



### 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/D, 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/B

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

- AUGUST 2016 -

**CLIENTS:** 

**Civil Engineering and Development Department** 

and

**Highways Department** 

PREPARED BY:

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DATE:

12 September 2016



Ref.: AACWBIECEM00\_0\_8506L.16

12 September 2016

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

By Post and Fax (2691 2649)

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 (August 2016) for EP-364/2009/D, 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/B

Reference is made to the Environmental Team's submission of the captioned Monthly Environmental Monitoring and Audit (EM&A) Report for August 2016 received by email on 12 September 2016 for our review and comment.

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

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

Yours sincerely,

David Yeung

Independent Environmental Checker

C.C.

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## **Lam Geotechnics Limited**

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### **EXECUTIVE SUMMARY**

- i. This is the Environmental Monitoring and Audit (EM&A) Monthly Report August 2016 specific for Environmental Permit no. EP-364/2009/D, 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 and FEP-11/364/2009/B. 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 July 2016 to 26 August 2016.
- ii. The implementation of the Environmental Monitoring and Audit Programme for the Wan Chai Development phase II and Central-Wan Chai Bypass Project has been taken over by the Lam Geotechnics Limited (LGL) under Contract HK/2015/01 Wan Chai Development Phase II and Central Wanchai Bypass Sampling, Field Measurement and Testing Works (Stage 3) from 27 December 2015 in continuation of the previous Environmental Team employed under Contact HK/2011/07 Wan Chai Development Phase II and Central Wanchai Bypass Sampling, Field Measurement and Testing Works (Stage 2).
- iii. In the reporting month, 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

- Drainage works
- Road works
- Landscaping works
- Modification and Construction of Sign Gantries / Traffic Signs
- Maintenance works

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

- Stage 4 backfilling works
- Reinstatement of outfall
- Road and Drain works

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

- Remedial works against water leakage and concrete defects
- Installation of precast concrete covers
- · Middle and side wall construction
- Tunnel top slab construction
- Removal of Eastern Bulkhead Wall
- Waterproofing layer at tunnel top slab
- Removal of ELS S4



- Excavation work
- ELS S1 layer installation
- Pumping test
- Removal of remaining sheet piles and temporary seawall blocks
- Erection of hoarding for the demolition of ex-WSD Salt Water Pumping Station
   Demolition of ex-WSD salt water pumping station
- Backfilling works of HKE Cable connection works

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

 Remedial works inside tunnel structure at Mined Tunnel, TS4, TPCWAE and TPCWAW

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

- Construction of EVB
- Approach ramp sheet piling, pre-bored piling and top soil removal works
- Bridge construction and segment erection
- · Hing Fat Street modification works
- Hing Fat Street Slip Road Bridge E L3 railing construction
- EVB waterproofing & back filling works
- Pier 22 to 28 Tie Beam construction

## <u>Contract no. HK/2012/08 – Wan Chai Development Phase II – Central- Wan Chai Bypass at</u> Wan Chai West under FEP-09/364/2009B

- Grouting
- Construction of MVB and CWB Tunnel
- Construction of concrete plug
- Excavation and lateral support installation for CWB tunnel

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

- Tree protection works next to existing BGO,
- Drainage improvement works,
- Excavation and Lateral Support for U-structure,
- Grouting works,
- Utility diversion works,
- Retaining wall works
- ELS works,
- Construction works for subway extension



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

- Construction of Ventilation Buildings, inclusive of Administration Building, East Ventilation Shaft, 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 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 month.
- v. 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. 24-hour real time noise monitoring was conducted at RTN1 FEHD Hong Kong Transport Section Whitfield Depot for construction activities at IEC bridge deck. No project related exceedance was recorded in the reporting month.
- vii. 24-hour real time noise monitoring was conducted at RTN2a Hong Kong Electric Centre. No project related exceedance was recorded in the reporting month.
- viii. 24-hour real time noise monitoring was conducted at RTN3 Yu Lee Mo Fan Memorial School. No project related exceedance was recorded in the reporting month.
- ix. 24-hour real time noise monitoring was conducted at RTN4 Causeway Bay Community Centre. Project related exceedance and non-Project related exceedances were recorded in the reporting month.

### **Air Quality Monitoring**

- x. 1-hour and 24-hour Total Suspended Particulates (TSP) monitoring were conducted at CMA1b Oil Street Site Office; CMA2a Causeway Bay Community Center; CMA3a CWB PRE Site Office Area; CMA4a Society for the Prevention of Cruelty to Animals; CMA5b Pedestrian Plaza; MA1e and MA1w International Finance Centre eastern and western podium on every six days basis.
- xi. One 1hr TSP action level exceedance was recorded at CMA1b- Oil Street Site Office on 27 August 2016 in the reporting month. The exceedance was concluded as non-project related.
- xii. Due to interruption of electricity supply, the following TSP monitoring were rescheduled:The 24hr TSP monitoring at air quality monitoring station CMA1b was rescheduled from 09
  August 2016 to 10 August 2016.
  - The 24hr TSP monitoring at air quality monitoring station CMA3a was rescheduled from 26 August 2016 to 27 August 2016.
  - The 24hr TSP monitoring at air quality monitoring station CMA5b was rescheduled from 28 July 2016 and 26 August 2016 to 29 July 2016 and 27 August 2016 respectively.
  - The 24hr TSP monitoring at air quality monitoring station MA1e was rescheduled from 15 August 2016 and 20 August 2016 to 16 August 2016 to 22 August 2016 respectively.

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### **Lam Geotechnics Limited**

## Complaints, Notifications of Summons and Successful Prosecutions

xiii. No environmental complaint, notification of summons and prosecution was received in the reporting month.

## Site Inspections and Audit

- xiv. The Environmental Team (ET) conducted weekly site inspections for Contract no. HY/2009/15, 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.
- xv. 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.
- xvi. 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.
- xvii. The Contractors rectified major observations and recommendations made during the audit sessions. No non-conformance was identified during the site inspections.



### Future Key Issues

xviii. In the coming reporting month, 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 FEP-05/364/2009/A</u>

- Drainage works
- Road works
- Landscaping works
- Modification and Construction of Sign Gantries / Traffic Signs
- Maintenance works

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

- Reinstatement of outfall
- Road and Drain works

## 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

- Concreting of protective screeding on tunnel top slab
- Tunnel wall and top slab construction
- ELS S4 removal
- Waterproofing layer at tunnel top slab
- Tunnel backfilling
- General cleaning of OHVD & tunnel base slap, carrier drain and cross road duct.
- Bulkhead wall removal works
- Excavation work
- Strut installation
- Demolition of ex-WSD Salt Water Pumping Station

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

 Remedial works inside tunnel structure at Mined Tunnel, TS4, TPCWAE and TPCWAW

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

- Approach ramp sheet piling, pre-bored piling and top soil removal works
- Bridge construction
- Hing Fat Street modification works
- Hing Fat Street Slip Road Bridge E L3 railing construction
- EVB waterproofing & back filling works
- Pier 22 to 28 Tie Beam construction continues
- Oil Street drainage works



Excavation / Construction of retaining wall

## <u>Contract no. HK/2012/08 – Wan Chai Development Phase II – Central- Wan Chai Bypass at Wan Chai West under FEP-09/364/2009/B</u>

- Grouting
- Construction of MVB and CWB Tunnel
- · Construction of concrete plug
- Excavation and lateral support installation for CWB tunnel

## 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,
- Excavation and Lateral Support for U-structure,
- Grouting works,
- Utility diversion works,
- Retaining wall works
- ELS works,
- Construction works for subway extension

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

- Construction of Ventilation Buildings, inclusive of Administration Building, East Ventilation Shaft/Building, West Ventilation Building
- Construction of Tunnel Thermal Barrier
- 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/D 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-10/364/2009B and FEP-11/364/2009B 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/D, 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 and FEP-11/364/2009/B during the period 27 July 2016 to 26 August 2016.

## 1.2 Structure of the Report

- **Section 1** *Introduction* details the scope and structure of the report.
- **Section 2 Project Background** summarizes background and scope of the project, site description, project organization and contact details of key personnel during the reporting period.
- **Section 3** 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



PROJECT BACKGROUND

## 2.1 Background

2

- 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.

Table 2.1 Schedule 2 Designated Projects under this Project

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

## 2.3 Division of the Project Responsibility

- 2.3.1. Due to the multi-contract nature of the Project, there are a number of contracts sub-dividing the whole works area into different work areas to be commenced. Contractors of individual contracts will be required by the EP holder to apply Further Environmental Permits 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

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
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*:

Table 2.3 Contact Details of Key Personnel

Party	Role	Post	Name	Contact No.	Contact Fax
AECOM	Engineer's Representative for WDII	Principal Resident Engineer	Mr. Frankie Fan	2587 1778	2587 1877
	Engineer's Representative for CWB	Principal Resident Engineer	Mr. Peter Poon	3912 3388	3912 3010
Chun Wo –	Contractor under Contract no. HK/2009/01	Project Manager	Mr. Simon Liu	2162 9909	2634 1626
Leader Joint Venture		Site Agent	Mr. Andy Yu	9648 4896	
		Construction Manager	Mr. Terry Wong	9757 9846	
		Construction Manager	Mr. Wyman Wong	9627 2467	



Party	Role	Post	Name	Contact No.	Contact Fax
		Construction Manager	Mr. Terry Tsang	6683 9394	
		Environmental Officer	Ms. Wendy Ng	9803 0057	
		Assistant Environmental Engineer	Ms. Connie Chan	6157 7057	
Chun Wo – CRGL Joint	Contractor under Contract	Site Agent	Mr. K.K. Yuen	3658-3002	2827 9996
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 Venture	under Contract no. HY/2009/19	Deputy Project Manager	Mr. William Luk	9456 9819	
		Deputy Site Agent	Eric Fong	6191 9337	
		Environmental Manager /	Mr. M.H. Isa	3757 8218	2570 8013
		Environmental Officer			
		Assistant Environmental Officer	Mr. Tom Ding	3757 8217	
Leighton	Contractor	Site Agent	Mr. Jimmy Chu	2214 7700	2140 6799
Contractors (Asia) Limited	under Contract no. HY/2009/18	Environmental Officer	Mr. Chris Chan	2823 1161	
		Assistant Environmental Engineer	Mr. Christy So	3937 1065	
China State	Contractor	Project Director	Mr. Chris Leung	3557 6393	2865 5229
Construction Engineering	under Contract no. HY/2009/15	Site Manager	Mr. Y. Huo	3557 6368	2566 2192
(HK) Ltd.	119.111/2000/10	Contractor's Representative	Mr. Rex Chan	3557 6371	
		Environmental Officer	Mr. Andy Mak	3557 6215	
		Environmental Supervisor	Mr. Harry Wong	3557 6348	
China State-	Contractor	Project Director	Mr. C.N. Lai	9137 1811	2877 1522
Leader JV	under Contract no. HK/2012/08	Project Manager	Mr. Eddie Chung	9193 8871	]
		Site Agent	Mr. Keith Tse	9095 7922	
		Environmental Officer	Mr. James MA	9130 9549	
		Environmental Supervisor	Mr. Y.L. Ho	6050 4919	



