

#### 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-364/2009/E, FURTHER EVIRONMENTAL PERMIT NOS. FEP-01/364/2009, FEP-02/364/2009, FEP-05/364/2009/A, FEP-06/364/2009/A, FEP-07/364/2009/D, FEP-09/364/2009/B, FEP-10/364/2009/B AND FEP-11/364/2009/E, FEP-12/364/2009/D

#### **MONTHLY ENVIRONMENTAL MONITORING & AUDIT REPORT**

- FEBRUARY 2018 -

CLIENTS:

Civil Engineering and Development Department

and

**Highways Department** 

#### PREPARED BY:

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**CERTIFIED BY:** 

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Raymond Dai Environmental Team Leader

DATE:

3 March 2018



Ref.: AACWBIECEM00\_0\_10257L.18

13 March 2018

By Post and Fax (2691 2649)

AECOM Asia Company Limited 11/F, Tower 2 Grand Central Plaza 138 Shatin Rural Committee Road Shatin, New Territories Hong Kong

Attention: Mr. Conrad Ng

Dear Mr. Ng,

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

### Monthly Environmental Monitoring and Audit Report (February 2018) for EP-364/2009/E, FEP-01/364/2009, FEP-02/364/2009, FEP-05/364/2009/A, FEP-06/364/2009/A, FEP-07/364/2009/D, FEP-09/364/2009/B, FEP-10/364/2009/B, FEP-11/364/2009/E and FEP-12/364/2009/D

Reference is made to the Environmental Team's submission of the captioned Monthly Environmental Monitoring and Audit (EM&A) Report for February 2018 received by email on 13 March 2017 for our review and comment.

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

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

Yours sincerely,

David Yeung Independent Environmental Checker

c.c.	HyD	Attn: Mr. Tony Cheung	by fax: 2714 5289
	CEDD	Attn: Mr. LAM Chi Keung	by fax: 2301 1277
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## EXECUTIVE SUMMARY

- This is the Environmental Monitoring and Audit (EM&A) Monthly Report February 2018 specific for Environmental Permit no. EP-364/2009/E, Further Environmental Permit nos. FEP-01/364/2009, FEP-02-364/2009, FEP-05/364/2009/A, FEP-06/364/2009/A FEP-07/364/2009/D, FEP-09/364/2009/B, FEP-10/364/2009/B, FEP-11/364/2009/E and FEP-12/364/2009/D. The EM&A report is prepared by the Environmental Team (ET) employed under Contract No. HK/2015/01 Wan Chai Development Phase II and Central Wanchai Bypass Sampling, Field Measurement and Testing Works (Stage 3). This report presents the environmental monitoring findings and information recorded during the period of 27 January 2018 to 26 February 2018.
- ii. The implementation of the Environmental Monitoring and Audit Programme for the Wan Chai Development phase II and Central-Wan Chai Bypass Project has been taken over by the Lam Geotechnics Limited (LGL) under Contract HK/2015/01 – Wan Chai Development Phase II and Central Wanchai Bypass – Sampling, Field Measurement and Testing Works (Stage 3) from 27 December 2015 in continuation of the previous Environmental Team employed under Contact HK/2011/07 – Wan Chai Development Phase II and Central Wanchai Bypass – Sampling, Field Measurement and Testing Works (Stage 2).
- iii. In the reporting period, the principal work activities of individual contracts are included as follows:

Contract no. HY/2009/18 - Central - Wan Chai Bypass (CWB) - Central Interchange under FEP-05/364/2009/A

- Landscaping works
- Maintenance works

<u>Contract no. HK/2009/01 - Wan Chai Development Phase II - Central - Wan Chai Bypass at</u> Hong Kong Convention and Exhibition Centre - Tunnel Works under FEP-02/364/2009

• Reinstatement of amenity area

Contract no. HK/2009/02 - Wan Chai Development Phase II - Central - Wan Chai Bypass at Wan Chai East (CWB Tunnel) under FEP-01/364/2009

- outstanding Works at Ferry Pier (Stage 2)
- construction of permanent EVA adjacent to Wan Chai Ferry Pier
- Preparation for raising the vent shaft, water meters chambers and multi-part covers of P7, P8 and P9
- remedial works inside tunnel
- Removal of Temporary Bridges 1, 2 and 3 Preparation work for removal of TWCR4
- Fabrication of seawall blocks
- Backfilling behind seawall block
- Formwork for Culvert O bay 15A base slab 2018.
- Steel fixing for Culvert O Bay 15A base slab
- Remedial works inside tunnel
- Rectification of defect and outstanding works were ongoing



- Construction of surface drain at WCR3 was completed on 12 February 2018.
- Preparation for installation of surface drain cover
- Remaining backfilling works at surface drain trench
- Remedial works for 0.5T rock armor
- Sewage works at Wan Shing Street

## Contract no. HY/2009/19 - Central - Wanchai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link under FEP-07/364/2009/D

- Approach ramp structure Construction.
- Bridge Construction & installation of enclosure.
- Retaining wall construction.
- FEHD depot re-provision works.
- Oil street drainage works.
- Installation of skin parapet on TB bridge at Pier 15-17.
- Landscape deck, column & pile cap foundation works.
- Watson Road Watermains laying works.
- EVA at EVB.
- Hing Fat Street road and drainage works

## <u>Contract no. HK/2012/08 – Wan Chai Development Phase II – Central- Wan Chai Bypass at</u> <u>Wan Chai West under FEP-12/364/2009/D</u>

- Construction of Slip Road 1
- Construction of drainage
- Asphalt paving
- Sewer diversion

# Contract no. HY/2010/08 –Central - Wan Chai Bypass (CWB) –Tunnel (Slip Road 8) under FEP-10/364/2009/B

- Tree protection works next to existing BGO,
- Drainage improvement works,
- Utility diversion works,
- Retaining wall works
- ELS works,
- Construction works for subway extension

#### <u>Contract no. HY/2011/08 – Central - Wan Chai Bypass (CWB) – Tunnel Buildings, Systems</u> and Fittings, and Works Associated with Tunnel Commissioning under FEP-11/364/2009/E

- Construction of Ventilation Buildings, inclusive of Administration Building, Central Ventilation Building, East Ventilation Shaft/Building, West Ventilation Building
- Construction of Tunnel Thermal Barrier
- Installation of Electricals and Mechanicals
- Installation of Tunnel Features



### Noise Monitoring

- iv. Noise monitoring during daytime was conducted at M1a Footbridge for Harbour Road Sports Center; M2b - Noon-day gun area; M3a - Tung Lo Wan Fire Station; M4b - Victoria Center; M5b - City Garden, M6 - HK Baptist Church Henrietta Secondary School, M7e and M7w – International Financial Centre East Podium and International Finance Centre West Podium and M8 – City Hall on weekly basis in the reporting period.
- With respect to the shift in major construction site portions at Wan Chai North, the noise monitoring station M1a – Harbour Road Sports Centre was finely adjusted from East of Harbour Road Sports Centre to West of Harbour Road Sports Centre on 21 June 2016.
- vi. 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 for Harbour Road Sports for noise monitoring.
- vii. With respect to the non-CWB Project building construction at Oil Street, the real-time noise monitoring station RTN2a- Hong Kong Electric Centre was finely adjusted from Northeast Side to Northwestern side at Roof Top location on 03 March 2017.
- viii. One limit level exceedance was recorded at M1a Footbridge for Harbour Road Sports Center on 02 February 2018 and the exceedance was concluded as non-Project related.
- ix. 24-hour real time noise monitoring was conducted at RTN1 FEHD Hong Kong Transport Section Whitfield Depot. No limit level exceedance was recorded in the reporting period.
- x. 24-hour real time noise monitoring was conducted at RTN2a Hong Kong Electric Centre. No project related exceedance was recorded in the reporting period.
- xi. 24-hour real time noise monitoring was conducted at RTN3 Yu Lee Mo Fan Memorial School. Exceedance was recorded on 10 and 26 February 2018 in the reporting period. After the investigation, the exceedance was concluded as non-Project related.
- xii. 24-hour real time noise monitoring was conducted at RTN4 Causeway Bay Community Centre. No limit level exceedance was recorded in the reporting period.

#### Air Quality Monitoring

- xiii. 1-hour and 24-hour Total Suspended Particulates (TSP) monitoring were conducted at CMA1b – Harbour Grand Hotel Boundary Wall; CMA2a - Causeway Bay Community Center; CMA3a - CWB PRE Site Office Area; CMA4a – Society for the Prevention of Cruelty to Animals; CMA5b - Pedestrian Plaza; MA1e and MA1w – International Finance Centre eastern and western podium on every six days basis.
- xiv. With respect to the proposed demolition of eastern podium of Oil Street Site Office, the respective air quality monitoring station CMA1b – Oil Street Site Office was finely adjusted from East podium of the Oil Street Site Office to the West podium of the Oil Street Site Office on 21 December 2016.
- xv. With respect to the proposed demolition of the Oil Street Site Office, the respective air quality monitoring station CMA1b Harbour Grand Hotel Boundary Wall was finely adjusted from the Oil Street Site Office to Harbor Grand Hotel Boundary Wall from 05 June 2017 onwards.



#### Contract No. HK/2015/01 Wan Chai Development Phase II and Central Wanchai Bypass - Sampling, Field Measurement and Testing Works (Stage 3) Monthly EM&A Report (February 2018)

Lam Geotechnics Limited

#### Complaints, Notifications of Summons and Successful Prosecutions

xvi. One environmental complaints was received in the reporting period.

An ICC complaint referred by RSS was received by ET on 06 February 2018 (CASE#2-4459226093). The complainant reported that there is concern on an observed severely tilted tree with potential felling hazard. No fencing, no tree pit, trench and no irrigation pipe is observed.

ET confirmed with the Resident Site Staff that the concerned tree is within the works area of HY/2010/08 and one of the roots of the concerned tree (*Liquidambar formosana*) to have suffered minor damaged by the nearby excavation works. Remedial works including i) nylon reinforcement ropes has been added to the existing 3 nos. of tying cables and covering of the slope surface with wet hessian for protection were carried out for the damaged root of the tree.

In view of the nearby construction works, the Contractor is suggested to demarcate the tree protection zone for the concerned tree and fence off the tree protection zone to avoid further damage and placing of construction material, if feasible. The Contractor is also suggested to provide refreshment training for frontline works for tree protection, in particular, for trees retained of site in close proximity to active works front to avoid potential damage to retained trees.

#### Site Inspections and Audit

- xvii. The Environmental Team (ET) conducted weekly site inspections for Contract no. HY/2009/18, HY/2009/19, HY/2010/08, HK/2009/01, HK/2009/02, HK/2012/08 and HY/2011/08 in this reporting period.
- xviii. Construction of bored pile E3B under HY/2009/17 was confirmed completed and the respective work area under FEP-03/364/2009 was handover and inspected under HY/2009/19 from 19 Dec 2012 onwards.
- xix. Construction works under HK/2010/06 was confirmed completed and the respective work area under FEP-08/364/2009/A was handover and inspected under HK/2012/08 from 22 Sep 2014 onwards.
- xx. As confirmed with CWB RSS, the construction works under Contract HY/2009/15 was completed from 27 October 2017 onwards. The respective weekly site audit inspection for HY/2009/15 was therefore suspended from 27 October 2017 onwards.
- xxi. The Contractors rectified major observations and recommendations made during the audit sessions. No non-conformance was identified during the site inspections.



#### Future Key Issues

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

<u>Contract no. HY/2009/18 – Central – Wan Chai Bypass (CWB) – Central Interchange under</u> FEP-05/364/2009/A

• Maintenance works

<u>Contract no. HK/2009/01 – Wan Chai Development Phase II – Central – Wan Chai Bypass at</u> <u>Hong Kong Convention and Exhibition Centre – Tunnel Works under FEP-02/364/2009</u>

• Reinstatement of amenity area

Lam Geotechnics Limited

<u>Contract no. HK/2009/02 – Wan Chai Development Phase II – Central – Wan Chai Bypass at</u> <u>Wan Chai East (CWB Tunnel) under FEP-01/364/2009</u>

- Rectification work for the leakage of covered walkway at Expo Drive East
- Remedial works against water leakage for top slab soffit inside OHVD cells and tunnel base slab.
- Remaining works for Hung Hing Road Flyover Footpath associated works
- Fabrication and delivery of seawall blocks for wet condition from China
- Installation of breakwater
- Partial removal of TWCR4 to +2.5mPD
- Backfilling works
- Construction of box culvert 'O'
- Temporary works for construction of box culvert 'O'
- Remedial works against water leakage for top slab soffit inside OHVD cells and tunnel base slab.
- Backfilling works at Portion 5 up to updated finish level
- Remedial and Outstanding Works inside Tunnel
- Remedial works for damaged caisson seawall under C2
- Remedial works for damaged caisson seawall and CMS under C1
- Modification of levels of caisson seawall access, manhole covers and CMS draw pit covers.
- Construction of surface channel at potion 5
- Remedial work for 0.5 ton armor at WCR3
- Sewage works at Wan Shing Street.

<u>Contract no. HY/2009/19 – Central – Wanchai Bypass Tunnel (North Point Section) and</u> <u>Island Eastern Corridor Link under FEP-07/364/2009/D</u>

- Approach ramp structure Construction.
- Bridge Construction & installation of enclosure.
- Retaining wall construction.
- FEHD re-provision works.
- Oil Street drainage works.
- Installation of skin parapet on TB bridge at Pier 15-17.



- Lam Geotechnics Limited
- Landscape deck, column & pile cap foundation works.
- Watson Road Watermains laying works.
- EVA at EVB.
- Hing Fat Street road and drainage works.

## <u>Contract no. HK/2012/08 – Wan Chai Development Phase II – Central- Wan Chai Bypass at</u> Wan Chai West under FEP-12/364/2009/D

- Construction of Slip Road 1
- Construction of drainage
- Asphalt paving
- Sewer diversion
- Construction of roundabout

# <u>Contract no. HY/2010/08 –Central - Wan Chai Bypass (CWB) –Tunnel (Slip Road 8) under FEP-10/364/2009</u>

- Tree protection works next to existing BGO,
- Drainage improvement works,
- Utility diversion works,
- Retaining wall works
- ELS works,
- Construction works for subway extension

#### <u>Contract no. HY/2011/08 – Central - Wan Chai Bypass (CWB) –Tunnel Buildings, Systems</u> and Fittings, and Works Associated with Tunnel Commissioning under FEP-11/364/2009/E

- Construction of Ventilation Buildings, inclusive of Administration Building, Central Ventilation Building, East Ventilation Shaft/Building, West Ventilation Building
- Application of Thermal Barrier inside the Tunnel, asphalt pavement
- Installation of Electricals and Mechanicals
- Installation of Tunnel Features



### 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-364/2009/E and Further Environmental permit nos. FEP-01/364/2009, FEP-02-364/2009, FEP-05/364/2009/A, FEP-06/364/2009/A FEP-07/364/2009/D, FEP-09/364/2009/B, FEP-10/364/2009/B, FEP-11/364/2009/E and FEP-12/364/2009/D to implement the Environmental Monitoring and Audit (EM&A) programme as stipulated in the EM&A Manual of the approved Environmental Impact Assessment (EIA) Report for Wan Chai Development phase II and Central-Wan Chai Bypass (Register No.: AEIAR-125/2008) and in the EM&A Manual of the approved EIA Report for Central-Wan Chai Bypass and Island Eastern Corridor Link (Register No. AEIAR-041/2001).
- 1.1.2. This report presents the environmental monitoring and auditing work carried out in accordance to the Section 10.3 of EM&A Manual and "*Environmental Monitoring and Audit Requirements*" under Particular Specification Section 27.
- 1.1.3. This report documents the finding of EM&A works for Environmental Permit (EP) no. EP-364/2009/E, Further Environmental Permit (FEP) nos. FEP-01/364/2009, FEP-02-364/2009, FEP-05/364/2009/A, FEP-06/364/2009/A FEP-07/364/2009/D, FEP-09/364/2009/B, FEP-10/364/2009/B, FEP-11/364/2009/E and FEP-12/364/2009/D during the period 27 January 2018 to 26 February 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 Status of Regulatory Compliance summarizes the status of valid Environmental Permits / Licenses during the reporting period.
- Section 4 *Monitoring Requirements* summarizes all monitoring parameters, monitoring methodology and equipment, monitoring locations, monitoring frequency, criteria and respective event and action plan and monitoring programmes.
- **Section 5** *Monitoring Results* summarizes the monitoring results obtained in the reporting period.
- **Section 6 Compliance Audit** summarizes the auditing of monitoring results, all exceedances environmental parameters.



- Section 7 *Cumulative Construction Impact due to the Concurrent Projects* summarizes the relevant cumulative construction impact due to the concurrent activities of the concurrent Projects.
- **Section 8** *Environmental Site Audit* summarizes the findings of weekly site inspections undertaken within the reporting period, with a review of any relevant follow-up actions within the reporting period.
- Section 9 Complaints, Notification of summons and Prosecution summarizes the cumulative statistics on complaints, notification of summons and prosecution
- Section 10 Conclusion



## 2 PROJECT BACKGROUND

#### 2.1 Background

- 2.1.1. "Wan Chai Development phase II and Central-Wan Chai Bypass" and "Central-Wan Chai Bypass and Island Eastern Corridor Link" (hereafter called "the Project") are Designated 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. Design and Construction of Central Wan Chai Bypass and Island Eastern Corridor Link under the Project involves the construction and operation of a trunk road and its road tunnel more than 800m in length between portals that is shown at *Figure 2.1*.
- 2.2.2. The study area encompasses existing developments from Central to North Point. The scope of the Central-Wanchai Bypass (CWB) and Island Eastern Corridor Link (IECL) includes:
  - A dual three-lane trunk road, approximately 4.5 km in length, and tunnel approximately 3.7 km in length defined from the connection with the existing Rumsey Street Flyover in Central, through to a connection with the existing Island Eastern Corridor to the east of the Causeway Bay Typhoon Shelter (CBTS);
  - The Central Interchange near the Rumsey Street Flyover to provide road connections to the Central area;
  - Tunnel control buildings and ventilation buildings;
  - Slip roads to connect the CWB to the local road system in the Wan Chai North and Causeway Bay area;
  - Associated road lighting, road signing, traffic control and surveillance system; and
  - Other associated works.



2.2.3. The project also contains various Schedule 2 DPs that, under the EIAO, require Environmental Permits (EPs) to be granted by the DEP before they may be either constructed or operated. *Table 2.1* summarises the five individual DPs under this Project. *Figure 2.1* shows the locations of these Schedule 2 DPs.

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

## 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 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*.

Table 2.2	Details of Individual Contracts under the Project	
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Contract No.	Contract Title	Associated DP(s)	Construction Commencement Date
HY/2009/17	Central – Wan Chai Bypass (CWB) at FEHD Whitfield Depot – Advanced piling works.	DP1	5 October 2010 (Completed)
HY/2009/18	Central – Wan Chai Bypass (CWB) – Central Interchange	DP1	21 April 2011
04/HY/2006	Reconstruction of Bus Terminus near Man Yiu Street and Man Kwong Street	DP1	September 2010 (Completed)
HK/2009/01	Wan Chai Development Phase II – Central – Wan Chai Bypass at Hong Kong Convention and Exhibition Centre – Tunnel Works	DP1, DP2	25 August 2011



Contract No.	Contract Title	Associated DP(s)	Construction Commencement Date
HK/2009/02	Wan Chai Development Phase II – Central – Wan Chai Bypass at Wan Chai East(CWB Tunnel)	DP1	26 April 2011
HY/2009/15	Central-Wanchai Bypass – Tunnel (Causeway Bay Typhoon Shelter Section)	DP1,DP3	13 July 2011 (Completed)
HY/2009/19	Central – Wanchai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link	DP1	24 March 2011
HK/2010/06	Wan Chai Development Phase II- Central-Wan Chai Bypass over MTR Tsuen Wan Line	DP3	22 March 2011 (Completed)
HK/2012/08	Wan Chai Development Phase II- Central-Wan Chai Bypass at Wan Chai West	DP1,DP2, DP3	10 March 2014
HY/2010/08	Central- Wanchai Bypass Tunnel – Tunnel (Slip Road 8)	DP1, DP2, DP3	21 March 2013
HY/2011/08	Central - Wan Chai Bypass (CWB) – Tunnel Buildings, Systems and Fittings, and Works Associated with Tunnel Commissioning	DP1	8 October 2014

## 2.4 Project Organization and Contact Personnel

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

Party	Role	Post	Name	Contact No.	Contact Fax
AECOM	Engineer's Representative for WDII	Principal Resident Engineer	Mr. Frankie Fan	2587 1778	2587 1877
	Engineer's Representative for CWB	Principal Resident Engineer	Mr. Peter Poon	3912 3388	3912 3328
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 – CRGL Joint	Contractor under Contract	Site Agent	Mr. K.K. Yuen	3658-3002	2827 9996

 Table 2.3
 Contact Details of Key Personnel



Party	Role	Post	Name	Contact No.	Contact Fax
Venture	no. HK/2009/02	Project Manager	Mr. Paul Yu	3658 3085	
		Environmental Officer	Mr. C.P. Ho	9191 8856	
Chun Wo -	Contractor	Project Manager	Mr. David Lau	3758 8879	
CRGL - MBEC Joint	under Contract no. HY/2009/19	Site Agent	Mr. William Luk	9456 9819	
Venture		Deputy Site Agent	Mr. Andy Chan	3758 8879	
		Environmental Officer	Mr. M.H. Isa	3757 8218	2570 8013
		Assistant Environmental Officer	Mr. James Chan	3757 8217	
Leighton	Contractor	Site Agent	Mr. Jimmy Chu	3973 0803	2140 6799
Contractors (Asia) Limited	under Contract no. HY/2009/18	Construction Manager	Mr. Darren Grant	3971 1460	
		Environmental Supervisor	Ms. Penny Yiu	3973 1065	
China State	Contractor under Contract no. HY/2009/15	Project Director	Mr. Chris Leung	3557 6393	2865 5229
Construction Engineering		Site Agent	Mr. Patrick Ho	3557 6405	2566 2192
(HK) Ltd.		Environmental Officer	Mr. Desmond Ho	3557 6347	
China State-	Contractor under Contract no. HK/2012/08	Project Director	Mr. C.N. Lai	9137 1811	2877 1522
Build King JV		Site Agent	Mr. George Cheung	9268 1918	
		Environmental Officer	Mr. James MA	9130 9549	
China State	Contractor	Project Director	Chris Leung	9210 7116	2566 8061
	under Contract no. HY/2010/08	Site Agent	Mr. Thomas Lui	3557 6407	
		Environmental Officer	Mr. Gabriel Wong	3557 6466	
Leighton Joint Venture	Contractor under Contract no. HY/2011/08	Site Agent	Mr. Colman Wong	2823 1410	21406799
		Environmental Officer	Mr. Chris Chan	3973 0850	
		Environmental Supervisor	Ms. Penny Yiu	3973 1065	
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



2.4.3. In this reporting period, the principal work activities of individual contracts are included as follows:

Contract no. HY/2009/18 - Central - Wan Chai Bypass (CWB) - Central Interchange under FEP-05/364/2009/A

- Landscaping works
- Maintenance works

<u>Contract no. HK/2009/01 - Wan Chai Development Phase II - Central - Wan Chai Bypass at</u> <u>Hong Kong Convention and Exhibition Centre - Tunnel Works under FEP-02/364/2009</u>

• Reinstatement of amenity area

Lam Geotechnics Limited

<u>Contract no. HK/2009/02 - Wan Chai Development Phase II - Central - Wan Chai Bypass at</u> <u>Wan Chai East (CWB Tunnel) under FEP-01/364/2009</u>

- Outstanding Works at Ferry Pier (Stage 2)
- Construction of permanent EVA adjacent to Wan Chai Ferry Pier
- Preparation for raising the vent shaft, water meters chambers and multi-part covers of P7, P8 and P9
- remedial works inside tunnel
- Removal of Temporary Bridges 1, 2 and 3 Preparation work for removal of TWCR4
- Fabrication of seawall blocks
- Backfilling behind seawall block
- Formwork for Culvert O bay 15A base slab 2018.
- Steel fixing for Culvert O Bay 15A base slab
- Remedial works inside tunnel
- Rectification of defect and outstanding works were ongoing
- Construction of surface drain at WCR3 was completed on 12 February 2018.
- Preparation for installation of surface drain cover
- Remaining backfilling works at surface drain trench
- Remedial works for 0.5T rock armor
- Sewage works at Wan Shing Street

Contract no. HY/2009/19 - Central - Wanchai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link under FEP-07/364/2009/D

- Approach ramp structure Construction.
- Bridge Construction & installation of enclosure.
- Retaining wall construction.
- FEHD depot re-provision works.
- Oil street drainage works.
- Installation of skin parapet on TB bridge at Pier 15-17.
- Landscape deck, column & pile cap foundation works.
- Watson Road Watermains laying works.
- EVA at EVB.
- Hing Fat Street road and drainage works



<u>Contract no. HK/2012/08 – Wan Chai Development Phase II – Central- Wan Chai Bypass at</u> <u>Wan Chai West under FEP-12/364/2009/D</u>

- Construction of Slip Road 1
- Construction of drainage
- Asphalt paving
- Sewer diversion

# Contract no. HY/2010/08 –Central - Wan Chai Bypass (CWB) –Tunnel (Slip Road 8) under FEP-10/364/2009/B

- Tree protection works next to existing BGO,
- Drainage improvement works,
- Utility diversion works,
- Retaining wall works
- ELS works,
- Construction works for subway extension

<u>Contract no. HY/2011/08 – Central - Wan Chai Bypass (CWB) – Tunnel Buildings, Systems</u> and Fittings, and Works Associated with Tunnel Commissioning under FEP-11/364/2009/E

- Construction of Ventilation Buildings, inclusive of Administration Building, Central Ventilation Building, East Ventilation Shaft/Building, West Ventilation Building
- Construction of Tunnel Thermal Barrier
- Installation of Electricals and Mechanicals
- Installation of Tunnel Features



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

<u>Contract no. HY/2009/18 – Central – Wan Chai Bypass (CWB) – Central Interchange under</u> <u>FEP-05/364/2009/A</u>

Maintenance works

<u>Contract no. HK/2009/01 – Wan Chai Development Phase II – Central – Wan Chai Bypass at</u> <u>Hong Kong Convention and Exhibition Centre – Tunnel Works under FEP-02/364/2009</u>

• Reinstatement of amenity area

<u>Contract no. HK/2009/02 – Wan Chai Development Phase II – Central – Wan Chai Bypass at</u> <u>Wan Chai East (CWB Tunnel) under FEP-01/364/2009</u>

- Rectification work for the leakage of covered walkway at Expo Drive East
- Remedial works against water leakage for top slab soffit inside OHVD cells and tunnel base slab.
- Remaining works for Hung Hing Road Flyover Footpath associated works
- Fabrication and delivery of seawall blocks for wet condition from China
- Installation of breakwater
- Partial removal of TWCR4 to +2.5mPD
- Backfilling works
- Construction of box culvert 'O'
- Temporary works for construction of box culvert 'O'
- Remedial works against water leakage for top slab soffit inside OHVD cells and tunnel base slab.
- Backfilling works at Portion 5 up to updated finish level
- Remedial and Outstanding Works inside Tunnel
- Remedial works for damaged caisson seawall under C2
- Remedial works for damaged caisson seawall and CMS under C1
- Modification of levels of caisson seawall access, manhole covers and CMS draw pit covers.
- Construction of surface channel at potion 5
- Remedial work for 0.5 ton armor at WCR3
- Sewage works at Wan Shing Street.



<u>Contract no. HY/2009/19 – Central – Wanchai Bypass Tunnel (North Point Section) and</u> Island Eastern Corridor Link under FEP-07/364/2009/D

- Approach ramp structure Construction.
- Bridge Construction & installation of enclosure.
- Retaining wall construction.
- FEHD re-provision works.
- Oil Street drainage works.
- Installation of skin parapet on TB bridge at Pier 15-17.
- Landscape deck, column & pile cap foundation works.
- Watson Road Watermains laying works.
- EVA at EVB.
- Hing Fat Street road and drainage works.

## <u>Contract no. HK/2012/08 – Wan Chai Development Phase II – Central- Wan Chai Bypass at</u> <u>Wan Chai West under FEP-12/364/2009/D</u>

- Construction of Slip Road 1
- Construction of drainage
- Asphalt paving
- Sewer diversion
- Construction of roundabout

# Contract no. HY/2010/08 –Central - Wan Chai Bypass (CWB) –Tunnel (Slip Road 8) under FEP-10/364/2009

- Tree protection works next to existing BGO,
- Drainage improvement works,
- Utility diversion works,
- Retaining wall works
- ELS works,
- Construction works for subway extension

## <u>Contract no. HY/2011/08 – Central - Wan Chai Bypass (CWB) –Tunnel Buildings, Systems</u> and Fittings, and Works Associated with Tunnel Commissioning under FEP-11/364/2009/E

- Construction of Ventilation Buildings, inclusive of Administration Building, Central Ventilation Building, East Ventilation Shaft/Building, West Ventilation Building
- Application of Thermal Barrier inside the Tunnel, asphalt pavement
- Installation of Electricals and Mechanicals
- Installation of Tunnel Features



## 3 STATUS OF REGULATORY COMPLIANCE

#### 3.1 Status of Environmental Licensing and Permitting under the Project

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

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

Permits and/or Licenses	Reference No.	Issued Date	Status
 Environmental Permit	EP-356/2009	30 Jul 2009	Valid
Environmental Permit	EP-364/2009/E	22 Dec 2016	Valid
Environmental Permit	EP-376/2009	13 Nov 2010	Valid
Further Environmental Permit	FEP-01/356/2009	18 Feb 2010	Surrendered
Further Environmental Permit	FEP-02/356/2009	24 Mar 2010	Valid
Further Environmental Permit	FEP-03/356/2009	24 Mar 2010	Valid
Further Environmental Permit	FEP-04/356/2009	15 Nov 2010	Valid
Further Environmental Permit	FEP-05/356/2009	24 Mar 2011	Surrendered
Further Environmental Permit	FEP-06/356/2009	5 March 2013	Valid
Further Environmental Permit	FEP-07/356/2009	26 July 2013	Valid
Further Environmental Permit	FEP-01/364/2009	24 Mar 2010	Valid
Further Environmental Permit	FEP-02/364/2009	21 Apr 2010	Valid
Further Environmental Permit	FEP-03/364/2009	12 July 2010	Surrendered
Further Environmental Permit	FEP-04/364/2009/A	14 Oct 2010	Surrendered
Further Environmental Permit	FEP-05/364/2009/A	15 Nov 2010	Valid
Further Environmental Permit	FEP-06/364/2009/A	22 Nov 2010	Valid
Further Environmental Permit	FEP-07/364/2009/D	24 Nov 2015	Valid
Further Environmental Permit	FEP-08/364/2009/A	15 June 2012	Surrendered
Further Environmental Permit	FEP-09/364/2009/B	5 March 2013	Valid
Further Environmental Permit	FEP-10/364/2009/B	26 July 2013	Valid
Further Environmental Permit	FEP-11/364/2009/E	22 Dec 2016	Valid
Further Environmental Permit	FEP-12/364/2009/D	01 Aug 2016	Valid



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

<u>Contract no. HY/2009/17 – Central – Wan Chai Bypass (CWB) at FEHD Whitfield Depot –</u> <u>Advanced piling works under FEP-03/364/2009</u>

3.1.3. The construction works was completed and the FEP-03/364/2009 was surrendered by the Contractor on 28 March 2013.

<u>Contract no. 04/HY/2006 – Reconstruction of Bus Terminus near Man Yiu Street and Man</u> <u>Kwong Street under FEP-04/364/2009/A</u>

3.1.4. The construction works was completed, and the FEP-04/HY/2006 was surrendered by the Contractor on 11 February 2011.

<u>Contract no. HK/2010/06 - Wan Chai Development Phase II - Central - Wan Chai Bypass</u> over MTR Tsuen Wan Line under FEP-08/364/2009/A

3.1.5. The construction works was completed, and the FEP-08/364/2009/A was surrendered by the Contractor on 3 October 2014.

<u>Contract no. HY/2009/15 – Central-Wanchai Bypass – Tunnel (Causeway Bay Typhoon</u> <u>Shelter Section) under FEP-06/364/2009/A</u>

3.1.6. The Construction works under HY/2009/15 was confirm completed by the RSS from 27 October 2017 onwards. The weekly site audit inspection and the associated monitoring station for HY/2009/15 were temporally suspended from 27 October 2017 onwards.



<u>Contract no. HK/2009/01 – Wan Chai Development Phase II – Central – Wan Chai Bypass at</u> <u>Hong Kong Convention and Exhibition Centre – Tunnel Works under FEP-02/364/2009</u>

3.1.7. Summary of the current status on licences and/or permits on environmental protection pertinent and submission under FEP-02/364/2009 for contract no. HK/2009/01 are shown in *Table 3.2* and *Table 3.3.* 

Table 3.2	Cumulative Summary of Valid Licences and Permits under Contract no.
HK/2009/0	

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental Permit	FEP-02/356/2009	24 Mar 2010	N/A	Valid
Permit	FEP-02/364/2009	21 Apr 2010	N/A	Valid
Notification of Works Under APCO	313088	06 Jan 2010	N/A	Valid
Discharge License	WT00024952- 2016	06 Jul 2016	31 Jul 2021	Valid
Discharge License	WT00021138- 2015	17 Mar 2014	31 Mar 2020	Valid
Billing account under Waste Disposal Ordinance	7010069	21 Jan 2010	N/A	Valid
Registration as a Chemical Waste Producer	WPN5213-134- C3585-01	21 Jan 2010	N/A	Valid

Table 3.3	Summary of submission status under FEP-02/364/2009
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EP Condition	Submission	Date of Submission
Condition 2.7 & 2.8	Works Schedule and Location Plan	18 May 2011
Condition 2.6	Environmental Management Organization Chart 18 May 2011	
Condition 1.12	Commencement Date of Works	20 Jun 2011
Condition 2.9	Noise Management Plan	10 Jun 2011
Condition 2.11	Landscape Plan (Rev.5)	25 January 2018



<u>Contract no. HK/2009/02 – Wan Chai Development Phase II – Central – Wan Chai Bypass at</u> <u>Wan Chai East (CWB Tunnel) under FEP-01/364/2009</u>

3.1.8. Summary of the current status on licences and/or permits on environmental protection pertinent and submission under FEP-01/364/2009 for contract no. HK/2009/02 are shown in *Table 3.4* and *Table 3.5.* 

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

HK/2009/02					
Permits and/or Licenses	Reference No.	Issued Date	Valid Period/ Expiry Date	Status	
Further Environmental	FEP-03/356/2009	24 Mar 2010	N/A	Valid	
Permit	FEP-01/364/2009	24 Mar 2010	N/A	Valid	
Notification of Works Under APCO	313962	2 Feb 2010	N/A	Valid	
	GW-RS0756-17	04 Sep 2017	07 Sep 2017 to 28 Feb 2018	Valid	
Construction Noise	GW-RS0843-17	28 Sep 2017	07 Oct 2017 to 25 Mar 2018	Valid	
Permit (CNP) for non-pilling	GW-RS0869-17	10 Oct 2017	15 Oct 2017 to 11 Mar 2018	Valid	
equipment	GW-RS0884-17	12 Oct 2017	24 Oct 2017 to 23 Apr 2018	Valid	
	GW-RS0885-17	12 Oct 2017	14 Oct 2017 to 12 Apr 2018	Valid	
	GW-RS0159-18	22 Feb 2018	1 Mar 2018 to 31 Aug 2018	To replace RS0885-17	
Water Discharge	WT00022295-2015	12 Aug 2015	31 July 2020	Valid	
License	WT00025276-2016	19 Sep 2016	31 July 2021	Valid	
Billing Account under Waste Disposal Ordinance (Land)	7010255	10 Feb 2010	N/A	Valid	
Billing Account under Waste Disposal Ordinance (Marine)	7011496	6 Oct 2010	N/A	Valid	
Registration as Chemical Waste Producer (Wan Chai)	WPN5213-135- C3593-01	10 Mar 2010	N/A	Valid	
Registration as Chemical Waste Producer (TKO 137)	WPN5213-839- C3593-02	22 Sep 2010	N/A	Valid	



EP Condition	Submission	Date of Submission		
Condition 2.7 and 2.8	Works Schedule and Location Plan	14 Jun 2011		
Condition 2.6	Environmental Management Organization Chart	14 Jun 2011		
Condition 1.12	Commencement Date of Works	21 Jun 2011		
Condition 2.11	Landscape Plan (Revision B)	20 Nov 2012		
Condition 2.9	Noise Management Plan (Revision B)	13 Jan 2012		



<u>Contract no. HY/2009/18 – Central – Wan Chai Bypass (CWB) – Central Interchange under FEP-05/364/2009/A</u>

3.1.9. Summary of the current status on licences and/or permits on environmental protection pertinent and submission under FEP-05/364/2009A for contract no. HY/2009/18 are shown in **Table 3.6** and **Table 3.7**.

Table 3.6	Cumulative Summary of Valid Licences and Permits under Contract no.
	HY/2009/18

Permit / Licence / Notification / Approval	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental Permit	FEP-05/364/2009/A	15 Nov 2010	N/A	Valid
Notification of Works Under APCO	322293	07 Oct 2010	N/A	Valid
Construction Noise Permit (CNP) for non-piling equipment	GW-RS0032-18	22 Jan 2018	24 Jan 2018 to 21 Jul 2018	Valid
'Discharge Licenses	WT00024255-2016	18 May 2016	31 Jan 2021	Valid
Registration as a Chemical Waste Producer	WPN: 8335-121- L1048-04	17 Dec 2010	N/A	Valid
Billing Account under Waste Disposal Ordinance (Land)	Account No.: 7011587	11 Oct 2010	N/A	Valid

Table 3 7	Summar	v of submission	status under	FEP-05/364/2009/A
Table 5.7	Summar	y 01 3001111331011	Status under	1 LI -03/30 <del>4</del> /2003/A

EP Condition	Submission	Date of Submission
Condition 2.9	Condition 2.9 Noise Management Plan	
Condition 2.10	Landscape Plan (Rev. 6)	19 May 2014



<u>Contract no. HY/2009/15 – Central-Wanchai Bypass – Tunnel (Causeway Bay Typhoon</u> <u>Shelter Section) under FEP-06/364/2009/A</u>

3.1.10. Summary of the current status on licences and/or permits on environmental protection pertinent and submission under FEP-06/364/2009/A for contract no. HY/2009/15 are shown in *Table 3.8* and *Table 3.9.* 

Table 3.8	Cumulative Summary of Valid Licences and Permits under Contract no.
	HY/2009/15

Permits and/or	Reference No.	Issued Date	Valid Period/	Status
Licences			Expiry Date	
Further	FEP-06/364/2009/A	22 Nov 2010	N/A	Valid
Environmental Permit	FEP-04/356/2009	22 Nov 2010	N/A	Valid
Notification of Works Under APCO	321822	24 Sep 2010	N/A	Valid
Registration as a Chemical Waste Producer	WPN: 5213-147- C1169-35	15 Nov 2010	N/A	Valid
Billing Account under Waste Disposal Ordinance	7011553	30 Sep 2010	N/A	Valid
Construction Noise Permit	N/A	N/A	N/A	N/A
Water Discharge License (Discharge at TS1)	WT00024874-2016	20 Jul 2016	20 Jul 2016 to 31 Mar 2021	Valid

Table 3.9 Summary of submission status under FEP-06/364/2009/A

EP Condition	EP Condition Submission	
Condition 2.6	Management Organization of Main Construction Companies	11 Mar 2011
	Amendment for Management Organization of Main Construction Companies	16 May 2011
Condition 2.7	Works Schedule	15 Mar 2011
Condition 2.8	Location Plan	15 Mar 2011
Condition 2.9	Noise Management Plan	6 May 2011
Condition 2.10	Landscape Plan (Rev.5)	25 Jan 2018



Contract no. HY/2009/19 – Central – Wanchai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link under FEP-07/364/2009/D

3.1.11. The current status on licences and/or permits on environmental protection pertinent and submission under FEP-07/364/2009/D for contract no. HY/2009/19 are shown in *Table 3.10* and *Table 3.11*.

## Table 3.10 Cumulative Summary of Valid Licences and Permits under Contract no.HY/2009/19

H 1/2009/19					
Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status	
Further Environmental Permit	FEP-07/364/2009/D	24 Nov 2015	N/A	Valid	
Notification of Works Under APCO	326160	24 Jan 2011	N/A	Valid	
Registration as a Waste Producer	7012306	10 Feb 2011	N/A	Valid	
Registration as Chemical Waste Producer	5213-151-C3654-01	24 Mar 2011	N/A	Valid	
Application for Vessel Disposal	7012306	21 July 2011	N/A	Valid	
	GW-RS0021-18	12 Jan 2018	14 Jan 2018 to 03 Jul 2018	Valid	
	GW-RS0128-18	15 Feb 2018	17 Feb 2018 to 14 Aug 2018	Valid	
	GW-RS1150-17	22 Dec 2017	28 Dec 2017 to 27 Jun 2018	Valid	
Construction Noise	GW-RS0124-18	15 Feb 2018	17 Feb 2018 to 14 May 2018	Valid	
Permits (CNP) for non- piling equipment	GW-RS0038-18	12 Jan 2018	14 Jan 2018 to 04 Feb 2018	Expired	
	GW-RS0069-18	26 Jan 2018	30 Jan 2018 to 25 Apr 2018	Valid	
	GW-RS0093-18	30 Jan 2018	02 Feb 2018 to 28 Apr 2018	Valid	
	GW-RS0157-18	15 Feb 2018	19 Feb 2018 to 11 Mar 2018	Valid	
Water Discharge License	WT00025282-2016	15 Sep 2016	30 Sep 2021	Valid	

#### Table 3.11 Summary of submission status under FEP-07/364/2009/D

EP Condition	Submission	Date of Submission
Condition 2.13	Landscape Plan (Rev.6)	29 August 2017
Condition 2.9	Noise Management Plan (Rev.4)	07 December 2017



<u>Contract no. HK/2012/08 – Wan Chai Development Phase II – Central- Wan Chai Bypass at</u> <u>Wan Chai West under FEP-12/364/2009/D</u>

3.1.12. The current status on licences and/or permits on environmental protection pertinent and submission under FEP-12/364/2009/D for contract no. HK/2012/08 showed in *Table 3.12 and Table 3.13.* 

HR/2012/08					
Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status	
	FEP-09/364/2009/B	5 Mar 2013	N/A	Valid	
Further Environmental Permit	FEP-12/364/2009/D	1 Aug 2016	N/A	Valid	
	FEP-06/356/2009	05 Mar 2013	N/A	Valid	
Notification of Works Under APCO	355439	4 Feb 2013	N/A	Valid	
Registration as a Chemical Waste Producer	5213-134-C3790-01	30 Jun 2016	N/A	Valid	
Billing Account under Waste Disposal Ordinance	7016883	18 Feb 2013	N/A	Valid	
	GW-RS0676-17	3 Aug 2017	26 Aug 2017 to 25 Feb 2018	Expired and replaced by GW- RS0181-18	
	GW-RS0181-18	23 Feb 2018	26 Feb 2018 to 25 Aug 2018	Valid	
Construction Noise Permit	GW-RS1163-17	28 Dec 2017	13 Jan 2018 to 12 Jul 2018	Valid	
(CNP) for non-piling equipment	GW-RS1134-17	19 Dec 2017	22 Dec 2017 to 12 Feb 2018	Expired and replaced by GW- RS0098-18	
	GW-RS0098-18	8 Feb 2018	13 Feb 2018 to 6 Apr 2018	Valid	
	GW-RS0052-18	24 Jan 2018	26 Jan 2018 to 28 Feb 2018	Valid	
Water Discharge License	WT00020594-2014	22 Dec 2014	31 Jan 2019	Valid	

Table 3.12 Cumulative Summary of Valid Licences and Permits under Contract no.HK/2012/08

#### Table 3.13 Summary of submission status under FEP-12/364/2009/D

EP Condition	Submission	Date of Submission
Condition 2.9	Noise Management Plan (Rev.2)	9 July 2013
Condition 2.14	Landscape Plan (Rev.4)	24 August 2015



<u>Contract no. HY/2010/08 – Central – Wanchai Bypass Tunnel – Tunnel (Slip Road 8) under FEP-10/364/2009/B</u>

3.1.13. The current status on licences and/or permits on environmental protection pertinent and submission under FEP-10/364/2009/B for contract no. HK/2012/08 showed in *Table 3.14 and Table 3.15.* 

Table 3.14 Cumulative Sun	mary of Valid Licences and Permits under Contract no.
HY/2010/08	-

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental	FEP-10/364/2009/B	26 Jul 2013	NA	Valid
Permit	FEP-07/356/2009	26 Jul 2013	NA	Valid
Notification of Works Under APCO	357176	2013-04-02	NA	Valid
Registration as a Chemical Waste Producer	WPN5213-147- C1169-44	2013-03-27	NA	Valid
Billing Account under Waste Disposal Ordinance	7017170	2013-03-27	NA	Valid
Water Discharge License	WT00020468-2014	03 Dec 2017	31 Jul 2018	Valid
	GW-RS1205-17	5 Jan 2018	8 Jan 2018 to 2 Jul 2018	Valid
	GW-RS1194-17	5 Jan 2018	8 Jan 2018 to 1 Jul 2018	Valid
Construction Noise	GW-RS1091-17	7 Dec 2017	9 Dec 2017 to 5 Jun 2018	Valid
Permit (CNP) for non- piling equipment	GW-RS0047-18	24 Jan 2018	29 Jan 2018 to 28 Jul 2018	Valid
, <b>, , , , , , , , , , , , , , , , , , </b>	GW-RS0905-17	17 Oct 2017	19 Oct 2017 to 18 Apr 2018	Valid
	GW-RS1030-17	23 Nov 2017	1 Dec 2017 to 27 May 2018	Valid
	GW-RW0536-17	10 Oct 2017	26 Oct 2017 to 24 Apr 2018	Valid

#### Table 3.15 Summary of submission status under FEP-10/364/2009/B

EP Condition	Submission	Date of Submission
Condition 2.9	Noise Management Plan (Rev.3)	03 January 2014
Condition 2.14	Landscape Plan (Rev.2)	19 May 2014
Condition 2.16	Additional Mitigation Plan (Rev.2)	18 February 2015



<u>Contract no. HY/2011/08 – Central - Wan Chai Bypass (CWB) – Tunnel Buildings, Systems</u> and Fittings, and Works Associated with Tunnel Commissioning under FEP-11/364/2009/E

3.1.14. The current status on licenses and/or permits on environmental protection pertinent and submission under FEP-11/364/2009/E for contract no. HY/2011/08 showed in *Table 3.16 and Table 3.17.* 

Table 3.16 Cumulati HY/2011/0	-	Licences and Permit	s under Contract	t no.

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental Permit	FEP-11/364/2009/E	22 Dec 2016	N/A	Valid
Notification of Works Under APCO	LCAC-EN-LE-00017	7 Mar 2014	N/A	Valid
	5213-121-L2837-01	19 Apr 2016	N/A	Valid
Registration as a Chemical	5213-151-L2837-02	24 May 2016	N/A	Valid
Waste Producer	5213-134-L2898-01	16 Nov 2015	N/A	Valid
	5213-134-L2952-01	12 May 2017	N/A	Valid
Billing Account under Waste Disposal Ordinance	7019640	27 Mar 2014	N/A	Valid
	GW-RS0005-18	09 Jan 2018	11 Jan 2018 to 26 Mar 2018	Valid
	GW-RS0034-18	19 Jan 2018	28 Jan 2018 to 15 Jul 2018	Valid
	GW-RS-0058-18	26 Jan 2018	1 Feb 2018 to 31 Jul 2018	Valid
	GW-RS0063-18	26 Jan 2018	1 Feb 2018 to 31 Jul 2018	Valid
Construction Noise Permit	GW-RS0144-18	06 Feb 2018	24 Feb 2018 to 23 Aug 2018	Valid
(CNP) for non-piling equipment	GW-RS0150-18	15 Feb 2018	20 Feb 2018 to 19 Aug 2018	Valid
	GW-RS0164-18	23 Feb 2018	1 Mar 2018 to 31 Aug 2018	Valid
	GW-RS0171-18	23 Feb 2018	27 Feb 2018 to 26 Aug 2018	Valid
	GW-RS0887-17	12 Oct 2017	14 Oct 2017 to 31 Mar 2018	Valid
	GW-RS0930-17	26 Oct 2017	1 Nov 2017 to 30 Apr 2018	Valid



Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
	GW-RS0935-17	26 Oct 2017	1 Nov 2017 to 30 Apr 2018	Valid
	GW-RS0948-17	26 Oct 2017	1 Nov 2017 to 30 Apr 2018	Valid
	GW-RS0956-17	01 Nov 2017	3 Nov 2017 to 30 Apr 2018	Valid
	GW-RS1047-17	28 Nov 2017	1 Dec 2017 to 31 May 2018	Valid
	GW-RS1048-17	28 Nov 2017	1 Dec 2017 to 31 May 2018	Valid
	GW-RS1051-17	28 Nov 2017	1 Dec 2017 to 31 May 2018	Valid
	GW-RS1053-17	28 Nov 2017	30 Nov 2017 to 28 Apr 2018	Valid
	GW-RS1202-17	02 Jan 2018	4 Jan 2017 to 30 Jun 2018	Valid
	GW-RS1203-17	03 Jan 2018	6 Jan 2017 to 30 Jun 2018	Valid
	GW-RS1204-17	03 Jan 2018	6 Jan 2017 to 30 Jun 2018	Valid
	WT00022046-2015	15 Jul 2015	31 Jul 2019	Valid
Water Discharge License	WT00022753-2015	22 Jun 2017	30 Apr 2021	Valid
	WT00024561-2016	30 May 2016	31 May 2021	Valid
	WT00025858-2016	17 Oct 2016	31 Oct 2021	Valid
	WT00026829-2017	14 Jun 2017	31 Jan 2022	Valid
	WT00027343-2017	01 Mar 2017	31 Mar 2022	Valid
	WT000283434-2017	09 Aug 2017	31 Aug 2022	Valid



## Table 3.17 Summary of submission status under FEP-11/364/2009/E

EP Condition	Submission	Date of Submission
Condition 2.9	Noise Management Plan (Rev.4)	08 Nov 2016
Condition 2.14	Landscape Plan (Rev.2)	18 Feb 2015
Condition 2.13 a)	Operational Air Quality Management Plan for West Ventilation Building (Rev.0)	25 Nov 2014
Condition 2.13 b)	Operational Air Quality Management Plan for Central Ventilation Building (Rev.0)	03 Mar 2017
Condition 2.13 c)	Operational Air Quality Management Plan for East Ventilation Building and East Vent Shaft (Rev.0)	18 Feb 2015
Condition 2.13 d)	Operational Air Quality Management Plan for an Electrostatic Precipitator system for EVB Operation (Rev.0)	06 Apr 2017
Condition 2.13 e)	Operational Air Quality Management Plan for ventilation system of Eastern Portal of the CWB Tunnel (Rev.0)	23 Oct 2016



#### 4 MONITORING REQUIREMENTS

#### 4.1 Noise Monitoring

#### NOISE MONITORING STATIONS

4.1.1. The noise monitoring stations for the Project are listed and shown in *Table 4.1* and *Figure* <u>4.1.</u> <u>Appendix 4.1</u> shows the established Action/Limit Levels for the monitoring works.

Station	Description	
M1a***	Footbridge for Ex-Harbour Road Sports Centre	
M2b	Noon-day Gun Area	
M3a	Tung Lo Wan Fire Station	
M4b	Victoria Centre	
M5b	City Garden	
M6	HK Baptist Church Henrietta Secondary School	
M7e*	International Finance Centre (Eastern End of Podium)	
M7w	International Finance Centre (Western End of Podium)	
M8**	City Hall	

Table 4.1 Noise Monitoring Stations

Remark \*: Location ID has been updated from M7 to M8 for City Hall

Remark \*\*: M7e has become a reference station starting from 7 Aug 2012

Remarks\*\*\*: The location ID of monitoring station M1a was updated as "Footbridge for Ex-Harbour Road Sports Centre" in May 2017.

#### REAL TIME NOISE MONITORING STATIONS

4.1.2. The noise monitoring stations for the Project are listed and shown in *Table 4.2* and <u>Figure</u> <u>4.1</u>. <u>Appendix 4.1</u> shows the established Action/Limit Levels for the monitoring works.

Table 4.2 Real Time Noise Monitoring Stations

District	Station	Description
Tin Hau	RTN1	FEHD Hong Kong Transport Section Whitfield Depot
North Point	RTN2a	Hong Kong Electric Centre
North Point	RTN3	Po Leung Kuk Yu Lee Mo Fan Memorial School
Tin Hau	RTN4	Causeway Bay Community Centre



#### NOISE MONITORING PARAMETERS, FREQUENCY AND DURATION

- 4.1.3. The construction noise level shall be measured in terms of the A-weighted equivalent continuous sound pressure level (Leq). Leq (30 minutes) shall be used as the monitoring parameter for the time period between 0700 and 1900 hours on normal weekdays. For all other time periods, Leq (5 minutes) shall be employed for comparison with the Noise Control Ordinance (NCO) criteria. Supplementary information for data auditing, statistical results such as L<sub>10</sub> and L<sub>90</sub> shall also be obtained for reference.
- 4.1.4. Noise monitoring shall be carried out at all the designated monitoring stations. The monitoring frequency shall depend on the scale of the construction activities. The following is an initial guide on the regular monitoring frequency for each station on a weekly basis when noise generating activities are underway:
  - One set of measurements between 0700 and 1900 hours on normal weekdays.
- 4.1.5. 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 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.
- 4.1.6. If construction works are extended to include works during the hours of 1900 0700 as well as public holidays and Sundays, additional weekly impact monitoring shall be carried out during respective restricted hours periods. Applicable permits under NCO shall be obtained by the Contractor.

#### MONITORING EQUIPMENT

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



### 4.2 Air Quality Monitoring AIR QUALITY MONITORING STATIONS

4.2.1. The air quality monitoring stations for the Project are listed and shown in *Table 4.3 and Figure 4.1. Appendix 4.1* shows the established Action/Limit Levels for the monitoring works.

Table 4.5 All quality monitoring stations			
Station ID	Monitoring Location	Description	
CMA1b	Harbour Grand Hotel Boundary Wall**	North Point (Re- commenced on 14 November 2011)	
CMA2a	Causeway Bay Community Centre	Causeway Bay	
CMA3a	CWB PRE Site Office *	Causeway Bay	
CMA4a	Society for the Prevention of Cruelty to Animals	Wan Chai	
CMA5b	Pedestrian Plaza***	Wan Chai	
MA1e	International Finance Centre (Eastern End of Podium)	Central	
MA1w	International Finance Centre (Western End of Podium)	Central	

 Table 4.3
 Air Quality Monitoring Stations

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

Remarks\*\*: The location ID of monitoring station CMA1b was updated as "Oil Street Site Office" in April 2013. The location ID of monitoring station CMA1b was updated as "Harbour Grand Hotel Boundary Wall" with respect to the fine adjustment of monitoring station from the Oil Street Site Office to Harbour Grand Hotel Boundary Wall from 05 June 2017 onwards due to demolition of Oil Street Site Office.

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

#### AIR QUALITY MONITORING PARAMETERS, FREQUENCY AND DURATION

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



#### SAMPLING PROCEDURE AND MONITORING EQUIPMENT

- 4.2.5. High volume samplers (HVSs) in compliance with the following specifications shall be used for carrying out the 1-hour and 24-hour TSP monitoring:
  - 0.6 1.7 m<sup>3</sup> per minute adjustable flow range;
  - Equipped with a timing / control device with +/- 5 minutes accuracy for 24 hours operation;
  - Installed with elapsed-time meter with +/- 2 minutes accuracy for 24 hours operation;
  - Capable of providing a minimum exposed area of 406 cm2;
  - Flow control accuracy: +/- 2.5% deviation over 24-hour sampling period;
  - Equipped with a shelter to protect the filter and sampler;
  - Incorporated with an electronic mass flow rate controller or other equivalent devices;
  - Equipped with a flow recorder for continuous monitoring;
  - Provided with a peaked roof inlet;
  - Incorporated with a manometer;
  - Able to hold and seal the filter paper to the sampler housing at horizontal position;
  - Easily changeable filter; and
  - Capable of operating continuously for a 24-hour period.
- 4.2.6. Initial calibration of dust monitoring equipment shall be conducted upon installation and thereafter at bi-monthly intervals. The transfer standard shall be traceable to the internationally recognized primary standard and be calibrated annually. The concern parties such as IEC shall properly document the calibration data for future reference. All the data should be converted into standard temperature and pressure condition.

#### LABORATORY MEASUREMENT / ANALYSIS

- 4.2.7. A clean laboratory with constant temperature and humidity control, and equipped with necessary measuring and conditioning instruments to handle the dust samples collected, shall be available for sample analysis, and equipment calibration and maintenance. The laboratory should be HOKLAS accredited.
- 4.2.8. Filter paper of size 8" x 10" shall be labelled before sampling. It shall be a clean filter paper with no pinholes, and shall be conditioned in a humidity-controlled chamber for over 24 hours and be pre-weighed before use for the sampling.
- 4.2.9. After sampling, the filter paper loaded with dust shall be kept in a clean and tightly sealed plastic bag. The filter paper shall then be returned to the laboratory for reconditioning in the humidity controlled chamber followed by accurate weighing by an electronic balance with readout down to 0.1 mg. The balance shall be regularly calibrated against a traceable standard.
- 4.2.10. All the collected samples shall be kept in a good condition for 6 months before disposal.
- 4.2.11. Current calibration certificates of equipments are presented in Appendix 4.2.



#### 5 MONITORING RESULTS

- 5.0.1. The environmental monitoring will be implemented based on the division of works areas of each designated project managed under different contracts with separate FEP applied by individual contractors. Overall layout showing work areas of various contracts, latest status of work commencement and monitoring stations is shown in *Figure 2.1* and *Figure 4.1*. The monitoring results are presented in according to the Individual Contract(s).
- 5.0.2. In the reporting period, the concurrent contracts are as follows:
  - Contract no. HY/2009/15 Central-Wanchai Bypass Tunnel (Causeway Bay Typhoon Shelter Section)
  - Contract no. HY/2009/18 Central Wan Chai Bypass (CWB) Central Interchange
  - Contract no. HY/2009/19 Central Wanchai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link
  - Contract no. HY/2010/08 Central- Wanchai Bypass Tunnel (Slip Road 8 Section)
  - Contract no. HK/2009/01 Wan Chai Development Phase II Central Wan Chai Bypass at Hong Kong Convention and Exhibition Centre
  - Contract no. HK/2009/02 Wan Chai Development Phase II Central Wan Chai Bypass at Wan Chai East
  - Contract no. HK/2012/08 Wan Chai Development Phase II Central Wan Chai Bypass at Wan Chai West
  - Contract no. HY/2011/08 Central Wan Chai Bypass (CWB)– Tunnel Buildings, Systems and Fittings, and Works Associated with Tunnel Commissioning
- 5.0.3. The environment monitoring schedules for reporting period and coming month are presented in *Appendix 5.1*.



#### 5.1 Noise Monitoring Results

5.1.1 Monitoring for report of review baseline noise level was performed from 11 April 2011 to 8 June 2011. Then the report was submitted on the 20 June 2011, verified by IEC on 18 July 2011 and was approved by ER by January 2012. The new baseline is used for the noise calculation starting from January 2012.

<u>Contract no. HY/2009/18 – Central – Wan Chai Bypass (CWB) – Central Interchange under FEP-05/364/2009/A</u>

5.1.2 Noise monitoring for the Central Interchange works under contract no. HY/2009/18 was commenced on 22 April 2011.The proposed division of noise monitoring stations for Contract no. HY/2009/18 are summarized in *Table 5.1* below:

Station	Description	
*M7e	International Finance Centre (Eastern End of Podium)	
M7w	International Finance Centre (Western End of Podium)	
M8	City Hall	

 Table 5.1
 Noise Monitoring Stations for Contract no. HY/2009/18

\* Remark: M7e has become a reference station starting from 7 Aug 2012

#### 5.1.3 No action or limit level exceedance was recorded in this reporting period.

5.1.4 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>
 5.2

<u>5.2</u>.

<u>Contract no. HK/2009/01 – Wan Chai Development Phase II – Central – Wan Chai Bypass at</u> <u>Hong Kong Convention and Exhibition Centre – Tunnel Works under FEP-02/364/2009 and</u> <u>Contract no. HK/2009/02 – Wan Chai Development Phase II – Central – Wan Chai Bypass at</u> <u>Wan Chai East (CWB Tunnel) under FEP-01/364/2009</u>

5.1.5 The commencement of construction works for Contract no. HK/2009/01 under FEP-02/364/2009 is on 25 August 2011 and HK/2009/02 under FEP-01/364/2009 is on 26 April 2011. The proposed division of noise monitoring stations are summarized in *Table 5.2* below.

Table 5.2Noise Monitoring Station for Contract no HK/2009/01 and HK/2009/02

Station	Description	
M1a	Footbridge for Ex-Harbour Road Sports Centre	

- 5.1.6 Limit level exceedances were recorded at M1a Footbridge for Harbour Road Sports Centre on 02 February 2018 and the exceedance was concluded as non-Project related.
- 5.1.7 No construction work was conducted by Contract HK/2009/01 around the concerned location during the time of measurement while excavation works and hammering under non-WDII-CWB contractor next to the monitoring station was observed as the major noise contribution



during monitoring. As such, the exceedance was considered as non-Project related to Contract HK/2009/01.

- 5.1.8 Despite trench excavation work was conducted by Contract HK/2009/02 around the concerned location during the time of measurement, no major noise emanation from the works was observed during monitoring. Meanwhile, excavation works and hammering under non-WDII-CWB contractor next to the monitoring station was observed as the major noise contribution during monitoring. As such, the exceedance was considered as not relate to Project works under HK/2009/02.
- 5.1.9 Noise monitoring results measured in this reporting period are reviewed and summarized. Details of noise monitoring results and graphical presentation can be referred in <u>Appendix</u> <u>5.2.</u>

<u>Contract no. HY/2009/19 – Central – Wanchai Bypass Tunnel (North Point Section) and</u> <u>Island Eastern Corridor Link under FEP-07/364/2009/D</u>

5.1.10 Noise monitoring for the tunnel works under contract no. HY/2009/19 was commenced on 24 April 2011. The proposed division of noise monitoring stations are summarized in *Table 5.4* below.

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

Table 5.4 Noise Monitoring Stations for Contract no. HY/2009/19

- 5.1.11 No action or limit level exceedance was recorded in this reporting period.
- 5.1.12 Noise monitoring results measured in this reporting period are reviewed and summarized. Details of noise monitoring results and graphical presentation can be referred in <u>Appendix</u> <u>5.2</u>. Details of the Notification of Exceedance can be referred in <u>Appendix 6.2</u>.



<u>Contract no. HY/2010/08 – Central-Wanchai Bypass –Wanchai Bypass Tunnel (Slip Raod 8</u> <u>Section) under FEP-12/364/2009/D</u>

5.1.13 The commencement of construction works for Contract no. HY/2010/08 under FEP-10/364/2009/B was on 02 September 2013. Noise monitoring was commenced on 02 September 2013. The proposed divisions of noise monitoring stations are summarized in *Table 5.5* below.

Table 5.5	Noise Monitoring Stations for Contract no. HY/2010/08

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

- 5.1.14 No action or limit level exceedance was recorded in this reporting period.
- 5.1.15 Noise monitoring results measured in this reporting period are reviewed and summarized. Details of noise monitoring results and graphical presentation can be referred in <u>Appendix</u> <u>5.2.</u>

<u>Contract no. HY/2011/08 – Central - Wan Chai Bypass (CWB) – Tunnel Buildings, Systems</u> and Fittings, and Works Associated with Tunnel Commissioning

5.1.16 Noise monitoring for the Central Interchange works under contract no. HY/2011/08 was commenced on 22 April 2011. The proposed division of noise monitoring stations for Contract no. HY/2011/08 are summarized in *Table 5.6* below:

Table 5.6	Noise Monitoring Stations for Contract no. HY/2011/08
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Station	Description	
M4b	Victoria Centre	
*M7e	International Finance Centre (Eastern End of Podium)	
M7w	International Finance Centre (Western End of Podium)	
M8	City Hall	

\* Remark: M7e has become a reference station starting from 7 Aug 2012

- 5.1.17 No action or limit level exceedance was recorded in this reporting period.
- 5.1.18 Noise monitoring results measured in this reporting period are reviewed and summarized. Details of noise monitoring results and graphical presentation can be referred in <u>Appendix</u> <u>5.2</u>.



#### 5.2 Real Time Noise Monitoring Results

- 5.2.1. Real time noise monitoring at RTN4-Causeway Bay Community Centre was commenced on 13 Jan 2013. The baseline noise level of RTN4- Causeway Bay Community Centre has adopted the results from the baseline noise monitoring report for EP/364/2009 in 22 April 2010 in which approved by EPD.
- 5.2.2. Po Leung Kuk Yu Lee Mo Fan Memorial School granted permission for set up on 4 Sep 2012 and real time noise monitoring station RTN3 set up was performed on 14 Sep 2012. Real time noise baseline capturing was conducted during time period without construction work from 21 Sep 2012 to 04 Oct 2012. Real time noise monitoring at RTN3 Po Leung Kuk Yu Lee Mo Fan Memorial School was commenced since 06 Oct 2012.
- 5.2.3. Real-time noise monitoring station RTN2 previously located at oil Street Community Liaison Centre was relocated to Hong Kong Electric Centre on 5 Oct 2012, which is a representative of the noise sensitive receiver City Garden. The baseline noise level of RTN2a will adopt the results derived from the baseline noise monitoring conducted at Hong Kong Electric Centre from 4 December 2009 to 17 December 2009.
- 5.2.4. Real-time noise monitoring station RTN1-FEHD Whitfield Depot was finely adjusted from 2/F to roof-top at FEHD Whitfield Depot on 24 June 2013 with respect to the commencement of advance works for IEC parapet demolition.
- 5.2.5. With respect to the non-CWB Project building construction at Oil Street, the real-time noise monitoring station RTN2a- Hong Kong Electric Centre was finely adjusted from Northeast Side to Northwestern side at Roof Top location on 03 March 2017.

Contract no. HY/2009/19 – Central – Wanchai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link under FEP-07/364/2009/D

5.2.6. The proposed division of noise monitoring stations are summarized in *Table 5.7* below. Real time noise monitoring for major construction works under contract no. HY/2009/19 was commenced on 24 April 2011.

Location ID	District	Description
RTN1	Tin Hau	FEHD Hong Kong Transport Section Whitfield Depot
RTN2a	North Point	Hong Kong Electric Centre
RTN3	North Point	Po Leung Kuk Yu Lee Mo Fan Memorial School
RTN4	Tin Hau	Causeway Bay Community Centre

Table 5.7 Real Time Noise Monitoring Stations for Contract no. HY/2009/19

\* Real time noise monitoring results and graphical presentation during restrict hours and night time period are for information only and noise during CNP period shall be controlled under NCO.



- 5.2.7. No limit level exceedance was recorded at RTN1 FEHD Hong Kong Transport Section Whitfield Depot in the reporting period.
- 5.2.8. No limit level exceedance was recorded at RTN2a Hong Kong Electric Centre in the reporting period.
- 5.2.9. Limit level exceedances were recorded at RTN3- Yu Lee Mo Fan Memorial School was recorded on 10 and 26 February 2018 in the reporting period.
- 5.2.10. After checking with Contractor, was conducted on 10 February 2018, pavement and asphalting works was conducted during the monitoring period. In view of the continuous construction operation while only discrete exceedance was recorded across the works period, the exceedance is considered as non Project related and potentially contributed by nearby traffic.
- 5.2.11. After checking with Contractor, concrete breaking works on bridge deck between Pier F6 and F8 was conducted on 26 February 2018 behind temporary noise enclosure. In view of the continuous operation and the discrete exceedance recorded, the exceedance was considered as non-Project related and would be potentially contributed by nearby traffic.
- 5.2.12. No limit level exceedance was recorded at RTN4- Causeway Bay Community Centre was recorded in the reporting period.
- 5.2.13. Real time noise monitoring results measured in this reporting period are reviewed and summarized. Details of real time noise monitoring results and graphical presentation can be referred to <u>Appendix 5.4.</u>



<u>Contract no. HY/2011/08 – Central - Wan Chai Bypass (CWB) – Tunnel Buildings,</u> <u>Systems and Fittings, and Works Associated with Tunnel Commissioning</u>

5.2.14. The proposed division of noise monitoring stations are summarized in *Table 5.8* below. Real time noise monitoring for major construction works under contract no. HY/2011/08 was commenced on 19 March 2015.

Location ID	District	Description
RTN1	Tin Hau	FEHD Hong Kong Transport Section Whitfield Depot
RTN2a	North Point	Hong Kong Electric Centre
RTN4	Tin Hau	Causeway Bay Community Centre

Table 5.8 Real Time Noise Monitoring Stations for Contract no. HY/2011/08

\*Real time noise monitoring results and graphical presentation during restrict hours and night time period are for information only and noise during CNP period shall be controlled under NCO.

- 5.2.15. No limit level exceedance was recorded at RTN1 FEHD Hong Kong Transport Section Whitfield Depot in the reporting period.
- 5.2.16. No limit level exceedance was recorded at RTN2a Hong Kong Electric Centre in the reporting period.
- 5.2.17. No limit level exceedance was recorded at RTN4 Causeway Bay Community Centre in the reporting period.



# 5.3 Air Quality Monitoring Results

Lam Geotechnics Limited

<u>Contract no. HY/2009/18 – Central – Wan Chai Bypass (CWB) – Central Interchange under FEP-05/364/2009/A</u>

5.3.1 Air quality monitoring for the Central Interchange works under contract no. HY/2009/18 was commenced on 21 April 2011. The proposed division of air quality monitoring stations are summarized in *Table 5.9* below.

#### Table 5.9 Air Quality Monitoring Stations for Contract no. HY/2009/18

Station	Description
MA1e	International Finance Centre (Eastern End of Podium)
MA1w	International Finance Centre (Western End of Podium)

#### 5.3.2 No exceedance was recorded in the reporting period.

5.3.3 Air quality monitoring results measured in this reporting period are reviewed and summarized. Details of air quality monitoring results and graphical presentation can be referred in *Appendix 5.3*.

<u>Contract no. HK/2009/01 – Wan Chai Development Phase II – Central – Wan Chai Bypass at</u> Hong Kong Convention and Exhibition Centre – Tunnel Works under FEP-02/364/2009

5.3.4 The commencement of construction works for Contract no. HK/2009/01 under FEP-02/364/2009 is on 25 August 2011. Air quality monitoring was commenced on 25 August 2011. The proposed division of air quality monitoring stations are summarized in *Table 5.10* below.

#### Table 5.10 Air Quality Monitoring Station for Contract no. HK/2009/01

Station	Description
CMA5b	Pedestrian Plaza

- 5.3.5 No exceedance was recorded in the reporting period.
- 5.3.6 Air quality monitoring results measured in this reporting period are reviewed and summarized. Details of air quality monitoring results and graphical presentation can be referred in <u>Appendix 5.3</u>.



<u>Contract no. HK/2009/02 – Wan Chai Development Phase II – Central – Wan Chai Bypass at</u> <u>Wan Chai East (CWB Tunnel) under FEP-01/364/2009</u>

5.3.7 The commencement of construction works for HK/2009/02 under FEP-01/364/2009 is on 26 April 2011. The proposed division of air quality monitoring stations are summarized in *Table 5.11* below.

Table 5.11 Air Quality Monitoring Station for Contract no. HK/2009/02

Station	Description	
CMA3a	CWB site office at Wanchai Waterfront Promenade	
CMA4a	Society for the Prevention of Cruelty to Animals	

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

<u>Contract no. HY/2009/19 – Central – Wanchai Bypass Tunnel (North Point Section) and</u> <u>Island Eastern Corridor Link under FEP-07/364/2009/D</u>

5.3.10 The proposed division of air quality monitoring stations are summarized in *Table 5.13* below. Air quality monitoring for the tunnel works under contract no. HY/2009/19 was commenced on 26 April 2011.

Station Description	
CMA1b	Harbour Grand Hotel Boundary Wall
CMA2a	Causeway Bay Community Centre

 Table 5.13 Air Quality Monitoring Stations for Contract no. HY/2009/19

- 5.3.11 No exceedance was recorded in the reporting period.
- 5.3.12 Air quality monitoring results measured in this reporting period are reviewed and summarized. Details of air quality monitoring results and graphical presentation can be referred in <u>Appendix 5.3</u>.



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

5.3.13 The commencement of construction works for Contract no. HK/2012/08 under FEP-09/364/2009/B was on May 2014. Air quality monitoring was commenced on 25 August 2011. The proposed division of air quality monitoring stations are summarized in *Table 5.14* below.

Table 5.14 Air Quality Monitoring Station for Contract no. HK/2012/08

Station	Description
CMA5b	Pedestrian Plaza

5.3.14 No exceedance was recorded in the reporting period.

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5.3.15 Air quality monitoring results measured in this reporting period are reviewed and summarized. Details of air quality monitoring results and graphical presentation can be referred in *Appendix 5.3*.

<u>Contract no. HY/2010/08 – Central-Wanchai Bypass –Wanchai Bypass Tunnel (Slip Raod 8</u> <u>Section) under FEP-12/364/2009/D</u>

5.3.16 The commencement of construction works for Contract no. HY/2010/08 under FEP-12/364/2009/D was on July 2014. Air quality monitoring was commenced on 14 July 2011. The proposed division of air quality monitoring stations are summarized in *Table 5.15* below.

 Table 5.15 Air Quality Monitoring Station for Contract no. HY/2010/08

Station Description		Description
	CMA3a	CWB PRE Site Office

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



<u>Contract no. HY/2011/08 – Central - Wan Chai Bypass (CWB) – Tunnel Buildings, Systems</u> and Fittings, and Works Associated with Tunnel Commissioning

5.3.19 Air quality monitoring for the Central Interchange works under contract no. HY/2011/08 was commenced on 21 April 2011. The proposed division of air quality monitoring stations are summarized in *Table 5.16* below.

Station	Description
MA1e	International Finance Centre (Eastern End of Podium)
MA1w	International Finance Centre (Western End of Podium)
CMA1b	Harbour Grand Hotel Boundary Wall
CMA2a	Causeway Bay Community Centre
CMA5b	Pedestrian Plaza

 Table 5.16 Air Quality Monitoring Stations for Contract no. HY/2011/08

- 5.3.20 No exceedance was recorded in the reporting period.
- 5.3.21 Air quality monitoring results measured in this reporting period are reviewed and summarized. Details of air quality monitoring results and graphical presentation can be referred in <u>Appendix 5.3</u>.



## 5.4 Waste Monitoring Results

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<u>Contract no. HK/2009/01 – Wan Chai Development Phase II – Central – Wan Chai Bypass at</u> <u>Hong Kong Convention and Exhibition Centre – Tunnel Works under FEP-02/364/2009</u>

5.4.1. Inert C&D wastes and non-inert C&D wastes were disposed in this reporting period. Details of the waste flow table are summarized in *Table 5.17*.

Waste Type	Quantity this month	Cumulative-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, <b>m</b> <sup>3</sup>	Nil	108087.815	ТКО137, ТМ38
Inert C&D materials recycled, <b>m</b> <sup>3</sup>	Nil	98512.03	N/A
Non-inert C&D materials disposed, <b>m</b> ³	2.82	5341.44	SENT Landfill
Non-inert C&D materials recycled, <b>kg</b>	Nil	1285746	N/A
Chemical waste disposed, <b>kg</b>	Nil	10400	N/A
Marine Sediment (Type 1 – Open Sea Disposal) , m <sup>3</sup>	Nil	11527	South of Cheung Chau
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal), <b>m3</b>	Nil	16261	East of Cha Chau South Brothers

Table 5.17	Details of Waste Disposal for Contract no.	HK/2009/01
1 4010 0111		



<u>Contract no. HK/2009/02 – Wan Chai Development Phase II – Central – Wan Chai Bypass at</u> <u>Wan Chai East (CWB Tunnel) under FEP-01/364/2009</u>

5.4.2. Inert C&D & non-inert C&D wastes were disposed of in this reporting period. Details of the waste flow table are summarized in *Table 5.18*.

Waste Type	Quantity this month	Cumulative Quantity- to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, <b>m</b> <sup>3</sup>	Nil	522721.21	TKO137 / TM 38
Inert C&D materials recycled, <b>m</b> <sup>3</sup>	Nil	46520	N/A
Non-inert C&D materials disposed, <b>m</b> <sup>3</sup>	20.5	5557.92	SENT Landfill
Non-inert C&D materials recycled, <b>m</b> <sup>3</sup>	Nil	N/A	N/A
Chemical waste disposed, <b>kg</b>	Nil	17718	N/A
Marine Sediment (Type 1 – Open Sea Disposal) , <b>m</b> <sup>3</sup>	Nil	65663	South Cheung Chau

 Table 5.18 Details of Waste Disposal for Contract no. HK/2009/02

<u>Contract no. HY/2009/18 – Central – Wan Chai Bypass (CWB) – Central Interchange under FEP-05/364/2009/A</u>

5.4.3. Inert C&D and non-inert C&D waste was disposed of in this reporting period. Details of the waste flow table are summarized in *Table 5.19*.

Waste Type	Quantity this month	Cumulative-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, <b>m</b> ³	Nil	1415580.18	T.K.O. 137, TM 38
Inert C&D materials recycled, <b>m</b> ³	Nil	58787.05	N/A
Non-inert C&D materials disposed, <b>m</b> ³	Nil	4572.26	SENT Landfill
Non-inert C&D materials recycled <b>, ton</b>	Nil	878.37	N/A
Chemical waste disposed, <b>kg</b>	Nil	6772	N/A



<u>Contract no. HY/2009/15 – Central-Wanchai Bypass – Tunnel (Causeway Bay Typhoon</u> <u>Shelter Section) under FEP-06/364/2009/A</u>

5.4.4. Inert & Non-inert C&D wastes were disposed of in this reporting period. Details of the waste flow table are summarized in *Table 5.20*.

Waste Type	Quantity this month	Cumulative Quantity-to- Date	Disposal / Dumping Grounds
Inert C&D materials	Nil	625200.92	Tuen Mun Area 38
disposed, <b>m</b> <sup>3</sup>	Nil	245453.3	TKO137 FB
			HY/2009/11
			ex-PCWA
			TS4 /TS2
Inert C&D materials recycled, <b>m</b> <sup>3</sup>	Nil	358660.77	WDII
,,			Lun Ku Tan
			WENT
			HY/2010/08
Non-inert C&D	Nil	4675.67	SENT Landfill
materials disposed, <b>m</b> <sup>3</sup>	Nil	1.58	WENT Landfill
Non-inert C&D materials recycled <b>, m</b> <sup>3</sup>	Nil	5496446.2	Xun Xiang Metalware Skylight Recycle (paper)
Chemical waste disposed <b>, kg</b>	Nil	22755	Dunwell Group
Marine Sediment (Type1-Open Sea Disposal (Dedicate Sites) &Type 2 – Confined Marine Disposal), <b>m</b> <sup>3</sup>	Nil	5684	South of the Brothers

Table 5.20	Details of Waste Dis	posal for Contract no.	HY/2009/15



Contract no. HY/2009/19 – Central – Wanchai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link under FEP-07/364/2009/D

5.4.5. Inert and Non-inert C&D wastes were disposed of in this reporting period. Details of the waste flow table are summarized in *Table 5.21*.

Waste Type	Quantity this month	Cumulative-to- Date	Disposal / Dumping Grounds
Inert C&D materials disposed, <b>ton</b>	604.3	782023.13	TM38
Inert C&D materials recycled, <b>ton</b>	Nil	82349.7	N/A
Non-inert C&D materials disposed, <b>ton</b>	150.93	6789.87	SENT Landfill
Non-inert C&D materials recycled, <b>ton</b>	Nil	565.63	N/A
Chemical waste disposed, <b>kg</b>	0.36	11.26	N/A
Marine Sediment (Tunnel) (Type-1 Open Sea Disposal), <b>m</b> <sup>3</sup>	Nil	20737.96	South of Cheung Chau
Marine Sediment (Tunnel) (Type 1- Open Sea Disposal (Dedicated Sites) & Type 2 – Confined Marine Disposal), <b>m</b> <sup>3</sup>	Nil	30751	East of Sha Chau
Marine Sediment (Approach Ramp) (Type 2 – Confined Marine Disposal), m3	Nil	6491	East of Sha Chau

#### Table 5.21 Details of Waste Disposal for Contract no. HY/2009/19



<u>Contract no. HK/2012/08 Wan Chai Development Phase II - Central-Wan Chai Bypass at</u> <u>Wan Chai West under FEP-12/364/2009/D</u>

5.4.6. No inert and Non-inert C&D wastes were disposed of in this reporting period. Details of the waste flow table are summarized in *Table 5.22*.

Waste Type	Quantity this month*	Cumulative-to-Date	Disposal / Dumping Grounds
Inert C&D materials	21	183652	TKO 137
disposed, <b>m</b> <sup>3</sup>	63	117018	TM38
Inert C&D materials recycled, <b>m</b> <sup>3</sup>	Nil	Nil	N/A
Non-inert C&D materials disposed, <b>m</b> <sup>3</sup>	40	8812	SENT
Non-inert C&D materials recycled, <b>m</b> <sup>3</sup>	Nil	Nil	N/A
Chemical waste disposed <b>, kg</b>	Nil	Nil	N/A
Marine sediment (Type 1) disposal, <b>m</b> ³	Nil	3145	South of Cheung Chau / East of Sha Chau / South of The Brothers

#### Table 5.22 Details of Waste Disposal for Contract no. HK/2012/08

Remarks\*: The quantity of inert C&D material disposed, recycled, non-inert C&D material disposed, recycled are reported up to calendar month of February 2018.



Contract no. HY/2010/08 Central – Wan Chai Bypass (CWB) – Tunnel (Slip Road 8) under FEP-10/364/2009/B

5.4.7. No inert and Non-inert C&D wastes were disposed of in this reporting period. Details of the waste flow table are summarized in *Table 5.23*.

Table 5.23 Details of Waste Disposal for Contract no. HY/2	010/08

Waste Type*	Quantity this month	Cumulative-to-Date	Disposal / Dumping Grounds
	144.178	591364.18	TM 38/ CW
Inert C&D materials	Nil	262656.6	WENT
disposed, <b>m</b> <sup>3</sup>	Nil	82911.8	SENT
	Nil	72704.53	TKO area 137
Inert C&D materials recycled, <b>m</b> ³	Nil	Nil	N/A
Non-inert C&D materials disposed <b>, m</b> <sup>3</sup>	40.62	5895.18	SENT / WENT
Non-inert C&D materials recycled, <b>m</b> <sup>3</sup>	Nil	Nil	N/A
Chemical waste disposed <b>, kg</b>	Nil	1431	N/A
Type 1 – Open Sea Disposal, <b>m</b> ³	Nil	16368.4	East Sha Chau/ South Brothers Island
Type 2 – Confined Marine disposal, <b>m</b> ³	Nil	549.2	East Sha Chau

<u>Contract no. HY/2011/08 Central – Central - Wan Chai Bypass (CWB) – Tunnel Buildings,</u> <u>Systems and Fittings, and Works Associated with Tunnel Commissioning under FEP-</u> <u>11/364/2009/E</u>

5.4.8. No inert and Non-inert C&D wastes were disposed of in this reporting period. Details of the waste flow table are summarized in *Table 5.24*.

#### Table 5.24 Details of Waste Disposal for Contract no. HY/2011/08

Waste Type*	Quantity this month	Cumulative-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, <b>m</b> ³	286.88	4008.42	CWPF & TKO137
Inert C&D materials recycled, <b>m</b> <sup>3</sup>	Nil	Nil	N/A
Non-inert C&D materials disposed, <b>m</b> <sup>3</sup>	324.6	5886.36	SENT
Non-inert C&D materials recycled, <b>ton</b>	Nil	31.72	N/A
Chemical waste disposed, <b>kg</b>	Nil	3800	N/A



#### 6 COMPLIANCE AUDIT

6.0.1. The Event Action Plan for construction noise, air qualities are presented in Appendix 6.1.

#### 6.1 Noise Monitoring

Contract no. HY/2009/18 – Central – Wan Chai Bypass (CWB) – Central Interchange under FEP-05/364/2009/A

6.1.1. No exceedance was recorded in the reporting period.

<u>Contract no. HK/2009/01 – Wan Chai Development Phase II – Central – Wan Chai Bypass at</u> <u>Hong Kong Convention Exhibition Centre – Tunnel Works under FEP-02/364/2009</u>

6.1.2. One limit level exceedance was recorded at M1a – Footbridge for Harbour Road Sports Center on 02 February 2018 and the exceedance was concluded as non-Project related.

<u>Contract no. HK/2009/02 – Wan Chai Development Phase II – Central – Wan Chai Bypass at</u> <u>Wan Chai East (CWB Tunnel) under FEP-01/364/2009</u>

6.1.3. One limit level exceedances were recorded at M1a – Footbridge for Harbour Road Sports Center on 02 February 2018 and the exceedances was concluded as non-Project related.

<u>Contract no. HY/2009/19 – Central – Wanchai Bypass Tunnel (North Point Section) and</u> <u>Island Eastern Corridor Link under FEP-07/364/2009/D</u>

6.1.4. No exceedance was recorded in the reporting period.

<u>Contract no. HY/2010/08 – Central-Wanchai Bypass – Tunnel (Slip Raod 8 Section) under FEP-10/364/2009/B</u>

6.1.5. No exceedance was recorded in the reporting period.

<u>Contract no. HY/2011/08 Central –Central - Wan Chai Bypass (CWB) –Tunnel Buildings,</u> <u>Systems and Fittings, and Works Associated with Tunnel Commissioning under FEP-11/364/2009/E</u>

6.1.6. No exceedance was recorded in the reporting period.



#### Real Time Noise Monitoring

<u>Contract no. HY/2009/19 – Central – Wanchai Bypass Tunnel (North Point Section) and</u> <u>Island Eastern Corridor Link under FEP-07/364/2009/D</u>

- 6.1.7. No limit level exceedance was recorded at RTN1 FEHD Hong Kong Transport Section Whitfield Depot in the reporting period.
- 6.1.8. No limit level exceedance was recorded at RTN2a Hong Kong Electric Centre in the reporting period
- 6.1.9. Limit level exceedance was recorded on 10 and 26 February 2018 at RTN3 Yu Lee Mo Fan Memorial School was recorded in the reporting period and the exceedances were concluded as non-Project related.
- 6.1.10. No limit level exceedance was recorded at RTN4- Causeway Bay Community Centre was recorded in the reporting period.

