIAO-TM, WPCO
as stated below: Interim Construction Location of A. Stage Scenario 2A in early WSD saltwar 2009 with concurrent Bay, Sheung V	pplicatio r ter intake Van, Wan	ns es at Sai Wa Chai, Kowloo	an Ho, Quarry on South	Work site / During the construction period	Contractor		V			EIAO-TM, WPCO
	seawall of WCR1. Dredging along the seawall at WCR1 1,500m ³ per day for construction of the proximity of the WSD intake), followed to western seawall (above high water mark much as possible from further dredging a For dredging within the Causeway Bay partially constructed to protect the ner dredging activities. For example, at T seawalls shall be constructed first (abb seawater intakes at the inner water would the remaining dredging activities along the Silt curtains shall be deployed around seawall dredging and seawall trench fill TCBR and NP. Silt screens shall be applied to seawater in as stated below: Interim Construction Stage Scenario 2A in early 2009 with concurrent dredging activities at Cooling wate	Wan Chai East Submarine Sewage Pipeline 1,500 Note: 1,500 m ³ per day shall be applied for c seawall of WCR1. Dredging along the seawall at WCR1 shall l 1,500m ³ per day for construction of the western proximity of the WSD intake), followed by partial western seawall (above high water mark) to prot much as possible from further dredging activities. For dredging within the Causeway Bay typhoot partially constructed to protect the nearby seaw dredging activities. For example, at TCBR1W, seawalls shall be constructed first (above high seawater intakes at the inner water would be prote the remaining dredging activities along the northe Silt curtains shall be deployed around the closeawall dredging and seawall trench filling in th TCBR and NP. Silt screens shall be applied to seawater intakes at as stated below: Interim Construction Interim Construction Location of Application Stage Scenario 2A in early 2009 with concurrent draging activities at Cooling water intakes Sole sate intakes	Wan Chai East Submarine Sewage Pipeline 1,500 94 Note: 1,500 minimity 94 Note: 1,500 minimity 94 Note: 1,500 minimity 94 Dredging along the seawall at WCR1 shall be undertak 1,500m ³ per day for construction of the western seawall (wh proximity of the WSD intake), followed by partial seawall con western seawall (above high water mark) to protect the adja much as possible from further dredging activities. For dredging within the Causeway Bay typhoon shelter, se partially constructed to protect the nearby seawater intake dredging activities. For example, at TCBR1W, the southe seawalls shall be constructed first (above high water mar seawater intakes at the inner water would be protected from th the remaining dredging activities along the northern boundary Silt curtains shall be deployed around the closed grab di seawall dredging and seawall trench filling in the areas of H TCBR and NP. Silt screens shall be applied to seawater intakes at interim consastated below: Interim Construction Location of Applications Stage Scenario 2A in early WSD saltwater intakes at Sai Wa 2009 with concurrent dredging activities at Cooling water intakes for Hong Kod Cooling water intakes for Hong Kod	Wan Chai East Submarine Sewage Pipeline 1,500 94 10,500 Note: 1,500 m³ per day shall be applied for construction of the western seawall of WCR1. Dredging along the seawall at WCR1 shall be undertaken initially at 1,500m³ 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. For dredging within the Causeway Bay typhono 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. 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. Silt screens shall be applied to seawater intakes at interim construction stages as stated below: Interim Construction Location of Applications Stage Scenario 2A in early WSD saltwater intakes at Sai Wan Ho, Quarry Bay, Sheung Wan, Wan Chai, Kowloon South Crobing water intakes for Hong Kong Convention	Wan Chai East Submarine Sewage Pipeline 1,500 94 10,500 Note: 1,500 m³ per day shall be applied for construction of the western seawall of WCR1. Work site / Dredging along the seawall at WCR1 shall be undertaken initially at 1,500 m³ 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 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 seawall 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 and seawall trench filling in the areas of HKCEC, WCR, TCBR and NP. Work site / During the construction stages as stated below: Interim Construction Stage Silt screens shall be applied to seawater intakes at interim construction stages as stated below: Work site / MSD saltwater intakes at Sai Wan Ho, Quarry Bay, Sheung Wan, Wan Chai, Kowloon South Cooling water intakes for Hong Kong Convention Work site /	Wan Chai East Submarine Sewage Pipeline1,5009410,500Note: 1,500 m³ per day shall be applied for construction of the western seawall of WCR1.Work site / During the construction 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 and partially constructed to protect the nearby seawater intakes form further dredging activities.Work site / During the construction periodContractorFor dredging within the Causeway Bay typhoon shelter, seawall shall be artially constructed to protect the nearby seawater intakes from further dredging activities. For example, at TCBR1W, the southern and eastern seawatel 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 periodSilt 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 seawater intakes at interim construction stages as stated below:Contractor During the construction periodSilt screens shall be applied to seawater intakes at interim construction stages ow stated below:WSD saltwater intakes at Sai Wan Ho, Quarry Bay, Sheung Wan, Wan Chai, Kowloon SouthWork site / During the construction period	Wan Chai East Submarine Sewage Pipeline 1,500 94 10,500 Note: 1,500 m³ per day shall be applied for construction of the western seawall of WCR1. Work site / During the 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 For dredging within the Causeway Bay typhoon shelter, seawall shall be partially 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 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 stages as stated below: Silt screens shall be applied to seawater intakes at interim construction stage as stated below: Location of Applications Work site / During the construction period Silt screens shall be applied to seawater intakes at Sai Wan Ho, Quarry 2009 with concurrent days, Sheung Wan, Wan Chai, Kowloon South Cooling water intakes for Hong Kong Convention Work site / During the construction period	Wan Chai East Submarine Sewage Pipeline 1.500 94 10.500 Note: 1,500 m³ per day shall be applied for construction of the western seawall of WCR1. Work site / Contractor Dredging along the seawall at WCR1 shall be undertaken initially at 1,500 m³ 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 / Contractor √ 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 TCBRIW, the southern and eastern seawall dredging activities along the northern boundary. Work site / Contractor √ 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 √ Silt screens shall be applied to seawater intakes at interim construction stages as stated below: Location of Applications Work site / During the construction period Contractor √ Silt screens shall be applied to seawater intakes at Sai Wan Ho, Quarry 2009 with concurrent dredging activities at Chai, Kowloon South Cooling water intakes for Hong Kong Convention Work site / Contractor √ <td>Wan Chai East Submarine Sewage Pipeline 1,500 94 10,500 Note: 1,500 m³ per day shall be applied for construction of the western seawall of WCR1. Work site / Contractor √ Dredging along the seawall at WCR1 shall be undertaken initially at 1,500 m³ per day for construction of the western seawall (which is in close proximity of the WSD intake), followed by partial seawall construction intakes as much as possible from further dredging activities. Work site / During the construction period For dredging within the Causeway Bay typhon shelter, seawall shall be dredging activities. For example, at TCBRIW, the southern and eastern seawall 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. Contractor √ Silt curtains shall be deployed around the closed grab dredgers during seawall trench filling in the areas of HKCEC, WCR, TCBR and NP. Work site / During the construction stages as taited below: Interim Construction Location of Applications Work site / During the construction period Ouring the construction period Sitt screens shall be applied to seawater intakes at interim construction stages as stated below: Mork site / Contractor √ Interim Construction Location of Applications Bay, Sheung Wan, Wan Chai, Kowloon South dredging activities at Contractor Contractor</td> <td>Wan Chai East Submarine Sewage Pipeline 1,500 94 10,500 Note: 1,500 m³ per day shall be applied for construction of the western seawall of WCR1. Work site / During the 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. For example, at TCBR1W, the southern and eastern seawall shall be constructed first (above high water mark) so that the seawall interes at the inpacts from the remaining dredging activities along the northern boundary. Work site / Contractor √ 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 / Contractor √ Silt screens shall be applied to seawater intakes at a interim construction stages asted below: Location of Applications Work site / Contractor √ Interim Construction graph with concurrent of drage activities at the entakes at the intakes at the intakes at 5ai Wan Ho, Quarry 2009 with concurrent of X, Sheung Wan, Wan Chai, Kowloon South Cooling water intakes for Hong Kong Convention Work site / Contractor √</td>	Wan Chai East Submarine Sewage Pipeline 1,500 94 10,500 Note: 1,500 m³ per day shall be applied for construction of the western seawall of WCR1. Work site / Contractor √ Dredging along the seawall at WCR1 shall be undertaken initially at 1,500 m³ per day for construction of the western seawall (which is in close proximity of the WSD intake), followed by partial seawall construction intakes as much as possible from further dredging activities. Work site / During the construction period For dredging within the Causeway Bay typhon shelter, seawall shall be dredging activities. For example, at TCBRIW, the southern and eastern seawall 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. Contractor √ Silt curtains shall be deployed around the closed grab dredgers during seawall trench filling in the areas of HKCEC, WCR, TCBR and NP. Work site / During the construction stages as taited below: Interim Construction Location of Applications Work site / During the construction period Ouring the construction period Sitt screens shall be applied to seawater intakes at interim construction stages as stated below: Mork site / Contractor √ Interim Construction Location of Applications Bay, Sheung Wan, Wan Chai, Kowloon South dredging activities at Contractor Contractor	Wan Chai East Submarine Sewage Pipeline 1,500 94 10,500 Note: 1,500 m³ per day shall be applied for construction of the western seawall of WCR1. Work site / During the 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. For example, at TCBR1W, the southern and eastern seawall shall be constructed first (above high water mark) so that the seawall interes at the inpacts from the remaining dredging activities along the northern boundary. Work site / Contractor √ 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 / Contractor √ Silt screens shall be applied to seawater intakes at a interim construction stages asted below: Location of Applications Work site / Contractor √ Interim Construction graph with concurrent of drage activities at the entakes at the intakes at the intakes at 5ai Wan Ho, Quarry 2009 with concurrent of X, Sheung Wan, Wan Chai, Kowloon South Cooling water intakes for Hong Kong Convention Work site / Contractor √

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EIA Ref	Environmental Protection Measures / Mitigation Measures		Location /	Implementation	In		entati ges*	on	Relevant Legislation
			Timing	Agent	Des	С	0	Dec	and Guidelines
	TBW, NP and Water Mains Zone	Convention and Exhibition Centre Phase I, Telecom House / HK Academy for Performing Arts / Shun On Centre, Wan Chai Tower / Revenue Tower / Immigration Tower and Sun Hung Kai Centre							
	Scenario 2B in late 2009/2010 with concurrent dredging activities at Sewage Pipelines Zone and TCBR.	WSD saltwater intakes at Sheung Wan, Wan Chai Cooling water intakes for Queensway Government Offices, Excelsior Hotel, World Trade Centre and Windsor House.							
	Scenario 2C in 2011 with concurrent dredging activities at HKCEC and TCBR.	WSD saltwater intakes at Sheung Wan and Reprovisioned WSD Wan Chai saltwater intake. Cooling water intakes for MTR South, Excelsior Hotel & World Trade Centre and reprovisioned Windsor House.							
\$5.8	spillage and sealed ti	include: used, shall be designed and maintained to avoid ghtly while being lifted. For dredging of any sed watertight grabs must be used;	Work site / During the construction period	Contractor		V			ProPECC PN 1/94; WPCO (TM-DSS)
	vessels and the seabe	d so that adequate clearance is maintained between d in all tide conditions, to ensure that undue rated by turbulence from vessel movement or							
		dredgers shall be fitted with tight fitting seals to o prevent leakage of material;							
		shall not cause foam, oil, grease, scum, litter or tter to be present on the water within the site or							
	dredged material into the	noppers shall be controlled to prevent splashing of ne surrounding water. Barges or hoppers shall not t will cause the overflow of materials or polluted transportation; and							

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

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

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

Wan Chai Development Phase II and Central-Wanchai Bypass

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

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

³ CEDD will identify an implementation agent.

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

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

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

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location /	Implementation	In		entati ges*	on	Relevant Legislation and Guidelines
		Timing	Agent	Des	С	0	Dec	and Guidelines
S5.8	Storm Water Discharges Minimum distances of 100 m shall be maintained between the existing or planned stormwater discharges and the existing or planned WSD flushing water intakes.	Work site and adjacent water / During the design and construction period.	Contractor	V	V			WPCO
Operation	Phase							
	B (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. 	CWB/During design and operational period	HyD/TD ³	V		V		WPCO
	 Petrol interceptors shall be regularly cleaned and maintained in good working condition. 							
	Oily contents of the petrol interceptors shall be properly handled and disposed of, in compliance with the requirements of the Waste Disposal Ordinance.							
	• Sewage arising from ancillary facilities of CWB (for examples, car park,							

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

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

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

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

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

Table A13.4 Implementation Schedule for Waste Management

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Ir	nplem Sta	entati ges*	on	Relevant Legislation
	Zarra omnenna i rotection ricultures / ringation ricultures	Location / Timing	Agent	Des	С	0	Dec	and Guidelines
Construction	on Phase							
For DP3 –	Reclamation Works							
	Marine Sediments	Work site / During the construction period	Contractor		V			ETWB TCW No. 34/2002
S6.7.2	The dredged marine sediments would be loaded onto barges, transported to and disposed of at the designated disposal sites at South of Cheung Chau, East of Ninepin, East of Tung Lung Chau, South of Tsing Yi or East of Sha Chau to be allocated by the MFC depending on their level of contamination or at other disposal sites after consultation with the MFC and EPD. In accordance with the ETWB TCW No. 34/2002, the contaminated material must be dredged and transported with great care. The mitigation measures recommended in Section 5 of the EIA Report shall be incorporated. The dredged contaminated sediment must be effectively isolated from the environment upon final disposal and shall be disposed of at the Type 2 confined marine disposal contaminated mud pit.							
\$6.7.3	Based on the biological screening results, the Category H (>10xLCEL) sediment which failed the biological testing would require Type 3 special disposal. The volume of Category H sediment from the Causeway Bay typhoon shelter which would require special disposal arrangements is estimated to be approximately 0.05 Mm ³ . A feasible containment method is proposed whereby the dredged sediments are sealed in geosynthetic containers and, at the disposal site, the containers would be dropped into the designated contaminated mud pit where they would be covered by further mud disposal and later by the mud pit capping, thereby meeting the requirements for fully confined mud disposal.							

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

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	In	nplem Stag	entati ges*	on	Relevant Legislation
				Des	С	0	Dec	and Guidelines
\$6.7.5	It will be the responsibility of the Contractor to satisfy the appropriate authorities that the contamination levels of the marine sediment to be dredged have been analysed and recorded. According to the ETWB TCW No. 34/2002, this will involve the submission of a formal Sediment Quality Report to the DEP, at least 3 months prior to the dredging contract being tendered							
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. 							

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

For the Whole Project

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

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

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

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In		entati ges*	ion	Relevant Legislation
2007 1007	Zarra olimentari i roteculori ricabar es / ricagariori ricabar es	Liocution / Timing	Agent	Des	С	0	Dec	and Guidelines
\$6.7.8	 Waste Reduction Measures Waste reduction is best achieved at the planning and design stage, as well as by ensuring the implementation of good site practices. Recommendations to achieve waste reduction include: segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal; 	Work site / During planning and design stage, and construction stage	Contractor	V	V			
	 to encourage collection of aluminium cans, PET bottles and paper, separate labelled bins shall be provided to segregate these wastes from other general refuse generated by the work force; 							
	• any unused chemicals or those with remaining functional capacity shall be recycled;							
	 use of reusable non-timber formwork, such as in casting the tunnel box sections, to reduce the amount of C&D material. 							
	 prior to disposal of C&D waste, it is recommended that wood, steel and other metals shall be separated for re-use and / or recycling to minimise the quantity of waste to be disposed of to landfill; 							
	• proper storage and site practices to minimise the potential for damage or contamination of construction materials; and							
	 plan and stock construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste. 							