Party	Role	Post	Name	Contact No.	Contact Fax
China State	Contractor under Contract	Project Director	Cheung Kit Cheung	3557 6399	2566 8061
	no.HY/2010/08	Project Manager	Chan Ying Lun	9812 0592	
		Deputy Project Manager	Chris Leung	3467 4299	
		Site Agent	Mr. Andrew Wong	3467 4277	
		Environmental Officer	Mr. Gabriel Wong	3557 6464	
		Environmental Supervisor	Mr. Louis Lam Tsz Kwan	3557 6470	
Leighton	Contractor under Contract no. HY/2011/08	Project Manager	Paul Evans	2823 1111	21406799
Joint Venture		Site Agent	Colman Wong	9730 0806	
		Environmental Officer	Malcolm Leung	3973 0850	
		Environmental Supervisor	Christy So	3973 1065	
Ramboll Environ Hong Kong Limited	Independent Environmental Checker (IEC)	Independent Environmental Checker (IEC)	Mr. David Yeung	3465 2888	3465 2899
Lam Geotechnics Limited	Environmental Team (ET)	Environmental Team Leader (ETL)	Mr. Raymond Dai	2882 3939	2882 3331

2.4.3. In this reporting month, 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

- Drainage works
- Road works
- Landscaping works
- Modification and Construction of Sign Gantries / Traffic Signs
- Maintenance works

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

- Stage 4 backfilling works
- · Reinstatement of outfall
- · Road and Drain works

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

- Remedial works against water leakage and concrete defects
- Installation of precast concrete covers
- Middle and side wall construction
- Tunnel top slab construction
- Removal of Eastern Bulkhead Wall
- Waterproofing layer at tunnel top slab
- Removal of ELS S4
- Excavation work
- ELS S1 layer installation
- Pumping test
- Removal of remaining sheet piles and temporary seawall blocks
- Erection of hoarding for the demolition of ex-WSD Salt Water Pumping Station
   Demolition of ex-WSD salt water pumping station
- Backfilling works of HKE Cable connection works

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

 Remedial works inside tunnel structure at Mined Tunnel, TS4, TPCWAE and TPCWAW

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

- Construction of EVB
- Approach ramp sheet piling, pre-bored piling and top soil removal works
- Bridge construction and segment erection
- Hing Fat Street modification works
- Hing Fat Street Slip Road Bridge E L3 railing construction



- EVB waterproofing & back filling works
- Pier 22 to 28 Tie Beam construction

## <u>Contract no. HK/2012/08 – Wan Chai Development Phase II – Central- Wan Chai Bypass at Wan Chai West under FEP-09/364/2009B</u>

- Grouting
- Construction of MVB and CWB Tunnel
- Construction of concrete plug
- Excavation and lateral support installation for CWB tunnel

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

- Tree protection works next to existing BGO,
- Drainage improvement works,
- Excavation and Lateral Support for U-structure,
- · Grouting works,
- · Utility diversion works,
- Retaining wall works
- ELS works,
- Construction works for subway extension

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

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



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

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

- Drainage works
- Road works
- Landscaping works
- Modification and Construction of Sign Gantries / Traffic Signs
- Maintenance works

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

- Reinstatement of outfall
- Road and Drain works

<u>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</u>

- · Concreting of protective screeding on tunnel top slab
- Tunnel wall and top slab construction
- ELS S4 removal
- Waterproofing layer at tunnel top slab
- Tunnel backfilling
- General cleaning of OHVD & tunnel base slap, carrier drain and cross road duct.
- Bulkhead wall removal works
- Excavation work
- Strut installation
- Demolition of ex-WSD Salt Water Pumping Station

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

 Remedial works inside tunnel structure at Mined Tunnel, TS4, TPCWAE and TPCWAW

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

- Approach ramp sheet piling, pre-bored piling and top soil removal works
- Bridge construction
- Hing Fat Street modification works
- Hing Fat Street Slip Road Bridge E L3 railing construction
- EVB waterproofing & back filling works
- Pier 22 to 28 Tie Beam construction continues
- Oil Street drainage works
- Excavation / Construction of retaining wall



## <u>Contract no. HK/2012/08 – Wan Chai Development Phase II – Central- Wan Chai Bypass at Wan Chai West under FEP-09/364/2009/B</u>

- Grouting
- Construction of MVB and CWB Tunnel
- Construction of concrete plug
- Excavation and lateral support installation for CWB tunnel

## 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,
- Excavation and Lateral Support for U-structure,
- Grouting works,
- Utility diversion works,
- Retaining wall works
- ELS works,
- Construction works for subway extension

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

- Construction of Ventilation Buildings, inclusive of Administration Building, East Ventilation Shaft/Building, West Ventilation Building
- Construction of Tunnel Thermal Barrier
- 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 environmental protection pertinent to the Project

Permits and/or Licences	Reference No.	Issued Date	Status
Environmental Permit	EP-356/2009	30 Jul 2009	Valid
Environmental Permit	EP-364/2009	17 Aug 2009	Superseded
Environmental Permit	EP-364/2009/A	4 Aug 2010	Superseded
Environmental Permit	EP-364/2009/B	20 Sep 2012	Superseded
Environmental Permit	EP-364/2009/C	11 Jul 2014	Superseded
Environmental Permit	EP-364/2009/D	24 Nov 2015	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/A	25 Feb 2011	Superseded
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/B	2 May 2014	Valid

- 3.1.2. Due to the multi-contract nature of the Project, the status of permits and/or licences under the individual contract(s) are presented as below:
  - <u>Contract no. HY/2009/17 Central Wan Chai Bypass (CWB) at FEHD Whitfield Depot 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 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.
  - Contract no. HK/2010/06 Wan Chai Development Phase II Central Wan Chai Bypass 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. HK/2009/01 – Wan Chai Development Phase II – Central – Wan Chai Bypass at Hong Kong Convention and Exhibition Centre – Tunnel Works under FEP-02/364/2009</u>

3.1.6. 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/2009/01

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental	FEP-02/356/2009	24 Mar 2010	N/A	Valid
Permit	FEP-02/364/2009	21 Apr 2010	N/A	Valid
Notification of Works Under APCO	313088	06 Jan 2010	N/A	Valid
	GW-RS0152-16	18 Feb 2016	25 Feb 2016 to 24 Aug 2016	Cancelled
	GW-RS0243-16	11 Mar 2016	14 Mar 2016 to 13 Sep 2016	Cancelled
	GW-RS0384-16	19 Apr 2016	22 Apr 2016 to 19 Oct 2016	Valid
	GW-RS0435-16	03 May 2016	08 May 2016 to 07 Nov 2016	Valid
	GW-RS0482-16	17 May 2016	19 May 2016 to 18 Nov 2016	Valid
	GW-RS0486-16	17 May 2016	19 May 2016 to 18 Nov 2016	Valid
Construction Noise Permit (CNP) for non- pilling equipment	GW-RS0488-16	17 May 2016	19 May 2016 to 18 Nov 2016	Valid
	GW-RS0492-16	20 May 2016	23 May 2016 to 22 Nov 2016	Valid
	GW-RS0493-16	20 May 2016	23 May 2016 to 22 Nov 2016	Valid
	GW-RS0495-16	20 May 2016	19 May 2016 to 18 Nov 2016	Valid
	GW-RS0546-16	27 May 2016	30 May 2016 to 26 Nov 2016	Cancelled
	GW-RS0592-16	13 Jun 2016	15 Jun 2016 to 12 Dec 2016	Valid
	GW-RS0636-16	20 Jun 2016	21 Jun 2016 to 19 Dec 2016	Valid

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
	GW-RS0822-16	28 Jul 2016	7 Aug 2016 to 31 Jan 2017	Valid
	WT00009641- 2011	24 Jul 2011	31 Jul 2016	Expired
Discharge License	WT00024952- 2016	06 Jul 2016	31 Jul 2021	Valid
	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

· · · · · · · · · · · · · · · · · · ·			
<b>EP Condition</b>	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.4)	8 July 2015	

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

3.1.7. 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

Permits and/or Licences	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-RS0083-16	01 Feb 2016	3 Feb 2016 to 01 Aug 2016	Cancelled
	GW-RS0390-16	22 Apr 2016	27 Apr 2016 to 26 Oct 2016	Valid
	GW-RS0399-16	27 Apr 2016	27 Apr 2016 to 26 Oct 2016	Valid
Construction Noise Permit (CNP) for non- pilling equipment	GW-RS0403-16	27 Apr 2016	30 Apr 2016 to 24 Sep 2016	Valid
	GW-RS0516-16	20 May 2016	23 May 2016 to 22 Nov 2016	Cancelled
	GW-RS0593-16	13 Jun 2016	15 Jun 2016 to 12 Dec 2016	Valid
	GW-RS0803-16	28 Jul 2016	30 Jul 2016 to 27 Jan 2017	Valid
Water Discharge	WT00009691-2011	01 Aug 2011	31 July 2016	Expired
License	WT00022295-2015	12 Aug 2015	31 July 2020	Valid
Billing Account under Waste Disposal Ordinance (Land)	7010255	10 Feb 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



Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Dumping Permit (Type 1 – Open Sea Disposal)	EP/MD/17-041	23 Jun 2017	01 Jul 2016 to 31 Dec 2016	Valid

Table 3.5 Summary of submission status under FEP-01/364/2009

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>

3.1.8. 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	Permit issued	Valid
Notification of Works Under APCO	322293	07 Oct 2010	Notified	Valid
	GW-RS0335-16	07 Apr 2016	08 Apr 2016 to 30 Sep 2016	Cancelled
	GW-RS0438-16	03 May 2016	05 May 2016 to 30 Sep 2016	Cancelled
	GW-RS0459-16	09 May 2016	11 May 2016 to 31 Aug 2016	Valid
	GW-RS0564-16	06 Jun 2016	08 Jun 2016 to 31 Oct 2016	Cancelled
Construction Noise	GW-RS0577-16	06 Jun 2016	08 Jun 2016 to 31 Oct 2016	Cancelled
Permit (CNP) for non- piling equipment	GW-RS0669-16	24 Jun 2016	01 Jul 2016 to 31 Dec 2016	Valid
	GW-RS0700-16	04 Jul 2016	06 Jul 2016 to 31 Oct 2016	Valid
	GW-RS0705-16	04 Jul 2016	06 Jul 2016 to 31 Oct 2016	Valid
	GW-RS0762-16	14 Jul 2016	16 Jul 2016 to 31 Oct 2016	Valid
	GW-RS0847-16	15 Aug 2016	17 Aug 2016 to 30 Nov 2016	Valid
	GW-RS0874-16	23 Aug 2016	25 Aug 2016 to 30 Nov 2016	Valid
	WT00013967-2012	17 Sep 2012	30 Sep 2017	Cancelled
Discharge Licenses	WT00014966-2013	08 Jan 2013	31 Jan 2018	Cancelled
Discharge Licenses	WT00020725-2015	14 Jan 2015	30 Jul 2017	Valid
	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	Registration completed



Permit / Licence / Notification / Approval	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Billing Account under Waste Disposal Ordinance (Land)	Account No.: 7011587	11 Oct 2010	Account approved	Valid

Table 3.7 Summary of submission status under FEP-05/364/2009/A

EP Condition	Submission	Date of Submission
Condition 2.9	Noise Management Plan	01 March 2011
Condition 2.10	Landscape Plan (Rev. 6)	19 May 2014