<u>Contract no. HY/2011/08 Central – Central - Wan Chai Bypass (CWB) – Tunnel Buildings,</u> <u>Systems and Fittings, and Works Associated with Tunnel Commissioning under FEP-11/364/2009/E</u>

- 6.1.11. No limit level exceedance was recorded at RTN1-FEHD Hong Kong Transport Section Whitfield Depot in the reporting period.
- 6.1.12. No limit level exceedance was recorded at RTN2a Hong Kong Electric Centre in the reporting period
- 6.1.13. No limit level exceedance was recorded at RTN4- Causeway Bay Community Centre was recorded in the reporting period.



#### 6.2 Air Quality Monitoring

Contract no. HY/2009/18 – Central – Wan Chai Bypass (CWB) – Central Interchange under FEP-05/364/2009/A

6.2.1. No exceedance was recorded in the reporting period.

<u>Contract no. HK/2009/01 – Wan Chai Development Phase II – Central – Wan Chai Bypass at</u> Hong Kong Convention and Exhibition Centre – Tunnel Works under FEP-02/364/2009

6.2.2. No exceedance was recorded in the reporting period.

<u>Contract no. HK/2009/02 – Wan Chai Development Phase II – Central – Wan Chai Bypass at</u> Wan Chai East (CWB Tunnel) under FEP-01/364/2009

6.2.3. No exceedance was recorded in the reporting period.

<u>Contract no. HY/2009/19 – Central – Wanchai Bypass Tunnel (North Point Section) and</u> <u>Island Eastern Corridor Link under FEP-07/364/2009/D</u>

6.2.4. No exceedance was recorded in the reporting period.

<u>Contract no. HK/2012/08 Wan Chai Development Phase II - Central-Wan Chai Bypass at</u> <u>Wan Chai West under FEP-12/364/2009/D</u>

6.2.5. No exceedance was recorded in the reporting period.

<u>Contract no. HY/2010/08 – Central-Wanchai Bypass – Tunnel (Slip Raod 8 Section) under FEP-10/364/2009/B</u>

6.2.6. No exceedance was recorded in the reporting period.

<u>Contract no. HY/2011/08 Central – Central - Wan Chai Bypass (CWB) – Tunnel Buildings,</u> <u>Systems and Fittings, and Works Associated with Tunnel Commissioning under FEP-11/364/2009/E</u>

6.2.1 No exceedance was recorded in the reporting period.



#### 6.3 Review of the Reasons for and the Implications of Non-compliance

6.3.1 There was no non-compliance from the site audits in the reporting period. The observations and recommendations made in each individual site audit session were presented in Section 8.

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

6.4.1 No particular action taken was taken for site audits since no non-compliance was recorded in



#### 7 CUMULATIVE CONSTRUCTION IMPACT DUE TO THE CONCURRENT PROJECTS

- 7.0.1. According to Condition 3.4 of the EP-364/2009/E, this section addresses the relevant cumulative construction impact due to the concurrent activities of the current projects including the Central Reclamation Phase III (CRIII), Wan Chai Development Phase II (WDII), Central-WanChai Bypass (CWB), Island Eastern Corridor Link projects (IECL) and Wan Chai Development Phase II Central Wan Chai Bypass at Wan Chai East (CWB Tunnel).
- 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. As such, it is considered that there were no cumulative construction impact due to the concurrent activities of the current projects with the Central Reclamation Phase III (CRIII) undertaken by contractor HK12/02 in the reporting period.
- 7.0.3. According to the construction programme of Central-Wanchai Bypass at Wanchai West at the Central Reclamation Phase III area include roadworks, back-filling, reinstatement of culvert K, drainage and trimming of rock level were performed in February 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 preparation of temporary reclamation at Wan Chai West and Wan Chai East. The major construction activities under Central-Wan Chai Bypass and Island Eastern Corridor Link Projects were drainage works and ventilation building construction at Central; reinstatement works at Causeway Bay, road works at Victoria Park; bridge construction, approach ramp construction and 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 was observed undertaken at Wan Chai North and North Point area.
- 7.0.5. As relevant site mitigation measures for air quality and construction noise were implemented, no significant air quality impact and noise impact from construction activities was concluded in the reporting period. Besides, no project related exceedance was recorded during the air quality and noise environmental monitoring events in the reporting period. Thus, it is evaluated that the cumulative construction impact from the concurrent projects including Central Reclamation Phase III (CRIII), Wan Chai Development Phase II (WDII), Central-WanChai Bypass (CWB), Island Eastern Corridor Link projects (IECL) was insignificant.



#### 8 ENVIROMENTAL SITE AUDIT

- 8.0.1. During this reporting period, weekly environmental site audits were conducted for Contracts HY/2009/18, HY/2009/19, HK/2012/08, HK/2009/01, HK/2009/02, HY/2010/08 and HY/2011/08. No non-conformance was identified during the site audits. The Contractors rectified major observations and recommendations made during the audit sessions.
- 8.0.2. Site inspections for Contract no. HY/2009/18 were carried out during this reporting period. No observation was found in the reporting period
- 8.0.3. Site inspections for Contract no. HY/2009/19 were carried out during this reporting period. The results of these inspections and outcomes are summarized in *Table 8.3.*

ltem	Date	Observations	Action taken by Contractor	Completion date
180207_1	7-Feb-18	Contractor shall enhance the dust mitigation measure to avoid dust emission from dusty surface (Portion 3)	Watering was provided to dusty surface	Completion as observed on 14 February 2018

 Table 8.3
 Summary of Environmental Inspections for Contract no. HY/2009/19

- 8.0.4. Site inspections for Contract no. HK/2009/01 was carried out during this reporting period. No observation was found in the reporting period.
- 8.0.5. Site inspections for Contract no. HK/2009/02 were carried out during this reporting period. No observation was found in the reporting period.
- 8.0.6. Site inspection for Contract no. HK/2012/08 were carried out during this reporting period. The results of these inspections and outcomes are summarized in *Table 8.6.*

12/08

ltem	Date	Observations	Action taken by Contractor	Completion date
180206_01	6-Feb-18	Watering or covering shall be provided to stockpile stored on-site (Zone C)	Watering was provided to the concerned stockpile	Completion as observed on 13 February 2018
180213_01	13-Feb-18	Watering and covering shall be provided to stockpile stored on-site (Zone C-E and Zone C- W)	Covering was provided to the concerned stockpile	Completion as observed on 22 February 2018
180222_1	22-Feb-18	Contractor shall critically review the operation of wastewater treatment system to ensure the discharge quality fulfill the discharge license requirement (Lung King Street)	Wastewater treatment unit was observed operated normally.	Completion as observed on 27 February 2018



8.0.7. Site inspections for Contract no. HY/2010/08 were carried out during this reporting period. No observation was found in the reporting period.

ltem	Date	Observations	Action taken by Contractor	Completion date
180209_1	9-Feb-18	Contractor shall enhance the condition of tree protection zone and avoid storage of construction material inside tree protection zone (Victoria Park)	The condition of tree protection zone was enhanced	Completion as observed on 14 February 2018

#### Table 8.7 Summary of Environmental Inspections for Contract no. HY/2010/08

8.0.8. Site inspections for Contract no. HY/2011/08 were carried out during this reporting period. No observation was found in the reporting period.



#### 9 COMPLAINTS, NOTIFICATION OF SUMMONS AND PROSECUTION

- 9.0.1. One environmental complaints was received in the reporting period.
- 9.0.2. An ICC complaint referred by RSS was received by ET on 06 February 2018 (CASE#2-4459226093). The complainant reported that there is concern on an observed severely tilted tree with potential felling hazard. No fencing, no tree pit, trench and no irrigation pipe is observed.

ET confirmed with Resident Site Staff that the concerned tree is within the works area of HY/2010/08 and one of the roots of the concerned tree (*Liquidambar formosana*) to have suffered minor damaged by the nearby excavation works.

Remedial works including i) nylon reinforcement ropes has been added to the existing 3 nos. of tying cables and covering of the slope surface with wet hessian for protection were carried out for the damaged root of the tree. Follow up inspection was conducted by the Environmental Team on 09 February 2018. It was observed that the concerned tree has been fortified and protected for restoration and no tilting was observed.

In view of the nearby construction works, the Contractor is suggested to demarcate the tree protection zone for the concerned tree and fence off the tree protection zone to avoid further damage and placing of construction material, if feasible. The Contractor is also suggested to provide refreshment training for frontline works for tree protection, in particular, for trees retained of site in close proximity to active works front to avoid potential damage to retained trees.



The details of cumulative complaint log and updated summary of complaints are presented in 9.0.3. Appendix 9.1

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9.0.4. Cumulative statistic on complaints and successful prosecutions are summarized in Table 9.1 and Table 9.2 respectively.

Reporting Period	No. of Complaints	
February 2018	1	
September 2010 – January 2018	91	
Total	92	

#### Table 9.1 Cumulative Statistics on Complaints

Table 9.2         Cumulative Statistics on Successful Prosecutions			
Environmental Parameters	Cumulative No. Brought Forward	No. of Successful Prosecutions this month (Offence Date)	Cumulative No. Project-to-Date
Air	1	0	1
Noise	1	0	1
Water	0	0	0
Waste	0	0	0
Total	2	0	2

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#### 10 CONCLUSION

- 10.0.1. The EM&A programme was carried out in accordance with the EM&A Manual requirements, minor alterations to the programme proposed were made in response to changing circumstances.
- 10.0.2. The scheduled construction activities and the recommended mitigation measures for the coming month are listed in *Table 10.1*. The construction programmes of individual contracts are provided in *Appendix 10.1*.

# Table 10.1 Summary of Key Construction Activities of Individual Contract(s) to be commenced in Coming Reporting period

Contract No.	Key Construction Works	Recommended Mitigation Measures
HY/2009/18	Maintenance works	<ul> <li>Dust control during dust generating activities</li> <li>Provide protection works to ensure no runoff out of site area or direct discharge into public drainage system.</li> </ul>
HY/2009/19	<ul> <li>Approach ramp structure Construction.</li> <li>Bridge Construction &amp; installation of enclosure.</li> <li>Retaining wall construction.</li> <li>FEHD re-provision works.</li> <li>Oil Street drainage works.</li> <li>Installation of skin parapet on TB bridge at Pier 15-17.</li> <li>Landscape deck, column &amp; pile cap foundation works.</li> <li>Watson Road Watermains laying works.</li> <li>EVA at EVB.</li> <li>Hing Fat Street road an d drainage works</li> </ul>	<ul> <li>Noise level shall be controlled by reducing the breaking operation rate.</li> <li>Noise barrier shall be implemented</li> <li>Dust control during dust generating works</li> <li>Provide protection works and adequate drainage system to ensure no direct discharge into public drainage system or the sea.</li> </ul>
HK/2009/01	Reinstatement of amenity area	Dust control during dust generating works





	-	
HK/2012/08	<ul> <li>Construction of Slip Road 1</li> <li>Construction of drainage</li> <li>Asphalt paving</li> <li>Sewer diversion</li> <li>Construction of roundabout</li> </ul>	<ul> <li>Dust control during dust generating works</li> <li>Provide protection works and adequate drainage system to ensure no direct discharge into public drainage system.</li> </ul>
HY/2010/08	<ul> <li>Construction of Slip Road 1</li> <li>Construction of drainage</li> <li>Asphalt paving</li> <li>Sewer diversion</li> <li>Construction of roundabout</li> </ul>	<ul> <li>Dust control during dust generating works and stockpile stored on site.</li> <li>Appropriate measures should be taken to ensure adequate protections are provided for trees being transplanted and retained on site.</li> <li>Provision of protection to ensure no runoff out of site area or direct discharge into public drainage system.</li> </ul>
HY/2011/08	<ul> <li>Construction of Ventilation Buildings, inclusive of Administration Building, Central Ventilation Building, East Ventilation Shaft/Building, West Ventilation Building</li> <li>Application of Thermal Barrier inside the Tunnel, asphalt pavement</li> <li>Installation of Electricals and Mechanicals</li> <li>Installation of Tunnel Features</li> </ul>	Dust control during dust generating works

- 10.0.3. The construction works of Contract no. 04/HY/2006 Reconstruction of Bus Terminus near Man Yiu Street and Man Kwong Street under FEP-04/364/2009/A was completed, and the FEP was surrendered by the Contractor on 11 February 2011.
- 10.0.4. The construction works of Contract no. HY/2009/17 Advance piling works at Whitfield Depot under FEP-03/264/2009 was completed, and the FEP was surrendered by the Contractor and found in order by EPD on 25 April 2013.
- 10.0.5. The construction works of Contract HK/2010/06 was completed, and the FEP-08/364/2009/A was surrendered by the Contractor on 3 October 2014.
- 10.0.6. The Construction works under HY/2009/15 was confirm completed by the RSS from 27 October 2017 onwards.



Figure 2.1

Project Layout

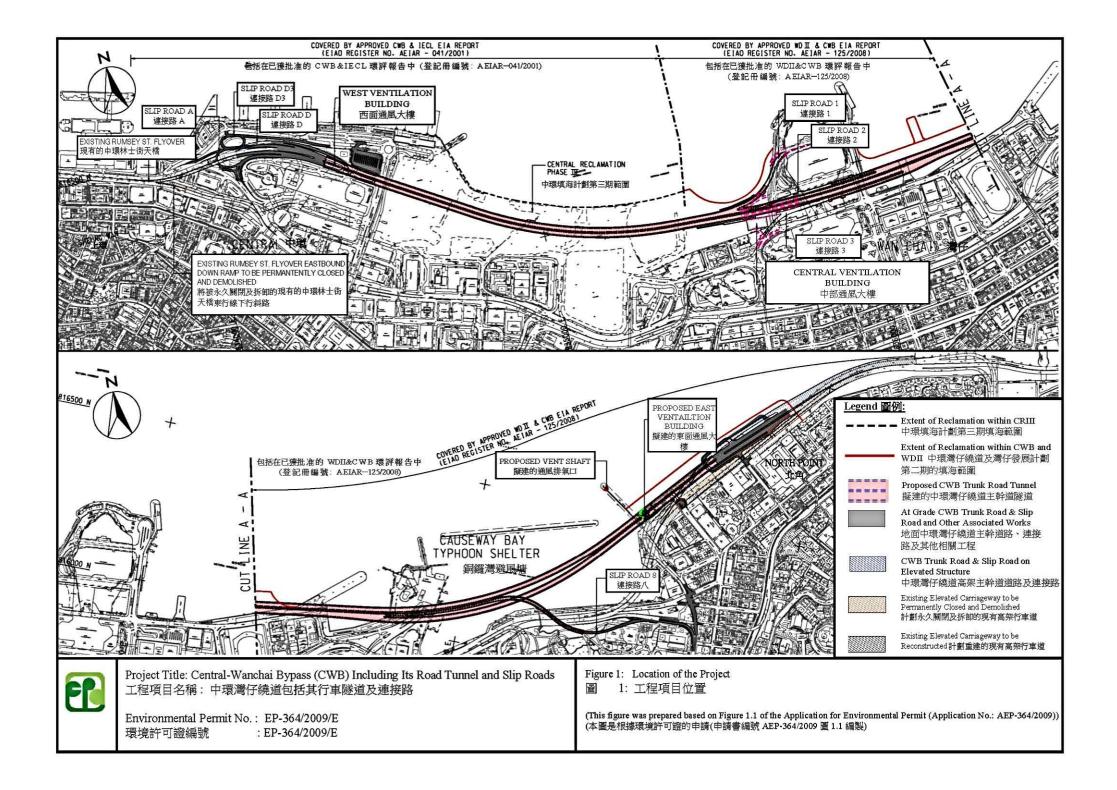




Figure 2.2

**Project Organization Chart** 



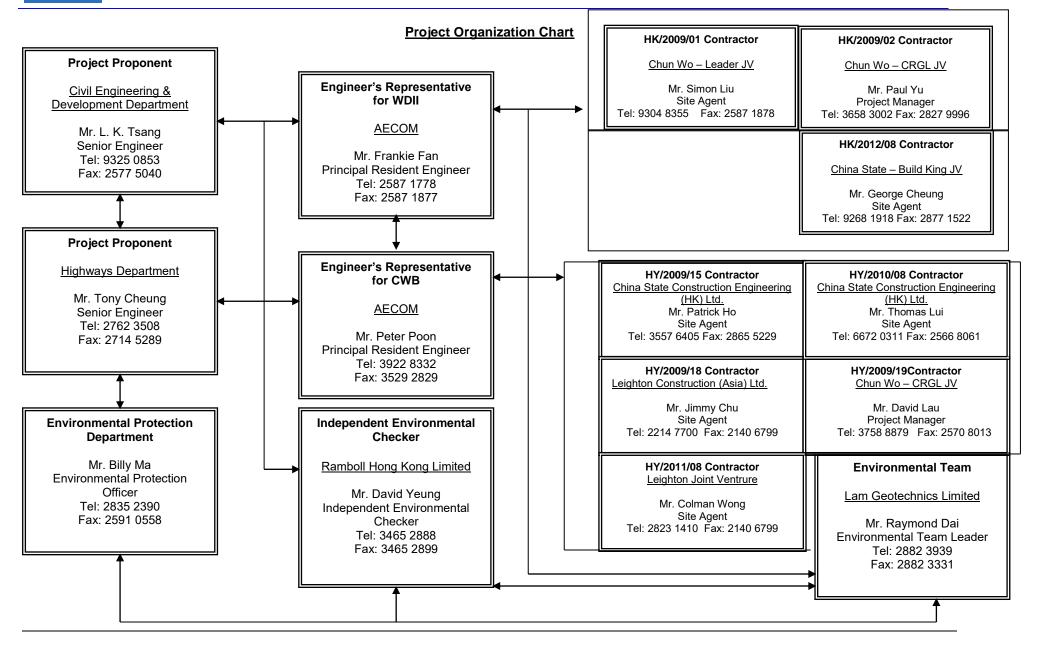
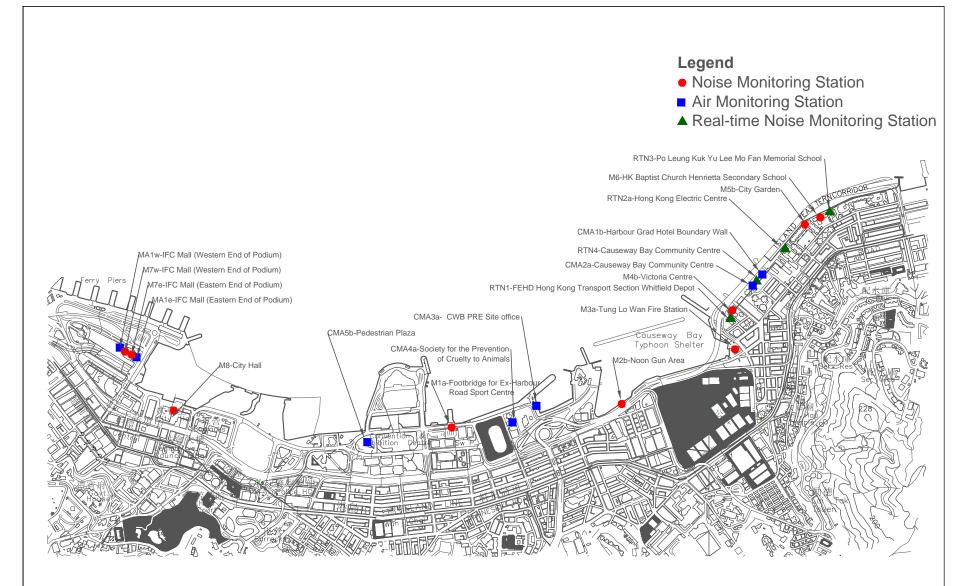




Figure 4.1

Locations of Monitoring Stations



# LOCATIONS OF AIR QUALITY AND NOISE MONITORING STATIONS



Appendix 3.1

Environmental Mitigation Implementation Schedule

# Table A.1 Implementation Schedule for Air Quality Control

WDII & CWB EIA	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In		ientat ges*	ion	Relevant Legislation and Guidelines
Report Ref	Environmental Frotection wieasures / winigation wieasures	Location / Timing	Agent	Des	С	0	Dec	
Constructio	n Phase							
\$3.6.5	Four times a day watering of the work site with active operations.	Work site / during construction	Contractor		$\checkmark$			EIAO-TM
\$3.8.1	<ul> <li>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.</li> <li>Strictly limit the truck speed on site to below 10 km per hour and water spraying to keep the haul roads in wet condition;</li> <li>Watering during excavation and material handling;</li> <li>Provision of vehicle wheel and body washing facilities at the exit points of the site, combined with cleaning of public roads where necessary; and</li> <li>Tarpaulin covering of all dusty vehicle loads transported to, from and between site locations.</li> </ul>	Work site / during construction	Contractor		V			
Operational								
83.6.53 – 83.6.54	The design parameters of the East and Central Ventilation Buildings as set in Tables 3.10 and 3.11 of Volume 1 of the WDII & CWB EIA Report.	East and Central Ventilation Buildings / During operation of the Trunk Road	HyD			$\checkmark$		
\$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

# Contract No. HK/2015/01

Wanchai Development Phase II and Central Wanchai Bypass Sampling, Field Measurement and Testing Work (Stage 3)

# Table A.2Implementation Schedule for Noise Control

WDII & CWB EIA	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Im		ientat ges*	ion	Relevant Legislation
Report Ref	Environmental i rotection ivicasures / ivitigation ivicasures	Docation / Thining	Agent	Des	С	0	Dec	and Guidelines
Constructio	on Phase							
S4.9.3	Good Site Practice:	Work Sites / During	Contractor		$\checkmark$			EIAO-TM, NCO
	• Only well-maintained plant shall be operated on-site and plant shall be serviced regularly during the construction program.	Construction						
	• Silencers or mufflers on construction equipment shall be utilized and shall be properly maintained during the construction program.							
	• Mobile plant, if any, shall be sited as far away from NSRs as possible.							
	• Machines and plant (such as trucks) that may be in intermittent use shall be shut down between works periods or shall be throttled down to a minimum.							
	• Plant known to emit noise strongly in one direction shall, wherever possible, be orientated so that the noise is directed away from the nearby NSRs.							
	• Material stockpiles and other structures shall be effectively utilized, wherever practicable, in screening noise from on- site construction activities.							
S4.8.1 – S4.8.11	<ul> <li>Use of quiet powered mechanical equipment, movable noise barrier and temporary noise barrier for the following tasks:</li> <li>Slip road 8 tunnel</li> <li>Construction of diaphragm wall and substructures of the tunnel approach ramp</li> <li>Excavation</li> <li>Construction of slabs</li> <li>Backfill</li> </ul>	Work Sites / During Construction	Contractor		V			EIAO-TM, NCO

# Contract No. HK/2015/01

# Wanchai Development Phase II and Central Wanchai Bypass Sampling, Field Measurement and Testing Work (Stage 3)

WDII & CWB EIA	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Im		nentat ges*	ion	Relevant Legislation
Report Ref	Environmental i rotection ivitasures / ivitigation ivitasures	Location / Thining	Agent	Des	С	0	Dec	and Guidelines
	<ul> <li>Demolition and construction of substructures for the IEC</li> <li>Demolition works of existing piers and crossheads of the marine section of the existing IEC</li> <li>Use of PME grouping for the following tasks:</li> <li>At-grade road construction</li> <li>Substructure for IECL connection</li> </ul>							
Operation I	Phase							
S4.8.12 – S4.8.23	<ul> <li>For Existing NSRs</li> <li>about 235m length of noise semi-enclosure with transparent panel covering the westbound slip road from the IEC</li> <li>about 230m length of noise semi-enclosure with transparent panel covering the main carriageways (eastbound and westbound) of the CWB and IEC</li> <li>about 135m length of 5.5m high cantilevered noise barrier with 4.5m cantilever inclined at 45° with transparent panel on the eastbound slip road to the IEC (amended under EP-364/2009/A)</li> <li>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</li> <li>about 350m length of 3.5m high vertical noise barrier with transparent panel on the eastbound slip road to the IEC</li> <li>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</li> </ul>	Near North Point / Before commencement of operation of road project	HyD	V	V	V		EIAO-TM

Monthly EM&A Report

WDII & CWB EIA	Environmental Protection Measures / Mitigation Measures	Location / Timing Implementation		Implementation Stages*				Relevant Legislation
Report Ref	In momentaria roccoson neusaros / magavion neusaros	Location / Thining	Agent	Des	С	0	Dec	and Guidelines
	<ul> <li>For Future/Planned NSRs</li> <li>about 265m length of noise semi-enclosure with transparent panel covering the westbound slip road from the IEC</li> </ul>	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	V	√ #			
	• The openable windows of the temple, if any, should be orientated so as to avoid direct line of sight to the existing Victoria Park Road as far as practicable.	Near Causeway Bay Fire Station / During detailed design of the re- provisioned Tin Hau Temple	Project Proponent for the re-provisioned Tin Hau Temple	$\checkmark$				

\* 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.

### Contract No. HK/2015/01

Wanchai Development Phase II and Central Wanchai Bypass Sampling, Field Measurement and Testing Work (Stage 3)

 Table A.4
 Implementation Schedule for Waste Management

WDII & CWB EIA	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	nplem Stag	entatio ges*	on	Relevant Legislation
Report Ref	Environmental Frotection Measures / Mitigation Measures	Location / Timing	Agent	Des	С	0	Dec	and Guidelines
Constructio	n Phase							
S6.5.14	<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 D9.3.	Work site / During the construction period	Contractor		$\checkmark$			
S6.6.1	<ul> <li><i>Good Site Practices</i></li> <li>Recommendations for good site practices during the construction activities include:</li> <li>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;</li> <li>training of site personnel in proper waste management and chemical waste handling procedures;</li> <li>provision of sufficient waste disposal points and regular collection for disposal;</li> <li>appropriate measures to minimise windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers;</li> <li>regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors; and</li> <li>a recording system for the amount of wastes generated, recycled and disposed of (including the disposal sites).</li> </ul>	Work site / During the construction period	Contractor		$\checkmark$			Waste Disposal Ordinance (Cap.354)

WDII & CWB EIA	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	nplem Sta	entati ges*	on	Relevant Legislation
Report Ref	Environmental i roccuon measures / mulgation measures	Location / Thinng	Agent	Des	С	0	Dec	and Guidelines
Ref \$6.6.2	<ul> <li>Waste Reduction Measures</li> <li>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: <ul> <li>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;</li> <li>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;</li> <li>any unused chemicals or those with remaining functional capacity shall be recycled;</li> <li>use of reusable non-timber formwork, such as in casting the tunnel box sections, to reduce the amount of C&amp;D material.</li> <li>prior to disposal of C&amp;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;</li> <li>proper storage and site practices to minimise the potential for damage or contamination of construction materials; and</li> <li>plan and stock construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste.</li> </ul> </li> </ul>	Work site / During planning and design stage, and construction stage	Contractor					

WDII & CWB EIA	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	nplem Sta	entati ges*	on	Relevant Legislation and Guidelines
Report Ref	Environmental Frotection Measures / Mitigation Measures	Location / Timing	Agent	Des	С	0	Dec	
S6.6.4	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)
S6.6.5	<i>Chemical Wastes</i> 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
S6.6.6	<i>Construction and Demolition Material</i> 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

Monthly EM&A Report

WDII & CWB EIA	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	ıplem Staş	entati ges*	on	Relevant Legislation
Report Ref	Environmental i foccitor measures / mitigation measures	Location / Thinnig	Agent	Des	С	0	Dec	and Guidelines
S6.6.7	In order to monitor the disposal of public fill and C&D waste at public fill reception facilities and landfills, respectively, and to control fly tipping, a trip-ticket system shall be included as one of the contractual requirements and implemented by the Environmental Team undertaking the environmental monitoring and audit work. An Independent Environment Checker shall be responsible for auditing the results of the system.	Work site / During the construction period	Contractor and Independent Environmental Checker		V			ETWB TCW No. 31/2004
S6.6.8	<ul> <li>Bentonite Slurry</li> <li>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:</li> <li>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.</li> <li>If the used bentonite slurry is intended to be disposed of through the public drainage system, it shall be treated to the</li> </ul>	Work site / During the construction period	Contractor		$\checkmark$			ProPECC PN 1/94
	<ul> <li>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.</li> </ul>							

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

Table A.5	Implementation Schedule for Land Contamination
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WDII & CWB EIA	Environmental Protection Measures / Mitigation Measures Location / Timing		In	-	entati ges*	on	Relevant Legislation	
Report Ref		Location / Thining	Agent		С	0	Dec	and Guidelines
Constructio	on and Operation Phase							
S.7.1.1	As no potential contaminative land uses were identified within the Study Area, adverse land contamination impacts associated with the construction and operation of the Project is not expected. As such, environmental protection and mitigation measures are considered not necessary and will not be covered in this EM&A Manual.	-	-					-

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

WDII & CWB EIA	<b>Environmental Protection Measures / Mitigation Measures</b>	Location / Timing	Implementation Agent	In	nplem Sta	entati ges*	on	Relevant Legislation and Guidelines
Report Ref				Des	С	0	Dec	
Construction P	hase		-					
Table 10.5	CM1 Topsoil, where identified, shall be stripped and stored f re-use in the construction of the soft landscape work where practical.		Contractor	$\checkmark$	$\checkmark$			EIAO TM
Table 10.5	CM2 Existing trees to be retained on site shall be careful protected during construction.	ly Work site / During Construction Phase	Contractor	$\checkmark$	$\checkmark$			EIAO TM
Table 10.5	CM3 Trees unavoidably affected by the works shall transplanted where practical.	Work site / During Construction Phase	Contractor	$\checkmark$	$\checkmark$			EIAO TM
Table 10.5	CM4 Compensatory tree planting shall be provided compensate for felled trees.	to Work site / During Construction Phase	Contractor		$\checkmark$			EIAO TM
Table 10.5	CM5 Control of night-time lighting.	Work site / During Construction Phase	Contractor		$\checkmark$			EIAO TM
Table 10.5	CM6 Erection of decorative screen hoarding compatible with t surrounding setting.	Work site / During Construction Phase	Contractor		$\checkmark$			EIAO TM
<b>Operation Pha</b>								
Table 10.6, Figure 10.5.1- 10.5.5	OM1 Aesthetic design of buildings and road-related structure including viaducts, vent buildings, subways, footbridg and noise barriers and enclosure.		HyD		$\checkmark$	$\checkmark$		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1- 10.5.5	OM3 Buffer Tree and Shrub Planting to screen proposed roa and associated structures.	ds Work site / During Design Stage and Operation Phases	HyD	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	HyD	V	$\checkmark$	$\checkmark$		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1- 10.5.5	OM6 Aesthetic design of roadside amenity areas.	Work site / During Design Stage and Operation Phases	HyD	$\checkmark$				ETWB TCW 2/2004

# Table A.7 Implementation Schedule for Landscape and Visual

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



Appendix 4.1

Action and Limit Level



# Action and Limit Level

### Action and Limit Level for Noise Monitoring

Time Period	Action Level	Limit Level
07:00 – 19:00 hours on normal weekdays	When one documented complaint is received.	75 dB(A)/ 70 dB(A)/ 65 dB(A) <sup>Note 1</sup>

Note 1:

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

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

# Action and Limit Level for Air Quality Monitoring

Monitoring Location	1-hour TSP Level	in $\mu$ g/m <sup>3</sup>	24-hour TSP Level in $\mu$ g/m <sup>3</sup>		
	Action Level Limit Level		Action Level	Limit Level	
CMA1b	320.1	500	176.7	260	
CMA2a	323.4	500	169.5	260	
CMA3 a	311.3	500	171.0	260	
CMA4a	312.5	500	171.2	260	
CMA5b	332.0	500	181.0	260	
MA1e	325.1	500	173.4	260	
MA1w	325.1	500	173.4	260	



Appendix 4.2

**Copies of Calibration Certificates** 



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

## ORIFICE TRANSFER STANDARD CERTIFICATION WORKSHEET TE-5025A

Date - Mar 20, 2017 Rootsmeter S/N0438320Ta (K) -293Operator TischOrifice I.D0005Pa (mm) -759.46									
PLATEVOLUMEVOLUMEDIFFDIFFDIFFORSTARTSTOPVOLUMETIMEHgH2ORun #(m3)(m3)(min)(mm)(in.)									
1 2 3 4 5	NA NA NA NA NA	NA NA NA NA NA	1.00 1.00 1.00 1.00 1.00	1.3960 0.9970 0.8910 0.8500 0.6990	3.2 6.4 7.8 8.7 12.7	2.00 4.00 5.00 5.50 8.00			

### DATA TABULATION

Vstd	(x axis) Qstd	(y axis)		Va	(x axis) Qa	(y axis)
1.0120 1.0078 1.0058 1.0047 0.9993	0.7249 1.0108 1.1288 1.1820 1.4296	$ \begin{array}{r} 1.4257\\2.0163\\2.2543\\2.3643\\2.8514\end{array} $		0.9958 0.9916 0.9896 0.9885 0.9832	0.7133 0.9946 1.1107 1.1630 1.4066	0.8784 1.2423 1.3889 1.4567 1.7568
Qstd slop intercept coefficie	(b) = ent (r) =	2.02533 -0.03593 0.99983	n e n	Qa slope intercept coefficie	c (b) = ent (r) =	1.26823 -0.02214 0.99983
y axis =	SQRT [H2O (B	2a/760)(298/	[a)]	y axis =	SQRT [H20 (7	[a/Pa)]

### CALCULATIONS

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

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

For subsequent flow rate calculations:

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



Location

CMA1b

# **Calibration Date**

Equipment no.

HVS001

:

17-Jan-18

### CALIBRATION OF CONTINUOUS FLOW RECORDER

	Ambient Condition								
Temperature, T <sub>a</sub>		293		Kelvin	Pressure, P	1	10	014 mmHg	
			Orifice	Transfer Sta	Indard Inform	ation			
Equipment No.		Ori001		Slope, m <sub>c</sub>	2.025	33	Intercept, bc	-0.03593	
Last Calibration Date		20-Mar-1	7	( H x P <sub>a</sub> / 1013.3 x 298 / T <sub>a</sub> ) <sup>1/2</sup>					
Next Calibration Date		20-Mar-1	8			m <sub>c</sub>	x Q <sub>std</sub> + b <sub>c</sub>		
				Calibratio	n of TSP				
Calibration	on Manometer Reading Q <sub>std</sub> Continue				nuous Flow	IC			
Point	н (	H (inches of water)		(m <sup>3</sup> /	/ min.)	Re	corder, W	(W(P <sub>a</sub> /1013.3x298/T <sub>a</sub> ) <sup>1/2</sup> /35.31)	
	(up)	(down)	(difference)	X-	axis		(CFM)	Y-axis	
1	1.6	1.6	3.2	0.9	9088		28	28.2476	
2	2.5	2.5	5.0	1.1	316		36	36.3184	
3	3.9	3.9	7.8	1.4	1089		45	45.3980	
4	5.1	5.1	10.2	1.6	6086		52	52.4599	
5	6.4	6.4	12.8	1.7	7998		58	58.5130	
By Linear Regression of Y o	on X								
	Slope, m = 33.9466 Intercept, b = -2.3715							3715	
Correlation C	oefficient*	=	0.9	9998	_				
Calibration	Accepted	=	Yes	/ <del>No</del> **	_				

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

\*\* Delete as appropriate.

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

re-ass	signed from	EL452 to HVS001 with res	pect to the update in quality management system.		
Calibrated by	:	Jackey MA	Checked by	:	Pauline Wong
Date	:	17-Jan-18	Date	:	17-Jan-18



Location	:	CMA2a	Calibration Date	:	17-Jan-18
Equipment no.	:	HVS002	Calibration Due Date	:	17-Mar-18

### CALIBRATION OF CONTINUOUS FLOW RECORDER

	Ambient Condition							
Temperature, T <sub>a</sub>		293		Kelvin	Pressure, P <sub>a</sub>	3	1(	014 mmHg
			Orifice	Transfer Sta	ndard Inform	ation		
Equipment No.		Ori001		Slope, m <sub>c</sub>	2.025	33	Intercept, bc	-0.03593
Last Calibration Date		20-Mar-1	7	(H x P <sub>a</sub> / 1013.3 x 298 / T <sub>a</sub> ) <sup>1/2</sup>				
Next Calibration Date		20-Mar-1	8			m <sub>c</sub>	x Q <sub>std</sub> + b <sub>c</sub>	
				Calibration	n of TSP			
Calibration	Ma	Manometer Reading Q std Continuous Flow				inuous Flow	IC	
Point	н (	(inches of v	water)	(m <sup>3</sup> / min.)		Re	corder, W	(W(P <sub>a</sub> /1013.3x298/T <sub>a</sub> ) <sup>1/2</sup> /35.31)
	(up)	(down)	(difference)	X-a	axis		(CFM)	Y-axis
1	1.8	1.8	3.6	0.9	9628		33	33.2919
2	2.8	2.8	5.6	1.1	965		41	41.3626
3	4.1	4.1	8.2	1.4	1441		50	50.4422
4	5.4	5.4	10.8	1.6	6547		56	56.4953
5	6.6	6.6	13.2	1.8	3275		60	60.5307
By Linear Regression of Y o	on X							
	Slope, m	=	31.9	9847		tercept, b =	= 3.0	0980
Correlation C	oefficient*	=	0.9	9970	_			
Calibration	Accepted	=	Yes	/ <del>No</del> **	_			

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

\*\* Delete as appropriate.

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

re-assi	gned from	EL449 to HVS002 with resp	ect to the update in quality management system.	
Calibrated by	:	Jackey MA	Checked by	Pualine Wong
Date	:	17-Jan-18	Date :	 17-Jan-18



Location Equipment no. CMA3a HVS012

Calibration Date	:	
Calibration Due Date	:	

16-Jan-18 16-Mar-18

# CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition									
Temperature, T <sub>a</sub>		291		Kelvin Pi	essure, P <sub>a</sub>		1	015 mmHg	
	Orifice Transfer Standard Information								
Equipment No.		Ori001		Slope, m <sub>c</sub>	2.0253	33	Intercept, bc	-0.03593	
Last Calibration Date		20-Mar-1	7	(H x P <sub>a</sub> / 1013.3 x 298 / T <sub>a</sub> ) <sup>1/2</sup>					
Next Calibration Date		20-Mar-1	8			m <sub>c</sub> x	Q <sub>std</sub> + b <sub>c</sub>		
Calibration of TSP									
Calibration	Ma	nometer Re	eading	Q std Continuous Flow IC					
Point	н	inches of v	water)	(m <sup>3</sup> / min.) <b>Recorder, W</b> (W(P <sub>a</sub> /1013.3x29			(W(P <sub>a</sub> /1013.3x298/T <sub>a</sub> ) <sup>1/2</sup> /35.31)		
	(up)	(down)	(difference)	X-ax	s	((	CFM)	Y-axis	
1	1.4	1.4	2.8	0.854	15		35	35.4482	
2	2.2	2.2	4.4	1.066	57		40	40.5122	
3	3.4	3.4	6.8	1.321	8		48	48.6146	
4	4.4	4.4	8.8	1.501	2		53	53.6786	
5	5.6	5.6	11.2	1.6913 58 58.7427					
By Linear Regression of Y	′ on X								
	Slope, m	=	28.3	3766	Int	ercept, b =	= 10	.8760	

Correlation Coefficient\*

Calibration Accepted

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

=

\*\* Delete as appropriate.

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

0.9991

Yes/No\*\*

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

Calibrated by	:	Jackey MA	Checked by	 Pauline Wong
Date	:	16-Jan-18	Date	16-Jan-18



Location Equipment no. CMA4a HVS004 Calibration Date Calibration Due Date 16-Jan-18 16-Mar-18

#### CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition								
Temperature, T <sub>a</sub>	291	Kelvin	Pressure, P <sub>a</sub>	1015	mmHg			
Orifice Transfer Standard Information								
Equipment No.	Ori001	Slope, m <sub>c</sub>	2.02533	Intercept, bc	-0.03593			
Last Calibration Date	20-Mar-17	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$						
Next Calibration Date	20-Mar-18	$m_{c} \times Q_{std} + b_{c}$						

Calibration of TSP							
Calibration	Mai	nometer R	eading	Q <sub>std</sub>	Continuous Flo	w IC	
Point	Н (	inches of v	water)	(m <sup>3</sup> / min.)	Recorder, W	(W(P <sub>a</sub> /1013.3x298/T <sub>a</sub> ) <sup>1/2</sup> /35.3	
	(up)	(down)	(difference)	X-axis	(CFM)	Y-axis	
1	1.5	1.5	3.0	0.8839	24	24.3073	
2	2.4	2.4	4.8	1.1133	33	33.4225	
3	3.7	3.7	7.4	1.3781	42	42.5378	
4	4.8	4.8	9.6	1.5671	50	50.6402	
5	5.7	5.7	11.4	1.7062	55	55.7042	
inear Regression of `	Y on X						
	Slope, m	=	38.0	0715 li	ntercept, b =	-9.3021	
Correlation (	Coefficient*	=	0.9	995			
Calibratio	n Accepted	=	Yes	/ <del>No</del> **			

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

\*\* Delete as appropriate.

Remarks	
1/CIIIdIN2	-

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

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

 Calibrated by
 :
 Jackey MA
 Checked by
 :
 Pauline Wong

 :
 16-Jan-18
 Date
 :
 16-Jan-18

Date



Location Equipment no. CMA5b HVS010

Calibration Date	
Calibration Due Date	

16-Jan-18 16-Mar-18

#### CALIBRATION OF CONTINUOUS FLOW RECORDER

				Ambient C						
Temperature, T <sub>a</sub>	291 Kelvin <b>Pressure, P</b> a 1015 mml						)15 mmHg			
Orifice Transfer Standard Information										
Equipment No.		Ori001		Slope, m <sub>c</sub>	2.0253		Intercept, bc	-0.03593		
Last Calibration Date		20-Mar-1	7		( H	x P <sub>a</sub> / 1	013.3 x 298 / T	a) <sup>1/2</sup>		
Next Calibration Date		20-Mar-1	8		=	m <sub>c</sub>	$x Q_{std} + b_{c}$			
	Calibration of TSP									
Calibration	Ма	nometer R	eading	Q	std	Cont	inuous Flow	IC		
Point	н	H (inches of water)			min.)	Re	ecorder, W	(W(P <sub>a</sub> /1013.3x298/T <sub>a</sub> ) <sup>1/2</sup> /35.31)		
	(up)	(down)	(difference)	X-a	ixis		(CFM)	Y-axis		
1	1.4	1.4	2.8	0.8	545		40	40.5122		
2	2.1	2.1	4.2	1.0	426		46	46.5890		
3	3.1	3.1	6.2	1.2	629		53	53.6786		
4	3.9	3.9	7.8	1.4	144		58	58.7427		
5	4.7	4.7	9.4	1.5	509		63	63.8067		
By Linear Regression of Y o	n X									
	Slope, m	=	33.2	2153	Inte	ercept, b	= 11.9	9753		
Correlation Coefficient* = 0.9			997							
Calibration Accepted = Yes.			/ <del>No</del> **							

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

\*\* Delete as appropriate.

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

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

Calibrated by Date Jackey MA 16-Jan-18 Checked by Date Pauline Wong 16-Jan-18



Location Equipment no. MA1e HVS007 Calibration Date Calibration Due Date

16-Jan-18 16-Mar-18

# CALIBRATION OF CONTINUOUS FLOW RECORDER

				Ambient Condi			
Femperature, T <sub>a</sub>		291		Kelvin <b>Pre</b>	1015 mmHg		
			Orifice Tra	ansfer Standar	d Information		
Equipment No.		Ori001		Slope, m <sub>c</sub>	2.02533	Intercept, bc	-0.03593
Last Calibration Date		20-Mar-1	7		(HxP <sub>a</sub> /1	013.3 x 298 /	$T_{a}$ ) <sup>1/2</sup>
Next Calibration Date		20-Mar-1	8		m	x Q <sub>std</sub> + b <sub>c</sub>	
				Calibration of <sup>-</sup>	TSP		
Calibration	Ма	nometer R	eading	Q <sub>std</sub>	Con	tinuous Flow	IC
Point	H (inches of water)			(m <sup>3</sup> / min	.) R	ecorder, W	(W(P <sub>a</sub> /1013.3x298/T <sub>a</sub> ) <sup>1/2</sup> /35.31
	(up)	(down)	(difference)	X-axis		(CFM)	Y-axis
1	1.6	1.6	3.2	0.9123		30	30.3841
2	2.6	2.6	5.2	1.1581		38	38.4866
3	4.2	4.2	8.4	1.4671		48	48.6146
4	5.4	5.4	10.8	1.6611		54	54.6914
5	6.7	6.7	13.4	1.8483		59	59.7555
By Linear Regression of Y	on X						
	Slope, m	=	31.6	483	Intercept, b	= 1	.7822
Correlation Co	pefficient*	=	0.99	95			
Calibration	Accepted	=	Yes/	<del>\o</del> **			

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

 
 Remarks :
 As per client's provided information, the equipment reference no. of the calibrated High Volume Sampler has been re-assigned from EL455 to HVS007 with respect to the update in quality management system.

Calibrated by Date Jackey MA 16-Jan-18 Checked by Date Pauline Wong 16-Jan-18



1

2

3

4

5

By Linear Regression of Y on X

# Calibration Data for High Volume Sampler (TSP Sampler)

Location Equipment no.

MA1w HVS008 **Calibration Date** Calibration Due Date

20

30

39

45

52

16-Jan-18 16-Mar-18

### CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition								
Temperature, T <sub>a</sub>		291		Kelvin	Pressure, P <sub>a</sub>		1(	015 mmHg
Orifice Transfer Standard Information								
Equipment No.		Ori001		Slope, m <sub>c</sub>	2.025	33	Intercept, bc	-0.03593
Last Calibration Date		20-Mar-1	7	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$				
Next Calibration Date		20-Mar-1	8	$= m_c x Q_{std} + b_c$				
			(	Calibration	of TSP			
Calibration	Ма	nometer Re	eading	C	Q <sub>std</sub>	Continu	ous Flow	IC
Point	н	(inches of v	water)	(m <sup>3</sup>	/ min.)	Recor	der, W	W(P <sub>a</sub> /1013.3x298/T <sub>a</sub> ) <sup>1/2</sup> /35.31)
	(up)	(down)	(difference)	X	-axis	(C	FM)	Y-axis

0.8839

1.1359

1.4144

1.6148

1.7928

Slope, m	=	34.8424	Intercept, b =
Correlation Coefficient*	=	0.9988	
Calibration Accepted	=	Yes/ <del>No</del> **	-

1.5

2.5

3.9

5.1

6.3

3.0

5.0

7.8

10.2

12.6

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

1.5

2.5

3.9

5.1

6.3

As per client's provided information, the equipment reference no. of the calibrated High Volume Sampler has been re-assigned from EL080 to HVS008 with respect to the update in quality management system. Remarks :

Calibrated by Date

Jackey MA 16-Jan-18

Checked by Date

Pauline Wong 16-Jan-18

20.2561

30.3841

39.4994

45.5762

52.6658

-10.0007



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# CERTIFICATE OF CALIBRATION

Certificate No.:	17CA0221 02		Page	1 of 2
Item tested				
Description:	Sound Level Mete	er (Type 1)	Microphone	Dreamin
Manufacturer:	B&K		B & K	Preamp B & K
Type/Model No.:	2250-L		4950	ZC0032
Serial/Equipment No.:	2701778		2755097	19223
Adaptors used:	-		-	19223
Item submitted by				
Customer Name:	Lam Geotechnics	Limited		
Address of Customer:	-	Funda		
Request No.:	20			
Date of receipt:	22-Feb-2017			
Date of test:	02-Mar-2017			
Reference equipment	used in the calib	ration		
Description:	Model:	Serial No.	Expiry Date:	Traceable to:
Multi function sound calibrator	B&K 4226	2288444	18-Jun-2017	CIGISMEC
Signal generator	DS 360	33873	18-Apr-2017	CEPREI
Signal generator	DS 360	61227	18-Apr-2017	CEPREI
Ambient conditions			1990 No. 1997 No. 19	(a.e., 100)
Temperature:	20 ± 1 °C			
Relative humidity:	60 ± 10 %			
Air pressure:	1010 ± 5 hPa			

### **Test specifications**

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

### Test results

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

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

Actual Measurement data are documented on worksheets.

Approved Signatory: Huang Lia

Min/Feng Jun Qi

06-Mar-2017 Company Chop:



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

Date:

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



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# CERTIFICATE OF CALIBRATION

(Continuation Page)

Certificate No.:

17CA0221 02

Page

2 of 2

#### 1, Electrical Tests

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

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

#### 2, Acoustic tests

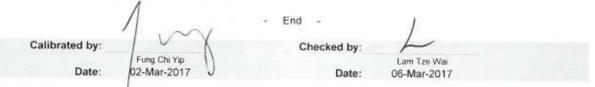
The complete sound level meter was calibrated on the reference range using a B&K 4226 acoustic calibrator with 1000Hz and SPL 94 dB. The sensitivity of the sound level meter was adjusted. The test result at 125 Hz and 8000 Hz are given in below with test status and the estimated uncertainties.

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

#### Response to associated sound calibrator

#### N/A

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



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

C Soils & Materials Engineering Co. Ltd.

Form No CARP152-2/Issue 1/Rev.C/D1/02/2007



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12/F., Leader Centre, 37 Wong Chuk Hang Road, Aberdeen, Hong Kong. E-mail: smec@cigismec.com Website: www.cigismec.com

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



# CERTIFICATE OF CALIBRATION

Certificate No.:	18CA0213 02		Page	1 of	2
Item tested					
Description: Manufacturer: Type/Model No.: Serial/Equipment No.: Adaptors used:	Sound Level Me B & K 2250 2701778 -	ter (Type 1)	Microphone B & K 4950 2755097	Preamp B & K ZC0032 19223 -	
Item submitted by					
Customer Name: Address of Customer: Request No.: Date of receipt:	Lam Geotechnic - - 13-Feb-2018	s Limited.			
Date of test:	21-Feb-2018				
Reference equipment	used in the cal	bration			
Description: Multi function sound calibrator	Model: B&K 4225	Serial No. 2288444	Expiry Date: 08-Sep-2018	Traceab CIGISME	10000

Multi function sound calibrator	B&K 4226	2288444	08-Sep-2018	CIGISME
Signal generator	DS 360	33873	25-Apr-2018	CEPREI
Signal generator	DS 360	61227	01-Apr-2018	CEPREI
Ambient conditions				

Temperature:	20 ± 1 °C
Relative humidity:	50 ± 10 %
Air pressure:	1000 ± 5 hPa

#### Test specifications

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

### Test results

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

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

Actual Measurement data are documented on worksheets

Approved Signatory: Fen Jun 0

21-Feb-2018 Company Chop:



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

Date:

C Soils & Materials Engineering Co. Ltd

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

Hong Kong Accreditation Service (HKAS) has accredited this laboratory (Reg. No. HOKLAS 028) under the Hong Kong Laboratory Accreditation Scheme (HOKLAS) for specific calibration activities as listed in the HOKLAS directory of accredited laboratories. The results shown in this certificate are traceable to the International System of Units (SI) or recognised measurement standards. This certificate shall not be reproduced except in full.



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# CERTIFICATE OF CALIBRATION

(Continuation Page)

Certificate No.:

18CA0213 02

Page

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#### 1, Electrical Tests

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

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

#### 2, Acoustic tests

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

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

#### 3, Response to associated sound calibrator

#### N/A

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



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

C Soils & Material's Engineering Co. Ltd

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

Hong Kong Accreditation Service (HKAS) has accredited this laboratory (Reg. No. HOKLAS 028) under the Hong Kong Laboratory Accreditation Scheme (HOKLAS) for specific calibration activities as listed in the HOKLAS directory of accredited laboratories. The results shown in this certificate are traceable to the International System of Units (SI) or recognised measurement standards. This certificate shall not be reproduced except in full.



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# CERTIFICATE OF CALIBRATION

Certificate No.:	17CA0320 02		Page	1 of	2
Item tested					
Description:	Sound Level Mete	r (Type 1)	Microphone	Pream	0
Manufacturer:	B & K	• . • • • • . · . · • . •	B&K	B & K	200
Type/Model No.:	2250-L		4950	ZC003	2
Serial/Equipment No.:	2722310		2698702	13318	
Adaptors used:			-		
Item submitted by					
Customer Name:	Lam Geotechnics	Ltd.			
Address of Customer:	((*))				
Request No.:	+				
Date of receipt:	20-Mar-2017				
Date of test:	23-Mar-2017				
Reference equipment	used in the calib	ration			
Description:	Model:	Serial No.	Expiry Date:	Tracea	ble to:
Multi function sound calibrator	B&K 4226	2288444	18-Jun-2017	CIGISMI	
Signal generator	DS 360	33873	18-Apr-2017	CEPREI	
Signal generator	DS 360	61227	18-Apr-2017	CEPREI	
Ambient conditions					
Temperature:	21 ± 1 °C				
Temperature: Relative humidity:	21 ± 1 °C 60 ± 10 %				

#### Test specifications

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

### Test results

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

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

Actual Measurement data are documented on worksheets.

Approved Signatory: in/Feng Jun Qi Huang Jier

24-Mar-2017 Company Chop:



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

Date:

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



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Page



2

# CERTIFICATE OF CALIBRATION

(Continuation Page)

Certificate No.:

17CA0320 02

02

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#### 1, Electrical Tests

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

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

#### 2, Acoustic tests

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

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

#### 3, Response to associated sound calibrator

N/A

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

	-1	- End -	1 ~
Calibrated by:	3	Checked by:	1~-1
	Lai Sheng Jie		Rung Chi Yip
Date:	23-Mar-2017	Date:	24-Mar-2017

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

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



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# CERTIFICATE OF CALIBRATION

Certificate No.:	17CA0505 01		Page	1 of 2
Item tested				
Description:	Sound Level Mete	r (Type 1)	Microphone	Preamp
Manufacturer:	B&K		B&K	B&K
Type/Model No.:	2250-L		4950	ZC0032
Serial/Equipment No.:	2722311		2698703	13321
Adaptors used:	(1997) (1997)		-	-
Item submitted by				
Customer Name:	Lam Geotechnics	Ltd.		
Address of Customer:	-			
Request No.:				
Date of receipt:	05-May-2017			
Date of test:	06-May-2017			
Reference equipment	used in the calib	ration		
Description:	Model:	Serial No.	Expiry Date:	Traceable to:
Multi function sound calibrator	B&K 4226	2288444	18-Jun-2017	CIGISMEC
Signal generator	DS 360	61227	01-Apr-2018	CEPREI
Ambient conditions				
Temperature:	22 ± 1 °C			
Relative humidity:	50 ± 10 %			
Air pressure:	1010 ± 5 hPa			
Test specifications				

 The Sound Level Meter has been calibrated in accordance with the requirements as specified in BS 7580: Part 1: 1997 and the lab calibration procedure SMTP004-CA-152.

- The electrical tests were performed using an electrical signal substituted for the microphone which was removed and replaced by an equivalent capacitance within a tolerance of ±20%.
- The acoustic calibration was performed using an B&K 4226 sound calibrator and corrections was applied for the difference between the free-field and pressure responsess of the Sound Level Meter.

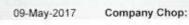
### **Test results**

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

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

Actual Measurement data are documented on worksheets.

Approved Signatory: Feng Jungi





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

Date:

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Page



# CERTIFICATE OF CALIBRATION

(Continuation Page)

Certificate No.:

17CA0505 01

2 of 2

#### 1, Electrical Tests

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

Test:	Subtest:	Status:	Expanded Uncertanity (dB)	Coverage Factor
Self-generated noise	A	Pass	0.3	
	С	Pass	0.8	
	Lin	Pass	1.6	
Linearity range for Leq	At reference range, Step 5 dB at 4 kHz	Pass	0.3	
	Reference SPL on all other ranges	Pass	0.3	
	2 dB below upper limit of each range	Pass	0.3	
	2 dB above lower limit of each range	Pass	0.3	
Linearity range for SPL	At reference range . Step 5 dB at 4 kHz	Pass	0.3	
Frequency weightings	A	Pass	0.3	
	с	Pass	0.3	
	Lin	Pass	0.3	
Time weightings	Single Burst Fast	Pass	0.3	
	Single Burst Slow	Pass	0.3	
Peak response	Single 100µs rectangular pulse	Pass	0.3	
R.M.S. accuracy	Crest factor of 3	Pass	0.3	
Time weighting I	Single burst 5 ms at 2000 Hz	Pass	0.3	
	Repeated at frequency of 100 Hz	Pass	0.3	
Time averaging	1 ms burst duty factor 1/10 <sup>3</sup> at 4kHz	Pass	0.3	
	1 ms burst duty factor 1/104 at 4kHz	Pass	0.3	
Pulse range	Single burst 10 ms at 4 kHz	Pass	0.4	
Sound exposure level	Single burst 10 ms at 4 kHz	Pass	0.4	
Overload indication	SPL	Pass	0.3	
2012 Contract Contra	Leg	Pass	0.4	

### 2, Acoustic tests

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

test	Status	Uncertanity (dB)	Factor
ghting A at 125 Hz	Pass	0.3	
ghting A at 8000 Hz	Pass	0.5	
	ghting A at 125 Hz ghting A at 8000 Hz	ghting A at 125 Hz Pass	ghting A at 125 Hz Pass 0.3

### 3, Response to associated sound calibrator

#### N/A

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

	-7	- End -
Calibrated by:	4	Checked by:
	Lai Shèng Jie	Fung Chi Yip U
Date:	06-May-2017	Date: 09-May-2017

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

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





# CERTIFICATE OF CALIBRATION

Certificate No.:	18CA0116 01		Page	1	of	2
Item tested						
Description: Manufacturer: Type/Model No.: Serial/Equipment No.: Adaptors used:	Sound Level Mete B & K 22501. 3002695	er (Type 1)	Microphone B & K 4950 2940839		Preamp B & K ZC0032 18582	
Item submitted by						
Customer Name: Address of Customer: Request No.: Date of receipt:	Lam Geotechnics - - 16-Jan-2018	Ltd.				
Date of test:	18-Jan-2018					
Reference equipment	used in the calib	ration				
Description: Multi function sound calibrator Signal generator Signal generator	Model: B&K 4226 DS 360 DS 360	Serial No. 2268444 33873 61227	Expiry Date: 08-Sep-2018 25-Apr-2018 01-Apr-2018		Traceabl CIGISMEC CEPREI CEPREI	
Ambient conditions						
Temperature: Relative humidity:	21 ± 1 °C 50 ± 10 %					

#### Test specifications

Air pressure:

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

### Test results

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

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

Feng Jun Qi

1005 ± 5 hPa

Actual Measurement data are documented on worksheets.

Approved Signatory:

18-Jan-2018 Company Chop:



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

Date:

O Solis & Materials Engineering Co., Ltd

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2

# CERTIFICATE OF CALIBRATION

(Continuation Page)

Certificate No.:

18CA0116 01

Page of

1, **Electrical Tests** 

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

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

#### 2, Acoustic tests

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

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

3, Response to associated sound calibrator

#### N/A

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

	4	- End -	1	
Calibrated by:	11	Checked by:	K	
Date:	Fung Chi Yip ] 18-Jan-2018	Date:	Lam Tze War 18-Jan-2018	

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

#### C Soils & Materials Engineering Co.: Ltd.

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



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# CERTIFICATE OF CALIBRATION

Certificate No.:	17CA0904 02		Page	1	of	2
Item tested						
Description: Manufacturer: Type/Model No.: Serial/Equipment No.: Adaptors used:	Sound Level Mete B & K 2250-L 3006790 -	r (Type 1)	Microphone B & K 4950 2827240		Preamp B & K ZC0032 21213	
Item submitted by						
Customer Name: Address of Customer: Request No.: Date of receipt:	Lam Geotechnics - - 04-Sep-2017	Limited				
Date of test:	09-Sep-2017					
Reference equipment	used in the calib	ration				
Description: Multi function sound calibrator Signal generator Signal generator	Model: B&K 4226 DS 360 DS 360	Serial No. 2288444 33873 81227	Expiry Date: 08-Sep-2018 25-Apr-2018 01-Apr-2018		Traceab CIGISME CEPREI CEPREI	ST 575.5
Ambient conditions						
Temperature: Relative humidity: Air pressure:	21 ± 1 °C 50 ± 10 % 1015 ± 5 hPa					
Test specifications						

#### Test specifications

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

#### Test results

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

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

Actual Measurement data are documented on worksheets.

Approved Signatory: Huang Jim Win/Feng Jun Or

09-Sep-2017 Company Chop:



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

Date:

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17CA0904 02

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



2

# CERTIFICATE OF CALIBRATION

(Continuation Page)

Page of

#### **Electrical Tests** 1.

Certificate No.:

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

Test:	Subtest:	Status:	Expanded Uncertanity (dB)	Coverage Factor
Test.	Sublest.	Status.	oncertainty (do)	1 00001
Self-generated noise	A	Pass	0.3	
	C	Pass	0.8	
	Lin	Pass	1.6	
Linearity range for Leg	At reference range , Step 5 dB at 4 kHz	Pass	0.3	
	Reference SPL on all other ranges	Pass	0.3	
	2 dB below upper limit of each range	Pass	0.3	
	2 dB above lower limit of each range	Pass	0.3	
Linearity range for SPL	At reference range , Step 5 dB at 4 kHz	Pass	0.3	
Frequency weightings		Pass	0.3	
	A C	Pass	0.3	
	Lin	Pass	0.3	
Time weightings	Single Burst Fast	Pass	0.3	
	Single Burst Slow	Pass	0.3	
Peak response	Single 100µs rectangular pulse	Pass	0.3	
R.M.S. accuracy	Crest factor of 3	Pass	0.3	
Time weighting I	Single burst 5 ms at 2000 Hz	Pass	0.3	
1.00000.0000000000000000000000000000000	Repeated at frequency of 100 Hz	Pass	0.3	
Time averaging	1 ms burst duty factor 1/10 <sup>3</sup> at 4kHz	Pass	0.3	
	1 ms burst duty factor 1/10 <sup>4</sup> at 4kHz	Pass	0.3	
Pulse range	Single burst 10 ms at 4 kHz	Pass	0.4	
Sound exposure level	Single burst 10 ms at 4 kHz	Pass	0.4	
Overload indication	SPL	Pass	0.3	
	Leg	Pass	0.4	

#### 2. Acoustic tests

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

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

#### Response to associated sound calibrator 3,

### N/A

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



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

#### D Soils & Materials Engineering Co., Ltd.

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



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# CERTIFICATE OF CALIBRATION

Certificate No.:	17CA0426 01-02			Page	1	of	2
Item tested							
Description: Manufacturer; Type/Model No.: Serial/Equipment No.: Adaptors used:	Sound Level Mete Larson Davis LxT1 0003737 -	r (Type 1)		Microphone PCB 377B02 171529			
Item submitted by			100				
Customer Name: Address of Customer: Request No.: Date of receipt:	Lam Environment - - 26-Apr-2017	al Service Ltd.					
Date of test:	28-Apr-2017						
Reference equipment	used in the calib	ration					
Description: Multi function sound calibrator Signal generator	Model: B&K 4226 DS 360	Serial No. 2288444 61227		Expiry Date: 18-Jun-2017 01-Apr-2018		Traceat CIGISME CEPREI	
Ambient conditions							
Temperature: Relative humidity: Air pressure:	21 ± 1 °C 50 ± 10 % 1010 ± 5 hPa						
Test specifications					04		

#### Test specifications

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

#### Test results

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

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

Actual Measurement data are documented on worksheets.

Approved Signatory:

Huang dia Min/Feng Jun Qi

04-May-2017 Company Chop:



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

Date:

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



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Page



2

# CERTIFICATE OF CALIBRATION

(Continuation Page)

Certificate No.:

17CA0426 01-02

Website: www.cigismec.com

2 of

#### 1, Electrical Tests

E-mail: smec@cigismec.com

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

Test:	Subtest:	Status:	Expanded Uncertanity (dB)	Coverage Factor
Self-generated noise	A	Pass	0.3	
	с	Pass	0.8	2.1
	Lin	Pass	1.6	2.2
Linearity range for Leq	At reference range , Step 5 dB at 4 kHz	Pass	0.3	
	Reference SPL on all other ranges	Pass	0.3	
	2 dB below upper limit of each range	Pass	0.3	
	2 dB above lower limit of each range	Pass	0.3	
Linearity range for SPL	At reference range , Step 5 dB at 4 kHz	Pass	0.3	
Frequency weightings	A	Pass	0.3	
	A C	Pass	0.3	
	Lin	Pass	0.3	
Time weightings	Single Burst Fast	Pass	0.3	
	Single Burst Slow	Pass	0.3	
Peak response	Single 100µs rectangular pulse	N/A	N/A	
R.M.S. accuracy	Crest factor of 3	Pass	0.3	
Time weighting I	Single burst 5 ms at 2000 Hz	Pass	0.3	
	Repeated at frequency of 100 Hz	Pass	0.3	
Time averaging	1 ms burst duty factor 1/10 <sup>3</sup> at 4kHz	Pass	0.3	
	1 ms burst duty factor 1/104 at 4kHz	Pass	0.3	
Pulse range	Single burst 10 ms at 4 kHz	Pass	0.4	
Sound exposure level	Single burst 10 ms at 4 kHz	Pass	0.4	
Overload indication	SPL	Pass	0.3	
	Leq	Pass	0.4	

#### 2, Acoustic tests

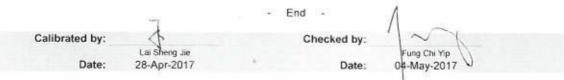
The complete sound level meter was calibrated on the reference range using a B&K 4226 acoustic calibrator with 1000Hz and SPL 94 dB. The sensitivity of the sound level meter was adjusted. The test result at 125 Hz and 8000 Hz are given in below with test status and the estimated uncertainties.

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

#### 3, Response to associated sound calibrator

#### N/A

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



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

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2

# CERTIFICATE OF CALIBRATION

Certificate No.:	17CA1124 02	Page:	1	of	
Item tested					
Description:	Acoustical Calibrator (Class 1)				

Description: Acoustical Calibrator (Class 1 Manufacturer: Larson Davis Type/Model No.: CAL200 Serial/Equipment No.: 13128 Adaptors used: -

#### Item submitted by

Curstomer:	Lam Environmental Service Ltd.
Address of Customer:	
Request No.:	2
Date of receipt:	24-Nov-2017

#### Date of test: 30-Nov-2017

#### Reference equipment used in the calibration

Description:	Model:	Serial No.	Expiry Date:	Traceable to:
Lab standard microphone	B&K 4180	2341427	11-Apr-2018	SCL
Preamplifier	B&K 2673	2239857	05-May-2018	CEPREI
Measuring amplifier	B&K 2610	2346941	03-May-2018	CEPREI
Signal generator	DS 360	61227	01-Apr-2018	CEPREI
Digital multi-meter	34401A	US36087050	25-Apr-2018	CEPREI
Audio analyzer	8903B	GB41300350	21-Apr-2018	CEPREI
Universal counter	53132A	MY40003662	22-Apr-2018	CEPREI

#### Ambient conditions

Temperature:	22 ± 1 °C
Relative humidity:	50 ± 10 %
Air pressure:	1005 ± 5 hPa

#### **Test specifications**

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

#### **Test results**

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



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

C Soils & Materials Engineering Co., Ltd.

Form No CARP156-1/Issue 1 Rev D 01/03/2007



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# CERTIFICATE OF CALIBRATION

(Continuation Page)

Certificate No.:

17CA1124 02

24 02

Page: 2 of 2

2 01

#### 1, Measured Sound Pressure Level

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

			(Output level in dB re 20 µPa)
Frequency Shown	Output Sound Pressure Level Setting	Measured Output Sound Pressure Level	Estimated Expanded Uncertainty
Hz	dB	dB	dB
1000	94.0	94.01	0.10

#### 2, Sound Pressure Level Stability - Short Term Fluctuations

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

At 1000 Hz	STF = 0.010 dB
Estimated expanded uncertainty	0.005 dB

#### 3, Actual Output Frequency

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

At 1000 Hz	Actual Frequency = 999.5 Hz	
Estimated expanded uncertainty	0.1 Hz	Coverage factor k = 2.2

#### 4, Total Noise and Distortion

als Engineering Co. 1 M

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

At 1000 Hz	TND = 0.5 %
Estimated expanded uncertainty	0.7 %

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

	1 /	- End -	1
Calibrated by:	$ \sim 1$	Checked by:	A
Date:	Fung Chi Yip 30-Nov-2017	Date:	Lam Tze Wai 30-Nov-2017

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



#### 綜合試驗有限公司 SOILS & MATERIALS ENGINEERING CO., LTD. 香港黄竹坑道37號利達中心12樓 12/F., Leader Centre, 37 Wong Chuk Hang Road, Aberdeen, Hong Kong.

E-mail: smec@cigismec.com Website: www.cigismec.com

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



# CERTIFICATE OF CALIBRATION

Certificate No.:	17CA1110 02	Page:	1	of	2
Item tested					
Description:	Acoustical Calibrator (Class 1)				
Manufacturer:	Rion Co., Ltd.				
Type/Model No	NC-73				
Serial/Equipment No.:	10707358				
Adaptors used:					
Item submitted by					
Curstomer:	Lam Geotechnics Ltd.				
Address of Customer:	-				
Request No.:	-				
Date of receipt:	10-Nov-2017				

#### Date of test:

.....

14-Nov-2017

#### Reference equipment used in the calibration

Description:	Model:	Serial No.	Expiry Date:	Traceable to:
Lab standard microphone	B&K 4180	2341427	11-Apr-2018	SCL
Preamplifier	B&K 2673	2239857	05-May-2018	
Measuring amplifier	B&K 2610	2346941		CEPREI
Signal generator	DS 360	61227	03-May-2018	CEPREI
Digital multi-meter	34401A		01-Apr-2018	CEPREI
Audio analyzer		US36087050	25-Apr-2018	CEPREI
	8903B	GB41300350	21-Apr-2018	CEPREI
Universal counter	53132A	MY40003662	22-Apr-2018	CEPREI

#### Ambient conditions

Temperature:	21 ± 1 °C
Relative humidity:	50 ± 10 %
Air pressure:	1010 ± 5 hPa

#### **Test specifications**

The Sound Calibrator has been calibrated in accordance with the requirements as specified in IEC 60942 1997 Annex B 1. and the lab calibration procedure SMTP004-CA-156.

The calibrator was tested with its axis vertical facing downwards at the specific frequency using insert voltage technique. 2.

The results are rounded to the nearest 0.01 dB and 0.1 Hz and have not been corrected for variations from a reference 3. pressure of 1013.25 hectoPascals as the maker's information indicates that the instrument is insensitive to pressure changes.

#### **Test results**

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

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

Huang Jia Min/Feng Jun Qi

15-Nov-2017 Company Chop:



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

Date:

@ Soils & Materials Engineering Co . Ltd

Approved Signatory:

Form No CARP156-1/Issue 1/Rev D/01/03/2007



#### 综合試驗有限公司 SOILS & MATERIALS ENGINEERING CO., LTD. 香港黄竹坑遠37號利達中心12樓

12/F., Leader Centre, 37 Wong Chuk Hang Road, Aberdeen, Hong Kong. E-mail: smec@clgismec.com Website: www.cigismec.com Tel: (852) 2873 6860 Fax: (852) 2555 7533



# CERTIFICATE OF CALIBRATION

(Continuation Page)

Certificate No .:

17CA1110 02

Page: 2 of 2

#### 1, Measured Sound Pressure Level

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

Frequency Shown	Output Sound Pressure Level Setting	Measured Output Sound Pressure Level	Estimated Expanded Uncertainty
Hz	dB	dB	dB
1000	94.00	93.93	0.10

#### 2, Sound Pressure Level Stability - Short Term Fluctuations

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

At 1000 Hz	STF = 0.008 dB
Estimated expanded uncertainty	0.005 dB

#### 3, Actual Output Frequency

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

At 1000 Hz	Actual Frequency = 991.5 Hz	
Estimated expanded uncertainty	0.1 Hz	Coverage factor k = 2.2

#### 4, Total Noise and Distortion

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

At 1000 Hz	TND = 0.3 %
Estimated expanded uncertainty	0.7 %

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

1/Rev C/01/05/2005

	7	- End -	$\Lambda \uparrow$
Calibrated by:	St.	Checked by:	1~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Date:	La Steng Jie 14-Nov-2017	Date:	Fung Chi Yip 15-Nov-2017

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

Co. Ltd.	Form No CARP156-2/Issue



Appendix 5.1

Monitoring Schedules for Reporting Month and Coming Reporting Month

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

Environmental Monitoring Schedule February 2018											
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday					
						27-Ja					
28-Jan	29-Jan	30-Jan	31-Jan	1-Feb	2-Feb	3-Fe					
	24hr TSP Noise (daytime) (M7e, M7w, M2b)	1hr TSP	Noise (daytime) (M3a, M4b, M5b, M8)	Noise (daytime) (M6)	24hr TSP Noise (daytime) (M1a)						
4-Feb	5-Feb	6-Feb	7-Feb	8-Feb	9-Feb	10-Fe					
	1hr TSP	Noise (daytime) (M3a, M4b, M5b, M6, M7e, M7w, M8)	Noise (daytime) (M1a, M2b)		24hr TSP 1hr TSP						
11-Feb	12-Feb	13-Feb	14-Feb	15-Feb	16-Feb	17-Fe					
	Noise (daytime) (M1a, M2b, M7e, M7w, M8)	Noise (daytime) (M3a, M4b, M5b, M6)	24hr TSP	1hr TSP							
18-Feb	19-Feb	20-Feb	21-Feb	22-Feb	23-Feb	24-Fe					
		24hr TSP (CMA1b, CMA2a, CMA3a, CMA5b, CMA6a, MA1e, MA1w) Noise (daytime) (M7e, M7w, M8)	24hr TSP (CMA4a) 1hr TSP	Noise (daytime) (M1a, M2b, M4b)	Noise (daytime) (M3a, M5b, M6)						
25-Feb	26-Feb	27-Feb									
	24hr TSP	1hr TSP									

Remarks: Due to interruption of electricity, the 24hr TSP at CMA4a was rescheduled from 20 February 2018 to 21 February 2018.