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

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	nplem Sta	entati ges*	on	Relevant Legislation
LIII KU	Environmental Protection Measures / Mitagation Measures	Location / Thing	Agent	Des	С	0	Dec	and Guidelines
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		V			ETWB TCW No. 31/2004
\$6.7.14	 Bentonite Slurry The disposal of residual used bentonite slurry shall follow the good practice guidelines stated in ProPECC PN 1/94 "Construction Site Drainage" and listed as follows: If the disposal of a certain residual quantity cannot be avoided, the used slurry may be disposed of at the marine spoil grounds subject to obtaining a marine dumping licence from EPD on a case-by-case basis. If the used bentonite slurry is intended to be disposed of through the public drainage system, it shall be treated to 	Work site / During the construction period	Contractor		V			ProPECC PN 1/94
	 the respective effluent standards applicable to foul severs, storm drains or the receiving waters as set out in the Technical Memorandum of Standards for Effluents Discharged into Drainage and Sewerage Systems, Inland and Coastal Waters. If the used bentonite slurry is intended to be disposed to public fill reception facilities, it will be mixed with dry soil on site before disposal. 							

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

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Table A13.5 Implementation Schedule for Land Contamination

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

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

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

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation
Linku				Des	С	0	Dec	and Guidelines
	<u>Water Quality Mitigation Measures</u>							
	 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

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Wan Chai Development Phase II and Central-Wanchai Bypass

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

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Table A13.6 Implementation Schedule for Marine Ecology

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

Wan Chai Development Phase II and Central-Wanchai Bypass

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

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

Appendix 3.1

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Wan Chai Development Phase II and Central-Wanchai Bypass

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

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Implementation Stages*				Relevant Legislation
			Agent	Des	С	0	Dec	and Guidelines
S.9.7.6	 To minimize potential disturbance impacts on the foraging ardeid population in the CBTS, particularly in the area near the A King Shipyard, appropriate mitigation measures shall be adopted particularly during the construction phase. The following measures are recommended: Use of Quiet Mechanical Plant during the construction phase shall be adopted wherever possible. Adoption of multiple-phase construction schedule. General measures to reduce noise generated during the construction phase (see noise impact assessment) shall be effectively implemented. 	Work site / during construction phase	Contractor		V			EIAO TM Annex 16 (Section 8.4) & EIAO Guidance Note No. 3/2002.
S.9.7.7	Seawalls shall be constructed in advance around the reclamation areas within the area of the CBTS to screen adjacent feeding ground from construction phase activities, reduce noise disturbance to the associated seabirds and also to restrict access to this habitat adjacent to works areas by ship traffic.	Work site / during construction phase	Contractor		V			EIAO TM Annex 16 (Section 8.4) & EIAO Guidance Note No. 3/2002.
S.9.7.8	Loss of artificial seawall habitats shall be reinstated by the construction of about 1 km vertical wave absorbing seawall along the coastlines of the new reclamation around the HKCEC and at North Point. The new seawalls are expected to provide large area of hard substrata for settlement and recruitment of intertidal fauna similar to those previously recorded from existing intertidal habitats.	Work site / during construction phase	Contractor		V			EIAO TM Annex 16 (Section 8.4) & EIAO Guidance Note No. 3/2002.

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

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

Table A13.7 Implementation Schedule for Landscape and Visual

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

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Wan Chai Development Phase II and Central-Wanchai Bypass

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

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

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

Monthly EM&A Report

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

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Wan Chai Development Phase II and Central-Wanchai Bypass

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

EIA Ref Environmental Protection Measures / Mitigation Measures Location / Timing Implementation Implementation **Relevant Legislation** Stages* and Guidelines Agent Des С 0 Dec Table 10.6. OM3 Buffer Tree and Shrub Planting to screen proposed roads Work site / During CEDD/HyD/ ETWB TCW 2/2004 ٦l 1 Figure 10.5.1and associated structures. Design Stage and 10.5.5 Operation Phases Table 10.6, Figure 10.5.1-Work site / During ETWB TCW 2/2004 OM4 Aesthetic design of proposed waterfront promenade. $CEDD^4$ $\sqrt{}$ V $\sqrt{}$ Design Stage and 10.5.5 Operation Phases ETWB TCW 2/2004 Table 10.6, OM5 Aesthetic streetscape design. Work site / During CEDD/HyD $\sqrt{}$ V $\sqrt{}$ Figure 10.5.1-Design Stage and 10 5 5 Operation Phases Table 10.6, Aesthetic design of roadside amenity areas. CEDD/HyD ETWB TCW 2/2004 OM6 Work site / During $\sqrt{}$ V $\sqrt{}$ Figure 10.5.1-Design Stage and 10.5.5 Operation Phases For DP1 – CWB (Within the Project Boundary) ETWB TCW 2/2004 Table 10.6. OM1 Aesthetic design of buildings and road-related structures, Work site / During HyD $\sqrt{}$ V $\sqrt{}$ Figure 10.5.1including viaducts, vent buildings, subways, footbridges Design Stage and 10.5.5 and noise barriers and enclosure Operation Phases ETWB TCW 2/2004 Table 10.6. OM2 Shrub and Climbing Plants to soften proposed structures Work site / During HyD $\sqrt{}$ $\sqrt{}$ $\sqrt{}$ Figure 10.5.1 Design Stage and 10.5.5 Operation Phases Buffer Tree and Shrub Planting to screen proposed roads ETWB TCW 2/2004 Table 10.6. OM3 HyD Work site / During $\sqrt{}$ V $\sqrt{}$ Figure 10.5.1-10.5.5 and associated structures. Design Stage and Operation Phases OM5 ETWB TCW 2/2004 HyD Table 10.6 Aesthetic streetscape design. Work site / During V V $\sqrt{}$ Figure 10.5.1 Design Stage and 10.5.5 **Operation Phases** ETWB TCW 2/2004 Table 10.6. OM6 Aesthetic design of roadside amenity areas. Work site / During HyD $\sqrt{}$ $\sqrt{}$ $\sqrt{}$ Figure 10.5.1-Design Stage and Operation Phases 10.5.5 For DP2 - WDII Major Roads (Road P2)

⁴ CEDD will identify an implementation agent

Wan Chai Development Phase II and Central-Wanchai Bypass

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

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

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

 5 CEDD will identify an implementation agent

Appendix 3.1



Appendix 3.1

Action and Limit Level



Lam Geotechnics Limited

Action and Limit Level

Action and Limit Level for Noise Monitoring

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

Note 1:

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

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

Action and Limit Level for Air Quality Monitoring

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

Action and Limit Level for Water Quality Monitoring

Parameters	Dry S	eason	Wet S	eason
Parameters	Action	Limit	Action	Limit
WSD Salt Water Int	ake			
SS in mg L ⁻¹	13.00	14.43	16.26	19.74
Turbidity in NTU	8.04	8.04 9.49 10		11.54
DO in mg/L	3.66	3.28	3.17	2.63
Cooling Water Intal	(e			
SS in mg L ⁻¹	15.00	22.13	18.42	27.54
Turbidity in NTU	9.10	10.25	11.35	12.71
DO in mg/L	3.36	2.73	3.02	2.44

Remarks:

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

Action and Limit Level for Enhance DO Monitoring

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

Action and Limit Levels for Odour Patrol

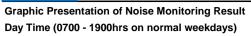
Parameters	Action	Limit
Odour Nuisance (from odour intensity analysis or odour patrol)	 When two documented complaint are received; or Odour Intensity of 2 is measured from odour intensity analysis. 	 Five or more consecutive genuine documented complaints within a week; or Odour Intensity of 3 or above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

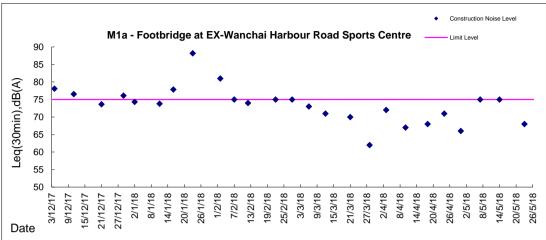


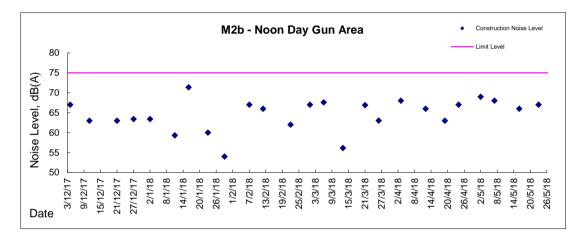
Appendix 4.1

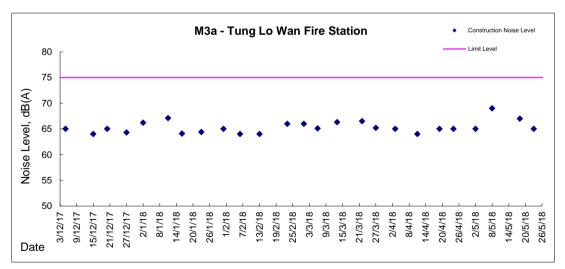
Noise Monitoring Graphical Presentations







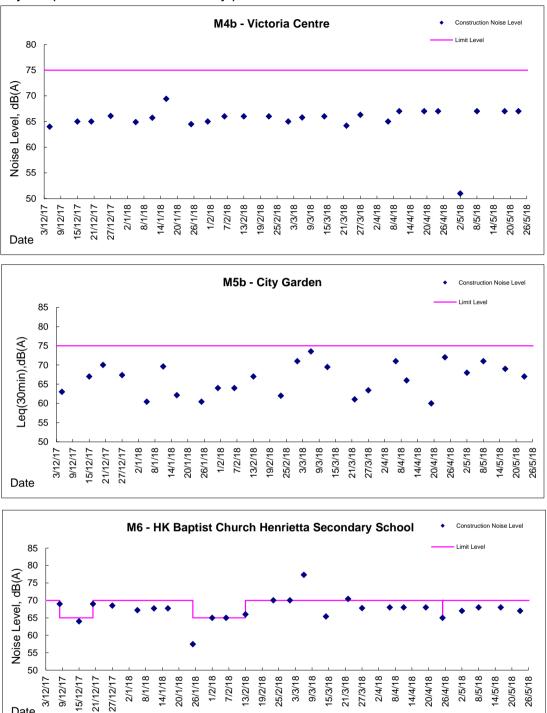






Date

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

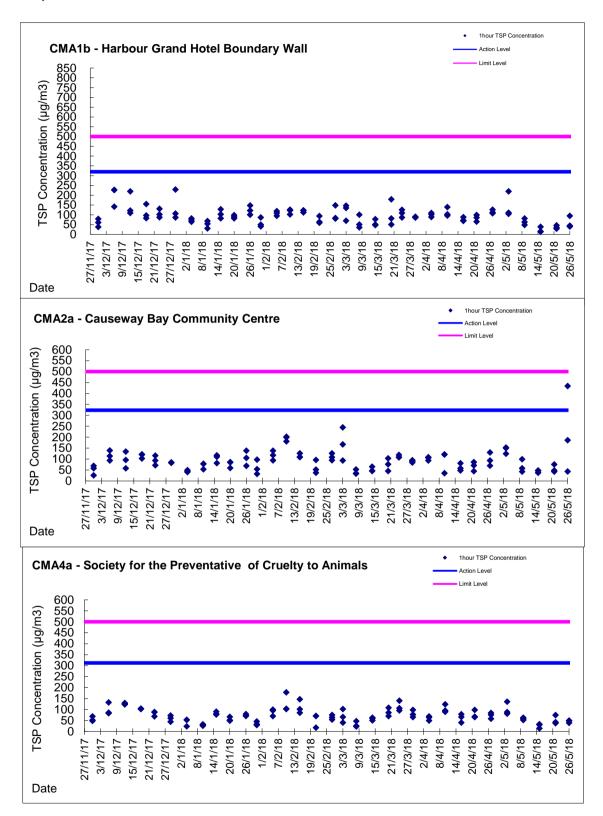




Appendix 4.2 Air Quality Monitoring Graphical Presentations

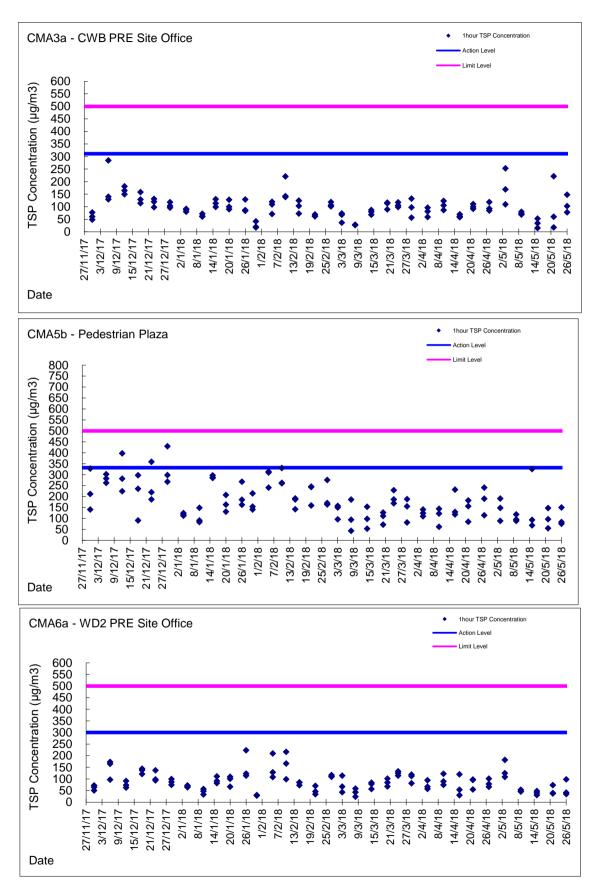


Graphic Presentation of 1 hour TSP Result



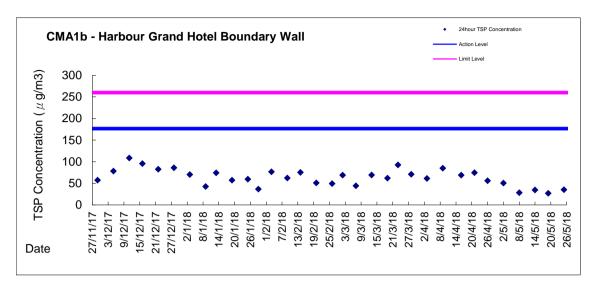


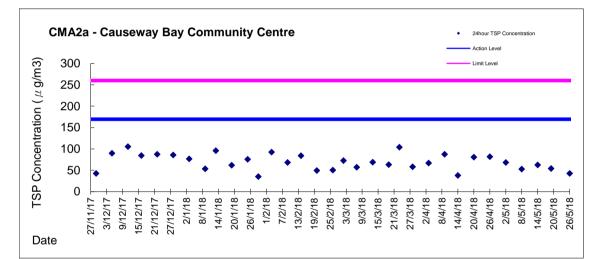
Graphic Presentation of 1 hour TSP Result