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

3.1.9. Summary of the current status on licences and/or permits on environmental protection pertinent and submission under FEP-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 Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental	FEP-06/364/2009/A	22 Nov 2010	N/A	Valid
Permit	FEP-04/356/2009	22 Nov 2010	N/A	Valid
Notification of Works Under APCO	321822	24 Sep 2010	N/A	Valid
	GW-RS0232-16	08 Mar 2016	9 Mar 2016 to 08 Sep 2016	Valid
Construction Noise	GW-RS0233-16	14 Mar 2016	14 Mar 2016 to 10 Sep 2016	Valid
Permit (CNP) for non- piling equipment	GW-RS0235-16	10 Mar 2016	12 Mar 2016 to 08 Sep 2016	Valid
	GW-RS0553-16	30 May 2016	30 May 2016 to 24 Nov 2016	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



Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Billing Account under Waste Disposal Ordinance (Disposal by Vessel)	7011761	13 Jul 2016	17 Jul 2016 to 31 Dec 2017	Valid
Water Discharge Licence (Discharge at TPCWAW)	WT00020601-2014	18 Mar 2015	18 Mar 2015 to 31 Mar 2017	Valid
Water Discharge Licence (Discharge at TPCWAE)	WT00024951-2016	8 Jul 2016	8 Jul 2016 to 31 Dec 2017	Valid
Water Discharge Licence( 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	Submission	Date of Submission
	Management Organization of Main Construction Companies	11 Mar 2011
Condition 2.6	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.3)	30 Jan 2015



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

3.1.10. 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

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental	FEP-07/364/2009/A	25 Feb 2011	N/A	Superseded
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-RS0197-16	02 Mar 2016	02 Mar 2016 to 01 Sep 2016	Cancelled
	GW-RS0330-16	05 Apr 2016	05 Apr 2016 to 04 Oct 2016	Cancelled
Construction Noise Permits (CNP) for non-	GW-RS0506-16	20 May 2016	23 May 2016 to 18 Nov 2016	Valid
piling equipment	GW-RS0551-16	01 Jun 2016	18 Jun 2016 to 17 Dec 2016	Valid
	GW-RS0614-16	16 Jun 2016	16 Jun 2016 to 15 Dec 2016	Cancelled
	GW-RS0851-16	09 Aug 2016	09 Aug 2016 to 08 Feb 2017	Valid
Water Discharge	WT00010093-2011	17 Aug 2012	30 Sep 2016	Valid
License	WT00010865-2011	03 Nov 2011	30 Nov 2016	Cancelled

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.4)	22 March 2016
Condition 2.9	Noise Management Plan (Rev.4)	15 February 2016



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

3.1.11. The current status on licences and/or permits on environmental protection pertinent and submission under FEP-09/364/2009/B for contract no. HK/2012/08 showed in *Table 3.12 and Table 3.13*.

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

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Furthern State of the Control of the Contro	FEP-09/364/2009/B	5 March 2013	N/A	Valid
Further Environmental Permit	FEP-06/356/2009	5 March 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	8 Mar 2013	N/A	Valid
Billing Account under Waste Disposal Ordinance	7016883	18 Feb 2013	18 Jul 2017	Valid
	GW-RS0079-16	1 Feb 2016	03 Feb 2016 to 02 Aug 2016	Expired
	GW-RS0212-16	8 Mar 2016	10 Mar 2016 to 08 Sep 2016	Cancelled
	GW-RS0386-16	20 Apr 2016	22 Apr 2016 to 19 Oct 2016	Cancelled
Construction Noise Permit (CNP) for non-piling equipment	GW-RS0583-16	10 Jun 2016	11 Jun 2016 to 09 Dec 2016	Valid
	GW-RS00739-16	12 Jul 2016	14 Jul 2016 to 12 Jan 2017	Valid
	GW-RS0902-16	24 Aug 2016	26 Aug 2016 to 25 Feb 2017	Valid
	GW-RS0749-16	12 Jul 2016	14 Jul 2016 to 12 Jan 2017	Cancelled
	WT00018223-2014	28 Jan 2014	31 Jan 2019	Cancelled
Water Discharge Licence	WT00020594-2014	22 Dec 2014	31 Jan 2019	Valid

Table 3.13 Summary of submission status under FEP-09/364/2009/B

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



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

3.1.12. 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 Summary of Valid Licences and Permits under Contract no. HY/2010/08

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
F # F : (15 );	FEP-10/364/2009/B	26 Jul 2013	NA	Valid
Further Environmental Permit	FEP-07/356/2009	26 Jul 2013	NA	Valid
Notification of Works Under APCO	357176	2013-04-02	NIL	Valid
Registration as a Chemical Waste Producer	WPN5213-147- C1169-44	2013-03-27	NIL	Valid
Billing Account under Waste Disposal Ordinance	7017170	2013-03-27	NIL	Valid
Water Discharge License	WT0001651-2013	2013-07-09	2018-07-28	Cancelled
Water Discharge License	WT00020468-2014	2014-12-03	2018-07-31	Valid
	GW-RW0061-16	02 Feb 2016	02 Feb 2016 to 31 Jul 2016	Cancelled
	GW-RS0264-16	18 Mar 2016	18 Mar 2016 to 17 Sep 2016	Valid
	GW-RS0357-16	22 Apr 2016	22 Apr 2016 to 21 Oct 2016	Valid
	GW-RS0362-16	22 Apr 2016	22 Apr 2016 to 21 Oct 2016	Cancelled
Construction Noise Permit (CNP)	GW-RS0407-16	20 Apr 2016	20 Apr 2016 to 19 Oct 2016	Valid
for non-piling equipment	GW-RS0434-16	05 May 2016	24 May 2016 to 23 Nov 2016	Valid
	GW-RS0442-16	06 May 2016	16 May 2016 to 15 Nov 2016	Valid
	GW-RS0531-16	06 Jun 2016	06 Jun 2016 to 05 Dec 2016	Valid
	GW-RW0240-16	04 May 2016	04 May 2016 to 28 Oct 2016	Valid
	GW-RS0533-16	26 May 2016	26 May 2016 to 23 Nov 2016	Valid

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
	GW-RS0779-16	14 Jul 2016	14 Jul 2016 to 13 Jan 2017	Valid
	GW-RS0838-16	03 Aug 2016	03 Aug 2016 to 31 Aug 2016	Cancelled
	GW-RS0869-16	20 Aug 2016	20 Aug 2016 to 30 Dec 2016	Valid
	GW-RS0888-16	23 Aug 2016	02 Sep 20156 to 28 Feb 2017	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

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

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

Table 3.16 Cumulative Summary of Valid Licences and Permits under Contract no. HY/2011/08

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental Permit	FEP-11/364/2009/B	2 May 2014	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 Waste Producer	5213-151-L2837-02	09 Oct 2015	N/A	Registered
	5213-134-L2898-01	16 Nov 2015	N/A	Registered
Billing Account under Waste Disposal Ordinance	7019640	27 Mar 2014	N/A	Valid
	GW-RS0147-16	17 Feb 2016	19 Feb 2016 to 31 Jul 2016	Expired



Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
	GW-RS0159-16	17 Feb 2016	18 Feb 2016 to 31 Jul 2016	Expired
	GW-RS0222-16	8 Mar 2016	9 Mar 2016 to 31 Aug 2016	Valid
Construction Noise Permit (CNP) for non-piling equipment	GW-RS0284-16	23 Mar 2016	24 Mar 2016 to 31 Aug 2016	Valid
	GW-RS0419-16	29 Apr 2016	1 May 2016 to 31 Oct 2016	Valid
	GW-RS0520-16	24 May 2016	01 Jun 2016 to 30 Nov 2016	Valid
	GW-RS0538-16	24 May 2016	01 Jun 2016 to 30 Nov 2016	Valid
	GW-RS0626-16	22 Jun 2016	1 Jul 2016 to 31 Dec 2016	Valid
	GW-RS0645-16	22 Jun 2016	1 Jul 2016 to 31 Dec 2016	Valid
	GW-RS0801-16	29 Jul 2016	1 Aug 2016 to 31 Jan 2017	Valid
	GW-RS0811-16	28 Jul 2016	1 Aug 2016 to 31 Jan 2017	Valid
	GW-RS0891-16	25 Aug 2016	1 Sep 2016 to 28 Feb 2017	Valid
	GW-RS0892-16	25 Aug 2016	1 Sep 2016 to 28 Feb 2017	Valid
	WT00020242-2014	04 Nov 2014	30 Nov 2019	Valid
Water Discharge Licence	WT00020246-2015	15 Jul 2015	31 Jul 2019	Valid
	WT00022753-2015	3 May 2016	30 Apr 2021	Valid
	WT00024561-2016	30 May 2016	31 May 2021	Valid

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

EP Condition	Submission Date of Submiss	
Condition 2.9	Noise Management Plan (Rev.2)	27 Jan 2015
Condition 2.14	Landscape Plan (Rev.2)	18 Feb 2015
Condition 2.13	Operational Air Quality Management Plan for West Ventilation Building (Rev.0)	25 Nov 2014
Condition 2.13	Operational Air Quality Management Plan for East Ventilation Building and East Vent Shaft (Rev.0)	

### MONITORING REQUIREMENTS

#### 4.1 **Noise Monitoring**

### **NOISE MONITORING STATIONS**

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

Table 4.1 Noise Monitoring Stations

Station	Description	
M1a	Harbour Road Sports Centre	
M2b	Noon-day Gun Area	
МЗа	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	

<sup>\*</sup> Remark 1: Location ID has been updated from M7 to M8 for City Hall

### **REAL TIME NOISE MONITORING STATIONS**

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

Table 4.2 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

<sup>\*</sup> Remark 2: M7e has become a reference station starting from 7 Aug 2012



#### 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 ™ 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 4.3 Air Quality Monitoring Stations

Station ID	Monitoring Location	Description
CMA1b	Oil Street Site Office**	North Point (Recommenced 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

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

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

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

### AIR 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.



#### 5.0 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 <u>Figure 2.1</u> and <u>Figure 4.1</u>. The monitoring results are presented in according to the Individual Contract(s).
- 5.0.2. In the reporting month, the concurrent contracts are as follows:
  - Contract no. 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 month 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.

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

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:

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

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

<sup>\*</sup> 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 month.
- 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 <a href="#">Appendix</a>
  5.2.

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

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

Station	Description	
M1a	Harbour Road Sports Centre	

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



5.1.7 Noise monitoring results measured in this reporting period are reviewed and summarized.

Details of noise monitoring results and graphical presentation can be referred in *Appendix*5.2.

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

5.1.8 The commencement of construction works for Contract no. HY/2009/15 under FEP-06/364/2009/A was on 13 July 2011. Noise monitoring was commenced on 13 July 2011. The proposed divisions of noise monitoring stations are summarized in *Table 5.3* below.

Table 5.3 Noise Monitoring Stations for Contract no. HY/2009/15

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

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

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

5.1.11 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.