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

Tentative Environmental Monitoring Schedule

	March 2018										
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday					
		27-Feb	28-Feb	- Mar	2-Mar	3-Mar					
		Noise (daytime)			24hr TSP	thr TSP					
4-Mar	5-Mar	6-Mar	7-Mar	8-Mar	9-Mar	10-Mar					
	Noise (daytime)	Naise (daytime)	24hr TSP	1hr TSP							
11-Mar	12-Mar		14-Mar	15-Mar	16-Mar	17-Mar					
i ⊢ivat	12-1948	i srivar	14-142	19-mai	to-iwai	i / -ivea					
	Noise (daytime)	Noise (daylime)	thr TSP								
18-Mar	19-Mar	20-Mar	21-Mar	22-Mar	23-Mar	24-Mar					
		1hr TSP Noise (daylime)			24hr TSP	1hr TSP					
25-Mar	28-Mar										
	Noise (daytime)										



Appendix 5.2

Noise Monitoring Results and Graphical Presentations



#### Noise Monitoring Result

#### Day Time (0700 - 1900hrs on normal weekdays)

Location: M1a - Footbridge at EX-Wanchai Harbour Road Sports Centre

			Measur	ement Noi	se Level	Baseline Level	Construction Noise Level	Limit Level
Date	Time	Weather	Leq	L10	L90	Leq	Leq	Leq
			Unit: dB(A), (30-min)					
2/2/18	10:00	Fine	81.7	84.5	73.6	72	81	75
7/2/18	10:20	Fine	77.0	79.0	73.3	72	75	75
12/2/18	9:55	Fine	76.5	78.9	72.8	72	74	75
22/2/18	11:00	Cloudy	77.1	79.3	72.6	72	75	75

Location: M2b - Noon-day gun area

			Measure	ement Noi	se Level	Baseline Level	Construction Noise Level	Limit Level
Date	Time	Weather	Leq	L10	L90	Leq	Leq	Leq
			Unit: dB(A), (30-min)					
29/1/18	15:15	Fine	67.8	69.3	65.4	68	54	75
7/2/18	11:15	Fine	66.8	68.2	64.7	68	67	75
12/2/18	10:45	Fine	66.2	67.7	64.0	68	66	75
22/2/18	13:00	Cloudy	68.7	70.9	65.6	68	62	75

Location: M3a - Tung Lo Wan Fire Station

			Measure	ement Noi	se Level	Baseline Level	Construction Noise Level	Limit Level
Date	Time	Weather	Leq	L10	L90	Leq	Leq	Leq
						Unit: dB(	(A), (30-min)	
31/1/18	15:50	Cloudy	64.8	66.6	62.0	69	65	75
6/2/18	15:30	Fine			62.1	69	64	75
13/2/18	9:00	Fine	64.4 65.9 62.2		62.2	69	64	75
23/2/18	8:20	Cloudy	65.6 67.0 62.9		62.9	69	66	75

Location: M4b - Victoria Centre

			Measur	ement Noi	se Level	Baseline Noise Level	Construction Noise Level	Limit Level
Date	Time	Weather	Leq L10 L90		Leq	Leq	Leq	
					Unit: dB(	(A), (30min)		
31/1/18	08:15	Cloudy	64.8 66.8 62.2		67	65	75	
6/2/18	09:30	Fine	66.4 68.1 63.9		63.9	67	66	75
13/2/18	09:35	Fine	66.0 67.6 63.9		63.9	67	66	75
22/2/18	14:20	Cloudy	65.7 67.7 62.9		67	66	75	

Location: M5b - City Garden

			Measure	ement Noi	se Level	Baseline Level	Construction Noise Level	Limit Level
Date	Time	Weather	Leq L10 L		L90	Leq	Leq	Leq
						Unit: dB	(A), (30min)	
31/1/18	10:00	Cloudy	69.5 70.5 67.1		67.1	68	64	75
6/2/18	10:15	Fine	69.5 70.2 66.7		66.7	68	64	75
13/2/18	10:20	Fine	67.0 68.4 64.9		64.9	68	67	75
23/2/18	9:45	Cloudy	68.9 70.2 66.5		66.5	68	62	75

Location: M6 - HK Baptist Church Henrietta Secondary School

			Measure	ement Noi	se Level	Baseline Level	Construction Noise Level	Limit Level
Date	Time	Weather	Leq	L10	L90	Leq	Leq	Leq
						Unit: dB(	A), (30-min)	
1/2/18	10:00	Fine	65.4	67.7	62.8	71	65	65
6/2/18	10:55	Fine	64.5 67.1 63.7		71	65	65	
13/2/18	10:55	Fine	66.2	66.2 67.4 63.7		71	66	70
23/2/18	10:22	Cloudy	70.3 72.4 69			71	70	70



Noise Monitoring Result

#### Day Time (0700 - 1900hrs on normal weekdays)

Location: M7e - International Finance Centre (Eastern End of Podium) (Reference Station)

				Measure	ement Noi	se Level	Baseline Level	Construction Noise Level	Limit Level
	Date	Time	Weather	Leq	Leq L10		Leq	Leq	Leq
							Unit: dB(	(A), (30-min)	
ľ	29/1/18	10:45	Fine	68.0 69.3 62.8		62.8	67	62	N/A
	6/2/18	14:35	Fine	67.4 69.3 63.8		63.8	67	59	N/A
	12/2/18	14:05	Fine	67.1 68.8 63.5		63.5	67	55	N/A
- 1	20/2/18	14.00	Fine	64.4 65.7 61.8		61.8	67	64	N/A

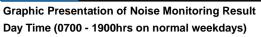
Location: M7w - International Finance Centre (Western End of Podium)

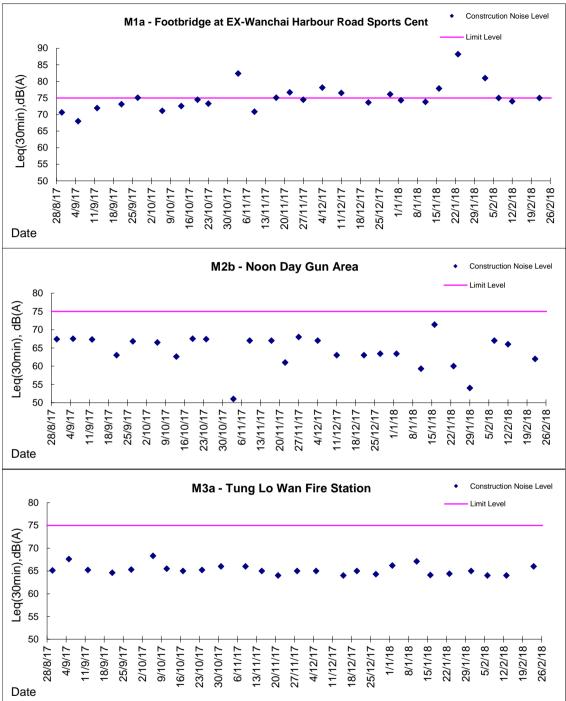
			Measure	ement Noi	se Level	Baseline Level	Construction Noise Level	Limit Level
Date	Time	Weather	Leq L10 L		L90	Leq	Leq	Leq
						Unit: dB	(A), (30-min)	
29/1/18	11:20	Fine			61.7	69	65	75
6/2/18	14:00	Fine	65.3			69	65	75
12/2/18	13:30	Fine	65.5 66.6 62.5 69		66	75		
20/2/18	13:25	Fine	63.7 65.0 61.3		61.3	69	64	75

#### Location: M8 - City Hall

			Measur	ement Noi	se Level	Baseline Level	Construction Noise Level	Limit Level
Date	Time	Weather	Leq L10 L90		L90	Leq	Leq	Leq
					Unit: dB	(A), (30-min)		
31/1/18	14:35	Fine	61.8 63.5 57.9		64	62	70	
6/2/18	13:20	Fine	61.2 63.1 57.9		64	61	70	
12/2/18	14:50	Fine	60.3 62.8 56.7		64	60	70	
20/2/18	14:35	Fine	63.0 64.8 60.1		64	63	70	

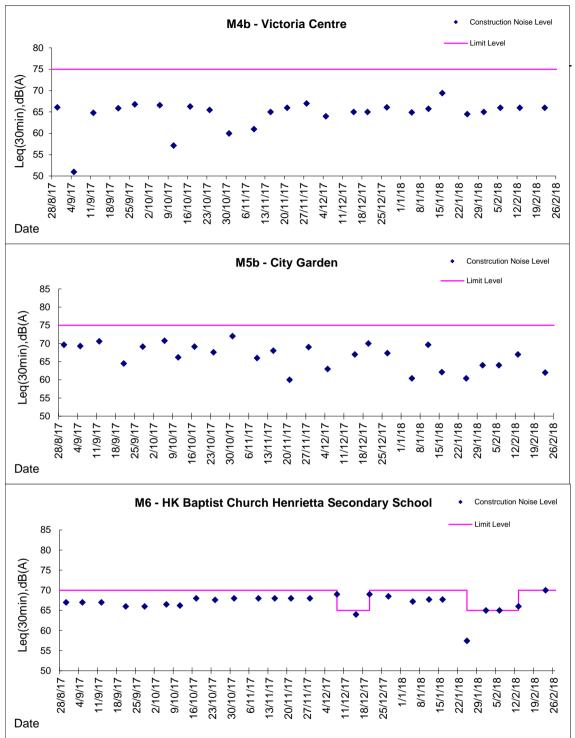






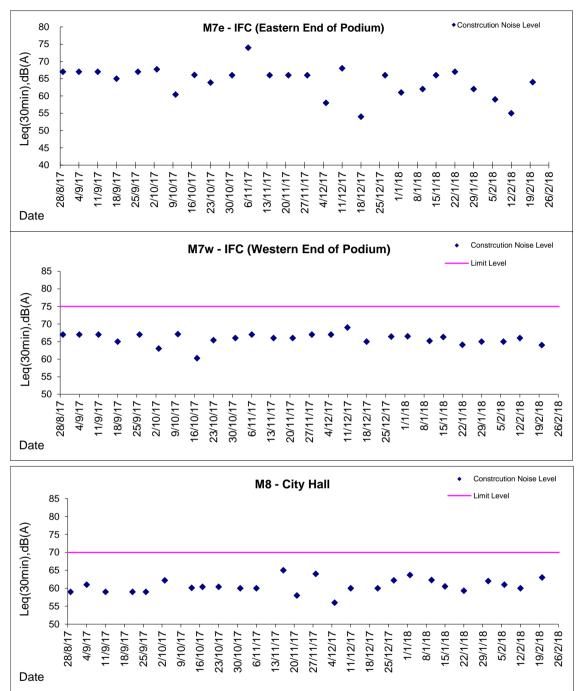


Graphic Presentation of Noise Monitoring Result Day Time (0700 - 1900hrs on normal weekdays)





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



\* Remark: M7e - IFC (Eastern End of Podium) is a reference monitoring station



Appendix 5.3 Air Quality Monitoring Results and Graphical Presentations Location: CMA1b - Harbour Grand Hotel Boundary Wall

## Report on 24-hour TSP monitoring

Action Level (μg/m3) - 176.7 Limit Level (μg/m3) - 260

Date	Sampling	Weather	Filter paper	Filter Weigh	nt, g	Elapse Tim	e, hr	Sampling	Flo	w Rate, m <sup>3</sup> /i	min	Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, $Q_{si}$	Final, Q <sub>sf</sub>	Average	Volume, m <sup>3</sup>	μg/m <sup>3</sup>
29-Jan-18	8:00	Cloudy	24037	2.6836	2.7456	11228.47	11252.47	24.00	1.17	1.17	1.17	1691	36.7
3-Feb-18	8:00	Fine	24125	2.6548	2.7847	11255.49	11279.49	24.00	1.18	1.18	1.18	1696	76.6
9-Feb-18	8:00	Fine	24168	2.6282	2.7327	11282.49	11306.49	24.00	1.16	1.16	1.16	1671	62.5
14-Feb-18	8:00	Cloudy	24268	2.6722	2.7978	11309.49	11333.49	24.00	1.16	1.15	1.16	1668	75.3
20-Feb-18	8:00	Cloudy	24229	2.6674	2.7521	11336.49	11360.49	24.00	1.15	1.16	1.15	1663	50.9
26-Feb-18	8:00	Fine	24455	2.6504	2.7327	11363.49	11387.49	24.00	1.16	1.16	1.16	1670	49.3

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

Date	Sampling	Weather	Filter paper	Filter Weigh	nt, g	Elapse Tim	e, hr	Sampling	Flo	w Rate, m <sup>3</sup> /i	min	Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q <sub>si</sub>	Final, Q <sub>sf</sub>	Average	Volume, m <sup>3</sup>	μ <b>g</b> /m³
30-Jan-18	8:03	Cloudy	23762	2.6112	2.6141	11252.47	11253.47	1.00	1.17	1.17	1.17	70	41.1
30-Jan-18	10:20	Cloudy	24085	2.6780	2.6815	11253.47	11254.47	1.00	1.17	1.17	1.17	70	49.7
30-Jan-18	13:00	Cloudy	24082	2.6869	2.6930	11254.47	11255.47	1.00	1.17	1.17	1.17	70	86.6
5-Feb-18	8:20	Fine	24146	2.6625	2.6709	11279.49	11280.49	1.00	1.18	1.18	1.18	71	118.8
5-Feb-18	10:35	Fine	24193	2.6861	2.6928	11280.49	11281.49	1.00	1.18	1.18	1.18	71	94.8
5-Feb-18	13:30	Fine	24175	2.6691	2.6768	11281.49	11282.49	1.00	1.18	1.18	1.18	71	108.9
10-Feb-18	8:50	Fine	24159	2.6646	2.6731	11306.49	11307.49	1.00	1.16	1.16	1.16	70	122.2
10-Feb-18	10:35	Fine	24262	2.6564	2.6652	11307.49	11308.49	1.00	1.16	1.16	1.16	70	126.6
10-Feb-18	13:00	Fine	24275	2.6635	2.6706	11308.49	11309.49	1.00	1.16	1.16	1.16	70	102.1
15-Feb-18	9:06	Cloudy	24382	2.6649	2.6734	11333.49	11334.49	1.00	1.15	1.15	1.15	69	122.7
15-Feb-18	10:10	Cloudy	24378	2.6549	2.6634	11334.49	11335.49	1.00	1.15	1.15	1.15	69	122.7
15-Feb-18	13:00	Cloudy	24377	2.6661	2.6739	11335.49	11336.49	1.00	1.15	1.15	1.15	69	112.6
21-Feb-18	10:50	Cloudy	24348	2.6608	2.6652	11360.49	11361.49	1.00	1.16	1.16	1.16	69	63.3
21-Feb-18	13:00	Cloudy	24346	2.6581	2.6622	11361.49	11362.49	1.00	1.16	1.16	1.16	69	59.0
21-Feb-18	15:00	Cloudy	24341	2.6477	2.6542	11362.49	11363.49	1.00	1.16	1.16	1.16	69	93.6
27-Feb-18	9:05	Fine	24427	2.6689	2.6792	11387.49	11388.49	1.00	1.16	1.16	1.16	69	148.3
27-Feb-18	10:35	Fine	24420	2.6775	2.6833	11388.49	11389.49	1.00	1.16	1.16	1.16	69	83.5
27-Feb-18	13:00	Fine	24414	2.6582	2.6638	11389.49	11390.49	1.00	1.16	1.16	1.16	69	80.7

Location: CMA2a - Causeway Bay Community Centre

# Report on 24-hour TSP monitoring

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

Date	Sampling	Weather	Filter paper	Filter Weigh	nt, g	Elapse Tim	e, hr	Sampling	Flo	w Rate, m <sup>3</sup> /ı	min	Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q <sub>si</sub>	Final, Q <sub>sf</sub>	Average	Volume, m <sup>3</sup>	μg/m <sup>3</sup>
29-Jan-18	8:00	Cloudy	24030	2.6759	2.7369	20800.30	20824.30	24.00	1.20	1.20	1.20	1727	35.3
3-Feb-18	8:00	Fine	24124	2.6753	2.8355	20827.30	20851.30	24.00	1.20	1.20	1.20	1732	92.5
9-Feb-18	8:00	Fine	24167	2.6912	2.8076	20854.30	20878.30	24.00	1.18	1.18	1.18	1703	68.3
14-Feb-18	8:00	Cloudy	24267	2.6614	2.8041	20881.30	20905.30	24.00	1.18	1.18	1.18	1699	84.0
20-Feb-18	8:00	Cloudy	24237	2.6576	2.7412	20908.30	20932.30	24.00	1.17	1.18	1.18	1694	49.4
26-Feb-18	8:00	Fine	24454	2.6566	2.7337	20935.30	20959.30	24.00	1.06	1.06	1.06	1526	50.5

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

Date	Sampling	Weather	Filter paper	Filter Weigh	it, g	Elapse Tim	e, hr	Sampling	Flo	w Rate, m <sup>3</sup> /ı	min	Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q <sub>si</sub>	Final, Q <sub>sf</sub>	Average	Volume, m <sup>3</sup>	μg/m <sup>3</sup>
30-Jan-18	8:06	Cloudy	23761	2.6201	2.6224	20824.30	20825.30	1.00	1.20	1.20	1.20	72	32.0
30-Jan-18	10:15	Cloudy	24086	2.6833	2.6868	20825.30	20826.30	1.00	1.08	1.08	1.08	65	54.2
30-Jan-18	13:00	Cloudy	24081	2.6834	2.6904	20826.30	20827.30	1.00	1.20	1.20	1.20	72	97.3
5-Feb-18	8:25	Fine	24117	2.6746	2.6831	20851.30	20852.30	1.00	1.20	1.20	1.20	72	117.7
5-Feb-18	10:35	Fine	24192	2.6686	2.6786	20852.30	20853.30	1.00	1.20	1.20	1.20	72	138.5
5-Feb-18	13:40	Fine	24174	2.6822	2.6890	20853.30	20854.30	1.00	1.20	1.20	1.20	72	94.2
10-Feb-18	8:55	Fine	24259	2.6586	2.6711	20878.30	20879.30	1.00	1.12	1.18	1.15	69	181.1
10-Feb-18	10:35	Fine	24283	2.6661	2.6795	20879.30	20880.30	1.00	1.12	1.12	1.12	67	199.4
10-Feb-18	13:00	Fine	24265	2.6627	2.6770	20880.30	20881.30	1.00	1.18	1.18	1.18	71	201.9
15-Feb-18	9:00	Cloudy	24381	2.6541	2.6618	20905.30	20906.30	1.00	1.18	1.18	1.18	71	109.1
15-Feb-18	10:26	Cloudy	24358	2.6599	2.6679	20906.30	20907.30	1.00	1.05	1.05	1.05	63	126.4
15-Feb-18	13:00	Cloudy	24227	2.6717	2.6786	20907.30	20908.30	1.00	1.05	1.05	1.05	63	109.0
21-Feb-18	11:00	Cloudy	24347	2.6600	2.6635	20932.30	20933.30	1.00	1.12	1.12	1.12	67	52.1
21-Feb-18	13:00	Cloudy	24345	2.6507	2.6531	20933.30	20934.30	1.00	1.06	1.06	1.06	63	37.8
21-Feb-18	14:50	Cloudy	24342	2.6632	2.6700	20934.30	20935.30	1.00	1.18	1.18	1.18	71	96.1
27-Feb-18	9:10	Fine	24428	2.6596	2.6665	20959.30	20960.30	1.00	1.06	1.06	1.06	63	108.8
27-Feb-18	10:15	Fine	24419	2.6483	2.6550	20960.30	20961.30	1.00	1.18	1.18	1.18	71	94.7
27-Feb-18	13:00	Fine	24413	2.6638	2.6723	20961.30	20962.30	1.00	1.12	1.12	1.12	67	126.7

Location: CMA3a - CWB PRE Site Office Area

# Report on 24-hour TSP monitoring

Action Level (μg/m3) - 171 Limit Level (μg/m3) - 260

Date	Sampling	Weather	Filter	Filter Weigh	nt, g	Elapse Tim	e, hr	Sampling	Flo	w Rate, m <sup>3</sup> /	min	Total	TSP Level,
	Time	Condition	paper no.	Initial	Final	Initial	Final	Time, hr	Initial, Q <sub>si</sub>	Final, Q <sub>sf</sub>	Average	Volume, m <sup>3</sup>	μg/m³
29-Jan-18	8:00	Cloudy	24038	2.6799	2.7441	8294.32	8318.32	24.00	1.08	1.08	1.08	1551	41.4
3-Feb-18	8:00	Fine	24123	2.6635	2.8321	8321.32	8345.32	24.00	1.08	1.08	1.08	1558	108.2
9-Feb-18	8:00	Fine	24169	2.6399	2.7699	8348.32	8372.32	24.00	1.06	1.06	1.06	1525	85.3
14-Feb-18	8:00	Cloudy	24266	2.6839	2.8405	8375.32	8399.32	24.00	1.06	1.05	1.06	1520	103.0
20-Feb-18	8:00	Cloudy	24238	2.6524	2.7183	8402.33	8426.33	24.00	0.95	0.95	0.95	1367	48.2
26-Feb-18	8:00	Fine	24461	2.6709	2.7591	8429.33	8453.33	24.00	1.06	1.05	1.06	1523	57.9

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

Date	Sampling	Weather	Filter	Filter Weigh	nt, g	Elapse Tim	e, hr	Sampling	Flo	w Rate, m <sup>3</sup> /	min	Total	TSP Level,
	Time	Condition	paper no.	Initial	Final	Initial	Final	Time, hr	Initial, $Q_{si}$	Final, Q <sub>sf</sub>	Average	Volume, m <sup>3</sup>	μ <b>g</b> /m³
30-Jan-18	8:47	Cloudy	23515	2.6032	2.6059	8318.32	8319.32	1.00	1.08	1.08	1.08	65	41.8
30-Jan-18	10:50	Cloudy	24083	2.6839	2.6849	8319.32	8320.32	1.00	0.94	0.94	0.94	56	17.8
30-Jan-18	13:10	Cloudy	24116	2.6709	2.6722	8320.32	8321.32	1.00	1.08	1.08	1.08	65	20.1
5-Feb-18	8:10	Fine	24132	2.6711	2.6754	8345.32	8346.32	1.00	1.01	1.01	1.01	61	70.8
5-Feb-18	10:00	Fine	24147	2.6725	2.6803	8346.32	8347.32	1.00	1.08	1.08	1.08	65	120.1
5-Feb-18	13:25	Fine	24176	2.6615	2.6686	8347.32	8348.32	1.00	1.08	1.08	1.08	65	109.3
10-Feb-18	8:40	Fine	24160	2.6613	2.6701	8372.32	8373.32	1.00	1.06	1.06	1.06	63	138.8
10-Feb-18	10:25	Fine	24282	2.6687	2.6777	8373.32	8374.32	1.00	1.06	1.06	1.06	63	142.0
10-Feb-18	13:00	Fine	24264	2.6569	2.6709	8374.32	8375.32	1.00	1.06	1.06	1.06	63	220.8
15-Feb-18	8:45	Cloudy	24364	2.6660	2.6721	8399.33	8400.33	1.00	0.98	0.98	0.98	59	103.4
15-Feb-18	10:11	Cloudy	24359	2.6681	2.6721	8400.33	8401.33	1.00	0.91	0.91	0.91	55	72.9
15-Feb-18	13:00	Cloudy	24354	2.6638	2.6709	8401.33	8402.33	1.00	0.95	0.95	0.95	57	124.7
21-Feb-18	9:45	Cloudy	24371	2.6677	2.6716	8426.33	8427.33	1.00	1.06	1.06	1.06	63	61.6
21-Feb-18	10:50	Cloudy	24375	2.6598	2.6638	8427.33	8428.33	1.00	1.06	1.06	1.06	63	63.2
21-Feb-18	13:00	Cloudy	24464	2.6784	2.6828	8428.33	8429.33	1.00	1.06	1.06	1.06	63	69.5
27-Feb-18	8:45	Fine	24431	2.6570	2.6634	8453.33	8454.33	1.00	1.05	1.05	1.05	63	101.2
27-Feb-18	10:15	Fine	24422	2.6457	2.6524	8454.33	8455.33	1.00	1.05	1.05	1.05	63	105.9
27-Feb-18	13:00	Fine	24405	2.6602	2.6677	8455.33	8456.33	1.00	1.05	1.05	1.05	63	118.6

Location: CMA4a - SPCA

Report on 24-hour TSP monitoring

Action Level (μg/m3) - 171.2 Limit Level (μg/m3) - 260

Date	Sampling	Weather	Filter	Filter Weigh	nt, g	Elapse Tim	e, hr	Sampling	Flo	w Rate, m <sup>3</sup> /i	min	Total	TSP Level,
	Time	Condition	paper no.	Initial	Final	Initial	Final	Time, hr	Initial, $Q_{si}$	Final, $Q_{sf}$	Average	Volume, m <sup>3</sup>	<sup>β</sup> μg/m <sup>3</sup>
29-Jan-18	8:00	Cloudy	24029	2.6919	2.7402	25109.23	25133.23	24.00	1.23	1.23	1.23	1770	27.3
3-Feb-18	8:00	Fine	24142	2.6636	2.8150	25136.23	25160.23	24.00	1.23	1.23	1.23	1774	85.3
9-Feb-18	8:00	Fine	24170	2.6623	2.7999	25163.23	25187.23	24.00	1.22	1.22	1.22	1752	78.5
14-Feb-18	8:00	Cloudy	24273	2.6446	2.7855	25190.24	25214.24	24.00	1.22	1.21	1.21	1749	80.5
21-Feb-18	16:30	Cloudy	24434	2.6712	2.7267	25231.52	25255.52	24.00	1.21	1.22	1.22	1753	31.7
26-Feb-18	8:00	Fine	24453	2.6619	2.7298	25255.52	25279.52	24.00	1.22	1.21	1.22	1751	38.8

Remarks: Due to interruption of electricity, the 24hr TSP was rescheduled from 20 February 2018 to 21 February 2018.

#### Report on 1-hour TSP monitoring

 Action Level (μg/m3) 312.5

 Limit Level (μg/m3) 500

Date	Sampling	Weather	Filter	Filter Weigh	nt, g	Elapse Time	e, hr	Sampling	Flo	w Rate, m <sup>3</sup> /i	min	Total	TSP Level,
	Time	Condition	paper no.	Initial	Final	Initial	Final	Time, hr	Initial, Q <sub>si</sub>	Final, Q <sub>sf</sub>	Average	Volume, m <sup>3</sup>	μg/m <sup>3</sup>
30-Jan-18	8:58	Cloudy	23516	2.6111	2.6136	25133.23	25134.23	1.00	1.23	1.23	1.23	74	33.9
30-Jan-18	10:40	Cloudy	24084	2.6697	2.6731	25134.23	25135.23	1.00	1.23	1.23	1.23	74	46.1
30-Jan-18	13:00	Cloudy	24115	2.6678	2.6700	25135.23	25136.23	1.00	1.23	1.23	1.23	74	29.8
5-Feb-18	8:02	Fine	24133	2.6686	2.6738	25160.23	25161.23	1.00	1.23	1.23	1.23	74	70.3
5-Feb-18	9:45	Fine	24194	2.6842	2.6913	25161.23	25162.23	1.00	1.23	1.23	1.23	74	96.0
5-Feb-18	13:10	Fine	24177	2.6513	2.6587	25162.23	25163.23	1.00	1.23	1.23	1.23	74	100.0
10-Feb-18	8:45	Fine	24163	2.6601	2.6683	25187.24	25188.24	1.00	1.32	1.32	1.32	79	103.7
10-Feb-18	10:20	Fine	24154	2.6846	2.6927	25188.24	25189.24	1.00	1.32	1.32	1.32	79	102.5
10-Feb-18	13:00	Fine	24263	2.6449	2.6590	25189.24	25190.24	1.00	1.32	1.32	1.32	79	178.4
15-Feb-18	8:35	Cloudy	24365	2.6650	2.6757	25214.24	25215.24	1.00	1.21	1.21	1.21	73	147.2
15-Feb-18	10:00	Cloudy	24360	2.6524	2.6598	25215.24	25216.24	1.00	1.21	1.21	1.21	73	101.8
15-Feb-18	13:00	Cloudy	24353	2.6651	2.6713	25216.24	25217.24	1.00	1.21	1.21	1.21	73	85.3
21-Feb-18	13:00	Cloudy	24374	2.6576	2.6630	25228.52	25229.52	1.00	1.27	1.27	1.27	76	71.1
21-Feb-18	14:10	Cloudy	24460	2.6873	2.6886	25229.52	25230.52	1.00	1.21	1.21	1.21	73	17.8
21-Feb-18	15:15	Cloudy	24432	2.6503	2.6555	25230.52	25231.52	1.00	1.21	1.21	1.21	73	71.4
27-Feb-18	8:50	Fine	24430	2.6398	2.6453	25279.52	25280.52	1.00	1.21	1.21	1.21	73	75.5
27-Feb-18	10:15	Fine	24423	2.6535	2.6575	25280.52	25281.52	1.00	1.21	1.21	1.21	73	54.9
27-Feb-18	13:00	Fine	24412	2.6581	2.6628	25281.52	25282.52	1.00	1.21	1.21	1.21	73	64.5

Location: CMA5b - Pedestrian Plaza

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

Date	Sampling	Weather	Filter paper	Filter Weigh	nt, g	Elapse Time	e, hr	Sampling	Flo	w Rate, m <sup>3</sup> /ı	min	Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q <sub>si</sub>	Final, Q <sub>sf</sub>	Average	Volume, m <sup>3</sup>	μg/m <sup>3</sup>
29-Jan-18	8:00	Cloudy	24026	2.6859	2.8014	9713.36	9737.36	24.00	0.89	0.89	0.89	1278	90.4
3-Feb-18	8:00	Fine	24121	2.6537	2.7517	9740.36	9764.36	24.00	0.77	0.77	0.77	1111	88.2
9-Feb-18	8:00	Fine	24181	2.6504	2.9062	9767.36	9791.36	24.00	0.99	0.99	0.99	1424	179.6
14-Feb-18	8:00	Cloudy	24274	2.6356	2.8660	9794.36	9818.36	24.00	0.93	0.92	0.93	1336	172.5
20-Feb-18	8:00	Cloudy	24241	2.6711	2.7701	9821.36	9845.36	24.00	0.75	0.75	0.75	1078	91.9
26-Feb-18	8:00	Fine	24456	2.6666	2.7408	9849.36	9873.36	24.00	0.76	0.75	0.75	1085	68.4

#### Report on 1-hour TSP monitoring

Action Level (μg/m3) -Limit Level (μg/m3) -332 500

Date	Sampling	Weather	Filter paper	Filter Weigh	nt, g	Elapse Time	e, hr	Sampling	Flo	w Rate, m <sup>3</sup> /ı	min	Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q <sub>si</sub>	Final, Q <sub>sf</sub>	Average	Volume, m <sup>3</sup>	μg/m <sup>3</sup>
30-Jan-18	9:15	Cloudy	23517	2.6163	2.6228	9737.36	9738.36	1.00	0.77	0.77	0.77	46	141.0
30-Jan-18	10:27	Cloudy	24057	2.6941	2.7012	9738.36	9739.36	1.00	0.77	0.77	0.77	46	154.0
30-Jan-18	13:00	Cloudy	24056	2.6812	2.6911	9739.36	9740.36	1.00	0.77	0.77	0.77	46	214.7
5-Feb-18	9:00	Fine	24196	2.6539	2.6705	9764.36	9765.36	1.00	0.89	0.89	0.89	53	310.3
5-Feb-18	13:00	Fine	24178	2.6711	2.6840	9765.36	9766.36	1.00	0.89	0.89	0.89	53	241.1
5-Feb-18	14:10	Fine	24171	2.6541	2.6709	9766.36	9767.36	1.00	0.89	0.89	0.89	53	314.0
10-Feb-18	8:05	Fine	24255	2.6502	2.6663	9791.36	9792.36	1.00	0.81	0.81	0.81	49	330.8
10-Feb-18	9:30	Fine	24158	2.6683	2.6819	9792.36	9793.36	1.00	0.87	0.87	0.87	52	260.6
10-Feb-18	10:50	Fine	24280	2.6719	2.6856	9793.36	9794.36	1.00	0.87	0.87	0.87	52	262.6
15-Feb-18	8:12	Cloudy	24368	2.6598	2.6682	9818.36	9819.36	1.00	0.75	0.75	0.75	45	187.1
15-Feb-18	9:15	Cloudy	24363	2.6747	2.6833	9819.36	9820.36	1.00	0.75	0.75	0.75	45	191.5
15-Feb-18	10:48	Cloudy	24357	2.6627	2.6691	9820.36	9821.36	1.00	0.75	0.75	0.75	45	142.5
21-Feb-18	13:00	Cloudy	24352	2.6472	2.6544	9845.36	9846.36	1.00	0.75	0.75	0.75	45	159.7
21-Feb-18	14:05	Cloudy	24465	2.6763	2.6890	9846.36	9847.36	1.00	0.87	0.87	0.87	52	243.7
21-Feb-18	15:10	Cloudy	24457	2.6737	2.6865	9847.36	9848.36	1.00	0.87	0.87	0.87	52	245.7
27-Feb-18	8:10	Fine	24440	2.6603	2.6677	9873.36	9874.36	1.00	0.75	0.75	0.75	45	164.3
27-Feb-18	9:50	Fine	24426	2.6709	2.6792	9874.36	9875.36	1.00	0.81	0.81	0.81	49	170.9
27-Feb-18	13:00	Fine	24418	2.6556	2.6690	9875.36	9876.36	1.00	0.81	0.81	0.81	49	276.0

Location: MA1e - International Finance Centre (Eastern Wing)

#### Report on 24-hour TSP monitoring

Action Level (μg/m3) -	173.4
Limit Level (µg/m3) -	260

Date	Sampling	Weather	Filter paper	Filter Weigh	nt, g	Elapse Tim	e, hr	Sampling	Flo	w Rate, m <sup>3</sup> /i	min	Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q <sub>si</sub>	Final, Q <sub>sf</sub>	Average	Volume, m <sup>3</sup>	μg/m³
29-Jan-18	8:00	Cloudy	24075	2.6859	2.7276	21997.99	22021.99	24.00	1.13	1.13	1.13	1625	25.7
3-Feb-18	8:00	Fine	24119	2.6803	2.7807	22024.99	22048.99	24.00	1.13	1.13	1.13	1630	61.6
9-Feb-18	8:00	Fine	23535	2.6139	2.7003	22051.99	22075.99	24.00	1.12	1.11	1.11	1604	53.9
14-Feb-18	8:00	Cloudy	24271	2.6643	2.7689	22078.99	22102.99	24.00	1.11	1.11	1.11	1600	65.4
20-Feb-18	8:00	Cloudy	24068	2.6611	2.7405	22105.99	22129.99	24.00	1.10	1.11	1.11	1595	49.8
26-Feb-18	8:00	Fine	24224	2.6800	2.7357	22132.99	22156.99	24.00	1.12	1.11	1.11	1602	34.8

# Report on 1-hour TSP monitoring

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

500

			Filter paper										
Date	Sampling	Weather		Filter Weigh	nt, g	Elapse Time	e, hr	Sampling	Flo	w Rate, m <sup>3</sup> /r	min	Total	TSP Level,
	Time	Condition		Initial	Final	Initial	Final	Time, hr	Initial, Q <sub>si</sub>	Final, Q <sub>sf</sub>	Average	Volume, m <sup>3</sup>	μg/m <sup>3</sup>
30-Jan-18	9:05	Cloudy	23930	2.6643	2.6653	22021.99	22022.99	1.00	1.25	1.25	1.25	75	13.3
30-Jan-18	10:10	Cloudy	23934	2.6627	2.6647	22022.99	22023.99	1.00	1.19	1.19	1.19	71	28.0
30-Jan-18	13:00	Cloudy	23940	2.6652	2.6683	22023.99	22024.99	1.00	1.13	1.13	1.13	68	45.8
5-Feb-18	13:00	Fine	24190	2.6673	2.6716	22048.99	22049.99	1.00	1.26	1.26	1.26	75	57.0
5-Feb-18	14:05	Fine	24187	2.6568	2.6607	22049.99	22050.99	1.00	1.13	1.13	1.13	68	57.4
5-Feb-18	15:10	Fine	24184	2.6568	2.6638	22050.99	22051.99	1.00	1.13	1.13	1.13	68	103.0
10-Feb-18	8:30	Fine	24162	2.6698	2.6741	22075.99	22076.99	1.00	1.11	1.11	1.11	67	64.5
10-Feb-18	10:05	Fine	24156	2.6713	2.6758	22076.99	22077.99	1.00	1.11	1.11	1.11	67	67.5
10-Feb-18	13:00	Fine	24277	2.6725	2.6808	22077.99	22078.99	1.00	1.11	1.11	1.11	67	124.4
15-Feb-18	9:14	Cloudy	24379	2.6535	2.6589	22102.99	22103.99	1.00	1.11	1.11	1.11	66	81.3
15-Feb-18	10:18	Cloudy	24074	2.6787	2.6853	22103.99	22104.99	1.00	1.23	1.23	1.23	74	89.4
15-Feb-18	13:00	Cloudy	24071	2.6733	2.6747	22104.99	22105.99	1.00	1.11	1.11	1.11	66	21.1
21-Feb-18	8:33	Cloudy	24066	2.6827	2.6861	22129.99	22130.99	1.00	1.11	1.11	1.11	67	51.0
21-Feb-18	10:07	Cloudy	24060	2.6742	2.6787	22130.99	22131.99	1.00	1.11	1.17	1.14	68	65.7
21-Feb-18	13:00	Cloudy	23634	2.6929	2.6985	22131.99	22132.99	1.00	1.11	1.17	1.14	68	81.8
27-Feb-18	9:01	Fine	24402	2.6566	2.6612	22156.99	22157.99	1.00	1.11	1.11	1.11	67	69.1
27-Feb-18	10:03	Fine	24220	2.6769	2.6812	22157.99	22158.99	1.00	1.11	1.11	1.11	67	64.6
27-Feb-18	13:00	Fine	24218	2.6535	2.6572	22158.99	22159.99	1.00	1.11	1.11	1.11	67	55.6

Location: MA1w - International Finance Centre (Western Wing)

#### Report on 24-hour TSP monitoring

Action Level (μg/m3) - 173.4 Limit Level (μg/m3) - 260

Date	Sampling	Weather	Filter paper	Filter Weigh	nt, g	Elapse Tim	e, hr	Sampling	Flo	w Rate, m <sup>3</sup> /ı	min	Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q <sub>si</sub>	Final, Q <sub>sf</sub>	Average	Volume, m <sup>3</sup>	μ <b>g/m</b> ³
29-Jan-18	8:00	Cloudy	24077	2.6630	2.7338	21786.86	21810.86	24.00	1.42	1.42	1.42	2045	34.6
3-Feb-18	8:00	Fine	24118	2.6639	2.8521	21813.86	21837.86	24.00	1.48	1.48	1.48	2131	88.3
9-Feb-18	8:00	Fine	21888	2.8432	2.9958	21840.86	21864.86	24.00	1.46	1.46	1.46	2105	72.5
14-Feb-18	8:00	Cloudy	24272	2.6424	2.8074	21867.86	21891.86	24.00	1.41	1.46	1.43	2061	80.1
20-Feb-18	8:00	Cloudy	24069	2.6561	2.7557	21894.86	21918.86	24.00	1.34	1.35	1.34	1936	51.5
26-Feb-18	8:00	Fine	24225	2.6672	2.7596	21921.86	21945.86	24.00	1.46	1.46	1.46	2103	43.9

### Report on 1-hour TSP monitoring

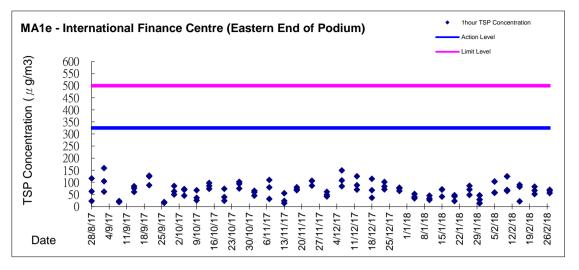
Action Level (µg/m3) - 325.1

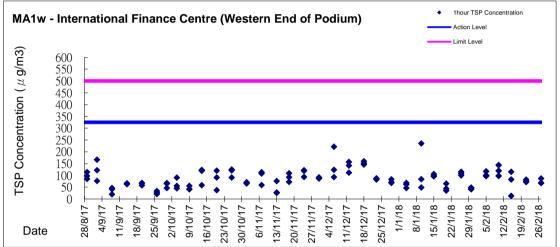
Limit Level (µg/m3) - 500

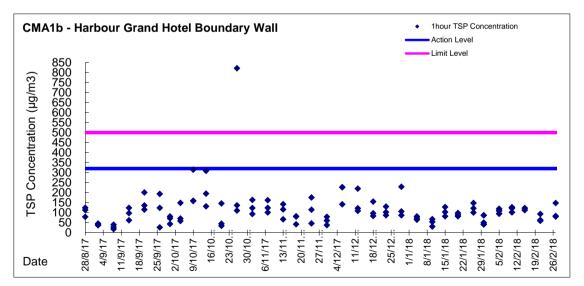
Date	Sampling	Weather	Filter paper	Filter Weigh	nt, g	Elapse Tim	e, hr	Sampling	Flo	w Rate, m <sup>3</sup> /r	min	Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q <sub>si</sub>	Final, Q <sub>sf</sub>	Average	Volume, m <sup>3</sup>	μg/m <sup>3</sup>
30-Jan-18	9:00	Cloudy	23931	2.6504	2.6538	21810.86	21811.86	1.00	1.36	1.36	1.36	82	41.6
30-Jan-18	10:02	Cloudy	23935	2.6636	2.6675	21811.86	21812.86	1.00	1.36	1.36	1.36	82	47.7
30-Jan-18	13:00	Cloudy	23932	2.6717	2.6756	21812.86	21813.86	1.00	1.36	1.36	1.36	82	47.7
5-Feb-18	13:00	Fine	24189	2.6621	2.6710	21837.86	21838.86	1.00	1.48	1.48	1.48	89	100.2
5-Feb-18	14:10	Fine	24186	2.6814	2.6897	21838.86	21839.86	1.00	1.42	1.42	1.42	85	97.2
5-Feb-18	15:15	Fine	24183	2.6587	2.6691	21839.86	21840.86	1.00	1.48	1.48	1.48	89	117.1
10-Feb-18	8:25	Fine	24161	2.6476	2.6562	21864.86	21865.86	1.00	1.46	1.46	1.46	88	98.2
10-Feb-18	10:00	Fine	24157	2.6697	2.6802	21865.86	21866.86	1.00	1.46	1.46	1.46	88	119.9
10-Feb-18	13:00	Fine	24278	2.6654	2.6780	21866.86	21867.86	1.00	1.46	1.46	1.46	88	143.9
15-Feb-18	9:06	Cloudy	24380	2.6530	2.6597	21891.86	21892.86	1.00	1.34	1.34	1.34	81	83.1
15-Feb-18	10:11	Cloudy	24369	2.6737	2.6748	21892.86	21893.86	1.00	1.40	1.40	1.40	84	13.1
15-Feb-18	13:00	Cloudy	24072	2.6690	2.6787	21893.86	21894.86	1.00	1.40	1.40	1.40	84	115.5
21-Feb-18	8:37	Cloudy	24067	2.6812	2.6878	21918.86	21919.86	1.00	1.46	1.46	1.46	88	75.4
21-Feb-18	9:40	Cloudy	24064	2.6852	2.6920	21919.86	21920.86	1.00	1.35	1.40	1.37	82	82.4
21-Feb-18	13:00	Cloudy	23635	2.6743	2.6806	21920.86	21921.86	1.00	1.46	1.46	1.46	88	72.0
27-Feb-18	8:54	Fine	24392	2.6348	2.6424	21945.86	21946.86	1.00	1.46	1.46	1.46	87	86.9
27-Feb-18	9:58	Fine	24222	2.6489	2.6549	21946.86	21947.86	1.00	1.46	1.46	1.46	87	68.6
27-Feb-18	11:00	Fine	24219	2.6741	2.6800	21947.86	21948.86	1.00	1.46	1.46	1.46	87	67.4



**Graphic Presentation of 1 hour TSP Result** 

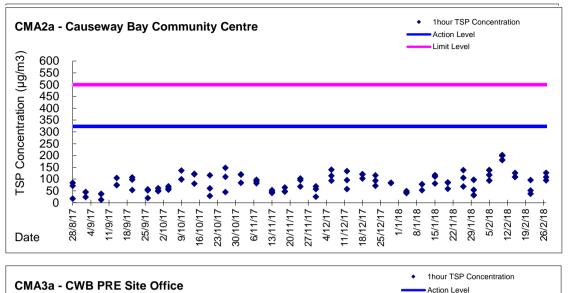


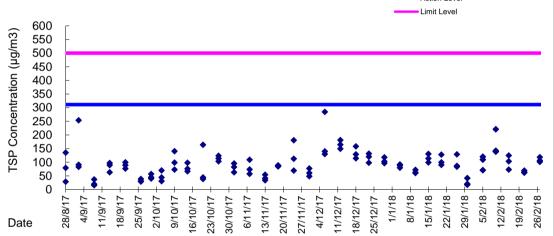


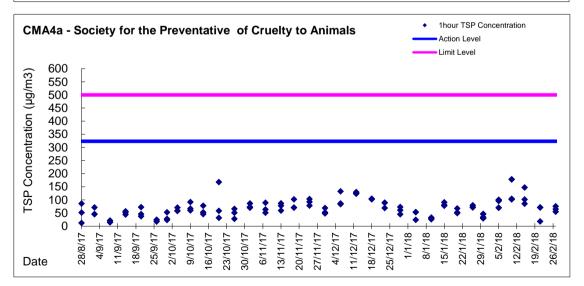




**Graphic Presentation of 1 hour TSP Result** 

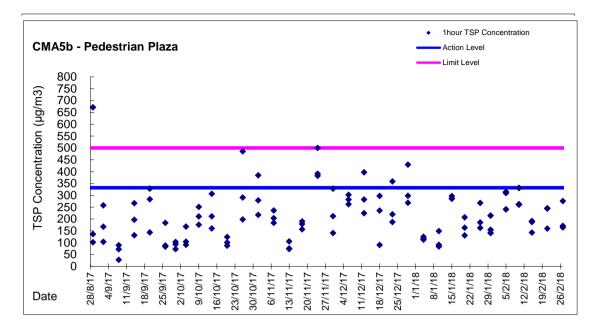






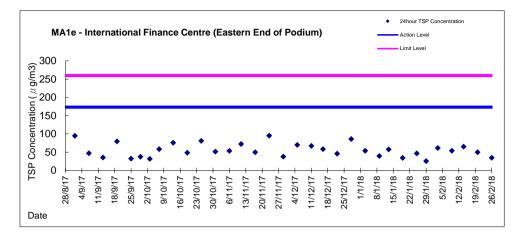


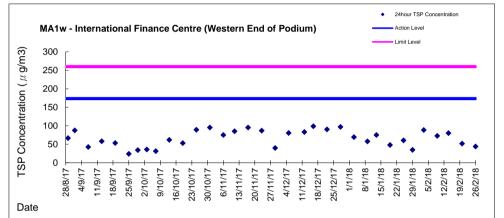
**Graphic Presentation of 1 hour TSP Result** 

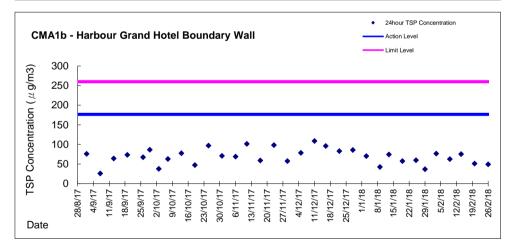




Graphic Presentation of 24 hour TSP Result

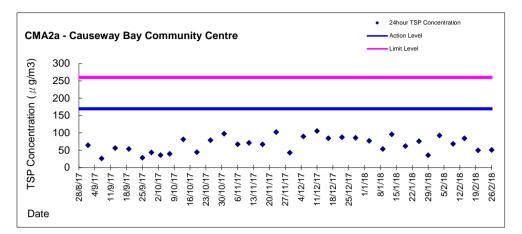


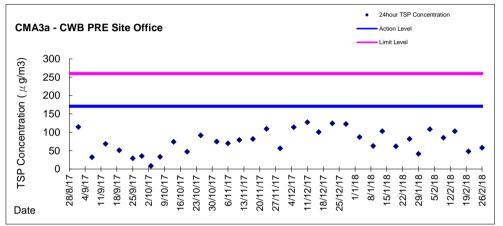


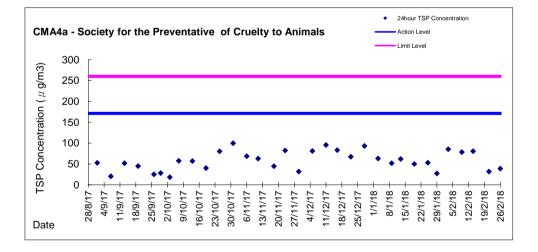




Graphic Presentation of 24 hour TSP Result

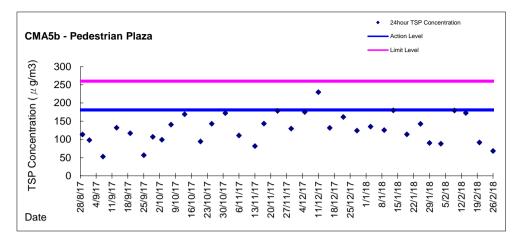








Graphic Presentation of 24 hour TSP Result





Appendix 5.4 Real Time Noise Monitoring Results and Graphical Presentations

Deal time Naine Date	DTN4 (Feed and Feedback state)	hairen Denertment Deneti			
Real-time Noise Data Normal Day 07:00-19:00	RTN1 (Food and Environmental H 1/2/18 12:31 70	7/2/18 7:01 68	12/2/18 13:31 70	21/2/18 8:01 70	26/2/18 14:31 71
27/1/18 7:01 67	1/2/18 13:01 70	7/2/18 7:31 70	12/2/18 14:01 70	21/2/18 8:31 70	26/2/18 15:01 71
	1/2/18 13:31 70	7/2/18 8:01 69	12/2/18 14:31 70	21/2/18 9:01 70	26/2/18 15:31 70
27/1/18 7:31 69	1/2/18 14:01 70	7/2/18 8:31 69	12/2/18 15:01 68	21/2/18 9:31 70	26/2/18 16:01 71
27/1/18 8:01 70	1/2/18 14:31 70	7/2/18 9:01 69	12/2/18 15:31 68	21/2/18 10:01 70	26/2/18 16:31 70
27/1/18 8:31 72	1/2/18 15:01 70	7/2/18 9:31 69	12/2/18 16:01 69	21/2/18 10:31 70	26/2/18 17:01 70
27/1/18 9:01 71	1/2/18 15:31 70	7/2/18 10:01 70	12/2/18 16:31 69	21/2/18 11:01 70	26/2/18 17:31 70
27/1/18 9:31 72	1/2/18 16:01 70	7/2/18 10:31 70	12/2/18 17:01 70	21/2/18 11:31 70	26/2/18 18:01 70
27/1/18 10:01 72	1/2/18 16:31 69	7/2/18 11:01 70	12/2/18 17:31 70	21/2/18 12:01 70	26/2/18 18:31 70
27/1/18 10:31 71	1/2/18 17:01 70	7/2/18 11:31 70	12/2/18 18:01 68	21/2/18 12:31 70	Normal Day 10:00 22:00
27/1/18 11:01 71	1/2/18 17:31 70	7/2/18 12:01 68	12/2/18 18:31 68	21/2/18 13:01 70	Normal Day 19:00-23:00,
27/1/18 11:31 70	1/2/18 18:01 69	7/2/18 12:31 69	13/2/18 7:01 68	21/2/18 13:31 70	Sunday & Holiday
27/1/18 12:01 69	1/2/18 18:31 69	7/2/18 13:01 69	13/2/18 7:31 70	21/2/18 14:01 70	<u>07:00-23:00</u>
27/1/18 12:31 70	2/2/18 7:01 68	7/2/18 13:31 70	13/2/18 8:01 69	21/2/18 14:31 70	
27/1/18 13:01 71	2/2/18 7:31 70	7/2/18 14:01 70	13/2/18 8:31 68	21/2/18 15:01 70	27/1/18 19:01 65
27/1/18 13:31 71	2/2/18 8:01 70	7/2/18 14:31 70	13/2/18 9:01 70	21/2/18 15:31 70	27/1/18 19:06 66
27/1/18 14:01 69	2/2/18 8:31 70	7/2/18 15:01 69	13/2/18 9:31 70	21/2/18 16:01 70	27/1/18 19:11 66
27/1/18 14:31 70	2/2/18 9:01 70	7/2/18 15:31 69	13/2/18 10:01 71	21/2/18 16:31 70	27/1/18 19:16 66
27/1/18 15:01 69	2/2/18 9:31 70	7/2/18 16:01 69	13/2/18 10:31 70	21/2/18 17:01 70	27/1/18 19:21 66
27/1/18 15:31 69	2/2/18 10:01 70	7/2/18 16:31 69	13/2/18 11:01 69	21/2/18 17:31 70	27/1/18 19:26 67
27/1/18 16:01 70	2/2/18 10:31 70	7/2/18 17:01 69	13/2/18 11:31 69	21/2/18 18:01 70	27/1/18 19:31 67
27/1/18 16:31 69	2/2/18 11:01 70	7/2/18 17:31 69	13/2/18 12:01 68	21/2/18 18:31 69	27/1/18 19:36 67
27/1/18 17:01 69	2/2/18 11:31 70	7/2/18 18:01 69	13/2/18 12:31 68	22/2/18 7:01 67	27/1/18 19:41 66
27/1/18 17:31 69	2/2/18 12:01 69	7/2/18 18:31 68	13/2/18 13:01 69	22/2/18 7:31 70	27/1/18 19:46 66
27/1/18 18:01 68	2/2/18 12:31 69	8/2/18 7:01 68	13/2/18 13:31 71	22/2/18 8:01 71	27/1/18 19:51 68
27/1/18 18:31 68	2/2/18 13:01 70	8/2/18 7:31 70	13/2/18 14:01 70	22/2/18 8:31 71	27/1/18 19:56 67
29/1/18 7:01 68	2/2/18 13:31 70	8/2/18 8:01 71	13/2/18 14:31 69	22/2/18 9:01 71	27/1/18 20:01 67
29/1/18 7:31 70	2/2/18 14:01 70	8/2/18 8:31 69	13/2/18 15:01 69	22/2/18 9:31 71	27/1/18 20:06 67
29/1/18 8:01 69	2/2/18 14:31 70	8/2/18 9:01 68	13/2/18 15:31 69	22/2/18 10:01 71	27/1/18 20:11 67
29/1/18 8:31 68	2/2/18 15:01 69	8/2/18 9:31 69	13/2/18 16:01 69	22/2/18 10:31 70	27/1/18 20:16 67
29/1/18 8:31 68 29/1/18 9:01 69	2/2/18 15:01 69 2/2/18 15:31 69	8/2/18 9:31 69 8/2/18 10:01 69	13/2/18 16:31 69	22/2/18 11:01 70	27/1/18 20:16 67 27/1/18 20:21 67
29/1/18 9:31 71	2/2/18 16:01 69	8/2/18 10:31 69	13/2/18 17:01 70	22/2/18 11:31 70	27/1/18 20:26 67
29/1/18 10:01 71	2/2/18 16:31 70	8/2/18 11:01 69	13/2/18 17:31 71	22/2/18 12:01 70	27/1/18 20:31 67
29/1/18 10:31 72	2/2/18 17:01 69	8/2/18 11:31 68	13/2/18 18:01 70	22/2/18 12:31 70	27/1/18 20:36 67
29/1/18 11:01 71	2/2/18 17:31 69	8/2/18 12:01 68	13/2/18 18:31 70	22/2/18 13:01 70	27/1/18 20:41 67
29/1/18 11:31 70	2/2/18 18:01 68	8/2/18 12:31 67	14/2/18 7:01 68	22/2/18 13:31 70	27/1/18 20:46 68
29/1/18 12:01 70	2/2/18 18:31 67	8/2/18 13:01 69	14/2/18 7:31 70	22/2/18 14:01 71	27/1/18 20:51 67
29/1/18 12:31 70	3/2/18 7:01 69	8/2/18 13:31 69	14/2/18 8:01 70	22/2/18 14:31 70	27/1/18 20:56 67
29/1/18 13:01 71	3/2/18 7:31 69	8/2/18 14:01 70	14/2/18 8:31 69	22/2/18 15:01 70	27/1/18 21:01 68
29/1/18 13:31 71 29/1/18 14:01 71	3/2/18 8:01 70	8/2/18 14:31 69 8/2/18 15:01 70	14/2/18 9:01 69	22/2/18 15:31 70 22/2/18 16:01 70	27/1/18 21:06 67 27/1/18 21:11 67
29/1/18 14:31 71	3/2/18 8:31 70 3/2/18 9:01 70	8/2/18 15:31 69	14/2/18 9:31 69 14/2/18 10:01 70	22/2/18 16:01 70	27/1/18 21:16 67
29/1/18 15:01 70	3/2/18 9:31 70	8/2/18 16:01 69	14/2/18 10:31 70	22/2/18 17:01 70	27/1/18 21:21 67
29/1/18 15:31 70	3/2/18 10:01 71	8/2/18 16:31 69	14/2/18 11:01 70	22/2/18 17:31 70	27/1/18 21:26 67
29/1/18 16:01 71	3/2/18 10:31 70	8/2/18 17:01 69	14/2/18 11:31 69	22/2/18 18:01 70	27/1/18 21:31 67
29/1/18 16:31 70	3/2/18 11:01 70	8/2/18 17:31 68	14/2/18 12:01 69	22/2/18 18:31 70	27/1/18 21:36 67
29/1/18 17:01 70	3/2/18 11:31 69	8/2/18 18:01 68	14/2/18 12:31 70	23/2/18 7:01 69	27/1/18 21:41 67
29/1/18 17:31 69	3/2/18 12:01 70	8/2/18 18:31 68	14/2/18 13:01 70	23/2/18 7:31 71	27/1/18 21:46 67
29/1/18 18:01 69	3/2/18 12:31 70	9/2/18 7:01 68	14/2/18 13:31 70	23/2/18 8:01 71	27/1/18 21:51 67
29/1/18 18:31 70	3/2/18 13:01 70	9/2/18 7:31 70	14/2/18 14:01 70	23/2/18 8:31 71	27/1/18 21:56 67
30/1/18 7:01 68	3/2/18 13:31 70	9/2/18 8:01 70	14/2/18 14:31 70	23/2/18 9:01 71	27/1/18 22:01 67
30/1/18 7:31 70	3/2/18 14:01 69	9/2/18 8:31 69	14/2/18 15:01 70	23/2/18 9:31 71	27/1/18 22:06 67
30/1/18 8:01 69	3/2/18 14:31 70	9/2/18 9:01 69	14/2/18 15:31 70	23/2/18 10:01 71	27/1/18 22:11 66
30/1/18 8:31 69	3/2/18 15:01 69	9/2/18 9:31 70	14/2/18 16:01 70	23/2/18 10:31 70	27/1/18 22:16 67
30/1/18 9:01 70	3/2/18 15:31 69	9/2/18 10:01 70	14/2/18 16:31 70	23/2/18 11:01 71	27/1/18 22:21 67
30/1/18 9:31 69	3/2/18 16:01 70	9/2/18 10:31 70	14/2/18 17:01 70	23/2/18 11:31 70	27/1/18 22:26 67
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30/1/18 12:31 69	5/2/18 7:01 69	9/2/18 13:31 70	15/2/18 8:01 70	23/2/18 14:31 71	27/1/18 22:56 67
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30/1/18 14:01 70	5/2/18 8:31 68	9/2/18 15:01 69	15/2/18 9:31 70	23/2/18 16:01 71	28/1/18 7:11 65
30/1/18 14:31 70	5/2/18 9:01 68	9/2/18 15:31 68	15/2/18 10:01 70	23/2/18 16:31 71	28/1/18 7:16 64
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30/1/18 15:31 68	5/2/18 10:01 71	9/2/18 16:31 69	15/2/18 11:01 70	23/2/18 17:31 70	28/1/18 7:26 66
30/1/18 16:01 68	5/2/18 10:31 70	9/2/18 17:01 68	15/2/18 11:31 70	23/2/18 18:01 70	28/1/18 7:31 65
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30/1/18 17:31 69	5/2/18 12:01 70	9/2/18 18:31 68	15/2/18 13:01 70	24/2/18 7:31 69	28/1/18 7:46 68
30/1/18 18:01 69	5/2/18 12:31 70	10/2/18 7:01 67	15/2/18 13:31 69	24/2/18 8:01 70	28/1/18 7:51 67
30/1/18 18:31 68	5/2/18 13:01 70	10/2/18 7:31 69	15/2/18 14:01 70	24/2/18 8:31 70	28/1/18 7:56 67
31/1/18 7:01 69	5/2/18 13:31 70	10/2/18 8:01 70	15/2/18 14:31 70	24/2/18 9:01 71	28/1/18 8:01 67
31/1/18 7:31 71	5/2/18 14:01 70	10/2/18 8:31 70	15/2/18 15:01 70	24/2/18 9:31 71	28/1/18 8:06 67
31/1/18 8:01 70	5/2/18 14:31 70	10/2/18 9:01 70	15/2/18 15:31 70	24/2/18 10:01 71	28/1/18 8:11 67
31/1/18 8:31 69	5/2/18 15:01 70	10/2/18 9:31 70	15/2/18 16:01 70	24/2/18 10:31 71	28/1/18 8:16 67
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31/1/18 9:31 70	5/2/18 16:01 70	10/2/18 10:31 70	15/2/18 17:01 70	24/2/18 11:31 70	28/1/18 8:26 67
31/1/18 10:01 71	5/2/18 16:31 70	10/2/18 11:01 70	15/2/18 17:31 70	24/2/18 12:31 70	28/1/18 8:31 68
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31/1/18 11:31 71	5/2/18 18:01 69	10/2/18 12:31 70	20/2/18 7:01 65	24/2/18 13:31 71	28/1/18 8:46 67
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31/1/18 12:31 70	6/2/18 7:01 68	10/2/18 13:31 69	20/2/18 8:01 66	24/2/18 14:31 70	28/1/18 8:56 68
31/1/18 13:01 71	6/2/18 7:31 70	10/2/18 14:01 69	20/2/18 8:31 68	24/2/18 15:01 70	28/1/18 9:01 68
31/1/18 13:31 71	6/2/18 8:01 69	10/2/18 14:31 69	20/2/18 9:01 66	24/2/18 15:31 70	28/1/18 9:06 68
31/1/18 14:01 69	6/2/18 8:31 68	10/2/18 15:01 69	20/2/18 9:31 67	24/2/18 16:01 70	28/1/18 9:11 68
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2/18 2:01 2/18 2:06	55 57	18/2/18 3:06 62 18/2/18 3:11 58	19/2/18 4:11 61 19/2/18 4:16 62	20/2/18 5:16 57 20/2/18 5:21 54	21/2/18 6:21 61 21/2/18 6:26 62	22/2/18 23:26 6 22/2/18 23:31 6
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2/18 2:26	53	18/2/18 3:31 54	19/2/18 4:36 62	20/2/18 5:41 62	21/2/18 6:46 64	22/2/18 23:51
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2/18 2:36 2/18 2:41	62 57	18/2/18 3:41 62 18/2/18 3:46 54	19/2/18 4:46 46 19/2/18 4:51 61	20/2/18 5:51 59 20/2/18 5:56 54	21/2/18 6:56 66 21/2/18 23:01 64	23/2/18 0:01 6 23/2/18 0:06 6
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2/18 4:06	52	18/2/18 5:11 61	19/2/18 6:16 45	20/2/18 23:21 64	22/2/18 0:26 63	23/2/18 1:31
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2/18 4:26	62	18/2/18 5:31 62	19/2/18 6:36 58	20/2/18 23:41 64	22/2/18 0:46 60	23/2/18 1:51
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2/18 4:50	61	18/2/18 6:06 58	19/2/18 23:00 62	21/2/18 0:11 62 21/2/18 0:16 62	22/2/18 1:10 60	23/2/18 2:21 6 23/2/18 2:26 5
2/18 5:06	62	18/2/18 6:11 62	19/2/18 23:16 64	21/2/18 0:21 62	22/2/18 1:26 57	23/2/18 2:31
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2/18 5:21	61	18/2/18 6:26 60	19/2/18 23:20 63	21/2/18 0:31 62 21/2/18 0:36 61	22/2/18 1:30 54	23/2/18 2:46
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2/18 1:01	61	19/2/18 2:06 59	20/2/18 3:11 50	21/2/18 4:16 61	22/2/18 5:21 62	23/2/18 6:26
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2/18 1:21	57	19/2/18 2:26 59	20/2/18 3:31 58	21/2/18 4:36 60	22/2/18 5:41 58	23/2/18 6:46
2/18 1:26	59	19/2/18 2:31 58	20/2/18 3:36 62	21/2/18 4:41 61	22/2/18 5:46 57	23/2/18 6:51 6
2/18 1:31 2/18 1:36	59 61	19/2/18 2:36 59 19/2/18 2:41 59	20/2/18 3:41 54 20/2/18 3:46 48	21/2/18 4:46 61 21/2/18 4:51 61	22/2/18 5:51 58 22/2/18 5:56 55	23/2/18 6:56 6 23/2/18 23:01 6
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2/18 2:11	58					

Real-time Noise	Data	RTN1 (Food and Fr	vironmental H	ygiene Department	Depot)
23/2/18 23:41	66	25/2/18 0:46	63	26/2/18 1:51	53
23/2/18 23:46 23/2/18 23:51	67 66	25/2/18 0:51 25/2/18 0:56	62 63	26/2/18 1:56 26/2/18 2:01	61 53
23/2/18 23:56	66	25/2/18 1:01	62	26/2/18 2:06	61
24/2/18 0:01 24/2/18 0:06	66 66	25/2/18 1:06 25/2/18 1:11	62 63	26/2/18 2:11 26/2/18 2:16	50 51
24/2/18 0:11	66	25/2/18 1:16	62	26/2/18 2:21	61
24/2/18 0:16 24/2/18 0:21	66 66	25/2/18 1:21 25/2/18 1:26	63 62	26/2/18 2:26 26/2/18 2:31	61 54
24/2/18 0:21	66	25/2/18 1:20	62	26/2/18 2:36	60
24/2/18 0:31	67 66	25/2/18 1:36 25/2/18 1:41	61 60	26/2/18 2:41	61 62
24/2/18 0:36 24/2/18 0:41	65	25/2/18 1:46	61	26/2/18 2:46 26/2/18 2:51	61
24/2/18 0:46 24/2/18 0:51	64 65	25/2/18 1:51	60 61	26/2/18 2:56 26/2/18 3:01	60 61
24/2/18 0:56	65	25/2/18 1:56 25/2/18 2:01	62	26/2/18 3:06	62
24/2/18 1:01 24/2/18 1:06	64 64	25/2/18 2:06 25/2/18 2:11	61 60	26/2/18 3:11 26/2/18 3:16	61 61
24/2/18 1:11	63	25/2/18 2:16	60	26/2/18 3:21	61
24/2/18 1:16	63 64	25/2/18 2:21	61 60	26/2/18 3:26	62
24/2/18 1:21 24/2/18 1:26	65	25/2/18 2:26 25/2/18 2:31	60 61	26/2/18 3:31 26/2/18 3:36	61 61
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24/2/18 1:41	62	25/2/18 2:41	60 60	26/2/18 3:51	61
24/2/18 1:46 24/2/18 1:51	63 62	25/2/18 2:51	66 62	26/2/18 3:56	61
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24/2/18 2:01	62	25/2/18 3:06	60 59	26/2/18 4:11	61
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24/2/18 2:16	62	25/2/18 3:21	54	26/2/18 4:26	61
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24/2/18 3:31	62	25/2/18 4:36	62	26/2/18 5:41	55
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24/2/18 4:31	59	25/2/18 5:36	53	26/2/18 6:41	66
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24/2/18 4:46	54	25/2/18 5:51	58	26/2/18 6:56	66
24/2/18 4:51 24/2/18 4:56	54 58	25/2/18 5:56 25/2/18 6:01	57 57	26/2/18 23:01 26/2/18 23:06	66 64
24/2/18 5:01	60	25/2/18 6:06	59	26/2/18 23:11	65
24/2/18 5:06 24/2/18 5:11	56 59	25/2/18 6:11 25/2/18 6:16	59 61	26/2/18 23:16 26/2/18 23:21	65 64
24/2/18 5:16	60	25/2/18 6:21	61	26/2/18 23:26	63
24/2/18 5:21 24/2/18 5:26	55 60	25/2/18 6:26 25/2/18 6:31	61 62	26/2/18 23:31 26/2/18 23:36	64 64
24/2/18 5:31	59	25/2/18 6:36	62	26/2/18 23:41	64
24/2/18 5:36 24/2/18 5:41	59 63	25/2/18 6:41 25/2/18 6:46	61 63	26/2/18 23:46 26/2/18 23:51	65 64
24/2/18 5:46	59	25/2/18 6:51	63	26/2/18 23:56	63
24/2/18 5:51 24/2/18 5:56	58 62	25/2/18 6:56 25/2/18 23:01	63 65		
24/2/18 6:01	61	25/2/18 23:06	63		
24/2/18 6:06 24/2/18 6:11	59 62	25/2/18 23:11 25/2/18 23:16	64 64		
24/2/18 6:16	61	25/2/18 23:21	62		
24/2/18 6:21 24/2/18 6:26	63 63	25/2/18 23:26 25/2/18 23:31	63 62		
24/2/18 6:31	64	25/2/18 23:36	63		
24/2/18 6:36 24/2/18 6:41	65 65	25/2/18 23:41 25/2/18 23:46	63 61		
24/2/18 6:46	65	25/2/18 23:51	63		
24/2/18 6:51 24/2/18 6:56	65 65	25/2/18 23:56 26/2/18 0:01	61 63		
24/2/18 23:01	65	26/2/18 0:06	63		
24/2/18 23:06 24/2/18 23:11	65 65	26/2/18 0:11 26/2/18 0:16	62 62		
24/2/18 23:16	66	26/2/18 0:21	62		
24/2/18 23:21 24/2/18 23:26	66 64	26/2/18 0:26 26/2/18 0:31	59 61		
24/2/18 23:31	66	26/2/18 0:36	59		
24/2/18 23:36 24/2/18 23:41	65 66	26/2/18 0:41 26/2/18 0:46	60 59		
24/2/18 23:46	63	26/2/18 0:51	56		
24/2/18 23:51 24/2/18 23:56	62 64	26/2/18 0:56 26/2/18 1:01	59 58		
25/2/18 0:01	64	26/2/18 1:06	56		
25/2/18 0:06 25/2/18 0:11	65 65	26/2/18 1:11 26/2/18 1:16	58 55		
25/2/18 0:16	65	26/2/18 1:21	52		
25/2/18 0:21 25/2/18 0:26	65 64	26/2/18 1:26 26/2/18 1:31	54 49		
25/2/18 0:31	65 64	26/2/18 1:36	56		
25/2/18 0:36 25/2/18 0:41	64 62	26/2/18 1:41 26/2/18 1:46	62 36		

Real-time Noise Normal Day 07:		RTN2a (Hong Kong 1/2/18 12:31 1/2/18 13:01	g <u>Electric Cent</u> 64 58	rre) 7/2/18 7:01 7/2/18 7:31	60 62	12/2/18 13:31 65 12/2/18 14:01 65		62 26/2/18 14:31 57 63 26/2/18 15:01 53
27/1/18 7:01	60	1/2/18 13:31	65	7/2/18 8:01	64	12/2/18 14:31 65	21/2/18 9:01	64 26/2/18 15:31 54
27/1/18 7:31	63 63	1/2/18 14:01	64 59	7/2/18 8:31	65 66	12/2/18 15:01 67 12/2/18 15:31 64		65 26/2/18 16:01 66 64 26/2/18 16:31 66
27/1/18 8:01 27/1/18 8:31	63	1/2/18 14:31 1/2/18 15:01	59 66	7/2/18 9:01 7/2/18 9:31	60	12/2/18 15:31 64 12/2/18 16:01 65		64 26/2/18 16:31 66 65 26/2/18 17:01 61
27/1/18 9:01	64	1/2/18 15:31	63	7/2/18 10:01	58	12/2/18 16:31 65		64 26/2/18 17:31 63
27/1/18 9:31 27/1/18 10:01	63 62	1/2/18 16:01 1/2/18 16:31	61 62	7/2/18 10:31 7/2/18 11:01	57 56	12/2/18 17:01 65 12/2/18 17:31 63		63 26/2/18 18:01 62 61 26/2/18 18:31 61
27/1/18 10:31	63	1/2/18 17:01	61	7/2/18 11:31	66	12/2/18 18:01 64		61
27/1/18 11:01	63	1/2/18 17:31	65	7/2/18 12:01	65	12/2/18 18:31 63		63 <u>Normal Day 19:00-23:00</u> ,
27/1/18 11:31 27/1/18 12:01	63 62	1/2/18 18:01 1/2/18 18:31	63 63	7/2/18 12:31 7/2/18 13:01	65 65	13/2/18 7:01 60 13/2/18 7:31 61		65 <u>Sunday &amp; Holiday</u> 65 <u>07:00-23:00</u>
27/1/18 12:31	63	2/2/18 7:01	60	7/2/18 13:31	60	13/2/18 8:01 63	21/2/18 14:31	65
27/1/18 13:01 27/1/18 13:31	63 63	2/2/18 7:31 2/2/18 8:01	61 63	7/2/18 14:01 7/2/18 14:31	65 61	13/2/18 8:31 66 13/2/18 9:01 66		65 27/1/18 19:01 61 64 27/1/18 19:06 61
27/1/18 14:01	63	2/2/18 8:31	66	7/2/18 15:01	58	13/2/18 9:01 65		65 27/1/18 19:00 01
27/1/18 14:31	64	2/2/18 9:01	67	7/2/18 15:31	61	13/2/18 10:01 63		65 27/1/18 19:16 51
27/1/18 15:01 27/1/18 15:31	63 63	2/2/18 9:31 2/2/18 10:01	68 68	7/2/18 16:01 7/2/18 16:31	61 59	13/2/18 10:31 67 13/2/18 11:01 66		63 27/1/18 19:21 61 62 27/1/18 19:26 62
27/1/18 16:01	62	2/2/18 10:31	70	7/2/18 17:01	67	13/2/18 11:31 63		62 27/1/18 19:31 53
27/1/18 16:31	62	2/2/18 11:01	68	7/2/18 17:31	66	13/2/18 12:01 63		62 27/1/18 19:36 61
27/1/18 17:01 27/1/18 17:31	62 62	2/2/18 11:31 2/2/18 12:01	66 64	7/2/18 18:01 7/2/18 18:31	64 63	13/2/18 12:31 64 13/2/18 13:01 65		60 27/1/18 19:41 62 61 27/1/18 19:46 55
27/1/18 18:01	63	2/2/18 12:31	65	8/2/18 7:01	60	13/2/18 13:31 66	22/2/18 8:01	64 27/1/18 19:51 54
27/1/18 18:31	63 61	2/2/18 13:01	67 66	8/2/18 7:31	62 66	13/2/18 14:01 66 13/2/18 14:31 66		65 27/1/18 19:56 61 66 27/1/18 20:01 61
29/1/18 7:01 29/1/18 7:31	62	2/2/18 13:31 2/2/18 14:01	63	8/2/18 8:01 8/2/18 8:31	57	13/2/18 14:31 66 13/2/18 15:01 66		66 27/1/18 20:01 61 66 27/1/18 20:06 60
29/1/18 8:01	64	2/2/18 14:31	62	8/2/18 9:01	59	13/2/18 15:31 65	22/2/18 10:01	66 27/1/18 20:11 44
29/1/18 8:31 29/1/18 9:01	67 62	2/2/18 15:01 2/2/18 15:31	67 65	8/2/18 9:31 8/2/18 10:01	66 64	13/2/18 16:01 64 13/2/18 16:31 65		66 27/1/18 20:16 55 64 27/1/18 20:21 56
29/1/18 9:31	64	2/2/18 16:01	66	8/2/18 10:31	56	13/2/18 17:01 64		64 27/1/18 20:26 62
29/1/18 10:01	63	2/2/18 16:31	65	8/2/18 11:01	52	13/2/18 17:31 64		61 27/1/18 20:31 51 27/1/18 20:32 61
29/1/18 10:31 29/1/18 11:01	66 66	2/2/18 17:01 2/2/18 17:31	65 63	8/2/18 11:31 8/2/18 12:01	66 63	13/2/18 18:01 63 13/2/18 18:31 62		62 27/1/18 20:36 61 64 27/1/18 20:41 61
29/1/18 11:31	62	2/2/18 18:01	63	8/2/18 12:31	63	14/2/18 7:01 59	22/2/18 13:31	66 27/1/18 20:46 60
29/1/18 12:01 29/1/18 12:31	63 63	2/2/18 18:31 3/2/18 7:01	63 59	8/2/18 13:01 8/2/18 13:31	67 61	14/2/18 7:31 61 14/2/18 8:01 64		65 27/1/18 20:51 61 51 27/1/18 20:56 61
29/1/18 13:01	67	3/2/18 7:31	61	8/2/18 14:01	57	14/2/18 8:31 63		65 27/1/18 21:01 61
29/1/18 13:31	64	3/2/18 8:01	61	8/2/18 14:31	68	14/2/18 9:01 64		65 27/1/18 21:06 61
29/1/18 14:01 29/1/18 14:31	68 66	3/2/18 8:31 3/2/18 9:01	61 62	8/2/18 15:01 8/2/18 15:31	62 66	14/2/18 9:31 63 14/2/18 10:01 63		67 27/1/18 21:11 61 65 27/1/18 21:16 61
29/1/18 15:01	61	3/2/18 9:31	62	8/2/18 16:01	54	14/2/18 10:31 64	22/2/18 17:01	64 27/1/18 21:21 61
29/1/18 15:31 29/1/18 16:01	55 59	3/2/18 10:01 3/2/18 10:31	61 64	8/2/18 16:31 8/2/18 17:01	65 65	14/2/18 11:01 64 14/2/18 11:31 61		64 27/1/18 21:26 61 64 27/1/18 21:31 61
29/1/18 16:31	66	3/2/18 10:31	62	8/2/18 17:31	63	14/2/18 12:01 60		63 27/1/18 21:36 61
29/1/18 17:01	57	3/2/18 11:31	62	8/2/18 18:01	64	14/2/18 12:31 60		59 27/1/18 21:41 61
29/1/18 17:31 29/1/18 18:01	65 63	3/2/18 12:01 3/2/18 12:31	61 62	8/2/18 18:31 9/2/18 7:01	63 60	14/2/18 13:01 61 14/2/18 13:31 61		61 27/1/18 21:46 56 64 27/1/18 21:51 61
29/1/18 18:31	62	3/2/18 13:01	62	9/2/18 7:31	61	14/2/18 14:01 62	23/2/18 8:31	66 27/1/18 21:56 62
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30/1/18 8:01	64	3/2/18 14:31	62	9/2/18 9:01	66	14/2/18 15:31 63		67 27/1/18 22:10 61
30/1/18 8:31	67	3/2/18 15:01	61	9/2/18 9:31	66	14/2/18 16:01 61		60 27/1/18 22:16 61
30/1/18 9:01 30/1/18 9:31	63 63	3/2/18 15:31 3/2/18 16:01	61 61	9/2/18 10:01 9/2/18 10:31	67 67	14/2/18 16:31 61 14/2/18 17:01 61		67 27/1/18 22:21 58 64 27/1/18 22:26 61
30/1/18 10:01	63	3/2/18 16:31	62	9/2/18 11:01	67	14/2/18 17:31 61	23/2/18 12:01	62 27/1/18 22:31 56
30/1/18 10:31 30/1/18 11:01	62 66	3/2/18 17:01 3/2/18 17:31	61 61	9/2/18 11:31 9/2/18 12:01	64 62	14/2/18 18:01 62 14/2/18 18:31 62		63 27/1/18 22:36 52 67 27/1/18 22:41 61
30/1/18 11:31	59	3/2/18 18:01	61	9/2/18 12:31	62	15/2/18 7:01 58		62 27/1/18 22:41 61 62 27/1/18 22:46 60
30/1/18 12:01	64	3/2/18 18:31	61	9/2/18 13:01	65	15/2/18 7:31 59		64 27/1/18 22:51 61
30/1/18 12:31 30/1/18 13:01	63 67	5/2/18 7:01 5/2/18 7:31	49 64	9/2/18 13:31 9/2/18 14:01	66 66	15/2/18 8:01 58 15/2/18 8:31 58		55 27/1/18 22:56 57 66 28/1/18 7:01 60
30/1/18 13:31	62	5/2/18 8:01	65	9/2/18 14:31	66	15/2/18 9:01 59	23/2/18 15:31	66 28/1/18 7:06 61
30/1/18 14:01 30/1/18 14:31	65 66	5/2/18 8:31 5/2/18 9:01	66 66	9/2/18 15:01 9/2/18 15:31	65 65	15/2/18 9:31 59 15/2/18 10:01 60		67 28/1/18 7:11 36 65 28/1/18 7:16 53
30/1/18 15:01	55	5/2/18 9:31	67	9/2/18 16:01	65	15/2/18 10:31 59		65 28/1/18 7:21 61
30/1/18 15:31	66	5/2/18 10:01	54	9/2/18 16:31	66	15/2/18 11:01 59		64 <u>28/1/18</u> 7:26 61
30/1/18 16:01 30/1/18 16:31	67 67	5/2/18 10:31 5/2/18 11:01	45 66	9/2/18 17:01 9/2/18 17:31	63 62	15/2/18 11:31 60 15/2/18 12:01 60		64 28/1/18 7:31 62 63 28/1/18 7:36 61
30/1/18 17:01	66	5/2/18 11:31	64	9/2/18 18:01	62	15/2/18 12:31 60	24/2/18 7:01 5	59 28/1/18 7:41 53
30/1/18 17:31 30/1/18 18:01	65 65	5/2/18 12:01 5/2/18 12:31	62 64	9/2/18 18:31 10/2/18 7:01	61 58	15/2/18 13:01 60 15/2/18 13:31 61		61 28/1/18 7:46 62 62 28/1/18 7:51 49
30/1/18 18:31	63	5/2/18 13:01	56	10/2/18 7:31	60	15/2/18 14:01 61		61 28/1/18 7:56 58
31/1/18 7:01	61	5/2/18 13:31	68	10/2/18 8:01	63	15/2/18 14:31 61		62 <u>28/1/18 8:01</u> 56
31/1/18 7:31 31/1/18 8:01	63 65	5/2/18 14:01 5/2/18 14:31	64 66	10/2/18 8:31 10/2/18 9:01	63 63	15/2/18 15:01 61 15/2/18 15:31 60		62 28/1/18 8:06 59 61 28/1/18 8:11 61
31/1/18 8:31	66	5/2/18 15:01	58	10/2/18 9:31	62	15/2/18 16:01 61	24/2/18 10:31	61 28/1/18 8:16 60
31/1/18 9:01 31/1/18 9:31	66 60	5/2/18 15:31 5/2/18 16:01	66 67	10/2/18 10:01 10/2/18 10:31	63 64	15/2/18 16:31 61 15/2/18 17:01 61		62 28/1/18 8:21 58 61 28/1/18 8:26 61
31/1/18 10:01	61	5/2/18 16:31	67	10/2/18 11:01	63	15/2/18 17:31 61		61 28/1/18 8:31 60
31/1/18 10:31	64	5/2/18 17:01	67	10/2/18 11:31	63	15/2/18 18:01 61		61 <u>28/1/18 8:36</u> 63
31/1/18 11:01 31/1/18 11:31	60 66	5/2/18 17:31 5/2/18 18:01	55 63	10/2/18 12:01 10/2/18 12:31	61 61	15/2/18 18:31 60 20/2/18 7:01 59		63 28/1/18 8:41 63 63 28/1/18 8:46 64
31/1/18 12:01	64	5/2/18 18:31	62	10/2/18 13:01	64	20/2/18 7:31 61	24/2/18 14:01	64 28/1/18 8:51 64
31/1/18 12:31 31/1/18 13:01	65 62	6/2/18 7:01 6/2/18 7:31	60 63	10/2/18 13:31 10/2/18 14:01	62 62	20/2/18 8:01 63 20/2/18 8:31 67		65 28/1/18 8:56 63 63 28/1/18 9:01 65
31/1/18 13:31	64	6/2/18 8:01	67	10/2/18 14:01	63	20/2/18 9:01 67		63 28/1/18 9:01 65 61 28/1/18 9:06 64
31/1/18 14:01	61	6/2/18 8:31	69	10/2/18 15:01	64	20/2/18 9:31 65	24/2/18 16:01	62 28/1/18 9:11 65
31/1/18 14:31 31/1/18 15:01	62 59	6/2/18 9:01 6/2/18 9:31	68 66	10/2/18 15:31 10/2/18 16:01	63 64	20/2/18 10:01 66 20/2/18 10:31 67		62 28/1/18 9:16 66 61 28/1/18 9:21 66
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1/2/18 7:31	63 64	6/2/18 14:01	66 62	12/2/18 8:31	66 66	20/2/18 15:01 63		61 28/1/18 10:06 67 61 28/1/18 10:11 67
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1/2/18 9:01	67	6/2/18 15:31	57	12/2/18 10:01	66	20/2/18 16:31 63	26/2/18 11:01	67 28/1/18 10:21 68
1/2/18 9:31 1/2/18 10:01	58 63	6/2/18 16:01 6/2/18 16:31	67 66	12/2/18 10:31 12/2/18 11:01	55 66	20/2/18 17:01 62 20/2/18 17:31 63		65 28/1/18 10:26 68 62 28/1/18 10:31 69
1/2/18 10:01	65	6/2/18 10:31	65	12/2/18 11:01	65	20/2/18 17:31 63		62 28/1/18 10:31 69 62 28/1/18 10:36 68
1/2/18 11:01	65 61	6/2/18 17:31	64	12/2/18 12:01	64 63	20/2/18 18:31 61	26/2/18 13:01	62 28/1/18 10:41 69
1/2/10 11.01	61	6/2/18 18:01	63	12/2/18 12:31	63	21/2/18 7:01 59		65 28/1/18 10:46 69 59 28/1/18 10:51 67
1/2/18 11:31 1/2/18 12:01	64	6/2/18 18:31	62	12/2/18 13:01	64	21/2/18 7:31 61	20/2/10 14:01	20/1/10 10.31 07