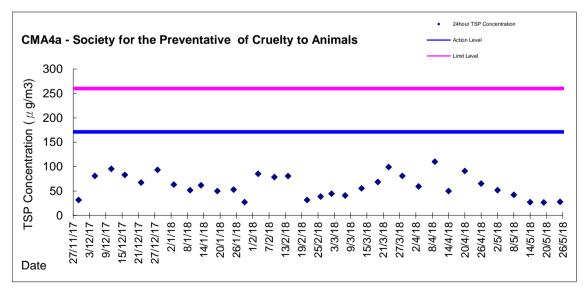




Graphic Presentation of 24 hour TSP Result

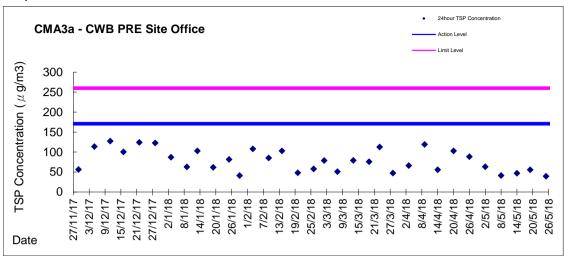


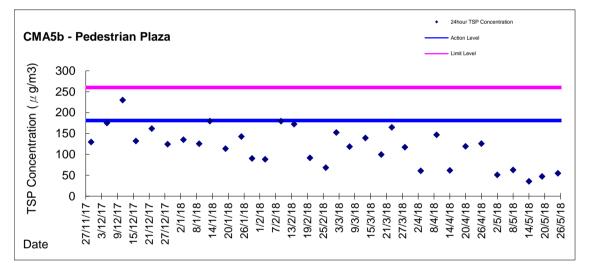


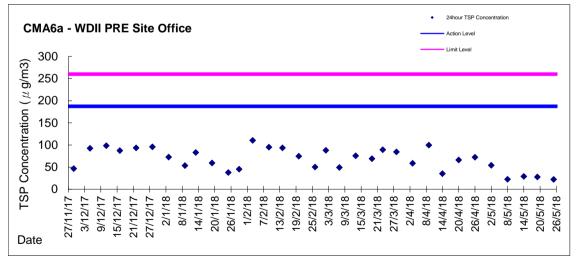




Graphic Presentation of 24 hour TSP Result







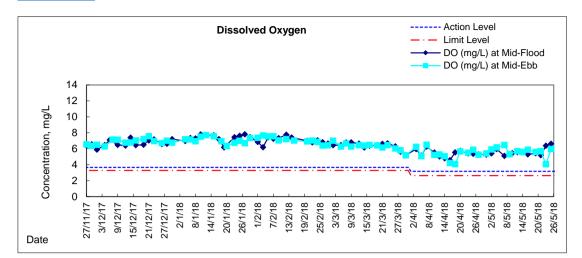


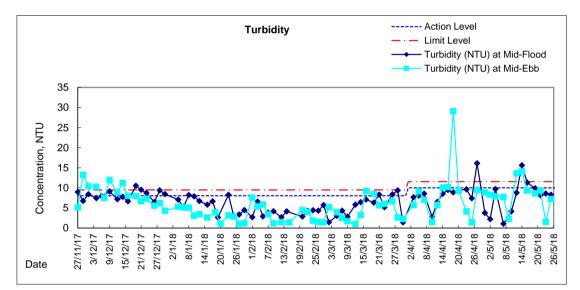
Appendix 4.3

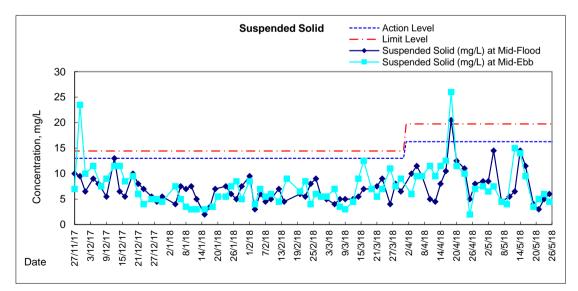
Water Quality Monitoring Graphical Presentations

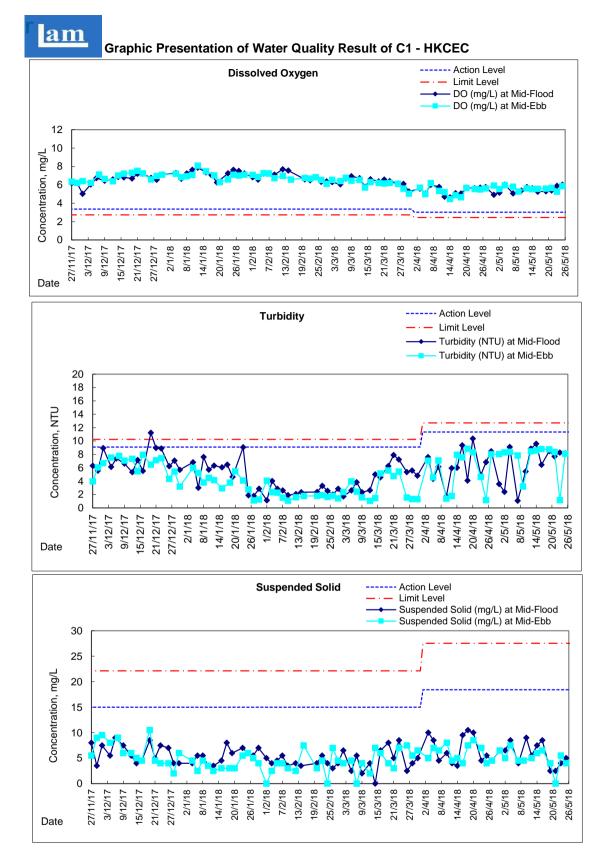
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Graphic Presentation of Water Quality Result of WSD19 - Sheung Wan



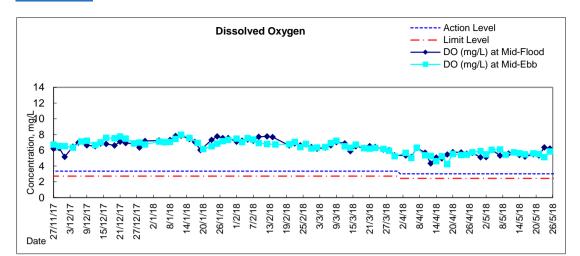


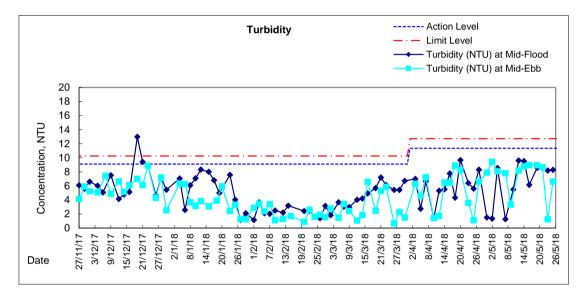


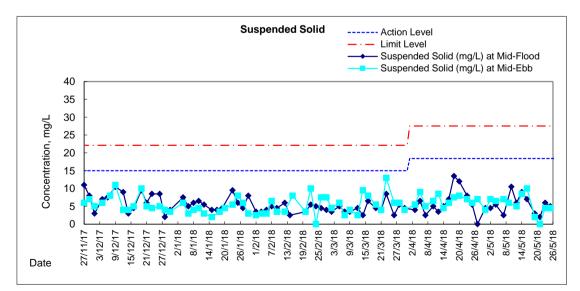




Graphic Presentation of Water Quality Result of P1 - HKCEC Phase I

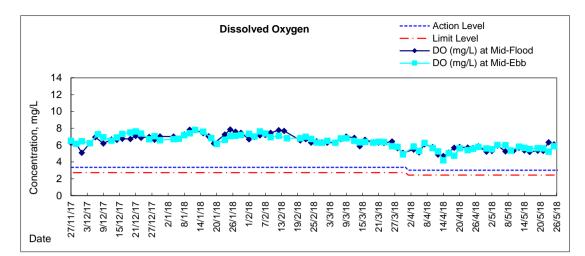


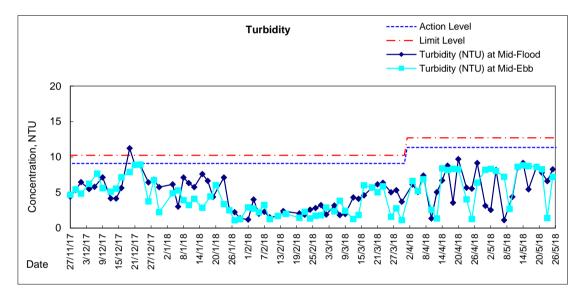


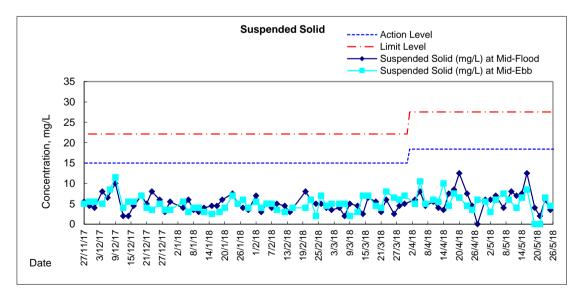


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Graphic Presentation of Water Quality Result of P3 - APA

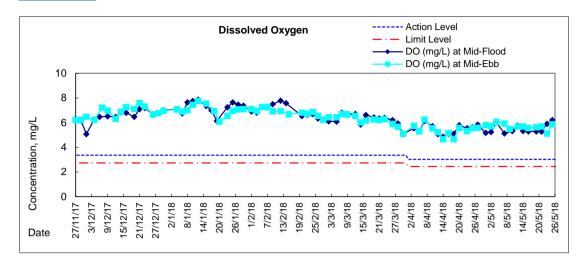


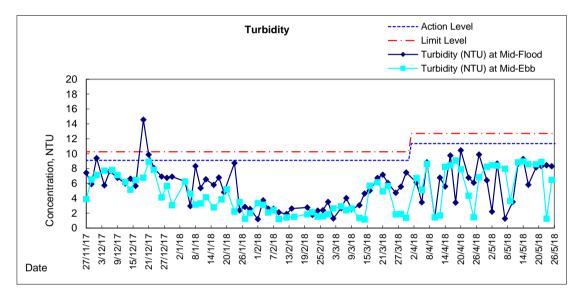


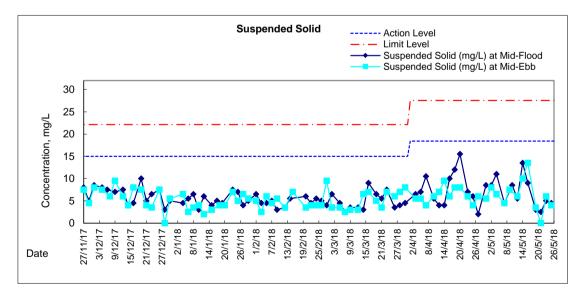




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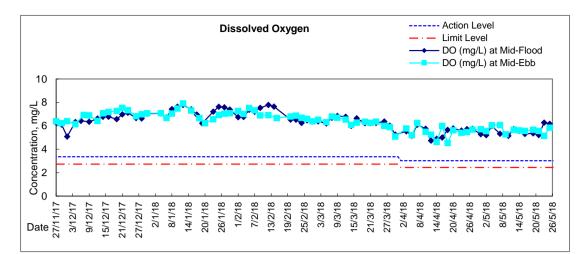


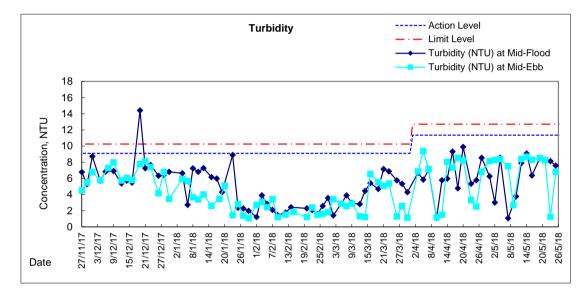


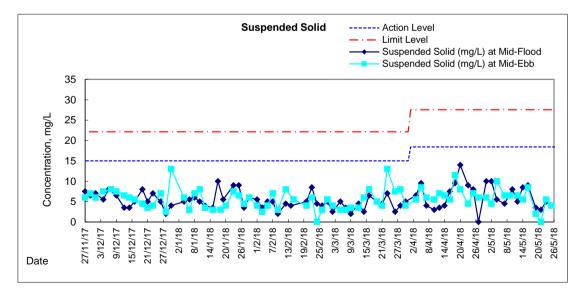


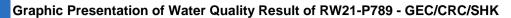


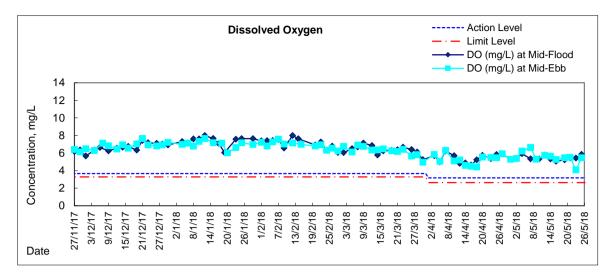
Graphic Presentation of Water Quality Result of P4 - SOC

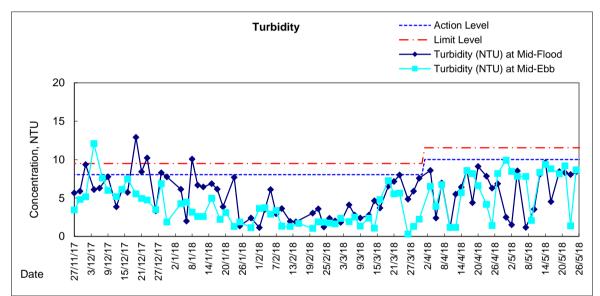


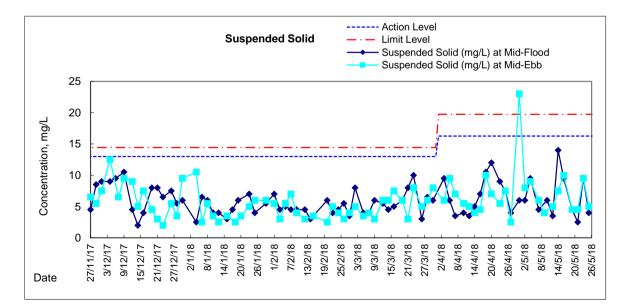






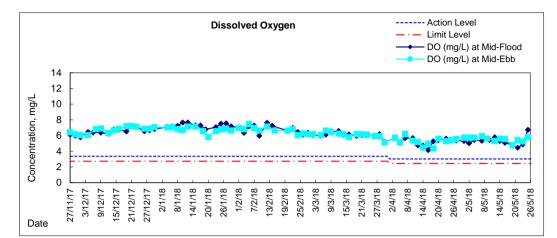


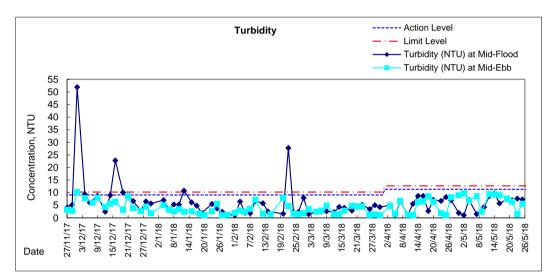


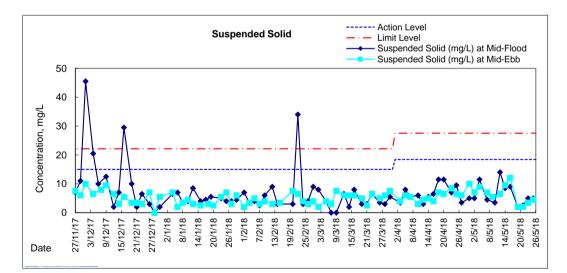


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Graphic Presentation of Water Quality Result of C7 - Windsor House