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

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

- 5.1.12 No action or limit level exceedance was recorded in this reporting month.
- 5.1.13 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 Section) under FEP-09/364/2009/B</u>

5.1.14 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	
МЗа	Tung Lo Wan Fire Station	

- 5.1.15 No action or limit level exceedance was recorded in this reporting month.
- 5.1.16 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>Contract no. HY/2011/08 – Central - Wan Chai Bypass (CWB) – Tunnel Buildings, Systems and Fittings, and Works Associated with Tunnel Commissioning</u>

5.1.17 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/2011/08 are summarized in *Table 5.6* below:

Table 5.6 Noise Monitoring Stations for Contract no. HY/2011/08

Station	Description
M4b	Victoria Centre
*M7e	International Finance Centre (Eastern End of Podium)
M7w	International Finance Centre (Western End of Podium)
M8	City Hall

<sup>\*</sup> Remark: M7e has become a reference station starting from 7 Aug 2012

- 5.1.18 No action or limit level exceedance was recorded in this reporting month.
- 5.1.19 Noise monitoring results measured in this reporting period are reviewed and summarized. Details of noise monitoring results and graphical presentation can be referred in <u>Appendix</u> <u>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.
  - <u>Contract no. HY/2009/19 Central Wanchai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link under FEP-07/364/2009/D</u>
- 5.2.5. 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.

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

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

<sup>\*</sup> 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.

5.2.6. Limit level exceedance was recorded at RTN1-FEHD Hong Kong Transport Section Whitfield Depot was recorded on 09 August 2016 during daytime in the reporting month. After checking with Contractor of HY/2009/19, no construction activities was conducted during the recorded period while adverse weather with frequent thunderstorm was observed and recorded across other monitoring stations at Tin Hau and North Point District and is considered as the major noise contribution. As such, the exceedance was considered not related to Project.



- 5.2.7. Limit level exceedances were recorded at RTN2a-Electric Centre on 09 and 10 August 2016 during daytime in the reporting month. After checking with Contractor of HY/2009/19, no construction activity was conducted on 09 August 2016 during the recorded period and unloading of soil at temporary jetty was conducted on 10 August 2016 during the recorded period. Adverse weather with frequent thunderstorm were recorded at the monitoring period on 09 and 10 August 2016 across monitoring stations at North Point District and is considered as the major noise contribution. As such, the exceedance was considered as non-Project related.
- 5.2.8. Limit level exceedance was recorded at RTN3-Yue Lee Mo Fan Memorial School on 09, 10 and 17 August 2016 during daytime in the reporting month. After checking, no construction works was conducted by Contract HY/2009/19 on 09, 10 and 17 August 2016 around the concerned location during the monitoring period while adverse weather with frequent thunderstorm was recorded at the monitoring period on 09 and 10 August 2016 across monitoring stations at Eastern District and is considered as the major noise contribution. As such, the exceedance was considered as non-Project related. On 17 August 2016, erection of U-beam with launching girder and crane was conducted by HY/2009/19 on 17 August 2016 and no major noise is considered. As such, the exceedance was considered as non-Project related.
- 5.2.9. Limit level exceedances were recorded at RTN4-Causeway Bay Community Centre on 04, 09, 11, 12, 13 and 17 August 2016 during daytime in the reporting month. After checking with the Contractor of HY/2009/19, excavation works and rebar fixing were conducted by Contract HY/2009/19 on 04 August 2016 around the monitoring location during the recorded period and no major noise is considered. In addition, construction activities and intermittent operation of PMEs including excavator, hydraulic breaker and sheet piling rig were observed at non-CWB Project adjacent to monitoring station was observed in August 2016. As such, the exceedances were considered as non-Project related.

On 09 August 2016, excavation and concreting works was conducted under Contract HY/2009/19 around the monitoring location during the recorded periods and no major noise is considered for the works. In addition, construction activities and intermittent operation of PMEs including excavator, hydraulic breaker and sheet piling machine were observed at non-CWB Project adjacent to monitoring station over August 2016. As such, the exceedances were considered as non-Project related.

On 11 August 2016 and 12 August 2016 morning, hand held drilling works at IEC bridge deck (Pier 24) were conducted under HY/2009/19 and hand held breaking works beneath IEC Bridge deck was conducted during the recorded period. No noise mitigation measure was provided for the drilling works at IEC bridge deck on 12 August 2016 morning and was observed as the direct noise contribution. Hence, the exceedances on 11 and 12 August 2016 were considered as related to the Project works.

On 12 August 2016 afternoon, breaking works beneath the IEC bridge deck and concurrent excavator mounted breaking works at Pier 23 were observed. Despite the provision of temporary noise barrier for the ground breaking works by excavator mounted hydraulic



breaker and the hand held breaking works was observed conducted behind physical barrier, exceedances were recorded and direct noise contribution was observed in relation to the concurrent operation of hand held breaker and excavator mounted hydraulic breakers opposite to the monitoring station and considered as related to the Project works.

The ET informed the findings to Contractor of HY/2009/19 and advised the Contractor of HY/2009/19 to review the construction sequence to propose and implement appropriate remedial actions. Rectification measure including provision of acoustic noise screen for bridge deck drilling works was provided by the Contractor of HY/2009/19 on 12 August 2016 and the Contractor of HY/2009/19 reviewed the construction sequence and committed to isolate concurrent bridge deck drilling or hand held breaking for construction joint underneath IEC bridge deck or excavator mounted breaking works to avoid cumulative impact due to concurrent operations. Further checking by the ET was conducted on 14 August 2016, drilling works with acoustic noise screen was observed on IEC bridge deck while no concurrent breaking works and drilling works was further observed on 14 August 2016 and no further project related exceedance was recorded.

On 13 August 2016, only excavation works was conducted by Contract HY/2009/19 around the monitoring location during the recorded period and no major noise is considered. In addition, construction activities and intermittent operation of PMEs including excavator, hydraulic breaker and sheet piling rig were observed at non-CWB Project adjacent to monitoring station was observed in August 2016. As such, the exceedances were considered as non-Project related.

On 17 August 2016, drilling works for tie beam beneath IEC was conducted by Contract HY/2009/19 immediately behind physical barrier erected around the works location. In addition, construction activities and intermittent operation of PMEs including excavator, hydraulic breaker and sheet piling rig were observed at non-CWB Project adjacent to monitoring station was observed in August 2016. As such, the exceedances were considered as non-Project related.

5.2.10. 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 *Appendix 5.4.* 



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

5.2.11. 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.

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

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	

<sup>\*</sup> 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.

- 5.2.12. Limit level exceedance was recorded at RTN1-FEHD Hong Kong Transport Section Whitfield Depot was recorded on 09 August 2016 during daytime in the reporting month. After checking with Contractor of HY/2011/08, no construction activities was conducted during the recorded period while adverse weather with frequent thunderstorm was observed and recorded across other monitoring stations at Tin Hau and North Point District and is considered as the major noise contribution. As such, the exceedance was considered not related to Project.
- 5.2.13. Limit level exceedances were recorded at RTN2a-Electric Centre on 09 and 10 August 2016 during daytime in the reporting month. After checking with Contractor of HY/2009/19, no construction activity was conducted on 09 August 2016 during the recorded period and unloading of soil at temporary jetty was conducted on 10 August 2016 during the recorded period. Adverse weather with frequent thunderstorm were recorded at the monitoring period on 09 and 10 August 2016 across monitoring stations at North Point District and is considered as the major noise contribution. As such, the exceedance was considered as non-Project related.
- 5.2.14. Limit level exceedances were recorded at RTN4-Causeway Bay Community Centre on 04, 09, 11, 12, 13 and 17 August 2016 during daytime in the reporting month. After checking with the Contractor of HY/2011/08, no construction activities was conducted around the monitoring location during the recorded period on 04, 09, 11, 12, 13 and 17 August 2016. In addition, construction activities and intermittent operation of PMEs including excavator, hydraulic breaker and sheet piling rig were observed at non-CWB Project adjacent to monitoring station was observed in August 2016. As such, the exceedances were considered as non-Project related.



### 5.3 Air Quality Monitoring Results

<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 month.
- 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*.

Contract no. HK/2009/01 – Wan Chai Development Phase II – Central – Wan Chai Bypass at 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 month.
- 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 *Appendix 5.3*.

<u>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</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
CMA4a	Society for the Prevention of Cruelty to Animals

- 5.3.8 No exceedance was recorded in the reporting month.
- 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/2009/15 - Central-Wanchai Bypass - Tunnel (Causeway Bay Typhoon Shelter Section) under FEP-06/364/2009/A</u>

5.3.10 The commencement of construction works for Contract no. HY/2009/15 under FEP-06/364/2009/A was on 13 July 2011. Air quality monitoring was commenced on 14 July 2011. The proposed division of air quality monitoring stations are summarized in *Table 5.12* below.

Table 5.12 Air Quality Monitoring Station for Contract no. HY/2009/15

Station	Description	
CMA3a	CWB PRE Site Office	

- 5.3.11 No exceedance was recorded in the reporting month.
- 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 *Appendix 5.3*.

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

5.3.13 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.

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

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

5.3.14 One 1hr TSP action limit level exceedance was recorded on 27 August 2016 in the reporting month.



- 5.3.15 No construction activities was undertaken by Contractor of HY/2009/19 around the Oil Street Site Office during the monitoring period and no particular observation regarding air quality impact was observed during sampling. Mitigation measures including watering for haul road was generally implemented by the Contractor. In view of the above, the action level exceedance was considered to be non-project related.
- 5.3.16 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.

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

5.3.17 The commencement of construction works for Contract no. HK/2012/08 under FEP-09/364/2009/C 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

- 5.3.18 No exceedance was recorded in the reporting month.
- 5.3.19 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 Section) under FEP-09/364/2009/B</u>

5.3.20 The commencement of construction works for Contract no. HY/2010/08 under FEP-09/364/2009/B 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
CMA3a	CWB PRE Site Office

5.3.21 No exceedance was recorded in the reporting month. 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 and Fittings, and Works Associated with Tunnel Commissioning</u>

5.3.22 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.

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

Station	Description
MA1e	International Finance Centre (Eastern End of Podium)
MA1w	International Finance Centre (Western End of Podium)
CMA1b	Oil Street Site Office
CMA2a	Causeway Bay Community Centre

- 5.3.23 One 1hr TSP action limit level exceedance was recorded on 27 August 2016 in the reporting month.
- 5.3.24 Only rebar fixing and formboard erection was undertaken under Contract HK/2011/08 around the Oil Street Site Office during the monitoring period and no particular observation regarding air quality impact was observed during sample. In view of the above, the action level exceedance was considered to be non-project related and contributed by local ambient condition.
- 5.3.25 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*.



## 5.4 Waste Monitoring Results

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

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

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

Waste Type	Quantity this month	Cumulative-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, <b>m</b> <sup>3</sup>	57.86	107849.59	TKO137, TM38
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> <sup>3</sup>	85.1	4903.76	SENT Landfill
Non-inert C&D materials recycled, <b>kg</b>	Nil	1284946	N/A
Chemical waste disposed, <b>kg</b>	Nil	10400	N/A
Marine Sediment (Type 1 – Open Sea Disposal) , m³	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



<u>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</u>

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

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

Waste Type	Quantity this month	Cumulative Quantity- to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, <b>m</b> <sup>3</sup>	3	501570.412	TKO137 / TM 38
Inert C&D materials recycled, <b>m</b> <sup>3</sup>	Nil	46520	N/A
Non-inert C&D materials disposed, m³	238	3613.317	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	31086	South Cheung Chau

<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 month. Details of the waste flow table are summarized in *Table 5.19*.