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28/1/18 11:31 6 28/1/18 11:36 6 28/1/18 11:41 6		62 30/1/18 21:31	54	1/2/18 22:36	61	4/2/18 7:41	61	4/2/18 16:46	64
28/1/18 11:36 6 28/1/18 11:41 6		59 30/1/18 21:36 54 20/1/18 21:41	61	1/2/18 22:41	46	4/2/18 7:46	61	4/2/18 16:51	65
		54 30/1/18 21:41 36 30/1/18 21:46	61 61	1/2/18 22:46 1/2/18 22:51	62 57	4/2/18 7:51 4/2/18 7:56	61 57	4/2/18 16:56 4/2/18 17:01	63 66
		62 30/1/18 21:51	61	1/2/18 22:56	62	4/2/18 8:01	57	4/2/18 17:06	65
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18/2/18 1:01	58	19/2/18 2:06 57	20/2/18 3:11 56	21/2/18 4:16 56	22/2/18 5:21 56	23/2/18 6:26 51
18/2/18 1:06	57	19/2/18 2:11 57	20/2/18 3:16 56	21/2/18 4:21 56	22/2/18 5:26 56	23/2/18 6:31 58
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18/2/18 1:36	57	19/2/18 2:41 56	20/2/18 3:46 56	21/2/18 4:51 56	22/2/18 5:56 57	23/2/18 23:01 54
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18/2/18 1:56	57	19/2/18 3:01 56	20/2/18 4:06 56	21/2/18 5:11 56	22/2/18 6:16 48	23/2/18 23:21 52
18/2/18 2:01	57	19/2/18 3:06 56 19/2/18 3:11 56	20/2/18 4:11 56	21/2/18 5:16 56 21/2/18 5:21 57	22/2/18 6:21 58 22/2/18 6:26 57	23/2/18 23:26 56 23/2/18 23:31 60
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Real-time Noise 23/2/18 23:41	51	RTN2a (Hong Kong 25/2/18 0:46	58	26/2/18 1:51
23/2/18 23:46	50	25/2/18 0:51	58	26/2/18 1:56
23/2/18 23:51	40	25/2/18 0:56	58	26/2/18 2:01
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24/2/18 0:00	42	25/2/18 1:16	57	26/2/18 2:21
24/2/18 0:16	49	25/2/18 1:21	57	26/2/18 2:26
24/2/18 0:21	52	25/2/18 1:26	57	26/2/18 2:31
24/2/18 0:26	50	25/2/18 1:31	57	26/2/18 2:36
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24/2/18 0:56	51	25/2/18 2:01	57	26/2/18 3:06
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24/2/18 1:21	48	25/2/18 2:26	57	26/2/18 3:31
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24/2/18 1:56	58	25/2/18 3:01	56	26/2/18 4:06
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27/1/18 7:01	68	1/2/18 13:31	63	7/2/18 8:01	62	12/2/18 14:31 69	21/2/18 9:01 68	26/2/18 15:31 63
27/1/18 7:31	69	1/2/18 14:01	64	7/2/18 8:31	68	12/2/18 15:01 67	21/2/18 9:31 70	26/2/18 16:01 71
27/1/18 8:01 27/1/18 8:31	41 63	1/2/18 14:31 1/2/18 15:01	65 64	7/2/18 9:01 7/2/18 9:31	68 70	12/2/18 15:31 65 12/2/18 16:01 67	21/2/18 10:01 69 21/2/18 10:31 70	26/2/18 16:31 64 26/2/18 17:01 57
27/1/18 9:01	64	1/2/18 15:31	62	7/2/18 10:01	69	12/2/18 16:31 67	21/2/18 11:01 63	26/2/18 17:31 70
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27/1/18 10:31	65	1/2/18 17:01	62	7/2/18 11:31	58	12/2/18 17:51 69	21/2/18 12:31 69	20/2/10 10.31 /0
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27/1/18 11:31 27/1/18 12:01	64 62	1/2/18 18:01 1/2/18 18:31	60 55	7/2/18 12:31 7/2/18 13:01	69 39	13/2/18 7:01 62 13/2/18 7:31 61	21/2/18 13:31 70 21/2/18 14:01 69	Sunday & Holiday 07:00-23:00
27/1/18 12:31	53	2/2/18 7:01	55 70	7/2/18 13:31	69	13/2/18 8:01 59	21/2/18 14:01 69	07.00-23.00
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27/1/18 14:31	63	2/2/18 9:01	69	7/2/18 15:31	67	13/2/18 10:01 69	21/2/18 16:31 69	27/1/18 19:16 65
27/1/18 15:01	58	2/2/18 9:31	64	7/2/18 16:01	68	13/2/18 10:31 68	21/2/18 17:01 69	27/1/18 19:21 65
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23/2/18 23:46 23/2/18 23:51	68 67	25/2/18 0:51 25/2/18 0:56	62 63	26/2/18 1:56 26/2/18 2:01	63 62
23/2/18 23:56	68	25/2/18 0.56	63	26/2/18 2:01	62
24/2/18 0:01	67	25/2/18 1:06	63	26/2/18 2:11	51
24/2/18 0:06	66	25/2/18 1:11	65	26/2/18 2:16	54
24/2/18 0:11 24/2/18 0:16	67 66	25/2/18 1:16 25/2/18 1:21	63 63	26/2/18 2:21 26/2/18 2:26	62 61
24/2/18 0:21	66	25/2/18 1:26	63	26/2/18 2:31	63
24/2/18 0:26	66	25/2/18 1:31	63	26/2/18 2:36	61
24/2/18 0:31	66	25/2/18 1:36	61	26/2/18 2:41	62
24/2/18 0:36 24/2/18 0:41	66 65	25/2/18 1:41 25/2/18 1:46	60 60	26/2/18 2:46 26/2/18 2:51	62
24/2/18 0:41	65 65	25/2/18 1:46	60 61	26/2/18 2:56	62 63
24/2/18 0:51	65	25/2/18 1:56	62	26/2/18 3:01	62
24/2/18 0:56	65	25/2/18 2:01	63	26/2/18 3:06	62
24/2/18 1:01 24/2/18 1:06	64 64	25/2/18 2:06 25/2/18 2:11	62 61	26/2/18 3:11 26/2/18 3:16	62 62
24/2/18 1:11	61	25/2/18 2:16	62	26/2/18 3:21	62
24/2/18 1:16	61	25/2/18 2:21	61	26/2/18 3:26	63
24/2/18 1:21	61	25/2/18 2:26	62	26/2/18 3:31	53
24/2/18 1:26 24/2/18 1:31	65 65	25/2/18 2:31 25/2/18 2:36	60 62	26/2/18 3:36 26/2/18 3:41	61 62
24/2/18 1:36	62	25/2/18 2:41	60	26/2/18 3:46	61
24/2/18 1:41	64	25/2/18 2:46	66	26/2/18 3:51	61
24/2/18 1:46	59	25/2/18 2:51	62	26/2/18 3:56	63
24/2/18 1:51 24/2/18 1:56	62 63	25/2/18 2:56 25/2/18 3:01	64 62	26/2/18 4:01 26/2/18 4:06	62 62
24/2/18 2:01	63	25/2/18 3:06	60	26/2/18 4:11	62
24/2/18 2:06	62	25/2/18 3:11	60	26/2/18 4:16	61
24/2/18 2:11	62	25/2/18 3:16	60	26/2/18 4:21	47
24/2/18 2:16 24/2/18 2:21	59 60	25/2/18 3:21 25/2/18 3:26	59 53	26/2/18 4:26 26/2/18 4:31	63 61
24/2/18 2:21	60 63	25/2/18 3:26	53 61	26/2/18 4:31	62
24/2/18 2:31	63	25/2/18 3:36	55	26/2/18 4:41	62
24/2/18 2:36	59 61	25/2/18 3:41	63	26/2/18 4:46	61
24/2/18 2:41 24/2/18 2:46	61 62	25/2/18 3:46 25/2/18 3:51	63 58	26/2/18 4:51 26/2/18 4:56	58 63
24/2/18 2:51	62	25/2/18 3:56	58	26/2/18 5:01	62
24/2/18 2:56	62	25/2/18 4:01	56	26/2/18 5:06	51
24/2/18 3:01	63	25/2/18 4:06	62	26/2/18 5:11	63
24/2/18 3:06 24/2/18 3:11	60 57	25/2/18 4:11 25/2/18 4:16	62 44	26/2/18 5:16 26/2/18 5:21	57 63
24/2/18 3:16	60	25/2/18 4:21	62	26/2/18 5:26	63
24/2/18 3:21	57	25/2/18 4:26	63	26/2/18 5:31	59
24/2/18 3:26	54	25/2/18 4:31	63	26/2/18 5:36	59
24/2/18 3:31 24/2/18 3:36	61 59	25/2/18 4:36 25/2/18 4:41	62 54	26/2/18 5:41 26/2/18 5:46	58 60
24/2/18 3:41	60	25/2/18 4:46	63	26/2/18 5:51	59
24/2/18 3:46	60	25/2/18 4:51	63	26/2/18 5:56	62
24/2/18 3:51	60	25/2/18 4:56	53	26/2/18 6:01	62
24/2/18 3:56 24/2/18 4:01	61 55	25/2/18 5:01 25/2/18 5:06	56 55	26/2/18 6:06 26/2/18 6:11	62 63
24/2/18 4:06	58	25/2/18 5:11	56	26/2/18 6:16	65
24/2/18 4:11	60	25/2/18 5:16	50	26/2/18 6:21	65
24/2/18 4:16	54	25/2/18 5:21	57	26/2/18 6:26	66
24/2/18 4:21 24/2/18 4:26	51 64	25/2/18 5:26 25/2/18 5:31	60 59	26/2/18 6:31 26/2/18 6:36	65 66
24/2/18 4:31	61	25/2/18 5:36	62	26/2/18 6:41	67
24/2/18 4:36	55	25/2/18 5:41	58	26/2/18 6:46	68
24/2/18 4:41	57	25/2/18 5:46	58	26/2/18 6:51	68
24/2/18 4:46 24/2/18 4:51	58 63	25/2/18 5:51 25/2/18 5:56	56 60	26/2/18 6:56 26/2/18 23:01	68 68
24/2/18 4:56	57	25/2/18 6:01	54	26/2/18 23:06	67
24/2/18 5:01	61	25/2/18 6:06	60	26/2/18 23:11	67
24/2/18 5:06	52	25/2/18 6:11	63	26/2/18 23:16	68
24/2/18 5:11 24/2/18 5:16	60 59	25/2/18 6:16 25/2/18 6:21	63 64	26/2/18 23:21 26/2/18 23:26	67 66
24/2/18 5:21	59	25/2/18 6:26	64	26/2/18 23:31	64
24/2/18 5:26	58	25/2/18 6:31	64	26/2/18 23:36	65
24/2/18 5:31	59	25/2/18 6:36	64	26/2/18 23:41	65
24/2/18 5:36 24/2/18 5:41	61 62	25/2/18 6:41 25/2/18 6:46	63 65	26/2/18 23:46 26/2/18 23:51	66 66
24/2/18 5:46	61	25/2/18 6:51	66	26/2/18 23:56	66
24/2/18 5:51	60	25/2/18 6:56	67		
24/2/18 5:56 24/2/18 6:01	62 60	25/2/18 23:01 25/2/18 23:06	67 66		
24/2/18 6:01	61	25/2/18 23:06	66		
24/2/18 6:11	62	25/2/18 23:16	66		
24/2/18 6:16	62	25/2/18 23:21	65 65		
24/2/18 6:21 24/2/18 6:26	63 63	25/2/18 23:26 25/2/18 23:31	65 65		
24/2/18 6:26 24/2/18 6:31	63 64	25/2/18 23:31	65 65		
24/2/18 6:36	65	25/2/18 23:41	66		
24/2/18 6:41	66	25/2/18 23:46	64		
24/2/18 6:46	66 66	25/2/18 23:51 25/2/18 23:56	63 64		
24/2/18 6:51 24/2/18 6:56	66 67	26/2/18 23:56	64 64		
24/2/18 23:01	67	26/2/18 0:06	63		
24/2/18 23:06	66	26/2/18 0:11	64		
24/2/18 23:11	66 66	26/2/18 0:16	63 64		
24/2/18 23:16 24/2/18 23:21	66 66	26/2/18 0:21 26/2/18 0:26	64 63		
24/2/18 23:26	66	26/2/18 0:31	63		
24/2/18 23:31	67	26/2/18 0:36	62		
24/2/18 23:36	68	26/2/18 0:41	60		
24/2/18 23:41 24/2/18 23:46	67 66	26/2/18 0:46 26/2/18 0:51	62 59		
24/2/18 23:46	65	26/2/18 0:51	59 58		
24/2/18 23:56	65	26/2/18 1:01	58		
25/2/18 0:01	64	26/2/18 1:06	59		
25/2/18 0:06	64 63	26/2/18 1:11	56 51		
25/2/18 0:11 25/2/18 0:16	63 63	26/2/18 1:16 26/2/18 1:21	51 56		
25/2/18 0:16	66 66	26/2/18 1:21	56 42		
25/2/18 0:26	64	26/2/18 1:31	46		
	64 65 65	26/2/18 1:31 26/2/18 1:36 26/2/18 1:41	46 54 51		

teal-time Noise lormal Day 07:0	00-19:00	RTN4 (Causeway 1/2/18 12:31 1/2/18 13:01	62 65	7/2/18 7:01 7/2/18 7:31	60 62	12/2/18 13:31 12/2/18 14:01	65 63	21/2/18 8:01 21/2/18 8:31	62 64	26/2/18 14:31 65 26/2/18 15:01 64
7/1/18 7:01 7/1/18 7:31	61 61	1/2/18 13:31 1/2/18 14:01	64 63	7/2/18 8:01 7/2/18 8:31	62 62	12/2/18 14:31 12/2/18 15:01	62 60	21/2/18 9:01 21/2/18 9:31	63 63	26/2/18 15:31 64 26/2/18 16:01 65
7/1/18 8:01	63	1/2/18 14:01	63	7/2/18 9:01	63	12/2/18 15:31	60	21/2/18 9.31	62	26/2/18 16:31 64
7/1/18 8:31	64	1/2/18 15:01	64	7/2/18 9:31	63	12/2/18 16:01	62	21/2/18 10:31	64	26/2/18 17:01 64
7/1/18 9:01 7/1/18 9:31	64 64	1/2/18 15:31 1/2/18 16:01	66 65	7/2/18 10:01 7/2/18 10:31	64 63	12/2/18 16:31 12/2/18 17:01	62 62	21/2/18 11:01 21/2/18 11:31	63 63	26/2/18 17:31 63 26/2/18 18:01 63
7/1/18 10:01	64	1/2/18 16:31	63	7/2/18 11:01	63	12/2/18 17:31	62	21/2/18 12:01	62	26/2/18 18:31 63
7/1/18 10:31 7/1/18 11:01	63 63	1/2/18 17:01 1/2/18 17:31	63 62	7/2/18 11:31 7/2/18 12:01	62 60	12/2/18 18:01 12/2/18 18:31	60 59	21/2/18 12:31 21/2/18 13:01	61 63	Normal Day 19:00-2
7/1/18 11:31	64	1/2/18 18:01	61	7/2/18 12:31	62	13/2/18 7:01	61	21/2/18 13:31	63	Sunday & Holiday
7/1/18 12:01 7/1/18 12:31	62 62	1/2/18 18:31 2/2/18 7:01	62 60	7/2/18 13:01 7/2/18 13:31	62 65	13/2/18 7:31 13/2/18 8:01	62 63	21/2/18 14:01 21/2/18 14:31	63 63	<u>07:00-23:00</u>
7/1/18 13:01	65	2/2/18 7:31	63	7/2/18 14:01	63	13/2/18 8:31	62	21/2/18 15:01	63	27/1/18 19:01 59
7/1/18 13:31 7/1/18 14:01	65 64	2/2/18 8:01 2/2/18 8:31	62 62	7/2/18 14:31 7/2/18 15:01	62 62	13/2/18 9:01 13/2/18 9:31	62 63	21/2/18 15:31 21/2/18 16:01	63 62	27/1/18 19:06 60
7/1/18 14:31	64	2/2/18 9:01	64	7/2/18 15:31	62	13/2/18 10:01	62	21/2/18 16:31	62	27/1/18 19:16 60
7/1/18 15:01	62	2/2/18 9:31	64	7/2/18 16:01	62	13/2/18 10:31	62	21/2/18 17:01	62	27/1/18 19:21 60
7/1/18 15:31 7/1/18 16:01	64 66	2/2/18 10:01 2/2/18 10:31	63 64	7/2/18 16:31 7/2/18 17:01	62 62	13/2/18 11:01 13/2/18 11:31	62 60	21/2/18 17:31 21/2/18 18:01	62 61	27/1/18 19:26 60 27/1/18 19:31 60
7/1/18 16:31	65	2/2/18 11:01	64	7/2/18 17:31	61	13/2/18 12:01	61	21/2/18 18:31	60	27/1/18 19:36 61
7/1/18 17:01 7/1/18 17:31	62 63	2/2/18 11:31 2/2/18 12:01	63 61	7/2/18 18:01 7/2/18 18:31	61 60	13/2/18 12:31 13/2/18 13:01	60 62	22/2/18 7:01 22/2/18 7:31	60 62	27/1/18 19:41 62 27/1/18 19:46 62
7/1/18 18:01	61	2/2/18 12:31	61	8/2/18 7:01	61	13/2/18 13:31	63	22/2/18 8:01	62	27/1/18 19:51 61
7/1/18 18:31 9/1/18 7:01	61 61	2/2/18 13:01 2/2/18 13:31	64 65	8/2/18 7:31 8/2/18 8:01	63 63	13/2/18 14:01 13/2/18 14:31	68 64	22/2/18 8:31 22/2/18 9:01	63 63	27/1/18 19:56 6 <sup>2</sup> 27/1/18 20:01 6 <sup>2</sup>
9/1/18 7:31	64	2/2/18 14:01	66	8/2/18 8:31	61	13/2/18 15:01	61	22/2/18 9:31	63	27/1/18 20:06 6
9/1/18 8:01	63	2/2/18 14:31	65	8/2/18 9:01	61	13/2/18 15:31	61	22/2/18 10:01	63	27/1/18 20:11 6
9/1/18 8:31 9/1/18 9:01	64 63	2/2/18 15:01 2/2/18 15:31	62 62	8/2/18 9:31 8/2/18 10:01	64 62	13/2/18 16:01 13/2/18 16:31	62 63	22/2/18 10:31 22/2/18 11:01	63 63	27/1/18 20:16 6' 27/1/18 20:21 6'
9/1/18 9:31	64	2/2/18 16:01	62	8/2/18 10:31	63	13/2/18 17:01	63	22/2/18 11:31	62	27/1/18 20:26 61
9/1/18 10:01 9/1/18 10:31	50 65	2/2/18 16:31 2/2/18 17:01	63 62	8/2/18 11:01 8/2/18 11:31	63 62	13/2/18 17:31 13/2/18 18:01	63 63	22/2/18 12:01 22/2/18 12:31	61 61	27/1/18 20:31 6 <sup>2</sup> 27/1/18 20:36 6 <sup>2</sup>
9/1/18 11:01	66	2/2/18 17:31	61	8/2/18 12:01	61	13/2/18 18:31	61	22/2/18 13:01	62	27/1/18 20:41 60
9/1/18 11:31 9/1/18 12:01	64 63	2/2/18 18:01 2/2/18 18:31	60 59	8/2/18 12:31 8/2/18 13:01	61 62	14/2/18 7:01 14/2/18 7:31	61 63	22/2/18 13:31 22/2/18 14:01	63 63	27/1/18 20:46 63 27/1/18 20:51 67
9/1/18 12:31	64	3/2/18 7:01	62	8/2/18 13:31	65	14/2/18 8:01	64	22/2/18 14:31	65	27/1/18 20:56 61
9/1/18 13:01	66 64	3/2/18 7:31	63	8/2/18 14:01	64 63	14/2/18 8:31	63	22/2/18 15:01	63 62	27/1/18 21:01 6
9/1/18 13:31 9/1/18 14:01	64 63	3/2/18 8:01 3/2/18 8:31	64 64	8/2/18 14:31 8/2/18 15:01	63 63	14/2/18 9:01 14/2/18 9:31	64 63	22/2/18 15:31 22/2/18 16:01	62 63	27/1/18 21:06 6 27/1/18 21:11 62
9/1/18 14:31	64	3/2/18 9:01	64	8/2/18 15:31	62	14/2/18 10:01	64	22/2/18 16:31	63	27/1/18 21:16 61
9/1/18 15:01 9/1/18 15:31	63 63	3/2/18 9:31 3/2/18 10:01	64 64	8/2/18 16:01 8/2/18 16:31	62 61	14/2/18 10:31 14/2/18 11:01	66 64	22/2/18 17:01 22/2/18 17:31	62 62	27/1/18 21:21 6 <sup>2</sup> 27/1/18 21:26 6 <sup>2</sup>
9/1/18 16:01	65	3/2/18 10:31	65	8/2/18 17:01	62	14/2/18 11:31	63	22/2/18 18:01	62	27/1/18 21:31 60
9/1/18 16:31 9/1/18 17:01	65 65	3/2/18 11:01 3/2/18 11:31	64 63	8/2/18 17:31 8/2/18 18:01	60 60	14/2/18 12:01 14/2/18 12:31	62 63	22/2/18 18:31 23/2/18 7:01	62 62	27/1/18 21:36 6' 27/1/18 21:41 6'
9/1/18 17:31	63	3/2/18 12:01	62	8/2/18 18:31	59	14/2/18 13:01	63	23/2/18 7:31	63	27/1/18 21:41 6
9/1/18 18:01	62	3/2/18 12:31	63	9/2/18 7:01	62	14/2/18 13:31	64	23/2/18 8:01	63	27/1/18 21:51 6
9/1/18 18:31 0/1/18 7:01	63 62	3/2/18 13:01 3/2/18 13:31	64 63	9/2/18 7:31 9/2/18 8:01	63 64	14/2/18 14:01 14/2/18 14:31	65 64	23/2/18 8:31 23/2/18 9:01	63 63	27/1/18 21:56 6 <sup>2</sup> 27/1/18 22:01 6 <sup>2</sup>
0/1/18 7:31	62	3/2/18 14:01	63	9/2/18 8:31	64	14/2/18 15:01	64	23/2/18 9:31	66	27/1/18 22:06 61
0/1/18 8:01 0/1/18 8:31	62 63	3/2/18 14:31 3/2/18 15:01	64 63	9/2/18 9:01 9/2/18 9:31	63 64	14/2/18 15:31 14/2/18 16:01	64 64	23/2/18 10:01 23/2/18 10:31	65 64	27/1/18 22:11 60 27/1/18 22:16 67
0/1/18 9:01	63	3/2/18 15:31	63	9/2/18 10:01	65	14/2/18 16:31	64	23/2/18 11:01	64	27/1/18 22:21 6
0/1/18 9:31	62 65	3/2/18 16:01	63 62	9/2/18 10:31	65 67	14/2/18 17:01 14/2/18 17:31	64 62	23/2/18 11:31	62	27/1/18 22:26 6 <sup>-</sup> 27/1/18 22:31 60
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0/1/18 11:01	64	3/2/18 17:31	62	9/2/18 12:01	62	14/2/18 18:31	61	23/2/18 13:01	64	27/1/18 22:41 60
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0/1/18 12:31	62	5/2/18 7:01	60	9/2/18 13:31	63	15/2/18 8:01	62	23/2/18 14:31	65	27/1/18 22:56 61
0/1/18 13:01 0/1/18 13:31	63 63	5/2/18 7:31 5/2/18 8:01	62 63	9/2/18 14:01 9/2/18 14:31	64 64	15/2/18 8:31 15/2/18 9:01	61 61	23/2/18 15:01 23/2/18 15:31	64 63	28/1/18 7:01 58 28/1/18 7:06 63
0/1/18 14:01	62	5/2/18 8:31	63	9/2/18 15:01	66	15/2/18 9:31	63	23/2/18 16:01	64	28/1/18 7:11 59
0/1/18 14:31 0/1/18 15:01	62 62	5/2/18 9:01 5/2/18 9:31	62 63	9/2/18 15:31 9/2/18 16:01	62 63	15/2/18 10:01 15/2/18 10:31	64 63	23/2/18 16:31 23/2/18 17:01	63 62	28/1/18 7:16 59 28/1/18 7:21 59
0/1/18 15:31	61	5/2/18 10:01	65	9/2/18 16:31	62	15/2/18 11:01	63	23/2/18 17:31	62	28/1/18 7:26 60
0/1/18 16:01 0/1/18 16:31	62 64	5/2/18 10:31 5/2/18 11:01	62 54	9/2/18 17:01 9/2/18 17:31	62 62	15/2/18 11:31 15/2/18 12:01	62 62	23/2/18 18:01 23/2/18 18:31	62 62	28/1/18 7:31 59 28/1/18 7:36 59
0/1/18 17:01	64	5/2/18 11:31	65	9/2/18 18:01	61	15/2/18 12:31	62	24/2/18 7:01	60	28/1/18 7:41 59
0/1/18 17:31	62	5/2/18 12:01	62	9/2/18 18:31	61	15/2/18 13:01	62	24/2/18 7:31	61	28/1/18 7:46 62
0/1/18 18:01 0/1/18 18:31	61 60	5/2/18 12:31 5/2/18 13:01	62 64	10/2/18 7:01 10/2/18 7:31	62 62	15/2/18 13:31 15/2/18 14:01	61 62	24/2/18 8:01 24/2/18 8:31	64 64	28/1/18 7:51 6 28/1/18 7:56 60
1/1/18 7:01	60	5/2/18 13:31	65	10/2/18 8:01	63	15/2/18 14:31	62	24/2/18 9:01	64	28/1/18 8:01 61
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1/1/18 8:31	63	5/2/18 15:01	62	10/2/18 9:31	64	15/2/18 16:01	61	24/2/18 10:31	63	28/1/18 8:16 62
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102/18 (0.4)         0.0         112/18 (2.4)         0.1         112/18 (2.4)         0.1         102/18 (2.4)         0.1<							
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16/218         16/218         12/218<							
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16/2/18         16/2/18         16/2/18         12/2							
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$      162/18 13:06  61 \\ 162/18 12:16  60 \\ 172/18 15:16  60 \\ 172/18 15:16  61 \\ 162/18 22:16  58 \\ 172/18 15:26  61 \\ 182/18 12:8  59 \\ 182/18 17:36  61 \\ 182/18 17:36  61 \\ 182/18 17:36  61 \\ 182/18 17:36  61 \\ 182/18 17:36  61 \\ 182/18 17:36  61 \\ 182/18 17:36  61 \\ 182/18 17:36  61 \\ 182/18 17:46  60 \\ 182/18 11:46  60 \\$							
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Real-time Noise Data 19/2/18 14:26 60	RTN4 (Causeway Bay Communit 20/2/18 19:31 62	v Centre) 22/2/18 20:36 60	24/2/18 21:41 60	25/2/18 14:46 62	26/2/18 19:51 62
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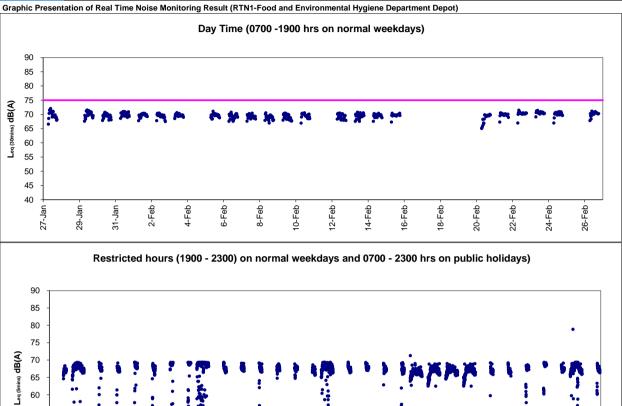
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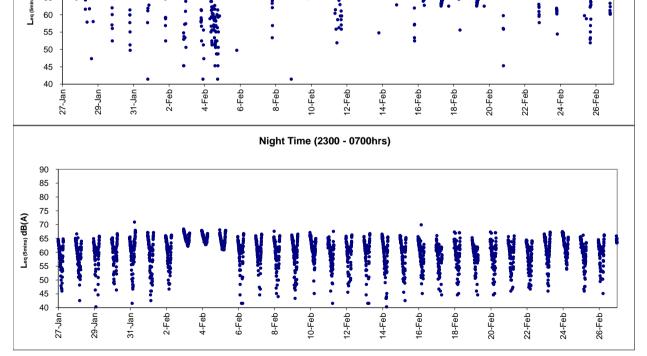
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Real-time Noise	e Data	RTN4 (Causeway B	ay Community	(Centre)
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23/2/18 23:46 23/2/18 23:51	60 60	25/2/18 0:51 25/2/18 0:56	58 58	26/2/18 1:56 26/2/18 2:01
23/2/18 23:56	60	25/2/18 1:01	58	26/2/18 2:06
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24/2/18 0:11	60	25/2/18 1:16	58	26/2/18 2:21
24/2/18 0:16 24/2/18 0:21	59 60	25/2/18 1:21 25/2/18 1:26	58 58	26/2/18 2:26 26/2/18 2:31
24/2/18 0:26	59	25/2/18 1:31	57	26/2/18 2:36
24/2/18 0:31 24/2/18 0:36	60 59	25/2/18 1:36 25/2/18 1:41	57 57	26/2/18 2:41 26/2/18 2:46
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24/2/18 0:46	59	25/2/18 1:51	57	26/2/18 2:56
24/2/18 0:51 24/2/18 0:56	58 59	25/2/18 1:56 25/2/18 2:01	57 58	26/2/18 3:01 26/2/18 3:06
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24/2/18 6:46	59	25/2/18 23:51	58	
24/2/18 6:51 24/2/18 6:56	59 60	25/2/18 23:56 26/2/18 0:01	57 57	
24/2/18 23:01	60 60	26/2/18 0:01	58	
24/2/18 23:06	59	26/2/18 0:11	57	
24/2/18 23:11 24/2/18 23:16	60 60	26/2/18 0:16 26/2/18 0:21	58 58	
24/2/18 23:21	59	26/2/18 0:26	57	
24/2/18 23:26 24/2/18 23:31	59 60	26/2/18 0:31 26/2/18 0:36	57 56	
24/2/18 23:36	59	26/2/18 0:41	57	
24/2/18 23:41 24/2/18 23:46	59 58	26/2/18 0:46 26/2/18 0:51	57 56	
24/2/18 23:51	58	26/2/18 0:56	56	
24/2/18 23:56	58 59	26/2/18 1:01	56 56	
25/2/18 0:01 25/2/18 0:06	58 59	26/2/18 1:06 26/2/18 1:11	56 56	
25/2/18 0:11	58	26/2/18 1:16	56	
25/2/18 0:16 25/2/18 0:21	59 59	26/2/18 1:21 26/2/18 1:26	55 55	
25/2/18 0:26	59	26/2/18 1:31	55	
25/2/18 0:31 25/2/18 0:36	59 58	26/2/18 1:36 26/2/18 1:41	55 55	
25/2/18 0:41	58	26/2/18 1:46	55	

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

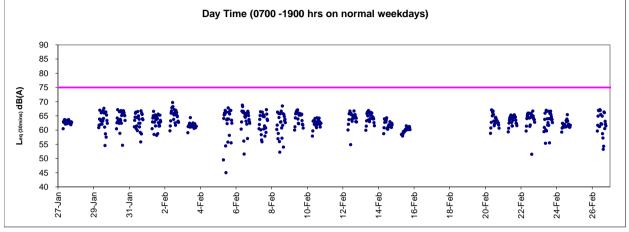


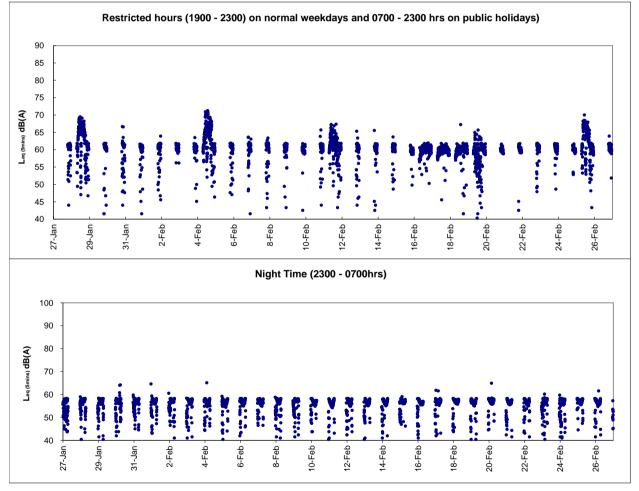




Contract no. HK/2015/01 Wan Chai Development Phase II and Central -Wan Chai Bypass Sampling, Field Measurement and Testing Works (Stage 3)

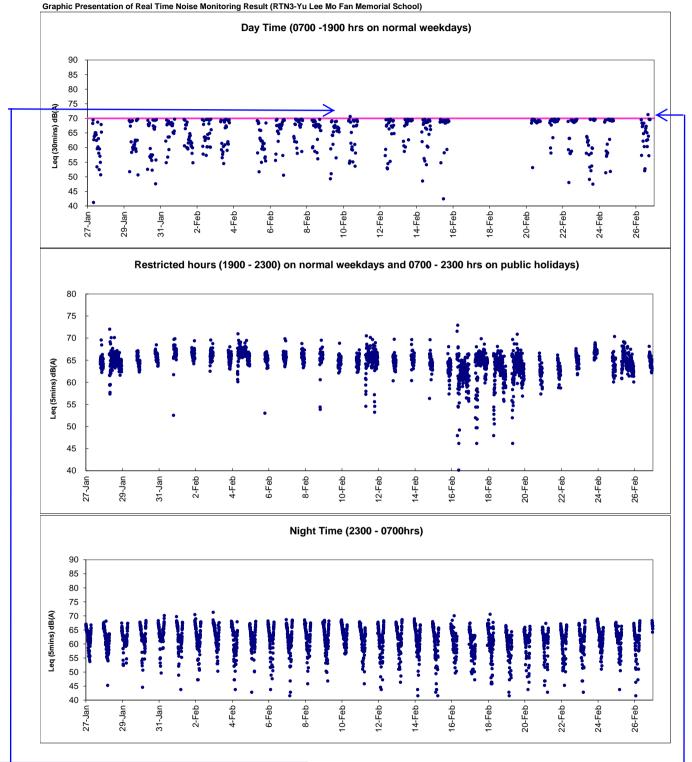








Contract no. HK/2015/01 Wan Chai Development Phase II and Central-Wan Chai Bypass Sampling, Field Measurement and Testing Works (Stage 3)

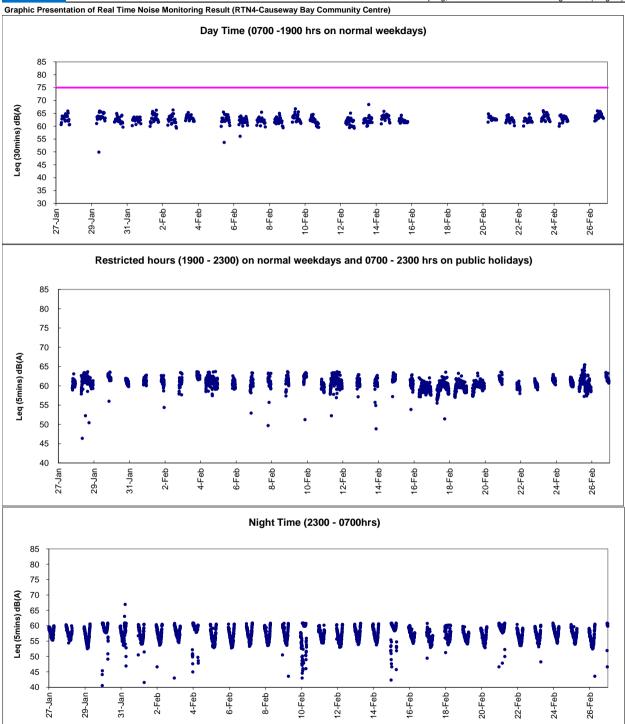


After checking with Contractor, was conducted on 10 February 2018, pavement and asphalting works was conducted during the monitoring period. In view of the continuous construction operation while only discrete exceedance was recorded across the works period, the exceedance is considered as non Project related and potentially contributed by nearby traffic.

After checking with Contractor, concrete breaking works on bridge deck between Pier F6 and F8 was conducted on 26 February 2018 behind temporary noise enclosure. In view of the continuous operation and the discrete exceedance recorded, the exceedance was considered as non-Project related and would be potentially contributed by nearby traffic.



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





Appendix 6.1

Event Action Plans



## **Event/Action Plan for Construction Noise**

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



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



## Event / Action Plan for Construction Air Quality

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



Appendix 6.2

Summary for Notification of Exceedance



Ref. No.	Date	Time	Location	Construction Noise Level, dB(A)	Parameter	Action Level	Limit Level dB(A)	Follow-up action	
X_18N012	2-Feb-18	10:00	M1a-Footbridge at Ex Harbour Road Sports Centre		Leq(30min)	when one documented complaint was received.		Possible reason: Action taken / to be taken: Remarks / Other Obs:	Non WDII-CWB excavation works and hammering immeidately next to the monitoring station was observed as the major noise contribution during monitoring. A repeat measurement was conducted to confirm result and reviewed the trend of previous noise monitoring and Contractor's working procedure. No construction work was conducted by Contract HK/2009/01 around the concerned location during the time of measurement while excavation works and hammering were conducted under non-WDII-CWB contractor next to the monitoring station and observed as the major noise contribution during monitoring. As such, the exceedance was considered as non-Project related to Contract HK/2009/01.



Ref. No.	Date	Time	Location	Construction Noise Level, dB(A)	Parameter	Action Level	Limit Level dB(A)	Follow-up action	
X_18N011	2-Feb-18	10:00	M1a-Footbridge at Ex Harbour Road Sports Centre	81	Leq(30min)	when one documented complaint was received.	75	Possible reason:	Non WDII-CWB excavation works and hammering immeidately next to the monitoring station was observed as the major noise contribution during monitoring.
								Action taken / to be taken: Remarks / Other Obs:	A repeat measurement was conducted to confirm result and reviewed the trend of previous noise monitoring and Contractor's working procedure. Despite trench excavation work was conducted by Contract HK/2009/02 around the concerned location during the time of measurement, no major noise emanation from the works was observed during monitoring. Meanwhile, excavation works and hammering were conducted under non-WDII-CWB contractor next to the monitoring station and observed as the major noise contribution during monitoring. As such, the exceedance was considered as not relate to Project works under HK/2009/02.



Appendix 9.1

Complaint Log



## Environmental Complaints Log

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
110723a	23/07/2011	Ms. Law at Victoria Centre by ICC no. 1- 303887687	North Point	She concerned that Highways Department published a notice in their Management Office about construction works will be conducted from 0700 hours to 2300 hours during July to December 2011 including Saturday, Sunday and public holiday.	<ol> <li>It was referred by AECOM to ET on 28 July 2011</li> <li>RSS confirmed that the notice was prepared by Victoria Centre 'a Management office to their resident and the advice was only given on the extension construction works (for Contract HY/2009/15) to 7am-9pm Monday to Saturday except Public Holidays and Sundays.</li> <li>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.</li> <li>No noise exceedance was recorded at construction noise monitoring station at Victoria Centre on 19 and 25 July 2011 during daytime and evening time period while breaking and excavation works were observed during monitoring.</li> <li>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.</li> </ol>	Closed
110723b	23/07/2011	Ms. Yau at Block 2, Victoria Centre by ICC no. 1- 304013959	North Point	Reclamation work was conducted at Causeway Bay Typhoon Shelter at 7am on 23 July 2011. She complained that the works shall be started later to minimize the noise nuisance to the vicinity of the residents in early morning	<ol> <li>It was referred by AECOM to ET on 8 August 2011</li> <li>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.</li> <li>With reference to the construction noise monitoring at Victoria Centre, no exceedance was recorded on 19 and 25 July 2011 during daytime while breaking and excavation works were undertaken during monitoring</li> <li>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.</li> </ol>	Closed
110727a	27/07/2011	Mr. Law from Victoria Centre Management Office by ICC no. 1-304616162	North Point	It was complained by Mr. Law from Victoria Centre Management Office on 27 July 2011 regarding construction noise generated by the construction operations of	<ol> <li>It was referred by AECOM to ET on 28 July 2011</li> <li>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.</li> <li>No noise exceedance was recorded at construction noise monitoring station at Victoria Centre on 25 July and</li> </ol>	Closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
				Central-Wanchai Bypass at noon rather than in morning at 7am.	<ul> <li>4 August 2011 during daytime and evening time period while breaking and excavation works were observed during monitoring.</li> <li>5) 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.</li> </ul>	
110727b 27/07/201	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	<ol> <li>It was referred by AECOM to ET on 28 July 2011</li> <li>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.</li> <li>As a mitigation measure to minimize the noise nuisance in the vicinity of the residents, rock breaking activities will be started at 8am.</li> </ol>	Closed
	07/08/2011				<ul> <li>4) However, complainant did not satisfy with the response on the noise nuisance from the rock-breaking during morning in front of Victoria Centre and then further complaint via 1823 on 7 August 2011.</li> <li>5) Highways contacted the complainant on 15 August 2011 that the noisy rock breaking operation had been completed.</li> </ul>	
					Remarks: There will be counted as two complaints in this complaint log.	
110730	30/07/2011	Mr. Tsui by ICC no. 1-305074350	Central	Construction noise generated by operations of Central- Interchange which is near the spa room at Four-Season Hotel. Also, the complaint enquired the commencement time of the construction on Saturday.	<ol> <li>It was referred by AECOM to ET on 1 August 2011.</li> <li>RSS confirmed that noisy plants from 2 vibratory hammers have been conducted in alternating manner for piling and drilling works for diaphragm wall construction.</li> <li>With reference to the construction noise monitoring at IFC Western End of Podium, no exceedance was recorded on 4 August 2011 during monitoring while sheet piling works were undertaken during monitoring.</li> <li>In order to reduce the noise impact to nearby noise sensitive receivers, Contractor has been implemented the following noise mitigation measures:         <ul> <li>Erection of acoustic lining at the hoarding next to Four Seasons Hotel;</li> <li>Temporary noise barrier with extended acoustic lining;</li> </ul> </li> </ol>	Closed
					<ul> <li>Reduced in plant such that only have one vibration hammer operating at the west side near Four</li> </ul>	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					Seasons Hotel instead of 2 5) In conclusion, it was related to the construction works under Contract HY/2009/18 and mitigation measure was provided. The complainant was satisfied with the arrangement and no further complaint was received after proposed measures.	
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.	<ol> <li>It was referred by AECOM to ET on 17 August 2011.</li> <li>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.</li> <li>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.</li> <li>Contractors were advised to relocate the loose materials 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.</li> </ol>	
110817	17/08/2011	ICC no. 1- 307657681	North Point	Visual impact generated by light from a large amount of spot-lights on the barge during mid-night nearby City Garden.	<ol> <li>It was referred by AECOM to ET on 23 August 2011</li> <li>RSS confirmed that some non-essential lights were turned on during night-time period which caused the nuisance to the nearby residents. In addition, absence of lighting shields at flood lights results in visual glare to the complaint at night-time.</li> <li>Follow-up action had been taken by contractor that switches off all non-essential lights to minimized nuisance to the nearby residents. The complainant satisfied to the practice and no further complaint was received after that.</li> </ol>	Closed
110826	26/08/2011	Grand Hyatt and a complainant by ICC	Wan Chai	Construction noise and vibration nuisance generated from the works at Convention Avenue and inside the HKCEC1	<ol> <li>Confirmed with the Resident Site Staff that the construction works were referred to the Contractor HK/2009/01.</li> <li>The Excavator mounted breaker at Convention Avenue</li> </ol>	Closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
				reclamation area.	<ul> <li>and Drilling rig at HKCEC1 reclamation area were the dominant construction noise source during this period.</li> <li>3) The drilling rig at HKCEC1 reclamation area and excavator mounted breaker at Convention Avenue were then temporary suspended after received the complaint.</li> <li>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.</li> <li>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.</li> <li>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.</li> </ul>	
110826A	26/08/2011	A complaint letter from Mr. Au of Cayley Property of City Garden	North Point	Harbor front adjacent to their water intake suction which caused 3 times of system breakdown of the sea water pump on 9, 22 and 25 August 2011.	<ol> <li>It was referred by AECOM to ET on 29 August 2011</li> <li>Confirmed with the Resident Site Staff that the construction works were referred to the Contractors HY/2009/11 and HY/2009/19.</li> <li>The pump is located on the site area of HY/2009/19</li> <li>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.</li> <li>An ad hoc inspection of the effectiveness of garbage defender was conducted with RSS (CWB project 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.</li> <li>Daily cleaning near the water intake was conducted twice a day by contractor HY/2009/19.</li> <li>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 come from sea bed from entering the intake.</li> <li>According to the complaint letter from Cayley Property, the outcomes of the preventive measures were not complying wit their expectation.</li> <li>During on-site inspection, floating refuses observed</li> </ol>	Closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					<ul> <li>occasionally outside the garbage defender. No conclusion could be made for the source of these floating refuses. On the other hand, some of the floating refuses were observed immigrating in the protective zone during investigation</li> <li>a) All daily cleaning actions had been taken by contractor to minimize floating refuse inside the construction site. It was noted that the intake (land side) is open assess to public, so that many activities such as fishing, feeding fish were conducted there 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.</li> <li>B) 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.</li> <li>10) 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</li> </ul>	
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)	<ol> <li>RSS notified ET to carry out investigation on 17 October 2011.</li> <li>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 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.</li> <li>After receiving the complaint, the excavator was then removal off-site for checking and maintenance works on 17 October 2011.</li> <li>Contractor was reminded to enhance regular checking and maintenance to all plants at site.</li> <li>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.</li> </ol>	Closed
111104	04/11/2011	Mr. Liu from	Wan Chai	Complain about a tree near the	1) ET confirmed with the Resident Site Staff that	Closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
		LCSD complained via Contractor Complaint Hotline		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.	<ul> <li>A tree near the site of pipe installation works outside Wan</li> <li>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.</li> <li>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.</li> <li>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.</li> </ul>	
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	<ol> <li>According to the information reported by Contractor, one</li> <li>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 CNP was checked by the police officer.</li> <li>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.</li> <li>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</li> </ol>	Closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					<ul> <li>bentonite pipes at about 6:00a.m to ensure no damages and all the pipe joints should be tightened and in good position.</li> <li>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 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.</li> </ul>	
111212	12/12/2011	The complainant, Mr Tsui from IFCII's management office complained via hotline 1823	Central	A visual impact complaint from hotline 1823 was received by ET on 9 January 2011 (ICC Ref. No.: ICC#1-333037096 dated on 12 December 2011). The complaint, Mr Tsui was reported that visual nuisance caused by lighting in the construction site during night time.	<ol> <li>RSS notified ET on 9 Jan 2012.</li> <li>ET confirmed with the Resident Site Staff that A joint inspection was conducted by Mr Tsui and contractor on that night to see whether there is any improvement.</li> <li>Due to safety reason, igniting enought lights should not be avoided in construction site. However, the light sources were not directed away from pointing to the sensitive receiver and results in visual glare to the complaint.</li> <li>Confirmed with the Resident Site Staff the complainant was satisfied the new arrangement of the lights with contractor after the joint inspection. No further complaint received after that.</li> </ol>	Closed
111220	20/12/2011	The complainant, Ms. Poon complained via hotline 1823 (ICC Ref. No.: ICC#1- 334683841)	North Point	Construction air and noise nuisance generated that many trucks carrying construction materials driving along Watson Road and Oil Street and possibly entering/leaving the construction site near the IEC during 0800 to 1900 hours.	<ol> <li>1) RSS notified ET on 22 Dec 2011.</li> <li>2) ET confirmed with the Resident Site Staff that the complainant cannot identify whether the trucks were working under the CWB project or not.</li> <li>3) The dominant construction air and noise nuisances were emitted by the trucks along Oil Street and Waston Road, however, this is the public road for all vechicles. Reviewing the air quality montioring and noise monitoring results. No exceedance was recorded during this period.</li> <li>4) Confirmed with the Resident Site Staff that they provided a contact no. for any future enquiries regarding</li> </ol>	Closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					CWB project to the complainant and she was satisfied on the arrangement and no further complaint was received after that.	
111230	30/12/2011	Residents of Harbour Heights	North Point	Construction air and noise nuisance generated by construction vehicles were found parked illegally at King Wah Poad and lining up at Oil Street without the engine turning off.	<ol> <li>RSS notified ET on 6 January 2011.</li> <li>ET confirmed with the Resident Site Staff that a number of construction activities are concurrently proceeding in the vicinity of Oil Street, King Wah Street and a private development project in King Wah Street</li> <li>The dominant construction air and noise nuisances were emitted by the trucks along Oil Street and King Wah Road, however, this is the public road for all vechicles. Reviewing the results of air quality montioring station (CMA1b) and noise monitoring (M4b). No exceedance was recorded during this period. Site inspections for HY/2009/19 were conducted on 4 January 2012. The condition of the site access at Oil Street and the public road nearby were found satisfactory. It is noted that HyD also allow and encourage their contractors to maximize the use of marine access, where available, to work sites, so as to minimize burdening nearby public roads. When land trips are unavoidable, they require contractors to tidy up their construction vehicles before leaving works sites. No contractor under CWB project parked their vehicles illegally at King Wah Street, and HyD still reminded them not to commit such offence.</li> <li>According to HyD's staff replied the complaint letter on 10 January 2012, there is a private development project under construction at King Wah Road. To access these works sites, construction vehicles have to use public roads nearby. No further complaint received after HyD's reply.</li> </ol>	Closed
120118	18/01/2012	N/A	North Point	A complaint regarding a tree located in front of Victoria Centre under IECL was covered by one meter mud without any protection. The complainant concerns the health of the tree in such condition.	<ol> <li>1) RSS notified ET on 20 January 2012.</li> <li>2) ET confirmed with the Resident Site Staff that The tree is inside the site area of HY/2009/19 and The Botanical name of the tree is Ficus superba var. japonica and the I.D. of the tree is UT48</li> <li>3) According to the information provided by RSS on 20 Jan 2012, the tree shall be felled that has been approved by DLO on 29 August 2011. Moreover, the tree was felled</li> </ol>	Closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					by contractor on 19 January 2012. 4) No further complaint received after HyD's reply.	
120305	03/03/2012	Resident of Harbour Heights complained via hotline 1823 (ICC Ref. No.: ICC#1- 344632511)	North Point	A complaint regarding excessive noise from construction sites of CWB was observed outside Harbour Heights from Monday to Saturday before 8am. The plants were frequently turned on before 7:30am creating nuisance. The complainant requested a speedy follow-up and reply from relevant department.	<ul> <li>2) ET confirmed with the Resident Site Staff that PME for diaphragm wall construction started to operate at about 7:30am whilst the other PME, including those for land bored piling work, started to operate after 8am.</li> <li>3) After reviewing the results of noise monitoring (M4b), no exceedance was recorded during daytime period and the noise level were below 75dB(A). Site inspection for</li> </ul>	Closed
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.	<ol> <li>ET confirmed with the Resident Site Staff that no piling works were performed during the concerned period.</li> <li>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</li> </ol>	Closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					2012 via 1823. HyD replied that the current we CBTS were drilling, diaphragm wall construction deep excavations. In order to minimize the generated from the above works, the Contract erected temporary noise barriers and provided blankets on plants. RSS would continue to wo the Contractor on the effectiveness of environmental mitigation measures implement site. No further complaint was received aft response.	a and noise r had noise with the d on
120415	15/04/2012	The complainant Ms. Law, resident of Fu Lee Loy Mansion, complained via hotline 1823 (ICC Ref. No.: 1- 351021108)	North Point	A complaint regarding excessive noise generated from a HyD project that is located at the connection point of CWB and IEC affecting nearby residents. Lately during the middle of the night (around 00:00 to 05:00), low frequency noise, which possibly came from the operating power generator and the barges which were parked along the Oil Street work site, were making a nuisance to the complainant and residents nearby. The complainant requested that relevant department should follow-up.	<ol> <li>ET confirmed with the Resident Site Staff that was no operation of power generators for HY/20 and HY/2009/17 (HY/2009/11 had no physica on site) during the concerned period. Although were a few barges mooring at the seafrer HY/2009/19, they were not in operation and her operational noise would be emitted.</li> <li>After reviewing the results of noise monitoring and M5b), no exceedance was recorded during</li> </ol>	09/19 work there at of ce no (M4b day B(A). on 18 ation oound on of 09/17 g the arges e not Id be April vorks unnel ation tions o and so it not RSS o the ental ot to



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



	Date of omplaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
130606 30	0/5/2013	ICC Ref. No.: #1- 430164728	Central – Man Kat Street	1. A number of trees (approximately more than ten) along Man Kat Street were found to be in poor health condition with withered and yellow leaves. The complainant has requested a follow-up by relevant department.	<ol> <li>1) RSS notify ET on 6 June 2013</li> <li>2) ET confirmed with the Resident Site Staff that         <ul> <li>According to the information provided by RSS, 13</li> <li>no. of the trees - Roystonea regia (T1674, T1675, T1676, T1677, T1678, T1679, T1680, T1681, T1683, T1644, T1643, T1641, T1639) at the             concerned location raised by the complainant was             found to be with withered and yellow leaves and 1</li>             no. of tree- Khaya senegalensis (T1712) raised by             the complainant was found to be with withered and yellow leaves and 1</ul></li>             no. of tree- Khaya senegalensis (T1712) raised by             the complainant was found to be in poor health             condition.   <li>No construction works was undertaken by Contract         <ul> <li>HY/2009/18 at the concerned planter area where             the affected trees are located.             It was also observed that an active CEDD             construction works area under a separate contractor             not related to Central Wan Chai Bypass Project was             found to be located within the concerned planter             area.</li> </ul> </li> <li>3) A follow-up joint inspection with RSS and Landscape     specialist was conducted on 10 June2013, it was             considered that the witered and yellow leaves of the             affected             trees             (T1674,T1675,T1676,T1677,T1678,T1679,T1680,T1681,             T1633,T1644,T1643,T1641,T1639) at the concerned             planter area were contributed by natrual life cycle of the             affected trees and inclose proximity to few of the             concerned planter area in close proximity to few of the             concerned planter area in close proximity to few of the             concerned planter area in close proximity to few of the             concerned planter area in close proximity to few of the             concerned planter area in close</li></ol>	Closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
				Nature of Complaint	<ul> <li>Outcome</li> <li>During the follow-up inspection on 10 June 2013, It was observed that construction material and oil drum were placed near the the roots area of other trees within the CEDD works. Despite the above observation, no direct evidence was found on site which indicates the work front have contributed to the poor health condition of the affected tree (T1712) at the time of investigation.</li> <li>4) The relevant contractor have removed the construction material near the root area of the trees retained on site and conduct pruning to remove the withered and yellow leaves retained on tree trunk to minimize impact on the trees appearance. In addition, safety supporting wire was provided for concerned tree (T1712)</li> <li>5) ET recommended the contractor to keep in view the health condition of the concerned tree (T1712) and apply permission for tree felling together with tree compensation plan if considered necessary. Furthermore, the contractor was reminded to implement regular checking of tree health condition and regular removal of withered leaves to maintain the overall tree appearance.</li> </ul>	Status



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
130611	30 May 2013 and 1 June 2013	EPD Ref.:H04/RS/0001 1587-13	Area near Central Pier	1. Noise was emanated from the construction site near the Central Piers at around 0900 hrs on 30 May 2013 and other days and requested follow up action by relevant department.	<ol> <li>RSS notify ET on 11 June 2013</li> <li>ET confirmed with the Resident Site Staff that According the information confirmed by RSS, major noise generating construction activities undertaken at works area near Central Pier during the concerned time include         <ul> <li>Breaking up existing D-wall concrete and excavation at portion 4B and 4C</li> <li>Sheet pilling works at Portion VI (Man Kat Street)</li> </ul> </li> <li>Total 1 no. of Backhoe with breaker, 1 no. of Backhoe with vibratory hammer and 4 no.s of pneumatic breakers were deployed for the above construction activities.</li> <li>Reviewing the noise monitoring data at monitoring stations (M7e- International Finance Centre Eastern End of Podium and M7w- International Finance Centre Western End of Podium), no limit level exceedances were recorded during routine noise monitoring period, the noise emanated from the construction activities under Contract HY/2009/18 was considered to complied with the statutory requirement.</li> <li>In addition, weekly environmental site inspection was conducted on 30 May 2013 at around 10:00. According to the inspection record, no particular observation regarding noise impact was recorded and the mitigation measures including erection of of temporary noise barrier was observed in place.</li> <li>As such, no direct information associated with the noise concerned raised was considered available and no non-conformity was identified.</li> <li>4) ET recommend the contractor to review the need of additional noise mitigation measures to further reduce the noise enmated during construction works for pier side public area.</li> </ol>	Interim report submitted to EPD on 19 June 2013, EPD advised no further comment on 5 Aug 2013and final report for case closing submitted on 6 Aug 2013.



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
131010	03 Oct 2013	ICC Ref: No.1- 467000768	Area between Central Pier and International Finance Centre	Noise and air quality impact was experienced at the area located between IFC and Central Pier during peak hours.	ET confirmed with the Resident Site Staff that 1) The major construction activities at the concerned location conducted over the past three months include; - Formwork, rebar and concreting - Backfilling - Water-proofing - Scaffolding erection 2) Mitgitation measures implemented by the Contractor for the above construction works include - Select quiet plant and work methods; - Check plant and equipment for condition; - For use of powered mechanical equipment during restricted hours: Obtain necessary Construction Noise Permit and strictly comply with their conditions; - Frequently spray water to major haul road and stockpiles to suppress dust generation; and - Cover stockpiles with impervious sheets The construction activities including backfilling, concreting and other assoicated tunnel works were undertaken in the past three months. Having reviewing the monitoring data of the monitoring stations in the vincinity of the concerned location raised by the complainant, namely monitoring station M7e and M7w (Noise Monitoring Station) and MA1e and MA1w (Air Monitoring Station), no action or limit level exceedance was recorded. In addition, mitigations measures including water sparying and erection of noise barrier were observed during weekly site inspection in August and September 2013 and reminders on dust mitigations measures given during weekly site inspection to the contractor were rectified. As such, the construction activities under Contract HY/2009/18 were considered in compliance with the statutory requirement and no cumulative air/ noise quality quality impact was observed in the past three months.	Closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					Elevated noise level at monitoring station M7e (International Finance Centre East Podium) was noted on 24 September 2013. The Contractor is recommended to review the current measures and to implement additional noise mitigation measures to further avoid potential impact to nearby public area during construction works.	
131217	16 Dec 2013	ICC Case Ref.: 1- 484998552	Victoria Park near Hing Fat Street Exit	Sweeping of muddy water into public drains.	ET confirmed with the Resident Site Staff that 1)The major construction activities around the concerned location conducted on 16 Dec 2013 a.m.includes: -Preparation work of rootball for tree transplanting According to the information provided by RSS, the construction activities around the concerned location on 16 Dec 2013 include preparation work of rootball for tree transplanting at Zone 17/18. A further investigation on the complaint was conducted on 19 Dec 2013 during weekly environmental inspection. It was observed that a tree worksarea comprised of mainly loosen soil was located near the concerned location. It was considered that the inclined surface and loosen soil nature of the concerned worksarea could have led to the muddy surface runoff in rain. Deposition of muddy runoff onto nearby public pavement outside worksarea was hence resulted and was subsequently cleaned into nearby public stormwater drain by the Contractor's workers on the complaint date. As such, the case was considered as works related. Sandbags, geotextile and gravels were immediately placed by the Contractor around the gullies at the concerned location to prevent leftover muddy runoff to the public stormwater drain as observed during the weekly inspection on 19 Dec 2013. With respect to the follow-up raised by the complainant on 19 Dec 2013, sandbags, geotextile and gravels placed at gullies located at public area were removed by the Contractor on the same day for maintaining passible public pavement. Follow up measures including sandbag bundle and covering of worksarea with impervious sheeting was immediately placed at the source of impact at the concerned worksarea boundary by the Contractor.	Final investigation report issued on 20 Dec 2013. Case closed on 3 Jan 2014.



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
131224	24 Dec 2013	(ICC Case Ref.: 1-486434321	Victoria Park Children Playground	Odour and large amount of dust particles affecting the public user of the Victoria Park near Children playground	ET confirmed with the Resident Site Staff that 1) The major construction activities around the concerned location conducted on 24 Dec 2013 include: - Breaking up exisiting pillar box for new children playground Portion II - Pressing of sheet pile at bowling green for ELS works Portion XII - Welding work for preparation of sheetpiling work at bowling green Portion VI - Demolition of existing pavilion for bowling green Portion VI - Demolition of existing pavilion for bowling green Portion VI - Felling of tree TA50 at Victoria Park Zone 2) Mitgitation measures implemented by the Contractor for the above construction works include -Water spraying for demolition and other dust generating works. According to the relevant site records, breaking up of exisiting pillar box, pressing of sheet pile, welding work for preparation of sheetpiling demolition of existing pavilion and felling of tree TA50 at Victoria Park Zone 13 were conducted at the concerned location during the time of complaint. Based on information and photo record provided by the RSS, dust mitigation measures including water spraying during dust generating works were implemented by the Contractor at the concerned location on 24 Dec 2013. Follow-up investigation was conducted on 27 Dec 2013 during weekly environmental inspection, dust mitigation measures including water spraying to dusty area and major dust general reminder was given to the contractor to enhance the water spraying to dusty haul road during dry season. Based on on-going site inspection and the follow-up investigation, the site condition was considered generally satisfactory and no non-conformance was identified. Upon further review on the supplementary information provided by the complainant on 31 Dec 2013 and investigation conducted on 2 Jan 2014, the tree felling work of tree TA50 was located nearest to the location of the complainant. According to the location plan provided by the RSS and on site investigation, the tree felling work	Case closed and full investigation report issued on 3 Jan 2014.



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					for TA50 was immediately in front of the location of the complainant. Based on site observation, scrap material of bark and leaves inevitably generated from cutting of branches during tree felling work was considered to be the most probable cause for the observation raised by the complainant at the concerned location on 24 Dec 2013. Furthermore, welding work was observed near the concerned location and was considered to be the potential source for the smell and exhaust fumes as described by the complainant. Notwithstanding the above, welding work was not identified as a work activity with air quality impact under Project EIA report but it would be desirable to implement preventive measures to minimize potential nuisance to nearby public.	
140123	22 Jan 2014	ICC Case Ref.:1- 494077682	Causeway Bay Typhoon Shelter	Construction works have been undertaken during restricted hours until 2300 hrs and occasionally the working hours were extended to around 0100 hrs at nighttime period over the last two to three months at a construction site located within Causeway Bay Typhoon Shelter. For instance, concreting and excavation works were conducted at the concerned location on 22 Jan 2014 during nighttime hours and generated noise impact to the complainant.	ET confirmed with the Resident Site Staff that No construction activity was undertaken at workzone TS1 under HY/2009/15 within Causeway Bay Typhoon Shelter after 1900 hrs on 21 Jan 2014. No construction activity was undertaken at workzone TS3 under HY/2010/08 within Causeway Bay Typhoon Shelter after 1900 hrs on 21 Jan 2014. Concreting for base slab and hanger wall was conducted at workzone TS2 under HY/2009/15 within Causeway Bay Typhoon Shelter from 1900 to 0000 hrs on 21 Jan 2014; Total 8 no.s of concrete lorry mixers, 1 no. of water pump, 2 no.s of concrete pumps (lorry mounted), 1 no .of mobile crane QPME (diesel) and 3 no.s of vibratory pokers were operating from 1900 to 0000hrs on 21 Jan 2014. Concreting for base slab and hanger wall was conducted at workzone TS2 under HY/2009/15 within Causeway Bay Typhoon Shelter from 0000 to 0700 hrs on 22 Jan 2014; Total 1. no of concrete lorry mixer, 1 no. of water pump, 1 no. of concrete lorry mixer, 1 no. of water pump, 1 no. of concrete lorry mixer, 1 no. of water pump, 1 no. of concrete lorry mixer, 1 no. of water pump, 2 no. of concrete lorry mixer, 1 no. of water pump, 2 no. of concrete lorry mixer, 1 no. of water pump, 2 no. of concrete pump (lorry mounted), 1 no. of vibratory poker were operating from 1900 to 0000hrs on 22 Jan 2014	Case closed and full investigation report issued on 4 Feb 2014.



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					<ul> <li>According to the relevant site records, from 1900-0000hrs on 21 Jan 2014, concreting for base slab and hanger wall was conducted at workzone TS2 under HY/2009/15 within Causeway Bay Typhoon Shelter. Total 8 no.s of concrete pumps (lorry mounted), 1 no. of mobile crane QPME (diesel) and 3 no.s of vibratory pokers were operating at the above period.</li> <li>From 0000 to 0700 hrs on 22 Jan 2014, concreting for base slab and hanger wall was conducted at workzone TS2 under HY/2009/15 within Causeway Bay Typhoon Shelter. Total 1. no of concrete lorry mixer, 1 no. of water pump, 1 no. of concrete lorry mixer, 1 no. of water pump, 1 no. of concrete lorry mixer, 1 no. of water pump, 1 no. of concrete pump (lorry mounted), 1 no. of vibratory poker were found operating at the above period.</li> <li>After reviewing relevant photo records and information verified by RSS and the Construction Noise Permit (CNP) no.GW-RS1384-13, it was considered that several conditions of CNP GW-RS1384-13 were not fulfilled by the Contractor in particular for the item(s) below,</li> <li>No acoustic installation was provided for the relevant PME(s) used as stated in CNP conditon 3.d.during the concerned concreting works.</li> <li>From 1900 to 2300 hours on 21 Jan 2014, the PME(s) used on-site did not comply with any given PME grouping requirement(s) as stated in condition 3.a. and condition 3.d. in CNP no.GW-RS1384-13.</li> <li>From 1900 to 2300 hours on 22 Jan 2014, the PME(s) used by the Contractor on-site did not comply with any given PME grouping requirement(s) as stated in condition 3.a. and condition 3.d. in CNP no.GW-RS1384-13.</li> <li>From 1900 to 2300 hours on 21 Jan 2014, the PME(s) used by the Contractor on-site did not comply with any given PME grouping requirement(s) as stated in condition 3.a. and condition 3.d. in CNP no.GW-RS1384-13.</li> <li>From 1900 to 2300 hours on 21 Jan 2014, and from 0000 to 0700 hours on 22 Jan 2014, PME (Concrete Lorry Mixer) was deployed by the Contractor without barge enclosure and was una</li></ul>	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
140127	24 Jan 2014	ICC Case Ref.: 1-494612639	Works area adjacent to the Victoria Park Bowling Green	Noise generated from piling works conducted at the works area adjacent to the Victoria Park Bowling Green have created nuisance to the Bowling Green users.	ET confirmed with the Resident Site Staff that The major construction activities around the concerned location conducted on 23 Jan 2014 include: Pressing of sheetpile Ch.279-285 (RHS) and Ch.317 for ELS works on 23 Jan 2014. Splicing of sheetpile Ch.275-285 (LHS) for ELS works on 23 Jan 2014. Mitigation measures implemented by the Contractor for the above construction works include: Installation of acoustic panels along hoarding line at East Bowling Green; Installation of addition noise barriers on top of hoarding at East Bowling Green; Display of publicity notices along hoarding line; and No noisy work shall be carried out at the areas adjoining East Bowling Green as if there is any Bowling Green competition event to be held (i.e. Saturday afternoon). According to relevant site records, pressing of sheetpile Ch.279-285 (RHS) and Ch.317 for ELS works and splicing of sheetpile Ch.275-285 (LHS) for ELS works were conducted at the concerned location during the time of complaint. Based on the photo records and information verified by RSS, noise mitigation measures	Case closed and full investigation report issued on 6 Feb 2014.
					including installation of acoustic panels along hoarding line at East Bowling Green and installation of addition noise barriers on top of hoarding at East Bowling Green were implemented by the Contractor at the concerned location. Furthermore, no noisy work was conducted by contractor at the areas adjoining	



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					East Bowling Green when there is any Bowling Green competition event to be held.	
					Follow-up investigation was conducted on 29 Jan 2014 during weekly environmental inspection, noise mitigation measures including noise barriers and acoustic panels were confirmed in place and maintained in good condition. According to previous environmental inspections recorded in Jan 2014, no particular observation regarding the noise impact was recorded. As such, no non- conformity was identified.	
140311	27 Feb 2014	EPD Complaint Case (Ref:H04/RS/00 04232-14) received by ET on 11 March 2014	Central IFC Area	Excessive noise (from the operation of compressors, other heavy machinery and concrete breaking) was emanated from the construction site near IFC in daytime on 27 Feb 2014.	ET confirmed with the Resident Site Staff that The major construction activities at the concerned location conducted on 27 Feb 2014 (Daytime) include: Backfilling works between north wall and sheetpiles and for roof slab; Site hoarding removal; Formwork erection and removal works, falsework erection; Concrete breaking works at roof slab and base slab and breaking up of existing tunnel corner; Concreting works for profile barrier inside cut and cover tunnel; and Rebar fixing works and WVB basement remediation works. Mitigation measures implemented by the Contractor for the above construction works include: Use of quiet plants (air compressor with a	Interim report submitted to EPD on 18 March 2014, EPD advised no further comment on 26 March 2014 and final report for case closing issued on 26 March 2014



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					According to relevant site records, major noise emanating construction activities conducted around the concerned location on 27 Feb 2014 include concrete breaking works at roof slab and base slab and breaking up of existing tunnel corner and concreting works.	
					Based on information verified by the RSS, noise mitigation measure including utilization of quiet air compressor with noise emission label of 99 dB(A) was implemented by the Contractor on the 27 February 2014 to minimize the potential noise impact.	
					Having reviewed the monitoring data of the monitoring stations in the vicinity of the construction site near IFC, namely noise monitoring stations M7e and M7w, no limit level exceedances were recorded on 24 Feb 2014 and 4 March 2014 and the major concrete breaking works at the concerned location conducted on 27 February 2014 was continued across the above monitoring period. In addition, no particular observations regarding noise impact were recorded during weekly site inspection conducted on 27 Feb 2014. No non-conformity was identified. As such, the construction activities under Contract HY/2009/18 were considered generally in compliance with the statutory requirement. Nevertheless, in view of the concern regarding noise nuisance raised by public, it is considered desirable for the Contractor to review and strengthen the noise mitigation measures around	
					the concerned location. Follow-up inspection was conducted during weekly environmental inspection on 13 March 2014, additional noise mitigation measure including erection of noise blanket for concrete breaking works were implemented by the Contractor to further minimize the noise nuisance to nearby public	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
140623	11 June 2014	EPD Complaint Case (Ref:H04/RS/00 013590-14) received by ET on 23 June 2014	Foot Bridge to Central Pier 7	Excessive Paint Spray Odour	A public complaint regarding odour concern referred by EPD was received by ET on 23 June 2014. The complainant reported that excessive paint spray odour was detected at the foot-bridge to the Central Pier 7. ET confirmed with the Resident Site Staff that spraying of waterproofing membrane (integritank) from Ch1700 to Ch1705 was conducted at roof slab Bay12 on 11 June 2014 and Screeding concrete placing from Ch1700 to Ch1683 was conducted at roof slab Bay12 on 11 June 2014 and Backfilling and removal of concrete blocks was conducted at roof slab Bay 10-north on 11 June 2014 According to relevant site records, major construction activities conducted around the concerned location on 11 June 2014 include spraying of waterproofing membrane (integritank) from Ch1700 to Ch1705; screeding concrete placing from Ch1700 to Ch1683 and backfilling and removal of concrete blocks. Having reviewed the relevant information verified by RSS, the chemicals applied at the concerned area on 11 June 2014 are waterproof paint and paint adhesives. In view of the concern regarding odour nuisance raised by the public, it is considered desirable for the Contractor to review the application method for waterproof layer nearby public area to minimize the nuisance caused to the surroundings.	Preliminary report issued on 25 June 2014. Interim report submitted to EPD on 30 June 2014.



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					Follow-up inspection was conducted during weekly environmental inspection on 26 June 2014, no further spraying works was conducted by the Contractor at the concerned area and no particular odour was observed at the concerned location.	
20140723	21 July 2014	ICC complaint (ICC Case Ref.: 2-341537112) received by ET on 23 July 2014	Area opposite to Ngan Tao Building	Noise nuisance due to works and machine at opposite project site during nighttime	A public complaint regarding construction noise impact referred by RSS was received by ET on 25 July 2014 (ICC Case Ref.: 2-341537112 dated 21 July 2014). The complainant reported that : At 00:57hrs on 21 July 2014, he could not sleep due to work and machine at the project site opposite to the building (Ngan Tao Building), where he was living, were still going on and in operation. Noise traveled to his flat despite it was some distance away. ET confirmed with the Resident Site Staff that dewatering works was conducted under HY/2009/19 at the works area at Watson Road from around 23:00hrs on 20 July 2014 to 01:00hrs on 21 July 2014. Total 1 no. of generator and 23 nos. of dewatering pumps were in operation. Mobilization of telescopic arm excavator to trailer truck was performed under HY/2009/19 at the works area at Watson Road from around 00:15hrs to 01:00hrs on 21 July 2014. Total 1 no. of telescopic arm excavator and 1 no. of trailer truck were in operation. According to the relevant site records under Contract HY/2009/19, from around 23:00hrs on 20 July 2014 to 01:00hrs on 21 July 2014, dewatering works was conducted under HY/2009/19 at the works area at Watson Road. Total 1 no. of generator and 23 nos. of dewatering pump were in	Final Investigation report (Issue1) issued on 31 July 2014. Final investigation report (Issue 2) based on further follow- up issued on 12 Aug 2014.



Complaint Date of Log No. Complain	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
Log No. Complain	and Received By	Complainant		<ul> <li>operation at the above period.</li> <li>In addition, mobilization of telescopic arm excavator to trailer truck was performed under HY/2009/19 at the works area at Watson Road from around 00:15hrs to 01:00hrs on 21 July 2014. Total 1 no. of telescopic arm excavator and 1 no. of trailer truck were in operation.</li> <li>After reviewing relevant records and information verified by RSS and the Construction Noise Permit (CNP) no. GW-RS0152-14, it was considered that the below condition of CNP no.GW-RS0152-14 was not fulfilled by the Contractor of HY/2009/19.</li> <li>From 00:15hrs to 01:00hrs on 21 July 2014, the PME(s) (1 no. of telescopic arm excavator and 1 no. of trailer truck) operated under the Contractor of HY/2009/19 on-site could not follow any given PME grouping requirement(s) as stated in condition 3.a. and condition 3.d. in no.GW-RS0152-14.</li> <li>Notwithstanding the above, according to the information provided by the RSS, the telescopic arm excavator was mobilized at night time hours with consideration that passage of vehicle with large plant &amp; machinery through cross harbour tunnel shall be conducted after mid-night.</li> <li>the Contractor of HY/2009/19 was advised to review the need to renew relevant CNP for PME grouping with respect to specific site operation Noise Permit would be followed. Furthermore, the Contractor of HY/2009/19 was suggested to review the arrangement for PME mobilization with maintenance need to be conducted within specific period allowed under the relevant CNP(s).</li> </ul>	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
				Noise of sand and gravel movements at area opposite to the Harbour Heights	A public complaint regarding construction noise impact referred by RSS was received by ET on 01 Aug 2014 (ICC Case Ref.: 2-360638977 dated 31 July 2014). The complainant reported that at 01:20hrs on 30 July 2014, the complainant was woken up by the noise of sand and gravel movements at area opposite to the Harbour Heights. ET confirmed with the Resident Site Staff that EVB excavation was undertaken at the works area around Watson Road under HY/2009/19 before 23:00hrs on 29 July 2014. (Total 1 no. of excavator, 1 no. of dump truck, 23 nos. of underground dewatering pump and 3 nos. of generator were in operation). Dewatering works was undertaken at works area around Watson Road under HY/2009/19 from 23:00hrs on 29 July 2104 to 01:00 hrs on 30 July 2014. (Total 23 nos. of underground dewatering pumps and 1 no. of generator were in operation). Mobilization of PMEs was performed at works area around Watson Road under HY/2009/19 from 00:45hrs to 01:30hrs on 30 July 2014. (1 no. of excavation machine and 1 no. of dump truck were in operation). No other construction activity or operation was performed at the area opposite to Harbour Heights from 23:00hrs on 29 July 2014 to 01:00hrs on 30 July 2014 under HY/2009/19.	Final investigation report issued on 12 Aug 2014.
					According to the relevant site records, before 2300hrs on 29 July 2014, EVB excavation at the works area around Watson Road was conducted under HY/2009/19. (Total 1 no. of dump truck, 1 no. of excavator, 3 nos. of generators and 23 nos. of dewatering pumps were in operation at the	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					above period). From around 23:00hrs on 29 July 2014 to 01:00hrs	
					on 30 July 2014, dewatering works at works area around Watson Road was conducted under HY/2009/19. Total 23 nos. of dewatering pumps were operating at the above period.	
					In addition, mobilization of PMEs was performed at works area around Watson Road under HY/2009/19 from 00:45hrs to 01:30hrs on 30 July 2014. Total 1 no. of excavation machine and 1 no. of dump truck were in operation.After reviewing relevant records and information verified by RSS and the Construction Noise Permit (CNP) no.GW- RS0152-14, it was considered the below condition of CNP GW-RS0152-14 was not fulfilled by the Contractor of HY/2009/19. From around 00:45hrs to 01:30hrs on 30 July 2014, the operation of PME(s) (1 no. of excavator and 1 no. of dump truck) under the Contractor of HY/2009/19 on-site could not follow any given PME grouping requirement(s) as stated in condition 3.a. and condition 3.d. in no.GW-RS0152-14.	
					Notwithstanding the above, according to the information provided by the RSS, the excavator and dump truck were mobilized away from the edge of the temporary ELS structure towards the area opposite to the Harbour Heights after 23:00hrs under safety consideration.	
					The Contractor of HY/2009/19 was advised to review the arrangement and location for retaining and securing PME(s)/ plants to minimize the movements of PME or plants after completion of works such that the Construction Noise Permit would be followed.	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
20140929	26 Sep 2014	ICC complaint (ICC Case Ref.: 2- 466911619) received by ET on 29 September 2014	IEC flyover opposite to City Garden	Light originating from the flyover under Central- WanChai Bypass Project was emitted towards City Garden direction and caused light nuisance	A public complaint regarding visual impact referred by RSS was received by ET on 29 September 2014 (ICC Case Ref.: 2-466911619 dated 26 September 2014) The complainant reported that on 26 September 2014 at around 00:50hrs, light originating from the flyover under Central-WanChai Bypass Project was emitted towards City Garden direction and caused light nuisance. ET confirmed with the Resident Site Staff that the light emission on 25 and 26 September 2014 at the concerned area was originated from the temporary lighting provided at the soffit of the permanent noise enclosure at the new Island Eastern Corridor (IEC) Eastbound which was necessary to provide sufficient illumination for the traffic operation on the new IEC Eastbound after the traffic diversion on 28 September 2014. According to the relevant information provided by RSS, the light emission on 25 and 26 September 2014 at the concerned location was originated from the temporary lighting provided at the sofit of the permanent noise enclosure at the new Islannd Eastern Corridor Eastbound. The lighting was necessary to provide sufficient illumination for the traffic operation on the new IEC Eastbound after traffic diversion on 28 September 2014. Nevertheless, in view of the public concern regarding light nuisance raised by the public, it is considered desirable for the Contractor to review the lighting arrangement and implement additional measures to minimize the nuisance caused to the surrounding receivers as far as practicable.	Final Investigation report submitted on 9 October 2014.



Complaint Log No.Date of ComplaintReceived From and Received ByLocation of ComplainantNature of ComplaintOutcome	Status
Follow-up inspection was conducted during weekly environmental inspection on 8 October 2014, additional measures including erection of green net and tarpaulin sheet were provided by the Contractor of HY/2009/19 at the concerned area as interim measure to minimize the nuisance cased to the surroundings. Further to the interim measure implemented by the Contractor of HY/2009/19, the Contractor of HY/2009/19 will replace the concerned temporary lighting with temporary lighting facing V(ctoria Harbour at the other side of the road to minimize the light nuisance to the surroundings. The Contractor of HY/2009/19 was suggested to review the lighting arrangement and implement additional measures to minimize the nuisance caused to the surroundings receivers as far as practicable. Additional measures including erection of green net and tarpaulin sheet were provided by the Contractor of HY/2009/19 at the concerned area as interim measure to minimize the nuisance ased to the surroundings and the Contractor of HY/2009/19 at the contractor of HY/2009/19 at the concerned area as interim measure to minimize the nuisance ased to the surroundings and the Contractor of HY/2009/19 will replace the contractor of HY/2009/19 at the concerned area as interim measure to minimize the nuisance the surroundings and the Contractor of HY/2009/19 will replace the concerned temporary lighting with temporary lighting tacing Victoria Harbour at the other side of the road to minimize the light nuisance to the surroundings.	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
20141006	25,26 Sep 2014	ICC complaint (ICC Case Ref.: 2-469099657) received by ET on 06 October 2014	IEC flyover opposite to City Garden	Light originating from the flyover under Central- WanChai Bypass Project was emitted towards City Garden direction and caused light nuisance	A public complaint regarding visual impact referred by RSS was received by ET on 6 October 2014 (ICC Case Ref.: 2-469099657 dated 26 September 2014). The complainant reported that on 25 September 2014 at around 23:23 hrs, light originating from the flyover under Central-Wan Chai Bypass Project was emitted towards City Garden direction and caused light nuisance. ET confirmed with the Resident Site Staff that the light emission on 25 and 26 September 2014 at the concerned area was originated from the temporary lighting provided at the soffit of the permanent noise enclosure at the new Island Eastern Corridor (IEC) Eastbound which was necessary to provide sufficient illumination for the traffic operation on the new IEC Eastbound after the traffic diversion on 25 and 26 September 2014. According to the relevant information provided by RSS, the light emission on 25 and 26 September 2014 at the concerned location was originated from the temporary lighting provided at the sofit of the permanent noise enclosure at the new Islannd Eastern Corridor Eastbound. The lighting was necessary to provide sufficient illumination for the traffic diversion on 28 September 2014 at the concerned location was originated from the temporary lighting provided at the sofit of the permanent noise enclosure at the new Islannd Eastern Corridor Eastbound. The lighting was necessary to provide sufficient illumination for the traffic diversion on 28 September 2014. Nevertheless, in view of the public concern regarding light nuisance raised by the public, it is considered desirable for the Contractor to review the lighting arrangement and implement additional measures to minimize the nuisance caused to the surrounding receivers as far as practicable.	Final Investigation report submitted on 9 October 2014.



Complaint Log No.Date of ComplaintReceived From and Received ByLocation of ComplainantNature of ComplaintOutcome	Status
Follow-up inspection was conducted during weekly environmental inspecton on 8 October 2014, additional measures including erection of green net and tarpaulin sheet were provided by the Contractor of HY/2009/19 at the concerned area as interim measure to minimize the nuisance cased to the surroundings. Further to the interim measure implemented by the Contractor of HY/2009/19 will replace the concerned the surroundings.         The Contractor of HY/2009/19 will suggested to review the lighting arrangement and implement additional measures to minimize the nuisance caused to the surroundings.         The Contractor of HY/2009/19 was suggested to review the lighting arrangement and implement additional measures including erection of green net and tarpaulin sheet were provided by the Contractories as far as practicable.         Additional measures including erection of green net and tarpaulin sheet were provided by the Contractor of HY/2009/19 will registre as the other surroundings and the Contractor of HY/2009/19 at the concerned area as interim measure to minimize the nuisance cased to the surrounding sheet were provided by the Contractor of HY/2009/19 at the concerned area as interim measure to minimize the nuisance cased to the surroundings and the Contractor of HY/2009/19 will replace the concerned temporary lighting with temporary lighting with temporary lighting with temporary lighting is the light nuisance to the surroundings.	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
20141010	07 Oct 2014	ICC complaint (ICC Case Ref.: 2-487376144) received by ET on 10 October 2014	IEC flyover opposite to City Garden	Light originating from the flyover under Central- WanChai Bypass Project was emitted towards City Garden direction and caused light nuisance	ET confirmed with the Resident Site Staff that temporary lighting was provided at the concerned area at the soffit of the permanent noise enclosure at the new Island Eastern Corridor (IEC) Eastbound which was necessary to provide sufficient illumination for the traffic operation on the new IEC Eastbound after the traffic diversion on 28 September 2014. Temporary lighting was provided at the concerned area at the soffit of the permanent noise enclosure at the new Island Eastern Corridor (IEC) Eastbound which was necessary to provide sufficient illumination for the traffic operation on the new IEC Eastbound after the traffic diversion on 28 September 2014. In view of the public concern regarding light nuisance raised by the public, it is considered desirable for the Contractor to review the lighting arrangement and implement additional measures to minimize the nuisance caused to the surrounding receivers as far as practicable. During weekly environmental inspection on 8 October 2014, additional measures including erection of green net and tarpaulin sheet were provided by the Contractor of HY/2009/19 at the concerned area as interim measure to minimize the nuisance cased to the surroundings. Further to the interim measure implemented, on 13 October 2014 the Contractor of HY/2009/19 have replaced the concerned temporary lighting with temporary lighting facing Victoria Harbour at the other side of the road to minimize the light nuisance to the surroundings.	Final investigation report submitted on 14 Oct 2014.



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					The Contractor of HY/2009/19 was suggested to review the lighting arrangement and implement additional measures to minimize the nuisance caused to the surroundings receivers as far as practicable. Additional measures including erection of green net and tarpaulin sheet were provided by the Contractor of HY/2009/19 at the concerned area as interim measure and on 13 October 2014 the Contractor of HY/2009/19 have replaced the concerned temporary lighting with temporary lighting facing Victoria Harbour at the other side of the road to minimize the light nuisance to the surroundings.	
141016	14 Oct 2014	EPD complaint EPD Ref.:H05/RS/00 025795-14) received by ET on 16 October 2014	work site next to new Wan Chai Ferry Pier and opposite to Wan Chai Sports Ground.	Construction noise like piling works was heard on 14 October 2014 night until 23:45 hrs. It was suspected that the noise was emanated from the work site next to new Wan Chai Ferry Pier and opposite to Wan Chai Sports Ground.	A public complaint regarding construction noise impact referred by EPD was received by ET on 16 October 2014 (EPD Ref.: EP860/E2/24 Annex IV dated 16 October 2014). The complainant reported that construction noise like piling works was heard on 14 October 2014 night until 23:45 hrs. It was suspected that the noise was emanated from the work site next to new Wan Chai Ferry Pier and opposite to Wan Chai Sports Ground. ET confirmed with the Resident Site Staff that From 19:00hrs to 23:00hrs on 14 October 2014, dredging works was conducted under Contractor of HK/2009/02 at WCR3 Area. Total one grab dredger was in operation. Mitigation measures including provision of steel sheeting screening to the power generation part of the grab dredger was implemented by the Contractor of HK/2009/02.	Updated interim investigation with supplementar y information submitted to EPD on 17 November 2014. EPD advised no further comment on the updated interim report and case closed on 27 Nov 2014.



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					From 23:00 hrs to 05:00 hrs, dredging works was conducted under Contractor of HK/2009/02 at WCR3 Area.	
					Total one grab dredger was in operation. Mitigation measures including provision of steel sheeting screening to the power generation part of the grab dredger was implemented by the Contractor of HK/2009/02.	
					From 23:00 hrs to 06:00hrs, panel replacement works was conducted under Contractor of HK/2009/02 at the Temporary Covered Walkway.	
					Total one scissor platform and two hand held drills (battery) were in operation.	
					From 23:00 hrs to 06:00hrs, trial pit works was conducted under Contractor of HK/2009/02 at Hung Hing Road.Total one crane lorry was in operation.	
					According to the relevant site records under Contract HK/2009/02, from 19:00hrs to 23:00hrs on 14 October 2014, dredging works was conducted under Contractor of HK/2009/02 at WCR3 Area. Total one grab dredger was in operation. Mitigation measures including provision of steel sheeting screening to the power generation part of the grab dredger was implemented by the Contractor of HK/2009/02.	
					From 23:00 hrs to 05:00 hrs, dredging works was conducted under Contractor of HK/2009/02 at WCR3 Area. Total one grab dredger was in operation. Mitigation measures including provision of steel sheeting screening to the power generation part of the grab dredger was implemented by the Contractor of HK/2009/02.	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					<ul> <li>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.</li> <li>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.</li> <li>In view of the above findings, no direct information associated with the noise concern was considered available.</li> </ul>	
20141108	07 Nov 2014	EPD complaint (EPD Ref.: H05/RS/00027 815-14) received by ET on 10 November 2014	Construction site at old Wan Chai Ferry Pier	Malodour of construction plant exhaust from the construction site at old Wan Chai Ferry Pier was scented that affecting the swimmers at Wan Chai Swimming Pool.	A public complaint regarding odour concern referred by EPD was received by ET on 07 November 2014 (EPD Ref.: H05/RS/00027815-14 dated 10 November 2014). The complainant reported that Malodour of construction plant exhaust from the construction site at old Wan Chai Ferry Pier was scented that affecting the swimmers at Wan Chai Swimming Pool. ET confirmed with the Resident Site Staff that ELS works was conducted on 7 November 2014 during daytime at Portion 2 (Area oppsite to WanChai Swimming Pool). Total 3 nos. of excavators, 2 nos. of crawler cranes, 2 nos. of generator, 1 no. of crane lorry and 2 no. of dump trucks were operated. Demolition works was conducted on 7 November 2014 during daytime at West of old Wan Chai Ferry Pier. Total 2 nos. of excavators, 1 no. of derrick barge and 1 no. of tug boat were operated.	Interim investigation report submitted to EPD on 17 November 2014. EPD advised no comment on the interim report and case closed on 1 Dec 2014.



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



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
20141113	12 Nov 2014	EPD complaint (EPD Ref.: H05/RS/00028 253-14) received by ET on 13 November 2014	Construction site at old Wan Chai Ferry Pier	Malodour and dark smoke emission from an excavator located at the construction site at old Wan Chai Ferry Pier was observed that affecting the pedestrians.	A public complaint regarding odour concern referred by EPD was received by ET on 13 November 2014 (EPD Ref.: H05/RS/00028253-14 dated 13 November 2014). The complainant reported thatMalodour and dark smoke emission from an excavator located at the construction site at old Wan Chai Ferry Pier was observed that affecting the pedestrians. (Contract HK/2009/02) ET confirmed with the Resident Site Staff that demolition works was conducted under Contract HK/2009/02 on 12 November 2014 during daytime at old Wan Chai Ferry Pier. Total 2 nos. of excavators, 1 no. of derrick barge and 1 no. tug boat were operated. According to the relevant site records under Contract HK/2009/02, demolition works was conducted on 12 November 2014 during daytime at old Wan Chai Ferry Pier. Total 2 nos. of excavators, 1 no. of derrick barge and 1 no. tug boat were operated. In addition, investigation found that due to malfunctioning of one of the excavators deployed at old Wan Chai Ferry Pier, dark smoke was emitted from the defective excavator for a short period of approximately 30 seconds at around 15:00 hrs on 12 November 2014. The operation of excavator was immediately suspended and followed by repair works. The normal operation of the excavator was resumed after repair. Follow-up inspection was conducted during weekly environmental inspection on 13 November 2014, no dark smoke emission was observed from the PMEs operating on-site and the Contractor of HK/2009/02 was reminded to conduct regular checking on the condition of PMEs to ensure only well maintained PMEs are used on site.	Interim investigation report submitted to EPD on 19 November 2014. EPD advised no comment on the interim report and case closed on 8 Dec 2014.



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
20150127	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 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.	Interim report submitted to EPD on 9 February 2015, EPD advised no comment on 27 February 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
					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.	
					ET confirmed with the Resident Site Staff that the major construction activities under Contract HK/2009/02 around the concerned location conducted on 21 January 2015 include trenching grabbing for D-wall construction at temporary road eastward, shear pin installation at temporary road westward and ground Investigation drilling at temporary road westward	



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					Mitigation measures implemented by the Contractor of HK/2009/02 for the above construction works include regular water spraying at haul road, vehicle wheel-washing at the ingress/egress (Gate No. 4) to the temporary road, hard paving at the works area at temporary road northward and frequent water spraying at the ingress/egress (Gate No. 4) to the temporary road. According to the relevant site records, trenching grabbing for D-wall construction, shear pin installation and ground investigation drilling works were conducted at the concerned location. Dust mitigation measures including water spraying for haul road, vehicle wheel washing and hard paving for a section of works area nearby public road were implemented by the Contractor of HK/2009/02 near the concerned location on 21 January 2015. Follow-up investigation was conducted on 5 February 2015 during weekly environmental inspection, dust mitigation measures including water spraying for dusty haul road and major dust generation works and provision of wheel washing combine with cleaning of public road were confirmed in place and no dust related impact from the construction works was observed. The Air Quality Health Index (AQHI) recorded by EPD across Western District and Eastern District on 21 January 2015 was ranged from 4 to 10+ indicating a severely high concentration of ambient air pollutants. Based on reviewing relevant impact monitoring data, elevated TSP were recorded at monitoring stations across Wan Chai West area to North Point area and a non-Project related exceedance was recorded at nearby monitoring station CMA4a (at SPCA) on 21 January 2015 due to ambient air pollutant.	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					In addition. it was noted that a section of the works area at the concerned location was not provided with site hoarding. Based on further review on relevant records it was noted that the works area at concerned section was either hard paved or have to maintain adequate line of sight due to traffic safety consideration. The Contractor of HK/2009/02 was advised to inform EPD with respect to the site constraint and provide relevant updated meeting records on the arrangement for review. In view of the public concern, the contractor has committed to conduct additional cleaning of the concerned public road section once a week to minimize potential nuisance caused to nearby road users. The contractor was also reminded to enhance the dust mitigation measures	
20150409	07 April 2015 09 April 2015	EPD complaint (Ref.:H05/RS/ 00008074-15 dated 9 April 2015) received by ET on 09 April 2015	Construction site exit near Expo Drive Central; Construction site gate V2 & gate V8	Construction dust was generated from lorries transporting out of the construction via site exit without wheel washing	<ul> <li>implemented to minimize potential nuisance to nearby public.</li> <li>A public complaint regarding construction dust impact referred by EPD was received by ET on 09 April 2015 (EPD Ref.:H05/RS/00008074-15 dated 9 April 2015). The complainant reported that: Construction dust was generated from lorries transporting out of the construction via site exit near Expo Drive Central without wheel washing at the morning of 7 April 2015. Lorries were also found transporting out of the construction site via gates V2 and V8 without wheel washing and causing dust nuisance at about 10:30 hours on 9 April 2015.</li> <li>ET confirmed with the Resident Site Staff that on 7 April 2015, major vehicle movements included oil tanker passing at Gate V2 at Expo Drive East and dump truck passing at Gate V8 at Expo Drive Central under Contract HK/2009/01.</li> </ul>	Interim report submitted to EPD on 17 April 2015, EPD advised no comment on 30 April 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
					2. On 9 April 2015. major vehicle movements include oil tanker, crane lorry and dump truck passing at at Gate V2 at Expo Drive East and dump truck at Gate V8 at Expo Drive Central under Contract HK/2009/01.	
					Mitigation measures adopted by the Contractor of HK/2009/01 at the above locations include water hose was provided for wheel washing at Gate V2 and Gate V8, concrete paving at site exit, dump truck fitted with mechanic cover and cleaned before leaving construction site, regular street washing at Expo Drive Central.	
					According to the relevant site records under Contract HK/2009/01, on 7 April 2015, major vehicle movements included oil tanker passing at Gate V2 at Expo Drive East and dump truck passing at Gate V8 at Expo Drive Central under Contract HK/2009/01 while on 9 April 2015 major vechicle movements include oil tanker, crane lorry and dump truck passing at at Gate V2 at Expo Drive East and dump truck at Gate V8 at Expo Drive Central under Contract HK/2009/01.	
					At the above locations, mitigation measures including water hose for wheel washing at Gate V2 and Gate V8; concrete paving at site exit; dump truck fitted with mechanic cover and cleaned before leaving construction site and regular street washing at Expo Drive Central were generally adopted by the Contractor of HK/2009/01.	
					In view of the public concern on the complaint date, the Contractor of HK/2009/01 was advised to conduct cleaning at the concerned site exit point and the section of public road adjoining the site exit to clear any residue grit and silt desposit to avoid further dust impact.	