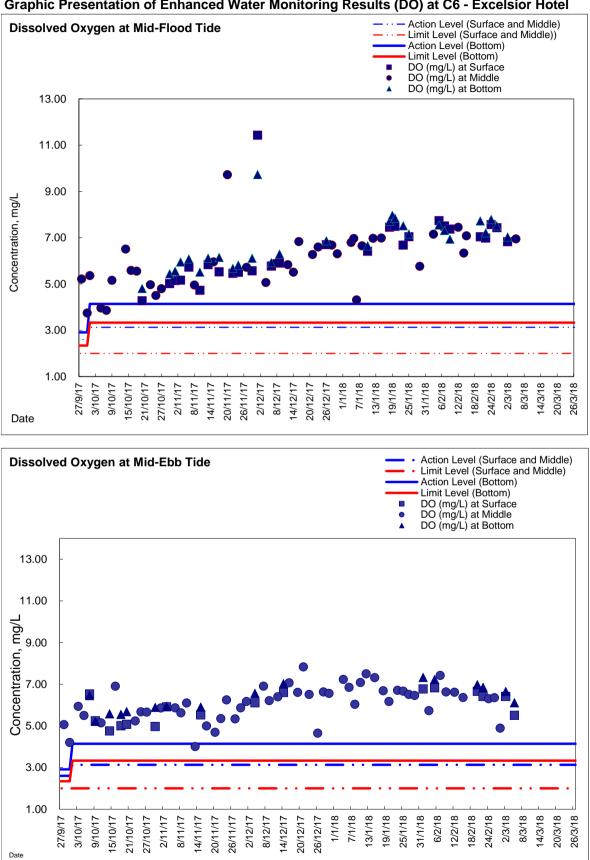






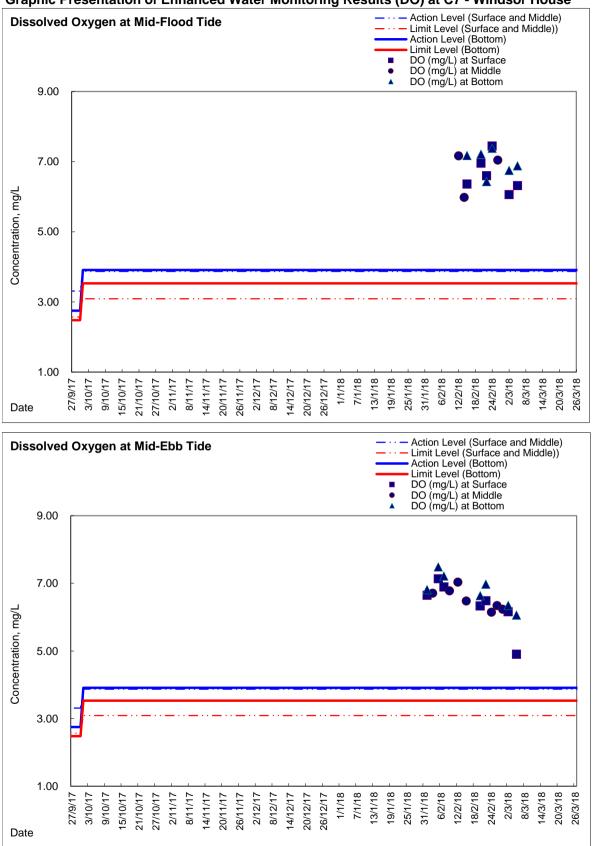






Graphic Presentation of Enhanced Water Monitoring Results (DO) at C6 - Excelsior Hotel





Graphic Presentation of Enhanced Water Monitoring Results (DO) at C7 - Windsor House

Remark:

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 was resumed from 1 February 2018 onwards with respect to the completion of removal of temporary reclamation zone.

With respect to the completion of the removal of the temporary reclamation at TS3 area confirmed by the CWB RSS and the completion of the 4-weeks post construction water quality monitoring at the associated Enhanced DO monitoring stations, the respective Enhance DO monitoring at Monitoring Station C6 and C7 were temporarily suspended from 5 March 2017 ebb tide onwards.



Appendix 5.1

Event Action Plans



Event/Action Plan for Construction Noise

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



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



Event / Action Plan for Construction Air Quality

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



Event and Action Plan for Marine Water Quality

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



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



Event and Action Plan for Odour Patrol

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



Appendix 6.1

Complaints Log



Environmental Complaints Log

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



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



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



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



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



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



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Out	tcome	Status
						so as to prevent recurrent by barge defect	
110723a	23/07/2011	Ms. Law at Victoria Centre by ICC no. 1- 303887687	North Point	She concerned that Highways Department published a notice in their Management Office about construction works will be conducted from 0700 hours to 2300 hours during July to December 2011 including	1) 2)	It was referred by AECOM to ET on 28 July 2011 RSS confirmed that the notice was prepared by Victoria Centre's Management office to their resident and the advice was only given on the extension construction works (for Contract HY/2009/15) to 7am-9pm from Monday to Saturday except Public Holidays and Sundays.	
				Saturday, Sunday and public holiday.	3)	As a mitigation measure to minimize the noise nuisance in the vicinity of the residents, rock breaking activities will be started at 8am and is expected to be completed by mid- August 2011.	Closed
		4)	No noise exceedance was recorded at construction noise monitoring station at Victoria Centre on 19 and 25 July 2011 during daytime while breaking and excavation works were undertaken during monitoring.				
			5)	In conclusion, it was related to the construction works under Contract HY/2009/15 and mitigation measure was provided. The complainant was satisfied with the arrangement and no further complaint was received after proposed measures.			
110723b	23/07/2011	Ms. Yau at Block	North Point	Reclamation work was	1)	It was referred by AECOM to ET on 8 August 2011	
		2, Victoria Centre by ICC no. 1- 304013959		conducted at Causeway Bay Typhoon Shelter at 7am on 23 July 2011. She complained that the works shall be started later to minimize the noise nuisance to the vicinity of the residents in early morning	2)	With reference to the construction noise monitoring at Vitoria Centre, no exceedance was recorded on 19 and 25 July 2011 during daytime while breaking and excavation works were undertaken during monitoring	
			to the vic		3)	As a mitigation measure to minimize the noise nuisance in the vicinity of the residents, rock breaking activities will be started at 8am and is expected to be completed by mid- August 2011.	Closed
			4)	In conclusion, it was related to the construction works under Contract HY/2009/15 and mitigation measure was provided. The complainant was satisfied with the arrangement and no further complaint was received after proposed measures.			
110727a	27/07/2011	Mr. Law from Victoria Centre Management Office by ICC no. 1-304616162	North Point	It was complained by Mr. Law from Victoria Centre Management Office on 27 July 2011 regarding construction noise generated by the construction operations of	1) 2) 3)	It was referred by AECOM to ET on 28 July 2011 RSS confirmed to start the rock breaking activities for Contract HY/2009/15 at 8am as a mitigation measure to minimize the noise nuisance in the vicinity of the residents. No noise exceedance was recorded at construction noise	Closed



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



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



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



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



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



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



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



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



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



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



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



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



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



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



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



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



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



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



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



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



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



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



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



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



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



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



Appendix 7.1

Construction Programme of Individual Contracts

EDD C	ONTRACT H	IK/2009/02																			Page 1
y ID	Activity Name		Ori	Rem	Scheduled	Scheduled /	Total	Calendar								2018					
			Dur	Dur	/Actual Start	Actual Finish	Float		21	28		oruary	3 25	5 04	Mar 11	ch 18	25 01	08	April 15	22 2	May 29 06
	Iling Programme 2018-02										8										
		f Government Helipad and Public Toilet									2 2 2 2		8				5 5 5 5		1		
Expo Drive East ar S3-0070-1499D	nd Convention Avenue - Outst	tanding Works covered walkway at Expo Drive East	24	27	28-Nov-16 A	22-Mar-18	-144				8 8 8 8					Defe	te rectificati	on works fr	the cover	ad walkway at	Expo Drive East,
S3-0070-1499D S3-0070-1510		er tapes, water pipes & telephone cables serving Dragon Pearl Cr		27	23-Feb-18	22-Mar-18	-144	HK Working Day HK Working Day	1		1		:	-						1 Î	& telephone cable
S3-0070-1520	Construct end copings x 3 nos.		15	15	21-Mar-18	10-Apr-18	-138	HK Working Day										— C			ios., Construct en
S3-0070-1530	Construct Paving Blocks adjacent		6	6	10-Apr-18	16-Apr-18	-138	HK Working Day			8								Con	struct Paving B	locks adjacent to
	e works - Cooling water Pl ork above Tunnel Portion & co	umping System for Sun Hung Kai Centre (P8)									8 8 8 8		5 5 5	-				-	5 5 5		
S4A-0900C1	Submission for Raising the Vent S		60	45	05-Feb-18 A	14-Apr-18	491	HK Working Day			1						2 2 2		Submis	sion for Raising	g the Vent Shaft a
S4A-0900C2	Raising the Vent Shaft and Water		60	60	16-Apr-18	20-Jun-18	491	HK Working Day												4	
Section 4B of the	e Works - Cooling Water P	umping System for China Resources Building	g (P9)								2 2 2 2		8				5 5 5 5		1		
-	ork above Tunnel Portion & co						101				8 8 8						1		Outer		
S4B-0900C1 S4B-0900C2	Submission for Raise Vent Shaft a Raise Vent Shaft and Water Meter		60		05-Feb-18 A 16-Apr-18	14-Apr-18 20-Jun-18	491 491	HK Working Day HK Working Day	ł		1		-	1			1	-	Submi	Sion for Raise	Vent Shaft and W
		umping System for Great Eagle Centre / Harbo		00	10740110	20 001110	401	The Wonding Day								+		·			
	ork above Tunnel Portion & co										1						8		-		
S4C-0900C1	Submission for Raise Vent Shaft a	nd Water Meter Room	60	45	05-Feb-18 A	14-Apr-18	-294	HK Working Day			1			;		: : 		;	Submis	sion for Raise	Vent Shaft and W
S4C-0900C2	Raise Vent Shaft and Water Meter		60	60	16-Apr-18	20-Jun-18	-294	HK Working Day			8		1	-			8				
	Works - WSD Salt Water Pu	umping System																			
WSD Salt Water Pu Outstanding Works											8						8		1 1 1		
S5-OUT-1000	and the second	at the front yard of WSD Pump station	6	6	26-Feb-18	03-Mar-18	-115	Calendar Day			8			Can	y out defect	rectification wo	ks at the fro	nt yard of \	NSD Pump	station, Carry	out defect rectifica
ection 8A of the	e Works - Reprovisioning of	of Wan Chai Ferry Pier in Area 8									1			-			1				
Outstanding Work											8		1				8		-		
S8A-OUT-1039a	Construct Permanent EVA (east-w		25	60	15-Sep-17 A	02-May-18	-152	HK Working Day		1 1	1	:				· · · ·					Construct Perr
S8A-OUT-1040	Relocation of fire hydrant near Fer		8	8	06-Mar-18	14-Mar-18	-111	HK Working Day			8				R	elocation of fire	hydrant ne	ar Ferry Pie	r, Relocatio	n of fire hydran	t near Ferry Pier
ection 9B of the Funnel Portion 1 (0	e Works - CWB Tunnel Stru	ucture (CH3400 - CH3796)									4 2 2 2		* * *				- 				
CWB Structural Wo											8						8				
Outstanding Works																					
	5		25	7	28-Sep-17 A	26-Feb-18	-110	Calendar Day	-								10			1 1	works against wa
S9B-11-001-1045	TB1 - Carry out CCTV inspection f	or the drainage system	2	2	20-Feb-18	21-Feb-18	-115	Calendar Day			8	-	IB1-C	any out Co	J I V Inspecti	on for the drain	age system,	IBI - Can	yout CC N	/ inspection for	the drainage syst
CWB Structural Wo											8 8 8 8		5 5 5 5	-			8 8 8				
Outstanding Works									1 1 1 1												
	TB2 - Rectification works against w		25		28-Sep-17 A	26-Feb-18	-110 -115	Calendar Day	-			-				-	-			1 1	works against wa for the drainage s
	TB2 - Carry out CCTV inspection fe Tunnel Portion 4 (CH3630-CH		2	2	22-Feb-18	23-Feb-18	-115	Calendar Day			8 8 8		ID2		CCTVIIIspe		anage syste	III, ID2 - C		si v inspection	IOI IIIE UIAIIIAGE S
CWB Structural Wo	`										8		1	-	1		1		-		
TP3 & 4 Outstanding	<u> </u>																				
	 TP3 & 4 - Carry out defects rectific TB3 & 4 - Carry out CCTV inspecti 		25	7	10-Jun-16 A 24-Feb-18	26-Feb-18 25-Feb-18	-110 -115	Calendar Day Calendar Day	-						-	1 1				s rectification w	orks
	s - CWB Tunnel Structure			2	24-100-10	254 65-10	-115	Galcildar Day			3 8 8 8										
FP5 Outstanding \		(0.102.10 0.10.100)									8		1	-			8		1		
S10-T5-OUT-1020	TP5 - Carry out defects identification	on and rectification works	80	7	17-Jul-17 A	26-Feb-18	-110	Calendar Day			· · · · · · · · · · · · · · · · · · ·	·	1	P5 - Carry	out defects	identification a	id rectificatio	n works, T	P5 - Carry o	out defects ider	ntification and rect
S10-T5-OUT-1030	TP5 - Remedial works of the cross		18	18	17-Sep-17 A	09-Mar-18	-121	Calendar Day							TP5 - R	emedial works	of the cross	oad ducts	and draina	ge pipes, TP5 -	Remedial works
	e Works - Remainder of Wo	orks									- 		- - 				- 				
Marine Works at W		ana Dadi Amerika		44	05 D 47 A	00 Mar 40	405				8 8 8					nodial works fo	0.5 toppo		ur Com ou	t romodial work	s for 0.5 tonne R
S11-R3-2105 Misc. Works	Carry out remedial works for 0.5 to	nne Rock Armour	0	11	25-Dec-17 A	06-Mar-18	-135	HK Working Day													IS IOI 0.5 IOI IIIE R
	rary Reclamation CH 3710 to CH 37	790 (East)										8 8 8 8					8	8	8 8 8		
♦ Milestone	2														Date		Revisio	n		Checked	Approv
 Writesione Critical Mile 																					
CurrentW		CHUN WO - CRGL			CEDD	CONTR	RACT	NO. HK/2	2009	0/02											
Critical Wo		JOINT VENTURE	WD II - C	ontr	al Wan	chai Rv	naee	at Wan C	hai	Fact	(Cont	tract	2)			_					
	orks ng Level of Effort					-	-				•		~)			_					
			3-MON	ITH	ROLLI	NG PRC	JGRA	MME (da	ta d	ate 2	0-Feb	-18)				_					
																_					