Table 5.19 Details of Waste Disposal for Contract no. HY/2009/18

Waste Type	Quantity this month	Cumulative-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, <b>m</b> <sup>3</sup>	134.48	140683.94	T.K.O. 137, TM 38
Inert C&D materials recycled, <b>m</b> <sup>3</sup>	Nil	58787.05	N/A
Non-inert C&D materials disposed, m³	21.98	4174.86	SENT Landfill
Non-inert C&D materials recycled, ton	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 Shelter Section) under FEP-06/364/2009/A</u>

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

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

Waste Type	Quantity this month	Cumulative Quantity-to- Date	Disposal / Dumping Grounds
Inert C&D materials	1944.4	621670.77	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 materials disposed, <b>m</b> <sup>3</sup>	78.29	4465.04	SENT 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), m³	Nil	5684	South of the Brothers



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

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

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

Waste Type*	Quantity this month	Cumulative-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, <b>ton</b>	6043.45	657494.74	N/A
Inert C&D materials recycled, <b>ton</b>	Nil	82349.7	N/A
Non-inert C&D materials disposed, <b>ton</b>	79.14	5048.28	SENT Landfill
Non-inert C&D materials recycled, <b>ton</b>	4.0	560.56	N/A
Chemical waste disposed, <b>kg</b>	Nil	9.92	N/A
Marine Sediment (Tunnel) (Type-1 Open Sea Disposal), <b>m</b> <sup>3</sup>	Nil	20556	South of Cheung Chau
Marine Sediment (Tunnel) (Type 1- Open Sea Disposal (Dedicated Sites) & Type 2 – Confined Marine Disposal), m³	Nil	30751	East of Sha Chau

<u>Contract no. HK/2012/08 Wan Chai Development Phase II - Central-Wan Chai Bypass at Wan Chai West under FEP-09/364/2009/B</u>

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

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

Waste Type*	Quantity this month	Cumulative-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, <b>m</b> <sup>3</sup>	6394	172438	TKO 137
Inert C&D materials recycled, <b>m</b> <sup>3</sup>	Nil	84466	N/A
Non-inert C&D materials disposed, <b>m</b> <sup>3</sup>	280	2277	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> <sup>3</sup>	Nil	3145	South of Cheung Chau / East of Sha Chau / South of The Brothers



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

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

Table 5.23 Details of Waste Disposal for Contract no. HY/2010/08

Waste Type*	Quantity this month	Cumulative-to-Date	Disposal / Dumping Grounds
	9109.7	567597.7	TM 38
Inert C&D materials	15884.4	262656.6	WENT
disposed, <b>m</b> <sup>3</sup>	Nil	82911.8	SENT
	131.4	71198.7	TKO area 137
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>	200.2	2301.06	SENT
Non-inert C&D materials recycled, <b>m</b> <sup>3</sup>	Nil	Nil	N/A
Chemical waste disposed, <b>kg</b>	Nil	979	N/A
Type 1 – Open Sea Disposal, <b>m</b> <sup>3</sup>	Nil	16368.4	East Sha Chau/ South Brothers Island
Type 2 – Confined Marine disposal, <b>m</b> <sup>3</sup>	Nil	549.2	East Sha Chau

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

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

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

Waste Type*	Quantity this month	Cumulative-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, <b>m</b> <sup>3</sup>	Nil	367.68	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>	60.7	847.57	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

#### 6.0 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 month.

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

6.1.2. No exceedance was recorded in the reporting month.

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

6.1.3. No exceedance was recorded in the reporting month.

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

6.1.4. No exceedance was recorded in the reporting month.

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

6.1.5. No exceedance was recorded in the reporting month.

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

6.1.6. No exceedance was recorded in the reporting month.

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

6.1.7. No exceedance was recorded in the reporting month.



# **Real Time Noise Monitoring**

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

- 6.1.8. Limit level exceedance was recorded at RTN1-FEHD Hong Kong Transport Section Whitfield Depot was recorded on 09 August 2016 during daytime in the reporting month. After checking with Contractor of HY/2009/19, no construction activities was conducted during the recorded period while adverse weather with frequent thunderstorm was observed and recorded across other monitoring stations at Tin Hau and North Point District and is considered as the major noise contribution. As such, the exceedance was considered not related to Project.
- 6.1.9. Limit level exceedances were recorded at RTN2a-Electric Centre on 09 and 10 August 2016 during daytime in the reporting month. After checking with Contractor of HY/2009/19, no construction activity was conducted on 09 August 2016 during the recorded period and unloading of soil at temporary jetty was conducted on 10 August 2016 during the recorded period. Adverse weather with frequent thunderstorm were recorded at the monitoring period on 09 and 10 August 2016 across monitoring stations at North Point District and is considered as the major noise contribution. As such, the exceedance was considered as non-Project related.
- 6.1.10. Limit level exceedance was recorded at RTN3-Yue Lee Mo Fan Memorial School on 09, 10 and 17 August 2016 during daytime in the reporting month. After checking, no construction works was conducted by Contract HY/2009/19 on 09, 10 and 17 August 2016 around the concerned location during the monitoring period while adverse weather with frequent thunderstorm was recorded at the monitoring period on 09 and 10 August 2016 across monitoring stations at Eastern District and is considered as the major noise contribution. As such, the exceedance was considered as non-Project related. On 17 August 2016, erection of U-beam with launching girder and crane was conducted by HY/2009/19 on 17 August 2016 and no major noise is considered. As such, the exceedance was considered as non-Project related.
- 6.1.11. Limit level exceedances were recorded at RTN4-Causeway Bay Community Centre on 04, 09, 11, 12, 13 and 17 August 2016 during daytime in the reporting month. After checking with the Contractor of HY/2009/19, excavation works and rebar fixing were conducted by Contract HY/2009/19 on 04 August 2016 around the monitoring location during the recorded period and no major noise is considered. In addition, construction activities and intermittent operation of PMEs including excavator, hydraulic breaker and sheet piling rig were observed at non-CWB Project adjacent to monitoring station was observed in August 2016. As such, the exceedances were considered as non-Project related.

On 09 August 2016, excavation and concreting works was conducted under Contract HY/2009/19 around the monitoring location during the recorded periods and no major noise is considered for the works. In addition, construction activities and intermittent operation of PMEs including excavator, hydraulic breaker and sheet piling machine were observed at non-CWB Project adjacent to monitoring station over August 2016. As such, the exceedances were considered as non-Project related.



On 11 August 2016 and 12 August 2016 morning, hand held drilling works at IEC bridge deck (Pier 24) were conducted under HY/2009/19 and hand held breaking works beneath IEC Bridge deck was conducted during the recorded period. No noise mitigation measure was provided for the drilling works at IEC bridge deck on 12 August 2016 morning and was observed as the direct noise contribution. Hence, the exceedances on 11 and 12 August 2016 were considered as related to the Project works.

On 12 August 2016 afternoon, breaking works beneath the IEC bridge deck and concurrent excavator mounted breaking works at Pier 23 were observed. Despite the provision of temporary noise barrier for the ground breaking works by excavator mounted hydraulic breaker and the hand held breaking works was observed conducted behind physical barrier, exceedances were recorded and direct noise contribution was observed in relation to the concurrent operation of hand held breaker and excavator mounted hydraulic breakers opposite to the monitoring station and considered as related to the Project works.

The ET informed the findings to Contractor of HY/2009/19 and advised the Contractor of HY/2009/19 to review the construction sequence to propose and implement appropriate remedial actions. Rectification measure including provision of acoustic noise screen for bridge deck drilling works was provided by the Contractor of HY/2009/19 on 12 August 2016 and the Contractor of HY/2009/19 reviewed the construction sequence and committed to isolate concurrent bridge deck drilling or hand held breaking for construction joint underneath IEC bridge deck or excavator mounted breaking works to avoid cumulative impact due to concurrent operations. Further checking by the ET was conducted on 14 August 2016, drilling works with acoustic noise screen was observed on IEC bridge deck while no concurrent breaking works and drilling works was further observed on 14 August 2016 and no further project related exceedance was recorded.

On 13 August 2016, only excavation works was conducted by Contract HY/2009/19 around the monitoring location during the recorded period and no major noise is considered. In addition, construction activities and intermittent operation of PMEs including excavator, hydraulic breaker and sheet piling rig were observed at non-CWB Project adjacent to monitoring station was observed in August 2016. As such, the exceedances were considered as non-Project related.

On 17 August 2016, drilling works for tie beam beneath IEC was conducted by Contract HY/2009/19 immediately behind physical barrier erected around the works location. In addition, construction activities and intermittent operation of PMEs including excavator, hydraulic breaker and sheet piling rig were observed at non-CWB Project adjacent to monitoring station was observed in August 2016. As such, the exceedances were considered as non-Project related.



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

- 6.1.12. Limit level exceedance was recorded at RTN1-FEHD Hong Kong Transport Section Whitfield Depot was recorded on 09 August 2016 during daytime in the reporting month. After checking with Contractor of HY/2011/08, no construction activities was conducted during the recorded period while adverse weather with frequent thunderstorm was observed and recorded across other monitoring stations at Tin Hau and North Point District and is considered as the major noise contribution. As such, the exceedance was considered not related to Project.
- 6.1.13. Limit level exceedances were recorded at RTN2a-Electric Centre on 09 and 10 August 2016 during daytime in the reporting month. After checking with Contractor of HY/2009/19, no construction activity was conducted on 09 August 2016 during the recorded period and unloading of soil at temporary jetty was conducted on 10 August 2016 during the recorded period. Adverse weather with frequent thunderstorm were recorded at the monitoring period on 09 and 10 August 2016 across monitoring stations at North Point District and is considered as the major noise contribution. As such, the exceedance was considered as non-Project related.
- 6.1.14. Limit level exceedances were recorded at RTN4-Causeway Bay Community Centre on 04, 09, 11, 12, 13 and 17 August 2016 during daytime in the reporting month. After checking with the Contractor of HY/2011/08, no construction activities was conducted around the monitoring location during the recorded period on 04, 09, 11, 12, 13 and 17 August 2016. In addition, construction activities and intermittent operation of PMEs including excavator, hydraulic breaker and sheet piling rig were observed at non-CWB Project adjacent to monitoring station was observed in August 2016. As such, the exceedances were considered as non-Project related.

### 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 month.

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

6.2.2. No exceedance was recorded in the reporting month.

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

6.2.3. No exceedance was recorded in the reporting month.

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

6.2.4. No exceedance was recorded in the reporting month.



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

- 6.2.5. One 1hr TSP action limit level exceedance was recorded on 27 August 2016 in the reporting month.
- 6.2.6. No construction activities was undertaken by Contractor of HY/2009/19 around the Oil Street Site Office during the monitoring period and no particular observation regarding air quality impact was observed during sampling. Mitigation measures including watering for haul road was generally implemented by the Contractor. In view of the above, the action level exceedance was considered to be non-project related.

Contract no. HK/2012/08 Wan Chai Development Phase II - Central-Wan Chai Bypass at Wan Chai West under FEP-09/364/2009/B

6.2.7. No exceedance was recorded in the reporting month.

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

6.2.8. No exceedance was recorded in the reporting month.

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

- 6.2.9. One 1hr TSP action limit level exceedance was recorded on 27 August 2016 in the reporting month.
- 6.2.10. Only rebar fixing and formboard erection was undertaken under Contract HK/2011/08 around the Oil Street Site Office during the monitoring period and no particular observation regarding air quality impact was observed during sample. In view of the above, the action level exceedance was considered to be non-project related and contributed by local ambient condition.
- 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 and monitoring 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 There was no particular action taken since no non-compliance was recorded from the site audits and monitoring in the reporting period.