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					Follow up inspection was conducted on 16 April 2015 during weekly environmental inspection and mitigation measures including water spraying for dusty haul road and provision of wheel washing were in place. The construction site exit was observed clear from residue silt / grit at the concerned location.	
					In view of the public concern, the contractor was advised to conduct training to the construction site workers to enhance the effectiveness of wheel washing and to ensure proper wheel washing is provided for dump truck and other vehicle prior to leaving the construction site to avoid generating any dust nuisance.	
20150409A	03 April 2015 to 07 April 2015	EPD complaint (Ref.:H05/RS/ 00007861-15 dated 9 April 2015) received by ET on 09 April 2015	Construction site at Convention Avenue near Renaissance Harbour View Hotel	Construction noise was emanated from the construction site at Convention Avenue near Renaissance Habour View Hotel during the period of Easter Holiday	A public complaint regarding construction noise impact referred by EPD was received by ET on 09 April 2015 (EPD Ref.:H05/RS/00007861-15 dated 9 April 2015). The complainant reported that construction noise was emanated from the construction site at Convention Avenue near Renaissance Habour View Hotel during the period of Easter Holiday, including April 3 at about 13:00 hours. ET confirmed with the Resident Site Staff that from 3 April 2015 to 7 April 2015, from 08:00 hours to 18:00 hours, and at about 13:00 hours on 3 April 2015 at area CWB Tunnel Stage 3, backfilling works was conducted under HK/2009/01. Either 1 no. of dump truck and 1. no. of excavator was operated on site at each given time during the concerned period. According to the relevant site records under Contract HK/2009/01, from across 08:00hrs to 18:00hrs during the period from 3 April 2015 to 7 April 2015, backfilling works was conducted under Contract HK/2009/01 at CWB Tunnel Stage 3.	Interim report submitted to EPD on 17 April 2015, EPD advised no comment on 30 April 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
					concerned period and the relevant Construction Noise Permit GW-RS0104-15 for the works was in place and the same construction activity was undertaken at around 13:00hrs on 3 April 2015. No other concurrent construction activity was undertaken at the concerned location during the concerned period under Contract HK/2009/01. The construction activity conducted under Contract HK/2009/01 during the concerned period was in compliance with the statutory requirement. Nevertheless, in view of the concern regarding the noise nuisance raised by the public at the concerned location, it is considered desirable for the Contractor of HK/2009/01 to review the truck unloading procedures of the specific construction task to minimize potential noise emanated during	
20150415	13 April 2015	ICC complaint case (ICC Case Ref.: 2- 885677297 dated 13 April 2015) recevied by ET on 15 April 2015	Construction Site at Causeway Bay Typhoon Bay Shelter	Unnecssary light nuisance from the construction site	<ul> <li>the course for work.</li> <li>A public complaint regarding visual impact received by the RSS was referred to the ET on 15 April 2015 (ICC Case Ref.: 2-885677297 dated 13 April 2015). The complainant reported that "I live in a building next to Gloucester Road in Causeway Bay. Recently, I am suffering from unnecessary light source from the construction site. The banners of the construction companies are always illuminated with very bright lights."</li> <li>ET confirmed with the Resident Site Staff that the concerned lighting for the banners was maintained under Contract HY/2010/08.</li> <li>The concerned lighting for the banners was maintained under Contract HY/2010/08 and the concerned lighting was subsequently switched off at all times since 13 April 2015 to alleviate the lighting nuisance caused to the surroundings.</li> </ul>	Final Investigation report issued on 20 April 2015 and case closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
20150423	21 April 2015	EPD complaint case (EPD Case Ref: :H05/RS/ 00009456-15 dated 23 April 2015) recevied by ET on 23 April 2015	Road work at Fleming Road and Convention Avenue near Renaissance Harbour View Hotel	Construction noise emanated from the road work at Fleming Road and Convention Avenue near Renaissance Harbour View Hotel causing nuisance	A public complaint regarding construction noise impact referred by EPD was received by ET on 23 April 2015 (EPD Ref.:H05/RS/00009456-15 dated 23 April 2015). The complainant reported that construction noise emanated from the road work at Fleming Road and Convention Avenue near Renaissance Harbour View Hotel almost every night recently causing nuisance. ET confirmed with the Resident Site Staff that from 21:00hrs on 20 April 2015 to 06:00hrs on 21 April 2015 and from 21:00hrs on 21 April 2015 to 06:00hrs on 22 April 2015, cooling main connection works was undertaken by the Contractor of Contract HK/2009/01 at the concerned location. Total 1 no. of crane lorry and 1 no. of excavator were in operation. According to the relevant site records under Contract HK/2009/01, from 21:00hrs on 20 April 2015 to 06:00hrs on 21 April 2015 and from 21:00hrs on 21 April 2015 to 06:00hrs on 22 April 2015, cooling main connection works was undertaken by the Contractor of Contract HK/2009/01 at the concerned location. Total 1 no. of crane lorry and 1 no. of excavator were in operation during the concerned period and the relevant Construction Noise Permit GW-RS0269-15 was confirmed in place. The construction activity conducted under Contract HK/2009/01 during the concerned period was in compliance with the statutory requirement. In view of the potential noise nuisance, a notice to affected parties was issued by the Contractor of Contract HK/2009/01 to the nearby residents including Renaissance Harbour View Hotel on 17 April 2015. Besides, construction works undertaken by other parties at the concerned location was observed at the concerned period.	Final Investigation report issued on 18 May 2015 and case closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
20150601	29 May 2015	EPD complaint case (EPD Case Ref: :H05/RS/ 00013254-15 dated 1 June 2015) recevied by ET on 23 April 2015	Construction site gates V2 and V3 near Expo Drive Central	Vehicle with plate no. TG2426 was found leaving the construction site at gate V2 near Expo Drive Central without wheel- washed	A public complaint regarding construction dust impact referred by EPD was received by ET on 01 June 2015 (EPD Ref.:H05/RS/00013254-15 dated 1 June 2015). The complainant reported that vehicle with plate no. TG2426 was found leaving the construction site at gate V2 near Expo Drive Central without wheel-washed at about 10:33hrs on 29 May 2015. The complainant also alleged that water spraying at the gates V2 and V3 near Expo Drive Central was insufficient causing dust nuisance to the public. ET confirmed with the Resident Site Staff that on 29 May 2015, vehicle record indicated that concerned vehicle TG 2426 has entered and exited the construction site via gate V3. Mitigation measures adopted by the Contractor of HK/2009/01 at the above locations include, water hose was provided for wheel washing at Gate V2 and Gate V3. According to the relevant site records under Contract HK/2009/01, vehicle record indicated that concerned vehicle TG 2426 has entered and exited the construction site via gate V3 on 29 May 2015 under Contract HK/2009/01. As confirmed by WDII RSS, the concerned construction site area. Follow up inspection was conducted on 3 June 2015 during weekly environmental inspection and mitigation measures including wheel washing were implemented at construction site area. Follow up inspection was conducted on 3 June 2015 during weekly environmental inspection and mitigation measures including wheel washing were implemented at construction site area. Follow up inspection was conducted on 3 June 2015 during weekly environmental inspection and mitigation measures including wheel washing were implemented at construction site via Gate V8 without wheel washing. The Contractor was immediately advised to review and strengthen the control measures for vehicle exits to ensure wheel washing are provided for exiting vehicles.	Interim report submitted to EPD on 08 June 2015, EPD advised no comment on 22 June 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
					In view of the public concern and the site observation, the Contractor of HK/2009/01 has implemented enhanced site exit control measures using red string to alert drivers to stop their vehicles for cleaning before leaving the construction site and wheel washing facilities including water hose were implemented at Gate V1 and Gate V10 around the concerned location and the vehicle gate V8 was subsequently closed. In addition, removal of spoil arising from wheel washing around site exit location would be conducted by the Contractor of HK/2009/01 as appropriate to alleviate for potential dust impact at construction site exits.	
20150608	04 June 2015	EPD Ref.:H05/RS/0 0013843-15 dated 8 June 2015	A portion of construction site of Contract HK/2012/08 outside Fleet Arcade	Construction noise was generated from the construction site of Contract HK/2012/08 at location outside Fleet Arcade during restricted hours including Sundays and General Holidays.	<ul> <li>A public complaint regarding construction noise impact referred by EPD was received by ET on 8 June 2015 (EPD Ref.:H05/RS/00013843-15 dated 8 June 2015). The complainant reported that construction noise was generated from the construction site of Contract HK/2012/08 at location outside Fleet Arcade during restricted hours including Sundays and General Holidays.</li> <li>ET confirmed with the Resident Site Staff that from 08:00hrs to 18:00hrs on 31 May 2015 (Sunday), construction work including steel welding was conducted under Contract HK/2012/08 at site portion zone A1 opposite to Fleet Arcade. Total one welding machine was in operation.</li> <li>According to the relevant site records under Contract HK/2012/08, from 08:00hrs to 18:00hrs on 31 May 2015 (Sunday), construction work including steel welding was conducted under Contract HK/2012/08 site portion zone A1 opposite to Fleet Arcade. Total one welding machine was in operation and the relevant Construction Noise Permit GW- RS0296-15 was confirmed in place. The construction activity conducted under Contract</li> </ul>	Interim report submitted to EPD on 16 June 2015 and EPD advised no comment on 20 July 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
					<ul> <li>HK/2012/08 during the concerned period was in compliance with the statutory requirement. Ad-hoc inspection was conducted during weekly environmental inspection on 9 June 2015 and it was noted that Construction Noise Permits under Contract HK/2012/08 were posted at site entrance locations for public inspection. In view of the potential noise nuisance, 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. Besides, other construction sites at the concerned location were observed.</li> <li>Furthermore, a meeting was held on 15 June 2015 between the EPD, Contractor of HK/2012/08, WDII RSS team and the Environmental Team on the public concern and the Contractor of HK/2012/08 has committed to review the re-application for the Construction Noise Permits GW-RS0296-15 on usage of PMEs at a portion of site area outside the Fleet Arcade during public holiday including Sundays to minimize for the</li> </ul>	
150622	18 June 2015	EPD Ref.:H05/RS/0 0015054-15 dated 22 June 2015	A mooring location near shore and at location outside Wan Chai Sports Ground	Dark smoke and malodour emission was observed from a hopper barge moored near shore and other construction plants under operation from the reclamation construction site	potential noise nuisance to nearby public. 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 moored near shore and other construction plants under operation from the reclamation construction site with Contract no. HK/2009/02 at location outside Wan Chai Sports Ground caused air pollution. The complainant alleged that the said situation had been observed for a prolonged period.	Interim report submitted to EPD on 29 June 2015 and EPD advised no comment on 20 July 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
					ET confirmed with the Resident Site Staff that reinforced bar fixing and concreting work (on 17 June 2015 only) were conducted at Portion 2 from 15 June 2015 to 19 June 2015. Total 3 nos. of mobile crane were in operation. On 17 June 2015, one no. of concrete pump truck and two nos. of concrete mixer were in operation. Excavation and Lateral Support was conducted at Portions 3 & 4 from 15 June 2015 to 19 June 2015. Total 4 nos. of excavator, 2 nos. of truck and 2 nos. of crawler crane were in operation. In addition, on 15 June 2015, 17 June 2015 and 19 June 2015, 1 no. of derrick barge was moored near Portions 3 & 4 for transportation of the excavated material away from site.	
					According to the relevant site records under Contract HK/2009/02, from 15 June 2015 to 19 June 2015, reinforced bar fixing and concreting work (on 17 June 2015 only) were conducted at Portion 2 and total 3 nos. of mobile crane, one no. of concrete pump truck (on 17 June 2015 only) and two nos. of concrete mixer (on 17 June 2015 only) were in operation; excavation and lateral support was conducted at Portions 3 & 4 and total 4 nos. of excavator, 2 nos. of truck and 2 nos. of crawler crane were in operation. Based on relevant site record, no hopper barge was moored under Contract HK/2009/02 around the concerned location while 1 no. of derrick barge was moored under Contract HK/2009/02 near Portions 3 & 4 for transportation of the excavated material from Portions 3 & 4 away from site on 15 June 2015,17 June 2015 and 19 June 2015 respectively.	
					Follow-up inspection was conducted during weekly environmental inspection on 25 June 2015, no dark smoke and malodour emission was observed from the PMEs operating on-site. A derrick barge was	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					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.	
150714	11 July 2015	ICC Complaint (Ref:#2- 1149562777) referred by RSS was received by ET on 14 July 2015	A portion of site area adjacent to Hing Fat Street Site entrance	Direct discharge of muddy effluent into marine waters	<ul> <li>A public complaint regarding direct discharge of muddy effluent referred by RSS was received by ET on 14 July 2015 (ICC Ref.: #2-1149562777). The complainant reported that:</li> <li>Muddy effluent was directly discharged into nearby marine waters by Chun Wo worker. Further information was received by ET from RSS on 23 July 2015 and the complaint date was clarified to be 11 July 2015 and the concerned vehicle registration number shall be JV 7319.</li> <li>ET confirmed with the Resident Site Staff that no construction works was undertaken by the Contractors HY/2009/19 and adjacent Central WanChai Bypass Project construction site at the concerned location on 11 July 2015.</li> <li>No construction works was undertaken by the Contractor of HY/2009/19 and adjacent Central WanChai Bypass Project construction site at the concerned location on 11 July 2015 and the concerned location on 14 July 2015 and the concerned vehicle (License Plate JV 7319 labelled as Chun Wo) was confirmed not belonging to the Contractor of HY/2009/19.</li> <li>Follow-up inspection was conducted during weekly environmental inspection on 14 July 2015, no direct discharge connection was further observed on site.</li> </ul>	Updated Final investigation report submitted on 27 July 2015.



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					No construction works was undertaken by Central WanChai Bypass Project at the concerned location and no sump pit or works area under Central WanChai Bypass Project associated with potential muddy effluent discharge was identified. In addition, a construction area with excavated pit under WSD Contract 12/WSD/10 was noted at the concerned location behind the alleged vehicle responsible for direct discharge of muddy effluent. Based on the further review on the information received on 23 July 2015, the alleged direct discharge was observed originating from the works area under WSD Contract 12/WSD/10 and not	
					related to the Central Wan Chai Bypass Project construction works.	
150723	20 July 2015	EPD Ref.:H05/RS/0 0018040-15 dated 23 July 2015	Ex-Wanchai Ferry Pier near 720 & & 722 Bus stop	Malodour from marine sediment	<ul> <li>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).</li> <li>The complainant reported that malodour from marine sediment was scented at ex-Wanchai ferry pier near route 720 &amp; 722 bus stop. (Contract HK/2009/02).</li> <li>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.</li> <li>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.</li> </ul>	Interim report submitted to EPD on 30 July 2015. EPD advised no comment on 17 August 2015 on the interim report submitted and case closed.



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					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. 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	
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	<ul> <li>malodour impact to nearby public.</li> <li>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)</li> <li>ET confirmed with the Resident Site Staff that transferring of C&amp;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.</li> <li>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.</li> <li>According to the relevant site records under Contract HK/2009/02, transferring of C&amp;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</li> </ul>	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
					<ul> <li>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&amp;D materials from land to barge by excavator was observed at the concerned location and mitigation measures including provision of tarpaulin sheet between seawall and hopper 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&amp;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.</li> <li>The Contractor was reminded to maintain the handling procedure for C&amp;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.</li> </ul>	
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	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)	Interim report submitted to EPD on 14 September 2015. 2 <sup>nd</sup> interim report submitted to EPD on 17 Dec 2015



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
				transporting C&D material at the site.	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. 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 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. 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. From 2300hrs on 01 September 2015 to 0700hrs on 02 September 2015, no construction works was undertaken by the Contractor of HK/2012/08 at the concerned location. One derrick barge was deployed for unloading of soil on 02 September 2015 during daytime under Contract HK/2012/08 at the concerned location. Based on the relevant site records, from 0800 hrs to	3 <sup>rd</sup> interim report submitted to EPD on 31 Dec 2015
					1800 hrs on 30 August 2015, removal of scaffold	



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



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					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.	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
151117	Not specified	EPD complaint received by ET on 17 Novmeber 2015	Causeway Bay Typhoon Shelter	Improper handling or bentonite and marine sediment generated from construction works and contaminated discharge from water treatment plant into Victoria Habour	A public complaint regarding illegal disposal of construction waste referred by EPD was received by ET on 17 November 2015. The complainant reported that over 10,000 m3 of bentonite after usage for construction of diaphragm wall was	Interim investigation report submitted to EPD on 24 November 2015.
			disposed of at Victoria Habour. The Contractor recently deployed mobile crane to transfer the bentonite from mud pit on to works barge. The bentonite was then mixed with soil and transported to the Public Fill. During the course, seepage of slurry through grab generated drop off to marine waters and the soil mixing generated dust	2 <sup>nd</sup> interim investigation report submitted to EPD on 17 December 2015.		
					<ul> <li>impact to nearby yacht club, typhoon shelter and affect nearby public and boats.</li> <li>Disposal of dredged marine sediment was not carried out in accordance with the Management of Dredged/Excavated Sediment. Instead the marine sediment was covered by sand and soil and transported to the Public Fill.</li> <li>White or greyish effluent was discharged directly into Victoria Habour marine waters from wastewater treatment plant on construction site.</li> </ul>	3 <sup>rd</sup> interim investigation report submitted to EPD on 31 December 2015. Final investigation report submitted on 5 February
					In response to the complaint concern, additional water quality monitoring from end November 2015 to mid January 2016 until the post-diaphragm wall construction activities and all bentonite silos and residue bentonite slurry at TS3 were completely removed had been undertaken by the Environmental Team and additional site inspections	2016.



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					have been conducted by the ET and the	
					investigation findings were included in the interim	
					investigation reports separately submitted to the	
					EPD. In addition, the ET and IEC have conducted	
					checking on the waste disposal records and site	
					construction records with the CWB RSS team to	
					confirm the key construction activities during the	
					concerned period and the quantities of inert C&D	
					material disposed.	
					Specific enhancement on site supervision was	
					undertake by the CWB RSS team to ensure the	
					properly handling of the remaining bentonite slurry	
					in terms of the following:	
					Depth of the bentonite slurry at the primary mixing	
					pit (at south of TS3) was recorded by RSS team	
					daily at regular intervals starting from 22nd	
					December 2015 to record the changes in the level	
					of slurry, particularly before end of works and at the	
					start of works on the next day to confirm no	
					significant change in bentonite slurry level during	
					non-working hours until the complete removal of the	
					mud pit.	
					During the silo dismantling stage, the amount of	
					residue bentonite cleared from the remaining silo	
					were monitored on daily basis to record of the	
					residue bentonite transferred for mixing and final	
					disposal.	



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					The Environmental Team will continue to keep in	
					view on the contractor environmental mitigation	
					measures during the routine inspections, with	
					specific attention at TS3 area on the effectiveness	
					of Contractor's remediation measures and check the	
					implementation of site measures in accordance with	
					the EIA and EM&A Manual recommendations.	
ICC	26 No	ICC complaint	Construction area	Noise nuisance due to	A public complaint regarding noise impact referred	Final
complaint	2015		outside City	windblown slapping of a metal onto adjacent barrier at night time	by RSS was received by ET on 27 November 2015	investigation
case (ICC Ref: 2-			Garden Block 11		(ICC Case Ref.: 2-1593165694 dated 26 November	report to be issued on 01 December
159316569		2015			2015). The complainant reported that noise was	
4)					emanated from the IECL construction site outside	2015.
dated 26					City Garden Block 11 due to the windblown slapping	
November 2015					of a metal sheet onto adjacent barrier causing	
2013					nuisance to nearby residents at night time.	
					ET confirmed with the Resident Site Staff that the	
					noise nuisance was caused by the windblown action	
					of the corrugated metal sheet loosely affixed onto	
					the temporary noise barrier panel above a concrete	
					block footing fronting City Garden.	
					The noise nuisance was caused by the windblown	
					action of the corrugated metal sheet loosely affixed	
					onto the temporary noise barrier panel above a	
					concrete blocking footing fronting City Garden. The	
					concerned corrugated metal sheet was removed by	
					the Contractor of HY/2009/19 on 27 November 2015	
					to avoid further generation of noise nuisance.	



ate of nplaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
				The Contractor was reminded to check and ensure metal sheetings and other material stored within the construction site are properly affixed to avoid potential noise nuisance due to windblown action.	
 ovemb 2015	EPD complaint received by ET on 04 December 2015	Two International Finance Centre at Finance Street, Central	Construction dust generated from construction site near Two International Finance Centre	A public complaint regarding construction dust impact referred by EPD was received by ET on 04 December 2015 (EPD Ref: H04/RS/00028924-15). The complainant reported that excessive construction dust was generated from the construction site near Two International Finance Centre at Finance Street, Central ET confirmed with the Resident Site Staff that bridge works and drains/ sewers construction at the concerned location was undertaken by Contract HY/2009/18 on 12 November 2015. A stockpile which would be reused for backfilling was stored at the concerned location by Contract HY/2009/18 on 12 November 2015. Mitigation measures implemented by the Contractor for the above construction works including covering of idled portion of stockpile and dampening of the exposed stockpile was implemented for the stockpile at the concerned location.	1 <sup>st</sup> interim report submitted to EPD on 14 December 2015 2 <sup>nd</sup> interm report suibmitted to EPD on 4 January 2016 EPD advised no comment on 07 January 2015 on the report submitted and case closed.



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					According to relevant site records confirmed by	
					RSS, bridge works and drains/ sewers construction	
					at the concerned location was undertaken by	
					Contractor of HY/2009/18 on 12 November 2015	
					and a stockpile which would be reused for	
					backfilling was stored at the concerned location.	
					Mitigation measures including covering of idled	
					portion of stockpile and dampening of the exposed	
					stockpile was implemented for the stockpile at the	
					concerned location.	
					In view of the public concern on potential dust	
					impact at the concerned location, the Contractor of	
					HY/2009/18 rearranged the works sequence and	
					placed concrete blocks at the bridge retaining wall	
					to allow for early commencement of backfilling on	
					19 November 2015 to minimize the size of the	
					stockpile at an earlier stage. Additional water	
					sprinklers were installed on 27 November 2015 to	
					further enhance the dampening of the stockpile	
					surface during excavation.	
					Follow-up inspection was conducted during weekly	
					environmental inspection on 10 December 2015 and	
					mitigation measures including covering of stockpile	
					stored at the concerned location was implemented	
					while it was observed that stockpiles stored near	
					Man Chiu Street was not properly covered. The	
					Contractor of HY/2009/18 was advised to promptly	
					provide covering to all idled stockpile stored on site	
					and the Contractor was reminded to enhance the	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					watering during excavated material handling near	
					the concerned location. Further follow up inspection	
					was conducted on 17 December 2015 and	
					mitigation measures including covering and	
					watering for idle stockpile and material handling	
					were implemented.	
ICC	14	EPD	Construction area	Incompany point among ting	A public complaint regarding noise impact referred	Final report
complaint	Decemb	complaint	outside City	Incessant noise emanating from the construction site	by RSS was received by ET on 16 December 2015	was issued on
case (ICC	er 2015	er 2015 received by	Garden Block 10	of the Island East Corridor	(ICC Case Ref.: 2-1656689815 dated 14	23 December 2015 and
Case Ref: 2- 165668981		ET on 04 December 2015	and Block 11	link that forms part of the Central Wanchai Bypass Project	December 2015). The complainant reported that:	case closed.
5					Incessant noise emanating from the construction	
dated 14					site of the Island Eastern Corridor Link that forms	
December 2015					part of the Central-Wanchai Bypass Project.	
					Over the past couple of weeks, there have been	
					loud mechanical pounding at the construction site	
					over the reclaimed area between Blocks 10 and 11	
					of City Garden. As can be seen, machines have	
					been breaking open the concrete paved on top of	
					the reclaimed area. Work often starts well before	
					9am on weekdays and, barring a brief period of lull	
					during lunch hours, would often continue unabated	
					untill after 5pm. Although I note that certain noise	
					reduction measures have been put into place (e.g.	
					the erection of flimsy noise barriers around the work	
					area), the noise created is still enormous, and this	
					has become a significant nuisance for residents	



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					living in nearby blocks of our estate, especially	
					children and the elderly who have to stay at home	
					for longer hours.	
					ET confirmed with the Resident Site Staff that	
					concreting breaking works was carried out with one	
					breaker on 7, 9, 11, 12 and 14 December 2015 and	
					the breaking works at the concerned location were	
					completed on 14 December 2015 morning. Noise	
					mitigation measures including temporary noise	
					barriers near the point of breaking and covering the	
					breaker with acoustic mat were provided during the	
					concerned concrete breaking works.	
					According to information confirmed by RSS,	
					concreting breaking works was carried out by one	
					excavator mounted breaker on 7, 9, 11, 12 and 14	
					December 2015 and the concerned breaking works	
					outside City Garden Block 10 and Block 11 was	
					completed on 14 December 2015 morning. Noise	
					mitigation measures including temporary noise	
					barriers near the point of breaking and covering the	
					breaker with acoustic mat were provided during the	
					concerned concrete breaking works. Based on the	
					further review on the record of the environmental	
					inspection conducted on 09 December 2015, the	
					Contractor of HY/2009/19 was reminded to	
					temporary noise barrier provided for the pile cap	
					demolition shall follow the the Environmental Permit	
					EP-364/2009/D requirement.	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					Follow up inspection was conducted during weekly	
					environmental inspection on 17 December 2015, the	
					concerned breaking works opposite to City Garden	
					Block 10 and Block 11 was observed completed	
					while the Contractor was reminded that the	
					remaining section of temporary noise barrier in	
					accordance with the latest Environmnetal Permit	
					EP-364/2009/D shall be completed on site as soon	
					as possible. According to the information provided	
					by RSS, the temporary noise barrier in accordance	
					with the Environmental Permit requirement opposite	
					to City Garden was substaintially completed on 21	
					December 2015. In view of the public concern, the	
					Contractor was suggested to consider to review the	
					works duration at daytime and conduct other future	
					breaking works around the concerned location	
					intermittently to minimize the potential noise	
					nuisance caused to the surroundings.	
EPD Ref.: H05/RS/00 000570-16 dated 14 January 2016	07 January 2016	EPD complaint received by ET on 14 January 2016	Lung King Street	Operation of powered mechanical equipment at the construction site near Lung King Street after 1900hrs.	A public complaint regarding construction noise referred by EPD was received by ET on 14 January 2016 (EPD Ref.: H05/RS/00000570-16 dated 14 January 2016). The complainant reported that there was operation of powered mechanical equipment at the construction site near Lung King Street after 1900hrs. (Contract HK/2012/08) ET confirmed with the Resident Site Staff that from 1900hrs to 2115hrs on 06 January 2016, shifting of equipment and socket H-pile casing was undertaken by the Contractor of HK/2012/08 at the concerned location. Total one crawler crane was in operation.	Interim investigation report submitted to EPD on 22 January 2016. EPD advised on 17 February no comment on the interm report submitted and case closed.



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					According to the relevant site records provided by RSS, shifting of equipment and socket H-pile casing was undertaken by the Contractor of HK/2012/08 at the concerned location from 1900hrs to 2115hrs on 06 January 2016. Total one crawler crane was in operation and the relevant Construction Noise Permit GW-RS0976-15 for the concerned operation was confirmed in place. Based on the above, the construction activities conducted under Contract HK/2012/08 on 06 January 2016 after 1900hrs was in compliance with the statutory requirement. Nevertheless, the Contractor was reminded to upkeep the site control system for construction works carried out during restricted hours and night time for Construction Noise Permit compliance in view of the nearby public concern.	
ICC complaint case (ICC Ref.: #2- 1754682833 and ICC Ref: #2- 1759629742	19 January 2016	EPD complaint received by ET on 19 January 2016	Hung Hing Road	Drainage at Hung Hing Road, Causeway Bay near the entrance of Cross Harbour Tunnel was blocked and sewage was overflowing from the sewer.	Two public complaints regarding the subject matter on blocked drainage were referred by RSS was received by ET on 19 January 2016 (ICC Ref.: #2- 1754682833 and ICC Ref: #2-1759629742). The first complainant (ICC Ref.: #2-1754682833) on 11 January 2016 reported that the drainage at Hung Hing Road, Causeway Bay near the entrance of Cross Harbour Tunnel was blocked and sewage was overflowing from the sewer. The first complainant on 13 January 2016 enquired the status of follow-up, the complainant reported that the sewage overflow was severe and pose environmental hygiene concern to the	Final investigation report issued on 27 January 2016



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					surroundings.	
					The first complainant on 14 January 2016 reported that the situation was not improved and would escalate the case if not addressed.	
					The second complainant on 12 January 2016 (ICC Ref: #2-1759629742) reported that a foul sewer was found choking and foul water flows onto the carriageways.	
					ET confirmed with the Resident Site Staff that no discharge point from the Contractor of HY/2009/15 is located within the concern portion of public drain (roadside gully) along Hung Hing Road.	
					The observed yellow pipe extending from the roadside gully at Hung Hing Road into the site area under Contract HY/2009/15 was installed by the Contractor of HY/2009/15 to pump excessive sewage from the roadside gully on 11 January 2016.	
					According to relevant site records and information provided by RSS, a steady flow of wastewater, noticeably sewer-like odour, was seeping through an existing sewage manhole at Hung Hing Road on 11 January 2016 and resulting in the formation of local ponding formed around the low point gully nearby.	
					Based on relevant site information, no discharge point from the Contractor of HY/2009/15 was located at the concerned public drain (roadside gully) along Hung Hing Road while the observed yellow pipe extending from the roadside gully at Hung Hing Road into Contract HY/2009/15 site area was installed by the Contractor of HY/2009/15 to pump excessive sewage from the roadside gully on 11 January 2016. In view of po	
					roadside gully on 11 January 2016. In view of no discharge point established under Contractor HY/2009/15 was observed at the concerned portion of Hung Hing Road, no direct information	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					indicating the association with the Contractor of HY/2009/15 is considered available. Follow up inspection was conducted during the weekly environmental inspection on 26 January 2016, no further accumulation of wastewater and no particular blockage of the concerned roadside gully at Hung Hing Road was observed. In addition, no overflow from the roadside sewer was observed. Nevertheless, the Contractor of HY/2009/15 was reminded to upkeep the site exit condition to avoid any potential impact to the surroundings.	
EPD complaint case (EPD Case Ref.:H05/R S/00001524 -16	22 January 2016	EPD complaint received by ET on 22 January 2016	Hung Hing Road	Construction wastewater from the China Stat's construction site under Contract HY/2009/15 was discharged from the site exit at Hung Hing Road near the Royal Hong Kong Yacht Club to the carriage of Hung Hing Road causing accumulation of stagnant water	A public complaint regarding the blockage of public drainage referred by EPD was received by ET on 22 January 2016 (EPD Case Ref.: H05/RS/00001524-16). The complainant reported that construction wastewater from the China State's construction site under Contract HY/2009/15 was discharged from the site exit at Hung Hing Road near the Royal Hong Kong Yacht Club to the carriage of Hung Hing Road causing accumulation of stagnant water starting from 11 January 2016. ET confirmed with the Resident Site Staff that no construction activities with potential runoff at the main entrance of PRE Office was conducted under Contractor of HY/2009/15 on 11, 14, 15 and 17 January 2016. Concreting for Seawall Reinstatement at TPCWAE was conducted under Contractor of HY/2009/15 on 12 January 2016 and 18 January 2016. Concreting for construction works at covered Tunnel by using concrete pump at TPCWAE was conducted under Contractor of HY/2009/15 on 13 January 2016 and 16 January 2016.	Interim investigation report submitted to EPD on 01 February 2016. EPD advised on 17 February no comment on the interm report submitted and case closed.
					According to relevant site records and information	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					provided by RSS, a steady flow of wastewater, noticeably sewer-like odour, was seeping through an existing sewage manhole at Hung Hing Road on 11 January 2016 and resulting in the formation of local ponding formed around the low point gully nearby. Based on relevant site information provided by RSS, no construction activity with potential runoff at the main entrance of PRE Office were conducted under Contractor of HY/2009/15 on 11, 14, 15 and 17 January 2016 while concreting for seawall reinstatement at TPCWAE were conducted on 12 January 2016 and 18 January 2016 and concreting for construction works at covered Tunnel by using concrete pump at TPCWAE were conducted on 13 January 2016 and 16 January 2016. All construction runoff was pumped to the wastewater treatment facility. In addition, no discharge point from the Contractor of HY/2009/15 was located at the concerned public drain (roadside gully) along Hung Hing Road. Follow up inspection was conducted during the weekly environmental inspection on 26 January 2016. No further accumulation of wastewater and particular blockage of the concerned roadside gully at Hung Hing Road was observed and no overflow from the roadside sewer was observed. The condition of the construction site exit under HY/2009/15 was generally in order and no particular construction surface runoff was observed. Nevertheless, the Contractor of HY/209/15 was reminded to upkeep the site exit condition to avoid any potential impact to the surroundings.	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
EPD Ref.: H05/RS/000 03169-16 dated 16 February 2016	16 February 2016	EPD complaint received by ET on 16 February 2016	West of HKCEC	Construction work at construction site of CEDD Wan Chai Development Phase II reclamation project around 2200hrs	A public complaint regarding construction works at restricted hours referred by EPD was received by ET on 16 February 2016 (EPD Ref.:H05/RS/00003169-16 dated 16 February 2016). The complainant reported that: There was construction work at construction site of CEDD Wan Chai Development Phase II reclamation project around 2200hrs on 06 February 2016 at the west of HKCEC within the work area of Contract HK/2012/08. ET confirmed with the Resident Site Staff that from 1900hrs to 2300hrs on 06 February 2016, no site activity was undertaken by the Contractor of HK/2012/08 at the concerned location and site activities under the Contractor of HK/2012/08 at the concerned area were stopped around 1700hrs on 06 February 2016. According to the relevant site records provided by RSS, from 1900hrs to 2300hrs on 06 February 2016, no site activity was undertaken by the Contractor of HK/2012/08 at the concerned location and site activities under the Contractor of HK/2012/08 at the concerned area were stopped around 1700hrs on 06 February 2016. Nevertheless, the Contractor was reminded to upkeep the site control system for any construction works carried out during restricted hours and night time for Construction Noise Permit compliance.	Interim investigation report submitted to EPD on 23 February 2016.



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
	01 March 2016		116 received by ET near the parking emanated from road works on 03 March spaces for	A public complaint regarding construction noise referred by ICC was received by ET on 03 March 2016 (ICC Ref.: CASE#2-1938637403 dated 01 March 2016). The complainant reported that construction noise was emanated from road works located between Lung Wo Road and Lung Wui Road Interface. Further information was referred by RSS on 15 March 2016, the complainant clarified on 15 March 2016 that construction noise was emanated from road works located between Lung Wo Road and Lung Wui Road Interface during midnight and has lasted for one and half month resulting in nuisance to nearby residence.	1 <sup>st</sup> investigation report issued on 11 March 2016. 2 <sup>nd</sup> investigation report issued on 23 March 2016 and case closed.	
				Further information was referred by RSS on 18 March 2016, the complainant further clarified on 18 March 2016 that the concerned location shall be Lung King Street near the parking spaces for motorcycles and the Contract no. as stated on the publicity board is HK/2012/08. Furthermore, the complainant identified the noise was from power generators.		
				ET confirmed with the Resident Site Staff that there was neither construction works nor operation of power generators under Contract HK/2012/08 at the concerned location from 1900hrs to 0700hrs during the period from 23 February 2016 to 14 March 2016.		
					Based on the complaint information referred by ICC on 3 March 2016, according to the relevant site records provided by RSS, from 0800hrs to 1800hrs on both 29 February 2016 and 01 March 2016, drainage works was undertaken by Contract HK/2012/08 at Lung Wo Road and one excavator was in operation for soil excavation. Follow up inspection was conducted during the weekly environmental site inspection on 08 March 2016	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
				Nature of Complaint	Outcome         and no particular noise emanating works was observed.         Based on the further information provided by the complainant on 15 March 2016, the complainant clarified on 15 March 2016 that Construction noise was emanated from road works located between Lung Wo Road and Lung Wui Road Interface during midnight and has lasted for one and half month resulting in nuisance to nearby residence. On 18 March 2016, the complainant further clarified on 18 March 2016 that the concerned location shall be Lung King Street near the parking spaces for motorcycles and the Contract no. as stated on the publicity board is HK/2012/08. Furthermore, the complainant identified the noise was from power generators. According to the relevant site records provided by RSS, there was neither construction works nor operation of power generators under Contract HK/2012/08 at the concerned location from 1900hrs to 0700hrs during the period from 23 February 2016 to 14 March 2016.         Nevertheless, in view of the public concern, the Contractor is recommended to maintain regular maintenance of the plant and equipment deployed to avoid potential nuisance to the nearby public.	Status



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
EPD Ref.: H05/RS/000 05206-16 dated 10 March 2016	07 March 2016	EPD complaint received by ET on 10 March 2016	Waterfront at Lung King Street	Construction dust, plant exhaust and construction noise generated from the construction work of Contract HK/2012/08 at waterfront of Lung King Street caused nuisance, and the water quality at the waterfront of Lung King Street was becoming worse that accumulation of the floating refuse and foam was found	A public complaint regarding construction dust, plant exhaust, construction noise and water quality referred by EPD was received by ET on 10 March 2016 (EPD Ref.: H05/RS/00005206-16 dated 10 March 2016). The complainant reported that construction dust, plant exhaust and construction noise generated from the construction work of Contract HK/2012/08 at waterfront of Lung King Street caused nuisance, and the water quality at the waterfront of Lung King Street was becoming worse that accumulation of the floating refuse and foam was found. ET confirmed with the Resident Site Staff that soil excavation at ELS area, Zone A2(2), was carried out, where at approx. 100m from the waterfront of Lung King Street from 08:00 hrs to 18:00 hrs on 07 March 2016 under Contract HK/2012/08. Two excavators were involved at that location. Erection of falsework for culvert L was carried out near the waterfront of Lung King Street from 08:00 hrs to 18:00 hrs on 07 March 2016 under Contract HK/2012/08. One lorry crane was involved for lifting falsework elements. Dust suppression measures including the water sprinklers were installed along site haul road. Regularly removed the floating refuse at the waterfront of Lung King Street was conducted by the Contractor of HK/2012/08. The concerned observed floating foam at the waterfront of Lung King Street was found originating from the diverted cooling mains discharge. According to the relevant site records provided by RSS, soil excavation at ELS area, Zone A2(2) was carried out, where at approx.100m from the waterfront of Lung King Street under Contract	Interim investigation report submitted to EPD on 18 March 2016. EPD advised no comment on 29 April 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
					<ul> <li>HK/2012/08 from 08:00hrs to 18:00hrs on 07 March 2016 and two excavators were in operation at that location while erection of falsework for culvert L was carried out near the waterfront of Lung King Street from 08:00hrs and 18:00hrs on 07 March 2016 under Contract HK/2012/08 and one lorry crane was involved for lifting falsework elements. Dust suppression measures including the use of water sprinklers along the site haul road was implemented by the Contractor of HK/2012/08 and removal of floating refuse was regularly conducted at the waterfront of Lung King Street by the Contractor of HK/2012/08. Upon investigation, the concerned observed floating foam at the waterfront of Lung King Street was found originating from the diverted cooling mains discharge.</li> <li>Follow up inspection was conducted during the weekly environmental site inspection on 15 March 2016 and dust suppression measures including watering for haul road, tarpaulin sheet covering for cement bags stored on site and three side and top covering for grouting station were implemented while and no dark smoke emission from the plant and machinery deployed on site was observed. Noise mitigation measures including acoustic covering was implementing for excavator mounted breaker. In addition, removal of floating refuse on site was observed implemented by the Contractor of HK/2012/08 and no accumulation of floating refuse was observed implemented by the Contractor of HK/2012/08 and no accumulation of floating refuse was observed implemented by the contractor of HK/2012/08 and no accumulation of floating refuse was observed inspection and the dispersion of the concerned foam of unknown chemical nature was observed isolated from the nearby public area.</li> </ul>	
					Nevertheless, in view of the public concern, the	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					Contractor was recommended to maintain regular checking of the plants and equipment deployed on site to avoid potential air quality impact to the nearby public and to maintain adequate dust suppression measures on site to avoid potential dust impact to the surroundings. The Contractor was reminded to maintain regular cleaning of floating refuse within the construction site area to avoid potential nuisance to the surroundings. The Contractor was also reminded to maintain the noise mitigation measure if breaking works would be required. The Contractor was also suggested to reflect the observed foam to relevant Cooling Mains owners.	
EPD Ref.: H05/RS/000 06732-16 dated 10 March 2016	23 March 2016	EPD complaint received by ET on 31 March 2016	Seafront opposite to City Garden	Muddy water discharge from construction site outside City Garden	A public complaint regarding direct discharge of muddy effluent referred by EPD was received by ET on 31 March 2016 (Case Ref.: H08/RS/00006732-16). The complainant reported that: Muddy water was observed discharged from the	The interim investigation report was submitted to EPD on 11 April 2016. EPD advised
					construction site of Central – Wan Chai Bypass – Tunnel (North Point Section) and Island Eastern Corridor Link (Contract No. HY/2009/19) into Victoria Habour via a drain hole.	no comment on 02 September 2016 on the
					ET confirmed with the Resident Site Staff that pipe Laying works between Pier 32 and Pier 33 and excavation and blinding works for Manhole at Pier 34 were in progress on 22 March 2016.	interim report submitted and case closed.
					The observed drain hole was identified to be the outlet point of a manhole and a section of an abandoned U-channel (extending from the concerned manhole to the Hong Kong Electric Substation in length along the site boundary) was adjoining the concerned manhole and sandbag was previously placed at the U-channel at the location near the inlet point to the concerned manhole.	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					Based on the site records confirmed by RSS, pipe laying works between Pier 32 and Pier 33 and excavation and blinding works for Manhole at Pier 34 were in progress on 22 March 2016. The observed drain hole was identified to be the outlet point of a manhole and a section of an abandoned U-channel (extending from the concerned manhole to the Hong Kong Electric Substation in length along the site boundary) was adjoining the concerned manhole and sandbag was previously placed at the U-channel at the location near the inlet point to the concerned manhole. In addition, no site discharge point was connected to the aforesaid U-channel and the concerned manhole. In view of the environmental concern, the following remedial and precautionary actions were taken by the Contractor of HY/2009/19 on 29 March 2016.	
					<ul> <li>i)Plugging the inlet point of the concerned manhole (connecting to the abandoned U-channel) with concrete;</li> <li>ii)Plugging the outlet of the concerned manhole (connecting to the observed drain hole) with concrete;</li> <li>iii)Filling the concerned manhole with rubbles;</li> <li>iv)Shifting the unused wastewater treatment plant around the concerned location to other site location for use.</li> </ul>	
					Follow-up inspection was conducted by the Environmental Team on 06 April 2016. No further contaminated runoff discharge was observed from the concerned drain hole and precautionary measures including provision of concrete bunding was implemented along the site boundary at the concerned location to avoid potential surface overflow. The pipe laying works and the excavation works was found at distant location	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					away from the concerned drain hole with no surface drain connection and no particular effluent was generated from the work. As such, no information indicate the discharge was related to the above construction activities.	
					However, it was noted that another section of surface drainage channel within the construction site (perpendicular in direction to the initial identified abandoned U-channel) was also in connection to concerned manhole and minor residue mud deposition was observed within the surface drainage channel. Despite the above additional surface drainage channel identified, the outlet point of concerned final manhole (in connection with the observed drain hole) was observed plugged with concrete and filled with rubbles as rectification measure to avoid any further contaminated runoff discharge via the observed drain hole.	
					Nevertheless, the Contractor of HY/2009/19 was reminded to conduct regular cleaning works for site surface drainage channel to avoid accumulation of silt and soil and avoid potential overflow by directing the surface runoff within the surface drainage channel to proper collection point for necessary treatment prior to discharge. The Contractor of HY/2009/19 was also reminded to check and review other surface drainage channel within the construction site to avoid potential runoff related impact via surface drainage channel to the nearby waters.	
					In addition, it was noticed that water was discharged from a piping extending from City Garden and the discharged water would result in seepage across the site hoarding into the abandoned U-channel. The Contractor of HY/2009/19 was suggested to liaise with the City Garden Management Office for proper connection	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					of the observed pipping with discharge to prevent further seepage water into the construction site.	
H08/RS/000 07662-16	05 April 2016		eived by ET opposite to Harbour arising from drilling activit 05 April Heights	Construction dust emission arising from drilling activity	A public complaint regarding construction dust emission was referred by EPD was received by ET on 05 April 2016 (Case Ref.: H08/RS/00007662- 16). The complainant reported that construction dust emission arising from drilling activity from the construction site of Central – Wan Chai Bypass – Tunnel (North Point Section) and Island Eastern Corridor Link (Contract No. HY/2009/19).	The interim report was submitted to the EPD on 14 April 2016. EPD conducted follow up site visit on
					ET confirmed with the Resident Site Staff that drilling holes for installation of starter bars was carried out under Contract HY/2009/19 at the vertical cut face of the existing IEC road slab on 05 April 2016	rectification measures on 21 April 2016. A inspection record form (Pink Form)
					Based on the site records confirmed by RSS, drilling holes for installation of starter bars was carried out under Contract HY/2009/19 at the vertical cut face of the existing IEC road slab on 05 April 2016 and according to the photo information	was issued to the Contractor regarding the observed incident.
					provided by the EPD, no dust suppression measures was implemented during the observed drilling works on 05 April 2016.	EPD advised no comment on 02 September
					According to Air Pollution Control Ordinance, for pneumatic or power-driven drilling, cutting and polishing, water or a dust suppression chemical shall be continuously sprayed on the surface where any pneumatic or power-driven drilling, cutting, polishing or other mechanical breaking operation that causes dust emission is carried out, unless the process is accompanied by the operation of an effective dust extraction and filtering device.	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
					Follow-up inspection was conducted on 06 April 2016, rectification actions including the use of vacuum suction to extract dust generated during the concerned drilling works was observed implemented by the Contractor of HY/2009/19 for starter bars drilling works.	
ICC Case Ref.:2- 203652505 5 dated 27 March 2016	27 March 2016	ICC complaint case received by ET on 11 April 2016	Victoria Park Road Pedestrian Pathway	Toppling of tree	<ul> <li>An ICC public complaint regarding landscape aspect was referred by RSS was received by ET on 11 April 2016 (Case Ref.:2-2036525055). The complainant reported that a tree (6 meters in height and 1.5 meters in diameter) was found toppled at 111 Victoria Park Road, near Lamp post 38632 and blocking the Pedestrian pathway on 27 March 2016.</li> <li>ET confirmed with the Resident Site Staff that the concerned tree was identified as T710 and no construction activity in the vicinity of tree T710 on 27 March 2016 and no construction works are required in or near its vicinity.</li> <li>Based on the site records confirmed by RSS, the concerned tree was identified as the retained tree T710 maintained under the Contract of HY/2010/08 and the concerned tree T710 was located outside the assessment area in the relevant Project EIA Report. No construction works are required in the vicinity of concerned tree T710 and no construction activity was conducted in the vicinity of tree T710 and no construction activity at trunk and the concerned tree T710 has been recommended to be felled in the tree risk assessment Form 2.</li> </ul>	Investigation Report issued on 15 April 2016 and case closed
					With respect to the observed incident of the toppling of the concerned tree T710, the	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					Contractor of HY/2010/08 was instructed by RSS to remove the broken trunk/ remains to avoid impact to the surroundings. The concerned tree T710 shall be compensated by the Contractor of HY/2010/08 in accordance with the Development Bureau Technical Circular (Works) No. 7/2015 and the detail on compensation would be further agreed with Victoria Park Management Office. Follow-up inspection was conducted on 13 April 2016, and the remaining parts of the concerned tree T710 was observed felled to avoid further impact to nearby public road.	
Not available	12 April 2016	A CEDD public complaint referred by RSS was received by ET on 13 April 2016	East of Star Ferry Piers	Muddy water was observed to disperse from Contract HK/2009/02 site area to Victoria Harbour occasionally as there was no silt curtain installed under the buoyancy floats. The location concerned was the East of Star Ferry Piers (Contract No. HK/2009/02).	<ul> <li>A CEDD public complaint regarding muddy dispersion referred by RSS was received by ET on 13 April 2016. The complainant reported that muddy water was observed to disperse from Contract HK/2009/02 site area to Victoria Harbour occasionally as there was no silt curtain installed under the buoyancy floats. The location concerned was the East of Star Ferry Piers (Contract No. HK/2009/02).</li> <li>ET confirmed with the Resident Site Staff that no marine construction activities or land construction activities under Contract HK/2009/02 at the concerned location on 12 April 2016. Surface runoff control measures including provision of concrete bund at the concerned location was implemented by Contract HK/2009/02. No soil &amp; silt deposition along the seawall at the concerned location under Contract HK/2009/02. Silt curtain with buoyancy floats acting as anchor points was installed at Monitoring Station RW21-P789 for Water intakes.</li> </ul>	Investigation report issued on 19 April 2016 and case closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					<ul> <li>Based on the site records confirmed by RSS, no marine construction activities or land construction activities was carried out under Contract HK/2009/02 at the concerned location on 12 April 2016 and no soil and silt deposition was found along the seawall at the concerned location and precautionary measures for site runoff control including provision of concrete bund along boundary of site area near the waterfront around the concerned location was implemented by the Contractor HK/2009/02. In addition, no discharge point under Contract HK/2009/02 was located in the vicinity of the concerned location. Based on information confirmed by RSS, the buoyancy floats deployed at the concerned location are acting as the anchor points for the silt curtain deployed around the WQM Station RW21-P789 for the WSD and Cooling Water Intakes group.</li> <li>Follow-up inspection was conducted on 14 April 2016, no surface runoff from the construction site nor discharge of contaminated effluent was observed around the concerned location was observed maintained by the Contractor of HK/2009/02 and the silt curtain deployed around the WQM station RW21-P789 was generally in order.</li> <li>In view of the public concern on the water quality, the Contractor of HK/2009/02 was reminded to maintain effective surface runoff protection and provide proper collection point of construction effluent around the concerned location to avoid potential surface runoff related impact.</li> </ul>	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
EPD Ref.: H05/RS/000 08367-16 dated 13 April 2016	13 April 2016	A public complaint referred by EPD was received by ET on 13 April 2016	Outside the Hong Kong Academy for Performing Arts	Muddy water discharge from construction site	A public complaint regarding muddy water discharge referred by EPD was received by ET on 13 April 2016 (EPD Ref.: H05/RS/00008367-16 dated 13 April 2016). The complainant reported that muddy water was discharged from the construction work of Contract HK/2012/08 to the sea outside the Hong Kong Academy for Performing Arts on 13 April 2016 morning. ET confirmed with the Resident Site Staff that internal transport of soil to the hopper barge for storage via landing barge was conducted by Contractor of HK/2012/08 during 0800 hours to 1000 hours on 13 April 2016 at the sea outside the concerned location and 3 nos. of dump trucks were deployed for the operation. Protection measure including provision of sandbag bunding along the side of the landing barge was implemented by the Contractor of HK/2012/08. According to the relevant site records provided by RSS, internal transport of soil to the hopper barge for storage via landing barge was conducted by Contractor of HK/2012/08 during 0800 hours to 1000 hours on 13 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 conducted by Contractor of HK/2012/08 during 0800 hours to 1000 hours on 13 April 2016 at the sea outside the concerned location and 3 nos. of dump trucks were deployed for the operation. Protection measure including provision of sandbag bunding along the side of the landing barge was implemented by the Contractor of HK/2012/08. 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.	Interim investigation report was submitted to the EPD on 21 April 2016. EPD advised no further comment on 06 June 2016 on the interim report submitted and case closed.
					2016, protection measures including provision of	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					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	
EPD Ref: H05/RS/000 12646-16 dated 27 May 2016	26 May 2016	A public complaint referred by EPD was received by ET on 27 May 2016	Construction Site near Wanchai Ferry Pier	Operation of generator around the clock	related impact to nearby waters. A EPD complaint regarding noise nuisance referred by RSS was received by ET on 27 May 2016 (EPD Ref: H05/RS/00012646-16 dated 27 May 2016). The complainant reported that a generator was operated round-the-clock in the Chun Wo- CRGL JV construction site near Wanchai Ferry Pier that cause noise nuisance. (Contract No. HK/2009/02). ET confirmed with the Resident Site Staff that a generator deployed under Contract HK/2009/02 near the covered walkway for Wanchai Ferry Pier at Portion 2 area and was operated from 1900hrs on 24 May 2016 to 0700hrs on 25 May 2016 and from 1900hrs on 25 May 2016 to 0700hrs on 26 May 2016. The generator was used for the power supply of lighting inside Tunnel Portions 1 and 2. According to the relevant site records provided by	Interim investigation report submitted to EPD on 7 June 2016. EPD advised no further comment on 05 August 2016 on the report submitted and case closed.



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					RSS, a generator deployed under Contract HK/2009/02 near the covered walkway for Wanchai Ferry Pier at Portion 2 area and was operated from 1900hrs on 24 May 2016 to 0700hrs on 25 May 2016 and from 1900hrs on 25 May 2016 to 0700hrs on 26 May 2016. The generator was used for the power supply of lighting inside Tunnel Portions 1 and 2. Based on review on site information, relevant Construction Noise Permits GW-RS0516-16 and GW-RS0390- 16 for the operation of the concerned generator were confirmed in place while no sufficient site information was considered available to demonstrate the use of acoustic enclosure for the operation of the generator following the special condition 3d item 4. Despite the above, the Contractor of HK/2009/02 has suspended the use of the generator at the concerned location after 2300hours to minimize potential noise concern to the surroundings from 28 May 2016. Nevertheless, the Contractor of HK/2009/02 was reminded to upkeep the site control system for construction works carried out during restricted hours and night time for Construction Noise Permit compliance and maintain regular maintenance of the plant and equipment deployed to avoid potential nuisance to the nearby public.	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
EPD Ref: H08/RS/000 14627-16 dated 16 June 2016	15 June 2016	A public complaint referred by EPD was received by ET on 16 June 2016	Construction area of Island Eastern Corridor near Sea View Estate.	Splashing from the working area of Island Eastern Corridor near Sea View Estate.	A public complaint was referred by EPD was received by ET on 16 June 2016 (Case Ref.: H08/RS/00014627-16). The complainant reported that his or her properties were covered by many water stains which were splashing from the working area of Island Eastern Corridor near Sea View Estate. ET confirmed with the Resident Site Staff that rebar fixing was carried out on 13 and 14 June 2016 under the Contractor of HY/2009/19 while formwork cleaning and laying concrete for stitching and curing work for concrete were carried out under the Contractor of HY/2009/19 on 15 June 2016 and 16 June 2016 respectively. Mitigation measures including provision of metal cover underneath the bridge deck in slanting position at Watson Road to prevent spilling of water onto public road and provision of tarpaulin sheet along the guard rails of the bridge deck at Pier 19- 20 (opposite to Sea View Estate) to prevent splashing of water to outside area were implemented by the Contractor of HY/2009/19.	The interim report submitted to the EPD on 29 June 2016. EPD advised no comment on the interim report submitted and case closed on 02 September 2016.
					Based on the site records confirmed by RSS, rebar fixing was carried out on 13 and 14 June 2016 under the Contractor of HY/2009/19 while formwork cleaning and laying concrete for stitching and curing work for concrete were carried out under the Contractor of HY/2009/19 on 15 June 2016 and 16 June 2016 respectively. Mitigation measures including provision of metal cover underneath the bridge deck in slanting position at Watson Road to prevent spilling of water onto public road and provision of tarpaulin sheet along the guard rails of the bridge deck at Pier 19- 20 (opposite to Sea View Estate) to prevent splashing of water to outside area were implemented by the Contractor of HY/2009/19.	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					Follow up inspection was conducted on 22 June 2016, mitigation measures including the use of metal cover underneath the bridge deck at Watson Road and provision of tarpaulin sheet along the guard rails of the section of bridge deck opposite to Sea View Estate were implemented by the Contractor of HY/2009/19. No particular spilling or splashing of construction water was observed during inspection around the concerned location. Nevertheless, in view of the public concern, the Contractor of HY/2009/19 was suggested that the direction of the water hose shall be pointed away from the public area as far as practicable during water use or watering for dust suppression to avoid potential splashing nuisance caused to the surroundings. The Contractor of HY/2009/19 was also reminded to maintain proper site drainage to direct surface runoff generated from construction works or cleaning to the proper collection point within site area to avoid potential nuisance to the surroundings.	
EPD Ref: H08/RS/000 16213-16 dated 14 July 2016	30 June 2016	A public complaint referred by EPD was received by ET on 14 July 2016	Construction Site of TS3 near Slip Road 8	Night time construction noise from construction works between 0200hrs to 0300hrs and construction dust emission from construction site of TS3 near Slip Road 8 section.	A public complaint referred by EPD was received by ET on 14 July 2016 (Case Ref.: H08/RS/00016213-16). The complainant reported the concern about night time construction noise from construction works between 0200hrs to 0300hrs and construction dust emission from construction site of TS3 near Slip Road 8 section. ET confirmed with the Resident Site Staff that excavation at TS3 and loading of material onto derrick barge (Shun Tat 28) by crawler crane was undertaken by the Contractor of HY/2010/08 from 19:00hrs to around 02:00hrs on 30 June 2016. Total one crawler crane was in operation. Noise mitigation measures including equipping the crawler crane with noise barrier was implemented	The interim report submitted to the EPD on 22 July 2016



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					by the Contractor of HY/2010/08.	
					Dust mitigation measures including manual spraying of water and mist nozzles are deployed on the ground level and at the cofferdam.	
					Based on the site records confirmed by RSS, excavation at TS3 and loading of material onto derrick barge (Shun Tat 28) by crawler crane was undertaken by the Contractor of HY/2010/08 from 19:00hrs on 29 June 2016 to around 02:00hrs on 30 June 2016. No construction works was conducted at the concerned location after around 02:00hrs on 30 June 2016. Total one crawler crane was in operation and noise mitigation measures including equipping the crawler crane with noise barrier was implemented by the Contractor of HY/2010/08.	
					Based on review on relevant record, Construction Noise Permit GW-RS0434-16 for the operation of crawler crane at the concerned location was in place. However, based on relevant site record, it was noted that the crawler crane deployed during the concerned period could not match with the specific PME requirement under condition 3a (Crane, crawler, mounted with noise barrier (Kobelco 7250S)) of the Construction Noise Permit GW-RS0434-16 between 23:00hrs to 07:00hrs on the following day. Dust mitigation measures including manual spraying of water and mist nozzles were deployed on the ground level and at the cofferdam.	
					Follow up inspection was conducted on 20 July 2016, the potential concerned excavation works at the concerned location was not observed and no particular dust impact was observed around the concerned location. In view of the above, the Contractor of HY/2010/08	
					was advised to review the site control system for	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					construction works carried out during restricted hours to check and ensure the model/ specific PMEs deployed are in compliance with relevant Construction Noise Permit. The Contractor of HY/2010/08 was also reminded to maintain regular maintenance of the plant and equipment deployed to avoid potential nuisance to the nearby public. Also, the Contractor of HY/2010/08 was reminded to maintain sufficient watering for excavated material handling to avoid potential dust nuisance to the surroundings.	
EPD Ref: H08/RS/000 22448-16 dated 06 September 2016	04 Sept 2016	A public complaint referred by EPD was received by ET on 06 September 2016	Road construction works area near Causeway Bay Typhoon Shelter	Construction noise from road construction work near Causeway Bay Typhoon Shelter	A public complaint referred by EPD was received by ET on 06 September 2016 (Case Ref.: H08/RS/00022448-16). The complainant reported that construction noise from the road construction work near Causeway Bay Typhoon Shelter during 0800hrs to 2100 hrs on 04 September 2016 (Sunday) caused nuisance. The complainant also indicated that the construction noise was generated up to 0100 hrs on normal weekdays. ET confirmed with the Resident Site Staff that underwater welding of lagging plate at Zone C was conducted from 0800hrs to 2100hrs on 04 September 2016. Total 1 no. of generator and 1 no. of welding machine were in operation. Grouting works at Victoria Park Road Eastbound slow lane was conducted from 2300hrs on 01 September 2016 to 0100hrs on 02 September 2016. Total 1 no. of grout mixer, 1 no. of agitator and 1 no. of grout pump were in operation. Grouting works at Victoria Park Road Eastbound slow lane was conducted from 2300hrs on 01 September 2016 to 0100hrs on 03 September 2016. Total 1 no. of grout mixer, 1 no. of agitator and 1 no. of grout pump were in operation. Grouting works at Victoria Park Road Eastbound slow lane was conducted from 2300hrs on 02 September 2016 to 0100hrs on 03 September 2016. Total 1 no. of grout mixer, 1 no. of agitator and 1 no. of grout pump were in operation. Grouting works at Victoria Park Road Eastbound slow lane was conducted from 2300hrs on 02 September 2016 to 0100hrs on 03 September 2016. Total 1 no. of grout mixer, 1 no. of agitator and 1 no. of grout pump were in operation.	The interim report submitted to EPD on 20 September 2016. EPD advised no comment on 31 October 2016 on the interim report submitted and case closed.



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					slow lane was conducted from 2300hrs to 2359hrs on 03 September 2016. Total 1 no. of grout mixer, 1 no. of agitator and 1 no. of grout pump were in operation.	
					Based on the site records confirmed by RSS, underwater welding of lagging plate at Zone C was conducted from 0800hrs to 2100hrs on 04 September 2016, total 1 no. of generator and 1 no. of welding machine were in operation and relevant Construction Noise Permit GW-RS0442-16 was in place. Grouting works at Victoria Park Road Eastbound slow lane was conducted from 2300hrs on 01 September 2016 to 0100hrs on 02 September 2016. Total 1 no. of grout mixer, 1 no. of agitator and 1 no. of grout pump were in operation. Grouting works at Victoria Park Road Eastbound slow lane was conducted from 2300hrs on 02 September 2016 to 0100hrs on 03 September 2016. Total 1 no. of grout mixer, 1 no. of agitator and 1 no. of grout mixer, 1 no. of agitator and 1 no. of grout mixer, 1 no. of agitator and 1 no. of grout pump were in operation. Grouting works at Victoria Park Road Eastbound slow lane was conducted from 2300hrs to 2359hrs on 03 September 2016. Total 1 no. of grout mixer, 1 no. of agitator and 1 no. of grout pump were in operation. Relevant Construction Noise Permit GW-RS0531-16 was in place for the above construction activities.	
					Nevertheless, in view of the public concern, the Contractor of HY/2010/08 was reminded to maintain the site control system for construction works carried out during restricted hours to ensure the PMEs deployed are in compliance with relevant Construction Noise Permit. The Contractor of HY/2010/08 was also reminded to maintain regular maintenance of the plant and equipment deployed to avoid potential nuisance to the nearby public.	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
EPD Ref: H08/RS/000 24768-16 dated 07 October 2016	28 Sept 2016 04 Oct 2016	A public complaint referred by EPD was received by ET on 07 October 2016	Causeway Bay Typhoon Shelter	Construction work at the construction site in Causeway Bay Typhoon Shelter area was found after 1900hrs on 28 September 2016 and 04 October 2016 that caused noise nuisance.	A public complaint referred by EPD was received by ET on 07 October 2016 (Case Ref.: H08/RS/00024768-16). The complainant reported that construction work at the construction site in Causeway Bay Typhoon Shelter area was found after 1900hrs on 28 September 2016 and 04 October 2016 that caused noise nuisance. The complainant also reported that there were 5 concrete lorry mixers operating at the above site after 1900hrs on 04 October 2016. ET confirmed with the Resident Site Staff that concreting for tunnel structure in TS3 (W) was	The interim investigation report was submitted to EPD on 18 October 2016.
					conducted from 1900hrs to 2300hrs on 28 September 2016. One concrete pump and two concrete lorry mixers were in operation. One no. of concrete lorry mixer was located at the East of TS3 (W) and one no. of concrete lorry mixer was located at the west of TS3 (W). Concreting for tunnel structure in TS3 (W) was conducted from 1900hrs to 2300hrs on 04 October 2016. One concrete pump and two concrete lorry mixers were in operation. One no. of concrete lorry mixer was located at the East of TS3 (W) and one no. of concrete lorry mixer was located at the west of TS3 (W).	
					Based on the site records confirmed by RSS, concreting for tunnel structure in TS3 (W) was conducted from 1900hrs to 2300hrs on 28 September 2016 and from 1900hrs to 2300hrs on 04 October 2016 and total one concrete pump and two concrete lorry mixers were in operation during the above concerned periods. One no. of concrete lorry mixer was located at the East of TS3 (W) and one no. of concrete lorry mixer was located at the west of TS3(W) during the above concerned periods and relevant Construction Noise Permit	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					GW-RS0434-16 and GW-RS0407-16 were in place for the construction works conducted during the above concerned periods.	
					Nevertheless, in view of the public concern, the Contractor of HY/2010/08 was reminded to maintain the site control system for construction works carried out during restricted hours to ensure the PMEs deployed are in compliance with relevant Construction Noise Permit. The Contractor of HY/2010/08 was also reminded to maintain regular maintenance of the plant and equipment deployed to avoid potential nuisance to the nearby public.	
EPD Ref: H05/RS/0002 9722-16 dated 22 November 2016	15 Nov 2016	A public complaint referred by EPD received by ET on 22 November 2016	Construction Site near Wanchai Ferry Pier	Noise was emanated in the Chun Wo – CRGLJV construction site near Wanchai Ferry Pier till late night and caused nuisance to nearby sensitive receivers.	An EPD complaint regarding noise nuisance referred by EPD was received by ET on 22 November 2016 (EPD Ref: H05/RS/00029722-16 dated 22 November 2016). The complainant reported that noise was emanated in the Chun Wo – CRGLJV construction site near Wanchai Ferry Pier till late night and caused nuisance to nearby sensitive receivers.	Interim investigation report submitted to EPD on 29 November 2016.
					ET confirmed with the Resident Site Staff that Excavation works at Portion 5 was conducted under Contract HK/2009/02 at Portion 5 area (West of Wan Chai Ferry Pier) from 1900hrs to 2300hrs on 14 November 2016. Total two crawler cranes, two excavators and two generators were operated at ground level and four excavators were operated below ground level. No construction activity was conducted under Contract HK/2009/02 from 2300hrs on 14 November 2016 to 0700hrs on 15 November 2016. Total two generators were operated at ground level for lighting illumination of Portion 5.	



Date of omplaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
				According to information provided by RSS, excavation works at Portion 5 was conducted under Contract HK/2009/02 at Portion 5 area (West of Wan Chai Ferry Pier) from 1900hrs to 2300hrs on 14 November 2016. Total two crawler cranes and two excavators were operated at ground level and four excavators were operated below ground level. Two generators were operated at ground level. Based on review on site information, relevant Construction Noise Permits GW-RS0593-15 for the above construction activities and above operation of the generators were confirmed in place. No construction activity was conducted under Contract HK/2009/02 from 2300hrs on 14 November 2016 to 0700hrs on 15 November 2016 and two generators were operated at ground level for lighting illumination of Portion 5. In view of the public concern, the Contractor of HK/2009/02 confirmed that the two generators for lighting power supply at ground level at Portion 5 area since 23 November 2016 to minimize the noise impact to the surroundings. In addition, the Contractor of HK/2009/02 was reminded to upkeep the site control system for construction works carried out during restricted hours and night time for Construction Noise Permit compliance and maintain regular maintenance of the plant and equipment deployed to avoid potential nuisance to the nearby public. Also, the Contractor of HK/2009/02 was recommended to review the enhancement noise mitigation measure to be adopted for the generators deployed at ground level before 2300hrs to alleviate potential noise concern to the surroundings.	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
EPD ref: H08/RS/0003 0890-16 dated 07 December 2016	24 Nov 2016	A public complaint referred by EPD received by ET on 07 December 2016	Construction Site at Victoria Park	Noise emanated from the construction site at Victoria Park after 1900hrs.	A public complaint referred by EPD was received by ET on 07 December 2016 (Case Ref.: H08/RS/00030890-16). The complainant reported that Noise was emanated in the construction site near Victoria Park after 19:00 and caused nuisance to nearby sensitive receivers on 24 November 2016. ET confirmed with the Resident Site Staff that welding works for the tie-rod for the vertical blinding concrete was undertaken by the Contractor of HY/2010/08 at the construction site in the Victoria Park from 1900hrs to 2300hrs on 24 November 2016. Total 3 nos. of welding machines (electric), 3 nos. of water pumps (electric) and 1 no. of AquaSED were in operation. Based on the site records confirmed by RSS, welding works for the tie-rod for the vertical blinding concrete was undertaken by the Contractor of HY/2010/08 at the construction site in the Victoria Park from 1900hrs to 2300hrs on 24 November 2016. Total 3 nos. of welding machines (electric), 3 nos. of water pumps (electric) and 1 no. of AquaSED were in operation and relevant Construction Noise Permit GW-RS0930-16 was in place for the construction works conducted during the above concerned period. In addition, according to relevant site information confirmed by RSS, the welding machines, water pumps and AquaSED were connected to and powered by Hong Kong Electric power grid. Nevertheless, in view of the public concern, the Contractor of HY/2010/08 was reminded to maintain the site control system for construction works carried out during restricted hours to ensure the PMEs deployed are in compliance with relevant Construction Noise Permit. The Contractor of HY/2010/08 was also reminded to maintain regular maintenance of the plant and equipment deployed to avoid potential nuisance to the nearby public.	Investigation report submitted to EPD on 16 December 2016. Under EPD review



EFD complaint referred by 201710 January 2017A public complaint referred by EPD received January 2017Causeway Bay Typhoon Shelter and 2017Construction work at the reclamenton site in Causeway Bay Typhoon Shelter area (Under the Isiand Eastern Cortidor) was found after1900hrs on to January 2017A public complaint referred by EPD received by ET on 16 January 2017Interim investigation on 03 EPD neceived by ET on 16 January 2017Interim resultInterim investigation causeway Bay Typhoon Shelter area (Under the Isiand Eastern Cortidor) was found after1900hrs on to January 2017. The complainant reported to anoury 2017 with the Resident Site Staff that concrete pump and around 10 concrete lory mixers and around 10 concrete lory Mixers and concrete Pumps and 2017. Total 3 no so: d Lory Mounted Concrete Pumps and 4 nos. of the operating Lory Mounted Concrete Lory Mixers was at stand-by within TS3 Works area.Line Line Line Line Line Line Line Line	Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
	EPD complaint H08/RS/000 01175-17 dated 16 January	January	A public complaint referred by EPD received by ET on 16		reclamation site in Causeway Bay Typhoon Shelter area (Under the Island Eastern Corridor) was found after1900hrs on 10 January 2017 and the concrete lorry mixer and concrete pump may not comply with the	by ET on 16 January 2017 (Case Ref.: H08/RS/00001175-17). The complainant reported that construction work at the reclamation site in Causeway Bay Typhoon Shelter area (Under the Island Eastern Corridor) was found after 1900hrs on 10 January 2017. The complainant reported that there were 3 concrete pumps and around 10 concrete lorry mixers operating at the above site during the said period which may not comply with the Construction Noise Permit. ET confirmed with the Resident Site Staff that concreting of tunnel structure was conducted under Contract HY/2010/08 at Temporary Reclamation Area TS3 between 1900hrs and 2000hrs on 10 January 2017. Total 3 nos. of Lorry Mounted Concrete Pumps and 6 nos. of Concrete Lorry Mixers were operated at TS3 while temporary noise barrier was provided for 2 nos. of the operating Lorry Mounted Concrete Pumps and 4 nos. of the operating Concrete Lorry Mixers. Total 1 no. of Concrete Lorry Mixer was at stand-by within TS3 Works area. Concreting of tunnel structure was conducted under Contract HY/2010/08 at Temporary Reclamation Area TS3 between 2000hrs and 2030hrs 10 January 2017.Total 2 nos. of Lorry Mounted Concrete Pump and 4 nos. of Concrete Lorry Mixers were operated at TS3 while temporary noise barrier was provided for 1 no. of the operating Lorry Mounted Concrete Pump and 2 nos. of the operating Concrete Pumps and 2 nos. of the operating Concrete Lorry Mixers. Total 1 no. of Concrete Lorry Mixer was at stand-	investigation report submitted to EPD on 03 February



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					Concreting of tunnel structure was conducted under Contract HY/2010/08 at Temporary Reclamation Area TS3 between 2030hrs and 2300hrs 10 January 2017. Total 1 no. of Lorry Mounted Concrete Pump and 2 nos. of Concrete Lorry Mixers were operated at TS3.	
					Based on the site records confirmed by RSS, concreting of tunnel structure was conducted under Contract HY/2010/08 at Temporary Reclamation Area TS3 between 1900hrs and 2300hrs on 10 January 2017. From 1900hrs to 2000hrs, total 3 nos. of Lorry Mounted Concrete Pumps and 6 nos. of Concrete Lorry Mixers while temporary noise barrier was provided for 2 nos. of the operating Lorry Mounted Concrete Pumps and 4 nos. of the operating Concrete Lorry Mixers. Total 1 no. of Concrete Lorry Mixer was at standby within TS3 Works area.	
					From 2000hrs to 2030hrs, total 2 nos. of Lorry Mounted Concrete Pump and 4 nos. of Concrete Lorry Mixers were operated at TS3 while temporary noise barrier was provided for 1 no. of the operating Lorry Mounted Concrete Pumps and 2 nos. of the operating Concrete Lorry Mixers. Total 1 no. of Concrete Lorry Mixer was at stand- by within TS3 Works area.	
					From 2030hrs to 2300hrs, total 1 no. of Lorry Mounted Concrete Pump and 2 nos. of Concrete Lorry Mixers were operated at TS3.	
					Relevant Construction Noise Permit GW-RS1232- 16 (Corresponding PME Groups operated include Group M, Group K and Group H) was in place for the construction works conducted during the above concerned periods and based on RSS information, a designated personnel on-site was responsible for controlling and supervising the switching between PME Groups. Meanwhile, there	



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				is no sufficient information to conclude if the concerned PME(s) (Concrete Lorry Mixer and Lorry Mounted Concrete Pump) deployed behind the temporary noise barrier provided were not visible to nearby sensitive receivers.	
				As multiple PME grouping under the Construction Noise Permit are involved, the Contractor of HY/2010/08 was reminded to strictly follow the site control system for construction works carried out during restricted hours to ensure the PMEs deployed are in strict compliance with relevant Construction Noise Permit. The Contractor of HY/2010/08 was also reminded to maintain regular maintenance of the plant and equipment deployed to avoid potential nuisance to the nearby public.	
22 Dec 2016	ICC complaint case referred by RSS received by ET on 18 January 2017	Construction Site Gate Exit near Expo Drive East	No wheel washing from CEDD work site, no supervision from the Resident Site Staff, mud was dispersed on the road and flush to the communal drain by Chun Wo-China Railway JV HK/2009/02.	A public complaint regarding the subject matter on wheel washing referred by RSS was received by ET on 18 January 2017 (ICC Ref: #2- 3218844776). The complainant reported that no wheel washing from CEDD work site, no supervision from the Resident Site Staff, mud was dispersed on the road and flush to the communal drain by Chun Wo-China Railway JV HK/2009/02. ET confirmed with the Resident Site Staff that the concerned location was Site Exit Gate No. 6 at Expo Drive East operated and maintained under HK/2009/02 on 22 December 2016. Site measures including provision of wheel washing facility was implemented by the Contractor of HK/2009/02 on the concerned date. According to information provided by RSS, the concerned location was Site Exit Gate No. 6 at Expo Drive East operated and maintained under HK/2009/02 on 22 December 2016. In view of the environmental concern, remedial measures	Final investigation report issued on 23 January 2017.
	Complaint 22 Dec	Complaintand Received By22 Dec 2016ICC complaint case referred by RSS received by ET on 18 January	Complaintand Received ByComplainantImage: Complaint of the second sec	Complaintand Received ByComplainant22 Dec 2016ICC complaint case referred by RSS received by ET on 18 January 2017Construction Site Gate Exit near Expo Drive EastNo wheel washing from CEDD work site, no supervision from the Resident Site Staff, mud was dispersed on the road and flush to the communal drain by Chun Wo-China	Complaintand Received ByComplainantImage: ComplaintImage: Complaint ComplaintImage: Complaint Co



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					washing within the designated location with collection pit to prevent overflow of washing effluent and ii) manual removal of dirt/silt by worker instead of water flushing in case of dirt/muddy trail found on road were implemented by the Contractor on 28 December 2016. Also, the Contractor of HK/2009/02 was further reminded by the WDII RSS to maintain proper wheel washing facilities at Gate No.6 and inspect regularly to ensure that all vehicles leaving the site to public roads are free of mud. Nevertheless, the Environmental Team further reminded the Contractor on 04 January 2017 that site measures including i) wheel washing operation shall be conducted at the designated location behind the backfall to avoid overflow of washing effluent onto public road ii) any silt/ soil deposited of the public road shall be cleared manually shall be strictly followed and relevant remedial actions were taken by the Contractor of HK/2009/02 on 04 January 2017. According to site inspection conducted on 17 January 2017, the concerned site exit Gate No.6 was maintained in proper condition, no silt/ mud deposition was observed on the public road and wheel washing was conducted by the Contractor of HK/2009/02 at the designated location within the construction site to avoid overflow of washing effluent onto nearby public road.	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
ICC complaint case (Ref: #2- 351203393 6) dated 20 February 2017	20 February 2017	ICC complaint case referred by RSS received by ET on 24 February 2017	Victoria Park Swimming Pool	Noise was emanated from the construction site near Victoria Park Swimming Pool between 2300hrs to 2400hrs in the past months and caused nuisance.	An ICC complaint referred by RSS was received by ET on 24 February 2017 (CASE#2-3512033936). The complainant reported that noise was emanated from the construction site near Victoria Park Swimming Pool between 2300hrs to 2400hrs in the past months and caused nuisance. ET confirmed with the Resident Site Staff that no works was conducted under Contract HY/2010/08 near Victoria Park Swimming Pool (Hing Fat Street) during the restricted hours (from 1900hrs to 0700hrs on the following day) from 21 December 2016 to 20 February 2017. No works was conducted under Contract HY/2010/08near Victoria Park Swimming Pool (Hing Fat Street) during the restricted hours (from 1900hrs to 0700hrs on the following day) from 21 December 2016 to 20 February 2017. Nevertheless, in view of the public concern, the Contractor of HY/2010/08 was reminded to maintain the site control system for construction works carried out during restricted hours to ensure the PMEs deployed are in compliance with relevant Construction Noise Permit. The Contractor of HY/2010/08 was also reminded to maintain regular maintenance of the plant and equipment deployed to avoid potential nuisance to the nearby public.	Final Investigation Report issued on 02 March 2017 and case closed.