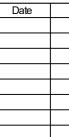
CEDD CONTRACT HK/2009/02

r ID	Activity Name	Ori Dur	Rem Dur	Scheduled /Actual Start	Scheduled / Actual Finish	Total Float	Calendar	2018 February March
S11-RTC-3075	Works within Temp D-Wall - Install Permanent Seawall Blocks 2 x Type 12 (360 nos. @ 20 nos./day)	28	3	11-Jan-18 A	26-Feb-18	-668	HK Working Day	21 28 04 11 18 25 04 11 18 Works within Temp D-Wall - Install
S11-RTC-3076	Works within Temp D-Wall - Install Permanent Seawall Blocks Type 8 (152 nos. @ 20 nos./day)	14	3	11-Jan-18 A	26-Feb-18	593	HK Working Day	Works within Temp D-Wall - Install
S11-RTC-3080	Works within Temp D-Wall - Type A Rock fill behind Permanent Seawall Blocks	6	6	12-Feb-18 A	01-Mar-18	-680	HK Working Day	Works within Temp D-Wall - Ty
11-RTC-3085	Works within Temp D-Wall - Placing Geotextile and Filter	6	6	26-Feb-18	03-Mar-18	-680	HK Working Day	Works within Temp D-Wall
11-RTC-3090	Works within Temp D-Wall - Bulk Reclamation to +4.50 mPD (6,800m3 @ 500m3/day)	14	14	01-Mar-18	16-Mar-18	-680	HK Working Day	Works w
11-RTC-3120	Remove part of temporary reclamation by barge (10.000 out of 32,000 m3 @ 800 m3/day)	20	20	16-Mar-18	11-Apr-18	-680	HK Working Day	
1-RTC-3120	Remove part of the temp seawall to form marine entrance to temp reclamation zone (400 out of 886 nos. @ 30 nos./day)	16	16	10-Mar-18	28-Mar-18	-680	HK Working Day	
1-RTC-3123	Installation of Breakwater as temporary protection to fill slope (340 nos. @ 2 nos./day)	20	20	12-Mar-18	06-Apr-18	-680	HK Working Day	
1-RTC-3125		20	20	06-Apr-18	07-May-18	-680	HK Working Day	
	Remove remaining temporary reclamation by barge (22.000 out of 32,000 m3 @ 800 m3/day) rary Reclamation CH 3630 to CH 3710 (West)	20	20	00-Api-18	07-Way-18	-060	HK WOIKING Day	
11-RTC-3245	hstallation of Breakwater as temporary protection to fill slope (170 nos.@20 nos./day)	8	8	14-Mar-18	22-Mar-18	-574	HK Working Day	
1-RTC-3245		22	° 22					
	Remove remaining temporary reclamation from +4mPD to -6mPD by barge (22,000 m3@1000m3/day)			15-Mar-18	12-Apr-18	-176	HK Working Day	
1-RTC-3249	Remove soil behind existing seawall (5,000 m3@1000m3/day)	6	6	12-Apr-18	18-Apr-18	-176	HK Working Day	k kkkkkk
-RTC-3251	Remove 2 sections of existing seawall (320 nos.@30nos./day)	12	12	19-Apr-18	02-May-18	-176	HK Working Day	
-RTC-3370	Works within Temp D-Wall - Install Permanent Seawall Blocks in dry condition (1st to 3rd) (563 nos.@8 nos./d)	80	3	11-Jan-18 A	26-Feb-18	-559	HK Working Day	Works within Temp D-Wall - Install
-RTC-3380	Works within Temp D-Wall - Place Type A Rock fill, Geotextile and Filter -6.0mPD to -3.0mPD	6	6	10-Apr-18	16-Apr-18	-574	HK Working Day	
RTC-3390	Works within Temp D-Wall - Place Sorted Public Fill -6.0mPD to -3.0mPD (4,500m3@600m3/d)	11	11	16-Apr-18	27-Apr-18	-574	HK Working Day	
RTC-3432	Works at South-West corner - Site Preparation for forming an access at SW of TP34	32	7	14-Nov-17 A	02-Mar-18	-720	HK Working Day	Works at South-West comer
RTC-3442	Excavation and dredging between Temp Seawall & D-Wall to Temp Seawal (middle)	30	30	26-Mar-18	02-May-18	-720	HK Working Day	
RTC-3443	Excavation and dredging between Temp Seawall & D-Wall to Temp Seawal (west side)	25	25	19-Apr-18	16-May-18	-720	HK Working Day	
nporary Works a	at North West corner of Tunnel Portion 3 and 4							
-TW-1215	Tie back SP Wall - Site formation and lowering soil to existing ground level at west	6	6	02-Mar-18	08-Mar-18	-720	HK Working Day	Tie back SP Wall - S
-TW-1220	Tie back SP Wall - Form temporary 1:5 cut slope and excavate to +1.5mPD at west (360 m3@50 m3/day)	8	8	05-Mar-18	13-Mar-18	-720	HK Working Day	Tie back SP
TW-1230	Tie back SP Wall - Install brackets and waling to sheet pile wall (2nos.@4 days/no.)	8	8	14-Mar-18	22-Mar-18	-720	HK Working Day	
W-1240	Tie back SP Wall - Install tie back (4nos. @1no./day)	4	4	22-Mar-18	26-Mar-18	-720	HK Working Day	
val of Tempor	rary D-Wall CH 3630 to CH 3710						3,	
RTC-3341b	Preparation for D-Wall Cutting - Remaining Coing inside D Wall (72 nos.for lifting, 3 machine@1no./machine/day)	24	24	05-Mar-18	03-Apr-18	-669	HK Working Day	
RTC-3342	Preparation for D-Wall Cutting - Excavation within tunnel cofferdam for cutting holes (350m3 (@ 100m3/day)	4	4	03-Apr-18	07-Apr-18	-669	HK Working Day	
RTC-3345	Preparation for D-Wall Cutting - Advance Coring within tunnel conferdam (37 nos., 3 machines@1no./machine/day)	15	15	07-Apr-18	24-Apr-18	-669	HK Working Day	
atement of B		15	15	07-Api-10	24-Api-10	-009	THE WORKING Day	
CO-2016		45	10	10 Aug 17 A	07-Mar-18	584	LIK Working Day	Box Culvert O Reinst
	Box Culvert O Reinstatement - Design of Box Culvert 'O' by designer and reviewed by CW-CRGLJV	45	12	18-Aug-17 A			HK Working Day	Box Culvert O Reinst
3CO-2020	Box Culvert O Reinstatement - Design Submission of Box Culvert 'O' for comment and approval by AECOM	35	12	25-Oct-17 A	07-Mar-18	-297	HK Working Day	Box Cuiven O Reinst
BCO-2022	Box Culvert O Reinstatement - Precast Units Fabrication and Delivery (Total = 107 units @1.5no/day + 20d delivery)	45	45	08-Mar-18	28-Apr-18	-163	HK Working Day	
BCO-2027	Box Culvert O Reinstatement - Installation of Bulkhead at Bay 19 (Outfall) of Box Culvert 'O'	14	14	07-Mar-18	22-Mar-18	-297	HK Working Day	
I-BCO-2050a	Box Culvert O Reinstatement - Carry out inspection and defect rectification to Bay 18-19 at the north	24	24	25-Apr-18	21-May-18	-297	HK Working Day	
	struction (Tunnel Section) - Bay 15A and Bay 16A							
1-BCO-2066	Box Culvert O Reinstatement - Bay 16A Base formwork	2	2	03-Mar-18	05-Mar-18	-200	HK Working Day	Box Culvert O Reinstate
1-BCO-2067	Box Culvert O Reinstatement - Bay 16A Base rebar	3	3	05-Mar-18	08-Mar-18	-200	HK Working Day	Box Culvert O Reins
-BCO-2068	Box Culvert O Reinstatement - Bay 16A Base kicker and end formwork	2	2	08-Mar-18	10-Mar-18	-200	HK Working Day	Box Culvert O Re
-BCO-2069	Box Culvert O Reinstatement - Bay 16A Base concrete	1	1	10-Mar-18	12-Mar-18	-200	HK Working Day	Box Culvert O
-BCO-2070	Box Culvert O Reinstatement - Bay 16A Remove Base formwork	1	1	12-Mar-18	13-Mar-18	-200	HK Working Day	Box Culvert C
1-BCO-2071	Box Culvert O Reinstatement - Bay 16A Mid Wall rebar	2	2	24-Mar-18	27-Mar-18	-200	HK Working Day	
11-BCO-2072	Box Culvert O Reinstatement - Bay 16A Wall int formwork	2	2	27-Mar-18	29-Mar-18	-200	HK Working Day	
11-BCO-2073	Box Culvert O Reinstatement - Bay 16A External Wall rebar	3	3	29-Mar-18	04-Apr-18	-200	HK Working Day	
11-BCO-2074	Box Culvert O Reinstatement - Bay 16A Wall External formwork	2	2	06-Apr-18	07-Apr-18	-200	HK Working Day	
11-BCO-2074a	Box Culvert O Reinstatement - Bay 16A falsework and formwork for Roof	2	2	07-Apr-18	10-Apr-18	-200	HK Working Day	
11-BCO-2075	Box Culvert O Reinstatement - Bay 16A Roof rebar	3	3	10-Apr-18	13-Apr-18	-200	HK Working Day	
11-BCO-2076	Box Culvert O Reinstatement - Bay 16A End formwork	2	2	13-Apr-18	14-Apr-18	-200	HK Working Day	
11-BCO-2077	Box Culvert O Reinstatement - Bay 16A Roof and Wall concrete	1	1	16-Apr-18	16-Apr-18	-200	HK Working Day	
11-BCO-2078	Box Culvert O Reinstatement - Bay 16A Remove End formwork	1	1	16-Apr-18	17-Apr-18	-200	HK Working Day	
11-BCO-2079	Box Culvert O Reinstatement - Bay 15A Base formwork	2	2	23-Feb-18	24-Feb-18	594	HK Working Day	Box Culvert O Reinstatement - Bay
611-BCO-2079a	Box Culvert O Reinstatement - Bay 15A (15 m) Structural Works	56	56	23-Feb-18	26-Apr-18	-213	HK Working Day	
11-BCO-2079a 11-BCO-2079b	Box Culvert O Reinstatement - Bay 16A (16 III) Structural Works Box Culvert O Reinstatement - Bay 16A Construction of Inspection Manhole	9	9	23-Peb-18 23-Apr-18		-213	HK Working Day	
	· · ·			· ·	03-May-18			Box Culvert O Reinstatement - Bay
11-BCO-2080	Box Culvert O Reinstatement - Bay 15A Base rebar	3	2	20-Feb-18 A	24-Feb-18	-200	HK Working Day	Box Culvert O Reinstatement - Bay 1 Box Culvert O Reinstatement - Bay 1
11-BCO-2081	Box Culvert O Reinstatement - Bay 15A Base kicker and end formwork	2	2	24-Feb-18 27-Feb-18	27-Feb-18 28-Feb-18	-200 -200	HK Working Day HK Working Day	Box Culvert O Reinstatement - B
11-BCO-2082	Box Culvert O Reinstatement - Bay 15A Base concrete	1	1					

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 (data date 20-Feb-18)



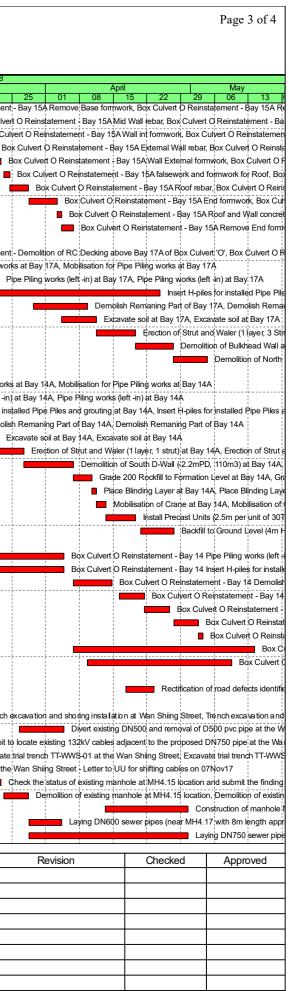
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CEDD CONTRACT HK/2009/02

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/ ID	Activity Name	Ori	Rem	Scheduled	Scheduled /	Total	Calendar					2018
		Dur	Dur	/Actual Start	Actual Finish	Float		21 28	04	February 11	18 25	March 04 11 18
S11-BCO-2084	Box Culvert O Reinstatement - Bay 15A Remove Base formwork	1	1	01-Mar-18	02-Mar-18	-200	HK Working Day	21 28	04		18 25	Box Culvert O Reinstatement
S11-BCO-2086	Box Culvert O Reinstatement - Bay 15A Mid Wall rebar	3	3	13-Mar-18	15-Mar-18	-200	HK Working Day					Box Culvert
S11-BCO-2088	Box Culvert O Reinstatement - Bay 15A Wall int formwork	2	2	15-Mar-18	17-Mar-18	-200	HK Working Day					Box Culve
S11-BCO-2089	Box Culvert O Reinstatement - Bay 15A External Wall rebar	3	3	17-Mar-18	21-Mar-18	-200	HK Working Day				1	Box
S11-BCO-2091	Box Culvert O Reinstatement - Bay 15A Wall External formwork	2	2	21-Mar-18	22-Mar-18	-200	HK Working Day		1		1	Bo
S11-BCO-2091a	Box Culvert O Reinstatement - Bay 15A falsework and formwork for Roof	2	2	23-Mar-18	24-Mar-18	-200	HK Working Day				1	
S11-BCO-2092	Box Culvert O Reinstatement - Bay 15A Roof rebar	3	3	24-Mar-18	28-Mar-18	-189	HK Working Day		1		1	
S11-BCO-2093	Box Culvert O Reinstatement - Bay 15A End formwork	2	2	28-Mar-18	03-Apr-18	-189	HK Working Day	· · · · · · · · · · · · · · · · · · ·		·		
S11-BCO-2094	Box Culvert O Reinstatement - Bay 15A Roof and Wall concrete	1	1	03-Apr-18	04-Apr-18	-189	HK Working Day				1	
S11-BCO-2095	Box Culvert O Reinstatement - Bay 15A Remove End formwork	2	2	03-Apr-18	06-Apr-18	-189	HK Working Day				-	
	struction (Outfall Section) - Bay 17A	2	2	047401-10	007401-10	-105	The working Day				1	
S11-BCO-2026	Box Culvert O Reinstatement - Demolition of RC Decking above Bay 17A of Box Culvert 'O'	7	7	23-Feb-18	02-Mar-18	-293	HK Working Day					Box Culvert O Reinstatement -
S11-BCO-2112	Mobilisation for Pipe Piling works at Bay 17A	4	4	24-Feb-18	01-Mar-18	-174	HK Working Day	ļ		· • • • • • • • • • • • • • • • • • • •		Mobilisation for Pipe Piling works
S11-BCO-2114	Pipe Piling works (left -in) at Bay 17A	20	20	01-Mar-18	22-Mar-18	-174	HK Working Day					Pin
S11-BCO-2116	Insert H-piles for installed Pipe Piles and grouting at Bay 17A	28	28	22-Mar-18	24-Apr-18	-174	HK Working Day					
S11-BCO-2118	Demolish Remaning Part of Bay 17A	6	6	29-Mar-18	09-Apr-18	-174	HK Working Day				1	
S11-BCO-2120	Excavate soil at Bay 17A	6	6	04-Apr-18	11-Apr-18	-174	HK Working Day		1		1	
S11-BCO-2120	Erection of Strut and Waler (1 layer, 3 Struts) at Bay 17A	8	8	11-Apr-18	19-Apr-18	-174	HK Working Day	· · · · · · · · · · · · · · · · · · ·		•	·····	
S11-BCO-2122 S11-BCO-2124		8	8	· ·		-174					1	
S11-BCO-2124	Demolition of Bulkhead Wall at Bay 18	6	6	19-Apr-18 27-Apr-18	27-Apr-18 04-May-18	-174	HK Working Day		1		1	
	Demolition of North D-Wall (-2.2mPD, 110m3) at Bay 17A struction - Bay 14A	0	0	27-Api-16	04-Way-16	-174	HK Working Day				1	
S11-BCO-2152	Mobilisation for Pipe Piling works at Bay 14A	5	5	23-Feb-18	28-Feb-18	-398	HK Working Day					Mobilisation for Pipe Piling works
S11-BCO-2152	Pipe Piling works (left -in) at Bay 14A	5	5	28-Feb-18	05-Mar-18	-398	HK Working Day					Pipe Piling works (left -in)
S11-BCO-2154		4	4	05-Mar-18	05-Mar-18	-388	HK Working Day					Insert H-piles for insta
S11-BCO-2158	Insert H-piles for installed Pipe Piles and grouting at Bay 14A	8	8	09-Mar-18	17-Mar-18	-300	HK Working Day					Demolish
	Demolish Remaning Part of Bay 14A						0 ,				1	
S11-BCO-2160	Excavate soil at Bay 14A	4	4	17-Mar-18	22-Mar-18	-207	HK Working Day				1	Ex Ex
S11-BCO-2162	Erection of Strut and Waler (1 layer, 1 strut) at Bay 14A	5	5	22-Mar-18	27-Mar-18	-207	HK Working Day					
S11-BCO-2166	Demolition of South D-Wal (-2.2mPD, 110m3) at Bay 14A	6	6	27-Mar-18	06-Apr-18	-207	HK Working Day					
S11-BCO-2168	Grade 200 Rockfill to Formation Level at Bay 14A	3	3	06-Apr-18	10-Apr-18	-207	HK Working Day				1	
S11-BCO-2172	Place Blinding Layer at Bay 14A	1	1	10-Apr-18	11-Apr-18	-207	HK Working Day				1	
S11-BCO-2174	Mobilisation of Crane at Bay 14A	2	2	11-Apr-18	13-Apr-18	-207	HK Working Day				-	
S11-BCO-2176	Install Precast Units (2.5m per unit of 30T, 16 units @3 units/day) at Bay 14A	6	6	13-Apr-18	19-Apr-18	-207	HK Working Day					
S11-BCO-2178	Backfill to Ground Level (4m Height, 2 Layer/day 300 thk) at Bay 14A	7	7	20-Apr-18	27-Apr-18	-149	HK Working Day				1	
	struction (South Portion) - Bay 14 to Bay 13	25	25	06-Mar-18	04 Apr 19	200					1	
S11-BCO-2316	Box Culvert O Reinstatement - Bay 14 Pipe Piling works (left -in)	25	25		04-Apr-18	-398	HK Working Day				1	
S11-BCO-2318	Box Culvert O Reinstatement - Bay 14 Insert H-piles for installed Pipe Piles and grouting	21	21	10-Mar-18	04-Apr-18	-388	HK Working Day				-	
S11-BCO-2320	Box Culvert O Reinstatement - Bay 14 Demolish Remaning Part	8	8	06-Apr-18	14-Apr-18	-220	HK Working Day					
S11-BCO-2322	Box Culvert O Reinstatement - Bay 14 Excavate soil	6	6	16-Apr-18	21-Apr-18	-220	HK Working Day					
S11-BCO-2324	Box Culvert O Reinstatement - Bay 14 Erection of Strut and Waler (1 layer,4 struts)	5	5	21-Apr-18	26-Apr-18	-220	HK Working Day				1	
S11-BCO-2326	Box Culvert O Reinstatement - Bay 14 Grade 200 Rockfill to Formation Level (Remaining Portion)	3	3	27-Apr-18	02-May-18	-220	HK Working Day				1	
S11-BCO-2328	Box Culvert O Reinstatement - Bay 14 Place Blinding Layer	1	1	02-May-18	03-May-18	-220	HK Working Day				1	
S11-BCO-2366	Box Culvert O Reinstatement - Bay 13 Pipe Piling works (left -in)	34	34	06-Apr-18	14-May-18	-398	HK Working Day					
S11-BCO-2368	Box Culvert O Reinstatement - Bay 13 Insert H-piles for installed Pipe Piles and grouting	28	28	09-Apr-18	09-May-18	-390	HK Working Day				1	
Reinstatement for T									1		1	
S11-HH-5048	Rectification of road defects identified at Convention Avenue	5	5	17-Apr-18	23-Apr-18	-144	HK Working Day				1	
Wan Shing Street S											1	
S11-SW-1083	Trench excavation and shoring installation at Wan Shiing Street	12	23	31-Aug-17 A	17-Mar-18	-315	HK Working Day			· ÷		Trench ex
S11-SW-1084	Divert existing DN500 and removal of D500 pvc pipe at the Wan Shiing Street	6	6	26-Mar-18	04-Apr-18	-322	HK Working Day				1	
S11-SW-1084a	Excavate trial pit to locate existing 132kV cables adjacent to the proposed DN750 pipe at the Wan Shiing Street	6	15	11-Aug-17 A	10-Mar-18	-332	HK Working Day			: :		Excavate trial pit to
S11-SW-1084b	Excavate trial trench TT-WWS-01 at the Wan Shiing Street	8	15	23-Sep-17 A	16-Mar-18	-332	HK Working Day					Excavate to
S11-SW-1084b1	Excavate trial trench TT-WWS-01 at the Wan Shiing Street - Letter to UU for shifting cables on 07Nov17	8	0	07-Nov-17 A	23-Feb-18	596	HK Working Day		-	: :	Excava	te trial trench TT-WWS-01 at the V
S11-SW-1084c	Check the status of existing manhole at MH4.15 location and submit the finding to the ER	6	6	16-Mar-18	22-Mar-18	-332	HK Working Day					Ci
S11-SW-1085	Demolition of existing manhole at MH4.15 location	5	5	23-Mar-18	28-Mar-18	-332	HK Working Day					
S11-SW-1086	Construction of manhole MH4.17 (Type I) including DN600 inlet	16	16	13-Apr-18	30-Apr-18	-329	HK Working Day				1	
311-377-1000												
S11-SW-1080	Laying DN600 sewer pipes (near MH4.17 with 8m length approx.)	3	3	28-Mar-18	04-Apr-18	-332	HK Working Day				1	