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

- 7.0.1. According to Condition 3.4 of the EP-364/2009/D, 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 month.
- 7.0.3. According to the construction programme of Central-Wanchai Bypass at Wanchai West at the Central Reclamation Phase III area include structural works for tunnel construction, road works and drainage works, and seawall modification were performed in August 2016 reporting month. As no project related exceedance were recorded during the reporting period, cumulative construction impact due to the concurrent activities of the current projects with the Central Reclamation Phase III (CRIII) was considered as insignificant.
- 7.0.4. According to the construction programme of Wan Chai Development Phase II, Central-Wan Chai Bypass and Island Eastern Corridor Link projects, the major construction activities under Wan Chai Development Phase II were tunnel works at Wan Chai East and back filling works, culvert reinstatement and road and drain works at Wan Chai West. The major construction activities under Central-Wan Chai Bypass and Island Eastern Corridor Link Projects were road works and ventilation building construction at Central Interchange, temporary reclamation removal works at Ex-PCWAW, ELS works and retaining wall construction at Victoria Park, ELS works and tunnel works at TS3; bridge construction, piling and tunnel works at North Point area in the reporting month. In addition, other non-Wan Chai Development Phase II, Central-Wan Chai Bypass and Island Eastern Corridor Link projects was observed undertaken at Wan Chai North and North Point area.
- 7.0.5. No significant air quality impact from construction activities was anticipated in the reporting month. Besides, no project related exceedance was recorded during the air quality and noise environmental monitoring events in the reporting month. Thus, it is evaluated that the cumulative construction impact from the concurrent projects including Central Reclamation Phase III (CRIII), Wan Chai Development Phase II (WDII), Central-WanChai Bypass (CWB), Island Eastern Corridor Link projects (IECL) was insignificant.



### 8.0 ENVIROMENTAL SITE AUDIT

- 8.0.1. During this reporting month, weekly environmental site audits were conducted for Contracts no. HY/2009/15, 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. No non-conformance was identified during the site inspections.
- 8.0.2. Site inspections for Contract no. HY/2009/15 were carried out during this reporting period. The results of these inspections and outcomes are summarized in *Table 8.1*.

Table 8.1 Summary of Environmental Inspections for Contract no. HY/2009/15

Item	Date	Observations	Action taken by Contractor	Completion date
160809_1	9 Aug 2016	Impermeable barrier shall be provided according to method statement to avoid potential impact related to surface runoff at temporary cut slope (EX-PCWA)  Impermeable barrier shall impermeable barrier was provided	barrier was	Completion as observed on 16 August 2016
160809_2	9 Aug 2016	Drip tray shall be provided to chemical containers and leaked oil shall be cleared as chemical waste (EX-PCWA)	The chemical waste	Completion as observed on 23 August 2016
160816_1	16 Aug 2016	Damaged impermeable barrier deployed around underwater excavation area shall be repaired to avoid potential muddy dispersion and ensue the impermeable barrier and silt curtain fully extended to seabed (EX-PCWA)	The condition of the impermeable barrier and silt curtain deployed was improved. No further muddy seepage was observed	Completion as observed on 23 August 2016

8.0.3. Site inspections for Contract no. HY/2009/18 were carried out during this reporting period. The results of these inspections and outcomes are summarized in *Table 8.2*.

Table 8.2 Summary of Environmental Inspections for Contract no. HY/2009/18

Item	Date	Observations	Action taken by Contractor	Completion date
160818_1	18 Aug 2016	Protection shall be provided to drainage system to avoid contaminated surface runoff and cause contamination to nearby water	Protection was provided to drainage system	Completion as observed on 25 August 2016

Item	Date	Observations	Action taken by Contractor	Completion date
160818_2	18 Aug 2016	Covering shall be provide to stockpile and exposed surface to reduce the chance of surface runoff and avoid dust emission during hot and dry weather.	Covering was provided to stockpile stored on- site	Completion as observed on 25 August 2016

8.0.4. Site inspections for Contract no. HY/2009/19 were carried out during this reporting period. No observation was found in the reporting month. The results of these inspections and outcomes are summarized in *Table 8.3.* 

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

Item	Date	Observations	Action taken by Contractor	Completion date
160727_1	27 Jul 2016	Proper chemical container shall be provided to avoid leakage of chemical. The leaked chemical waste	Chemical container	Completion as observed on 3 August 2016
		(Pier35).		

- 8.0.5. Site inspections for Contract no. HK/2009/01 was carried out during this reporting period. No observation was found in the reporting month.
- 8.0.6. Site inspections for Contract no. HK/2009/02 were carried out during this reporting period. The results of these inspections and outcomes are summarized in *Table 8.5.*

Table 8.5 Summary of Environmental Inspections for Contract no. HK/2009/02

Item	Date	Observations	Action taken by Contractor	Completion date
160804_01	4 Aug 2016	Bunding shall be provided at Portion 3&4 to prevent potential surface runoff into nearby water body.	Bunding was provided at Portion 3&4.	Completion as observed on 11 August 2016
160804_02	4 Aug 2016	Floating refuse shall be removed at Portion 5.	Floating refuse was cleared at Portion 5.	Completion as observed on 11 August 2016
160816_01	16 Aug 2016	NRMM label shall be provided for generator in Portion 5.	NRMM label was provided for concerned generator in Portion 5.	Completion as observed on 25 August 2016
160825_01	25 Aug 2016	Hole of drip tray shall be covered on-site for proper function.	Hole of drip tray is covered.	Completion as observed on 1 September 2016



8.0.7. 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*.

Table 8.6 Summary of Environmental Inspections for Contract no. HK/2012/08

Item	Date	Observations	Action taken by Contractor	Completion date
160727_01	27 Jul 2016	Removal of silt & soft material at gate exit shall be implemented regularly to prevent muddy trail on public road.	Cleaning at gate exit was properly implemented that no silt of soft material was observed at gate exit.	Completion as observed on 3 August 2016
160803_01	3 Aug 2016	Muddy dispersion was observed at the north of Zone B. The bunding along the seafront shall be reinstated to avoid surface runoff into nearby water body especially during heavy rainfall.		Completion as observed on 16 August 2016
160816_01	16 Aug 2016	The hole of drip tray under oil containers and generator shall be covered at Zone B	The hole of drip tray under oil and containers generator was covered.	Completion as observed on 23 August 2016

8.0.8. Site inspections for Contract no. HY/2010/08 were carried out during this reporting period. The results of these inspections and outcomes are summarized in *Table 8.7* 

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

Item	Date	Observations	Action taken by Contractor	Completion date
160727_1	27 Jul 2016	PME without NRMM Label shall not be operated (TS3)	NRMM label was provided for concerned PME	Completion as observed on 3 August 2016
160803_1	3 Aug 2016	Drip tray shall be provided for chemical/oil containers (Victoria Park)	Drip tray was provided to oil container	Completion as observed on 12 August 2016
160803_2	3 Aug 2016	Muddy seepage between seawall was observed. Silt curtain shall be provided along the section of the seawall with seepage to avoid muddy diversion. (TS3 East)	No more muddy seepage was observed	Completion as observed on 12 August 2016

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

### 9.0 COMPLAINTS, NOTIFICATION OF SUMMONS AND PROSECUTION

- 9.0.1. No environmental complaint, notification of summons and prosecution was received in the reporting month.
- 9.0.2. The details of cumulative complaint log and updated summary of complaints are presented in *Appendix 9.1*
- 9.0.3. Cumulative statistic on complaints and successful prosecutions are summarized in *Table 9.1* and *Table 9.2* respectively.

Table 9.1 Cumulative Statistics on Complaints

Reporting Period	No. of Complaints
August 2016	0
September 2010 – July 2016	67
Total	67

Table 9.2 Cumulative Statistics on Successful Prosecutions

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

### 10 CONCLUSION

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

Contract No.	Key Construction Works	Recommended Mitigation Measures
HY/2009/15	Remedial works inside tunnel structure at Mined Tunnel, TS4, TPCWAE and TPCWAW	<ul> <li>Dust control during dust generating activities and covering for stockpile stored on site.</li> <li>Provide protection works and adequate drainage system to ensure no direct discharge into public drainage system or the nearby water.</li> <li>Maintain regular cleaning of floating refuses within construction area.</li> </ul>
HY/2009/18	<ul> <li>Drainage works</li> <li>Road works</li> <li>Landscaping works</li> <li>Modification and Construction of Sign Gantries / Traffic Signs</li> <li>Maintenance works</li> </ul>	<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 sheet piling, pre-bored piling and top soil removal works</li> <li>Bridge construction</li> <li>Hing Fat Street modification works</li> <li>Hing Fat Street Slip Road Bridge E L3 railing construction</li> <li>EVB waterproofing &amp; back filling works</li> <li>Pier 22 to 28 Tie Beam construction continues</li> <li>Oil Street drainage works</li> <li>Excavation / Construction of retaining wall</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 outfall     Road and Drain works	<ul> <li>Provide protection works and adequate drainage system to ensure no direct discharge into public drainage system or the sea.</li> <li>Dust control during dust generating works</li> <li>Noise mitigation measures during breaking works</li> </ul>
HK/2009/02	<ul> <li>Concreting of protective screeding on tunnel top slab</li> <li>Tunnel wall and top slab construction</li> <li>ELS S4 removal</li> <li>Waterproofing layer at tunnel top slab</li> <li>Tunnel backfilling</li> <li>General cleaning of OHVD &amp; tunnel base slap, carrier drain and cross road duct.</li> <li>Bulkhead wall removal works</li> <li>Excavation work</li> <li>Strut installation</li> <li>Demolition of ex-WSD Salt Water Pumping Station</li> </ul>	<ul> <li>Dust control during dust generating works</li> <li>Proper maintenance boundary surface runoff protection and water treatment facilities to avoid potential runoff related impact.</li> <li>Provision of protection measures to ensure no runoff out of site area or direct discharge into public drainage system.</li> </ul>