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
ICC complaint case (Ref: #2- 351547483 1) dated 21 February 2017	21 February 2017	ICC complaint case referred by RSS received by ET on 24 February 2017	Construction Site near Victoria Park Swimming Park and Causeway Bay Typhoon Shelter	Noise was emanated from the construction site near Victoria Park Swimming Pool between 2300hrs to 2400hrs in the past months and caused nuisance.	An ICC complaint referred by RSS was received by ET on 24 February 2017 (CASE#2-3515474831). The complainant reported that noise was emanated from the construction site near Victoria Park Swimming Pool and Causeway Bay Typhoon Shelter between 1900hrs to 2400hrs in the past months and caused nuisance.	Final Investigation Report issued on 07 March 2017 and case closed.
					concreting of tunnel structure at Temporary Reclamation Area TS3 were conducted under Contract HY/2010/08 between 1900hrs and 2300hrs on 13, 14, 15, 16 and 18 February 2017. Total 3 nos. of concrete pump and 6 nos. of concrete lorry mixers were operated.	
				Concreting of tunnel structure at Temporary Reclamation Area TS3 were conducted under Contract HY/2010/08 between 1900hrs and 2100hrs on 21 February 2017. Total 3 nos. of concrete pump and 6 nos. of concrete lorry mixers were operated. Concreting of tunnel structure at		
					Zone C was conducted under Contract HY/2010/08 between 1900hrs to 2300hrs on 17 and 20 February 2017. Total 1 no. of concrete pump and 2 nos. of concrete mixers were operated. Bar bending at Zone C was conducted under Contract HY/2010/08 between 1900hrs to 2300hrs on 13,	
					14, 15, 16, 18 and 19 February 2017. Total 1 no. bar bender and cutter was operated. No works was conducted under Contract HY/2010/08 near Victoria Park Swimming Pool (Hing Fat Street) during the restricted hours (from 1900hrs to 0700hrs on the following day) across the period	
					from 13 February 2017 to 21 February 2017. Based on the site records confirmed by RSS, no works was conducted under Contract HY/2010/08	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					near Victoria Park Swimming Pool (Hing Fat Street) during the restricted hours (from 1900hrs to 0700hrs on the following day) from 13 February 2017 to 20 February 2017. Concreting of tunnel structure at Temporary Reclamation Area TS3 was conducted under Contract HY/2010/08 between 1900hrs and 2300hrs on 13, 14, 15, 16 and 18 February 2017 and total 3 nos. of concrete pumps and 6 nos. of concrete lorry mixers were operated. Concreting of tunnel structure at Temporary Reclamation Area TS3 were conducted under Contract HY/2010/08 between 1900hrs and 2100hrs on 21 February 2017 and total 3 nos. of concrete pump and 6 nos. of concrete lorry mixers were operated. Relevant Construction Noise Permit GW-RS0029-17 was in place while it is considered that there is no sufficient information to indicate whether the Powered Mechanical Equipment were deployed at the designed location stipulated under the relevant Construction Noise Permit with noise mitigation measures required.	
					Concreting of tunnel structure at Zone C was conducted under Contract HY/2010/08 between 1900hrs to 2300hrs on 17 and 20 February 2017. Total 1 no. of concrete pump and 2 nos. concrete mixers were operated. Bar bending at Zone C was conducted under Contract HY/2010/08 between 1900hrs to 2300hrs on 13, 14, 15, 16, 18 and 19 February 2017 and total 1 no. bar bender and cutter was operated. Relevant Construction Noise Permit GW-RS1366-13 was in place while it is considered that there is no sufficient information to indicate whether the Powered Mechanical Equipment were deployed at the designed location stipulated under the relevant Construction Noise Permit with noise mitigation measures required.	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					Nevertheless, further to the joint ad-hoc inspection conducted by the ET/IEC on 13 February 2017 during restricted hours (between 1900hrs to 2200hrs), concurrent operations of 4 nos. of concrete lorry trucks at the Southern Side of TS3 near Construction Site Entrance and concurrent operations of 2 nos. of concrete lorry pumps and 2 nos. of concrete lorry truck at Western and Northern Side of TS3 were observed while the temporary noise barrier provided for the concrete lorry pump and concrete lorry truck at the Northern Side of TS3 could not screen entirely the concrete lorry truck and concrete lorry pump (Located at Northern Side of TS3) from nearby sensitive receivers. Therefore, it is considered that the above operations observed could not follow the PME grouping requirement and the specific condition 3.d.4 under the relevant Construction Noise Permit. In view of the above, the Contractor of HY/2010/08 was advised to enhance the site supervision and strictly implement the site control system for construction works carried out during restricted hours to ensure the PMEs deployed strictly comply with relevant Construction Noise Permit. The Contractor of HY/2010/08 was also reminded to maintain regular maintenance of the plant and equipment deployed to avoid potential nuisance to the nearby public.	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
				Nature of Complaint Noise was emanated from the construction Site at Victoria Harbour near Victoria Park from 0000hrs to 0200hrs on Tuesday and caused nuisance and Concrete Lorry was observed on scene.	OutcomeAn ICC complaint referred by RSS was received by ET on 27 February 2017 (CASE#2-3521097579). The complainant reported that noise was emanated from the construction Site at Victoria Harbour near Victoria Park from 0000hrs to 0200hrs on Tuesday and caused nuisance and Concrete Lorry was observed on scene.ET confirmed with the Resident Site Staff that no construction work was conducted under HY/2010/08 at Zone C (Victoria Park Road) and Temporary Reclamation Area Zone between 0000hrs to 0200hrs on 21 February 2017 and between 0000hrs to 0200hrs on 22 February 2017. No construction work was conducted under HY/2010/08 at Zone C (Victoria Park Road) and Temporary Reclamation Area Zone between 0000hrs to 0200hrs on 21 February 2017. No construction work was conducted under HY/2010/08 at Zone C (Victoria Park Road) and Temporary Reclamation Area Zone between 0000hrs to 0200hrs on 21 February 2017.	Status Final Investigation Report issued on 02 March 2017 and case closed.
					Nevertheless, in view of the public concern, the Contractor of HY/2010/08 was reminded to maintain the site control system for construction works carried out during restricted hours to ensure the PMEs deployed are in compliance with relevant Construction Noise Permit. The Contractor of HY/2010/08 was also reminded to maintain regular maintenance of the plant and equipment deployed to avoid potential nuisance to the nearby public.	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
				Nature of Complaint Noise was emanated from the construction works under Contract HK/2009/02 for Wanchai Development Phase II on 05 March 2017 and potential violation of ordinance was suspected.	Outcome           An ICC complaint referred by RSS was received by ET on 06 March 2017 (CASE#2-3576157538). The complainant reported that noise was emanated from the construction works under Contract HK/2009/02 for Wanchai Development Phase II on 05 March 2017 and potential violation of ordinance was suspected.           ET confirmed with the Resident Site Staff that no works was conducted under Contract HK/2009/02 from 0000hrs to 0830hrs on 05 March 2017. Removal ELS waling at Portion 5 (West of WanChai Ferry Pier) was conducted under Contract HK/2009/02 from 0830hrs to 1700hrs on 05 March 2017. Total 2 nos. of crawler cranes were in operation at ground level.           Tunnel backfilling and construction of temporary walls at Portions 3&4 (Near Wan Shing Street) were conducted under Contract HK/2009/02 from 0830hrs to 1700hrs. Total 1 no. of excavator and 1 no. of dump truck were in operation at ground level and 2 nos. of excavator and 1 no. of loader were in operation below ground level.           According to the information confirmed by RSS, no works was conducted under Contract HK/2009/02 from 0000hrs to 0830hrs on 05 March 2017. Removal ELS waling at Portion 5 (West of WanChai Ferry Pier) was conducted under	Status Investigation report issued on 10 March 2017 and case closed.
					Contract HK/2009/02 from 0830hrs to 1700hrs on 05 March 2017. Total 2 nos. of crawler cranes were in operation at ground level. Tunnel backfilling and	
					construction of temporary walls at Portions 3&4 (Near Wan Shing Street) were conducted under Contract HK/2009/02 from 0830hrs to 1700hrs. Total 1 no. of excavator and 1 no. of dump truck were in operation at ground level and 2 nos. of	
					excavator and 1 loader were in operation below	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					ground level. Relevant Construction Noise Permit GW-RS1305-16 was in place.	
					Nevertheless, in view of the public concern, the Contractor of HK/2009/02 was reminded to maintain the site control system for construction works carried out during restricted hours to ensure the PMEs deployed are in compliance with relevant Construction Noise Permit. The Contractor of HK/2009/02 was also reminded to maintain regular maintenance of the plant and equipment deployed to avoid potential nuisance to the nearby public.	
EPD complaint (Case Ref: H05/RS/00 06240-17)	05 March 2017	EPD complaint referred by RSS was received by ET on 14 March 2017. EPD clarified the complaint case shall be was referred by ICC Complaint Hotline (CASE #2- 3576157538)	Construction works area under Contract HK/2009/02 for Wanchai Development Phase II	Noise was emanated from the construction works under Contract HK/2009/02 for Wanchai Development Phase II on 05 March 2017 and potential violation of ordinance was suspected.	A EPD complaint was referred to the ET on 14 March 2017 (CASE Ref: H05/RS/0006240-17). The complainant reported that noise was emanated from the construction works under Contract HK/2009/02 for Wanchai Development Phase II on 05 March 2017 and potential violation of ordinance was suspected. ET confirmed with the Resident Site Staff that no works was conducted under Contract HK/2009/02 from 0000hrs to 0830hrs on 05 March 2017. Removal ELS waling at Portion 5 (West of WanChai Ferry Pier) was conducted under Contract HK/2009/02 from 0830hrs to 1700hrs on 05 March 2017. Total 2 nos. of crawler cranes were in operation at ground level. Tunnel backfilling and construction of temporary walls at Portions 3&4 (Near Wan Shing Street) were conducted under Contract HK/2009/02 from 0830hrs to 1700hrs. Total 1 no. of excavator and 1 no. of dump truck were in operation at ground level and 2 nos. of excavator and 1 no. of loader were in operation below ground level.	Interim Investigation report issued on 10 March 2017 and case closed. EPD advised no comment on 09 Oct 2017 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
					According to the information confirmed by RSS, no works was conducted under Contract HK/2009/02 from 0000hrs to 0830hrs on 05 March 2017. Removal ELS waling at Portion 5 (West of WanChai Ferry Pier) was conducted under Contract HK/2009/02 from 0830hrs to 1700hrs on 05 March 2017. Total 2 nos. of crawler cranes were in operation at ground level. Tunnel backfilling and construction of temporary walls at Portions 3&4 (Near Wan Shing Street) were conducted under Contract HK/2009/02 from 0830hrs to 1700hrs. Total 1 no. of excavator and 1 no. of dump truck were in operation at ground level and 2 nos. of excavator and 1 loader were in operation below ground level. Relevant Construction Noise Permit GW-RS1305-16 was in place. Nevertheless, in view of the public concern, the Contractor of HK/2009/02 was reminded to maintain the site control system for construction works carried out during restricted hours to ensure the PMEs deployed are in compliance with relevant Construction Noise Permit. The Contractor of HK/2009/02 was also reminded to maintain regular maintenance of the plant and equipment deployed	
ICC complaint Case (CASE#2- 360318289 0) dated 10 March 2017	10 March 2017	An ICC complaint referred by RSS was received by ET on 13 March 2017	Construction Site at Victoria Park	Noise was emanated from the construction Site at Victoria Park from 2300hrs to 2400hrs on 10 March 2017 and caused nuisance to nearby residents.	<ul> <li>to avoid potential nuisance to the nearby public.</li> <li>An ICC complaint referred by RSS was received by ET on 13 March 2017 (CASE#2-3603182890). The complainant reported that noise was emanated from the construction Site at Victoria Park from 2300hrs to 2400hrs on 10 March 2017 and caused nuisance to nearby residents.</li> <li>ET confirmed with the Resident Site Staff that no construction work was conducted under Contract HY/2010/08 at Victoria Park at from 2300hrs to 2400hrs on 10 March 2017.</li> </ul>	Investigation Report issued on 15 March 2017 and case closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					Based on the information provided by the RSS, no construction work was conducted under Contract HY/2010/08 at Victoria Park at from 2300hrs to 2400hrs on 10 March 2017.	
					Nevertheless, in view of the public concern, the Contractor of HY/2010/08 was reminded to maintain the site control system for construction works carried out during restricted hours to ensure the PMEs deployed are in compliance with relevant Construction Noise Permit. The Contractor of HY/2010/08 was also reminded to maintain regular maintenance of the plant and equipment deployed to avoid potential nuisance to the nearby public.	
EPD complaint Case (CASE Ref: H05/RS/00 014415- 17(14448- 17) dated 18 May 2017	11 May 2017	An EPD complaint referred to ET on 18 May 2017	Construction Site under Contract HK/2009/02	Construction work was found on 10 May 2017 (~03:52) that caused noise nuisance. According to the information provided by the IEC on 11 May 2017 and 15 May 2017, it was alleged that the concreting work under Contract No. HK/2009/02 was carried out for the Central-Wan Chai Bypass Top Slab Bay 6 during night time on 09 May 2017 and early morning on 10 May 2017 (between 11:00pm on 09 May 2017 and about 04:00 a.m. on 10 May 2017) with 3 pump trucks, 10 vibrating pokers, 9 concrete trucks and 2 generators in operation.	An EPD complaint was referred to the ET on 18 May 2017 (CASE Ref: H05/RS/00014415- 17(14448-17). The complainant reported that: Construction work was found on 10 May 2017 (~03:52) that caused noise nuisance. According to the photos provided by the complainant lorry mounted concrete pump were used. According to the information provided by the IEC on 11 May 2017 and 15 May 2017, it was alleged that the concreting work under Contract No. HK/2009/02 was carried out for the Central-Wan Chai Bypass Top Slab Bay 6 during night time on 09 May 2017 and early morning on 10 May 2017 (between 11:00pm on 09 May 2017 and about 04:00 a.m. on 10 May 2017) with 3 pump trucks, 10 vibrating pokers, 9 concrete trucks and 2 generators in operation. The concreting works under Contract No. CEDD HK/2009/02 was also carried out for the Central – Wan Chai Bypass Bay 10A OHVS Slab after 23:00 on 12 May 2017 (after 23:00) with 1 Pump truck, 2 vibrating pokers, 1 concrete trucks and 3 generators in operation.	Interim Investigation report submitted to EPD on 26 May 2017. EPD advised no comment on 09 Oct 2017 on the interim report submitted and case closed



Complaint Date o Log No. Complai	Location of Complainant	Nature of Complaint	Outcome	Status
		Nature of Complaint The concreting works under Contract No. CEDD HK/2009/02 was also carried out for the Central – Wan Chai Bypass Bay 10A OHVS Slab after 23:00 on 12 May 2017 (after 23:00) with 1 Pump truck, 2 vibrating pokers, 1 concrete trucks and 3 generators in operation.	Outcome ET confirmed with the Resident Site Staff that 10 nos. of vibratory pokers, 3 nos. of concrete pump trucks and 3 nos. of generators were in operation at Tunnel Portion 5, Top Slab 6 from 2300hrs on 09 May 2017 to 0408hrs on 10 May 2017 while 9 nos. of concrete trucks were in operation at around 0320hrs on 10 May 2017. 2 nos. of vibratory pokers, 1 no. of concrete truck, 1 no. of concrete pump truck, and 3 nos. of generators were in operation at Tunnel Portion 5, Top Slab 6 from 2300hrs on 12 May 2017 to 2340hrs on 12 May 2017. According to the RSS site information, 10 nos. of vibratory pokers, 3 nos. of concrete pump trucks and 3 nos. of generator were in operation at Tunnel Portion 5, Top Slab 6 from 2300hrs on 09 May 2017 to 0408hrs on 10 May 2017 while 9 nos. of concrete trucks were in operation at around 0320hrs on 10 May 2017 and the above construction operations could not comply with the item 3a - PME requirement under the Construction Noise Permit GW-RS1297-16. In response to the information provided by the RSS/ IEC on 11 May 2017, ad-hoc inspection was conducted by the Environmental Team on 13 May 2017 around 00:40 hrs. No construction operation and no PME deployment was observed at the time of inspection. According to the RSS site information, 2 nos. of vibratory pokers, 1 no. of concrete pump truck, and 3 nos. of generators were in operation at Tunnel Portion 5, Top Slab 6 from 2300hrs on 12 May 2017 to 2340hrs on 12 May 2017 and could not	Status
			comply with the item 3a - PME requirement under Construction Noise Permit GW-RS1297-16. In response to the information provided by the RSS/ IEC on 15 May 2017, ad-hoc inspection was	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					<ul> <li>2017 around 22:20hrs. 2 nos. of concrete truck, 1 no. of concrete pump tuck were observed in operation at the time of inspection and relevant CNP GW-RS0334-17 was in place.</li> <li>Notwithstanding the above, in view of the identified non-conformance, the Contractor of HK/2009/02 was requested to implement the following rectification measures to ensure the strict construction noise permit compliance including i) fully review Construction Noise Permit in force and the tentative construction operations to ensure the strict construction Noise Permit compliance under Noise Control Ordinance, ii) fully review the site control system for construction works carried out during restricted hours to ensure the PMEs deployed are in compliance with relevant Construction sequence and schedule to ensure the construction operations and PME are operated in accordance to relevant Construction Noise Period within the specified allowable period. The Contractor of HK/2009/02 is also recommended to provide briefing and training section to site staffs to enhance the site awareness and understanding on relevant construction noise permit(s) requirement during restricted hours.</li> <li>The ET/IEC/RSS will maintain ad hoc checking on the construction operations under Contract HK/2009/02 during restricted hours and report relevant findings, if any, accordingly.</li> </ul>	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
EPD complaint Case (CASE Ref: N/A) dated 23 May 2017	23 May 2017	An EPD complaint referred to ET on 25 May 2017	Construction Site under Contract HK/2009/02	Concreting works under Contract No. CEDD HK/2009/02 was carried out with crawler cranes, 10-12 vibratory pokers, and 7 concrete lorry mixers in the morning on 21 May 2017 without a valid CNP. Also, at 15:30 on 21 May 2017, 9 vibratory pokers and 7 concrete lorry mixers were observed in operation. These works were suspected to contravene the Noise Control Ordinance (NCO).	An EPD complaint was referred to the ET on 25 May 2017 (CASE Ref: N/A). The complainant reported that concreting works under Contract No. CEDD HK/2009/02 was carried out with crawler cranes, 10-12 vibratory pokers, and 7 concrete lorry mixers in the morning on 21 May 2017 without a valid CNP. Also, at 15:30 on 21 May 2017, 9 vibratory pokers and 7 concrete lorry mixers were observed in operation. These works were suspected to contravene the Noise Control Ordinance (NCO). ET confirmed with the Resident Site Staff that 12 nos. of vibratory pokers were operated at Tunnel Portion 5 from 0730hrs to 1740hrs on 21 May 2017. 3 nos. of crawler cranes were operated at Tunnel Portion 5 from 0800hrs to 0915hrs on 21 May 2017. 3 nos. of crawler cranes were operated at Tunnel Portion 5 from 0915hrs to 1030hrs on 21 May 2017. 4 nos. of concrete pump trucks were operated at Tunnel Portion 5 from 0750hrs to 1650hrs on 21 May 2017. 4 nos. of generators were operated at Tunnel Portion 5 from 0730hrs to 1740hrs on 21 May 2017. 7 nos. of concreting trucks were operated at intervals between the time period of 0730hrs to 1740hrs on 21 May 2017. According to the RSS site information, the following PMEs were operated at Tunnel Portion 5 from 0915hrs to 1030hrs to 1740hrs; ii) 3 nos. of crawler cranes were operated at Tunnel Portion 5 from 0730hrs to 1740hrs; iii) 3 nos. of crawler cranes were operated at Tunnel Portion 5 from 0730hrs to 1740hrs; iii) 3 nos. of crawler cranes were operated at Tunnel Portion 5 from 0730hrs to 1740hrs; iii) 3 nos. of crawler cranes were operated at Tunnel Portion 5 from 0730hrs to 1650hrs; v) 4 nos. of generators were operated at Tunnel Portion 5 from 0915hrs to 1030hrs on 21 May 2017; iv) 4 nos. of generators were operated at Tunnel Portion 5 from 0730hrs to 1740hrs ;) 7 nos. of concreting trucks were	Investigation report submitted to EPD on 02 June 2017. EPD advised no comment on 09 Oct 2017 on the interim report submitted and case closed



Complaint Date Log No. Comp	 Location of Complainant	Nature of Complaint	Outcome	Status
			operated at intervals between the time period of 0730hrs to 1740hrs on 21 May 2017 and the above construction operations could not comply with the item 3a - PME requirement under the Construction Noise Permit GW-RS334-17.	
			EPD notification on the cancellation of the Construction Noise Permits GW-RS0334-17 and Construction Noise Permit GW-RS1297-16 was received by the Environmental Team on 26 May 2017. Ad hoc inspection was conducted by the Environmental Team on 26 May 2017 around 2230hrs and on 28 May 2017 around 1520hrs and no construction works and no operation of PME was observed at the concerned site Portion 5 at the time of inspections. Notwithstanding the above, in view of the identified non-conformance, the Contractor of HK/2009/02 was requested to implement the following rectification measures to ensure the strict construction noise permit compliance including i) fully review Construction Noise Permit in force and the tentative construction operations to ensure the strict Construction Noise Permit compliance under Noise Control Ordinance, ii) fully review the site control system for construction works carried out during restricted hours to ensure the PMEs deployed are in compliance with relevant Construction Noise Permit and iii) review the construction sequence and schedule to ensure the construction sequence and schedule to provide briefing and training section to site staffs to enhance the site awareness and understanding on relevant construction noise permit(s) requirement during restricted hours.	



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EPD complaint Case (CASE Ref: H05/RS/00 021311-17) dated 13 July 2017	07 July 2017	EPD complaint referred to ET on 13 July 2017	Construction site near Renaissance Hong Kong Harbour View Hotel	Construction work from a construction site near Renaissance Hong Kong Harbour View Hotel was found around 2315 hrs on 26 June 2017, causing noise nuisance.	An EPD complaint was referred to the ET on 13 July 2017 (CASE Ref: H05/RS/00021311-17). The complainant reported that construction work from a construction site near Renaissance Hong Kong Harbour View Hotel was found around 2315 hrs on 26 June 2017, causing noise nuisance. ET confirmed with the Resident Site Staff that Manual re-bar fixing works was carried out under Contract HK/2009/02 from 2300hrs to 2330hrs on 26 June 2017 at Portion 5 Bay 15 (Non - Designated Area) top slab area adjacent to the covered walkway of the Wan Chai Ferry Pier. 1 no. of generator was operated at ground level and 2 nos. of generators were operated below ground level from 2300hrs to 2400hrs on 26 June 2017. In addition 16 electric water pump were operated below ground level from 2300hrs to 2400hrs on 26 June 2017. Notwithstanding the information stated in above item 1), according to relevant Resident Site Staff site record, it was recorded that 1 no. of mobile crane and 1 no. of bar bender were deployed and operated at Portion 5 area (West of Wan Chai Ferry Pier) under Contract HK/2009/02 after 2300hrs on 26 July 2017. Upon warning given by WDII Resident Site staff to the Contractor of HK/2009/02, the operation of crawler crane for lifting rebar and operation of bar bender machine were suspended at around 2315hrs on 26 June 2017. No construction activity and site operation was carried out under Contract HK/2009/01 from 2300hrs to 2400hrs on 26 June 2017. According to the RSS site information, manual re- bar fixing works was carried out under Contract HK/2009/02 from 2300hrs to 2330hrs on 26 June 2017 at Portion 5 Bay 15 (Non - Designated Area)	Interim investigation report submitted to EPD on 21 July 2017. EPD advised no comment on 09 Oct 2017 on the interim report submitted and case closed



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					top slab area adjacent to the covered walkway of the Wan Chai Ferry Pier. 1 no. of generator was operated at ground level and 2 nos. of generators were operated below ground level from 2300hrs to 2400hrs on 26 June 2017 while 16 electric water pump were operated below ground level at Portion 5 Bay from 2300hrs to 2400hrs on 26 June 2017 and the relevant Construction Noise Permit GW- RS0527-17 for the above operation was in place. However, site record on the model of generators deployed on the concerned night was not available. Notwithstanding the above, according to relevant Resident Site Staff site record, it was recorded that 1 no. of mobile crane and 1 no. of bar bender machine were deployed and operated at Portion 5	
					area (West of Wan Chai Ferry Pier) under Contract HK/2009/02 after 2300hrs on 26 July 2017 without a valid Construction Noise Permit. Upon warning given by WDII Resident Site staff to the Contractor of HK/2009/02, the operation of crawler crane for lifting rebar and operation of bar bender machine were suspended at around 2315hrs on 26 June 2017. According to Contractor of HK/2009/02, the operation bar bender machine was suspended upon warning by RSS team and the operation of crawler crane was suspended upon moving to a proper location to avoid obstruction for next day work.	
					Meanwhile, no construction activity and site operation was carried out under Contract HK/2009/01 from 2300hrs to 2400hrs on 26 June 2017. In view of the above operation of powered mechanical equipment under Contract HK/2009/02 beyond 2300hrs, the Contractor of HK/2009/02 was required and urged to implement the following	



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					remedial measures to ensure the strict construction noise permit compliance including:-	
					Fully review the site control system for construction works carried out during restricted hours, in particular to ensure the frontline supervisors responsible for restricted hours construction operations are trained with comprehensive understanding on the requirement of the Construction Noise Permit in force to ensure the PMEs deployed are in compliance with relevant Construction Noise Permit.	
					To assign delegated and competent personnel on- site to conduct checking on the deployment of PMEs on-site prior and during restricted hours to ensure only PMEs allowed under relevant Construction Noise Permit would be operated.	
					In addition, the following preventive measures are also recommended including the Contractor of HK/2009/02 is recommended to provide regular briefing and training section to site staffs and frontline workers to enhance the workers awareness and understanding on relevant Construction Noise Permit(s) requirement during restricted hours.	
					The Contractor of HK/2009/02 is recommended to review the construction operation planning procedures to ensure relevant PME(s) required for conducting the planned operation to ensure required PME are adequate considered and covered by relevant Construction Noise Permit.	
					In view of the recent concern over restricted hours construction operations, a meeting was held amongst the CEDD, the RSS team, the Contractor of HK/2009/02 and the Environmental Team on 21 July 2017 to review the site control measures and enhancement measures to be adopted for restricted hours construction operations control for	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					Construction Noise Permit Compliance. A detailed implementation plan would be prepared by the Contractor of HK/2009/02 and further supplemented.	
EPD complaint Case (CASE Ref: H05/RS/00 022136-17) dated 17 July 2017 ICC complaint case (Ref: 2- 412202158 9) dated 14 July 2017	14 July 2017	EPD complaint referred to ET on 17 July 2017 ICC complaint referred to ET on 25 July 2017	Island Eastern Corridor near Provident Centre	Night time construction noise emanated from construction works conducted during early hours of 14 July 2017 at Island Eastern Corridor near Provident Centre.	<ul> <li>An EPD complaint was referred to the ET on 17 July 2017 (CASE Ref: H05/RS/00022136-17). The complainant reported that night time construction noise emanated from construction works conducted during early hours of 14 July 2017 at Island Eastern Corridor near Provident Centre.</li> <li>An ICC complaint case (Ref: 2-4122021589) was Referred to the ET on 25 July 2017. The complainant reported that the workers are now doing extremely noisy works at the Island Eastern Corridor near Provident Centre affecting the nearby residents.</li> <li>As the ICC complaint case refers to the noise concern at the same location at the same hours on the same date, hence the ICC case is considered as the same complaint case under the EPD complaint for investigation purpose.</li> <li>ET confirmed with the Resident Site Staff that emergency road repairing work including the repairing of movement joint at Pier 46 and three potholes along IEC Westbound was carried out under Contract HY/2009/19 around the concerned location from 0000hrs to 0600hrs on 14 July 2017. Total 1 no. of hand held breaker and 1 no. of hand held drill for grout mixing were operated.</li> <li>According to the RSS site information, emergency road repairing work including the repairing of movement joint at Pier 46 and three potholes along IEC Westbound was carried out under Contract HY/2009/19 around the concerned location from 0000hrs to 0600hrs on 14 July 2017. Total 1 no. of hand held breaker and 1 no. of hand held drill for grout mixing were operated.</li> </ul>	Interim report submitted to the EPD on 25 July 2017.



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
				Nature of Complaint	Outcome 0000hrs to 0600hrs on 14 July 2017. Total 1 no. of hand held breaker and 1 no. of hand held drill for grout mixing were operated. A written advance notification was issued to the EPD on 13 July 2017 regarding the aforesaid emergency road repairing works. In view of the public concern, the Contractor of HY/2009/19 is recommended to adopt additional noise mitigation measure for future emergency road repairing works, if any, at night time hours around the concerned location. In response to the public concern, the Contractor of HY/2009/19 would adopt the following additional measures for future emergency road repairing works including: i) For any emergency works requiring, for example, breaking or any other noisy activities, wherever possible, temporary noise barrier or acoustic mat will be use to fence of the line of sight between the noise emanating source and the NSR, ii) Covering breaking head with acoustic mat to minimize noise if breaking would be conducted and iii) complete noisy work as soon as possible to minimize disturbance to the nearby residents.	Status



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
EPD complaint Case (CASE Ref: H05/RS/00 022835-17) dated 21 July 2017	20 July 2017	EPD complaint referred to ET on 21 July 2017	Construction site near Renaissance Hong Kong Harbour View Hotel and Wanchai Pier	Mechanical noise was emanated from a construction site near Renaissance Hong Kong Harbour View Hotel and Wanchai Pier from late night till dawn recently, causing noise nuisance.	An EPD complaint was referred to the ET on 21 July 2017 (CASE Ref: H05/RS/00022835-17). The complainant reported that mechanical noise was emanated from a construction site near Renaissance Hong Kong Harbour View Hotel and Wanchai Pier from late night till dawn recently, causing noise nuisance. ET confirmed with the Resident Site Staff that unloading of fill material was conducted under Contract HK/2009/02 at WCR3 area (West of Wan Chai Ferry Pier) from 2300hrs on 19 July 2017 to 0540hrs on 20 July 2017. 1 no. of grab dredger was operated for the above construction works. No construction activities or site operation was conducted under Contract HK/2009/01 from 2300hrs on 19 July 2019 to 0700hrs on 20 July 2017. According to the RSS site information, unloading of fill material was conducted under Contract HK/2009/02 at WCR3 area (West of Wan Chai Ferry Pier) from 2300hrs on 19 July 2017 to 0540hrs on 20 July 2017. 1 no. of grab dredger was operated for the above construction works and relevant Construction Noise Permit GW-RS0348-17 was in place and noise barrier with surface mass density of not less than 5kg/m2 was provided to the power generating part of the grab dredger operated from 2300hrs on 19 July 2017 to 0540hrs on 20 July 2017. Meanwhile, no construction activities or site operation was conducted under Contract HK/2009/01 from 2300hrs on 19 July 2019 to 0700hrs on 20 July 2017.	Interim report submitted to EPD on 26 July 2017. EPD advised no comment on 09 Oct 2017 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
					control system for construction works carried out during restricted hours and night time for Construction Noise Permit compliance and maintain regular maintenance of the plant and equipment deployed to avoid potential nuisance to the nearby public.	
ICC complaint Case (CASE Ref: #2- 416246715 1) dated 25 July 2017	25 July 2017	ICC complaint referred to ET on 26 July 2017	CEDD Construction Site near Wanchai Ferry Pier	No watering system was provided to the excavation works conducted at a CEDD Construction Site near Wanchai Ferry Pier resulting in dust impact to the public area beyond site hoarding.	An ICC complaint was referred to the ET on 26 July 2017 (CASE Ref: #2-4162467151). The complainant reported that no watering system was provided to the excavation works conducted at a CEDD Construction Site near Wanchai Ferry Pier resulting in dust impact to the public area beyond site hoarding. ET confirmed with the Resident Site Staff that breaking works and backfilling works were conducted under Contract HK/2009/02 at the concerned location on 25 July 2017 afternoon. Dust mitigation measures including water spraying	Investigation report issued on 04 August 2017 and case closed.
					was implemented for the above construction activities on 25 July 2017 at the concerned location. According to the RSS site information, breaking works and backfilling works were conducted under Contract HK/2009/02 at the concerned location on 25 July 2017 afternoon while dust mitigation measures including water spraying was implemented for the above construction activities	
					on 25 July 2017 at the concerned location. During Environmental Team ad hoc inspection conducted on 26 July 2017, water spraying was found insufficient to mitigate the extended area of breaking operation and construction dust impact to surroundings public area was observed.	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					Subsequently, Contractor of HK/2009/02 was reminded to enhance the dust suppression measure for the dust generating works.	
					In response to the observed environmental concern, the Contractor of HK/2009/02 has strengthened the water spraying coverage to all breaking operation area and haul road to minimize the potential dust impact. Follow up inspection was conducted by Environmental Team on 27 July 2017 and no further dust impact was observed.	
EPD complaint Case (CASE Ref: N/A) dated 06 September 2017	24 August 2017	EPD complaint referred to ET on 06 September 2017	Portion 5 (West of Wanchai Ferry Pier) under Contract HK/2009/02	Site inspection record regarding improper dust suppression measure during excavation	EPD complaint regarding the inspection report issued by the EPD on 24 August 2017 on improper dust suppression measure during excavation was referred to the ET on 06 September 2017. As clarified with the EPD, the concerned location of the observation refers to Portion 5 (West of Wanchai Ferry Pier). ET confirmed with the Resident Site Staff that backfilling and compaction works were conducted under Contract HK/2009/02 for CWB Tunnel at the concerned location at Portion 5 (West of Wanchai Ferry Pier). According to RSS information, dust suppression measures including water spraying for stockpile stored on site was generally implemented by the Contractor of HK/2009/02 while it was observed and considered that the extent of water spraying was insufficient on 24 August 2017 at the aforesaid location.	Investigation report issued on 15 September 2017. EPD advised no comment on 09 Oct 2017 on the interim report submitted and case closed
					Follow up inspection was conducted by the Environmental Team on 08 September 2017. Concerned stockpile of dusty materials at the concerned location at Portion 5 was observed removed from site and mitigation measure including compaction and water spraying for exposed soil surface at Portion 5 were implemented and no particular dust impact was	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					observed at the concerned location at Portion 5. Subsequent follow up inspection was conducted by the Environmental Team on 11 September 2017. Exposed surface at construction site area Portion 5 was observed compacted and partially maintained in dampened condition. Despite no particular dust impact was observed, the Contractor of HK/2009/02 was further advised to review the site condition and adequately implement the following construction dust mitigation measures, as appropriate, to avoid potential dust impact to the surroundings:-	
					Exposed earth shall be properly treated by compaction, turfing, hydro seeding, vegetation planting or sealing with latex, vinyl, bitumen, shotcrete or other suitable surface stabilizer within 6 months after the last construction activity on the construction site or part of the construction site where the exposed earth lies to avoid potential dust impact; Stockpile of dusty materials, if any, shall be either covered entirely by impervious sheeting; or placed in an area sheltered on the top and the 3 sides; or sprayed with water or a dust suppression chemical so as to maintain the entire surface wet and; Construction site surface with dusty materials should be sprayed with water to maintain entire surface wet to avoid potential dust impact to the surroundings.	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
ICC complaint Case (CASE Ref: #2- 424207350 5) dated 18 September 2017	18 Septemb er 2017	ICC complaint referred to ET on 19 September 2017	A section of Island East Corridor opposite to Victoria Park	On recent Sundays during midnight hours, noise were emanated from road construction works and excavators for consecutive hours without any noise mitigation measures.	ICC complaint referred by RSS was received by ET on 19 September 2017 (CASE#2- 4242073505). The complainant reported that on recent Sundays during midnight hours, noise were emanated from road construction works and excavators for consecutive hours without any noise mitigation measures. ET confirmed with the Resident Site Staff that Reinstatement of movement joint at Island East Corridor Westbound Carriageway was conducted under Contract HY/2010/08 between 0000hrs to 0700hrs on 10 September 2017(Sunday) and 17 September 2017(Sunday). Powered Mechanical Equipment (PME) including 2 nos. of electric breakers, 2 nos. of portable generator, 1 no. of saw cut machine, 2 nos. of grab lorry, 1 no. of mini concrete mixer, 1 no. of welding set and 1 no. of poker vibrator were deployed in separate groups between 0000hrs to 0700hrs on 10 September 2017 and 17 September 2017. Amongst the above, 2 nos. of electric breakers and 1 no. of saw cut machine were operated only between 0000hrs to 0200hrs and 1 no. of poker vibrator was only operated beyond 0600hrs. Noise Mitigation measure including acoustic enclosure were provided locally for the use of electric breaker, portable generator and saw cut machine between 0000hrs to 0700hrs on 10 September 2017 and 17 September 2017.	Final Investigation report issued on 30 September 2017 and case closed.



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					September 2017(Sunday). Powered mechanical equipment (PME) including 2 nos. of electric breakers, 2 nos. of portable generator, 1 no. of saw cut machine, 2 nos. of grab lorry, 1 no. of mini concrete mixer, 1 no. of welding set and 1 no. of poker vibrator were deployed in separate PME groups between 0000hrs to 0700hrs on 10 September 2017 and 17 September 2017. Amongst the above, 2 nos. of electric breakers and 1 no. of saw cut machine were operated only between 0000hrs to 0200hrs and 1 no. of poker vibrator was only operated beyond 0600hrs on 10 and 17 September 2017. Noise Mitigation measure including acoustic enclosure were provided locally for the use of electric breaker, portable generator and saw cut machine between 0000hrs to 0700hrs on 10 September 2017 and 17 September 2017.	
					Based on the site information, the aforesaid PMEs were deployed under the Construction Noise Permit GW-RS0697-17 while it was found the PMEs were deployed beyond the specified area under the Construction Noise Permit GW-RS0697-17. It was further found that operation of grab lorry for the removal of concrete debris was conducted beyond the specified period allowed under condition 4.d.2 of Construction Noise Permit GW-RS0697-17. Additionally, based on the site layout and the operation location of 2 nos. of electric breakers, it is considered that the operation of the two electric hand held breakers could not fulfil the condition 3.d.7. under Construction Noise Permit GW-RS0697-17.	
					In view of the above findings, the Contractor of HY/2010/08 was requested to immediately	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					implement the following rectification measures to ensure the strict compliance with the Noise Control Ordinance including i) Critically review the Construction Noise Permit(s) in force and renew the Construction Noise Permit(s), if necessary, for the tentative construction operations to ensure the strict compliance with the Construction Noise Permit under Noise Control Ordinance, ii) Review the site control system for construction works carried out during restricted hours to ensure the PMEs deployed are in compliance with relevant Construction Noise Permit and iii) Fully review the construction method, sequence and schedule to ensure the construction operations and associated PMEs are operated within the specified allowable period in accordance with the relevant Construction Noise Permit.	
ICC complaint (CASE Ref: #2- 4320996036) dated 08 November 2017	08 Novemb er 2017	An ICC complaint was referred by RSS to the ET on 13 November 2017	Construction works area opposite to City Garden Block 9	Noise was emanated from construction works during morning hours from 0300hrs to 0500hrs and metal hammering noise was still emanated at night time	An ICC complaint was referred by RSS to the ET on 13 November 2017 (CASE Ref: #2-4320996036). The complainant reported that noise was emanated from construction works conducted opposite to City Garden Block 9 during morning hours from 0300hrs to 0500hrs and metal hammering noise was still emanated at night time causing nuisance to nearby residence. ET confirmed with the Resident Site Staff that night work including nut fixing works for post supporting bracket of noise enclosure was conducted under Contract HY/2009/19 at IECL westbound bridge Pier 40 around the concerned location from 0300hrs to 0500 hrs on 07 November 2017. Crane lorry for panel removal and hand tools for fixing of nuts were deployed with relevant Construction Noise Permit GW-RS0837-17. No construction works was conducted under Contract HY/2009/19 from 1900hrs to 2300hrs on 07 November 2017. Night work including nut fixing works for post supporting bracket of noise enclosure was conducted under Contract HY/2009/19 at IECL westbound bridge Pier 38 around the concerned location from 0300hrs to 0500hrs on 08 November 2017. Crane lorry for panel removal and hand tools for fixing of nuts were deployed	Investigation Report issued on 23 November 2017 and case closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					with relevant Construction Noise Permit GW-RS0837-17. Night work including nut fixing works for post supporting bracket of noise enclosure was conducted under Contract HY/2009/19 at IECL westbound bridge Pier 40 around the concerned location from 0300hrs to 0500 hrs on 07 November 2017. Crane lorry for panel removal and hand tools for fixing of nuts were deployed. Night work including nut fixing works for post supporting bracket of noise enclosure was conducted under Contract HY/2009/19 at IECL westbound bridge Pier 38 around the concerned location from 0300hrs to 0500hrs on 08 November 2017 and crane lorry for panel removal and hand tools for fixing of nuts were deployed. Relevant Construction Noise Permit GW-RS0837-17 was in placed for the above construction activities conducted under Contract HY/2009/19 outside the Designated Area zone under Noise Control Ordinance. No construction works was conducted under Contract HY/2009/19 from 1900hrs to 2300hrs on 07 November 2017. In view of the public concern, the Contractor of HY/2009/19 is recommended to adopt soft face hammer to minimize potential noise emanation during works and ii) minimize potential bumping sound with the ground by good practice of material handling to reduce the potential nuisance caused to the surrounding residents. The Contractor of HY/2009/19 was further reminded to observe and strictly follow condition 3.d.7 under relevant Construction Noise Permit GW-RS0837-17.	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
EPD complaint (Case ref: H08/RS/0003 7826-17) dated 24 November 2017	21 November 2017	An EPD complaint (Case ref: H08/RS/0003782 6-17) referred to the ET on 24 November 2017	North Point New Reclamation Area, Oil Street, North Point.	Noise was emanated from construction works conducted at around 2200hrs	An EPD complaint (Case ref: H08/RS/00037826-17) was referred to the ET on 24 November 2017. The complainant reported that noise was emanated from construction works conducted at around 2200hrs at North Point New Reclamation Area, Oil Street, North Point. ET confirmed with the Resident Site Staff that welding works to the steel strut at Approach Ramp Phase 2 Portion X) were conducted under Contract HY/2009/19 on 20 November 2017 and total 3 nos. of welding machines were operated until 2130hrs. No works was conducted between 2130hrs to 2230hrs on 20 November 2017. No construction works was conducted under HY/2011/08 on 20 November 2017 between 2130hrs to 2230hrs. Welding works to the steel strut at Approach Ramp Phase 2 (Portion X) were conducted under Contract HY/2009/19 on 20 November 2017 and total 3 nos. of welding machines were operated until 2130hrs. No works was conducted between 2130hrs to 2230hrs on 20 November 2017. Meanwhile, no construction works was conducted under HY/2011/08 on 20 November 2017 between 2130hrs to 2230hrs. Nevertheless, the Contractor of HY/2011/08 and the Contractor of HY/2009/19 were reminded to maintain proper site control and all construction activities to be conducted during restricted hours shall follow relevant Construction Noise Permit.	Interim investigation report submitted to EPD on 08 December 2017. Under EPD Review



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
EPD complaint (H05/RS/397 21-17) dated 15 December 2017	08 December 2017	An EPD complaint (Case Ref: H05/RS/39721- 17) referred to ET on 15 December 2017	Construction site near the HKCEC and Wanchai Pier	Construction dust was generated from rock breaking activities of a construction site	An EPD complaint was referred to the ET on 14 December 2017 (CASE Ref: H05/RS/39721-17). The complainant reported that construction dust was generated from rock breaking activities of a construction site near the HKCEC and Wanchai Pier on 08 December 2017 (0815hrs), causing nuisance. ET confirmed with the Resident Site Staff that breaking works and backfilling works were conducted under Contract HK/2009/02 at Portion 5 (Site Area near Wanchai Ferry Pier) on 08 December 2017 around 0815hrs and mitigation measure including water spraying was provided for the breaking works. According to the RSS site information, breaking works. According to the RSS site information, breaking works and backfilling works were conducted under Contract HK/2009/02 at Portion 5 (Site Area near Wanchai Ferry Pier) on 08 December 2017 around 0815hrs and mitigation measure including water spraying was provided for the breaking works. Follow up inspection was conducted on 19 December 2017, ground compaction and intermittent breaking works was observed while dust suppression was observed implemented at intervals under Contractor of HK/2009/02 while no particular dust emission was observed from the above works. Nevertheless, in view of the public concern, the Contractor of HK/2009/02 was reminded that adequate dust suppression measure shall be provided for breaking works and dusty surface to avoid dust emission and minimize any potential dust impact to the surroundings. The Contractor of HK/2009/02 is also recommended to arrange the breaking works, if any, to be conducted collectively at specified location to enhance the overall site control and effectiveness of dust suppression measure. The Contractor is also recommended to review the use of water truck or automatic water spraying system to enhance the overall dust suppression effectiveness.	Interim investigation report submitted to EPD on 21 December 2017. EPD advised on 08 Jan 2018 no comment 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
EPD complaint (H08/RS/000 00972-18) dated 11 January 2018	08 January 2018	An EPD complaint (Case Ref: H08/RS/0000097 2-18) referred to ET on 11 January 2018	North Point new Reclamation Area. Oil Street	Night time construction noise after 7pm	<ul> <li>An EPD complaint (Case ref: H08/RS/00000972-18) was referred to the ET on 11 January 2018. The complainant reported that night time construction noise after 7 pm near North Point New Reclamation Area, Oil Street, North Point.</li> <li>ET confirmed with the Resident Site Staff that no construction works was conducted under Contract HY/2011/08 on 08 January 2018 from 1900hrs to 2300hrs at the concerned location. Concreting operation was conducted under Contract HY/2009/19 at Approach Ramp Phase 2 site area at Oil Street on 08 january 2018 from 1900hrs to 2030hrs. Total 1 no. of concrete truck, 1 no. of concrete pump and 2 nos. of vibratory pokers were in operation.</li> <li>According to RSS confirmed information, no construction works was conducted under Contract HY/2011/08 on 08 January 2018 from 1900hrs to 2300hrs at the concerned location. Meanwhile, concreting operation was conducted under Contract HY/2011/08 on 08 January 2018 from 1900hrs to 2300hrs at the concerned location. Meanwhile, concreting operation was conducted under Contract HY/2009/19 at Approach Ramp Phase 2 site area at Oil Street on 08 January 2018 from 1900hrs to 2300hrs. Total 1 no. of concrete pump and 2 nos. of vibratory pokers were operated without a valid Construction Noise Permit.</li> <li>In view of the above, the Contractor of HY/2009/19 was advised to i) fully review the Construction operations to ensure all construction operations during restricted hours strictly complies with the Construction Noise Permit and Noise Control Ordinance, ii) review the site control system for construction works during restricted hours and tighten the site supervision to ensure site compliance; iii) review the planned construction operations would be conducted within allowable period, shall any planned construction activities might extend beyond the specified allowed period, relevant necessary Construction Noise Permit(s) shall be applied for. In addition, the Contractor of HY/2009/19 is also recommended to provide briefing and training sectio</li></ul>	Interim investigation report submitted to EPD on 23 January 2018.



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					noise permit(s) requirement during restricted hours. Follow up inspection during restricted hours was conducted by the Environmnetal Team on 18 January 2018, no construction operations was observed around the concerned location	
EPD complaint (H08/RS/000 01430-18) dated 17 January 2018	15 January 2018	An EPD complaint (Case Ref: H08/RS/0000143 0-18) referred to ET on 17 January 2018	2-8 Watson Road	Construction Dust was emitted from vehicles entering/ leaving construction site at 2-8 Watson Road	An EPD complaint (Case ref: H08/RS/00001430-18) was referred to the ET on 17 January 2018. The complainant reported that construction dust was emitted from vehicles entering/leaving construction site at 2-8 Watson Road. ET confirmed with the Resident Site Staff that cable laying was conducted under Contract HY/2011/08 within the site area near Watson Road on 15 January 2018. No construction works was conducted under Contract HY/2009/19 near Watson Road on 15 January 2018. According to site information confirmed by RSS, cable laying was conducted under Contract HY/2011/08 within the site area near Watson Road on 15 January 2018. According to site information confirmed by RSS, cable laying was conducted under Contract HY/2011/08 within the site area near Watson Road on 15 January 2018 and no construction works was conducted under Contract HY/2009/19 near Watson Road on 15 January 2018. Based on review on relevant information, the concerned location of 2 – 8 Watson Road refers to a section of public road fronting the construction site entrance/ exit maintained by Contract HY/2009/19 at Watson Road. Follow up inspection was conducted by the Environmnetal Team on 17 January 2018. It was observed that wheel washing facilities and wheel washing for vehicles leaving from the construction site exit adjoining Watson Road was implemented by the Contractor HY/2009/19. No silt / soil deposition and no particular dust emission from the construction area under Contract HY/2009/19 and HY/2011/08 was observed. Seperately, it was observed that non-CWB project construction waste skip containing dusty demolition waste and rubbles was placed at the concerned section of public road at 2 – 8 Watson Road and it was further noticed that non-CWB Projects had been undertaken around the concerned location.	Interim investigation report submitted to EPD on 29 January 2018.



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					Nevertheless, in view of the public concern, the Contractor of HY/2011/08 and the Contractor of HY/2009/19 were reminded to maintain the dust mitigation measures provided for the construction site and construction operation to avoid potential dust impact to the surroundings. The Contractor of HY/2009/19 was also reminded to upkeep the construction site exit control and wheel washing practice to maintain the proper condition of site entrance to avoid potential dust impact to the nearby public area.	
ICC complaint (CASE Ref: #2- 4459226093) dated 03 February 2018	3 February 2018	ICC complaint (CASE Ref: #2- 4459226093) dated 03 February 2018	Planter Area at Victoria Park boundary adjacent to footbridge to Victoria Park Road	Concern on an observed severely tilted tree with potential felling hazard. No fencing, no tree pit, trench and no irrigation pipe is observed	An ICC complaint referred by RSS was received by ET on 06 February 2018 (CASE#2-4459226093). The complainant reported that there is concern on an observed severely tilted tree with potential felling hazard. No fencing, no tree pit, trench and no irrigation pipe is observed. ET confirmed with Resident Site Staff that the concerned tree is within the works area of HY/2010/08 and one of the roots of the concerned tree ( <i>Liquidambar formosana</i> ) to have suffered minor damaged by the nearby excavation works. Remedial works including i) nylon reinforcement ropes has been added to the existing 3 nos. of tying cables and covering of the slope surface with wet hessian for protection were carried out for the damaged root of the tree. Follow up inspection was conducted by the Environmental Team on 09 February 2018. It was observed that the concerned tree has been fortified and protected for restoration and no tilting was observed. In view of the nearby construction works, the Contractor is suggested to demarcate the tree protection zone for the concerned tree and fence off the tree protection zone to avoid further damage and placing of construction material, if feasible. The Contractor is also suggested to provide refreshment training for frontline works for tree protection, in particular, for trees retained of site in close proximity to active works front to avoid potential damage to retained trees	Investigation Report issued on 26 February 2018 and case closed



Appendix 10.1

Construction Programme of Individual Contracts

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

# **Construction Activities for Three Months Rolling**

Construction Activities	November 2017	December 2017	January 2018
Reinstatement of Amenity Area	<b></b>		

EDD C	ONTRACT H	IK/2009/02																				Page 1 o
y ID	Activity Name		Ori	Rem	Scheduled	Scheduled /	Total	Calendar								2018						
			Dur	Dur	/Actual Start	Actual Finish	Float		21	28		oruary	8 2	 !5   (		arch 18	25	01		oril 15	22 29	May 06 1
	Iling Programme 2018-02										-											
		f Government Helipad and Public Toilet							1 1 1 1		-			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				1				1		ofocts root	ification w	orke for th	e covered w	alloway at Exr	o Drive East, De
S3-0070-1499D S3-0070-1510		er tapes, water pipes & telephone cables serving Dragon Pearl Cru		27	23-Feb-18	22-Mar-18	-144	HK Working Day HK Working Day	1		1	1	-	-							ĩ -	lephone cables
S3-0070-1520	Construct end copings x 3 nos.		15	15	21-Mar-18	10-Apr-18	-138	HK Working Day									· · · · · · · · · · · · · · · · · · ·			1		, Construct end
S3-0070-1530	Construct Paving Blocks adjacent		6	6	10-Apr-18	16-Apr-18	-138	HK Working Day			-									Construc	t Paving Block	ks adjacent to the
	ork above Tunnel Portion & co	umping System for Sun Hung Kai Centre (P8)									-											
S4A-0900C1	Submission for Raising the Vent S		60	45	05-Feb-18 A	14-Apr-18	491	HK Working Day												Submission	for Raising th	e Vent Shaft and
S4A-0900C2	Raising the Vent Shaft and Water		60	60	16-Apr-18	20-Jun-18	491	HK Working Day			1											
		umping System for China Resources Building	(P9)								8 8 8			1			1					
S4B-0900C1	ork above Tunnel Portion & co Submission for Raise Vent Shaft a		60	45	05-Feb-18 A	14-Apr-18	491	HK Working Day			1									Submission	for Raise Ver	t Shaft and Wat
S4B-0900C2	Raise Vent Shaft and Water Meter		60		16-Apr-18	20-Jun-18	491	HK Working Day				-										
Section 4C of the	e Works - Cooling Water P	umping System for Great Eagle Centre / Harbo	our Centre (P7)																			
	ork above Tunnel Portion & co										1		-	2 2 2 2 3				8	-			
S4C-0900C1 S4C-0900C2	Submission for Raise Vent Shaft a Raise Vent Shaft and Water Meter		60 60	45 60	05-Feb-18 A 16-Apr-18	14-Apr-18 20-Jun-18	-294 -294	HK Working Day HK Working Day				1		1						Submission	for Raise Ver	t Shaft and Wa
	Works - WSD Salt Water Pu		00	00	10-4-01-10	20-0011-10	-234	The working Day	l.		-								-			
WSD Salt Water Pu																						
Outstanding Works	and the second										8 8 8		-	1			1					
S5-OUT-1000	•	s at the front yard of WSD Pump station	6	6	26-Feb-18	03-Mar-18	-115	Calendar Day						Ca	arry out defe	ct rectification	works at the	he front ya	rd of WSI	D Pump stat	ion, Carry out	defect rectificati
Section 8A of the Outstanding Work		of Wan Chai Ferry Pier in Area 8																				
S8A-OUT-1039a	Construct Permanent EVA (east-w	vest direction)	25	60	15-Sep-17 A	02-May-18	-152	HK Working Day														Construct Perma
S8A-OUT-1040	Relocation of fire hydrant near Fer	,	8	8	06-Mar-18	14-Mar-18	-111	HK Working Day			-					Relocation of	fire hydrar	nt near Fe	ry Pier, R	elocation of	fire hydrant ne	ear Ferry Pier
Section 9B of the	e Works - CWB Tunnel Stru	ucture (CH3400 - CH3796)									1			1			-		-			
Tunnel Portion 1 (	· · · · ·										-											
CWB Structural Wo Outstanding Works									:									·····				
		water leakage for tunnel side walls	25	7	28-Sep-17 A	26-Feb-18	-110	Calendar Day	:									· .				rks against wate
	TB1 - Carry out CCTV inspection f	for the drainage system	2	2	20-Feb-18	21-Feb-18	-115	Calendar Day					TB1-0	Carry but	CCTV inspe	tion for the dr	ainage sys	stem, TB1	- Carry օւ	It CCTV ins	pection for the	drainage syster
Tunnel Portion 2 ( CWB Structural Wo											-											
Outstanding Works																						
	TB2 - Rectification works against v		25		28-Sep-17 A	26-Feb-18	-110 -115	Calendar Day	-							-	-					rks against wate the drainage sys
	TB2 - Carry out CCTV inspection f & Tunnel Portion 4 (CH3630-CH		2	2	22-Feb-18	23-Feb-18	-115	Calendar Day			-			- Cally U			urainaye	system, i	Dz - Cally		Inspection for	ine urainage sys
CWB Structural Wo	<b>`</b>																		-			
TP3 & 4 Outstanding	<u> </u>		05	7	40 km 40 A	00 Est 40	440	O alex das Davi							Comicout d	efects rectificat	ion worko	трори	Comiou	t defecto rec	tification work	
	0 TP3 & 4 - Carry out defects rectific 5 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											s pection for the d
	s - CWB Tunnel Structure										8 8 8											
TP5 Outstanding \	Works																					
S10-T5-OUT-1020	TP5 - Carry out defects identification		80	7	17-Jul-17 A	26-Feb-18	-110	Calendar Day	-		1	1	-	TP5 - Ca	-							ation and rectifi
S10-T5-OUT-1030	TP5 - Remedial works of the cross Works - Remainder of Wo		18	18	17-Sep-17 A	09-Mar-18	-121	Calendar Day	1		-				IP5-	Remedial wor	s or the c	ioss ioaq	aucis and	drainage pi	pes, 1P5-Re	medial works of
Marine Works at W									1		-		-	1	8		1					
S11-R3-2105	Carry out remedial works for 0.5 to	onne Rock Armour	6	11	25-Dec-17 A	06-Mar-18	-135	HK Working Day	:						Carry out	emedial work	for 0.5 to	nne Rock	Armour, C	Carry out ren	nedial works fo	or 0.5 tonne Roo
Misc. Works																						
Removal of Tempor	rary Reclamation CH 3710 to CH 3	790 (East)																1	1			
Alianta:															Date		Re	vision		Ch	ecked	Approve
<ul> <li>Milestone</li> <li>Critical Mile</li> </ul>																						11.2.0
Critical Mile     Current W		CHUN WO - CRGL			CEDD	CONTR	RACT	NO. HK/2	2009	0/02												
CurrentW		JOINT VENTURE		ontr		-		-		-	(Con	trad	- 21									
Critical Wo		JUINI VENTURE	WD II - Co			-	-				•											
Remainin	ng Level of Effort		3-MON	ITH	ROLLI	NG PRO	DGRA	MME (da	ta d	ate 2	0-Feb	-18)										
								•							<u> </u>							

♦ Milestone			Date	
<ul> <li>Critical Milestones</li> </ul>	CHUN WO - CRGL	CEDD CONTRACT NO. HK/2009/02		<u> </u>
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)		

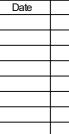
# CEDD CONTRACT HK/2009/02

۳ID	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
S11-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
S11-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-3122	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	
11-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	Remove remaining temporary reclamation by barge (22.000 out of 32,000 m3 @ 800 m3/day)	28	28	06-Apr-18	07-May-18	-680	HK Working Day	······································
	rary Reclamation CH 3630 to CH 3710 (West)	20	20	00-7401-10	07-Way-10	-000	The Working 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-3243	Remove remaining temporary reclamation from +4mPD to -6mPD by barge (22,000 m3@1000m3/day)	22	22	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	
1-RTC-3251	Remove 2 sections of existing seawall (320 nos.@30nos./day)	12	12	19-Apr-18	02-May-18	-176	HK Working Day	Made within Terry D Mall Justell
-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 corner
RTC-3442	Excavation and dredging between Temp Seawall & D-Wall to Temp Seawall (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 Seawall (west side)	25	25	19-Apr-18	16-May-18	-720	HK Working Day	
porary Works a	at North West corner of Tunnel Portion 3 and 4							
1-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							
RTC-3341b	Preparation for D-Wall Cutting - Remaining Coring 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 cofferdam (37 nos., 3 machines@1no./machine/day)	15	15	07-Apr-18	24-Apr-18	-669	HK Working Day	
atement of Bo		10		0.74110	217.4110	000	In Crional g Day	
3CO-2016	Box Culvert O Reinstatement - Design of Box Culvert 'O' by designer and reviewed by CW-CRGLJV	45	12	18-Aug-17 A	07-Mar-18	584	HK Working Day	Box Culvert O Reinst
BCO-2010	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 Culvert O Reinst
O-2020	Box Culvert O Reinstatement - Design Submission of Box Culvert O for Comment and approval by ACCOM 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	
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	
1-BCO-2066	struction (Tunnel Section) - Bay 15A and Bay 16A 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-2066	· · ·					-200	0,	Box Culvert O Reinstate
	Box Culvert O Reinstatement - Bay 16A Base rebar	3	3	05-Mar-18	08-Mar-18	-200	HK Working Day	······································
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	
-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 0
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	
1-BCO-2073	Box Culvert O Reinstatement - Bay 16A External Wall rebar	3	3	29-Mar-18	04-Apr-18	-200	HK Working Day	
1-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	
S11-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
11-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-2079b	Box Culvert O Reinstatement - Bay 16A Construction of Inspection Manhole	9	9	23-Apr-18	03-May-18	-213	HK Working Day	
1-BCO-20735	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
11-BCO-2000	Box Culvert O Reinstatement - Bay 15A Base kicker and end formwork	2	2	24-Feb-18	27-Feb-18	-200	HK Working Day	Box Culvert O Reinstatement - E
	Box Culvert O Reinstatement - Bay 15A Base Ricker and end formwork Box Culvert O Reinstatement - Bay 15A Base concrete			27-Feb-18	27-Feb-18 28-Feb-18	-200	HK Working Day	Box Culvert O Reinstatement - I
511-BCO-2082		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)



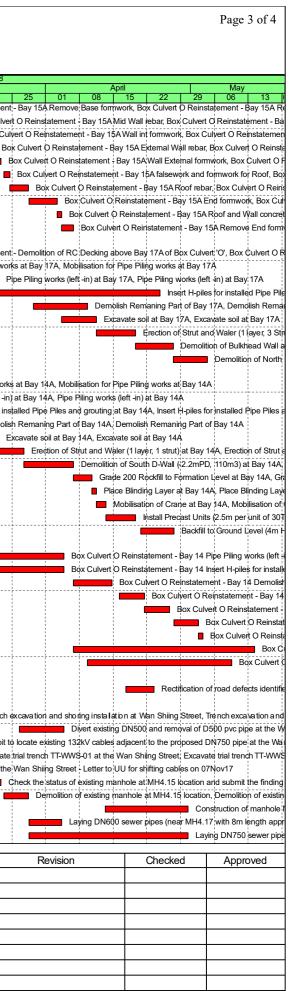
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vit	hin Temp	D-Wall - B	ulk Reclar	mati	ion to	+4.50 mF	PD (6,80	0m3 @	500m3	/day), V
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# CEDD CONTRACT HK/2009/02

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ivity ID	Activity Name	Ori	Rem	Scheduled	Scheduled /	Total	Calendar						201	8
		Dur	Dur	/Actual Start	Actual Finish	Float		21	28	Febr 04 11		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	20				Box Culvert O Reinstaten	
S11-BCO-2086	Box Culvert O Reinstatement - Bay 15A Mid Wall rebar	3	3	13-Mar-18	15-Mar-18	-200	HK Working Day		1				📕 Box Cu	Ivert
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	Culy
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	1	1	ł		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							B
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					-		
S11-BCO-2092	Box Culvert O Reinstatement - Bay 15A Roof rebar	3	3	24-Mar-18	28-Mar-18	-189	HK Working Day							Ė
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	04-Apr-18	06-Apr-18	-189	HK Working Day		1					
	struction (Outfall Section) - Bay 17A						;		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 Reinstaten	ient
S11-BCO-2112	Mobilisation for Pipe Piling works at Bay 17A	4	4	24-Feb-18	01-Mar-18	-174	HK Working Day						Mobilisation for Pipe Piling	work
S11-BCO-2114	Pipe Piling works (left -in) at Bay 17A	20	20	01-Mar-18	22-Mar-18	-174	HK Working Day					- i		I Pir
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							
S11-BCO-2120	Excavate soil at Bay 17A	6	6	04-Apr-18	11-Apr-18	-174	HK Working Day		1	1	1			-
S11-BCO-2122	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-2124	Demolition of Bulkhead Wall at Bay 18	8	8	19-Apr-18	27-Apr-18	-174	HK Working Day					1		
S11-BCO-2124	Demolition of North D-Wall (-2.2mPD, 110m3) at Bay 17A	6	6	27-Apr-18	04-May-18	-174	HK Working Day							
Box Culvert O Cons		0	Ū	21740110	04 May 10		The Wonding Duy					-		
S11-BCO-2152	Mobilisation for Pipe Piling works at Bay 14A	5	5	23-Feb-18	28-Feb-18	-398	HK Working Day						obilisation for Pipe Piling w	orks
S11-BCO-2154	Pipe Piling works (left -in) at Bay 14A	5	5	28-Feb-18	05-Mar-18	-398	HK Working Day						Pipe Piling works (lef	<b>.</b> .
S11-BCO-2156	Insert H-piles for installed Pipe Piles and grouting at Bay 14A	4	4	05-Mar-18	09-Mar-18	-388	HK Working Day		1				Insert H-piles for	
S11-BCO-2158	Demolish Remaning Part of Bay 14A	8	8	09-Mar-18	17-Mar-18	-207	HK Working Day		1	1			Dem	
S11-BCO-2160	Excavate soil at Bay 14A	4	4	17-Mar-18	22-Mar-18	-207	HK Working Day							I 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-2108	Place Blinding Layer at Bay 14A	1	1	10-Apr-18	11-Apr-18	-207	HK Working Day		1					-
S11-BCO-2172	Mobilisation of Crane at Bay 14A	2	2	11-Apr-18	13-Apr-18	-207	HK Working Day		-					
S11-BCO-2174	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		1	1		ł		
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	-207	HK Working Day						· · · · · · · · · · · · · · · · · · ·	
	struction (South Portion) - Bay 14 to Bay 13	1	'	20-Api-18	27-Api-16	-149	HK WORKING Day					-		
S11-BCO-2316	Box Culvert O Reinstatement - Bay 14 to Bay 13 Box Culvert O Reinstatement - Bay 14 Pipe Piling works (left -in)	25	25	06-Mar-18	04-Apr-18	-398	HK Working Day							
S11-BCO-2318	Box Culvert O Reinstatement - Bay 14 high ruling works (citcain) Box Culvert O Reinstatement - Bay 14 Insert H-piles for installed Pipe Piles and grouting	23	21	10-Mar-18	04-Apr-18	-388	HK Working Day							
S11-BCO-2320	Box Culvert O Reinstatement - Bay 14 month pipe for initiating and ground groun	8	8	06-Apr-18	14-Apr-18	-220	HK Working Day		-	1		-		
S11-BCO-2322	Box Culvert O Reinstatement - Bay 14 Demoisin Remaining Fait	6	6	16-Apr-18	21-Apr-18	-220	HK Working Day				····			
S11-BCO-2322	Box Culvert O Reinstatement - Bay 14 Excavate solit 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-2324	Box Culvert O Reinstatement - Bay 14 Election of Studiand Waler (1 Byer, 4 studis) 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							i
S11-BCO-2328	Box Culvert O Reinstatement - Bay 14 Glade 200 Rocking Lover (Remaining Portion)	1	1	02-May-18	02-Way-10 03-May-18	-220	HK Working Day					-		
		34	34	-		-220	• •							
S11-BCO-2366	Box Culvert O Reinstatement - Bay 13 Pipe Piling works (left -in)			06-Apr-18	14-May-18		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							
Reinstatement for T									-					
S11-HH-5048	Rectification of road defects identified at Convention Avenue	5	5	17-Apr-18	23-Apr-18	-144	HK Working Day							
Wan Shing Street S					1				-	1	-			
S11-SW-1083	Trench excavation and shoring instalation at Wan Shiing Street	12	23	31-Aug-17 A	17-Mar-18	-315	HK Working Day	·			· <del>¦</del>		Iren	nch e≀
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							
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		1	1	:	:	Excavate trial	
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	1 1	1	1	:	- L -	Exca	
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		1			Excavate	trial trench TT-WWS-01 at	
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	ļ						C
S11-SW-1085	Demolition of existing manhole at MH4.15 location	5	5	23-Mar-18	28-Mar-18	-332	HK Working Day		1					-
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			-		1
S11-SW-1087	Laying DN600 sewer pipes (near MH4.17 with 8m length approx.)	3	3	28-Mar-18	04-Apr-18	-332	HK Working Day		-					i
S11-SW-1088	Laying DN750 sewer pipes and connection to MH4.19	27	27	28-Mar-18	30-Apr-18	-329	HK Working Day	e i					1 I I I	i.

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



# CEDD CONTRACT HK/2009/02

Activity ID	Activity Name	Ori	Rem	Scheduled	Scheduled /	Total	Calendar									2018
		Dur	Dur	/Actual Start	Actual Finish	Float					February				Marc	'n
								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			-			

♦ ♦ Milestone			Date	
<ul> <li>Critical Milestones</li> </ul>				<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 –

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8								
			A	April			May	
	25	01	08	15	22	29	06	13 🕴
							Backfill (3	00mm/laye

Revision	Checked	Approved

	* CHINA STATE - LEA		NT VENTUR	E	CEDD Contract No. HK/2012/08 Wan Chai Development Phase II Central - Wan Chai Bypass at Wan Chai West	
)	Activity Name	Remaining Du		Early Finish	2 2018 Jan Feb	
2012/08	Revised Works Programme Rev.12.0(DD 20 No	vember 20	)17)			
edging an	d Reclamation					
larine Work	k Construction					
Zone D						
Seawall Cons	struction - Zone D					
Seawall 10 &	11					
MAR20630	Zone D - Seawall 10 & 11: Install remaining seawall block	14	08-Jan-2018*	21-Jan-2018		
MAR20650	Zone D - Seawall 10 & 11: Backfill Type A	7	22-Jan-2018	28-Jan-2018		
MAR20670	Zone D - Seawall 10 & 11: Lay geotextile and filter	7	29-Jan-2018	04-Feb-2018		
/orks for Se	ection Completion					
Construction						
Section III A -	- Road A2, A4 & A5					
Roadwork &	Utilities - Section 1 (L1806 - L1801)					
SIIIA10270	Sec III A - section 1 carriageway - Construct M/H F9	7	20-Dec-2017	29-Dec-2017		
SIIIA10272	Sec III A - section 1 carriageway - connect M/F F9 to	7	30-Dec-2017	08-Jan-2018		
	existing pipe					
SIIIA10274	Sec III A - section 1 carriageway - construct M/H F8C	7	20-Dec-2017	29-Dec-2017		
SIIIA10276	Sec III A - section 1 carriageway - sewerage pipe from M/H F9 to F8C	3	30-Dec-2017	03-Jan-2018		
SIIIA10278	Sec III A - section 1 carriageway - sewerage pipe from M/H 8C to F8B	15	30-Dec-2017	17-Jan-2018		
SIIIA10279b	Sec III A - section 1 carriageway - sewerage pipe from M/H 8C to F8B (night time): construct M/H F8B	6	13-Dec-2017 A	28-Dec-2017		
SIIIA10279c	Sec III A - section 1 carriageway - sewerage pipe from M/H 8C to F8B (night time): construct sewerage pipe	29	02-Jan-2018	03-Feb-2018		
SIIIA10292	Sec III A - section 1 carriageway - construct M/H F8A	7	09-Jan-2018	16-Jan-2018		
SIIIA10293	Sec III A - section 1 carriageway - sewerage pipe from M/H	6	05-Feb-2018	10-Feb-2018		
SIIIA10294	F8B - F8A (night time) Sec III A - section 1 carriageway - sewerage pipe from M/H	11	17-Jan-2018	29-Jan-2018		
SIIIA10295	F8A - F8 Sec III A - carriageway - works prrior TTA stage 5:	7	18-Jan-2018	25-Jan-2018		
SIIIA10296	excavation and duct laying of TCSS and public lighting Sec III A - section 1 carriageway - works prrior TTA stage	14	20-Dec-2017	08-Jan-2018		
SIIIA10297	5: reinstate damaged manhole and pipeline Sec III A - section 1 carriageway - works prrior TTA stage	7	09-Jan-2018	16-Jan-2018		
SIIIA10298	5: construct 225mm storm drain from D5.2 to existing Sec III A - section 1 carriageway - works prrior TTA stage	5	26-Jan-2018	31-Jan-2018		
SIIIA10250	5: road kerb Sec III A - section 1 carriageway - works prior TTA stage	2	01-Feb-2018	02-Feb-2018		
	5: road formation Sec III A - section 1 carriageway - works prior TTA stage					
SIIIA10302	5: laying asphalt	5	03-Feb-2018	08-Feb-2018		
SIIIA10303	Sec III A - section 1 carriageway - works prrior TTA stage 5: road marking & preparation works	3	12-Feb-2018	14-Feb-2018		
SIIIA10310	Sec III A - section 1 carriageway - TTA stage 5: Implementation of TTA Stage 5	1	15-Feb-2018	15-Feb-2018		
Roadwork &	Utilities - Section 2 (L1810 - L1807)					
SIIIA12550	Sec III A - roadwork and utilities section 2 carriageway - Utilities: HEC along carriageway & Crossroad duct (HEC &	7	25-Nov-2017 A	29-Dec-2017		
SIIIA12570	Sec III A - roadwork and utilities section 2 carriageway - road kerb & formation	17	30-Dec-2017	19-Jan-2018		
SIIIA12590	Sec III A - roadwork and utilities section 2 carriageway -	7	20-Jan-2018	27-Jan-2018		
	black top	]			1	
	Current Milestone					<u> </u>
Date:	Actual Work	<b>•</b> •	lonthe	Dallina	Dragramma for Non CDIII Area ( January 0010 March 0010)	20-D
Dec-2017	Critical Remaining Work	3	wonths	-	Programme for Non-CRIII Area (January 2018 - March 2018)	
	Remaining Work				Ref. to Revised Works Programme Rev.12)	

Remaining Level of Effort

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Activity ID	Activity Name	Remaining Dur	Early Start	Early Finish	Jan	2018 Feb	
Roadwork &	Utilities - Section 3 (L1808 - L1102)	-	L I				
SIIIA12710	Sec III A - roadwork and utlities section 3 carriageway - Drainage works (L1301 - L1102)	2	11-Dec-2017 A	21-Dec-2017			
SIIIA12750	Sec III A - roadwork and utities section 3 carriageway - gully pipe (L1808A - L1102)	12	22-Dec-2017	08-Jan-2018			
SIIIA12762	Sec III A - roadwork and utilities section 3 carriageway - watermain	10	09-Jan-2018	19-Jan-2018			
SIIIA12770	Sec III A - roadwork and utilities section 3 carriageway -	16	20-Jan-2018	07-Feb-2018			
SIIIA12790	utilities: HEC ducting (60m) & crossroad duct (PCCW & HGC Sec III A - roadwork and utilities section 3 carriageway -	17	08-Feb-2018	02-Mar-2018			
Roadwork &	road kerb & formation Utilities - Section 4 (L1406 - L1401)						
SIIIA12950	Sec III A - roadwork and utilities section 4 carriageway -	4	11-Dec-2017 A	23-Dec-2017			
SIIIA12970	drainage works (L1402 -L1401) Sec III A - roadwork and utilities section 4 carriageway -	10	27-Dec-2017	08-Jan-2018			
SIIIA13000	gully pipe (L1401) Sec III A - roadwork and utlities section 4 carriageway -	5	09-Jan-2018	13-Jan-2018			
SIIIA13050	formation (L1401) Sec III A - roadwork and utilities section 4 carriageway -	5	15-Jan-2018	19-Jan-2018			
	black top (L1401) Utilities - Section 6 (L1102 - L1411)		10 5411 2010	19 5411 2010			
SIIIA13380	Sec III A - roadwork and utilities section 6 carriageway -	0	08-Nov-2017 A	01 Dec 2017 A			
	sealing up the gap beneath bay 12 of culvert L	-					
SIIIA13385	Sec III A - roadwork and utilities section 6 carriageway - Waterproofing of water channel	3		22-Dec-2017			
SIIIA13389	Sec III A - roadwork and utilities section 6 carriageway - Backfilling of water channel from bay 16 to bay 20B	5	23-Dec-2017	30-Dec-2017			
SIIIA13395	Sec III A - roadwork and utilities section 6 carriageway - Drainage works (L1101-L1102)	9	02-Jan-2018	11-Jan-2018			
SIIIA13399	Sec III A - roadwork and utilities section 6 carriageway - gully pipe (L1101 -L1102)	8	12-Jan-2018	20-Jan-2018			
SIIIA13444	Sec III A - roadwork and utilities section 6 carriageway - watermain (road crossing)	7	22-Jan-2018	29-Jan-2018			
SIIIA13445	Sec III A - roadwork and utilities section 6 carriageway - utilities: crossed duct(HEC, HGC, PCCW)	13	30-Jan-2018	13-Feb-2018			
SIIIA13450	Sec III A - roadwork and utilities section 6 carriageway - road kerb & formation	18	14-Feb-2018	09-Mar-2018			
Section V - Re	emaining At-Grade Road & Road P2						
Roadwork &	Utilities						
Section 1 (L1	504 - L1900)						
SV12456	Sec V-Roadwork & Utilities Section 1 - implementation of	1	15-Jan-2018*	15-Jan-2018	•		
SV12460	TTA stage 5E (closure of slow lane at northbound of Expo Sec V - Roadwork & Utilities Section 1 - drinage works	15	16-Jan-2018	01-Feb-2018		÷	
SV12462	(L1902 - L1900) Sec V - Roadwork & Utilities Section 1 - gully pipe (L1902 -	6	02-Feb-2018	08-Feb-2018			
SV12464	L1900) Sec V - Roadwork & Utilities Section 1 - temp. reinstatemen	: 14	09-Feb-2018	28-Feb-2018			
SV12540	to match with existing Expo Drive Sec V - Roadwork & Utilities Section 1 footpath - Watermain	6	11-Dec-2017 A	28-Dec-2017			
SV12570	Sec V - Roadwork & Utilities Section 1 footpath -	30	29-Dec-2017	02-Feb-2018			
SV12580	utilities:TCSS Sec V - Roadwork & Utilities Section 1 footpath - paving	29	03-Feb-2018	12-Mar-2018			
	block						
SV12622	Sec V - Roadwork & Utilities Section 1 Carriageway - gully	8	13-Dec-2017 A	30-Dec-2017			
SV12622	pipe (L1611 - L1609) Sec V - Roadwork & Utilities Section 1 Carriageway - road	_		25-Jan-2018			
	kerb & formation		02-Jan-2018				
SV12626	Sec V - Roadwork & Utilities Section 1 Carriageway - black top		26-Jan-2018	09-Feb-2018			
SV12690	Sec V - Roadwork & Utilities Section 2 footpath - Drainage Works (L2104 - L2105)	18	23-Dec-2017	16-Jan-2018		<u> </u>	
SV12692	Sec V - Roadwork & Utilities Section 2 footpath - U channel	14	17-Jan-2018	01-Feb-2018			
SV12695	Sec V - Roadwork & Utilities Section 2 footpath - Watermain	13	02-Feb-2018	20-Feb-2018			
Section 3 ( Cu	ılvert L - L1510)						
SIV12810	Sec V - Roadwork & Utilities Section 3 Carriageway - Gully pipe (Culvert L - L1611)	3	24-Nov-2017 A	22-Dec-2017			
	Sec V - Roadwork & Utilities Section 3 Carriageway - Black	21	23-Dec-2017	19-Jan-2018			

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ivity ID	Activity Name	Remaining Dur	Early Start	Early Finish	2 2018	Ma
SIV12844	Sec V - Roadwork & Utilities Section 3 footpath - U channel	6	02-Dec-2017 A	28-Dec-2017		
SIV12850	Sec V - Roadwork & Utilities footpath - Watermain	14	29-Dec-2017	15-Jan-2018		
SIV12860	Sec V - Roadwork & Utilities Section 3 footpath - Utilities: TCSS, HGC, PCCW)	34	16-Jan-2018	27-Feb-2018		
Section IV - S						
Roadwork &	Utilities					
Section 1 (L1	6608 - L1601)					
SIV11740	Sec IV - Re-Poesssion of the areas S and P	0	08-Dec-2017 A			
SIV11742	Sec IV - Re-Poesssion of the area at the end of Road P2	0	30-Dec-2017*			
SIV11744	Sec IV - sign gantry DS20 footing (type 1): remove existing	4	20-Dec-2017*	23-Dec-2017		
SIV11745	600mm drain pipe Sec IV - sign gantry DS20 footing (type 1): excavation	2	27-Dec-2017	28-Dec-2017		
SIV11746	Sec IV - sign gantry DS20 footing (type 1): footing structure		29-Dec-2017	15-Jan-2018		
SIV11747	Sec IV - sign gantry DS20 & DS21 footing (type 2): excavation & ELS	21	30-Dec-2017	24-Jan-2018		
SIV11748	Sec IV - sign gantry DS20 & DS21 footing (type 2): footing structure	21	25-Jan-2018	21-Feb-2018		
SIV11760	Sec IV - Roadwork & Utilities at SR3 Section 1 Carriageway Drainage Works (L1607 - L1601)	- 30	09-Dec-2017 A	26-Jan-2018		
SIV11761	Sec IV - Roadwork & Utilities at SR3 Section 1 Carriageway Drainage Works (L1602 - L2005)	- 7	16-Jan-2018	23-Jan-2018		
SIV11762	Sec IV - Roadwork & Utilities at SR3 Section 1 Carriageway Drainage Works (L2103-L2101A)	- 17	27-Jan-2018	15-Feb-2018		
Section 2 ( L	1301 - L2103)					
SIV11940	Sec IV - Roadwork & Utilities at SR3 Section 2 Carriageway	- 5	09-Dec-2017 A	27-Dec-2017		
SIV11942	Drainage Works (L2301-L2103) Sec IV - Roadwork & Utilities at SR3 Section 2 Carriageway	- 22	28-Dec-2017	23-Jan-2018		
SIV11960	Gully pipe (L2301-L2013, L1608-L1609) Sec IV - Roadwork & Utilities at SR3 Section 2 Carriageway	- 10	24-Jan-2018	03-Feb-2018		
SIV12010	Watermain Sec IV - Roadwork & Utilities at SR3 Section 2 Carriageway	- 20	05-Feb-2018	02-Mar-2018		
	Road kerb & formation /H1.6 - L2301)					
SIV12092	Sec IV - Roadwork & Utilities at SR3 Section 3 Carriageway	- 59	28-Dec-2017	10-Mar-2018		
	Drainage Works (M/H1.7 - L2301)					
SIV12096	Sec IV - Roadwork & Utilities at SR3 Section 3 Carriageway M1.7-M1.6: construct manholes		29-Nov-2017 A			
SIV12102	Sec IV - Roadwork & Utilities at SR3 Section 3 Carriageway M1.7-M1.6: demolish existing seawall		25-Jan-2018	08-Feb-2018		
SIV12103	Sec IV - Roadwork & Utilities at SR3 Section 3 Carriageway M1.7-M1.6: ELS	- 10	09-Feb-2018	23-Feb-2018		
Section VII -	Remainder Works					
Road & Drai	age Works (Culvert L - M/H1.7, Adjacent to SR3)					
SVII11600	Sec IV - Roadwork & Utilities at SR3 Section 4 Carriageway Drainage Works (Culvert L -MH1.7)	- 59	08-Jan-2018	20-Mar-2018		
Retaining Wa	Ill RW5 Construction					
SVII10660	Sec VII - Retaining Wall RW5 (bay 1) - construct base slab	22	05-Feb-2018	05-Mar-2018		
SVII10800	and wall Sec VII - Retaining wall RW5 (bay 3) - construct base slab	22	05-Feb-2018	05-Mar-2018		_
Promenade	and wall Seawall Parapet Construction & EVA					
Promenade F						
Section 2						
	Cas VIII. as there 2 for the the design as works at 2202	20	20.1-# 2010	22 E-k 2010		
SVII12610	Sec VII - section 2 footpath - drainage works : L2202 - L2203A	20	29-Jan-2018	23-Feb-2018		
Section 3						
SVII12850	Sec VII - section 3 footpath - watermain	17	20-Jan-2018	08-Feb-2018		
SVII12870	Sec VII - section 3 footpath - utilities (HEC, TCSS, HGC, PCCW)	40	09-Feb-2018	03-Apr-2018		
Section 4	· · ·					

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CDC SUEC					CEDD Contract No. HK/2 Wan Chai Development F Central - Wan Chai Bypass at W	Phase II
C	Activity Name	Remaining Dur	Early Start	Early Finish	Jan	2018 Feb
SVII13050	Sec VII - section 4 footpath - drainage works (L2203 -L2203A)	0	21-Nov-2017 A	14-Dec-2017 A		
SVII13110	Sec VII - section 4 footpath - paving block	25	14-Feb-2018	17-Mar-2018		
Section 5						
SVII13270	Sec VII - section 5 footpath - drainage works :L2203A -L2204	10	15-Dec-2017 A	03-Jan-2018	•	
SVII13275	Sec VII - section 5 footpath - watermain	14	04-Jan-2018	19-Jan-2018		
SVII13310	Sec VII - section 5 footpath - utilities: HEC, TCSS, HGC, PCCW	42	20-Jan-2018	13-Mar-2018		
Section 6						
SVII13490	Sec VII - section 6 footpath - drainage works(Culvert L - L2204)	14	12-Jan-2018	27-Jan-2018		
SVII13510	Sec VII - section 6 footpath - watermain	13	03-Feb-2018	21-Feb-2018	=	
ection X - Pr	otection & Preservation of Trees					
oft Landsca	ping Works					
SX10020	Sec X - Protection & Preservation of Trees	276	31-Jan-2013 A	21-Sep-2018		

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Activity ID	Activity Name	Rem	Start	Finish		2017		2018
		Dur			er	17 24	January	February 8 04 11
3MRP (Dec	2017 - Mar 2018)							
03 - PRELII	MINARY WORKS							
03.3 - Interfa	ce Works							
0330-1040	Relocate FEHD to Permanent Depot	9	30-Dec-17	10-Jan-18		[	Relocate FEHD to Permanent Dep	ot
0330-1045	Clean-up Area after Relocation	3	11-Jan-18	13-Jan-18	-		Clean-up Area after Relocatio	n -
FEHD Perma	nent Depot							
0330-1071	Installation of Post (43Nos) > Facility Area 5 & 10	6	20-Dec-17*	27-Dec-17	1	Ins	stallation of Post (43Nos) > Facility Area 5 & 10	
0330-1073	Construction of Steel Roof > Facility Area 5 & 10	6	26-Dec-17	02-Jan-18	-		Construction of Steel Roof > Facility Area 5 & 10	
0330-1075	Sprinkler System Installation > Facility Area 5 & 10	7	30-Dec-17	08-Jan-18	-	ſ	Sprinkler System Installation > Facility /	rea 5 & 10
0330-1077	T & C of Sprinkler System > Facility Area 5 & 10	6	09-Jan-18	15-Jan-18	-		T & C of Sprinkler System	> Facility Area 5 & 10
0330-1081	Installation of Post (73Nos) > Facility Area 6, 8 & 9	9	20-Dec-17	30-Dec-17			Installation of Post (73Nos) > Facility Area 6, 8 & 9	
0330-1095	Signage Works & ramaining light post	3	20-Dec-17	22-Dec-17	-	Signage W	orks & ramaining light post	
A4910	Road Marking & Misc Works	8	20-Dec-17	29-Dec-17	-		Rpad Marking & Misc Works	
10 - SECTIO	ON X OF THE WORKS							
10.1 - E/B Br	idges (Bridge D, E and F)							
10.1.4 - Bridg	ge E / Hing Fat Slip Road							
Bridge Cons	struction							
1014-2280	Bridge E - Construct Permanent parapet at "TB" Tie-in	9	08-Sep-17 A	30-Dec-17	╘		Bridge E - Construct Permanent parapet at "TB" Tie-ir	
10.3 - Middle	Bridge (Bridge F)							
	ge Construction							
Bridge F3B								· · ·
1032-2550	Bridge F3B - Installation of CC & Temporary Lighting	14	04-Dec-17 A	06-Jan-18	╘		Bridge F3B - Installation of CC & Tempora	ry Lighting
1032-2560	Bridge F3B - Deck Road Waterproofing, Surfacing & Marking	6	08-Jan-18	13-Jan-18	-		Bridge F3B - Deck Road Wat	erproofing, Surfacing & Marking
1032-2561	Divert 2 Lane Traffic (Stage 1)	0	14-Jan-18		-		◆ Divert 2 Lane Traffic (Stage	
1032-2562	Bridge F3B - Construct Int. Double Noise Encl. (83m) (stage 2)	26	15-Jan-18	13-Feb-18	-			Bridge F3
1032-2563	Bridge F3B - Deck Road Waterproofing, Surfacing & Marking	6	08-Feb-18	14-Feb-18				Bridge F
1032-2564	Divert 2 Lane Traffic (Stage 2)	0	15-Feb-18		-			<ul> <li>Divert 2</li> </ul>
Bridge F2B								
1032-3120	B ridge F2B - Construct Int. Double Noise Encl.	14	11-Nov-17 A	06-Jan-18			B ridge F2B - Construct Int. Double Noise	Encl
1032-3140		6	08-Jan-18	13-Jan-18	-			erproofing, Surfacing & Marking
Bridge F1B								
1032-3840		33	19-Jan-18	01-Mar-18				
1032-3860	Bridge F1B2 - Southern Parapet	24	14-Dec-17 A	18-Jan-18			Bridge F1B2 - South	ern Parapet
1032-3880	Bridge F1B2 - Construct Int. Double Noise Encl. Bridge F1B2	48	13-Jan-18	13-Mar-18	-			
1032-3900	Bridge F1B2 - Bridge F1C Deck Road Waterproofing, Surfacing & Marking	7	14-Mar-18	21-Mar-18	-			
Bridge F1B		,						
1032-1740		57	16-Dec-17 A	01-Mar-18				
1032-1740	· · ·	30	29-Dec-17	02-Feb-18	-			Bridge F1B1 - Construct Med
1032-1780	Bridge F1B1 - Construct Int. Double Noise Encl. Bridge F1B2	46		13-Mar-18	-			
1032-1780		40	16-Jan-18	10-11/181-18				
Remaini	ng Level of Effort Remaining Work						Contract HY/2009/19	
Actual Le	evel of Effort Critical Remaining Work			Three	N <i>1</i> .4	onthe Dell		a 10 Mar 2019)
Actual W	/ork    Milestone			intee	IVIC		ing Programme (20.Dec.2017 t	U 13.1VId1.2010)

				March		
18	25		04	11	18	25
g						
		Destate	NI	Tuel (00) (		
	!-			Encl. (83m) (		
dge F3B - De	ck Road	Waterpr	oofing,	Surfacing &	Marking	
vert 2 Lane T	raffic (S	tage 2)				
g						
		Datation		Longiture 1	Otitobie	
	i	Bridge	F1B2 -	Longitudinal	Stitching	
	1			Bridge	e F1B2 - Co	nstruct Int.
				-		ge F1B2 -
		Bridge	F1B1 -	Longitudinal	Stitching	
Median Barr	iers					
	-			Duial		
	i			Briage	e F1B1 - Co	istruct int.
			1			
				Page	e 1 of 5	

ivity ID	Activity Name	Rem Dur	Start	Finish	er 2017 2018 February February
1032-1800	Bridge F1B1 - Bridge F1C Deck Road Waterproofing, Surfacing & Marking	7	14-Mar-18	21-Mar-18	<u>17 24 31 07 14 21 28 04 11</u>
Bridge F5					
1032-3980	Bridge F5 Deck Surfacing & Marking	5	08-Jan-18	13-Jan-18	Bridge F5 Deck Surfacing & Marking
1032-4000	TTA Cutting of Deck Bet Temp. TD & E/B,Cons. of Parapet,Noise	0	15-Feb-18		◆ TTAC
1032-4040	Encl.(Northside) start Cutting of Deck Between Temp. TD & E/B > Pier F5-F8	12	15-Feb-18	03-Mar-18	
1032-4060	Cutting of Deck Between Temp. TD & E/B > Pier F8-F11	12	05-Mar-18	17-Mar-18	
1032-4100	Construction Parapet (Northside) > Pier F5-F8	12	26-Feb-18	10-Mar-18	
All Middle B	ridge F (Common)				
1032-4220	Bridge F TCSS/E&M Ducts and Supports (F1B1, F1B2, F2B, F3B)	17	25-Oct-17 A	10-Jan-18	Bridge F TCSS/E&M Ducts and Supports (F1B1, F1B2, F2B, F3B)
1032-4240	Fresh Water Main 150DI at Bridge F Deck	67	27-Nov-17 A	13-Mar-18	
1032-4260	Bridge F Sign Gantries and Misc. Mounting Structure/Support	46	26-Dec-17	21-Feb-18*	
1032-4354	TCSS/LV Ducts at Zone 7 (Nigth work)	15	18-Dec-17 A	08-Jan-18	TCSS/LV Ducts at Zone 7 (Nigth work)
1032-4355	TCSS/LV Ducts at Zone 2 (daywork)	7	18-Dec-17 A	28-Dec-17	TCSS/LV Ducts at Zone 2 (daywork)
1032-4356	Sign Gantry (DS06B,DS06A & FADS06) (Nigth work)	50	22-Feb-18	24-Apr-18	
10.6 - Tunnel	Approach Ramp				
10.6.1 - Appro	oach Ramp (Excluding Portion IIB)				
Structure W	forks				
1061-6260	Bay 5 & 6 > Side Wall - Upper Portion - Rebar Fixing	4	18-Dec-17 A	23-Dec-17	Bay 5 & 6 > Side Wall - Upper Portion - Rebar Fixing
1061-6280	Bay 5 & 6 > Side Wall - Upper Portion - Complete Formworks	4	22-Dec-17	27-Dec-17	Bay 5 & 6 > Side Wall - Upper Portion - Complete Formworks
1061-6300	Bay 5 & 6 > Side Wall - Upper Portion - Concreting	1	28-Dec-17	28-Dec-17	Bay 5 & 6 > Side Wall - Upper Portion - Concreting
1061-6620	Bay 7 & 8 > Side Wall - Upper Portion - Install Waterproofing Membrane	3	20-Dec-17	22-Dec-17	Bay 7 & 8 > Side Wall - Upper Portion - Install Waterproofing Membrane
1061-6640	Bay 7 & 8 > Side Wall - Upper Portion - Rebar Fixing	4	22-Dec-17	27-Dec-17	Bay 7 & 8 > Side Wall - Upper Portion - Rebar Fixing
1061-6660	Bay 7 & 8 > Side Wall - Upper Portion - Complete Formworks	3	27-Dec-17	29-Dec-17	Bay 7 & 8 > Side Wall - Upper Portion - Complete Formworks
1061-6680	Bay 7 & 8 > Side Wall - Upper Portion - Concreting	1	30-Dec-17	30-Dec-17	Bay 7 & 8 > Side Wall - Upper Portion - Concreting
1061-6820	Bay 1 - 8 > Side Wall - Backfilling Works	17	01-Dec-17 A	10-Jan-18	Bay 1 - 8 > Side Wall - Backfilling Works
Retaining W	/alls & Trough Structure B,C & D				
1061-6860	Construct Retaining Wall E Pile Cap (7 nos)	26	06-Mar-17 A	20-Jan-18	Construct Retaining Wall E Pile Cap (7 nos)
1061-6880	Construct Retaining Wall E2 (Ch 5371 - 5398)	18	12-Jan-18	01-Feb-18	Construct Retaining Wall E2 (
1061-6900	Construct Retaining Wall E1 (Ch 5332 - 5371)	18	22-Jan-18	10-Feb-18	Construct Ret
1061-6985	Parapet at Wall above Retaining Wall F	35	20-Dec-17	31-Jan-18	Parapet at Wall above Retaining
1061-6987	Parapet at Wall above Retaining Wall E3	16	20-Dec-17	09-Jan-18	Parapet at Wall above Retaining Wall E3
1061-6989	Parapet at Wall above Retaining Wall E1 & 2	35	02-Feb-18	17-Mar-18	
1061-7000	Backfill to Road Founding Level	14	22-Jan-18	06-Feb-18	Backfill to Road Foun
1061-7020	Falseworks System for Landscape Deck	18	07-Feb-18	02-Mar-18	
1061-7040	Excavate for Foundation of Retaing Wall D	7	30-Jan-18	06-Feb-18	Excavate for Foundat
1061-7060	Construct Retaining Wall D Footing (Ch 190 - 170)	18	07-Feb-18	02-Mar-18	
1061-7080	Construct Retaining Wall D (Ch 190 - 170)	24	03-Mar-18	31-Mar-18	
1061-7120	Excavate to Founding Level Trough B Structure	12	07-Feb-18	23-Feb-18	