♦ Milestone			Date	Revision
Critical Milestones	CHUN WO - CRGL	CEDD CONTRACT NO. HK/2009/02		
CurrentWorks				
Critical Works	JOINT VENTURE	WD II - Central Wanchai Bypass at Wan Chai East (Contract 2)		
Remaining Level of Effort		3-MONTH ROLLING PROGRAMME (data date 20-Feb-18)		
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CEDD CONTRACT HK/2009/02

t	Activity ID	Activity Name	Ori	Rem	Scheduled	Scheduled /	Total	Calendar									2018
			Dur	Dur	/Actual Start	Actual Finish	Float		February					March			h
									21	28	04	11	18	25	04	11	18
	S11-SW-1089	Backfill (300mm/layer), removal sheet piles and reinstate the pavement	27	27	04-Apr-18	04-May-18	-332	HK Working Day	-	1	1			-			

♦ ♦ Milestone			Date	
 Critical Milestones 				<u> </u>
CurrentWorks	CHUN WO - CRGL	CEDD CONTRACT NO. HK/2009/02		<u> </u>
	JOINT VENTURE	WD II Control Wanahai Bynasa at Wan Chai East (Contrast 2)		
Critical Works	JUINT VENTURE	WD II - Central Wanchai Bypass at Wan Chai East (Contract 2)		i i
Remaining Level of Effort		3-MONTH ROLLING PROGRAMME (data date 20-Feb-18)		
				í –

							Page	4 of 4
							-	
2								
5			A	April			May	
	25	01	08	15	22	29	06	13
							Backfill (3	00mm/laye

Revision	Checked	Approved

						Wan Chai Dev	ct No. HK/2012/08 /elopment Phase II 3ypass at Wan Chai West				Page : 1 / 3
Activity ID	Activity Name	Remaining Dur	Early Start	Early Finish		Apr	2018 May			Jun	Jul
HK/2012/08	Revised Works Programme Rev.12.0(DD 20 N	lovember 20	017)								
Dredging an	d Reclamation										
Marine Work	Construction										
Zone D											
Seawall Cons	truction - Zone D										
Seawall 10 &	11										
MAR20630	Zone D - Seawall 10 & 11: Install remaining seawall block	14	04-Apr-18*	17-Apr-18							
MAR20650	Zone D - Seawall 10 & 11: Backfill Type A	7	18-Apr-18	24-Apr-18							
MAR20670	Zone D - Seawall 10 & 11: Lay geotextile and filter	7	25-Apr-18	01-May-18							
Works for Se	ection Completion										
Construction											
Section III A	Road A2, A4 & A5										
Roadwork &	Utilities - Section 1 (L1806 - L1801)										
SIIIA10310b	Sec III A - section 1 carriageway - TTA stage 5: remaining	18	20-Mar-18	13-Apr-18							
SIIIA10310e	sewerage pipe for M/H F8A - M/H F8B Sec III A - section 1 carriageway - TTA stage 5: SR1	25	10-Apr-18	09-May-18							
SIIIA10310f	at-grade road -construct upstand wall above Dwall Sec III A - section 1 carriageway - TTA stage 5: SR1	14	10-May-18	26-May-18							
SIIIA10310g	at-grade road - roadside barrier Sec III A - section 1 carriageway - TTA stage 5: SR1	7	28-May-18	04-Jun-18							
SIIIA10310h	at-grade road - road formation Sec III A - section 1 carriageway - TTA stage 5: SR1	14	05-Jun-18	21-Jun-18							
SIIIA10312a	at-grade road - laying asphalt with transition slab	15	23-Mar-18	13-Apr-18							
SIIIA10312b	Drainage works (L1805 - L1801)	12	14-Apr-18	27-Apr-18							
SIIIA10313	Drainage works (L1805-1807) Sec III A - roadwork and utilities section 1 carriageway -	14	23-Apr-18	09-May-18							
SIIIA10320	gully pipe (L1807 - L1801) Sec III A - roadwork and utilities section 1 carriageway -	7	10-May-18	17-May-18							
SIIIA10320	Sec III A - roadwork and utilities section 1 carriageway - Sec III A - roadwork and utilities section 1 carriageway -	14	18-May-18	04-Jun-18					_		
	utilities: HEC (80m) along carriageway Sec III A - roadwork and utilities section 1 carriageway -			21-Jun-18							
	road kerb & formation	14	05-Jun-18	21-Juli-18							—
	Utilities - Section 6 (L1102 - L1411)	-	00.14								
SIIIA13470	Sec III A - roadwork and utilities section 6 carriageway - black top	7	28-Mar-18	09-Apr-18							
	maining At-Grade Road & Road P2										
Roadwork &											
Section 2 (L	1510 - L1504)										
SV12700	Sec V - Roadwork & Utilities Section 2 footpath - utilities: TCSS	16	20-Mar-18	11-Apr-18							
SV12740	Sec V - Roadwork & Utilities Section 2 footpath - paving block	18	12-Apr-18	03-May-18							
Section 3 (C	ulvert L - L1510)										
SIV12880	Sec V - Roadwork & Utilities Section 3 footpath - Paving block	21	27-Mar-18	24-Apr-18							
Section IV - S	lip Road 3										
Roadwork &	Utilities										
					• ·						,
	Current Milestone							Date	Revision	Checked	Approved
Data Date: 20-Feb-18	Actual Work	4	3 Month	s Rollir	ng Programme for N	Non-CRIII Area (Ar	oril 2018 - June 2018)	13-Mar-18	12		
20-1 50-10	Critical Remaining Work	·				Programme Rev.1	-				
	Remaining Work						-,				
	Remaining Level of Effort										

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

	A set its Mana	Demision		
ctivity ID	Activity Name	Remaining Dur	Early Start	Early Finish
Section 1 (L1	16608 - L1601)			
SIV11749	Sec IV - sign gantry DS20 & DS21 footing (type 2): removal of ELS and backfilling	10	21-Mar-18	04-Apr-18
SIV11751	Sec IV - sign gantry DS21 footing (type 3): excavation	5	26-Mar-18	03-Apr-18
SIV11752	Sec IV - sign gantry DS21 footing (type 3): footing structure	13	04-Apr-18	19-Apr-18
SIV11763	Sec IV - Roadwork & Utilities at SR3 Section 1 Carriageway -	21	20-Apr-18	15-May-18
SIV11765	Drainage Works (L2004 - L2005, L2101 - L2101A) Sec IV - Roadwork & Utilities at SR3 Section 1 Carriageway -	7	17-May-18	25-May-18
SIV11780	Gully pipe (L2004) Sec IV - Roadwork & Utilities at SR3 Section 1 Carriageway -	18	-	15-Jun-18
	Watermain		26-May-18	
SIV11800	Sec IV - Roadwork & Utilities at SR3 Section 1 Carriageway - Utilities : TCSS crossroad duct	14	16-Jun-18	04-Jul-18
SIV11860	Sec IV - Roadwork & Utilities at SR3 Section 1 footpath - Drainage Works: future connection pipes	7	26-May-18	02-Jun-18
SIV11880	Sec IV - Roadwork & Utilities at SR3 Section 1 footpath - watermain	7	04-Jun-18	11-Jun-18
SIV11900	Sec IV - Roadwork & Utilities at SR3 Section 1 footpath - utilities: HEC & TCSS	39	12-Jun-18	28-Jul-18
Section 2 (L	.2301 - L2103)			
SIV12080	Sec IV - Roadwork & Utilities at SR3 Section 2 footpath -	21	18-Apr-18	12-May-18
Section 3 (M	paving block //H1.6 - L2301)			
SIV12120	Sec IV - Roadwork & Utilities at SR3 Section 3 Carriageway -	28	12-Apr-18	15-May-18
	Drainage Works (M1.6-C1.1-C1.2): ELS, construct MH and		•	,
SIV12121	Sec IV - Roadwork & Utilities at SR3 Section 3 Carriageway - Drainage Works (M1.6-C1.1-C1.2): Backfilling & shift lane		16-May-18	23-May-18
SIV12122	Sec IV - Roadwork & Utilities at SR3 Section 3 Carriageway - Drainage Works (M1.6-C1.1-C1.2): Construct MH C1.2	5	24-May-18	29-May-18
SIV12140	Sec IV - Roadwork & Utilities at SR3 Section 3 Carriageway - Gully pipe (M/H 1.7 - L2301)	32	10-Apr-18	17-May-18
SIV12150	Sec IV - Roadwork & Utilities at SR3 Section 3 Carriageway - Road kerb	14	18-May-18	04-Jun-18
SIV12155	Sec IV - Roadwork & Utilities at SR3 Section 3 Carriageway -	10	05-Jun-18	15-Jun-18
SIV12160	formation Sec IV - Roadwork & Utilities at SR3 Section 3 Carriageway -	7	16-Jun-18	25-Jun-18
SIV12170	Black top Sec IV - Roadwork & Utilities at SR3 Section 3 footpath -	21	10-May-18	04-Jun-18
SIV12180	Utilities: TCSS Sec IV - Roadwork & Utilities at SR3 Section 3 footpath - U	10	05-Jun-18	15-Jun-18
	channel			
SIV12220	Sec IV - Roadwork & Utilities at SR3 Section 3 footpath - Paving block	25	16-Jun-18	17-Jul-18
Section VII - I	Remainder Works			
Road & Drair	nage Works (Culvert L - M/H1.7, Adjacent to SR3)			
SVII11620	Sec IV - Roadwork & Utilities at SR3 Section 4 Carriageway : traffic diversion at Lung King Street	3	21-Apr-18	24-Apr-18
SVII11640	Sec IV - Roadwork & Utilities at SR3 Section 4 Carriageway -	27	25-Apr-18	28-May-18
SVII11650	Gully pipe (Culvert L -MH1.7) Sec IV - Roadwork & Utilities at SR3 Section 4 Carriageway -	7	29-May-18	05-Jun-18
SVII11654	TCSS duct Sec IV - Roadwork & Utilities at SR3 Section 4 Carriageway -	14	06-Jun-18	22-Jun-18
SVII11680	road kerb & formation Sec IV - Roadwork & Utilities at SR3 Section 4 footpath - U	14	29-May-18	13-Jun-18
SVII11700	channel Sec IV - Roadwork & Utilities at SR3 Section 4 footpath -	14	14-Jun-18	30-Jun-18
	utilities: TCSS	14	14-Jun-18	30-Jun-18
Retaining Wa	all RW5 Construction			
SVII10660	Sec VII - Retaining Wall RW5 (bay 1) - construct base slab and wall	22	02-May-18	28-May-18
SVII10680	Sec VII - Retaining wall RW5 (bay 2) - construct base slab and wall	22	29-May-18	23-Jun-18
SVII10800	Sec VII - Retaining wall RW5 (bay 3) - construct base slab	22	02-May-18	28-May-18
SVII10820	and wall Sec VII - Retaining wall RW5 (bay 4) - construct base slab	22	29-May-18	23-Jun-18
Landing Step	and wall os Construction			
Landing Step				
SVII10900	Sec VII - Landing steps (BSW13) - install vertical fender / step fender	15	31-May-18	16-Jun-18