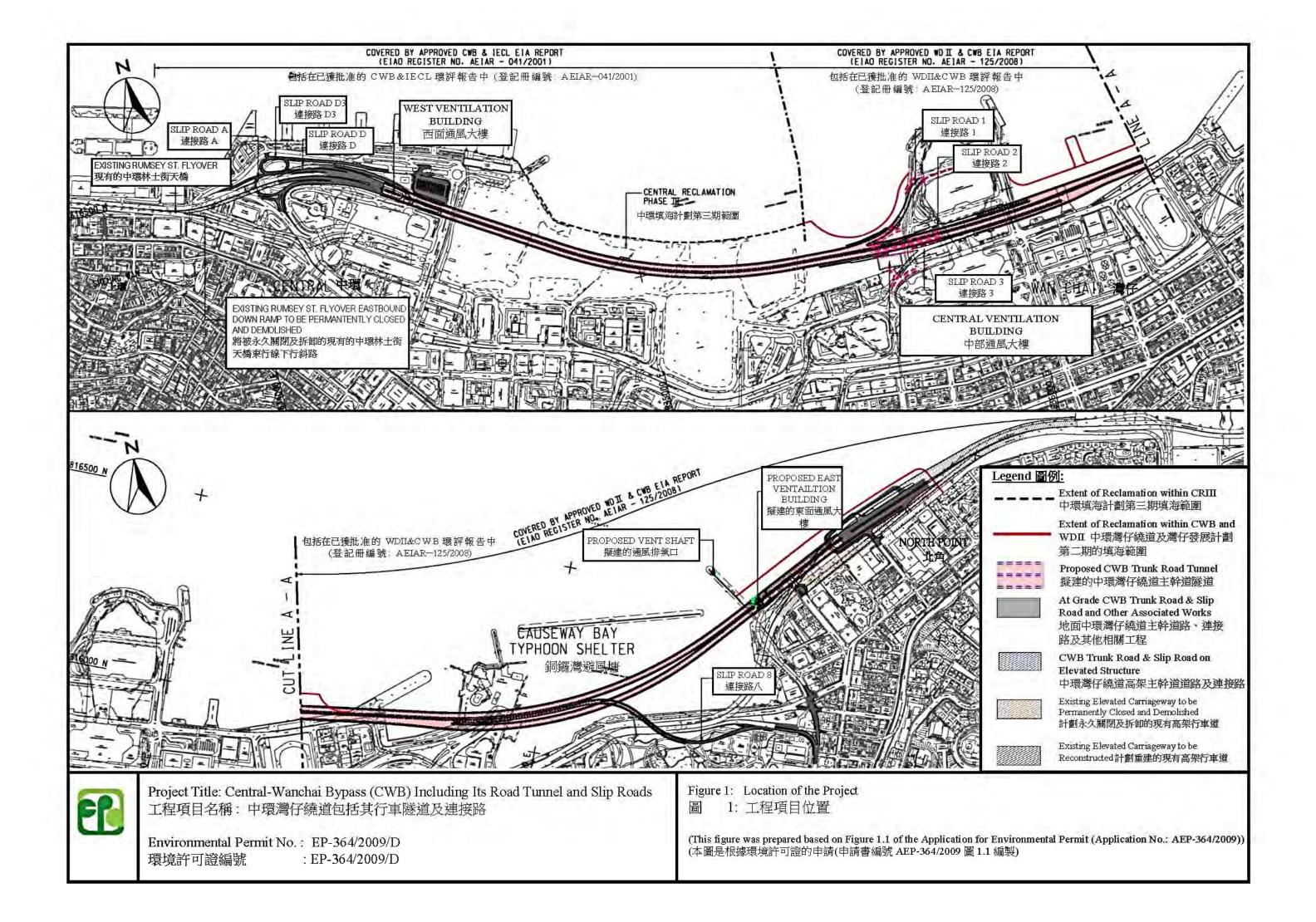


HK/2012/08	<ul> <li>Grouting</li> <li>Construction of MVB and CWB Tunnel</li> <li>Construction of concrete plug</li> <li>Excavation and lateral support installation for CWB tunnel</li> </ul>	<ul> <li>Dust control during dust generating works</li> <li>Provide protection works and adequate drainage system to ensure no direct discharge into public drainage system.</li> </ul>
HY/2010/08	<ul> <li>Tree protection works next to existing BGO,</li> <li>Drainage improvement works,</li> <li>Excavation and Lateral Support for U-structure,</li> <li>Grouting works,</li> <li>Utility diversion works,</li> <li>Retaining wall works</li> <li>ELS works,</li> <li>Construction works for subway extension</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, East         Ventilation Shaft/Building, West         Ventilation Building</li> <li>Construction of Tunnel Thermal         Barrier</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.

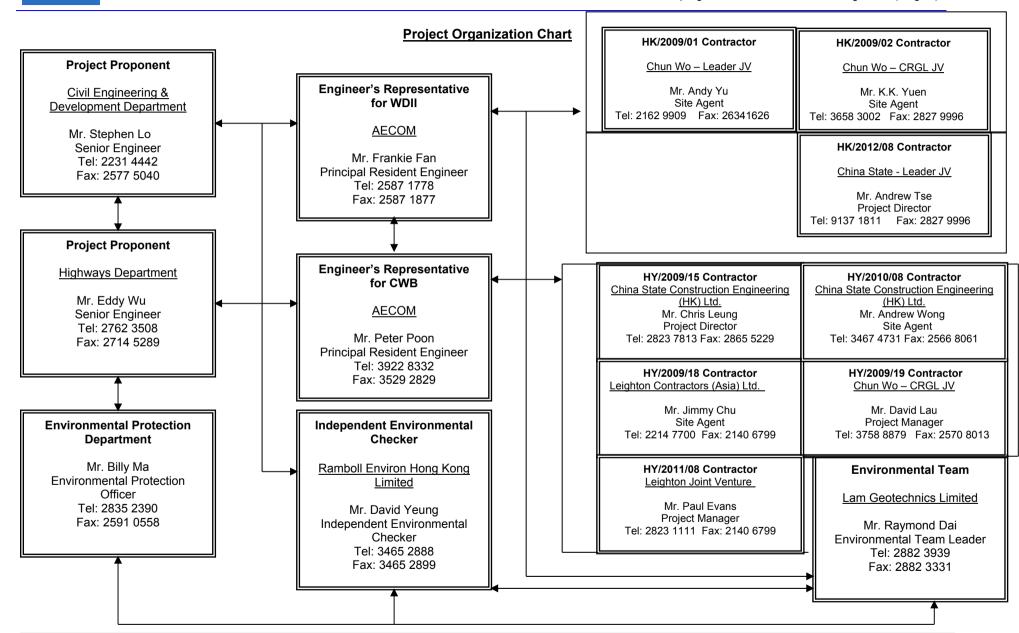
Figure 2.1

Project Layout



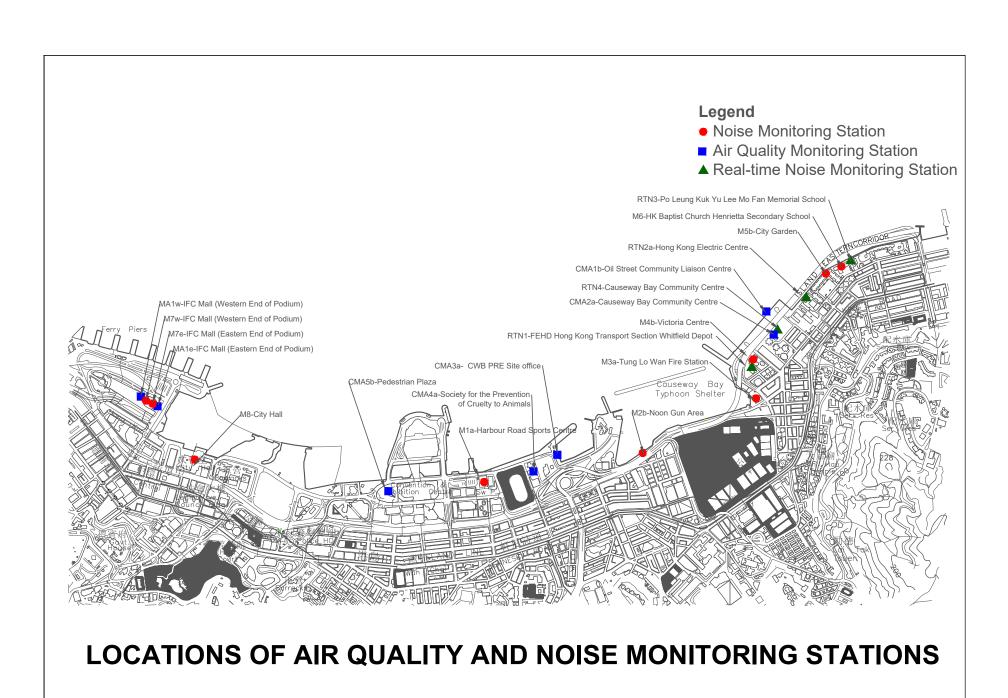
## Figure 2.2

**Project Organization Chart** 



## Figure 4.1

**Locations of Monitoring Stations** 



## Appendix 3.1

**Environmental Mitigation Implementation Schedule** 

#### IMPLEMENTATION SCHEDULE OF THE PROPOSED MITIGATION MEASURES

#### Table A.1 Implementation Schedule for Air Quality Control

WDII & CWB EIA	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Ir		nentat iges*	ion	Relevant Legislation
Report Ref	Environmental Protection (vicasures / vinigation (vicasures	Location / Timing	Agent	Des	C	o	Dec	and Guidelines
Construction								
S3.6.5	Four times a day watering of the work site with active operations.	Work site / during construction	Contractor		√			EIAO-TM
S3.8.1	<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	Phase					•		
S3.6.53 – S3.6.54	The design parameters of the East and Central Ventilation Buildings as set in Tables 3.10 and 3.11 of Volume 1 of the WDII & CWB EIA Report.	East and Central Ventilation Buildings / During operation of the Trunk Road	HyD			7		
S3.10.2	Air quality monitoring for the operation performance of the East Ventilation Building and associated East Vent Shaft will be conducted.	East Vent Shaft / During operation of the East Ventilation Building and associated East Vent Shaft	HyD			V		EIAO-TM

<sup>\*</sup> Des - Design, C - Construction, O – Operation, and Dec - Decommissioning

 Table A.2
 Implementation Schedule for Noise Control

WDII & CWB EIA	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Im		nentat ges*	ion	Relevant Legislation
Report Ref	Environmental Protection Weasures / Whilgation Weasures	Location / Thining	Agent	Des	C	О	Dec	and Guidelines
Construction	n Phase							
S4.9.3	<ul> <li>Good Site Practice:</li> <li>Only well-maintained plant shall be operated on-site and plant shall be serviced regularly during the construction program.</li> <li>Silencers or mufflers on construction equipment shall be utilized and shall be properly maintained during the construction program.</li> <li>Mobile plant, if any, shall be sited as far away from NSRs as possible.</li> <li>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.</li> <li>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.</li> </ul>	Work Sites / During Construction	Contractor		٧			EIAO-TM, NCO
S4.8.1 – S4.8.11	Material stockpiles and other structures shall be effectively utilized, wherever practicable, in screening noise from onsite construction activities.  Use of quiet powered mechanical equipment, movable noise barrier and temporary noise barrier for the following tasks:     Slip road 8 tunnel     Construction of diaphragm wall and substructures of the tunnel approach ramp     Excavation     Construction of slabs     Backfill	Work Sites / During Construction	Contractor		<b>√</b>			EIAO-TM, NCO

WDII & CWB EIA	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Im		nentat ges*	ion	Relevant Legislation
Report Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Agent	Des	C	О	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:         <ul> <li>At-grade road construction</li> <li>Substructure for IECL connection</li> </ul> </li> </ul>							
Operation 1	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	7	V		EIAO-TM

WDII & CWB EIA	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Implementation Stages*				Relevant Legislation
Report Ref	Environmental Protection (Vensures) (Managarion Mensures	Document, 111111111	Agent	Des	Des C O Dec	Dec	and Guidelines	
	For Future/Planned NSRs  • about 265m length of noise semi-enclosure with transparent panel covering the westbound slip road from the IEC	In between the Electric Centre (next to City Garden) and CDA(1) site / Before occupation of Planned NSRs in CDA and CDA(1) sites.	HyD	V	<b>√</b> #			
	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	~				