Actual Level of Effort

Actual Work

Critical Remaining Work

♦ Milestone

					Maxala			
/	25		04		March	18		25
	23		J-				Bridge	e F1B1 -
							Dilage	
TA Cutting of	Deck Bet T	emp. T	D & E	/B,Co	ns. of P	arapet,I	Noise E	ncl.(Nor
					<b>D</b>	<b>. .</b>	<b>TD</b> 0	E (D. D.
		Gut	ting of	Deck	Betwee	n iemp	. ID &	E/B > Pi
						Cuttin	g of De	ck Betw
	<u></u>							
				Co	nstructio	n Parap	pet (No	orthside)
B)								
					Eroch	Wator	Main 1	50DI at I
	1				Fiesh	valer	IVIAIIIII	SUDIAL
Brid	ge F S <sup>i</sup> ign (	Gantrie	s and	Misc.	Mountin	g Struc	ture/Su	upport
E0 (0h E071	E200							
E2 (Ch 5371 -	2398)							
Retaining Wa	all E1 (Ch 5	5332 - 9	5371)					
			,					
aining Wall F								
						Parap	et at W	/all abov
Founding Love								
Founding Leve	1							
		False	works	Syste	m for La	andscap	e Decl	ĸ
and all the								
Indation of Re	aing wall	U						
		Cons	truct R	etaini	ng Wall	D Footi	ing (Cł	n 190 - 1
		Eauro	dinala			Structure	ro	
	Excavate to	JUUN	ung Le		i ouyri B	SiluCill	1C	
	i ·				(	Constru	ct Trou	igh Struc
	1							
					Page	e 2 of 5	i	
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Activ	ty ID	Activity Name	Rem	Start	Finish	2017 2018 or Entrance
			Dur			er January February 17 24 31 07 14 21 28 04 11 1
	1061-7160	Construct Trough Structure B Side Walls	24	17-Mar-18	17-Apr-18	
	1061-7180	Excavate to Founding Level Trough C Structure	14	14-Feb-18	05-Mar-18	
	1061-7200	Construct Trough Structure C Base Slab	18	06-Mar-18	26-Mar-18	
	Landscape I	Deck				
	1061-7260	Ch 5331 - 5419 > Construct LD Middle Pile Cap (7nos)	9	20-Nov-17 A	30-Dec-17	Ch 5331 - 5419 > Construct LD Middle Pile Cap (7nos)
	1061-7280	Bay 5 & 6 > Ch 5262 - 5292 - Construct Columns (6 nos)	12	29-Dec-17	12-Jan-18	Bay 5 & 6 > Ch 5262 - 5292 - Construct Columns (6 nos)
	1061-7300	Bay 5 & 6 > Ch 5262 - 5292 - Beam & Deck (30m)	23	13-Jan-18	08-Feb-18	Bay 5 & 6 > Ch 5262
	1061-7320	Bay 4 > Ch 5292 - 5303 - Construct Columns (3 nos)	9	11-Dec-17 A	30-Dec-17	Bay 4 > Ch 5292 - 5303 - Construct Columns (3 nos)
	1061-7340	Bay 4 > Ch 5292 - 5303 - Beam & Deck (12m)	24	02-Jan-18	29-Jan-18	Bay 4 > Ch 5292 - 5303 - Beam & De
	1061-7360	Bay 7 & 8 > Ch 5232 - 5262 - Construct Columns (9 nos)	12	13-Jan-18	26-Jan-18	Bay 7 & 8 > Ch 5232 - 5262 - Construct Co
	1061-7380	Bay 7 & 8 > Ch 5232 - 5262 - Beam & Deck (30m)	23	20-Jan-18	15-Feb-18	Bay 7 &
	1061-7400	Bay 1 to 3 > Ch 5303 - 5331 > Construct Columns (9 nos)	14	11-Dec-17 A	06-Jan-18	Bay 1 to 3 > Ch 5303 - 5331 > Construct Columns (9 nos)
	1061-7420	Bay 1 to 3 > Ch 5303 - 5331 > Beam & Deck	23	08-Jan-18	02-Feb-18	Bay 1 to 3 > Ch 5303 - 5331 >
	1061-7440	Ch 5331 - 5419 > Construct Columns (23nos)	12	02-Jan-18	15-Jan-18	Ch 5331 - 5419 > Construct Columns (23nos)
	1061-7460	Ch 5331 - 5419 > Beam & Deck	23	20-Jan-18	15-Feb-18	Ch 533
ľ	10.6.2 - Appro	pach Ramp (Within Portion IIB)				
Г	ELS					
	A1080	ELS Installation and Excavation Part 6 (750m <sup>3</sup> / day)	3	04-Dec-17 A	22-Dec-17	ELS Installation and Excavation Part 6 (750m^3 / day)
	A1090	ELS Installation and Excavation Part 7 (750m <sup>3</sup> / day)	6	19-Dec-17 A	27-Dec-17	
	A1100	ELS Installation and Excavation Part 8 (750m <sup>3</sup> / day)	7	22-Dec-17	30-Dec-17	
	Structure					
	Bay 1					
	Base Slab					
	A1120	Water Proofing Membrane	2	20-Dec-17	21-Dec-17	Water Proofing Membrane
	A1130	Rebar fixing	4	22-Dec-17	27-Dec-17	
	A1140	Erect Formwork	4	26-Dec-17	29-Dec-17	Erect Formwork
	A1150	Remove Formwork and Apply Vertical Water Proofing	2	30-Dec-17	02-Jan-18	Remove Formwork and Apply Vertical Water Proofing
	Wall - Low		6	00 1 10	04 1-1 10	
	A1160	Remove S3 and S4 Strut + Waling	2	03-Jan-18	04-Jan-18	Remove S3 and S4 Strut + Waling
	A1170	Erect Working Platform and Rebar Fixing	2	05-Jan-18	06-Jan-18	Erect Working Platform and Rebar Fixing
	A1180	Erect and Formwork	3	08-Jan-18	10-Jan-18	Erect and Formwork
	A1190	Concreting	1	11-Jan-18	11-Jan-18	
	A1200	Vertical Water Proofing	1	12-Jan-18	12-Jan-18	Vertical Water Proofing
	A1210	Backfilling	3	13-Jan-18	16-Jan-18	Backfilling
	Wall - Upp	er Portion				
	A1220	Remove S1 and S2 Strut + Waling	2	17-Jan-18	18-Jan-18	Remove S1 and S2 Strut + Waling
	A1230	Erect Working Platform and Rebar Fixing	3	19-Jan-18	22-Jan-18	Erect Working Platform and Rebar Fixing
	A1240	Erect and Formwork	3	23-Jan-18	25-Jan-18	Erect and Formwork
	A1250	Concreting	1	26-Jan-18	26-Jan-18	
		Į				
i —	D	a Lovel of Effort				

 Remaining Level of Effort
 Remaining Work Actual Level of Effort

Actual Work

Critical Remaining Work 

Milestone

			March		
18	25	04	11	18	25
		Excava	ate to Foundir	ng Level Tro	ough C Stru
h 5262 - 529	2 - Beam &	Deck (30m)			
n & Deck (12n uct Columns	(9 nos)				
ay 7 & 8 > Cł		62 - Beam &	Deck (30m)		
331 > Beam	& Deck				
h 5331 - 541	9 > Beam &	& Deck			
	i		5	- 2 - 6 5	
			Page	e 3 of 5	

Acti	vity ID	Activity Name	Rem Dur	Start	Finish	or	2017	January	2018 February
			Dur			e، 1	7 24	31 07 14 21 2	8 04 11
	A1260	Vertical Water Proofing	1	27-Jan-18	27-Jan-18			Verti	cal Water Proofing
	Bay 2								
	Base Slab								
	A1270	Blinding	1	23-Dec-17	23-Dec-17		Blinding		
	A1280	Water Proofing Membrane	2	26-Dec-17	27-Dec-17		🗖 Wate	r Proofing Membrane	
	A1290	Rebar fixing	4	28-Dec-17	02-Jan-18			Rebar fixing	
	A1300	Erect Formwork	4	03-Jan-18	06-Jan-18			Erect Formwork	
	A1310	Remove Formwork and Apply Vertical Water Proofing	2	08-Jan-18	09-Jan-18			Remove Formwork and Apply Vertic	al Water Proofing
	Wall - Low	ver Portion				1			
	A1320	Remove S3 and S4 Strut + Waling	2	10-Jan-18	11-Jan-18			Remove S3 and S4 Strut + Walir	ġ
	A1330	Erect Working Platform and Rebar Fixing	2	12-Jan-18	13-Jan-18			Erect Working Platform and F	Rebar Fixing
	A1340	Erect and Formwork	3	15-Jan-18	17-Jan-18			Erect and Formwork	
	A1350	Concreting	1	18-Jan-18	18-Jan-18			Concreting	
	A1360	Vertical Water Proofing	1	19-Jan-18	19-Jan-18	1		Vertical Water Pro	ofing
	A1370	Backfilling	3	20-Jan-18	23-Jan-18			Backfilling	
	Wall - Upp	per Portion							
	A1380	Remove S1 and S2 Strut + Waling	2	24-Jan-18	25-Jan-18			E Remove	S1 and S2 Strut + Waling
	A1390	Erect Working Platform and Rebar Fixing	3	26-Jan-18	29-Jan-18			<b>E</b>	rect Working Platform and Rebar
	A1400	Erect and Formwork	3	30-Jan-18	01-Feb-18				Erect and Formwork
	A1410	Concreting	1	02-Feb-18	02-Feb-18				Concreting
	A1420	Vertical Water Proofing	1	03-Feb-18	03-Feb-18				Vertical Water Proofing
	Bay 3								
	Base Slab								
	A1430	Blinding	1	02-Jan-18	02-Jan-18			Blinding	
	A1440	Water Proofing Membrane	2	03-Jan-18	04-Jan-18			Water Proofing Membrane	
	A1450	Rebar fixing	4	05-Jan-18	09-Jan-18			Rebar fixing	
	A1460	Erect Formwork	4	08-Jan-18	11-Jan-18			Erect Formwork	
	A1470	Remove Formwork and Apply Vertical Water Proofing	2	12-Jan-18	13-Jan-18			Remove Formwork and Apply	Vertical Water Proofing
	Wall - Low	ver Portion							
	A1480	Remove S3 and S4 Strut + Waling	2	15-Jan-18	16-Jan-18			Remove S3 and S4 Structure	t + Waling
	A1490	Erect Working Platform and Rebar Fixing	2	17-Jan-18	18-Jan-18			Erect Working Platfo	rm and Rebar Fixing
	A1500	Erect and Formwork	3	19-Jan-18	22-Jan-18			Erect and For	rmwork
	A1510	Concreting	1	23-Jan-18	23-Jan-18			Concreting	
	A1520	Vertical Water Proofing	1	24-Jan-18	24-Jan-18			Vertical W	ater Proofing
	A1530	Backfilling	3	25-Jan-18	27-Jan-18			Back	filling
	Wall - Upp	per Portion							
	A1540	Remove S1 and S2 Strut + Waling	2	29-Jan-18	30-Jan-18				Remove S1 and S2 Strut + Walin
	A1550	Erect Working Platform and Rebar Fixing	2	31-Jan-18	01-Feb-18				Erect Working Platform and F
	A1560	Erect and Formwork	3	02-Feb-18	05-Feb-18				Erect and Formwork
									1 1
		ng Level of Effort Bemaining Work	1						

 Remaining Level of Effort
 Remaining Work Actual Level of Effort Actual Work

Critical Remaining Work 

♦ ♦ Milestone

		 	M	arch			
18	25	04	11		18	2	25
r Fixing							
ing							
Rebar Fixing							
	<u>i</u>						
				Page 4	of 5		
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		1					

ctivity ID	Activity Name	Rem	Start	Finish	<b>0</b> .*	2017						2018
		Dur			er 17	24	31	07	January 14	21	28	February
A1570	Concreting	1	06-Feb-18	06-Feb-18			<b>k</b>		L	- <b>I</b>	L	Concreting
A1580	Vertical Water Proofing	1	07-Feb-18	07-Feb-18								Vertical Water Proo
Bay 4												
Base Sla	b											
A1590	Blinding	1	12-Jan-18	12-Jan-18				•	Blinding			
A1600	Water Proofing Membrane	2	13-Jan-18	15-Jan-18				ſ	Wate	er Proofing N	Nembrane	1 1 2 4
A1610	Rebar fixing	4	16-Jan-18	19-Jan-18						Rebar fixir	ng	
A1620	Erect Formwork	4	20-Jan-18	24-Jan-18							Frect Forn	work
A1630	Remove Formwork and Apply Vertical Water Proofing	2	25-Jan-18	26-Jan-18							Remov	e Formwork and Apply Vertical Wa
Wall - Lo	wer Portion						- <del>1</del>					 
A1640	Remove S3 and S4 Strut + Waling	2	27-Jan-18	29-Jan-18							R	emove S3 and S4 Strut + Waling
A1650	Erect Working Platform and Rebar Fixing	2	30-Jan-18	31-Jan-18								Erect Working Platform and Ret
A1660	Erect and Formwork	3	01-Feb-18	03-Feb-18								Erect and Formwork
A1670	Concreting	1	05-Feb-18	05-Feb-18								Concreting
A1680	Vertical Water Proofing	1	06-Feb-18	06-Feb-18	+		- 1					Vertical Water Proofir
A1690	Backfilling	3	07-Feb-18	09-Feb-18								Backfilling
Wall - Up	oper Portion			1								
A1710	Remove S1 and S2 Strut + Waling	2	10-Feb-18	12-Feb-18								Remove S
A1720	Erect Working Platform and Rebar Fixing	2	13-Feb-18	14-Feb-18								🔲 Erect V
A1730	Erect and Formwork	3	15-Feb-18	21-Feb-18			- <del>;</del>					
A1740	Concreting	1	22-Feb-18	22-Feb-18								
A1750	Vertical Water Proofing	1	23-Feb-18	23-Feb-18								
Bay 5												
Base Sla	b											, 1 1 1
A1760	Blinding	1	25-Jan-18	25-Jan-18							Blinding	, , , , ,
A1770	Water Proofing Membrane	2	26-Jan-18	27-Jan-18						I	Wate	r Proofing Membrane
A1780	Rebar fixing	4	29-Jan-18	01-Feb-18								Rebar fixing
A1790	Erect Formwork	4	31-Jan-18	03-Feb-18								Erect Formwork
A1800	Remove Formwork and Apply Vertical Water Proofing	2	05-Feb-18	06-Feb-18								Remove Formwork a
Wall - Lo	wer Portion			1								
A1810	Remove S3 and S4 Strut + Waling	2	07-Feb-18	08-Feb-18								Remove S3 and S
A1820	Erect Working Platform and Rebar Fixing	2	09-Feb-18	10-Feb-18	1							Erect Working
A1830	Erect and Formwork	3	12-Feb-18	14-Feb-18								Erect a
A1840	Concreting	1	15-Feb-18	15-Feb-18	1							Conc
A1850	Vertical Water Proofing	1	20-Feb-18	20-Feb-18								
A1860	Backfilling	3	21-Feb-18	23-Feb-18								

Actual Level of Effort Critical Remaining Work 

Actual Work

♦ ♦ Milestone

				Mar	ch		
18	25		04	11		18	25
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Nater Proc	fing						
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ebar Fixing	1						
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S1 and S2	Strut 4	- Waling					
Working F			r Eiving	N			
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0	Vertical	Water Pro	oofing				
and Apply	Vertica	Water Pro	oofing				
I S4 Strut +	Walin	q					
ng Platform			r				
			1				
and Form	work						
ncreting							
Vertic	al Wate	er Proofing					
	Backfilli	ng					
				P	age 5	of 5	
				1	0000		
			1				

vity ID	Activity Name	Rem	Start	Finish						Yebruary       Mar         11       18       25       04       11         (43Nos) > Facility Area 5 & 10       on of Steel Roof > Facility Area 5 & 10         prinkler System Installation > Facility Area 5 & 10         T & C of Sprinkler System > Facility Area 5 & 10         Post (73Nos) > Facility Area 6, 8 & 9         Bridge F3B - Construct Int. Double Noise Encl. (i         Bridge F3B - Deck Road Waterproofing, Surfax         Divert 2 Lane Traffic (Stage 2)         Bridge F1B2 - Longituc         Parapet         Bridge F1B2 - Construct I         Bridge F1B2 - Construct I         Bridge F1B1 - Construct I         Cutting of Deck Bei         Constru			ah		
		Dur			У	21	28	04			18	25	04	Mar 11	un l
3MRP (Jan	2018 - April 2018)						1	-					·		-
03 - PRELI	MINARY WORKS														
03.3 - Interfa	ce Works														
FEHD Perma	inent Depot														
0330-1071	Installation of Post (43Nos) > Facility Area 5 & 10	6	22-Jan-18*	27-Jan-18			🔳 Installa	ation of Po	ost (43N	os) > Fa	cility Area 5	& 10			
0330-1073	Construction of Steel Roof > Facility Area 5 & 10	6	26-Jan-18	01-Feb-18	1			Constru	iction of	Steel Ro	of > Facility	Area 5 &	10		
0330-1075	Sprinkler System Installation > Facility Area 5 & 10	7	31-Jan-18	07-Feb-18			Ļ		Sprink	der Syste	m Installatio	on > Faci	lity Area 5 &	10	
0330-1077	T & C of Sprinkler System > Facility Area 5 & 10	6	08-Feb-18	14-Feb-18						🔲 Т&	C of Sprink	der Syste	em > Facility A	Area 5 & 10	)
0330-1081	Installation of Post (73Nos) > Facility Area 6, 8 & 9	9	20-Jan-18	30-Jan-18			ir	nstallation	of Post	(73Nos)	> Facility Ar	ea 6, 성 &	9		
10 - SECTI	ON X OF THE WORKS														
10.3 - Middle	Bridge (Bridge F)														
10.3.2 - Bridg	ge Construction														
Bridge F3B															
1032-2562	Bridge F3B - Construct Int. Double Noise Encl. (83m) (stage 2)	21	15-Jan-18 A	13-Feb-18						Bridg	e F3B - Cor	nstruct In	it. Double No	ise Encl. (8	33m)
1032-2563	Bridge F3B - Deck Road Waterproofing, Surfacing & Marking	6	08-Feb-18	14-Feb-18						Brid	lge F3B - D	eck Rpa	d Waterproof	ing, Surfac	;ing a
1032-2564	Divert 2 Lane Traffic (Stage 2)	0	15-Feb-18							♦ Div	vert 2 Lane	Traffic (S	Stage 2)		
Bridge F1B	2														
1032-3840		27	19-Jan-18 A	01-Mar-18		(	1					1	Bridge F1B2	2 - Longitud	linal
1032-3860		5	14-Dec-17 A	25-Jan-18			Bridge F1	B2 - Sout	hern Pa	rapet			U U	Ū	
1032-3880		30	13-Jan-18 A	27-Feb-18						•		Bri	idae F1B2 - (	Construct I	nt. D
1032-3900		7	02-Mar-18	09-Mar-18								 			
Bridge F1B														2.109011	
1032-1740		0	16-Dec-17 A	17-Jan-18 A	Brin	ae F1R1	- Lonaitudi	nal Stitchi	na						
1032-1780		30	16-Jan-18 A	27-Feb-18		ger ibi	Longitua		''g			Bri	idae E1B1 - (	Construct l	nt D
1032-1800	Bridge F1B1 - Bridge F1C Deck Road Waterproofing, Surfacing & Marking	7	02-Mar-18	09-Mar-18											
	bildger ibi - bildger ic beck hoad waterprotting, suffacting & warking	/	02-1110	09-1011-10								· · · · · · · · · · · · · · · ·			· · · · ·
Bridge F5	Cutting of Deck Between Temp. TD & E/B > Pier F5-F8	10	15-Feb-18	02 Mar 18										f Dook Pot	
1032-4040		12		03-Mar-18										I Deck Del	
1032-4060		12	05-Mar-18	17-Mar-18	-										
1032-4080		12	19-Mar-18	03-Apr-18	_										- 1 <sup>2</sup> - 12
1032-4100		12	26-Feb-18	10-Mar-18											
1032-4120		12	12-Mar-18	24-Mar-18											
1032-4140		12	26-Mar-18	11-Apr-18											
1032-4160	Construct Noise Enclosure (Northside) > Pier F5 - F8	24	12-Mar-18	11-Apr-18											
	Bridge F (Common)														
1032-4240		52	27-Nov-17 A	24-Mar-18	Ħ		i 								
1032-4260	Bridge F Sign Gantries and Misc. Mounting Structure/Support	25	26-Dec-17 A	21-Feb-18*	Ħ						Bric	lge F Sig	n Gantries ai	nd Misc. M	ounti
1032-4356	Sign Gantry (DS06B,DS06A & FADS06) (Nigth work)	50	22-Feb-18	24-Apr-18											

Actual Work

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

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& Marking						
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Stitching		1 1 1 1				
Double No	ise Encl. B	ridge F1	32			
Bridge F	1C Deck F	load Wat	erproofing, S	urfacing & M	larking	
		1 1 1 1				
Double No	ise Encl. B	ridge F1	32			
Bridge F	1C Deck F	oad Wat	erproofing, Si	urfacing & M	larking	
		 	-			
en Temo T	TD & E/B >	Pier F5-I	F8			
-		1	p. TD & E/B >	Dior EQ E1	1	
		1 1	-			, <b>–</b> /~
_		1	utting of Deck	Between Te	emp. I D &	≰ E/Β
n Parapet	(Northside	e) > Pier F	5-F8			
	Construc	tion Para	pet (Northsid	e) > Pier F8-	F11	
		1	Co	onstruction P	arapet (N	Vorths
			Co	onstruct Nois	e Enclos	ure (l
	Fresh Wa	ater Main	150DI at Brid	lge FDeck		
ting Struc	ture/Suppo					
<b>J</b>	. 1-17 -	1			Sir	jn Ga
						, ud
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				Page 1 of 4	ŧ	

D	Activity Name	Rem Dur	Start	Finish	v				February	/			018 Ma	arch
0.C. Turnel	Approach Ramp				Ľ-	21	28	04	11	18	25	04	11	
	pach Ramp (Excluding Portion IIB)										1			
Structure We														
			11 Jan 10 A	00 Jan 10		Dev 7 (				and at a Far				
1061-6660		1	11-Jan-18 A	20-Jan-18		-			Portion - Con	-				
1061-6680	Bay 7 & 8 > Side Wall - Upper Portion - Concreting	1	22-Jan-18	22-Jan-18	Ц	U Bay	788>\$	ide Wall - Up	perPortion - (	-				
1061-6820	Bay 1 - 8 > Side Wall - Back filling Works	17	01-Dec-17 A	08-Feb-18					Bay 1 - 8 > S	Side Wall -	Backfilling	Works		
	alls & Trough Structure B,C & D													
1061-6860		28	06-Mar-17 A	24-Feb-18								uct Retaining	g Wall E Pi	eCap
1061-6880	Construct Retaining Wall E2 (Ch 5371 - 5398)	14	20-Jan-18	05-Feb-18				Cor	struct Retain	ing Wall E	2 (Ch 5371	- 5398)		
1061-6900	Construct Retaining Wall E1 (Ch 5332 - 5371)	18	26-Feb-18	17-Mar-18										
1061-6985	Parapet at Wall above Retaining Wall F	10	21-Dec-17 A	31-Jan-18	Þ			Parapet at V	Vall above Re	etaining Wa	all F			
1061-6989	Parapet at Wall above Retaining Wall E2	14	06-Feb-18	24-Feb-18							Parapet	tatWallabo	ove Retaini	ng W
1061-6990	Parapet at Wall above Retaining Wall E1	18	19-Mar-18	11-Apr-18										ſ
1061-7010	Backfilling to form flat level	7	18-Jan-18 A	27-Jan-18	Þ		Backt	filling to form	flat level					
1061-7020	Falseworks System for Landscape Deck	18	29-Jan-18	21-Feb-18						F	alseworks	System for L	Landscape	) Dec
1061-7040	Excavate for Foundation of Retaing Wall D	7	22-Feb-18	01-Mar-18								Excavate fo	or Foundat	ion o
1061-7060	Construct Retaining Wall D Footing (Ch 1 90 - 170)	18	02-Mar-18	22-Mar-18							[			
1061-7080	Construct Retaining Wall D (Ch 190 - 170)	24	23-Mar-18	23-Apr-18										
1061-7120	Excavate to Founding Level Trough B Structure	12	02-Mar-18	15-Mar-18			i							Exc
1061-7140	Construct Trough Structure B Base Slab	24	16-Mar-18	16-Apr-18										
1061-7160	Construct Trough Structure B Side Walls	24	17-Apr-18	15-May-18										
1061-7180	Excavate to Founding Level Trough C Structure	14	09-Mar-18	24-Mar-18										
1061-7200	Construct Trough Structure C Base Slab	18	26-Mar-18	18-Apr-18										
Landscape I				·										
	Ch 5331 - 5419 > Construct LD Middle Pile Cap (7nos)	7	20-Nov-17 A	27-Jan-18			Ch 5	331 - 5419 >	Construct LD	Middle Pil	e Cap (7no	s)		
1061-7280		12	11-Jan-18 A	02-Feb-18					6 > Ch 5262 -			,	s)	
1061-7300	Bay 5 & 6 > Ch 5262 - 5292 - Beam & Deck (30m)	23	03-Feb-18	05-Mar-18	Π					0202 00			5 & 6 > Ch	5260
1061-7320	Bay 4 > Ch 5292 - 5303 - Construct Columns (3 nos)	9	11-Dec-17 A	30-Jan-18				Bay A > Ch 5	292 - 5303 - C	`onetruct (	Columns (3	-		0201
1061-7340	Bay 4 > Ch 5292 - 5303 - Beam & Deck (12m)	24	31-Jan-18	02-Mar-18								Bay 4 > C	h 5000 5	202
										Ba	V 7 8 9 0 0			
1061-7360		12	03-Feb-18	20-Feb-18						Ba	y / œo>¦U	h 5232 - 526		
1061-7380	Bay 7 & 8 > Ch 5232 - 5262 - Beam & Deck (30m)	23	10-Feb-18	12-Mar-18									-	788
1061-7420	Bay 1 to 3 > Ch 5303 - 5331 > Beam & Deck	23	03-Feb-18	05-Mar-18						E 4 1 0		-	1 to 3 > Ch	530
	Ch 5331 - 5419 > Construct Columns (23nos)	12	29-Jan-18	10-Feb-18					Ch 5331	- 5419 > C	Construct C	olumns (23r	, 	
	Ch 5331 - 5419 > Beam & Deck	23	12-Feb-18	13-Mar-18										h 533
10.6.2 - App ro	bach Ramp (Within Portion IIB)													
Structure														
Bay 1														

Remaining Level of Effort		Remaining Work
<ul> <li>Actual Level of Effort</li> </ul>		Critical Remaining
Actual Work	• •	Milestone

Critical Remaining Work Milestone ٠

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18	25	01	08	15	22	29
						1
(7 nos)		   				
nstruct	Retaining	Wall E1 (	Ch 5332 - 537	1)		
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IE2		1 1 1		<u> </u>		
			Par	apet at Wal	I above R	etain
					-	
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Retaing	Wall D					
C	onstruct Re	etaining V	Vall D Footing	(Ch190-1	70)	
					Cons	struct
ato to 5	ounding		ah B Structure			
aie 10 F		evel Irou	gh B Structure		. –	
				Constr	uct Troug	h Str
	Excavate	to Found	ding Level Trou	igh C Struc	ture	1
				Cor	nstruct Tro	ough
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5292 -	Beam & De	eck (30m	1)			
		1 1 1				
eam &	Deck (12m	)				
lumns (	(9 nos)					
		Beam &	Deck (30m)			
	> Beam & D					
0001>	> Dealli & D	CK				
						, , , ,
- 5419	> Beam & [	Deck				
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Activ	vity ID	Activity Name	Rem	Start	Finish	2018
			Dur			y February March 21 28 04 11 18 25 04 11
	Wall - Low	er Portion		•	•	
	A1160	Remove S3 and S4 Strut + Waling	2	30-Jan-18	31-Jan-18	Remove S3 and S4 Strut + Waling
	A1170	Erect Working Platform and Rebar Fixing	2	01-Feb-18	02-Feb-18	Erect Working Platform and Rebar Fixing
	A1180	Erect and Formwork	3	03-Feb-18	06-Feb-18	Erect and Formwork
	A1190	Concreting	1	07-Feb-18	07-Feb-18	Concreting
	A1200	Vertical Water Proofing	1	08-Feb-18	08-Feb-18	Vertical Water Proofing
	A1210	Backfilling	3	09-Feb-18	12-Feb-18	Backfilling
	Wall - Upp	er Portio n			1	
	A1220	Remove S1 and S2 Strut + Waling	2	13-Feb-18	14-Feb-18	Remove S1 and S2 Strut + Waling
	A1230	Erect Working Platform and Rebar Fixing	3	15-Feb-18	21-Feb-18	Erect Working Platform and Rebar Fix
	A1240	Erect and Formwork	3	22-Feb-18	24-Feb-18	Erect and Formwork
	A1250	Concreting	1	26-Feb-18	26-Feb-18	Concreting
	A1260	Vertical Water Proofing	1	27-Feb-18	27-Feb-18	Vertical Water Proofing
	Bay 2					
	Wall - Low	er Portion				
	A1320	Remove S3 and S4 Strut + Waling	2	27-Jan-18	29-Jan-18	Remove S3 and S4 Strut + Waling
	A1330	Erect Working Platform and Rebar Fixing	2	30-Jan-18	31-Jan-18	Erect Working Platform and Rebar Fixing
	A1340	Erect and Formwork	3	01-Feb-18	03-Feb-18	Erect and Formwork
	A1350	Concreting	1	05-Feb-18	05-Feb-18	Concreting
	A1360	Vertical Water Proofing	1	06-Feb-18	06-Feb-18	Vertical Water Proofing
	A1370	Backfilling	3	07-Feb-18	09-Feb-18	Backfilling
	Wall - Upp	er Portio n				
	A1380	Remove S1 and S2 Strut + Waling	2	10-Feb-18	12-Feb-18	Remove S1 and S2 Strut + Waling
	A1390	Erect Working Platform and Rebar Fixing	3	13-Feb-18	15-Feb-18	Erect Working Platform and Rebar Fixing
	A1400	Erect and Formwork	3	20-Feb-18	22-Feb-18	Erect and Formwork
	A1410	Concreting	1	23-Feb-18	23-Feb-18	I Concreting
	A1420	Vertical Water Proofing	1	24-Feb-18	24-Feb-18	Vertical Water Proofing
	Bay 3				<u> </u>	
	Wall - Low	er Portion				
	A1480	Remove S3 and S4 Strut + Waling	2	25-Jan-18	26-Jan-18	Remove S3 and S4 Strut + Waling
	A1490	Erect Working Platform and Rebar Fixing	2	27-Jan-18	29-Jan-18	Erect Working Platform and Rebar Fixing
	A1500	Erect and Formwork	3	30-Jan-18	01-Feb-18	Erect and Formwork
	A1510	Concreting	1	02-Feb-18	02-Feb-18	Concreting
	A1520	Vertical Water Proofing	1	03-Feb-18	03-Feb-18	Vertical Water Proofing
	A1530	Backfilling	3	05-Feb-18	07-Feb-18	Backfilling
	Wall - Upp	er Portio n			<u> </u>	
	A1540	Remove S1 and S2 Strut + Waling	2	08-Feb-18	09-Feb-18	Remove S1 and S2 Strut + Waing
		<u> </u>				

Actual Level of Effort

Actual Work

 Remaining Level of Effort
 Remaining Work Critical Remaining Work 

♦ ♦ Milestone

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						1
				Page 3 of	4	

Activ	ity ID	Activity Name	Rem	Start	Finish	2018
			Dur			y February March 21 28 04 11 18 25 04 11 18
	A1550	Erect Working Platform and Rebar Fixing	2	10-Feb-18	12-Feb-18	Erect Working Platform and Rebar Fixing
	A1560	Erect and Formwork	3	13-Feb-18	15-Feb-18	Erect and Formwork
	A1570	Concreting	1	20-Feb-18	20-Feb-18	Concreting
	A1580	Vertical Water Proofing	1	21-Feb-18	21-Feb-18	Vertical Water Proofing
	Bay 4					
	Wall - Low	er Portion				
	A1640	Remove S3 and S4 Strut + Waling	2	23-Jan-18	24-Jan-18	Remove \$3 and \$4 Strut + Waling
	A1650	Erect Working Platform and Rebar Fixing	2	25-Jan-18	26-Jan-18	Erect Working Platform and Rebar Fixing
	A1660	Erect and Formwork	3	27-Jan-18	30-Jan-18	Erect and Formwork
	A1670	Concreting	1	31-Jan-18	31-Jan-18	D Concreting
	A1680	Vertical Water Proofing	1	01-Feb-18	01-Feb-18	Vertical Water Proofing
	A1690	Backfilling	3	02-Feb-18	05-Feb-18	Backfilling
	Wall - Uppe	er Portion				
	A1710	Remove S1 and S2 Strut + Waling	2	06-Feb-18	07-Feb-18	Remove S1 and S2 Strut + Waling
	A1720	Erect Working Platform and Rebar Fixing	2	08-Feb-18	09-Feb-18	Erect Working Platform and Rebar Fixing
	A1730	Erect and Formwork	3	10-Feb-18	13-Feb-18	Erect and Formwork
	A1740	Concreting	1	14-Feb-18	14-Feb-18	Concreting
	A1750	Vertical Water Proofing	1	15-Feb-18	15-Feb-18	Vertical Water Proofing
	Bay 5					
	Wall - Low	er Portion				
	A1810	Remove S3 and S4 Strut + Waling	2	20-Jan-18	22-Jan-18	Remove S3 and S4 Strut + Waling
	A1820	Erect Working Platform and Rebar Fixing	2	23-Jan-18	24-Jan-18	Erect Working Platform and Rebar Fixing
	A1830	Erect and Formwork	3	25-Jan-18	27-Jan-18	Erect and Formwork
	A1840	Concreting	1	29-Jan-18	29-Jan-18	Concreting
	A1850	Vertical Water Proofing	1	30-Jan-18	30-Jan-18	Vertical Water Proofing
	A1860	Backfilling	3	31-Jan-18	02-Feb-18	Backfilling
	Wall - Uppe		5	51-5ail-10	02-1 60-10	Dackhining
	A1870	Remove S1 and S2 Strut + Waling	3	03-Feb-18	06-Feb-18	Remove S1 and S2 Strut + Waling
		Erect Working Platform and Rebar Fixing				
	A1880		2	07-Feb-18	08-Feb-18	Erect Working Platform and Rebar Fixing
	A1890	Erect and Formwork	3	09-Feb-18	12-Feb-18	Erect and Formwork
	A1900		1	13-Feb-18	13-Feb-18	Concreting
	A1910	Vertical Water Proofing	1	14-Feb-18	14-Feb-18	Vertical Water Proofing
	Landscape [ 					
		Construct LD Column - Portion IIB (10nos)	36	14-Feb-18	31-Mar-18	
	1062-1260	Construct Landscape Deck Beam/Slab Bay C1	45	03-Mar-18	27-Apr-18	

 Actual Level of Effort 

Actual Work

♦ ♦ Milestone

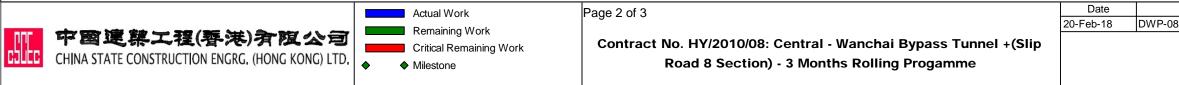
Critical Remaining Work

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		Constr	uct LD Colu	umn - Portion I	IIB (10nos	)
						Cor
						-
				Page 4 of	4	
				-6		

	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			1				
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
		maining Work		. ugo							20	)-Feb-18

						Ap	pe	ndix C	.5
				N	101				lup
				IV	lay				Jun
		rainage							
CN)	(								
ings,	1 no	o. concrete	e plinth)						
/P-0	8 (*	Revisi	on onths Rollin	_	Che TL	cked	A TL	Approve	d
0	5 (4	<u>∟)</u> = 0 IVIC		9			<u> </u>		

ty 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 Walkwa	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	Assiciated drainage works
Reverting Traffic for	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 - IE0	C (East Bound)	6d	28-Feb-18	05-Mar-18	
Reinstatemtmer	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)
TTM Stage 3 - Re	einstatement of Footpath along Seafront	45d	31-Jan-18 A	05-Apr-18	
Reinstatement V	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-18 A	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 SR
Reinstatement of	each laver, 5 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_1570	Laying DN400mm gas main by HKCG at VPR footpath	14d	23-Mar-18	05-Apr-18	Laying DN400mm gas main by HKCG a
	C West Bound & Tsing fung Street	86d	18-Jan-18 A	23-Apr-18	
	evert Traffic back to Original Tsing Fung Street	5d	28-Feb-18	04-Mar-18	
	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	480 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 layer, 5 layers)	3d	14-Mar-18	16-Mar-18	Backfill General Fill Material up to Formation Level (Avg; 1.5m height, by SRT m
	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 slope profile (MS
IECW_1470	Slope Reinstatement of Victoria Park	21d	26-Mar-18	23-Apr-18	Slop
	or 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 Reinstaten	nent 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 and connection by
IECW_1550	Well compact road formation level and subbase for SRT	6d	24-Mar-18	29-Mar-18	Well compact road formation level and subbase for S
Minor Reinstaten	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)
IECW_1630	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_1610	Repairing of extg conc deck surface after milling of temp asphalt at IEC W/B and E/B (Sun midnight only)	59d	08-Mar-18	05-May-18	



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· · · ·	155d	23-Oct-17 A	24-Apr-18	Feb		Mar	Apr	May	
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		23-Oct-17 A							
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1 submission	7d	09-Feb-18 A	13-Feb-18 A	Form WR1 submission					
power on date	7d	14-Feb-18 A	14-Feb-18A	Expected power on data	ate				
	43d	22-Dec-17 A	10-Mar-18						
d water pipe installation	10d	22-Dec-17 A	10-Mar-18			Pump and water pipe installation			
el installation, Breakglass and Alarm	3d	10-Feb-18 A	13-Feb-18 A	Hose Reel installation, B	-				
onnection from u/g to water meter room	2d	24-Feb-18 A	28-Feb-18 A		F:	Spipe connection from u/g to water meter room			
ter Supplies	14d	30-Jan-18 A	15-Mar-18						
of potable water pipe and sampling to WSD	7d	17-Feb-18 A	26-Feb-18 A		Clean	ing of potable water pipe and sampling to WSD			
pection	14d	28-Feb-18	15-Mar-18		-	WSD Inspection			
on	7d	30-Jan-18 A	06-Feb-18 A						
itted drawing submisison to WSD	7d	30-Jan-18 A	06-Feb-18 A	ted drawing submisison to V	NSD				
ery Compound	75d	30-Jan-18 A	24-Apr-18						
	45d	30-Jan-18 A	16-Mar-18						
l at toilet	2d	30-Jan-18 A	31-Jan-18 A						
to shower room u channel	1d	31-Jan-18 A	31-Jan-18 A	om u channel	4				
work at External area	15d	28-Feb-18	16-Mar-18			Drainage work at External area			
	15d	07-Feb-18 A	27-Feb-18 A						
& Salt Water, Fresh Water and Irrigation System	15d	07-Feb-18 A	27-Feb-18 A		FSI	Fresh & Salt Water, Fresh Water and Irrigation System			
ursery Comnpound	45d	28-Feb-18	24-Apr-18						
ment of Existing Boundary Fence Wall Around Nursery Compound	45d	28-Feb-18	24-Apr-18					Reinstatement of Existing Boundary Fence Wall Arour	nd Nursery
tection of Trees	1088d	21-Mar-13 A	21-Jun-18						
tion and Protection of Existing Trees	1088d	21-Mar-13 A	21-Jun-18						
-	979d		28-Feb-18						
Jpkeep at Portion X(10) & XVI(16) - CBTS	979d	· · · ·	28-Feb-18		м	ooring Upkeep at Portion X(10) & XVI(16) - CBTS			
	1 submission power on date water pipe installation l installation, Breakglass and Alarm onnection from u/g to water meter room ter Supplies of potable water pipe and sampling to WSD ection of ted drawing submisison to WSD ery Compound at toilet o shower room u channel work at External area & Salt Water, Fresh Water and Irrigation System Irsery Comnpound ment of Existing Boundary Fence Wall Around Nursery Compound ection of Trees on and Protection of Existing Trees on and Protection of Existing Trees	wall & ceiling in general (final coat)4dne & Chequer Plate1dne & Chequer Plate1dne & Chequer Plate1dne & Chequer Plate7dne & Up of the State7dne & Up of the State <t< td=""><td>wall &amp; celling in general (final coat)4 d15-Mar-18*ne &amp; Chequer Plate1 dd13-Feb-18Ane &amp; Chequer Plate1 dd13-Feb-18Ane &amp; Chequer Plate7 dd21-Feb-18Ane &amp; Chequer Plate7 dd21-Feb-18Ane &amp; Chequer Plate7 dd21-Feb-18Ane &amp; Chequer Plate27 dd15-Jan-18Ane &amp; Chequer Plate27 dd16-Feb-18Ane &amp; Chequer Plate27 dd14-Feb-18Ane &amp; Chequer Plate Installation27 dd22-Dec-17Ane &amp; Stallation, Breakglass and Alarm3 dd10-Feb-18Ane &amp; Supplies3 dd10-Feb-18Aon mection from u/g to water meter room2 dd24-Feb-18Aon hot big big and sampling to WSD7 dd30-Jan-18Aet drawing submision to WSD7 dd30-Jan-18Aet drawing submision to WSD7 dd30-Jan-18Aat tollet2 dd30-Jan-18Ao o shower room u channel1 dd31-Jan-18Ao o shower room u channel1 dd31-Jan-18Aat tollet2 dd30-Jan-18Aat tollet2 dd30-Jan-18Aat tollet2 dd30-Jan-18Aat tollet2 dd30-Jan</td><td>walk &amp; celling in general (final coat)4 di15-Mar-18*19-Mar-18no &amp; Chequer Plate1013-Feb-18A14-Feb-18A113Feb-18A14-Feb-18A11413-Feb-18A28-Feb-18A12121-Feb-18A28-Feb-18A12115-Jan-18A29-Mar-18230d15-Jan-18A29-Mar-18130d15-Jan-18A29-Mar-18130d16-Jan-18A29-Mar-18130d14-Feb-18A14-Feb-18A14409-Feb-18A14-Feb-18A14420-Feb-18A14-Feb-18A14422-Dec-17A10-Mar-1811422-Dec-17A10-Mar-18110d22-Dec-17A10-Mar-1811113-Feb-18A14-Feb-18A116-Feb-18A16-Feb-18A16-Feb-18A116-Feb-18A16-Feb-18A16-Feb-18A116-Feb-18A16-Feb-18A16-Feb-18A116-Feb-18A16-Feb-18A16-Feb-18A116-Feb-18A16-Feb-18A16-Feb-18A116-Feb-18A16-Feb-18A16-Feb-18A116-Feb-18A16-Feb-18A16-Feb-18A116-Feb-18A16-Feb-18A16-Feb-18A116-Feb-18A16-Feb-18A16-Feb-18A116-Feb-18A16-Feb-18A16-Feb-18A116-Feb-18A16-Feb-18A16-Feb-18A116-Feb-18A16-Feb-18A16-Feb-1</td><td>walk &amp; celing in general (final coal)4 di15-Mar 18'19-Mar 18'19-Mar 18'ne &amp; Chequer Plate1di13-Feb-18A14-Feb-18A14-Feb-18A14-Feb-18A1 di13-Feb-18A14-Feb-18A28-Feb-18A28-Feb-18A14-Feb-18A1 di15-Jen-18A28-Feb-18A28-Feb-18A28-Feb-18A28-Feb-18A1 di15-Jen-18A15-Jen-18A28-Mar-1828-Mar-1814-Feb-18A14-Feb-18A1 di15-Jan-18A29-Mar-18A28-Mar-1814-Feb-18A14-Feb-18A14-Feb-18A14-Feb-18A1 submission7di15-Jan-18A28-Feb-18A13-Feb-18A14-Feb-18A</td><td>walk à ceiling in general (final ceat)       44       15 Mar-18*       19 Mar-18*</td><td>wak Acarba ex A Chequer Jaco ex A Chequer Jaco ex A Chequer Jaco ex A Chequer</br></br></br></br></br></br></br></br></br></br></br></br></br></br></br></br></br></br></br></td><td>val 3 calign per war (hu coat)i Calign per war (hu coat)</td><td>add Actage ago ago ago ago ago ago ago ago ago ago</td></t<>	wall & celling in general (final coat)4 d15-Mar-18*ne & Chequer Plate1 dd13-Feb-18Ane & Chequer Plate1 dd13-Feb-18Ane & Chequer Plate7 dd21-Feb-18Ane & Chequer Plate7 dd21-Feb-18Ane & Chequer Plate7 dd21-Feb-18Ane & Chequer Plate27 dd15-Jan-18Ane & Chequer Plate27 dd16-Feb-18Ane & Chequer Plate27 dd14-Feb-18Ane & Chequer Plate Installation27 dd22-Dec-17Ane & Stallation, Breakglass and Alarm3 dd10-Feb-18Ane & Supplies3 dd10-Feb-18Aon mection from u/g to water meter room2 dd24-Feb-18Aon hot big big and sampling to WSD7 dd30-Jan-18Aet drawing submision to WSD7 dd30-Jan-18Aet drawing submision to WSD7 dd30-Jan-18Aat tollet2 dd30-Jan-18Ao o shower room u channel1 dd31-Jan-18Ao o shower room u channel1 dd31-Jan-18Aat tollet2 dd30-Jan-18Aat tollet2 dd30-Jan-18Aat tollet2 dd30-Jan-18Aat tollet2 dd30-Jan	walk & celling in general (final coat)4 di15-Mar-18*19-Mar-18no & Chequer Plate1013-Feb-18A14-Feb-18A113Feb-18A14-Feb-18A11413-Feb-18A28-Feb-18A12121-Feb-18A28-Feb-18A12115-Jan-18A29-Mar-18230d15-Jan-18A29-Mar-18130d15-Jan-18A29-Mar-18130d16-Jan-18A29-Mar-18130d14-Feb-18A14-Feb-18A14409-Feb-18A14-Feb-18A14420-Feb-18A14-Feb-18A14422-Dec-17A10-Mar-1811422-Dec-17A10-Mar-18110d22-Dec-17A10-Mar-1811113-Feb-18A14-Feb-18A116-Feb-18A16-Feb-18A16-Feb-18A116-Feb-18A16-Feb-18A16-Feb-18A116-Feb-18A16-Feb-18A16-Feb-18A116-Feb-18A16-Feb-18A16-Feb-18A116-Feb-18A16-Feb-18A16-Feb-18A116-Feb-18A16-Feb-18A16-Feb-18A116-Feb-18A16-Feb-18A16-Feb-18A116-Feb-18A16-Feb-18A16-Feb-18A116-Feb-18A16-Feb-18A16-Feb-18A116-Feb-18A16-Feb-18A16-Feb-18A116-Feb-18A16-Feb-18A16-Feb-18A116-Feb-18A16-Feb-18A16-Feb-1	walk & celing in general (final coal)4 di15-Mar 18'19-Mar 18'19-Mar 18'ne & Chequer Plate1di13-Feb-18A14-Feb-18A14-Feb-18A14-Feb-18A1 di13-Feb-18A14-Feb-18A28-Feb-18A28-Feb-18A14-Feb-18A1 di15-Jen-18A28-Feb-18A28-Feb-18A28-Feb-18A28-Feb-18A1 di15-Jen-18A15-Jen-18A28-Mar-1828-Mar-1814-Feb-18A14-Feb-18A1 di15-Jan-18A29-Mar-18A28-Mar-1814-Feb-18A14-Feb-18A14-Feb-18A14-Feb-18A1 submission7di15-Jan-18A28-Feb-18A13-Feb-18A14-Feb-18A	walk à ceiling in general (final ceat)       44       15 Mar-18*       19 Mar-18*	wak Acarba ex A Chequer Jaco ex A Chequer Jaco 	val 3 calign per war (hu coat)i Calign per war (hu coat)	add Actage ago

中國連幕工程(
CHINA STATE CONSTRUCTION

Data Date: 2	0-Nov-17 H	(/200	9/18 Ce			n Chai By			nterchange)				
Activity ID	Activity Name	Original Duration	Start	Finish	Total Float			2017				018	
Update 2	017-11-20 CWB - Central Interchange (201	4-06-20)R	evised DW	/P R7			Nov		Dec	Ja	n		Feb
	INARIES												
	Dates & Milestones				<u></u>								
	ncement & Completion												
1010	Contract DLP and Establishment Works for Landscape Completion	0		20-Nov-17	* -294								
1005	Contract Construction Completion	0		20-Nov-17	* -659								
SECTIO	N 7, 7A, 7B & 7C - LANDSCAPE ESTABLIS	HMENT	, 	,									
4030	EST - Portion V Landscape Establishment	365	12-Jan-17 A	11-Jan-18	-800								
SECTIO	N 8 - PRESERVATION & PROTECTION OF	TREES											
4100	Tree - Preservation & Protection of Existing Trees	1759	14-Dec-10 A	20-Nov-17	-659								
Koy Det	es for Completion of Sections												
Anticipa	ted Completion												
1094	KD12 - Anticipated Completion	0		20-Nov-17	* -747								
1114	KD10 - Anticipated Completion	0		20-Nov-17	* -659								
1124	KD11 - Anticipated Completion	0		20-Nov-17	* -652								
1139	KD16 - Anticipated Completion	0		20-Nov-17	* -659			•					
1104	KD14 - Anticipated Completion	0		11-Jan-18	* -800					٠			
Portion	Handover Dates												
	ted Handover												
2960a	Portion IIIA Handover - Remaining (KD3 + 28 days) - (EO 26.5 days added)	ГО		20-Nov-17	* -962								
•	Current Milestone Remaining W		Leight	on Co	ntrac	tors (Asia	) Limit	ed	Project ID: U086		Date		Checked Appro
	Level of Effort Project Baseli Baseline Milestone		-			86 (Nove	-		Baseline: DCP7-2c		20-Oct-17 20-Nov-17		AT PT AT DG
	Actual Work	FI	-	-		ITH ROLL		••••	Layout: Update Three Month R U086	loiling	20-1100-17	0000	אַטען יא
	Critical Remaining Work			HKEE			UNG		Page 1 of 1				

Data Date: 20-F	Feb-18	TASK		CWB(								Not HL								
ctivity ID	Activity Name		Original Duration	Start	Finish	Total Float	-		· · · · · ·				2018	3						
Update 201	8-02-20 CWB(CC) - Commis	ssioning Contract (SA)							Feb				Mar			Apr			May	
	ARIES AND GENERAL REG																			
	y Dates and Milestones																			
Contract K																				
KD007	KD7 - Completion of Section 2 of the	e Works (1437 davs) - include	0		03-Feb-18 A															
KD008	EOT (80 days) KD8 - Completion of Section 3 of the	,	0		03-Feb-18 A															
	EOT (80 days)		Ū					<b>A</b>												
· · · · · ·																				
KD01	KD1 - Achievement of Stage 1 (1177 days)		0		05-Feb-18 A		<b>A</b>													
KD02	KD2 - Achievement of Stage 2 (1232	2 days)	0		15-May-18*	-305										Δ			•	
KD03	KD3 - Achievement of Stage 3 (1318 days)	3 days) - include EOT (140	0		15-May-18*	-219					Δ								•	
Possession	n Dates and Vacation Dates																			
PO-lla	Possession of Portion IIa (Day 1) - V	VVB below +6.5mPD	1329	28-Feb-14 A	20-Mar-18	-269														
PO-III	Possession of Portion III (Day 120) -	CH1805-2600	1209	28-Jun-14 A	20-Mar-18	-284														
PO-lb	Possession of Portion lb (Day 242)	- CH1580-1805	1087	28-Oct-14 A	20-Mar-18	-264														
PO-IXd	Possession of Portion IXd (Day 266	) - CH4600-4860	1063	21-Nov-14 A	20-Mar-18	-195														
PO-XI	Possession of Portion XI (Day 296)	- EVS	1033	21-Dec-14 A	20-Mar-18	180	 			; <mark>.</mark>	<u></u>		<del></del>							
PO-IIc	Possession of Portion IIc (Day 336)	- CH1360-1580	993	30-Jan-15 A	20-Mar-18	-269														
PO-IIb	Possession of Portion IIb (Day 336)	- WVB above +6.5mPD	669	30-Jan-15 A	20-Mar-18	-269														
PO-IXa	Possession of Portion IXa (Day 392)	) - CH4860-5150	937	27-Mar-15 A	20-Mar-18	-195				:			_							
PO-Va	Possession of Portion V (Day 607) -	CH2950-3210	722	28-Oct-15 A	20-Mar-18	-284														
PO-VII_a1	Possession of Portion VII (Day 762)	- CH3911-4250 (below	659	30-Dec-15 A	20-Mar-18	-203														
PO-Vc	-6.0mPD) Possession of Portion V (Day 607) -	`	658	15-Jan-16 A	20-Mar-18	-265														
PO-VIb_b1	Possession of Portion VIb (Day 761		619	18-Feb-16 A	20-Mar-18	-279														
	Possession of Portion VIb (Day 761)	, ,	568	29-Feb-16 A	20-Mar-18	-264														
1 0-10_02		, 0.10+20-3023 (W/D)	556	20-1 60-10 A	20-mai-10	-204														
•		emaining Work	Lein	hton C	ontra	ctors	(As	ia) I i	miter	1		•	: H2613-U0	48		Date	Revis		necked A	
	el of Effort Priseline Milestone	oject Dasenne	-	amme			•					Baseline:		Month Do	lling	20-Jan-1 20-Feb-1	_	TA TA		W W
	ual Work	"	Jai		E MO		-		-	J)		U048	odate Three		ung	20100-1	- 10040		IC	
Crit	tical Remaining Work						NUL					Page 1 of	43							

Data Date: 20-F	Teb-18	TASK	filters	CWB(						ry, Not	HL.							
Activity ID	Activity Name		Original Duration	Start	Finish	Total Float	-					2018	I					
PO-Xa_1	Possession of Portion Xa (Day 650)	- ADB Southern Portion	589	07-Mar-16 A	20-Mar-18	-323			Feb		Mar			Apr			May	
PO-Xb 1	(AECOM letter ref: 2015007890T) Possession of Portion Xb (Day 804)	- ADB Northern Portion	589	07-Mar-16 A	20-Mar-18	-323				 								
PO-Vb1	Possession of Portion V (Day 607) -	SR3	587	11-Mar-16 A	20-Mar-18	180												
PO-la	Possession of Portion la (Day 789) Street Flyover	- SCB / SCP1 / SCP2 / Rumsey	600	28-Mar-16 A	20-Mar-18	-307												
PO-VII_a2	Possession of Portion VII (Day 762) -6.0mPD)	- CH3800-3911 (below	567	31-Mar-16 A	20-Mar-18	-250												
PO-IXc_1	Possession of Portion IXc (Day 712 Relinguished on 12 Apr 2016	) - EVB above 3.6mPD -	445	29-Jul-16 A	20-Mar-18	-274												
PO-IXb_1	Possession of Portion IXb (Day 712 tunnel top slab) - Relinguished on 1		445	05-Aug-16 A	20-Mar-18	-274				 								
PO-Vla_a	Possession of Portion VIa (Day 823	•	425	15-Aug-16 A	20-Mar-18	-269				-								
PO-Vb2_a	Possession of Portion V (Day 607) -	SR2	456	15-Aug-16 A	20-Mar-18	-265				-								
PO-VIc_a	Possession of Portion VIc (Day 761	) - CH3770-3800 (Access Shaft	391	23-Sep-16 A	20-Mar-18	-264												
PO-Vlb_c	Opening) Possession of Portion VIb (Day 761	) - CH3625-3770	391	23-Sep-16 A	20-Mar-18	-279												
		,		·						 								
PO-IVa1	Possession of Portion IVa (Day 930	) - CH2600-2720	323	30-Nov-16 A	20-Mar-18	-271												
PO-IVb2	Possession of Portion IVb (Day 930	) - MVB (GL D-H)	233	28-Feb-17 A	20-Mar-18	-320												
PO-VIIIa_a	Possession of Portion VIIIa (Day 92	9) - CH4530-4591 W/B	233	28-Feb-17 A	20-Mar-18	-245												
PO-VIIIa	Possession of Portion VIIIa (Day 92	9) - CH4250-4600 (Remaining)	241	12-Mar-17 A	20-Mar-18	-245												
PO-VIIIb	Possession of Portion VIIIb (Day 92	9) - SR8 (CH700-350)	233	12-Mar-17 A	20-Mar-18	-192												
PO-VIIIc	Possession of Portion VIIIc (Day 10)	39) - SR8 (CH350-310) / SCP4	233	12-Mar-17 A	20-Mar-18	-241	ll.			 <u></u>								
PO-IVa2_a	Possession of Portion IVa (Day 930	) - CH2720-2950	241	12-Mar-17 A	20-Mar-18	-267												
PO-IVb1	Possession of Portion IVb (Day 930	) - MVB (GL A-C)	239	14-Mar-17 A	20-Mar-18	-320												
PO-IVa2_b	Possession of Portion IVa (Day 930	) - SR1	203	30-Mar-17 A	20-Mar-18	-267												
PO-Vb2_b	Possession of Portion V (Day 607) -	SCP3	182	03-Jul-17 A	20-Mar-18	-265				_								
PO-Vlb_a	Possession of Portion VIb (Day 761	) - CH3400-3428	80	31-Jul-17 A	20-Mar-18	-264				 								
PO-Vla_b	Possession of Portion VIa (Day 823	) - CH3283-3400	80	31-Jul-17 A	20-Mar-18	-284												
PO-IVc	Possession of Portion IVc (Day 114	4) - MVB (above +5 0mPD)	111	20-Feb-18	10-Jun-18	-262												
		.,		20.0010		202												
🔶 Cur	rent Milestone	emaining Work	ein	hton C	ontra	ctors	: (Δe	ia) I in	nited	Projec	t ID: H2613	-U048		Date	Revi			Appro
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ctivity ID	Activity Name		Original Duration		Finish	Total Float								2018	ـــــــــــــــــــــــــــــــــــــ					
Submissio	ns and Approvals									Feb			Mar			A	vpr		M	ay
Initial Gene	eral Submission																			
10168	Submission of CMC 3DVR		30	20-Mar-18	18-Apr-18	-74							+							
	DESIGN OF WORKS																			
	Works Design and Enginee	ring																		
Green Roo	of on EVB																			
2166	EVB Roof - Engineer review & App Constructiion	roval; Consent to Proceed	24	18-Apr-16 A	06-Mar-18	-279														
Green Wal	I on ADB																			
10238	ADB Green Wall - Engineer review Constructiion	/ & Approval; Consent to Proceed	24	07-Mar-16 A	08-Mar-18	-269														
Landscapin	ng & Associated Irrigation Syste	em																		
10268	Landscaping - Engineer review & A	Approval; Consent to Proceed	24	07-Mar-16 A	08-Mar-18	-238														
PROCURE	MENT, MANUFACTURING	& DELIVERIES																		
Procureme	ent; Manufacturing; Deliverie	s																		
Green Roo	of on EVB																			
Shop Draw	vings																			
12846	EVB Green Roof - Shop Drawings	review the Engineer	30	03-Aug-17 A	27-Feb-18	-342														
2230	EVB Green Roof - Obtain Approval	for Shop Drawings	0		27-Feb-18	-342	-				•									
Procureme	ent & Fabrication																			
2232	EVB Green Roof - Confirm design	of embed items	0	07-Mar-18		-349						٠								
2234	EVB Green Roof - Embed fabricati	on & delivery	30	07-Mar-18	05-Apr-18	-349	-													
2236	EVB Green Roof - Commence emb	ped installation	0	06-Apr-18		-349	-									•				
2238	EVB Green Roof - Green Roof Fab	rication & delivery	30	06-Apr-18	05-May-18	-349	-													
2240	EVB Green Roof - Commence inst	allation	0	06-May-18		-349													•	
Landscapin	ng and Associated Irrigation Sys	stem																		
	· · · ·																<u> </u>			
•		Remaining Work Project Baseline	Leig	ghton C	ontra	ctors	5 (As	sia)	Limi	ted		-	ect ID: H2		48		Date 20-Jan-18	Revisi	on Check	ed Appro CW
	eline Milestone		rogr	amme	Updat	e 48	(Fe	brua	ary 2	018	)		line: SA0 ut: Updat		Month Rolling	-	20-Feb-18	_	AT	CW
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ctivity ID	Activity Name		Driginal	Start	Finish	Total Float								018	ł					
Shop Dra	awings						1			Feb			Mar			Apr			May	,
10272	Landscaping - Shop Drawings subn	nission to the Engineer	30	06-Oct-17 A	03-Mar-18	-319														
12848		-	30			-319														
	Landscaping - Shop Drawings revie			04-Mar-18	02-Apr-18															
10274	Landscaping - Obtain Approval for S	Shop Drawings	0		02-Apr-18	-319									•					
Procuren	nent & Fabrication																			
10276	Landscaping - Confirm design of en	nbed items	0	03-Apr-18		-319									•					
10278	Landscaping - Embed fabrication &	delivery	30	03-Apr-18	02-May-18	-319		_												
10280	Landscaping - Commence embed in	nstallation	0	03-May-18		-319		Δ										•		
10282	Landscaping - Fabrication & deliver	ry	30	03-May-18	01-Jun-18	-319		-										-		
Green W	all on ADB																			
Shop Dra	awings																			
10242	ADB Green Wall - Shop Drawings s	submission to the Engineer	30	06-Oct-17 A	08-Mar-18	-336														
12850	ADB Green Wall - Shop Drawings re	eview the Engineer	30	09-Mar-18	07-Apr-18	-336														
10244	ADB Green Wall - Obtain Approval f	_	0		07-Apr-18	-336									•					
Procuren	nent & Fabrication																			
10246	ADB Green Wall - Confirm de sign o	of embed items	0	08-Apr-18		-336									•					
10248	ADB Green Wall - Embed fabricatio		30	08-Apr-18	07-May-18	-336													-	
		-																	•	
10250	ADB Green Wall - Commence emb		0	08-May-18		-336						<b>A</b>								
10252	ADB Green Wall - Green Wall Fabri	ication & delivery	60	08-May-18	06-Jul-18	-336						_								
Architech	ural Feature on EVS																			
Procuren	nent & Fabrication																			
10086	EVS - Architechural Features delive	ry	60	02-Jun-17 A	01-Mar-18	-143														
Air Purific	cation System (APS)																			
Procuren	nent & Fabrication									++-										
<b>♦</b> C	Current Milestone	emaining Work	<b>.</b>				/ .	.:	1 1			Pro	ect ID: H2613-	1048		Date	Re	vision	Checke	d Appro
	evel of Effort Pr	roject Baseline	-	hton C			•	-					eline: SA01			20-Jan-			AT	CW
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	ritical Remaining Work			THRE	E MO	NTH	RO	LLI	NG			U04 Pag	8 e 4 of 43							

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ctivity ID	Activity Name	l Origi Durat	nal Start	Finish	Total Float						201	8					
13664	APS - Ship to HK Store (3rd Batch)	80		A 01-Mar-18	-138			Feb			Mar		<i> </i>	\pr		May	·
2368	APS - QA Stored Equipment	6	23-Aug-17	A 01-Mar-18	-138												
CONST	RUCTION		-														
	ntilation Building (WVB - related	d)															
	Section (WVB-related)	-,															
	la, IIc [CH840 to CH1360]																
13086a		S equipment installation and 24	04-Oct-16	15-Mar-18	-162												
13086	cabling (Ganty FADS01) (Ref: H261 TCSS cabling and sign face installa		16-Mar-18	07-May-18	-162											-	
Westbo																	
5000	MEP(WB) - (CH840 to CH1360) E&	M 1st Fix 29	05-Jun-17	A 01-Mar-18	-134												
5008	MEP(WB) - (CH840 to CH1360) E&																
5016	MEP(WB) - (CH840 to CH1360) E&																
5024											_						
	MEP(WB) - (CH840 to CH1360) TC installation	SS Field equip & cable 18	03-Apr-18	24-Apr-18	-152												
Eastbo																	
6100	MEP(EB) - (CH840 to CH1360) E&N	M 1st Fix 29	01-Mar-17	A 01-Mar-18	-134												
6102	MEP(EB) - (CH840 to CH1360) E&M	M 2nd Fix (include Sump A) 58	22-May-17	A 22-Mar-18	-152												
6104	MEP(EB) - (CH840 to CH1360) E&M	M Final Fix 24	23-Mar-18	24-Apr-18	-152						•						
6106	MEP(EB) - (CH840 to CH1360) TCS installation	SS Field equip & cable 18	03-Apr-18	24-Apr-18	-152										1		
West Ve	entilation Building (WVB)																
RC Stru	ctures and Metal Roof																
Metal R	loof																
10454	WVB - Touch up (Steel structure)	12	24-Jan-18	A 05-Feb-18 A	<b>\</b>												
10456	WVB - Touch up (Roof cladding)	12	23-Feb-18	08-Mar-18	-189												
Metal	Roof Eastern Side (M.J. East)																
•	Current Milestone	emaining Work		0 1						Project	ID: H2613-U	148		Date	Revision	Checke	d Appro
		oject Baseline	ighton			-	-		_		id: H2013-00 e: SA01	J-U		20-Jan-18		AT	CW
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ctivity ID	Activity Name		Original Duration	Start	Finish	Total Float						20*	18	•				
1044	2a4 WVB - Installation of extra roof fins	support (M.J.East) (VO)	42	11-Sep-17 A	12-Mar-18	-192			Feb			Mar			Apr			May
1045	2a WVB - Roof cladding / (East Bound	lary)	30	16-Sep-17 A	23-Jan-18 A													
Metal	Roof Western Side (M.J. West)																	
1044	8a WVB - Roof cladding / (West bound	darv)	60	03-Oct-17 A	23-Jan-18 A													
1366			36	23-Feb-18	10-Apr-18	-262												
			50	20-100-10	10-Api-10	-202												
MEP &	ABWF Works																	
3058	WVB - Metal works / steel platform /	/ Ladders / Handrails	48	07-Sep-17 A	22-Jan-18 A													
3088	MEP(WVB) - TCSS Enabling Works installation)	s (Remaining TCSS / E&M	30	23-Jan-18 A	24-Feb-18	-130												
E&M Ir	dividual System T&C																	
10672	o MEP(WVB) - Staircase Pressurizati	on System Test	6	23-Jan-18 A	27-Jan-18 A													
Stairca	se Pressurization System (G/F)														++-			
G/F																		
1913	79 SPS (WVB) - Installation of louvre f	or VS01b	3	18-Jan-18 A	22-Jan-18 A													
Externa	al Works																	
3104	WVB - External Fence Wall (VO/13	1)	48	28-Aug-17 A	03-Mar-18	-105		-	_	-	•							
3102	WVB - External concrete pavement lighting)	t (include EVA) (include EVA	66	16-Oct-17 A	26-Jan-18 A													
3106	WVB - Final completion works (incl	ude CCMS interface)	48	11-Apr-18	07-Jun-18	-181								-				
10884	WVB - External lamp pole, bollard a	& recess wall lighting installation	48	11-Apr-18	07-Jun-18	-181								-				
E&M Te	esting &Commissioning / Statutory	Inspection																
3122	MEP(WVB) - Ready for Statutory In	spection	0	28-Jan-18 A			\$											
12642	MEP(WVB) - Submission of WWO4	16 (Part IV) to WSD	0	29-Jan-18 A			•								++-			
12620	MEP(WVB) - Submission of Form 5	01 to FSD	0	05-Feb-18 A			Δ	•										
KD01N	MEP (WVB) - Milestone for KD01		0		05-Feb-18 A		Δ	٠										
12652	MEP(WVB) - Submission of Form 3	14 to FSD	0	08-Feb-18 A			Δ	•										
			-	ihton C amme THRE	Updat	e 48		ary 2			Baseli Layou U048	t ID: H2613-U ne: SA01 t: Update Thre 6 of 43			Date 20-Jan-18 20-Feb-18	3 U047	ion Che AT AT	cw CW CW

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ctivity ID	Activity Name		Original Duration	Start	Finish	Total Float			•				18						
									Feb			Mar			Apr			May	
3120d	MEP(WVB) - LUX measurement for	tunnel lighting	23	20-Feb-18	14-Mar-18	-100						-							
3124	MEP(WVB) - Statutory Inspection & FSD inspection)	Certificates (include EMSD &	24	23-Feb-18	22-Mar-18	-166													
12644	MEP(WVB) - Submission of WWO4	6 (Part V) to Client	0	23-Mar-18		-138	۵					•							
3120a4	MEP(WVB) - TVS N-mode Test (Stag	ge 1)	54	13-May-18	05-Jul-18	-243					-						•		
Final Com	pletion Works																		
3132	WVB - APS Site Acceptance Test (Ai	r monitoring station)	33	23-Mar-18	24-Apr-18	-208									-	-			
3130	WVB - Final Completion works for A	PS (Charcoal installation)	30	13-Apr-18	12-May-18	-243		-						I					
KD04M2	APS SAT (WVB) - Milestone for KD0	14	0		24-Apr-18	-140									Δ	•			
Landscapi	ng and Irrigation Systems																		
3136	WVB - Final completion test for irrigation	ation systems in Portion IIb	60	11-Apr-18	09-Jun-18	-327								-					
Tunnel Fle	xible Pavement (WVB-related)																		
5802	Road(WB) - (CH1480 to CH2600) R	oad Marking & Traffic Sign	14	24-Mar-18	13-Apr-18	-201						1							
5806	Road(EB) - (CH1480 to CH2600) Ro	oad Marking & Traffic Sign	14	14-Apr-18	30-Apr-18	-201								c					
Satellite C	ontrol Building (SCB)																		
ABWF Wo	rks																		
3922	SCB - ABWF (Wet Trade)		24	18-Jan-17 A	02-Mar-18	-250					•								
3928	SCB - Metal works / steel platform / L	adders / Handrails	36	16-Oct-17 A	02-Mar-18	-148					•								
External F	acade																		
3930	SCB - External facing tiles / Louvre		48	12-Oct-17 A	02-Mar-18	-184					•								
MEP Work	s																		
3942	MEP(SCB) - E&M Individual System	T&C	12	23-Feb-18	08-Mar-18	-178													
3944	MEP(SCB) - E&M Final Completion Inspections	Works; Ready for Statutory	30	03-Mar-18	11-Apr-18	-178													
External V	· ·																		
3946	SCB - External concrete pavement		18	03-Mar-18	23-Mar-18	-184													
Lev Lev Bas Act		-,	_	hton C amme THRE		te 48	(Feb	ruary	2018	)	Baseline	Update Thre		olling	Date 20-Jan-1 20-Feb-1		sion C A A	Т	Appro CW CW

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Activity	D	Activity Name		Original Duration	Start	Finish	Total Float		2018				
	3948	SCB - Final completion works (inclue	de CCMS interface)	18	24-Mar-18	18-Apr-18	-184	Feb	Mar	Apr		Ma	ay
	E&M Testii	ng &Commissioning											
	3950	MEP(SCB) - E&M System Integrated	Testing and Commissioning	30	09-Mar-18	07-Apr-18	-222						
	KD01M4	MEP (SCB) - Milestone for KD06		0		18-Apr-18	-134			٠			
	Final Com	pletion Works											
	3958	SCB - TCSS & other E&M systems S	Site Acceptance Test	45	19-Apr-18	02-Jun-18	-233			-			
5	Satellite Co	ontrol Points 1 / 2											
	SCP1												
	3722	SCP1 - External Works		30	18-Nov-17 A	08-Mar-18	-121						
	3711	SCP1 - Metal works / Glazing / Louv	er / Handrails	24	23-Feb-18	22-Mar-18	-145						
	10106	MEP(SCP1) - TCSS Enabling Works	s (Remaining TCSS installation)	18	23-Feb-18	15-Mar-18	-169						
	3714	MEP(SCP1) - E&M 2nd Fix		18	16-Mar-18	10-Apr-18	-169						
	3716	MEP(SCP1) - E&M Final Fix		18	03-Apr-18	24-Apr-18	-169						
	3718	MEP(SCP1) - E&M Individual System	m T&C (Include TCSST&C)	12	25-Apr-18	09-May-18	-169						
	3720	MEP(SCP1) - E&M Final Completio	n Works	12	10-May-18	24-May-18	-169						
	SCP2												
	3740	MEP(SCP2) - E&M Final Fix		18	02-Dec-17 A	01-Mar-18	-146						
	3742	MEP(SCP2) - E&M Individual System	m T&C	12	02-Mar-18	15-Mar-18	-77						
	10108	MEP(SCP2) - TCSS Enabling Works	s (Remaining TCSS installation)	12	02-Mar-18	15-Mar-18	-146						
	3744	MEP(SCP2) - E&M Final Completio	n Works	12	16-Mar-18	29-Mar-18	-89	<b>_</b>					
	KD01M3	MEP (SCP2) - Milestone for KD06		0		29-Mar-18	-89	Δ	•				
N	liddle Ven	tilation Building (MVB - relate	ed)										
	Funnel Sec	ction (MVB-related)											
	Portion IV	a (CH2600 to CH2950)											
	•		emaining Work	l ein	hton (	Contra	ctors	(Asia) Limited	Project ID: H2613-U048	Date	Revisi		ed Appro
		el of Effort Pro-	-,	_				(February 2018)	Baseline: SA01 Layout: Update Three Month Rolling	20-Jan-18 20-Feb-18		AT AT	CW CW
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	Crit	tical Remaining Work							Page 8 of 43				