	Page : 2 / 3	
J	un	Jul
	-	
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	_	

CEDD Contract No. HK/2012/08 Wan Chai Development Phase II Central - Wan Chai Bypass at Wan Chai West Early Start Activity ID Activity Name emaining Dur Early Finish SVI110920 Sec VII - Landing steps (BSW13) - install s.s. handrail / 18-Jul-18 25 19-Jun-18 tactile / sign board / bollard Promenade Seawall Parapet Construction & EVA SVII13122 Sec VII - Zone A1, A2 & B - seawall parapet: reinforced 18 29-Mar-18 23-Apr-18 concrete coping SVII13140 Sec VII - Zone A1, A2 & B - seawall parapet: Construct 30 24-Apr-18 30-May-18 seawall parapet 31-May-18 SVII13160 Sec VII - Zone A1, A2 & B - EVA; watermain 14 15-Jun-18 Sec VII - Zone A1, A2 & B - EVA: U-channel SVII13180 14 16-Jun-18 04-Jul-18 SVII13200 Sec VII - Zone D - seawall parapet: Remove temporary 21 21-Mar-18* 18-Apr-18 seawall block SVII13220 Sec VII - Zone D - seawall parapet: Construct mass concrete 30 19-Apr-18 25-May-18 Sec VII - Zone D - seawall parapet: reinforced concrete SVII13222 15-Jun-18 18 26-May-18 coping SVII13240 Sec VII - Zone D - seawall parapet: Construct seawall 17-Jul-18 25 16-Jun-18 parapet Promenade Footpath SVII10440 Sec VII - section 1 footpath - drainage works : connection 10-May-18 21-May-18 10 pipe & U -channel SVII10445 Sec VII - section 1 footpath - watermain 7 23-May-18 30-May-18 SVII10460 Sec VII - section 1 footpath - lighting 31-May-18 07-Jun-18 SVII12615 Sec VII - section 2 footpath - watermain 7 12-Apr-18 19-Apr-18 SVII12630 Sec VII - section 2 footpath - utilities: TCSS 21 20-Apr-18 15-May-18 SVII12670 Sec VII - section 2 footpath - paving block 30 16-May-18 21-Jun-18 SVII12850 Sec VII - section 3 footpath - watermain 26-Mar-18* 18-Apr-18 17 Sec VII - section 3 footpath - utilities (HEC, TCSS, HGC, SVII12870 40 19-Apr-18 06-Jun-18 PCCW) SVII12875 Sec VII - 3 footpath - drainage works :U chanel 14 07-Jun-18 23-Jun-18 SVII13110 Sec VII - section 4 footpath - paving block 19-Jun-18 25 19-May-18 SVII13275 Sec VII - section 5 footpath - watermain 14 07-Apr-18 23-Apr-18 SVII13310 Sec VII - section 5 footpath - utilities: HEC, TCSS, HGC, 42 24-Apr-18 13-Jun-18 PCCW SVII13330 Sec VII - section 5 footpath - paving block 22 14-Jun-18 11-Jul-18 SVII13510 Sec VII - section 6 footpath - watermain 13 29-Mar-18 17-Apr-18 SVII13514 Sec VII - section 6 footpath - U channel 20 18-Apr-18 11-May-18 Sec VII - section 6 footpath - utilities: HEC, TCSS, HGC, SVII13530 49 18-Apr-18 15-Jun-18 PCCW SVII13550 Sec III A - section 6 footpath - paving block 17-Jul-18 25 16-Jun-18 Section VIII - Landscape Softworks Soft Landscaping Works SVIII10040 Sec VIII - Trees Planting 21-Oct-18 141 03-Jun-18 SVIII10060 Sec VIII - Shrubs Planting 141 03-Jun-18 21-Oct-18



tivity ID	Activity Name	Rem	Start	Finish				2018 April May							
		Dur			י 1	8 25	01		A 08 [iprii 15	22	29	06	13 Nay	
3MRP (Ma	r 2018 - Jun 2018)						1								
10 - SECTI	ON X OF THE WORKS														
10.3 - Middle	e Bridge (Bridge F)														
10.3.2 - Brid	ge Construction														
Bridge F1B	2														
1032-3880	Bridge F1B2 - Construct Int. Double Noise Encl. Bridge F1B2	9	13-Jan-18 A	29-Mar-18			Bridge I	F1B2 - C	Constru	uct Int. Do	ouble Noise	Encl. Bri	idge F1B2	 !	
1032-3900	Bridge F1B2 - Bridge F1C Deck Road Waterproofing, Surfacing & Marking	7	31-Mar-18	10-Apr-18					Bridg	ge F1B2 -	Bridge F1C	Deck F	Road Wate	ər pr oofin	
Bridge F1B	1														
1032-1780	Bridge F1B1 - Construct Int. Double Noise Encl. Bridge F1B2	9	16-Jan-18 A	29-Mar-18			Bridge I	F1B1 - C	Constru	uct Int. Do	ouble Noise	Encl. Bri	idge F1B2	<u>)</u>	
1032-1800	Bridge F1B1 - Bridge F1C Deck Road Water proofing, Surfacing & Marking	7	31-Mar-18	10-Apr-18					Bridg	ge F1B1 -	Bridge F1C	beck F	Road Wate	ər pr oofin	
Bridge F5															
1032-4080	Cutting of Deck Between Temp. TD & E/B > Pier F11-F14	6	19-Mar-18 A	26-Mar-18		Cu	tting of D	eck Betv	ween T	Гетр. TD	& E/B > Pie	F11-F	14		
1032-4120	Construction Parapet (Northside) > Pier F8-F11	2	15-Mar-18 A	21-Mar-18	╞┻┫╸	Construct	on Parap	et (Nort	thside)	> Pier F8	3-F11				
1032-4140	Construction Parapet (Northside) > Pier F11-F14	8	22-Mar-18	31-Mar-18			Con:	struction	n Parap	oet (North	side) > Pier	E11-E1	4		
1032-4160	Construct Noise Enclosure (Northside) > Pier F5 - F8	10	15-Mar-18 A	31-Mar-18			Con:	struct No	oise Er	nclosure ((Northside) :	> Pier F	5 - F8		
1032-4180	Reinstate Deck Pier F8 - F14 (Northside) > Surfacing & Marking	5	03-Apr-18	09-Apr-18					Reinst	tate Deck	Pier F8 - F	14 (Nort	thside) > S	Surfacing	
1032-4200	Reinstate Deck Pier F5 - F8 (Northside) > Surfacing & Marking	5	10-Apr-18	14-Apr-18						Reinstat	te Deck Pier	; F5 - F8	3 (Northsia	de) > Su	
All Middle E	Bridge F (Common)														
	Fresh Water Main 150 DI at Bridge F Deck	20	27-Nov-17 A	14-Apr-18						Fresh V	√aterMain 1	50 DI at	Bridge F [Deck	
1032-4356		30	22-Feb-18 A	26-Apr-18									ry (DS06B		
10.5 - Tempo															
	porary Bridge 'TD'														
1053-1140	Demolition of Temporary Bridge "TD" at VI	32	14-Apr-18	22-May-18											
	Approach Ramp			10											
	roach Ramp (Excluding Portion IIB)														
	Valis & Trough Structure B,C & D														
1061-6860		20	06-Mar-17 A	25-Apr-18			1				Con		Retaining V		
		29											retaining v		
1061-6900		15	12-Mar-18 A	14-May-18											
1061-6990		15	14-Mar-18 A	31-May-18			_				. .				
1061-7020		8	29-Jan-18 A	28-Mar-18			Falsewoi			Landsca					
1061-7040		7	29-Mar-18	09-Apr-18					Excav	ate for Fo	oundation of				
1061-7060		15	10-Apr-18	26-Apr-18							Co	nstruct	Retaining	WallDF	
1061-7080		18	27-Apr-18	18-May-18											
1061-7100		12	19-May-18	01-Jun-18											
1061-7120	Excavate to Founding Level Trough B Structure	12	31-Mar-18	16-Apr-18						Exca	vate to Four	iding Le	vel Trougl	n B Struc	

Remaining Level of Effort
 Remaining Work

 Actual Level of Effort Actual Work

Critical Remaining Work Milestone •

Contract HY/2009/19 Three Months Rolling Programme (20.Mar.2018 to 19.Jun.2018)

May				June		
13	20	27	03	10	17	24
		1				
ofing, S	Surfacing 8	& Marking	1			
ofing, S	Surfacing 8	& Marking]			
		1				
cing &	Marking					
Surfac	ing & Mar	king				
164 & F	ADS06) (I	Niath wor	k)			
	Den Den	nolition of	Temporary	Bridge "TD)" at VI	
Pilo (ap (7 nos)					
			E1 (Ch 53			
			Parapet at V	Wall above	Retaining	Wall E
D Foo	ting (Ch 1	90 - 170)				
			g Wal D (C	h 190 - 170))	
					• /	
L			Backfilling	VVOIKS		
structur	e					
				Page 1	of 3	
			1			

Act	tivity ID	Activity Name	Rem	Start	Finish								2018
			Dur			ו 18	25	01	08	April 15	22	29	Ma <u>v</u> 06 13
	1061-7140	Construct Trough Structure B Base Slab	18	17-Apr-18	08-May-18		•		•	•		<u>.</u>	Construct
	1061-7160	Construct Trough Structure B Side Walls	18	09-May-18	29-May-18								
	1061-7180	Excavate to Founding Level Trough C Structure	12	10-Apr-18	23-Apr-18			1 1 1 1			Exca	vate to Fo	ounding Level Trou
	1061-7200	Construct Trough Structure C Base Slab	15	24-Apr-18	11-May-18			1 1 1 1					Constr
	1061-7220	Construct Trough Structure C Side Walls	18	10-May-18	30-May-18			1 1 1 1					
	1061-7240	Road & other Misc Works at Trough D	12	02-Jun-18	15-Jun-18			 , ,					
	Landscape I	Deck						1 1 1 1					
	1061-7460	Ch 5331 - 5419 > Beam & Deck	14	19-Feb-18 A	07-Apr-18			I I I	Ch 53	31 - 5419 >	Beam & D	eck	
	1061-7480	Ch 5303 - 5419 > Noise Panel Installations	32	19-Apr-18	26-May-18			1 1 1 1					
	10.6.2 - Appro	pach Ramp (Within Portion IIB)						1 1 1 1					
	Structure							 					
	Bay 1							1 1 1 1					
	Wall - Upp	er Portion											
	A1220	Remove S1 and S2 Strut + Waling	4	03-Apr-18	07-Apr-18				Remov	ve S1 and S	S2 Strut + V	Waling	
	A1260	Vertical Water Proofing	2	09-Apr-18	10-Apr-18				🗖 Ve	ertical Wate	r Proofing		
	Bay 2												
	Wall - Upp	er Portion											
	A1380	Remove S1 and S2 Strut + Waling	4	03-Apr-18	07-Apr-18				Remov	ve S1 and S	S2 Strut + V	Waling	
	A1420	Vertical Water Proofing	2	09-Apr-18	10-Apr-18				🔲 Ve	ertical Wate	r Proofing		
	Bay 3												
	Wall - Upp	er Portion											
	A1540	Remove S1 and S2 Strut + Waling	4	03-Apr-18	07-Apr-18				Remo	ve S1 and S	S2 Strut + V	Waling	
	A1580	Vertical Water Proofing	2	09-Apr-18	10-Apr-18			1 1 1 1	🔲 Ve	ertical Wate	r Proofing		
	Bay 4							1 1 1 1					
	Wall - Upp	er Portion						1 1 1 1					
	A1710	Remove S1 and S2 Strut + Waling	4	03-Apr-18	07-Apr-18				Remov	ve S1 and S	S2 Strut + V	Waling	
	A1750	Vertical Water Proofing	2	09-Apr-18	10-Apr-18			1 1 1 1	🗖 Ve	ertical Wate	r Proofing		
	Bay 5							1 1 1 1					
	Wall - Low	rer Portion						1 1 1 1					
	A1830	Erect and Formwork	3	19-Mar-18 A	22-Mar-18		Erect and F	ormwork					
	A1840	Concreting	1	23-Mar-18	23-Mar-18		Concretin	ģ					
	A1850	Vertical Water Proofing	1	24-Mar-18	24-Mar-18		Vertical	ī 1	ofing				
	A1860	Backfilling	3	26-Mar-18	28-Mar-18		🔲 Ba	1	č				
	Wall - Upp												
	A1870	Remove S1 and S2 Strut + Waling	4	03-Apr-18	07-Apr-18				Remov	ve S1 and S	S2 Strut + 1	Walina	
								1		unu c		1	

Remaining Level of Effort Remaining Work	Contract HY/2009/19
Actual Level of Effort Critical Remaining Work	
Actual Work	Three Months Rolling Programme (20.Mar.2018 to 19.Jun.2018)

Мау				June		
13	20	27	03	10	17	24
struct Trou	gh Struct	ure B Bas				
			nstruct Tro	ugh Structu	re B Side	Walls
			2		0100	
el Trough (C Structur	e				
Construct	Trough St	ructure C	Base Slab	1		
			onstruct Ir	ough Struc	lure C Sid	ie waiis
					Road & ot	her Mise
		Ch 530	3 - 5419 > l	Noise Pane	l Installati	ons
		1				
				Page 2	of 3	
)				1 ago 2		

tivity ID	Activity Name	Rem	Start	Finish							2018	
		Dur		1	10 05	0.1		April				May
A1880	Erect Working Platform and Rebar Fixing	2	24-Mar-18	26-Mar-18	18 25 Erect;	01 Working	08 Platform a	15 Ind Rebar	22 Fixing	29	06	13
A1890	Erect and Formwork	3	27-Mar-18	29-Mar-18	— E	rect and	Formwork					
A1900	Concreting	1	31-Mar-18	31-Mar-18	0	Concre	ting					
A1910	Vertical Water Proofing	2	09-Apr-18	10-Apr-18			🗖 Ver	tical Wate	er Proofing			
Landscape	Deck											
1062-1240	Construct LD Column - Portion IIB (10nos)	9	12-Mar-18 A	29-Mar-18		onstruct	LD Colum	n - Portior	n IIB (10nos)		
1062-1260	Construct Landscape Deck Beam/Slab Bay C1 & C2	18	14-Mar-18 A	12-Apr-18				Construct	Landscape	Deck Be	eam/Slab I	Bay C1 &
1062-1280	Construct Noise Panel Trough A (within Portion IIB)	30	20-Apr-18	25-May-18								
Road Works												
1062-1300	Approach Ramp Road Drainage (within Portion IIB)	24	12-May-18	08-Jun-18								
1062-1320	Approach Ramp Profile Barrier (within Portion IIB)	24	12-May-18	08-Jun-18								
1062-1340	Approach Ramp Street Furniture (within Portion IIB)	24	12-May-18	08-Jun-18								
1062-1360	Approach Ramp TCSS/E&M Ducts and Supports (within Portion IIB)	24	12-May-18	08-Jun-18								
1062-1380	Approach Ramp Road Surfacing & Marking (within Portion IIB)	10	09-Jun-18	21-Jun-18								

Actual Level of Effort Actual Work

♦ ♦ Milestone

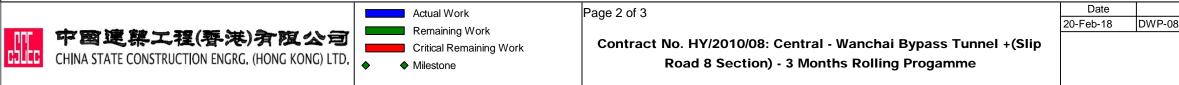
Contract HY/2009/19 Three Months Rolling Programme (20.Mar.2018 to 19.Jun.2018)

lay				June		
ay 3	20	27	03	10	17	24
I & C2	2	Constru	uct Noise Pa	nel Trough	A (within I	Portion I
				Approach Approach		
				Approach		
				Approach	-	
		1			A	pproact