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ctivity	r ID	Activity Name		Original Duration	Start	Finish	Total Float								2	018				
	Slip Road 1							i		1	Feb			: :	Mar		Apr	:	N	lay
	10020	MEP(SR1) - (CH171 to CH271) E&M	A 2nd Fix (include Sump B)	30	15-Dec-17 A	01-Mar-18	-203													
		, , , , , ,	,																	
	10022	MEP(SR1) - (CH171 to CH271) E&N	A Final Fix	4	02-Mar-18	06-Mar-18	-203													
	10046a	MEP(SR1) - (CH171 to CH271) VE (1200m2)	Panel installation (Lower part)	13	15-Mar-18	29-Mar-18	-210		-											
	10024	MEP(SR1) - (CH171 to CH271) TCS installation	SS Field equip & cable	6	17-Mar-18	23-Mar-18	-99	-												
	10046	MEP(SR1) - (CH171 to CH271) VE (1200m2)	Panel installation (Upper part)	13	20-Mar-18	07-Apr-18	-214		_						-					
	Westbound	I (CH2600 to CH2720)																		
	9950a1	MEP(WB) - (CH2600 to CH2720) VI (1400m2)	E Panel installation (Lower part)	9	02-Aug-17 A	24-Feb-18	-206													
	5102a	MEP(WB) - (CH2600 to CH2720) E8	&M 2nd Fix	12	23-Nov-17 A	01-Mar-18	-221													
	9950a3	MEP(WB) - (CH2600 to CH2720) VI (1750m2)	E Panel installation (Upper part)	11	05-Mar-18	16-Mar-18	-223							_						
	5104a	MEP(WB) - (CH2600 to CH2720) E8	&M Final Fix	6	10-Mar-18	16-Mar-18	-93							•	-					
	5106a	MEP(WB) - (CH2600 to CH2720) To installation	CSS Field equip & cable	6	10-Mar-18	16-Mar-18	-223													
	Eastbound	(CH2600 to CH2720)																		
	5120a	MEP(EB) - (CH2600 to CH2720) E&	M 2nd Fix	7	04-Dec-17 A	24-Feb-18	-218													
	9952a1	MEP(EB) - (CH2600 to CH2720) VE (1400m2)	Panel installation (Lower part)	9	26-Feb-18	07-Mar-18	-204						-	-						
	5122a	MEP(EB) - (CH2600 to CH2720) E&	M Final Fix	6	03-Mar-18	09-Mar-18	-217													
	5124a	MEP(EB) - (CH2600 to CH2720) TC installation	SS Field equip & cable	6	03-Mar-18	09-Mar-18	-223													
	9952a3	MEP(EB) - (CH2600 to CH2720) VE (1750m2)	Panel installation (Upper part)	11	17-Mar-18	29-Mar-18	-223	_												
	Westbound	I (CH2720 to CH2950)																		
	5102b	MEP(WB) - (CH2720 to CH2950) E8	&M 2nd Fix	12	29-Dec-17 A	28-Feb-18	-211				-	in the second se								
	9950b	MEP(WB) - (CH2720 to CH2950) VI	E Panel installation (Lower part)	13	23-Feb-18	09-Mar-18	-206					1								
	9950b1	(2247m2) MEP(WB) - (CH2720 to CH2950) VI		13	05-Mar-18	19-Mar-18	-214							_						
	5104b	(2247m2) MEP(WB) - (CH2720 to CH2950) E8		12	06-Mar-18	19-Mar-18	-95													
	5106b	MEP(WB) - (CH2720 to CH2950) T(	CSS Field equip & cable	12	06-Mar-18	19-Mar-18	-217													
		installation	· · ·																	
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		ical Remaining Work			THRE	E MO	NTH	RO		ING				U048 Page	a of 43					
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ctivity ID	Activity Name		Original Duration	Start	Finish	Total Float					2018				
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Eastbound	I (CH2720 to CH2950)														
9952b	MEP(EB) - (CH2720 to CH2950) E8	M 2nd Fix	12	03-Jan-18 A	01-Mar-18	-198									
5120b	MEP(EB) - (CH2720 to CH2950) VE (2247m2)	Panel installation (Lower part)	13	08-Mar-18	22-Mar-18	-204									
5122b	MEP(EB) - (CH2720 to CH2950) E8	M Final Fix	12	19-Mar-18	04-Apr-18	-212									
5124b	MEP(EB) - (CH2720 to CH2950) TC installation	SS Field equip & cable	11	20-Mar-18	04-Apr-18	-217									
9952b1	MEP(EB) - (CH2720 to CH2950) VE (2247m2)	Panel installation (Upper part)	13	03-Apr-18	18-Apr-18	-223									
Portion Va	[CH2950 to CH3210]														
Westbound	d (Outer Lane)														
5134a	MEP(WB) - (CH2950 to CH3210) E	SM 2nd Fix	33	23-Feb-17 A	01-Mar-18	-206									
5136a	MEP(WB) - (CH2950 to CH3210) E	SM FINALFIX	10	16-Aug-17 A	06-Mar-18	-210									
9954a	MEP(WB) - (CH2950 to CH3210) VI (1800m2)	E Panel installation (Upper part)	20	23-Feb-18	17-Mar-18	-220									
Eastbound	I (Outer Lane)														
9956b	MEP(EB) - (CH2950 to CH3210) VE (1800m2)	Panel installation (Lower part)	20	06-Dec-16 A	22-Mar-18	-204									
5152a	MEP(EB) - (CH2950 to CH3210) E8	M 2nd Fix	33	04-Mar-17 A	08-Mar-18	-222									
5156a	MEP(EB) - (CH2950 to CH3210) E8	M Final Fix	10	09-Mar-18	20-Mar-18	-222									
9956a	MEP(EB) - (CH2950 to CH3210) VE (1800m2)	Panel installation (Upper part)	20	21-Mar-18	17-Apr-18	-222									
Portion Vb	o1 (SR3)														
Slip Road 3	3														
10032b	MEP(SR3) - (CH3089 to CH3334) E	&M 1st Fix	13	15-Mar-17 A	02-Mar-18	-222			-		•				
10036b	MEP(SR3) - (CH3089 to CH3334) T installation	CSS Field equip & cable	8	15-Mar-17 A	02-Mar-18	-223									
10048c	MEP(SR3) - (CH3089 to CH3334) V part) (2940m2)	E Panel installation (Lower	33	02-Mar-18	13-Apr-18	-219									
10034b	MEP(SR3) - (CH3089 to CH3334) E	&M 2nd Fix (include Sump C)	27	03-Mar-18	07-Apr-18	-222									
10048b	MEP(SR3) - (CH3089 to CH3334) V part) (2940m2)	E Panel installation (Upper	33	06-Mar-18	17-Apr-18	-222									
10048c2	MEP(SR3) - Road lighting installation	on (Portal)	18	16-Mar-18	10-Apr-18	-216									
• · ·							<u>l: :</u>	1 !			<u> </u>	Date	Revisior		ed Appro
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ctivity ID	Activity Name		Original Duration	Start	Finish	Total Float				-	201	8	-		<b>.</b>		
10038b	MEP(SR3) - (CH3089 to CH3334) E	&M Final Fix	8	09-Apr-18	17-Apr-18	-222		Feb			/lar		Ap	r -		May	
Portion Vb	2 (SR2 / SCP3)																
Slip Road 2	2																
10050b	MEP(SR2) - (CH3114 to CH3257) E	&M 1st Fix	8	08-Mar-17 A	27-Feb-18	-184											
10056b	MEP(SR2) - (CH3114 to CH3257) T installation	CSS Field equip & cable	5	16-Mar-17 A	27-Feb-18	-217											
10052b	MEP(SR2) - (CH3114 to CH3257) E	&M 2nd Fix (include Sump F)	40	15-Jun-17 A	23-Mar-18	-205				<u> </u>							
10064b2	MEP(SR2) - Road lighting installation	on (Portal)	18	23-Feb-18	15-Mar-18	-216											
10054b	MEP(SR2) -(CH3114 to CH3257) E	&M Final Fix	5	24-Mar-18	29-Mar-18	-145					I						
10064b	MEP(SR2) - (CH3114 to CH3257) V	E Panel installation (Upper	18	12-Apr-18	03-May-18	-152							-				
10064c	part) (1716m2) MEP(SR2) - (CH3114 to CH3257) V	E Panel installation (Lower	18	12-Apr-18	03-May-18	-152							-				
Portion Vo	part) (1716m2) [CH3210 to CH3250]									+							
Westbound	I (Outer Lane)																
5134c	MEP(WB) - (CH3210 to CH3250) E	&M 2nd Fix	18	23-Feb-17 A	05-Mar-18	-199			_	-							
5136c	MEP(WB) - (CH3210 to CH3250) E	&M Final Fix	10	06-Mar-18	16-Mar-18	-199											
9954c	MEP(WB) - (CH3210 to CH3250) VI		20	19-Mar-18	14-Apr-18	-220											
	(1800m2) (Outer Lane)	- · (								+							
5152c	MEP(EB) - (CH3210 to CH3250) E8	M 2nd Fix	18	02-Mar-17 A	05-Mar-18	-199											
5152c	MEP(EB) - (CH3210 to CH3250) E8		10	06-Mar-18	16-Mar-18	-199											
											-						
9956c	MEP(EB) - (CH3210 to CH3250) VE (1800m2)	Panel Installation (Upper part)	20	10-Apr-18	03-May-18	-152					-						
	a [CH3250 to CH3283]						·····			ļ			ļļ.				
Westbound																	
5166a	MEP(WB) - (CH3250 to CH3283) E		6	27-Nov-17 A	27-Feb-18	-217											
9958a1	MEP(WB) - (CH3250 to CH3283) VI (528m2)	,	6	23-Feb-18	01-Mar-18	-219											
5170a	MEP(WB) - (CH3250 to CH3283) To installation	CSS Field equip & cable	5	28-Feb-18	05-Mar-18	-217											
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ctivity	ID	Activity Name		Original Duration	Start	Finish	Total Float									201	8						
	9958a	MEP(WB) - (CH3250 to CH3283) VI (528m2)	E Panel installation (Upper part)	6	05-Mar-18	10-Mar-18	-194					Feb			M	ar			Apr			N	ay
	5168a	MEP(WB) - (CH3250 to CH3283) E8	&M Final Fix	5	06-Mar-18	10-Mar-18	-194								-					+			
	Eastbound	1																					
Ir	5182a	MEP(EB) - (CH3250 to CH3283) E&	M 1st Fix	6	11-Nov-17 A	28-Feb-18	-196	;	:			:											
	5184a	MEP(EB) - (CH3250 to CH3283) E&	M 2nd Fix	6	01-Mar-18	07-Mar-18	-196																
	5186a	MEP(EB) - (CH3250 to CH3283) E&	M Final Fix	5	06-Apr-18	11-Apr-18	-217											-					
	5188a	MEP(EB) - (CH3250 to CH3283) TC	SS Field equip & cable	5	06-Apr-18	11-Apr-18	-217																
	9960a	installation MEP(EB) - (CH3250 to CH3283) VE (528m2)	Panel installation (Upper part)	6	06-Apr-18	12-Apr-18	-218	-										-					
	9960a1	MEP(EB) - (CH3250 to CH3283) VE (528m2)	Panel installation (Lower part)	6	06-Apr-18	12-Apr-18	-226											-					
Ľ	Portion VI	a [CH3283 to CH3400]																					
	Westboun	d																					
II.	5166b	MEP(WB) - (CH3283 to CH3400) E8	&M 2nd Fix	17	07-Dec-17 A	01-Mar-18	-230							•									
	9958b1	MEP(WB) - (CH3283 to CH3400) VI (1872m2)	E Panel installation (Lower part)	21	23-Feb-18	19-Mar-18	-213						-			-							
	5170b	MEP(WB) - (CH3283 to CH3400) To installation	CSS Field equip & cable	12	02-Mar-18	15-Mar-18	-230																
	5168b	MEP(WB) - (CH3283 to CH3400) E8	&M Final Fix	12	16-Mar-18	29-Mar-18	-104					-											
	9958b	MEP(WB) - (CH3283 to CH3400) VI (1872m2)	E Panel installation (Upper part)	21	16-Mar-18	13-Apr-18	-219							<b>_</b>									
	Eastbound	· · ·																					
Ir	5182b	MEP(EB) - (CH3283 to CH3400) E&	M 1st Fix	8	13-Dec-17 A	26-Feb-18	-232		_		_												
	5184b	MEP(EB) - (CH3283 to CH3400) E&	M 2nd Fix	17	27-Feb-18	17-Mar-18	-232						I			-							
	9960b1	MEP(EB) - (CH3283 to CH3400) VE (1872m2)	Panel installation (Lower part)	21	01-Mar-18	24-Mar-18	-123																
	5188b	MEP(EB) - (CH3283 to CH3400) TC installation	SS Field equip & cable	12	16-Mar-18	29-Mar-18	-230					-											
	5186b	MEP(EB) - (CH3283 to CH3400) E&	M Final Fix	12	19-Mar-18	04-Apr-18	-232					•					;	•					
	9960b	MEP(EB) - (CH3283 to CH3400) VE (1872m2)	Panel installation (Upper part)	21	06-Apr-18	30-Apr-18	-150																
Ľ	Portion VI	b [CH3400 to CH3428]																					
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ctivity ID	Activity Name		Original Duration	Start	Finish	Total Float		·				018					
Westbound			Duration					Feb	;		Mar			Apr		N	lay
westbound																	
5202b1	MEP(WB) - (CH3400 to CH3428) TO installation	CSS Field equip & cable	6	23-Feb-18	01-Mar-18	-202											
5200b1	MEP(WB) - (CH3400 to CH3428) E8	&M Final Fix	12	02-Mar-18	15-Mar-18	-202											
9962b1	MEP(WB) - (CH3400 to CH3428) VI (336m2)	E Panel installation (Upper part)	4	13-Apr-18	17-Apr-18	-222											
9962b1a	MEP(WB) - (CH3400 to CH3428) VI (336m2)	E Panel installation (Lower part)	4	13-Apr-18	17-Apr-18	-226								-			
Eastbound																	
5216b1	MEP(EB) - (CH3400 to CH3428) E&	M 2nd Fix	6	04-Dec-17 A	12-Mar-18	-101											
5218b1	MEP(EB) - (CH3400 to CH3428) E&	M Final Fix	12	16-Mar-18	29-Mar-18	-104											
5220b1	MEP(EB) - (CH3400 to CH3428) TC installation	SS Field equip & cable	6	23-Mar-18	29-Mar-18	-104											
9964b1	MEP(EB) - (CH3400 to CH3428) VE (4800m2)	Panel installation (Upper part)	4	18-Apr-18	21-Apr-18	-226								-			
9964b1a	MEP(EB) - (CH3400 to CH3428) VE (4800m2)	Panel installation (Lower part)	4	18-Apr-18	21-Apr-18	-226								-			
Portion VI	o [CH3428 to CH3625]																
Westbound	I																
5198b2	MEP(WB) - (CH3428 to CH3625) E8	&M 2nd Fix	12	15-Mar-17 A	08-Mar-18	-165											
5202b2	MEP(WB) - (CH3428 to CH3625) TO installation	CSS Field equip & cable	12	18-Mar-17 A	08-Mar-18	-160											
5200b2	MEP(WB) - (CH3428 to CH3625) E8	&M Final Fix	12	09-Mar-18	22-Mar-18	-160				-		•					
9962b2	MEP(WB) - (CH3428 to CH3625) VI (2364m2)	E Panel installation (Upper part)	27	23-Mar-18	27-Apr-18	-160				1							
Eastbound																	
12240b2	VIb(EB) - Anchorage installatiion for VE Panel frame support (include pro		27	29-Jul-16 A	08-Mar-18	-228			-	-							
5216b2	MEP(EB) - (CH3428 to CH3625) E&	M 2nd Fix	12	09-Mar-18	22-Mar-18	-160				-		1					
5220b2	MEP(EB) - (CH3428 to CH3625) TC installation	SS Field equip & cable	12	09-Mar-18	22-Mar-18	-148				-		•					
5218b2	MEP(EB) - (CH3428 to CH3625) E&	M Final Fix	12	23-Mar-18	10-Apr-18	-160											
9964b2	MEP(EB) - (CH3428 to CH3625) VE (4800m2)	Panel installation (Upper part)	27	11-Apr-18	12-May-18	-160					•						
Portion VI	o [CH3625 to CH3770]																
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ctivit	y ID	Activity Name		Original Duration	Start	Finish	Total Float			2018				
	Westbound	1						Feb	; ;	Mar	Apr		May	
	5198b3	MEP(WB) - (CH3625 to CH3770) E	&M 2nd Fix	12	09-Mar-18	22-Mar-18	-165							
	5202b3	MEP(WB) - (CH3625 to CH3770) To installation		12	23-Mar-18	10-Apr-18	-165							
	5200b3	MEP(WB) - (CH3625 to CH3770) E	&M Final Fix	12	11-Apr-18	24-Apr-18	-122							
	9962b3	MEP(WB) - (CH3625 to CH3770) V (1740m2)	E Panel installation (Upper part)	20	11-Apr-18	04-May-18	-165						-	
	Eastbound	, I												
	12240b3	Vlb(EB) - Anchorage installatiion for VE Panel frame support (include pro		20	28-Feb-17 A	08-Mar-18	-228							
	5214b3	MEP(EB) - (CH3625 to CH3770) E8	M 1st Fix	12	04-Nov-17 A	12-Mar-18	-228							
	5216b3	MEP(EB) - (CH3625 to CH3770) E8	M 2nd Fix	12	06-Mar-18	19-Mar-18	-228							
	9964b3a	MEP(EB) - (CH3625 to CH3770) VE (1740m2)	Panel installation (Lower part)	20	09-Mar-18	04-Apr-18	-226							
	5218b3	MEP(EB) - (CH3625 to CH3770) E8	M Final Fix	12	13-Mar-18	26-Mar-18	-228							
	5220b3	MEP(EB) - (CH3625 to CH3770) TC installation	SS Field equip & cable	10	15-Mar-18	26-Mar-18	-228							
	9964b3	MEP(EB) - (CH3625 to CH3770) VE (1740m2)	Panel installation (Upper part)	21	27-Mar-18	24-Apr-18	-228		-					
	Middle Ven	tilation Building (MVB)												
Г	Establishm	nent Works												
	3220	MVB - Construct road and road drai	nage works in Area D & E	28	09-Nov-17 A	03-Mar-18	-262							
ľ	RC Structu	res and Metal Roof												
	Metal Roof													
	3256	MVB - Install Metal Deck		48	13-Nov-17 A	31-Jan-18 A								
	12274	MVB - Steel structure paintworks / w system	ater test / cleaning / fall arrest	30	01-Feb-18 A	22-Mar-18	-228					ļ		
ľ	External Fa	acade												
	3238	MVB - External facing tiles / Louvre		90	06-Nov-17 A	27-Mar-18	-208							
Ľ	MEP Work	S												
	3280	MEP(MVB) - Lift Installation		70	10-Nov-17 A	21-Feb-18	-286	······································						
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3236	MVB - Metal works / steel platform /	Ladders / Handralls	48	06-Dec-17 A	08-Mar-18	-192								
3248	MEP(MVB) - TCSS Enabling Works	s (Remaining TCSS installation)	24	03-Jan-18 A	24-Feb-18	-258								
3252	MEP(MVB) - E&M Final Completion Inspections	Works; Ready for Statutory	24	23-Mar-18	24-Apr-18	-228				•				
E&M Ir	dividual System T&C													
3250a	MEP(MVB) - MVAC system		18	26-Feb-18	17-Mar-18	-256								
32500	MEP(MVB) - Lift functional test		6	26-Feb-18	03-Mar-18	-234			-					
32500	MEP(MVB) - CCMS SAT		30	26-Feb-18	04-Apr-18	-258			-					
32501	MEP(MVB) - SAT - LV Switchboard, Switchboard	MCC, LCC and Generator	6	26-Feb-18	03-Mar-18	-240			-					
3250f	MEP(MVB) - SAT - Generator Syste	m	6	05-Mar-18	10-Mar-18	-240								
3250g	MEP(MVB) - SAT - UPS		6	05-Mar-18	10-Mar-18	-240								
32501	MEP(MVB) - SAT - LV Capacitor Ba	nk	6	05-Mar-18	10-Mar-18	-240								
3250r	MEP(MVB) - Damper control panel functional test	and tunnel motorized damper	20	07-Mar-18	29-Mar-18	-256								
3250b	MEP(MVB) - TVS System Test		12	12-Mar-18	24-Mar-18	-256								
Basen	ent 3 - APS Auxiliary Room / APS Plant	Area 1 / APS Plant Area 2 (GL D	- H)											
12284	APS(MVB) - Installation of electrical	l services	24	23-Nov-17 A	01-Mar-18	-184								
12286	APS(MVB) - ESP water down plant i	installation	24	07-Dec-17 A	24-Feb-18	-192								
3302a	APS(MVB) - Delivery of HV power s	supply for MVB	0		23-Feb-18*	-83		Δ	•					
3302t	APS(MVB) - Installation of HV powe and controller for MVB)	er supply (include transformer	18	23-Feb-18	15-Mar-18	-83								
12288	APS(MVB) - HV charger for ESP		12	26-Feb-18	10-Mar-18	-192			-					
3302	APS(MVB) - E&M final fixing		24	12-Mar-18	12-Apr-18	-192								
33020	APS(MVB) - Testing of HV powersu	pply for MVB	6	23-Mar-18	29-Mar-18	-89				-				
Basen	ent 3 - Other Rooms / General Area & C	Corridor				,								
3401	MEP(MVB) - ABWF Works		12	23-Nov-17 A	08-Mar-18	-228								
3403	MEP(MVB) - E&M 1st fixing		18	19-Dec-17 A	08-Mar-18	-228								
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ctivity	D	Activity Name		Original Duration	Start	Finish	Total Float					2	018					
	3405	MEP(MVB) - E&M 2nd fixing		18	09-Mar-18	29-Mar-18	-228		Feb			Mar	-		Apr		Ma	y
	3407	MEP(MVB) - E&M final fixing		18	03-Apr-18	24-Apr-18	-228											
	Basement	3M - Sump Pit for ESP / Sump Pit for	DENO2 (GL D - H)															
	3296	APS(MVB) - Plant 4 ESP/DeNO2		24	13-Jan-18 A	08-Mar-18	-159											
	Basement	3M - TVF Room																
	3307	APS(MVB) - Installation of TVF & Sil	encer	24	29-Dec-17 A	01-Mar-18	-224				-							
	3309	APS(MVB) -E&M Final Fix		18	02-Mar-18	22-Mar-18	-224						1					
	Baasemen	t 3M - Other Rooms / General Area &	& Corridor				, 											
	3311	MEP(MVB) - ABWF Works		18	02-Nov-17 A	08-Mar-18	-228											
	3313	MEP(MVB) - E&M 1st fixing		24	23-Nov-17 A	22-Mar-18	-228						I					
	3315	MEP(MVB) - E&M 2nd fixing		24	20-Dec-17 A	22-Mar-18	-228											
		MEP(MVB) - E&M final fixing																
	3317			24	23-Mar-18	24-Apr-18	-228											
		2 (GL D - H)																
		t 2 - Other Rooms / General Area	& Corridor															
	19028	MEP(MVB) - ABWF Works		12	15-Nov-17 A	01-Mar-18	-218											
	19030	MEP(MVB) - E&M 1st fixing		18	28-Nov-17 A	15-Mar-18	-216											
	19032	MEP(MVB) - E&M 2nd fixing		18	19-Dec-17 A	15-Mar-18	-216											
	19034	MEP(MVB) - E&M final fixing		18	16-Mar-18	10-Apr-18	-216					-						
11	Basement	2M (GL D - H)																
	Basement	t 2M - Other Rooms / General Are	a & Corridor															
	19045	MEP(MVB) - ABWF Works		12	18-Nov-17 A	03-Mar-18	-218											
	19047	MEP(MVB) - E&M 1st fixing		18	02-Dec-17 A	17-Mar-18	-218											
	19049	MEP(MVB) - E&M 2nd fixing		18	19-Dec-17 A	17-Mar-18	-218											
	19051	MEP(MVB) - E&M final fixing		18	19-Mar-18	12-Apr-18	-218					-						
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	Basement	1 (GL D - H)								Feb			Mar			Apr			Ma	у
	Other Ro	oms / General Area & Corridor																		
				10	19-Aug-17 A	09 Mar 19	-216													
	11312	MEP(MVB) - ABWF Works		18																
	11314	MEP(MVB) - E&M 1st fixing		24	13-Oct-17 A	08-Mar-18	-216													
	11316	MEP(MVB) - E&M 2nd fixing		24	06-Dec-17 A	08-Mar-18	-216													
	11318	MEP(MVB) - E&M final fixing		24	09-Mar-18	10-Apr-18	-216					-								
	Basement	:1 (GLA-D)																		
	MCC Roo	om 1 (B1-04)																		
	11286	MEP(MVB) - E&M final fixing		24	25-Nov-17 A	01-Mar-18	-206					•								
	UPS Roo	m 1 (B1-11)																		
	11294	MEP(MVB) - E&M final fixing		24	09-Dec-17 A	01-Mar-18	-206													
		. , -				of mail to	200													
		oms / General Area & Corridor																		
	11298	MEP(MVB) - E&M 1st fixing		24	29-Sep-17 A	01-Mar-18	-210													
	11300	MEP(MVB) - E&M 2nd fixing		24	07-Dec-17 A	08-Mar-18	-216													
	11302	MEP(MVB) - E&M final fixing		24	09-Mar-18	10-Apr-18	-216					-								
	G/F (GL D	- H)																		
	TVF Fan	Room 1 (G-01)																		
	11394	MEP(MVB) - Installation of TVF & Sil	lencer	18	12-Dec-17 A	01-Mar-18	-218					1								
	11396	MEP(MVB) - E&M final fixing		12	02-Mar-18	15-Mar-18	-218					_	_							
	TVE Eap	Room 2 (G-02)																		
				24	20 Nov 17 A	01 Mar 19	220													
	11402	MEP(MVB) - Installation of TVF & Sil	lencer	24	28-Nov-17 A	01-Mar-18	-230													
	11404	MEP(MVB) - E&M final fixing		24	02-Mar-18	29-Mar-18	-230													
	Other Ro	oms / General Area & Corridor																		
	11408	MEP(MVB) - E&M 1st fixing		24	20-Oct-17 A	01-Mar-18	-230					1								
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		ual Work tical Remaining Work			THRE	EE MO	NTH	ROL	LING			U048 Page 1	17 of 43							
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	11410	MEP(MVB) - E&M 2nd fixing		24	05-Dec-17 A	15-Mar-18	-230	-		Feb		!	Mar			Apr		M	ay
	11412	MEP(MVB) - E&M final fixing		24	02-Mar-18	29-Mar-18	-230												
	G/F (GLA-	D)																	
	HKE / HV	Switch Room 1 (G-07)																	
	11334	MEP(MVB) - HKE HV Switch Rooms	installation	39	02-Jan-18 A	24-Feb-18	-258												
	11336	MEP(MVB) - Meter Installation / Powe		0		24-Feb-18	-258				•								
				Ū		2410010	200												
		' Switch Room 2 (G-10)																	
	11346	MEP(MVB) - HKE HV Switch Rooms	installation	39	02-Jan-18 A	24-Feb-18	-258												
	Fire Cont	rol Centre (G-11)																	
	11378	MEP(MVB) - Installation of FS Contro	l Panel	24	02-Dec-17 A	01-Mar-18	-218												
	11380	MEP(MVB) - E&M final fixing		12	02-Mar-18	15-Mar-18	-218												
	Other Ro	oms / General Area & Corridor																	
	11382	MEP(MVB) - ABWF Works		12	04-Nov-17 A	01-Mar-18	-210												
	11384	MEP(MVB) - E&M 1st fixing		24	12-Dec-17 A	08-Mar-18	-216												
	11386	MEP(MVB) - E&M 2nd fixing		24	21-Dec-17 A	22-Mar-18	-216												
	11388	MEP(MVB) - E&M final fixing		24	09-Mar-18	10-Apr-18	-216					-							
	1/F (GL D -	Н)																	
	Other Ro	oms / General Area & Corridor																	
	11440	MEP(MVB) - ABWF Works		12	08-Nov-17 A	01-Mar-18	-218				_								
	11442	MEP(MVB) - E&M 1st fixing		18	05-Dec-17 A	08-Mar-18	-224												
	11444	MEP(MVB) - E&M 2nd fixing		18	20-Dec-17 A	15-Mar-18	-224												
	11446	MEP(MVB) - E&M final fixing		18	02-Mar-18	22-Mar-18	-224												
	1/F (GL A -				02 mai 10	22 110 10													
		Tank & Pump Room (L1-05)																	
	- FS Water	Tank & Pump Room (L1-05)																	
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	12368	MEP(MVB) - E&M 2nd fixing		12	11-Nov-17 A	01-Mar-18	-230			Feb	-		Mar			Apr			May
	11418	MEP(MVB) - Installation of FS Pump	,	12	02-Mar-18	15-Mar-18	-230					-							
	11420	MEP(MVB) - E&M final fixing		12	16-Mar-18	29-Mar-18	-230												
	Emergency Generator Room (L1-03)																		
	11428	11428 MEP(MVB) - Cable laying & termination to Genset & Switchboard		24	08-Dec-17 A	01-Mar-18	-238				_	1							
	Other Roo	oms / General Area & Corridor																	
	11432	MEP(MVB) - ABWF Works		24	17-Oct-17 A	01-Mar-18	-228				-	1							
	11434	MEP(MVB) - E&M 1st fixing		18	14-Dec-17 A	08-Mar-18	-216				_								
	11436	MEP(MVB) - E&M 2nd fixing		18	29-Dec-17 A	19-Mar-18	-219	<u></u>					 						
	11438	MEP(MVB) - E&M final fixing		18	20-Mar-18	13-Apr-18	-219						-			I			
	2/F (GL D -	H)					]												
	TV Plenu	m (L2-02)																	
	11464	MEP(MVB) - E&M final fixing		10	16-Jan-18 A	01-Mar-18	-206				-	I							
	TV Plenu	m (L2-04)																	
	11484	MEP(MVB) - E&M final fixing		10	18-Jan-18 A	12-Mar-18	-215					-	-						
	TV Plenu	m (L2-05)																	
	11494 MEP(MVB) - E&M final fixing			10	18-Jan-18 A	12-Mar-18	-215					-	-						
	Other Roo	oms / General Area & Corridor																	
	11498	MEP(MVB) - ABWF Works		18	16-Dec-17 A	08-Mar-18	-228					-							
	11500	MEP(MVB) - E&M 1st fixing		18	19-Dec-17 A	08-Mar-18	-228				-								
	11502	MEP(MVB) - E&M 2nd fixing		18	09-Mar-18	29-Mar-18	-228					•							
	11504	MEP(MVB) - E&M final fixing		18	03-Apr-18	24-Apr-18	-228				Ę								
	Staircase P	Pressurization System (B3/F - G/F	-																
	B3/F - G/F																		
	Current Milestone								a)   im	itad	· 1	Proie	ct ID: H2613-L	J048		Date Revision			ked Appro
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ctivity ID	Activity Name		Original Duration	Start	Finish	Total Float							2	018							
191423	SPS(MVB) - Airduct installation		40	12-Feb-18 A	09-Apr-18	-244			Feb				Mar	!		Apr			May		
191467	SPS(MVB) - Wiring		30	12-Mar-18	19-Apr-18	-244															
191469	SPS(MVB) - LMCP installation		6	13-Apr-18	19-Apr-18	-244															
191471			6	16-Apr-18	21-Apr-18	-244										_					
			6																		
191473		S(MVB) - Termination		23-Apr-18	28-Apr-18	-244															
191475	SPS(MVB) - Testing & Commissioning		12	30-Apr-18	14-May-18	-244															
Smoke Ext	traction System (B3/F - G/F)																				
B3/F - G/F																					
191463	SES(EVB) - New wall opening for ne B1-16 / B1-08 / B2-08	ew make up air duct for B1-35 /	3	22-Jan-18 A	03-Feb-18 A																
191453	SES(EVB) - New Makeup air Duct w	ith FRP for B1-35	3	05-Feb-18 A	07-Feb-18 A																
191457	SES(EVB) - New Makeup Air duct fo	r B1-15 and B1-16	2	08-Feb-18 A	10-Feb-18 A																
191459			2	12-Feb-18 A	13-Feb-18 A																
191477			40	12-Feb-18 A	09-Apr-18	-244															
191461	SES(EVB) - Relocate MAG with Air of at B2-08	duct from High level to low level	3	13-Feb-18 A	15-Feb-18 A																
191479	SES(MVB) - Wiring		30	12-Mar-18	19-Apr-18	-244															
191481	SES(MVB) - LMCP installation		6	13-Apr-18	19-Apr-18	-244															
191483	SES(MVB) - SES control panel		6	16-Apr-18	21-Apr-18	-244										-					
191485	SES(MVB) - Termin ation		6	23-Apr-18	28-Apr-18	-244															
191487	SES(MVB) - Testing & Commissionin	ng	12	30-Apr-18	14-May-18	-244															
External W	lorks																				
3254	MVB - Road and drainage works (E	VA)	30	23-Feb-18	29-Mar-18	-222				-											
3258	MVB - External concrete pavement		42	23-Feb-18	17-Apr-18	-222						_									
3260	MVB - External Fence Wall		42	23-Feb-18	17-Apr-18	-222							-			_					
3262	3262 MVB - Final completion works (include CCMS interface)		30	09-Mar-18	17-Apr-18	-222															
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	ual Work ical Remaining Work		-		E MO		-		-		1	U048 Page 20	-		-						

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ctivity ID	Activity Name		Original Duration	Start	Finish	Total Float	<u> </u>		2018				
E&M Testing &Commissioning / Statutory Inspection							Feb		Mar	A	\pr	M	ay
		-				170							
12606	MEP(MVB) - Submission of Form 5 t		0	04-Mar-18		-178							
12606a	MEP(MVB) - Use Permit - Lift		0	18-Mar-18		-178	Δ		•				
3264a2	MEP(MVB) - TVS E-mode Test (Stag	P(MVB) - TVS E-mode Test (Stage 2)			29-Apr-18	-290							
3264	MEP(MVB) - E&M System Integrated Testing and Commissioning		24	05-Apr-18	28-Apr-18	-289							
3264a	A MEP(MVB) - TVS & CCMS System Integrated Testing and Commissioning			05-Apr-18	28-Apr-18	-289							
3264b	MEP(MVB) - Tunnel Lighting & CCM and Commissioning	IS System Integrated Testing	24	05-Apr-18	28-Apr-18	-289							
3264c	MEP(MVB) - Fire Services & CCMS Commissioning	System Integrated Testing and	24	05-Apr-18	28-Apr-18	-289		_					
3266	MEP(MVB) - Ready for Statutory Inspection			30-Apr-18		-232					▲		
12650	MEP(MVB) - Submission of Form 31	4 to FSD	0	30-Apr-18		-236					▲		
12622a	MEP(MVB) - Submission of Form 50	1 to FSD (Tunnel)	0	30-Apr-18		-290					•		
12622	MEP(MVB) - Submission of Form 50	01 to FSD (Except SES / SPS)	0	30-Apr-18		-290					▲		
3264a4	MEP(MVB) - TVS N-mode Test (Stag	ge 2)	54	13-May-18	05-Jul-18	-243						-	
12622b	MEP(MVB) - Submission of Form 501 to FSD (include SES / SPS)		0	15-May-18		-305							<b>♦</b>
KD02M1	KD02M1 MEP(MVB) - Milestone for KD02		0		15-May-18	-305					Δ		<b>♦</b>
Final Com	pletion Works		J I.		]								
3270	MVB - Final Completion works for Al	PS (Charcoal installation)	30	13-Apr-18	12-May-18	-243			_	-			
3288	MVB - Completion of Section 1 (KD	06)	0		15-May-18	-160					۵		•
Landscapi	ng and Irrigation System		J I.		]								
3276	MVB - Final completion test for irriga	ation systems in Portion IVa and	60	05-Apr-18	03-Jun-18	-321		-					
Tunnel Flex	xible Pavement (MVB-related)												
5808	Road(WB) - (CH2600 to CH3770) F	lexible Pavement	12	03-Apr-18	17-Apr-18	-222				-	-		
5812	Road(EB) - (CH2600 to CH3770) FI	exible Pavement	12	11-Apr-18	24-Apr-18	-228							
Portion IVa	Road Surface Area		, J										
Lev		ojeot Basenne	-	amme	Updat	e 48	(Asia) Limited (February 2018) ROLLING		Project ID: H2613-U048 Baseline: SA01 Layout: Update Three Month Rollin U048 Page 21 of 43	-	Date Rev 20-Jan-18 U047 20-Feb-18 U048	AT	ed Appro CW CW

Data Date: 20-I	Feb-18	TASK	filters	CWB( s: 3 Month									ot HL.								
ctivity ID	Activity Name		Original Duration	Start	Finish	Total Float						-		2018	3		-				
19046	TCSS equipment installation & cabl	ing	96	02-Nov-17 A	01-Mar-18	-200				Feb		_	Ma	r			Apr			Ma	<u>y</u>
19052	Lighting equipment Testing & Comm	nissioning	24	15-Dec-17 A	01-Mar-18	-66	1 	kk = :				•		+				+			
19048	TCSS equipment Testing & Commis	sioning	72	02-Mar-18	31-May-18	-200													<u> </u>		
Satellite C	ontrol Point 3																				
SCP3																					
3766	MEP(SCP3) - E&M Final Fix		12	12-Dec-17 A	01-Mar-18	-139															
10110	MEP(SCP3) - TCSS Enabling Work	s (Remaining TCSS installation)	12	23-Feb-18	08-Mar-18	-140															
3774	SCP3 - Metal works / Glazing / Louv	er / Handrails	12	02-Mar-18	15-Mar-18	-139															
3768	MEP(SCP3) - E&M Individual System	m T&C	12	16-Mar-18	29-Mar-18	-139							•								
3770	MEP(SCP3) - E&M Final Completio	n Works; Ready for Statutory	12	03-Apr-18	17-Apr-18	-139		_													
KD02M2	MEP(SCP3) - Milestone for KD06		0		17-Apr-18	-139			۵								٠				
East Venti	lation Building (EVB - related)	)																			,
Tunnel Se	ction (EVB-related)																				
Portion VI	c [CH3770 to CH3800]																				
Westboun	d																				
5202c	MEP(WB) - (CH3770 to CH3800) E	&M 2nd Fix	12	01-Dec-17 A	15-Mar-18	-120															
5198c	MEP(WB) - (CH3770 to CH3800) To installation	CSS Field equip & cable	5	09-Mar-18	14-Mar-18	-228															
9962c	MEP(WB) - (CH3770 to CH3800) V part) (450m2)	E Panel installation (Upper	5	09-Mar-18	14-Mar-18	-197															
5200c	MEP(WB) - (CH3770 to CH3800) E	&M Final Fix	12	16-Mar-18	29-Mar-18	-120							-								
Eastbound	ł																				
5220c	MEP(EB) - (CH3770 to CH3800) E8	M 2nd Fix	12	21-Dec-17 A	12-Mar-18	-212															
5216c	MEP(EB) - (CH3770 to CH3800) TC installation	SS Field equip & cable	5	09-Mar-18	14-Mar-18	-202															
9964c1	MEP(EB) - (CH3770 to CH3800) VE (450m2)	, , , ,	5	09-Mar-18	14-Mar-18	-210															
5218c	MEP(EB) - (CH3770 to CH3800) E8	M Final Fix	12	13-Mar-18	26-Mar-18	-212															
🔶 Cu	rrent Milestone	emaining Work		hton C	ontra	ctors	()	sia	\ L im	itad		Proj	ect ID: H2	2613-U0	48		Date	_			ed Appro
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	tical Remaining Work			IHRE	E MO	NIH	KC	JLL	ING				o e 22 of 43	3							
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ctivity ID	Activity Name		Original Duration	Start	Finish	Total Float						2	2018				
9964c	MEP(EB) - (CH3770 to CH3800) VE (450m2)	E Panel installation (Upper part)	5	27-Mar-18	04-Apr-18	-212			Feb			Mar			Apr		May
Portion V	II [CH3825 to CH4250] - Original S	ection in DWP Rev.2a															
5238	Possession of Portion VII		0	23-Feb-18		168				•						 	
Portion V	II [CH3800 to CH3911]																
Westbour	nd																
9966a4a	MEP(WB) - (CH3800 to CH3911) VI (1332m2)	E Panel installation (Lower part)	15	04-Jul-17 A	02-Mar-18	-151					•						
5230a4	MEP(WB) - (CH3800 to CH3911) E	&M 2nd Fix	48	14-Aug-17 A	01-Mar-18	-154											
5232a6	MEP(WB) - (CH3800 to CH3911) N	iche installation	3	11-Sep-17 A	24-Feb-18	-204										 	
5232a4	MEP(WB) - (CH3800 to CH3911) E	&M Final Fix	16	26-Feb-18	15-Mar-18	-108				-		-					
5234a4	MEP(WB) - (CH3800 to CH3911) To installation	CSS Field equip & cable	12	02-Mar-18	15-Mar-18	-154						-					
9966a4	MEP(WB) - (CH3800 to CH3911) VI (1332m2)	E Panel installation (Upper part)	15	16-Mar-18	06-Apr-18	-154											
Eastbour	d																
5248a4	MEP(EB) - (CH3800 to CH3911) E8	M 2nd Fix (iniclude Sump II)	12	15-Mar-17 A	01-Mar-18	-196											
5252a4	MEP(EB) - (CH3800 to CH3911) TC installation	CSS Field equip & cable	12	17-Mar-17 A	07-Mar-18	-201											
5250a4	MEP(EB) - (CH3800 to CH3911) E8	M Final Fix	16	02-Mar-18	20-Mar-18	-157											
9968a4a	MEP(EB) - (CH3800 to CH3911) VE (1332m2)	E Panel installation (Lower part)	14	15-Mar-18	03-Apr-18	-152											
9968a4	MEP(EB) - (CH3800 to CH3911) VE (1332m2)	E Panel installation (Upper part)	14	21-Mar-18	10-Apr-18	-157											
Portion V	II [CH3911 to CH4250]																
Access S	haft Opening																
10120a1	VII(WB) - Shaft tunnel slab curing		6	20-Jan-18 A	26-Jan-18 A	۱											
10120a5	VII(WB) - Cannot apply waterproofin	ng due to water leaking	27	27-Jan-18 A	06-Mar-18	-165											
10120a2	VII(WB) - Waterproofing on Shaft tu	nnelslab	18	07-Mar-18	27-Mar-18	-165											
10120a3	VII(WB) - Backfilling (78 layers; 1 da	ay/layer)	78	28-Mar-18	05-Jul-18	-165											
Westbour	nd																
		-,	_	ihton C amme THRE		te 48	(Febr	ruary		)	Baselin	Update Th	U048 ree Month	Rolling	Date 20-Jan-18 20-Feb-18	 ion Ch AT AT	ecked Appro CW CW

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ctivity	ID	Activity Name	I	Original Duration	Start	Finish	Total Float	t						2	2018						
	5234a2	MEP(WB) - (CH3911 to CH4250) TO	CSS Field equip & cable	15	15-Mar-17 A	09-Mar-18	-152				Feb			Mar			Apr			May	
	5230a2	installation MEP(WB) - (CH3911 to CH4250) E8	&M 2nd Fix	48	14-Dec-17 A	01-Mar-18	-161						1								
	5232a2	MEP(WB) - (CH3911 to CH4250) E8	&M Final Fix	16	02-Mar-18	20-Mar-18	-161														
	9966a2a	MEP(WB) - (CH3911 to CH4250) VE (4068m2)	E Panel installation (Lower part)	23	03-Mar-18	29-Mar-18	-151														
	9966a2	MEP(WB) - (CH3911 to CH4250) VE (4068m2)	E Panel installation (Upper part)	21	17-Mar-18	14-Apr-18	-161							-			-				
	Eastbound																				
	12244a	VII(EB) - Anchorage installation for s Panel frame support (include protect		23	02-Sep-16 A	08-Mar-18	-151														
	9968a2a	MEP(EB) - (CH3911 to CH4250) VE (4086m2)	Panel installation (Lower part)	23	17-May-17 A	15-Mar-18	-152														
	5250a2	MEP(EB) - (CH3911 to CH4250) E&	M Final Fix	16	23-Feb-18	13-Mar-18	-150														
	5252a2	MEP(EB) - (CH3911 to CH4250) TC installation	SS Field equip & cable	15	23-Feb-18	12-Mar-18	-149														
	9968a2	MEP(EB) - (CH3911 to CH4250) VE (4086m2)	Panel installation (Upper part)	12	02-Mar-18	15-Mar-18	-152														
	Slip Road 8	3																			
	13082a	VII(SR8) - Anchorage installatiion fo VE Panel frame support (include pro		24	09-Jan-17 A	15-Mar-18	-151														
	13084a1	MEP(SR8) - (CH1000 to CH750) VE (550m2)	E Panel installation (Lower part)	6	27-Jun-17 A	22-Mar-18	-151								•						
	13068a	MEP(SR8) - (CH1000 to CH750) E8	&M 1st Fix	12	23-Dec-17 A	15-Mar-18	-151														
	13070a	MEP(SR8) - (CH1000 to CH750) E8	&M 2nd Fix (include Sump D)	12	09-Mar-18	22-Mar-18	-151						-								
	13072a	MEP(SR8) - (CH1000 to CH750) E8	&M Final Fix	12	16-Mar-18	29-Mar-18	-151														
	13074a	MEP(SR8) - (CH1000 to CH750) TC installation	CSS Field equip & cable	12	16-Mar-18	29-Mar-18	-151														
	13084a	MEP(SR8) - (CH1000 to CH750) VE (550m2)	E Panel installation (Upper part)	6	23-Mar-18	29-Mar-18	-151														
	Portion VI	lla [CH4250 to CH4600]																			
	Westbound	ł																			
	9970a	MEP(WB) - (CH4250 to CH4600) VI (3900m2)	E Panel installation (Lower part)	20	20-Sep-17 A	01-Mar-18	-140						1								
	5282	MEP(WB) - (CH4250 to CH4600) E	&M Final Fix	12	06-Jan-18 A	01-Mar-18	-147						1								
	5284	MEP(WB) - (CH4250 to CH4600) To installation	CSS Field equip & cable	11	23-Feb-18	07-Mar-18	-152														
	Levi		ojeot basenne	-	ghton C ramme THRE		te 48	(F	ebru	Jary		)	Basel Layou U048	ot ID: H2613- ine: SA01 it: Update Th 24 of 43		Rolling		Revi 18 U047 18 U048	sion Che AT AT	cked App CW CW	1

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ctivity	/ ID	Activity Name		Original Duration	Start	Finish	Total Float			2018					
	9970	MEP(WB) - (CH4250 to CH4600) V (3900m2)	E Panel installation (Upper part)	20	08-Mar-18	03-Apr-18	-152	Feb		Mar		Apr		Ma	iy
	Eastbound	, ,													
ľ	5276	VIIIa(EB) - Thermal Barrier installati	on (include protection removal)	39	02-Jun-17 A	01-Mar-18	-160								
	9972	MEP(EB) - (CH4250 to CH4600) VE (3900m2)	Panel installation (Upper part)	11	02-Mar-18	14-Mar-18	-138								
	9972a	MEP(EB) - (CH4250 to CH4600) VE (3900m2)	Panel installation (Lower part)	11	02-Mar-18	14-Mar-18	-138								
	Slip Road 8	8													
	13050	MEP(SR8) - (CH750 to CH500) E&	M 1st Fix	20	12-Dec-17 A	27-Feb-18	-157								
	13052	MEP(SR8) - (CH750 to CH500) E&	M 2nd Fix (include Sump D)	24	18-Dec-17 A	15-Mar-18	-159								
	13066a	MEP(SR8) - (CH750 to CH500) VE (1000m2)	Panel installation (Lower part)	11	23-Feb-18	07-Mar-18	-138								
	13056	MEP(SR8) - (CH750 to CH500) TCS installation	SS Field equip & cable	18	28-Feb-18	20-Mar-18	-157								
	13054	MEP(SR8) - (CH750 to CH500) E&	M Final Fix	12	09-Mar-18	22-Mar-18	-159								
	13066	MEP(SR8) - (CH750 to CH500) VE (1250m2)	Panel installation (Upper part)	14	23-Mar-18	12-Apr-18	-159								
	Portion IX	d [CH4600 to CH4860]													
	Westbound	d													
	5298	MEP(WB) - (CH4600 to CH4860) To installation	CSS Field equip & cable	8	21-Dec-17 A	01-Mar-18	-153								
	5296	MEP(WB) - (CH4600 to CH4860) E	&M Final Fix	9	02-Mar-18	12-Mar-18	-153								
	9974	MEP(WB) - (CH4600 to CH4860) V (3300m2)	E Panel installation (Upper part)	17	13-Mar-18	04-Apr-18	-153				-				
	9974a	MEP(WB) - (CH4600 to CH4860) V (3300m2)	E Panel installation (Lower part)	17	13-Mar-18	04-Apr-18	-153				-				
	Eastbound	Í .													
li	12252	IXd(EB) - Anchorage installatiion for VE Panel frame support (include pro		37	24-Aug-15 A	02-Mar-18	-149								
	5312	MEP(EB) - (CH4600 to CH4860) E8	M 2nd Fix	29	05-Dec-17 A	09-Mar-18	-149			•					
	5316	MEP(EB) - (CH4600 to CH4860) TC installation	CSS Field equip & cable	8	18-Dec-17 A	12-Mar-18	-142			-					
	9976	MEP(EB) - (CH4600 to CH4860) VE (3300m2)	Panel installation (Upper part)	37	23-Feb-18	11-Apr-18	-158								
	9976a	MEP(EB) - (CH4600 to CH4860) VE (3300m2)	Panel installation (Lower part)	37	23-Feb-18	11-Apr-18	-158								
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		tical Remaining Work				•			Pag	e 25 of 43					
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ctivity	ID	Activity Name		Original Duration	Start	Finish	Total Float	- <b>J</b>			2018					
	5314	MEP(EB) - (CH4600 to CH4860) E&	M Final Fix	9	10-Mar-18	20-Mar-18	-149		Feb		Mar		Apr		M	ay
	Portion IXa	a [CH4860 to CH5150]														
	Westbound	l i i i i i i i i i i i i i i i i i i i														
	5326	MEP(WB) - (CH4860 to CH5150) E8	&M 2nd Fix (include Sump E)	32	22-May-17 A	08-Mar-18	-112									
	9978a	MEP(WB) - (CH4860 to CH5150) VI	E Panel installation (Lower part)	37	07-Jun-17 A	15-Mar-18	-139									
	5330	(3288m2) MEP(WB) - (CH4860 to CH5150) TC	CSS Field equip & cable	9	29-Dec-17 A	20-Mar-18	-112									
	9978	installation MEP(WB) - (CH4860 to CH5150) VI	E Panel installation (Upper part)	37	23-Feb-18	11-Apr-18	-158									
	5328	(3288m2) MEP(WB) - (CH4860 to CH5150) E8	&M Final Fix	10	09-Mar-18	20-Mar-18	-112									
	Eastbound															
	5344	MEP(EB) - (CH4860 to CH5150) E&	M 2nd Fix (include Sump E)	32	12-Dec-17 A	01-Mar-18	-145									
	9980	MEP(EB) - (CH4860 to CH5150) VE	Panel installation (Upper part)	37	23-Feb-18	11-Apr-18	-158									
	9980a	(3288m2) MEP(EB) - (CH4860 to CH5150) VE	Panel installation (Lower part)	37	23-Feb-18	11-Apr-18	-158									
	5346	(3288m2) MEP(EB) - (CH4860 to CH5150) E&	M Final Fix	10	09-Mar-18	20-Mar-18	-112									
	5348	MEP(EB) - (CH4860 to CH5150) TC installation	SS Field equip & cable	9	10-Mar-18	20-Mar-18	-112									
	Portion VII	Ib [SR8 CH500 to CH350]														
	Slip Road 8	l i														
	5356a	MEP(SR8) - (CH500 to CH350) E&M	/ 1st Fix	12	03-Jan-18 A	01-Mar-18	-155									
	5358a	MEP(SR8) - (CH500 to CH350) E&M	/ 2nd Fix (include Sump D)	24	03-Jan-18 A	08-Mar-18	-161									
	5362a	MEP(SR8) - (CH500 to CH350) TCS installation	S Field equip & cable	11	15-Jan-18 A	01-Mar-18	-150									
	12828a1	MEP(SR8) - (CH500 to CH350) VE (600m2)	Panel installation (Lower part)	8	23-Feb-18	03-Mar-18	-129									
	5360a	MEP(SR8) - (CH500 to CH350) E&N	/ Final Fix	12	01-Mar-18	14-Mar-18	-161									
	12828a	MEP(SR8) - (CH500 to CH350) VE ( (750m2)	Panel installation (Upper part)	9	05-Mar-18	14-Mar-18	-138									
	Portion VII	Ic [SR8 CH350 to CH210]														
	Slip Road 8	•														
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ctivit	y ID	Activity Name		Original Duration	Start	Finish	Total Float					-		2018						
	5374	MEP(SR8) - (CH350 to CH210) E&M	M 1st Fix	8	05-Jan-18 A	27-Feb-18	-144	-		Feb			Mar	1		Apr		i	May	
	5376	MEP(SR8) - (CH350 to CH210) E&M	M 2nd Fix (include Sump E)	16	12-Jan-18 A	06-Mar-18	-150													
	5378	MEP(SR8) - (CH350 to CH210) E&M	· · · ·	5	08-Mar-18	13-Mar-18	-150													
	5380					13-Mar-18	-150													
		MEP(SR8) - (CH350 to CH210) TCS installation	55 Field equip & cable	4	09-Mar-18	13-Wai-16	-150													
	East Ventil	ation Building (EVB)																		
	RC Structu	ires and Green Roof																		
	3456	EVB - Green Roof (include architect protection system installation)	ural lighting & lightning	42	07-May-18	26-Jun-18	-304										•			
	External F	acade																		
	3438	EVB - External facing tiles / Treated	Waste Wood / Louvre	90	11-Sep-17 A	01-Mar-18	-161					-								
	MEP Wor	ks					1													
I	3448	MEP(EVB) - TCSS Enabling Works	(Remaining TCSS installation)	30	22-Nov-17 A	01-Mar-18	-161					-								
	3436	EVB - Metal works / steel platform / L	adders / Handrails	48	29-Dec-17 A	01-Mar-18	-161													
	3452	MEP(EVB) - E&M Final Completion Inspections	Works; Ready for Statutory	21	02-Mar-18	26-Mar-18	-161		_											
	E&M Indivi	dual System T&C																		
	3450h	MEP(EVB) - SAT - LV Capacitor Ban	ık	12	06-Jan-18 A	01-Mar-18	-188					-								
	3450f	MEP(EVB) - SAT - Generator System	n	6	08-Jan-18 A	26-Feb-18	-185													
	3450d	MEP(EVB) - CCMS SAT		30	19-Jan-18 A	22-Mar-18	-206							•						
	3450c	MEP(EVB) - Lift functional test		6	23-Feb-18	01-Mar-18	-188					-								
	3450b	MEP(EVB) - TVS System Test		12	23-Feb-18	08-Mar-18	-219				-									
	3450m	MEP(EVB) - Damper control panel a functional test	and tunnel motorized damper	18	23-Feb-18	15-Mar-18	-219													
	3660d	MEP(ADB) - LUX measurement for t	tunnel lighting	28	27-Mar-18	23-Apr-18	-140						-	_						
	3450p	MEP(EVB) - Smoke Extraction Syste	em System Test	12	06-Apr-18	19-Apr-18	-178													
	34500	MEP(EVB) - Staircase Pressurizatio	n System Test	12	30-Apr-18	14-May-18	-198			_		-					-			
	Basement	2 - APS Auxiliary Room / APS Plant A	Area 1 / APS Plant Area 2 / APS	Plant Are	ea 3															
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ctivity	' ID	Activity Name		Original Duration	Start	Finish	Total Float			2018				
	12304	APS(EVB) - HV charger for ESP		12	23-Feb-18	08-Mar-18	-185	Feb		Mar		Apr	Ma	У
	3560a	APS(EVB) - Delivery of HV power su	upply	0		23-Feb-18*	-185	Δ	•					
	3560b	APS(EVB) - Installation of HV power and controller for EVB)	supply (include transformer	18	23-Feb-18	15-Mar-18	-185							
	3560	APS(EVB) - E&M final fixing		24	09-Mar-18	10-Apr-18	-185							
	3560c	APS(EVB) - Testing of HV power su	oplyfor EVB	6	16-Mar-18	22-Mar-18	-89							
	Basement	2 - Sump Pit for ESP / Sump Pit for I	DENO2											
	3550	APS(EVB) - Plant 1 ESP/DeNO2 (Ed termination)	quipment installation /	18	20-Jan-18 A	09-Feb-18 A								
	3552a	APS(EVB) - Plant 2 ESP/DeNO2 (E	quipment in place)	12	20-Jan-18 A	02-Feb-18 A								
	3554a	APS(EVB) - Plant 3 ESP/DeNO2 (E	quipment in place)	12	03-Feb-18 A	13-Feb-18 A			-					
	3552	APS(EVB) - Plant 2 ESP/DeNO2 (Editermination)	quipment installation /	18	05-Feb-18 A	19-Feb-18 A				<b></b>				
	3554	APS(EVB) - Plant 3 ESP/DeNO2 (Editermination)	quipment installation /	18	05-Feb-18 A	19-Feb-18 A					-			
	Basement	2 - Other Rooms / General Area & C	orridor											
	11602	MEP(EVB) - E&M 2nd fixing		24	06-Oct-17 A	01-Mar-18	-146							
	11604	MEP(EVB) - E&M final fixing		24	13-Dec-17 A	08-Mar-18	-146							
	Basement	1 Mezzanine (GLA - D)												
	Basemen	t 1 Mezzanine (GL D - L)												
	Plenum	(B1M-03)												
	12988	MEP(EVB) - E&M 1st fixing		12	05-Oct-17 A	24-Feb-18	-156		-					
	Basement	1 (GLA - D)												
	Other Ro	oms / General Area & Corridor												
	11606	MEP(EVB) - ABWF Works		24	13-Sep-17 A	26-Feb-18	-124		-					
	11608	MEP(EVB) - E&M 1st fixing		24	04-Oct-17 A	08-Mar-18	-133							
	11610	MEP(EVB) - E&M 2nd fixing		24	18-Oct-17 A	15-Mar-18	-139							
	11612	MEP(EVB) - E&M final fixing		24	16-Mar-18	17-Apr-18	-139							
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ctivity	y ID	Activity Name	Origina Duration	Start	Finish	Total Float		2018		
	Basement	1 (GL D - L)					Feb	Mar	Apr May	
	Water Ta	nk & Pump Room (B1-16)								
	11636	MEP(EVB) - E&M final fixing	24	04-Nov-17 A	06-Mar-18	-164				
	TVF Roon	n 3 (B1-19)								
	11628	MEP(EVB) - E&M final fixing	24	25-Nov-17 A	06-Mar-18	-164		-		
	Other Ro	oms / General Area & Corridor								
	11656	MEP(EVB) - E&M 1st fixing	24	28-Sep-17 A	06-Mar-18	-131		-		
	11658	MEP(EVB) - E&M 2nd fixing	24	16-Oct-17 A	06-Mar-18	-131		<b>-</b>		
	11660	MEP(EVB) - E&M final fixing	24	07-Mar-18	07-Apr-18	-131				
	Basement	1 (GL L - O)								
	Tunnel F	.S.Water Tank & Pump Room (B1-	-02)							
	11644	MEP(EVB) - E&M final fixing	24	05-Dec-17 A	06-Mar-18	-164				
	F.S.Wate	r Tank & Pump Room (B1-03)								
	11652	MEP(EVB) - E&M final fixing	24	28-Nov-17 A	26-Feb-18	-137				
	Compute	r Equipment Room (B1-09)								
	12754	MEP(EVB) - E&M 1st fixing	12	27-Sep-17 A	03-Mar-18	-162				
	Other Ro	oms / General Area & Corridor								
	11674	MEP(EVB) - E&M 1st fixing	24	20-Sep-17 A	24-Feb-18	-136				
	11676	MEP(EVB) - E&M 2nd fixing	24	12-Dec-17 A	08-Mar-18	-146				
	11678	MEP(EVB) - E&M final fixing	24	18-Dec-17 A	15-Mar-18	-152				
	G/F (GL A -	D)								
	Other Ro	oms / General Area & Corridor								
	11736	MEP(EVB) - E&M 2nd fixing	24	03-Oct-17 A	01-Mar-18	-127				
	11738	MEP(EVB) - E&M final fixing	24	02-Mar-18	29-Mar-18	-127				
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ctivity	/ ID	Activity Name		Original Duration	Start	Finish	Total Float									2018						
	1/F (GL A -	D)									Feb	: 1			Mar		-	Apr			Ma	y
		oms / General Area & Corridor																				
	11772	MEP(EVB) - ABWF Works		30	11-Sep-17 A	01-Mar-18	-136															
	11774	MEP(EVB) - E&M 1st fixing		30	27-Sep-17 A	08-Mar-18	-136	:														
	11776	MEP(EVB) - E&M 2nd fixing		30	24-Nov-17 A	22-Mar-18	-136									-						
	11778	MEP(EVB) - E&M final fixing		30	12-Dec-17 A	13-Apr-18	-136															
	Staircase I	Pressurization System (B2/F - G/F	=)																			
	B2/F - G/F																					
	191381	SPS (EVB) - Installation of external I	ouvre for VS01b	24	06-Jan-18 A	15-Mar-18	-167	:		-												
	191339	SPS(EVB) - Conduit and wiring work	s for SPS control	18	13-Jan-18 A	10-Mar-18	-198															
	191343	SPS(EVB) - MSFD installation		6	15-Jan-18 A	23-Feb-18	-147															
	191347	SPS(EVB) - SPS control panel insta		6	05-Mar-18	10-Mar-18	-160															
	191345	SPS(EVB) - Airduct work and FRP er		20	12-Mar-18	07-Apr-18	-198	_														
	191383	SPS (EVB) - Installation of louvre for SPS(EVB) - Final connection of air c		3	16-Mar-18 09-Apr-18	19-Mar-18 28-Apr-18	-167 -198															
		shaft		10	09-Api-10	20-Api-10	-190															
		traction System (B2/F - G/F)																				
	B2/F - G/F											_										
	191401	SES(EVB) - Order and install new Si controller		6	02-Jan-18 A	24-Feb-18	-148															
	191407	SES(EVB) - Order and install two ne 1600x1600		48	02-Jan-18 A	03-Mar-18	-154															
	191389	SES(EVB) - New 2500x1450mm ma SES(EVB) - New wall opening for ne		36	22-Jan-18 A 22-Jan-18 A	10-Mar-18	-160															
	191419	B1-16 / B1-08 / B2-08 SES(EVB) - Order and Install new IA	•	6	22-Jan-18 A	03-Feb-18 A	-178															
	191421	G-01C 1200*1800 for makeup air ve SES(EVB) - Relocate access hatch a	ent shift	18	05-Feb-18 A	03-Mar-18	-160															
	191409	access hatch in order to maintain 5n SES(EVB) - New Makeup air Duct w	n Seperation	3	05-Feb-18 A																	
	•	rrent Milestone		eid	hton C	ontra	ctors	(Δ	lsia <sup>®</sup>	)   in	nitec	4		Projec	t ID: H261	3-U048			Date	Revision	-	ed Appro
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		tical Remaining Work			THRE	E MO	NTH	RC	JLL	ING				U048 Page	30 of 43							

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ctivity	/ ID	Activity Name		Original Duration	Start	Finish	Total Float							2018					
	191413	SES(EVB) - New Makeup Air duct fo	r B1-15 and B1-16	2	08-Feb-18 A	10-Feb-18 A				Feb			Mar			Apr		May	
	191415	SES(EVB) - Relocate MAG from hig	h level to low level for B1-08	2	12-Feb-18 A	13-Feb-18 A													
	191417	SES(EVB) - Relocate MAG with Air of at B2-08	duct from High level to low level	3	13-Feb-18 A	15-Feb-18 A													
	191411	SES(EVB) - New order and Install 2	nos. 900x900 MAG for B1-35	2	23-Feb-18	24-Feb-18	-154												
	191403	SES(EVB) - Wire Fencing with Warr Lourve	ning Sign on UR/F Horizontal	6	05-Mar-18	10-Mar-18	-160					-	-						
	External V																		
Γ	3454	EVB - Road and drainage works (EV	/A)	24	09-Nov-17 A	01-Mar-18	-144					•							
ŀ	3462	EVB - Final completion works (inclue	de CCMS interface)	30	17-Jan-18 A	26-Mar-18	-161				_								
F	3454a	EVB - Planter walls		54	18-Jan-18 A	06-Mar-18	-144												
F	3458	EVB - External concrete pavement		24	23-Feb-18	22-Mar-18	-158				_			-					
	E&M Testi	ng &Commissioning / Statutory I	nspection																
Γ	12608	MEP(EVB) - Submission of Form 5 to	o EMSD	0	02-Mar-18		-176					•							
	3464	MEP(EVB) - E&M System Integrated	Testing and Commission in g	24	07-Mar-18	30-Mar-18	-206		-			•							
	3464a	MEP(EVB) - TVS & CCMS System Ir Commissioning	ntegrated Testing and	24	07-Mar-18	30-Mar-18	-206		-										
	3464b	MEP(EVB) - Tunnel Lighting & CCM and Commissioning	S System Integrated Testing	24	07-Mar-18	30-Mar-18	-206					•							
	3464c	MEP(EVB) - Fire Services & CCMS Commissioning	System Integrated Testing and	24	07-Mar-18	30-Mar-18	-206		-										
	3464a2	MEP(EVB) - TVS E-mode Test (Stag	e 3)	25	16-Mar-18	09-Apr-18	-270			-									
	12608a	MEP(EVB) - Use Permit - Lift		0	16-Mar-18		-176	۵					•						
	12624a	MEP(EVB) - Submission of Form 50	1 to FSD (except SES / SPS)	0	31-Mar-18		-206								•				
	3464a4	MEP(EVB) - TVS N-mode Test (Stag	e 3)	48	11-May-18	27-Jun-18	-235												
	3466	MEP(EVB) - Ready for Statutory Insp	pection	0	15-May-18		-251				۵								•
	12624	MEP(EVB) - Submission of Form 50	1 to FSD (include SES / SPS)	0	15-May-18		-251				4	<b>x</b>							•
	12648	MEP(EVB) - Submission of Form 31	4 to FSD	0	15-May-18		-251				4								•
	KD03M1	MEP(EVB) - Milestone for KD03		0		15-May-18	-219				4								<ul> <li>•</li> </ul>
	Lev		ojeot Busenne	-	hton C amme THRE		e 48	(Febru	uary 2		)	Ba La UC	oject ID: H26 seline: SA0 <sup>-1</sup> yout: Update 48 ge 31 of 43		n Rolling	Date 20-Jan-18 U 20-Feb-18 U	047	Checked AT AT	Appro CW CW

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ctivit	y ID	Activity Name		Original Duration	Start	Finish	Total Float										2018								
	Final Com	pletion Works						{	1		F	eb				Mar				Ap	r		_	N	lay
	3470	EVB - Final Completion works for AF	PS (Charcoal installation)	30	11-Apr-18	10-May-18	-235																		
		-	. , ,		•																				
	3472	EVB - APS Site Acceptance Testing	· • ,	33	25-Apr-18	27-May-18	-208														-	_			
	3488	EVB - Completion of Section 1 (KD)	06)	0		15-May-18	-206							4											•
	Tunnel Fle	exible Pavement (EVB-related)																							
	5820	Road(EB) - (CH3770 to CH5149.3)	Flexible Pavement	12	08-Jan-18 A	01-Mar-18	-154	-	-				_	•											
	5816	Road(WB) - (CH3770 to CH5149.3)	Flexible Pavement	12	02-Mar-18	15-Mar-18	-154		_																
	5824	Road(SR8) - (CH210 to CH1000) Fl	exible Pavement	10	15-Mar-18	26-Mar-18	-161		-		_					-									
	5822	Road(EB) - (CH3770 to CH5149.3)	Road Marking & Traffic Sign	12	02-May-18	15-May-18	-201																	<u> </u>	-
	5818	Road(WB) - (CH3770 to CH5149.3)	Road Marking & Traffic Sign	17	16-May-18	05-Jun-18	-201																		
	Administra	ation Building (ADB)																							
	RC Struct	ures (Portion Xa / Xb)																							
	1/F																								
	GL (A - 0	2)						-																	
	L1-08 V	Vater Pump Room																							
	13580	ADB - L1-08 - Plinths for F.S. Pump		6	28-Feb-17 A	03-Mar-18	-245				_		_	-											
	External F	acade																							
Г	13248	ADB - External facing tiles / Louvre		48	27-Dec-17 A	22-Mar-18	-260						_				_								
Ľ	MEP & AB	WF Works																							
	13254	MEP(ADB) - TCSS Enabling Works	(Remaining TCSS installation)	30	12-Dec-17 A	09-Mar-18	-250																		
	13260	MEP(ADB) - Lift Installation		60	06-Jan-18 A	15-Mar-18	-278						<u></u>												
	13252	ADB - Metal works / steel platform / I	adders / Handrails	42	23-Feb-18	17-Apr-18	-139	:				-													
	13258	MEP(ADB) - E&M Final Completion Inspections	Works; Ready for Statutory	30	10-Mar-18	18-Apr-18	-250		-						I						-				
	E&M Indiv	idual System T&C																							
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ctivity ID	Activity Name		iginal ration	Start	Finish	Total Float		- -		2018	l			
13256a	MEP(ADB) - MVAC system			21-Mar-18	21-Apr-18	-253		Feb		Mar		Apr	-	Мау
13256c	MEP(ADB) - Lift functional test			21-Mar-18	26-Mar-18	-234								
13256f	MEP(ADB) - SAT - Generator System	n	5	21-Mar-18	26-Mar-18	-258		-						
13256g	MEP(ADB) - SAT - UPS		5	21-Mar-18	26-Mar-18	-234		-						
13256h	MEP(ADB) - SAT - LV Capacitor Bar	k	5	21-Mar-18	26-Mar-18	-258		-						
13256i	MEP(ADB) - SAT - 110V DC battery	and charger	5	21-Mar-18	26-Mar-18	-258		-						
132561	MEP(ADB) - SAT - LV Switchboard a	nd Generator Switchboard	5	21-Mar-18	26-Mar-18	-258		_						
13256d	MEP(ADB) - CCMS SAT	4	42	11-Apr-18	31-May-18	-214								
Basement	(GL D - F)													
Sump Pu	mp Room (B-04)													
13274	MEP(ADB) - Installation of Sump Pu	mp 2	24 2	27-Nov-17 A	01-Mar-18	-249								
13276	MEP(ADB) - E&M final fixing	I	12	02-Mar-18	15-Mar-18	-249								
Other Ro	oms / General Area & Corridor													
13262	MEP(ADB) - ABWF Works	1	12 2	20-Nov-17 A	09-Mar-18	-140								
13264	MEP(ADB) - E&M 1st fixing	2	24 (	06-Dec-17 A	16-Mar-18	-140								
13266	MEP(ADB) - E&M 2nd fixing	2	24	15-Dec-17 A	03-Apr-18	-140					-			
13268	MEP(ADB) - E&M final fixing	2	24	17-Mar-18	18-Apr-18	-140						-		
Basement	(GLP-R)													
F.S. Wate	r Tank, Sprinkler Tank & Pump R	oom (B-13)												
13294	MEP(ADB) - E&M final fixing	1	12	18-Jan-18 A	06-Mar-18	-241		_						
Other Ro	oms / General Area & Corridor							_						
13280	MEP(ADB) - ABWF Works	1	12 2	20-Nov-17 A	01-Mar-18	-140								
13282	MEP(ADB) - E&M 1st fixing			06-Dec-17 A	15-Mar-18	-139								
13284	MEP(ADB) - E&M 2nd fixing	2	24	15-Dec-17 A	29-Mar-18	-139								
Leve		bjoor Baboinio	-	amme	Updat	e 48	(Asia)   (Februa ROLLIN	ry 2018	)	Project ID: H2613-U048 Baseline: SA01 Layout: Update Three Month R U048 Page 33 of 43		Date Re 20-Jan-18 U04 20-Feb-18 U04	7 AT	ecked Appro CW CW

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ctivity	/ ID	Activity Name		Original Duration	Start	Finish	Total Float			201	8				
	13286	MEP(ADB) - E&M final fixing		24	16-Mar-18	17-Apr-18	-139	Feb		Mar		Apr		May	
	G/F (GLA-	D)													
		r Room (G-35)													
											ļ				
	13332	MEP(ADB) - Computer Equipment I	nstallation	12	23-Dec-17 A	26-Feb-18	-205								
	13334	MEP(ADB) - E&M final fixing		24	27-Feb-18	26-Mar-18	-205								
	Control C	Centre (G-45)													
	13302	MEP(ADB) - Installation of FS Contr	ol Panel	12	23-Feb-18	08-Mar-18	-214								
	191375	MEP(ADB) - Installation of Control c	onsoles and video wall for	12	23-Feb-18	08-Mar-18	-214								
	13304	TCSS MEP(ADB) - E&M final fixing		24	09-Mar-18	10-Apr-18	-214	·····		· · · · · · · · · · · · · · · · · · ·	<u></u>				
				24	09-1011-10	10-Api-18	-214								
	Emergen	cy Generator Room (G-43)													
	13322	MEP(ADB) - Cable laying & termina	tion to Genset & Switchboard	30	29-Dec-17 A	08-Mar-18	-248								
	Other Ro	oms / General Area & Corridor													
	13308	MEP(ADB) - ABWF Works		24	25-Oct-17 A	15-Mar-18	-139		-						
	13310	MEP(ADB) - E&M 1st fixing		24	08-Nov-17 A	29-Mar-18	-139								
	13312			24	22-Dec-17 A	29-Mar-18	-139								
		MEP(ADB) - E&M 2nd fixing		24											
	13314	MEP(ADB) - E&M final fixing		24	16-Mar-18	17-Apr-18	-139								
	G/F (GL D ·	·N)													
	F.S. Cont	rol Room (G-21)													
	13354	MEP(ADB) - E&M 2nd fixing		12	02-Jan-18 A	27-Feb-18	-247					++-			
	13350	MEP(ADB) - Installation of FS Contr	ol Panel	18	12-Jan-18 A	08-Mar-18	-255								
	13352	MEP(ADB) - E&M final fixing		12	09-Mar-18	22-Mar-18	-255								
				12	00 100-10	mai-10	-200		-						
	HKE / HV														
	13360	MEP(ADB) - HKE HV Switch Rooms	installation	48	19-Dec-17 A	20-Mar-18	-258								
	13362	MEP(ADB) - Meter Installation / Pow for cable trench from C19)	er On (Delay due to late access	0		20-Mar-18	-258	<b>A</b>		•					
	🔶 Cur	rent Milestone	emaining Work		abton C	ontra	otoro	(Asia) Limited	Proie	ct ID: H2613-U0	)48	Date		Checked	
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ctivity	/ ID	Activity Name	Origina Duration	Start	Finish	Total Float							2018	<b>I</b>				
	Un-inter	rupted Power Supply (UPS) Room		1			; ;		F	eb			Mar	Apr		:	May	, 
	13400	MEP(ADB) - Cable laying & terminat		08-Jan-18 A	08-Mar-18	-224					_							
		oms / General Area & Corridor									_							
	13338	MEP(ADB) - ABWF Works	24	25-Oct-17 A	01-Mar-18	-157												
	13340	MEP(ADB) - E&M 1st fixing	24	13-Dec-17 A	08-Mar-18	-145					-							
	13342	MEP(ADB) - E&M 2nd fixing	24	29-Dec-17 A	15-Mar-18	-151			_									
	13344	MEP(ADB) - E&M final fixing	24	02-Mar-18	29-Mar-18	-151	_											
	G/F (GL P -	R)																
	Other Ro	oms / General Area & Corridor																
	13406	MEP(ADB) - ABWF Works	12	06-Jan-18 A	08-Mar-18	-157						-						
					08-Mar-18													
	13408	MEP(ADB) - E&M 1st fixing	24	10-Jan-18 A		-157												
	13410	MEP(ADB) - E&M 2nd fixing	24	23-Feb-18	22-Mar-18	-157		-										
	13412	MEP(ADB) - E&M final fixing	24	09-Mar-18	10-Apr-18	-157												
	1/F (GL A -	D)																
	Water Pu	ımp Room (L1-08)																
	13424	MEP(ADB) - E&M 1st fixing	12	14-Nov-17 A	10-Mar-18	-245			_									
	13430	MEP(ADB) - E&M 2nd fixing	12	18-Dec-17 A	10-Mar-18	-245												
	13426	MEP(ADB) - Installation of water Pur	np 24	28-Dec-17 A	10-Mar-18	-245				_								
	13428	MEP(ADB) - E&M final fixing	24	10-Jan-18 A	15-Mar-18	-249					_							
						2.0												
		oms / General Area & Corridor																
	13414	MEP(ADB) - ABWF Works	24	01-Dec-17 A	01-Mar-18	-243												
	13416	MEP(ADB) - E&M 1st fixing	24	14-Dec-17 A	15-Mar-18	-139												
	13418	MEP(ADB) - E&M 2nd fixing	24	28-Dec-17 A	29-Mar-18	-139												
	13420	MEP(ADB) - E&M final fixing	24	16-Mar-18	17-Apr-18	-139									I			
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ctivity ID	Activity Name		Original Duration	Start	Finish	Total Float					2018				
External W			Duration					Feb			Mar	1	Apr	May	
13432	ADB - Road and drainage works (E	VA)	42	11-Dec-17 A	05-Mar-18	-260									
13438	ADB - Final completion works (inclu	de CCMS interface)	60	09-Jan-18 A	14-Apr-18	-271									
13434	ADB - External concrete pavement	(EVA)	24	18-Jan-18 A	17-Mar-18	-271			-						
13436	ADB - External Fence Wall (indude	metal gate)	20	19-Mar-18	14-Apr-18	-271									
E&M lesti	ng &Commissioning / Statutory I	nspection													
13454	MEP(ADB) - Submission of Form 5 t	to EMSD	0	27-Mar-18		-201			4		•				
13454a	MEP(ADB) - Use Permit - Lift		0	10-Apr-18		-201					Δ	•			
13444	MEP(ADB) - Ready for Statutory Ins	pection	0	15-Apr-18		-337							•		
13456	MEP(ADB) - Submission of Form 50	01 to FSD	0	15-Apr-18		-337							•		
									4	<b>_</b>					
13462	MEP(ADB) - Submission of Form 31	4 to FSD	0	15-Apr-18		-221			4				•		
KD03M7	MEP(ADB) - Milestone for KD06		0		18-Apr-18	-180			4				•		
3660a2	MEP(ADB) - TVS & CCMS System I Commissioning	ntegrated Testing and	36	03-May-18	07-Jun-18	-270						_			
Final Com	pletion Works														
13464	ADB - TCSS & other E&M systems S	Site Acceptance Test	18	11-Apr-18	28-Apr-18	-221									
	-														
13468	ADB - Tunnel FS operation test		30	15-Apr-18	14-May-18	-337				4					
KD05M8	TCSS SAT (ADB) - Milestone for KD	05	0		28-Apr-18	-144					4		•		
Landscapi	ng and Irrigation System														
13588	ADB - Final completion test for irriga	ation systems in PortionXa and	60	15-May-18	13-Jul-18	-337									
East Ventil	xb ation Shaft (EVS)														
ABWF Wo	KS														
3822	EVS - ABWF (Wet Trade) (Progress rainy weather)	affected by high humidity and	60	12-Apr-16 A	01-Mar-18	-155									
3826	EVS - ABWF (Dry Trade)		60	20-Sep-17 A	15-Mar-18	-126									
3830	EVS - Metal works / steel platform / L	Ladders / Handrails	48	19-Dec-17 A	15-Mar-18	-126									
		1													
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ctivity ID	Activity Name		Original Duration	Start	Finish	Total Float								2018						
External F	Facade								F	eb			Mar			Apr			May	
				07 5 4 47 4		450											ļļ			
19060	EVS -Cone louvre installation		24	07-Feb-17 A	08-Mar-18	-152														
3832	EVS - Architectural Features of EVS		120	12-Jul-17 A	29-Mar-18	-113														
MEP Work	ks																			
3836	MEP(EVS) - E&M 1st Fix		12	05-Sep-17 A	01-Mar-18	-155					-	•								
3838	MEP(EVS) - E&M 2nd Fix		12	20-Sep-17 A	08-Mar-18	-155														
19054	MEP(EVS) - Lightning protection sys	atom installation and TSC		11-Oct-17 A	08-Mar-18	-152											ļļ			
19054			12		00-10141-10	-152														
3840	MEP(EVS) - E&M Final Fix		12	02-Mar-18	15-Mar-18	-155														
3844	MEP(EVS) - E&M Individual System	T&C	12	02-Mar-18	15-Mar-18	-155														
3846	MEP(EVS) - E&M Final Completion Inspections	Works; Ready for Statutory	6	16-Mar-18	22-Mar-18	-155							-	-						
19056	MEP(EVS) - Features lighting install	lation and T&C	24	03-Apr-18	02-May-18	-113		÷										-		
External V	Vorks																			
3850	EVS - External concrete pavement		12	09-Mar-18	22-Mar-18	-152		_					-	-						
3854	EVS - Final completion works (inclu-	de CCMS interface)	12	13-Mar-18	26-Mar-18	-155							_							
E&M Testi	ing &Commissioning / Statutory I	nspection																		
3856	MEP(EVS) - E&M System Integrated	Testing and Commission in g	6	21-Mar-18	26-Mar-18	-195								-						
3858	MEP(EVS) - Ready for Statutory Ins	pection	0	27-Mar-18		-195					4	4		٠						
12628	MEP(EVS) - Submission of Form 50	1 to FSD	0	27-Mar-18		-149					4	<b>X</b>		٠						
KD03M4	MEP(EVS) - Milestone for KD03		0		27-Mar-18	-170					4			٠						
3860	MEP(EVS) - Statutory Inspection & ( inspection)	Certificates (include FSD	24	10-Apr-18	03-May-18	-195														
Final Com	pletion Works																			
3880	EVS - Completion of Section 1 (KD	06)	0		03-May-18	-195								4				•		
Satellite C	ontrol Points 4 / 5																			
SCP4																				
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	itical Remaining Work			THRE	E MO	NTH	ROL	LIN	G			U04 Paç	48 ge 37 of 43							

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ctivity ID	Activity Name	I	Original Duration	Start	Finish	Total Float	-					2	)18	<b>I</b>				
3778	SCP4 - Initial Site Survey		6	23-Feb-18	01-Mar-18	-196			Feb			Mar			Apr			May
3778a	SCP4 - Construction details from AE	ECOM	0	23-Feb-18*		-196				•								
3780	SCP4 - Erect Hoarding		6	02-Mar-18	08-Mar-18	-196												
3782	SCP4 - Mobilisation and setup		12	09-Mar-18	22-Mar-18	-196												
																_		
3784	SCP4 - Construct SCP RC Structure	es	24	23-Mar-18	24-Apr-18	-196												
3786	SCP4 - ABWF Works		24	25-Apr-18	24-May-18	-196												
3798	SCP4 - External Works		24	25-Apr-18	24-May-18	-143												
3788	MEP(SCP4) - E&M 1st Fix		18	27-Apr-18	18-May-18	-196												
10112	MEP(SCP4) - TCSS Enabling Work	s (Remaining TCSS installation)	18	27-Apr-18	18-May-18	-196												
3790	MEP(SCP4) - E&M 2nd Fix		18	08-May-18	29-May-18	-155											-	
3824	SCP4 - Metal works / Glazing / Louv	er / Handrails	18	10-May-18	31-May-18	-149											•	
3792	MEP(SCP4) - E&M Final Fix		18	17-May-18	07-Jun-18	-155												
SCP5																		
3828	SCP5 - Mobilization for Area B		0	23-Feb-18		-207				•								
3848	SCP5 - Initial Site Survey		6	23-Feb-18	01-Mar-18	-207												
3827	C19 allow access for SCP5 construct	ction	0	23-Feb-18*		-207				•								
3827a	Construction details from AECOM		0	23-Feb-18*		168				•								
3852	SCP5 - Erect Hoarding		4	02-Mar-18	06-Mar-18	-207					-							
3868	SCP5 - Mobilisation and setup		2	07-Mar-18	08-Mar-18	-207												
3870a	SCP5 - Construct walls upto R/F - Fa	alseworks & Formwork	4	09-Mar-18	13-Mar-18	-207					-							
3870b	SCP5 - Construct walls upto R/F - R	ebar fixing	3	14-Mar-18	16-Mar-18	-207												
3870c	SCP5 - Construct walls upto R/F - C	lose formwork	4	17-Mar-18	21-Mar-18	-207						-						
3870d	SCP5 - Construct beams & slab upt	o R/F - Scaffolding, falsework &	4	22-Mar-18	26-Mar-18	-207												
3870e	SCP5 - Construct beams & slab upt	o R/F - Rebar fixing	3	27-Mar-18	29-Mar-18	-207							-					
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Data Date: 20-F	eb-18	TASK					nissioning Cont Original Sections, No S	y, Not HL.		
ctivity ID	Activity Name		Original Duration	Start	Finish	Total Float		2018		
3870f	SCP5 - Construct beams & slab upto	o R/F - Concreting	1	03-Apr-18	03-Apr-18	-207	Feb	Mar	Apr May	
3872	SCP5 - ABWF Works		18	04-Apr-18	25-Apr-18	-201				
3886	SCP5 - External Works		24	04-Apr-18	03-May-18	-207		•		
3874	MEP(SCP5) - E&M 1st Fix		12	04-May-18	17-May-18	-207		 		
10114	MEP(SCP5) - TCSS Enabling Works	s (Remaining TCSS installation)	12	18-May-18	01-Jun-18	-207				
External W	orks									
Rumsey St	reet Flyover for Paymnet & Tra	ffic Barrier								
5902a	RS - TTA preparation and approval		114	15-Sep-17 A	06-Mar-18	-174		-		
5902j	RS - Modification of edge parapet at	t Bridge B	84	01-Dec-17 A	17-Mar-18	-154				
5902a1	RS - Application of gazatte for reduc	ed speed	24	02-Jan-18 A	31-Jan-18 A					
5902c	RS - Disconnect and diversion of lig divider	hting cables to top of central	12	22-Jan-18 A	09-Feb-18 A					
5902b	RS - Modification of existing edge pa	arapetat Connaught Road	108	23-Feb-18	07-Jul-18	-174				
5902d	RS - Removal of central divider and	replace with waterfilled barriers	120	23-Feb-18	21-Jul-18	-140				
5902e	RS - Removal of sign gantry GS5 at	CORC W/B	6	05-Mar-18	10-Mar-18	-140				
5902h	RS - Removal of existing street light	and replace with temp light	6	12-Mar-18	17-Mar-18	-130				
5902i	RS - TCSS and electric cable laying FADS01	for FVMS1, ADS01 and	24	19-Mar-18	19-Apr-18	-154				
5902m	RS - Demolish existing nosing and o	crush cushion	48	19-Mar-18	18-May-18	-148				
5902f	RS - Removal of sign gantry HSN48	at CORC E/B	6	26-Mar-18	04-Apr-18	-140				
5902n	RS - Paving works on Bridge B		12	06-Apr-18	19-Apr-18	-148				
5902g	RS - Install new directional sign		6	12-May-18	18-May-18	-140				
Area A/B										
Area A TCS										
10288a3	Request for VO/instruction-TCSS eq (Gantries FVMS1 / ADS01) (Ref: H2	upment installation & cabling 7613-LJV-ME-LE-4022)	24	04-Oct-16 A	01-Mar-18	-140		 ·····		
Area B										
Leve Leve Bas Actu				amme	Updat	e 48	(Asia) Limited (February 2018) ROLLING	Project ID: H2613-U048 Baseline: SA01 Layout: Update Three Month Rollin U048 Page 39 of 43		Appro CW CW

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ctivity	ID	Activity Name		Original Duration	Start	Finish	Total Float	<u> </u>					-			2018									
				Duration						Fel	b		1		Mar	2010			A	pr		+ :	Ma	у	
	Area B ACC	ess / Pre-SAT																							
	10288c4	Area B - TCSS temporary workshop	setup	50	01-Sep-17 A	02-Mar-18	-191				-	-													
	10288c10	Area B - Pre-SAT & Pre-SCT Plan ar	nd Procedure	50	01-Sep-17 A	06-Mar-18	-194							-											
	10288c6	Area B - TCSS software Pre-SAT		84	10-Oct-17 A	16-Mar-18	-203			_	-	-													
	10288c14	Area B - CCMS Pre-SAT Test (MVB)		48	12-Jan-18 A	14-Apr-18	-187					-													
	10288c16	Area B - CCMS Pre-SAT Test (EVB)		48	12-Jan-18 A	14-Apr-18	-187				-			_	_										
		C19 allow access at Area B - TCSS and ADB	& ELV connecting Tunnel Portal	0	05-Feb-18 A				•																
	10288f1	C19 allow access at Area B-Base sla App Ramp connecting East Portal (ir		0	20-Feb-18*		-244				•														
	10288f1a	C19 allow access at Area B - Base s of Approach Ramp connecting to Ea		0	20-Feb-18*		-250				•														
	10288f2	C19 allow access at Area B - Landso	cape Deck	0	21-Feb-18*		-249		4		•														
	10288f	C19 allow access at Area B - Remain Double Noise Enclosure	ning area at IEC bridge East to	0	28-Feb-18*		-237						2												
		C19 allow access at Area B - Landso CH5260)	cape Deck (From CH5150 -	0	31-Mar-18*		-264								4		•								
	Area B TCS	S																							
	Approach	Road / Landscape Deck / Noise I	Enclosure (No TTA)																						
	10288b14	Area B TCSS cable connection from control rooms (C19 civil provision m		8	05-Feb-18 A	24-Feb-18	-204																		
		Area B TCSS cabling (Base slab / ap East Portal with civil provision)		18	23-Feb-18	15-Mar-18	-199																		
	10288b20	Area B TCSS cabling (Noise Enclos TTA)	ure with civil provision - No	18	23-Feb-18	15-Mar-18	-169							-											
	10288b36	Area B cabling along existing IECL s civil provision must be ready for cab		12	23-Feb-18	08-Mar-18	-193							-											
		Area B cabling along existing IECL s civil provision must be ready for cab	ling)	12	23-Feb-18	08-Mar-18	-193																		
	10288b32	Area B TCSS Pre-test (East Portal to	ADB)	6	16-Mar-18	22-Mar-18	-181			<u> </u>															
	10288b1	Area B TCSS equipment installation IEC's Westbound) - GT3, GT2, Sm C		18	03-Apr-18	24-Apr-18	-211							-							•				
	10288b18	Area B TCSS cabling & field equipm Deck with civil provision)	ent installation (Lanscape	10	03-Apr-18	14-Apr-18	-187								-		•								
	10288b2	Area B TCSS equipment installation IEC's Eastbound) - CCTV & AID	and cable termination (on	12	25-Apr-18	09-May-18	-211							_		-					-				
	10288b4	Area B TCSS equipment Testing & C	Commissioning	25	26-Apr-18	26-May-18	-196																		
	A C:	ent Milestone	maining Work					Ľ	! ! !	!			<u> </u>						<u> </u>	Date	Re	vision	Checke	dApp	ro
			emaining Work oject Baseline	_eig	hton C	ontra	ctors	; (As	sia) L	imite	d				t ID: H26 ne: SA01		3		2	20-Jan-18	_		AT	CW	
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ctivity ID		Activity Name		Original Duration	Start	Finish	Total Float		1					2018	I	-		- 1		
		Area B TCSS equipment installation IEC's Westbound) - DS06B	and cable termination (on	9	10-May-18	19-May-18	-211			Feb			Mar		-	Apr			May	_
		losure (Live Traffic, TTA) - Night	Shift																	
	10288b6b	Area B FADS06 sign face installation	n	4	02-Apr-18*	05-Apr-18	-249													
	10288b6	Area B TCSS equipment installation IEC's Westbound) - FADS06	and cable termination (on	10	06-Apr-18	17-Apr-18	-198													
	10288b6c	Area B DS06A sign face installation		1	15-Apr-18*	15-Apr-18	-255								0	1				
	10288b6a	Area B TCSS equipment installation IEC's Westbound) - DS06A	and cable termination (on	6	16-Apr-18	21-Apr-18	-202													
		Area B TCSS equipment installation IEC's Eastbound) - FADS08A	and cable termination (on	6	18-Apr-18	24-Apr-18	-190									_	-			
	10288b8	Area B TCSS equipment Testing & C	Commissioning	20	23-Apr-18	16-May-18	-202												_	-
	Existing I	EC (Live Traffic, TTA) - Night Shi	ft																	
	10288b24	ADS06 A-frame and main beam con	npletion by C19	0		18-Mar-18*	-231				4	4	•							
	10288b30	Area B TCSS cabling (Existing IEC v	with civil provision)	24	19-Mar-18	19-Apr-18	-186													
	10288b24	Area B TCSS equipment installation IEC's Westbound) - ADS06	and cable termination (on	10	19-Mar-18	29-Mar-18	-166						-							
		Area B TCSS equipment installation IEC's Westbound) - VMS7	and cable termination (on	14	25-Apr-18	11-May-18	-190										_		_	
	10288b26	Area B TCSS equipment Testing & C	Commissioning	12	17-May-18	31-May-18	-202												_	
-	Area B Tunr	nel Lighting																		
	Landscape	e Deck																		
	10288c1	Area B Tunnel Lighting (Landscape Containment / Conduit / Junction Bo		18	23-Feb-18	15-Mar-18	-202													
		Area B Tunnel Lighting (Landscape (Cable Trench)	Deck) - Bracket installation	18	23-Feb-18	15-Mar-18	-202					1	_							
		Area B Tunnel Lighting (Landscape Trench)	Deck) - Cable laying (Cable	24	03-Apr-18	02-May-18	-191											-		
	10288c8	Area B Tunnel Lighting (Landscape Containment/Conduit/Junction Box i	Deck) - Brackets/Cable installation (CH5150-CH5260)	30	03-Apr-18	09-May-18	-214						_				-			
	10288c2	Area B Tunnel Lighting (Landscape installation (Base / Reinforcement light)	Deck) - Tunnel Lighting ghting)	34	13-Apr-18	24-May-18	-214									_				
		Area B Tunnel Lighting (Landscape cable wiring (High Level)	Deck) - Cable laying / Control	42	21-Apr-18	11-Jun-18	-214									_				
	10288d5	Area B Tunnel Lighting (Landscape (Cable Trench)	Deck) - Cable termination	17	03-May-18	23-May-18	-191													
	10288d4	Area B Tunnel Lighting (Landscape (High Level)	Deck) - Cable termination	38	05-May-18	20-Jun-18	-214													
		ent Milestone	emaining Work					/ !	\ I ! !			Proio	et ID: Hoe	i13-U048	:	Date	Re	vision	Checked	Appro
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ctivity	ID	Activity Name		Original Duration	Start	Finish	Total Float								2018					
	Pomaini	ng Area (Noise Enclosure) (No TTA	Poquired)					; ;	; ;	Feb		;	;	Mar		;	Apr	;	N	lay
														ļ						
	18000	Area B - C19 Handover of complete SCP-5 to CH 5420 / Bridge F1B1 / F		0	23-Feb-18*		-205													
	18016	Area B - Mobilization		1	23-Feb-18	23-Feb-18	-205				1									
	18002	Area B (Remaining No TTA) - Cable	laying along cable duct	11	24-Feb-18	08-Mar-18	-205					-								
	18004	Area B (Remaining No TTA) - Noise installation	enclosure lighting brackets	57	09-Mar-18	19-May-18	-205					-								
	18006	Area B (Remaining No TTA) - Cable	containment installation	37	16-Apr-18	30-May-18	-205													
	Remaini	ng Area (TTA Required) - Night Sh	lift																	
	WestBo	und																		
	19016b	Area B (Remaining need TTA) - Noi installation (Continue)	se enclosure lighting brackets	50	16-Jan-18 A	29-Mar-18	-215	: : : :					-	 	_					
	19018	Area B (Remaining need TTA) - Cat	ble containment installation	29	03-Apr-18	08-May-18	-215													
	19020	Area B (Remaining need TTA) - Nois installation	se enclosure lighting	22	09-May-18	04-Jun-18	-215											-		
C	Commissi	oning Test																		
	For Tunne	Opening																		
Г	9900	Integrated System Test		60	19-May-18	17-Jul-18	-270													_
	Fraining / I	Plan / Manual for Project Com	pletion																	
Γ	10128	Operation Training		138	17-May-18	31-Oct-18	-214											_		
	Operation	Manual for CWB Opening					]													
	10198	Operation Manual for CWB opening Centre 9A. 9B)	g - Draft submission (Cost	24	23-Feb-18	22-Mar-18	-202			_	•				-					
	10198a	Operation Manual for CWB opening Centre 9C. 9D)	- Draft submission (Cost	24	23-Mar-18	24-Apr-18	-202			_								•		
	191281	Operation Manual for CWB opening Approval	g - Draft (Cost Centre 9A. 9B)	24	23-Mar-18	24-Apr-18	-196			_										
	10198b	Operation Manual for CWB opening Centre 9E. 9F)	- Draft submission (Cost	24	25-Apr-18	24-May-18	-202							-						
	19128a1	Operation Manual for CWB opening Approval	g - Draft (Cost Centre 9C. 9D)	24	25-Apr-18	24-May-18	-130							•						
	10196	Operation Manual for CWB opening Centre 9A, 9B)	J - Final submission (Cost	24	03-May-18	31-May-18	-160								_			_		
	Training Pl	an for CWB Opening																		
	🔶 Cu	rrent Milestone	emaining Work	منم	hton C	ontra	ctore	(۸۰	ia) Lir	nito	4		Proje	ct ID: H261	3-U048		Date	Revi		ed Appro
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		tical Remaining Work		EE MO	NTH	ROL	LLING				U048 Page	42 of 43								
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Activity ID	Activity Name	1	Original Duration	Start	Finish	Total Float	t					201	8		-	 	
10206	Training Plan for CWB opening - D	raft submission	18	12-Sep-17 A	01-Mar-18	-214			Feb	_		Mar			Apr	May	/
10206a	Training Plan for CWB opening - D	raft approval	18	02-Mar-18	22-Mar-18	-208	5										
10208	Training Plan for CWB opening - Fi	nalsubmission	18	23-Mar-18	17-Apr-18	-208	•					•			-	 	
10208a	Training Plan for CWB opening - Fi	nalapproval	18	18-Apr-18	09-May-18	-208		-								-	
Training Ma	aterial for CWB Opening																
10210	Training Material for CWB opening	- Draftsubmission	18	15-Nov-17 A	08-Mar-18	-214											
10210a	Training Material for CWB opening	- Draftapproval	18	09-Mar-18	29-Mar-18	-214		=			•						
10212	Training Material for CWB opening	- Final submission	18	03-Apr-18	24-Apr-18	-214							•				
10212a	Training Material for CWB opening	- Final approval	18	25-Apr-18	16-May-18	-214									I		-
Maintenan	ce Manual / Plan																
10200	Maintenance Plan		18	25-Apr-18	16-May-18	-184						=			- '		-
10220	Maintenance Manual / logbook - Dr	raft submission	18	17-May-18	07-Jun-18	-184										_	
Lev Lev Bas Actu	rrent Milestone R rel of Effort P seline Milestone ual Work tical Remaining Work	roject Baseline	-	hton C amme THRE		te 48	(Febr	ruary 2		)	Basel Layou U048	t ID: H2613-U ine: SA01 it: Update Thre 43 of 43		ŀ	Date 20-Jan-18 20-Feb-18	AT AT AT	d Appro CW CW