	MU59				SR8 - Layout fo		11 _2100_02					
ID	Activity Name	Original Duration		Finish					· · · · ·	2018		
otal		1876d	21-Mar-13 A	21-Jun-18	Feb	. 1	Mar				A	Apr
	Update Progress As of 20 Feb 18	1876d	21-Mar-13 A	21-Jun-18				1 1 1				
/orks in KD8		24d	05-Feb-18 A	27-Feb-18A				 				
TS3W - Remove	e Temporary Reclamation	24d	05-Feb-18 A	27-Feb-18A				1 1 1				
	ve D-wall W4D13, 14 & W4D12, W4D15 - 16 + W3D8 - W3D11 & Seawall Reinstatemer	t 24d	05-Feb-18 A	27-Feb-18A				<u> </u> 				
	t of Remaining Vertical Seawall by Land Plants	24d	05-Feb-18 A	27-Feb-18A				1 1 1				
	Pour concrete behind 5th layer of facing stone	1d	05-Feb-18 A	05-Feb-18A	te behind 5th layer of fa	icing sta	one					
MW_1630	Erect Formwork for coping	3d	06-Feb-18 A	09-Feb-18A	t Formwork for coping							
MW_1640	Pour concrete for coping	1d	10-Feb-18 A	10-Feb-18A	ur concrete for coping			- - - -				
MW_1660	Lay footpath paving blocks	4d	11-Feb-18 A	14-Feb-18A	Lay footpath pavir		ks					
 MW_1650	Backfill up to formation level (6 layers)	13d	26-Feb-18 A	27-Feb-18A		()	Backfill up to formation level (6 la	vers)				
orks in KD6		132d	30-Aug-17 A	20-Mar-18		\neg						
	Open Cut Method)	132d	30-Aug-17 A	20-Mar-18								
-	Ch. 528 to Ch. 368	74d	30-Aug-17 A	20-Mar-18				 				
Zone C - Tunn		74d	30-Aug-17 A	20-Mar-18				 				
		74d	30-Aug-17 A	20-Mar-18				 				
Egress Passa	Steel Railing - Fabrication & Installation		30-Aug-17 A	20-Mar-18				Stool	- Poiling Fobri	ication & Installatior		
		74d	-					Siee	Railing - Fabri			
	Ch.385.000 to Ch.317.500 - (Inside Victoria Park to Tunnel Portal)	16d	21-Feb-18 A	16-Mar-18								
	Tunnel - ELS / CCT / BF Works (7 Bays Ch. 385.000 to Ch.317.500)	16d	21-Feb-18 A	16-Mar-18				 				
Portal Structu		16d	21-Feb-18 A	16-Mar-18				 				
Pump House		7d	21-Feb-18 A	28-Feb-18 A				1				
	Works inside Pump Sump E	7d						1				
Pump Sum	np E Hand Rail											
EXW_2530	0 Installation of handrail (agreed with CC contract)	7d	21-Feb-18 A	28-Feb-18 A			Installation of handrail (agreed	with CC contr	act)			
Remaining V	Vorks in Zone B	15d	28-Feb-18 A	16-Mar-18								
Egress Pass	sage	15d	28-Feb-18 A	16-Mar-18								
EXW_2550	Railing installation (2 nos 10m)	15d	28-Feb-18 A	16-Mar-18		l		Railing instal	ation (2 nos	10m)		
orks in KD9 (Ir	nclude Re-provisioning Works of KD4,KD5)	185d	23-Oct-17 A	15-May-18				- - - - -				
xternal Works	s Under KD9	185d	25-Oct-17 A	15-May-18				1				
Zone 1		90d	15-Dec-17 A	27-Mar-18								
Drainage Align	ment Confirmation for MH72, 73, 74 due to Tree T1106	90d	15-Dec-17 A	27-Mar-18								
EXW_1125	Drawing Confirmation and construction for MH2-74A and asociated drainage	8d	15-Dec-17 A	25-Mar-18		<u> </u>		;	Drawing (Confirmation and co	onstruction	i for MH2-7
EXW_1145	Pedestrian walkway open to public during Christmas and CNY	90d	23-Jan-18 A	27-Mar-18					Pedes	strian walkway ope	n to public	during Chri
Zone 2		35d	25-Oct-17 A	04-Apr-18								
EXW_1890	Irrigation system construction	15d	25-Oct-17 A	04-Apr-18				-		Irrigation	n system ço	onstruction
EXW_1880	Boundary fence Installation	30d	01-Nov-17 A	04-Apr-18						Boundar	ry fence Ins	stallation
Zone 3		35d	03-Mar-18	16-Apr-18				 				
Traffic Island		35d	03-Mar-18	16-Apr-18								
EXW_2050	Directional sign DS17 steel frame	7d	03-Mar-18*	10-Mar-18			Directional	sign DS17 st	el frame			
EXW_2060	New VMS6 steel frame	7d	12-Mar-18	19-Mar-18				New V	MS6 steel fram	e		
EXW_2070	TCSS and lighting at island	7d	20-Mar-18	26-Mar-18					TCSS a	and lighting at island	ł	
EXW_2080	JTIS (3 nos. footings, 1 no. concrete plinth)	14d	27-Mar-18	16-Apr-18								JTIS (
Zone 4 up to El	derly Facilities	90d	30-Jan-18 A	15-May-18								
						;		<u>;</u>	:	<u> </u>	<u> </u>	
		ual Work		Page	1 of 3							Date
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ity ID	Activity Name	Original Duration	Start	Finish	2018	
Elderly Facilities	V/039 Received on 22 Jun 2017	90d	30-Jan-18 A	15-May-18	Feb Mar Apr	
EXW_2270	Facilities fabrication	90d	30-Jan-18 A	15-May-18		
Additional Walkw	ay & Arbour V/040 Received on 22 Aug 2017	60d	15-Feb-18 A	12-Apr-18		
EXW_2300	Arbour confirmation and fabrication	60d	15-Feb-18 A	16-Mar-18	Arbour confirmation and fabrication	
EXW_2310	Assiciated drainage works for the walkway	20d	17-Mar-18	12-Apr-18	Assiciate	ed drainage works
Reverting Traffic f	or IEC,VP Rd & TF St & Seawall Reinstatement (KD9)	98d	18-Jan-18 A	05-May-18		
TTA Revert Traffic	Back to Original Alignment	86d	18-Jan-18 A	23-Apr-18		
East Bound TTA -	- IEC East Bound, Victoria Park Road & footpath along Sea Side	45d	31-Jan-18 A	05-Apr-18		
TTM Stage 1 - IE	C (East Bound)	6d	28-Feb-18	05-Mar-18		
Reinstatemtme	nt Existing Structure	6d	28-Feb-18	05-Mar-18		
EB_1020	Install metal parapet on parapet wall (30m)	6d	28-Feb-18	05-Mar-18	Install metal parapet on parapet wall (30m)	
TTM Stage 2 - Re	evert Traffiic back to Original Victoria Road	4d	06-Mar-18	09-Mar-18		
Existing Bridge	Pararpet Reinstatement	4d	06-Mar-18	09-Mar-18		
EB_1180	Install metal parapet on parapet wall (40m)	4d	06-Mar-18	09-Mar-18	Install metal parapet on parapet wall (40m)	
	einstatement of Footpath along Seafront	45d	31-Jan-18 A	05-Apr-18		
	Works in Traffic Deck Part A	31d	31-Jan-18 A	19-Mar-18		
EB_1540	Break two concrete footings	2d	31-Jan-18 A	16-Mar-18	Break two concrete footings	
EB_1520	Break pipe piles and cut sheet pile	6d	10-Feb-18 A	26-Feb-18A	Break pipe piles and cut sheet pile	
EB 1530	Backfill Subbase material up to Formation Level (Avg. 1.5m height, by SRT method of 0.3m	3d	17-Mar-18	19-Mar-18	Backfill Subbase material up to Formation Level (Avg. 1.	5m height by SRT
	each lavers lavers) of Existing Gas Main	17d	20-Mar-18	05-Apr-18		
EB_1560	Excavation for DN400mm Gas main	3d	20-Mar-18	22-Mar-18	Excavation for DN400mm Gas main	
EB_1500	Laving DN400mm gas main by HKCG at VPR footpath	14d	23-Mar-18	05-Apr-18	Laving DN400mm gas	
	C West Bound & Tsing fung Street	86d	18-Jan-18 A	23-Apr-18		
			28-Feb-18	04-Mar-18		
	evert Traffic back to Original Tsing Fung Street	5d				
	Pararpet Reinstatement	5d	28-Feb-18	04-Mar-18		
IECW_1140	Install metal parapet on parapet wall (60m)	5d	28-Feb-18	04-Mar-18	Install metal parapet on parapet wall (60m)	
	einstatement of Victoria Park	86d	18-Jan-18 A	23-Apr-18		
	Works in Traffic Deck	48d	18-Jan-18 A	16-Mar-18		
IECW_1390	Cut pipe piles and sheet pile	5d	18-Jan-18 A	13-Mar-18	Cut pipe piles and sheet pile	
IECW_1400	Backfill General Fill Material up to Formation Level (Avg. 1.5m height, by SRT method of 0.3m each laver, 5 lavers)	3d	14-Mar-18	16-Mar-18	Backfill General Fill Material up to Formation Level (Avg, 1.5m	height, by SRT me
Reinstatement	Works inside Victoria Park	60d	29-Jan-18 A	23-Apr-18		
IECW_1440	Reinstatement of Boundary Fence	21d	29-Jan-18 A	17-Mar-18	Reinstatement of Boundary Fence	
IECW_1460	Cutting sheet pile to 1.5m below finish slope profile (MS 169B)	10d	19-Mar-18	28-Mar-18	Cutting sheet pile to 1.5m below finish s	slope profile (MS 1
IECW_1470	Slope Reinstatement of Victoria Park	21d	26-Mar-18	23-Apr-18		Slope
Completion of Min	nor Outstanding / Remaining Works for KD9	67d	28-Feb-18	05-May-18		
West Bound - Cor	mpletion of Minor Outstanding / Remaining Works for KD9	67d	28-Feb-18	05-May-18		
Minor Reinstater	ment Works for Tsing Fung Street	13d	18-Mar-18	30-Mar-18		
IECW_1530	Laying Public Lighting duct	6d	18-Mar-18	23-Mar-18	Laying Public Lighting duct	
IECW_1540	Installation of public lighting post and connection by HyD	7d	24-Mar-18	30-Mar-18	Installation of public lighting post ar	nd connection by H
IECW_1550	Well compact road formation level and subbase for SRT	6d	24-Mar-18	29-Mar-18	Well compact road formation level ar	nd subbase for SR
Minor Reinstater	ment Works in IEC West Bound	67d	28-Feb-18	05-May-18		
IECW_1600	Replacement of new movement joint at IEC W/B (Sun midnight only)	8d	28-Feb-18	07-Mar-18	Replacement of new movement joint at IEC W/B (Sun midnight only)	
	Repairing of 300 dia. concrete pipeline by lining under slow lane of IEC W/B	2d	28-Feb-18*	01-Mar-18	Repairing of 300 dia. concrete pipeline by lining under slow lane of IEC W/B	
IECW_1630						1



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	Activity Name	Original Duration	Start	Finish			2018				
rks in Victoria Pa	ark (KD4, KD5, KD9)	155d	23-Oct-17 A	24-Apr-18	Feb		Mar	Apr		May	
-Provisioning Wor				24-Apr-18							
rsery Compound		155d		24-Apr-18						 	
ursery compound			23-Oct-17 A								
BWF				24-Apr-18 29-Mar-18							
Finishes & Water	raroofing			29-Mar-18							
	External wall tile cleaning	3d		20-Mar-18			External wall tile cleaning				
	Painting to wall & ceiling in general (final coat)	30 4d	15-Mar-18*	19-Mar-18			Painting to wall & ceiling in general (final coat)				
	t-out Frame & Chequer Plate	4d	13-Feb-18 A	19-Mar-18							
VP_NC_1690		1d	13-Feb-18 A	14-Feb-18A							
	Installation		21-Feb-18 A		installation	┨					
Signage	Installation			ļ.		Inci					
VP_NC_1720			21-Feb-18 A			Inst	lallation				
Metal Fence	lostallation	27d	15-Jan-18 A	29-Mar-18							
VP_NC_1820		30d	15-Jan-18 A	29-Mar-18							
8M	Form WD4 submission	14d	09-Feb-18 A	14-Feb-18A							
	Form WR1 submission	7d	09-Feb-18 A	13-Feb-18A	Form WR1 submission						
	Expected power on date	7d	14-Feb-18 A	14-Feb-18A	Expected power on da	116					
Fire Srevices		43d	22-Dec-17 A	10-Mar-18							
	Pump and water pipe installation	10d	22-Dec-17 A	10-Mar-18			Pump and water pipe installation				
	Hose Reel installation, Breakglass and Alarm	3d	10-Feb-18 A	13-Feb-18A	Hose Reel installation B	-					
	FS pipe connection from u/g to water meter room	2d	24-Feb-18 A	28-Feb-18A		FS	pipe connection from u/g to water meter room				
	shing Water Supplies	14d	30-Jan-18 A	15-Mar-18							
	Cleaning of potable water pipe and sampling to WSD	7d	17-Feb-18 A	26-Feb-18 A		Cleani	ng of potable water pipe and sampling to WSD				
VP_NC_2100	WSD Inspection	14d	28-Feb-18	15-Mar-18			WSD Inspection				
GRP Water Tank		7d	30-Jan-18 A	06-Feb-18 A							
VP_NC_2130	Final As-fitted drawing submisison to WSD	7d	30-Jan-18 A	06-Feb-18A	ted drawing submisison to V	vsd					
xternal Works As	side Nursery Compound	75d	30-Jan-18 A	24-Apr-18							
Drainage =		45d	30-Jan-18 A	16-Mar-18							
VP_NC_2150	U channel at toilet	2d	30-Jan-18 A	31-Jan-18 A							
VP_NC_2190	SS angle to shower room u channel	1d	31-Jan-18 A	31-Jan-18 A	om u channel	-					
VP_NC_2140	Drainage work at External area	15d	28-Feb-18	16-Mar-18			Drainage work at External area				
Water Works		15d	07-Feb-18 A	27-Feb-18A							
VP_NC_2220	FS Fresh & Salt Water, Fresh Water and Irrigation System	15d	07-Feb-18 A	27-Feb-18A		FSF	resh & Salt Water, Fresh Water and Irrigation System				
External Works A	Around Nursery Comnpound	45d	28-Feb-18	24-Apr-18							
VP_NC_2250	Reinstatement of Existing Boundary Fence Wall Around Nursery Compound	45d	28-Feb-18	24-Apr-18					Reinstatement of Existing Boundary Fe	ence Wall Around N	Nursery
- Preservation	and Protection of Trees	1088d	21-Mar-13 A	21-Jun-18							
_0000 I	Preservation and Protection of Existing Trees	1088d	21-Mar-13 A	21-Jun-18							
i & KD8 - Moorir	ng Components Upkeep (CBTS and ATS)	979d	15-May-14 A	28-Feb-18						 	
_3020	Mooring Upkeep at Portion X(10) & XVI(16) - CBTS	979d	15-May-14 A	28-Feb-18			poring Upkeep at Portion X(10) & XVI(16) - CBTS				

中國連幕工程(4
CHINA STATE CONSTRUCTION