<sup>\*</sup> Des - Design, C - Construction, O – Operation, and Dec - Decommissioning

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

 Table A.4
 Implementation Schedule for Waste Management

WDII & CWB EIA	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In		entati ges*	on	Relevant Legislation
Report Ref	Environmental Protection Measures / Mitigation Measures	Location / Thinning	Agent	Des	C	О	Dec	and Guidelines
Construction	on Phase							
S6.5.14	Ploating Refuse During the construction phase, the project proponent's contractor will be responsible for the collection of any refuse within their works area. Floating booms will be provided on the water surface to confine the refuse from the working barges as well as to avoid the accumulation of pollutants within temporary embayment as mentioned in Table D9.3.	Work site / During the construction period	Contractor		√			
S6.6.1	<ul> <li>Good Site Practices</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		V			Waste Disposal Ordinance (Cap.354)

WDII & CWB EIA	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	nplem Stag		on	Relevant Legislation
Report Ref	Environmental Protection Measures / Minigation Measures	Location / Timing	Agent	Des	C	o	Dec	and Guidelines
S6.6.2	Waste reduction Measures  Waste reduction is best achieved at the planning and design stage, as well as by ensuring the implementation of good site practices. Recommendations to achieve waste reduction include:  • segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal;  • to encourage collection of aluminium cans, PET bottles and paper, separate labelled bins shall be provided to segregate these wastes from other general refuse generated by the work force;  • any unused chemicals or those with remaining functional capacity shall be recycled;  • use of reusable non-timber formwork, such as in casting the tunnel box sections, to reduce the amount of C&D material.  • prior to disposal of C&D waste, it is recommended that wood, steel and other metals shall be separated for re-use and / or recycling to minimise the quantity of waste to be disposed of to landfill;  • proper storage and site practices to minimise the potential for damage or contamination of construction materials; and  • plan and stock construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste.	Work site / During planning and design stage, and construction stage	Contractor	<b>√</b>	7			

WDII & CWB EIA	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	ıplem Staş		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		√			Public Health and Municipal Services Ordinance (Cap. 132)
S6.6.5	Chemical Wastes  After use, chemical wastes (for example, cleaning fluids, solvents, lubrication oil and fuel) shall be handled according to the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. Spent chemicals shall be collected by a licensed collector for disposal at the CWTF or other licensed facility in accordance with the Waste Disposal (Chemical Waste) (General) Regulation.	Work site / During the construction period	Contractor		V			Waste Disposal (Chemical Waste) (General) Regulation Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes
S6.6.6	Construction and Demolition Material  C&D material shall be sorted on-site into inert C&D material (that is, public fill) and C&D waste. All the suitable inert C&D material shall be broken down to 250 mm in size for reuse as public fill in the WDII reclamation. C&D waste, such as wood, glass, plastic, steel and other metals shall be reused or recycled and, as a last resort, disposed of to landfill. A suitable area shall be designated to facilitate the sorting process and a temporary stockpiling area will be required for the separated materials.	Work site / During the construction period	Contractor		V			ETWB TCW No. 33/2002, 31/2004, 19/2005

WDII & CWB EIA	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In		entati ges*	on	Relevant Legislation
Report Ref	Environmental i Totection Measures / Mitigation Measures	Location / Timing	Agent	Des	C	О	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		√			ETWB TCW No. 31/2004
S6.6.8	Bentonite Slurry  The disposal of residual used bentonite slurry shall follow the good practice guidelines stated in ProPECC PN 1/94 "Construction Site Drainage" and listed as follows:  If the disposal of a certain residual quantity cannot be avoided, the used slurry may be disposed of at the marine	Work site / During the construction period	Contractor		V			ProPECC PN 1/94
	spoil grounds subject to obtaining a marine dumping licence from EPD on a case-by-case basis.							
	<ul> <li>If the used bentonite slurry is intended to be disposed of through the public drainage system, it shall be treated to the respective effluent standards applicable to foul sewers, storm drains or the receiving waters as set out in the Technical Memorandum of Standards for Effluents Discharged into Drainage and Sewerage Systems, Inland and Coastal Waters.</li> </ul>							
	• 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.							

<sup>\*</sup> Des - Design, C - Construction, O – Operation, and Dec - Decommissioning

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 Table A.5
 Implementation Schedule for Land Contamination

WDII & CWB EIA	Environmental Protection Measures / Mitigation Measures	Location / Timing Implementation		In		entati ges*	on	Relevant Legislation
Report Ref	Environmental Potection Measures / Mulgation Measures	Location / Timing	Agent	Des	С	O	Dec	and Guidelines
Construction	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.							

<sup>\*</sup> Des - Design, C - Construction, O – Operation, and Dec - Decommissioning

Table A.7 Implementation Schedule for Landscape and Visual

WDII & CWB EIA	<b>Environmental Protection Measures / Mitigation Measures</b>	Location / Timing	Implementation Agent	Ir	nplem Sta	entati ges*	on	Relevant Legislation and Guidelines
Report Ref				Des	C	О	Dec	
Construction P	hase							
Table 10.5	CM1 Topsoil, where identified, shall be stripped and stored re-use in the construction of the soft landscape wor where practical.	<u>e</u>	Contractor	V	V			EIAO TM
Table 10.5	CM2 Existing trees to be retained on site shall be careful protected during construction.	Work site / During Construction Phase	Contractor	<b>V</b>	√			EIAO TM
Table 10.5	CM3 Trees unavoidably affected by the works shall transplanted where practical.	be Work site / During Construction Phase	Contractor	<b>√</b>	<b>√</b>			EIAO TM
Table 10.5	CM4 Compensatory tree planting shall be provided compensate for felled trees.	to Work site / During Construction Phase	Contractor	<b>√</b>	<b>√</b>			EIAO TM
Table 10.5	CM5 Control of night-time lighting.	Work site / During Construction Phase	Contractor		<b>√</b>			EIAO TM
Table 10.5	CM6 Erection of decorative screen hoarding compatible with surrounding setting.	he Work site / During Construction Phase	Contractor		√			EIAO TM
Operation Phas								
Table 10.6, Figure 10.5.1- 10.5.5	OM1 Aesthetic design of buildings and road-related structur including viaducts, vent buildings, subways, footbridg and noise barriers and enclosure.		HyD	√	$\sqrt{}$	√		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	$\sqrt{}$	1		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	V	<b>V</b>		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	V	V	V		ETWB TCW 2/2004

<sup>\*</sup>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 Leve	el in $\mu$ g/m $^3$	24-hour TSP Le	evel 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
CMA3a	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



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



#### CERTIFICATE OF CALIBRATION

Certificate No.:

15CA1203 04-01

Page

of

2

Item tested

Description:

Sound Level Meter (Type 1)

Microphone

Manufacturer:

B&K 2236

B&K

Type/Model No .: Serial/Equipment No.: 2100736

4188

Adaptors used:

2288941

Item submitted by

Customer Name:

Lam Geotechnics Limited

Address of Customer: Request No.

Date of receipt:

03-Dec-2015

Date of test:

04-Dec-2015

Reference equipment used in the calibration

Description:

Multi function sound calibrator

Model: Serial No. **Expiry Date:** 

Traceable to:

Signal generator

B&K 4226 DS 360

2288444

19-Jun-2016 16-Apr-2016 CIGISMEC

Signal generator

DS 360

33873 61227

16-Apr-2016

CEPREI CEPRE

Ambient conditions

Temperature:

22 ± 1 °C 50 ± 10 %

Relative humidity: Air pressure:

1010 ± 10 hPa

#### Test specifications

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

The electrical tests were performed using an electrical signal substituted for the microphone which was removed and 2, 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.

Huang Jian Min/Feng Jun Qi

Actual Measurement data are documented on worksheets.

Approved Signatory:

Date:

05-Dec-2015

Company Chop:

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.CARP152-1/Issue 1/Rev.C/01/02/2007



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



## CERTIFICATE OF CALIBRATION

(Continuation Page)

Certificate No.:

15CA1203 04-01

Page

2

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	Λ	Pass	0.3	
Self-gellerated Holse	A C	Pass	1.0	2.1
	Lin	Pass	2.0	2.1
Linearity range for Leq	At reference range , Step 5 dB at 4 kHz	Pass	0.3	2.2
Lineality range for Led	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 CDI	THE TO THE	Pass		
Linearity range for SPL	At reference range , Step 5 dB at 4 kHz	Pass	0.3	
Frequency weightings	A C		0.3	
		Pass	0.3	
with the state of	Lin	Pass	0.3	
Time weightings	Single Burst Fast	Pass	0.3	
ÉTALLA I	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 1/103 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.

Calibrated by:

Date:

Fung Chi Yip 04-Dec-2015 End

Checked by:

Date:

Lam Tze Wai 05-Dec-2015

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

Soils & Materials Engineering Co., Ltd.

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



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### CERTIFICATE OF CALIBRATION

Certificate No.:

16CA0413 02

Page

Item tested

Description: Manufacturer: Type/Model No.:

Adaptors used:

Sound Level Meter (Type 1)

B&K 2250-L 4950 2722310

Microphone Preamp B&K ZC0032 2698702 13318

Tel: (852) 2873 6860

Fax: (852) 2555 7533

Item submitted by

Serial/Equipment No.:

Customer Name:

Lam Geotechnics Limited

Address of Customer:

Request No. Date of receipt:

13-Apr-2016

Date of test:

09-May-2016

Reference equipment used in the calibration

Multi function sound calibrator

Signal generator Signal generator

Model: B&K 4226 DS 360

2288444 33873

Serial No. **Expiry Date:** 19-Jun-2016

18-Apr-2017 18-Apr-2017 Traceable to: CIGISMEC CEPREL

DS 360 61227 CEPREI

Ambient conditions

Temperature: Relative humidity:

Air pressure:

21 ± 1 °C 60 ± 10 % 1005 ± 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 2. 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.

in/Fena Jun Qi

Actual Measurement data are documented on worksheets.

Huand

Approved Signatory:

Date:

10-May-2016

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.

Soils & Materials Engineering Co. Ltd.

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



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### CERTIFICATE OF CALIBRATION

(Continuation Page)

Certificate No.: 16CA0413 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
1000.	Gubicot.	otatus.	oncortainty (ab)	1 40101
Self-generated noise	Α	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	Α	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 1/103 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.

Calibrated by:

Date:

na

Fung Chi Yip 09-May-2016 End

Checked by:

Date:

J.Q. Feng 10-May-2016

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

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## CERTIFICATE OF CALIBRATION

Certificate No.:

16CA0519 02

Page

Tel: (852) 2873 6860

Fax: (852) 2555 7533

Item tested

Description: Manufacturer: Sound Level Meter (Type 1) **B&K** 

2250-L

2722311

**B&K** 4950 2698703

Microphone

Preamp B&K ZC0032 13321

2

Adaptors used:

Type/Model No.:

Item submitted by

Serial/Equipment No.:

Customer Name: Address of Customer: Lam Geotechnics Limited

Request No.:

Date of receipt:

19-May-2016

Date of test:

21-May-2016

#### Reference equipment used in the calibration

Description: Multi function sound calibrator

Signal generator Signal generator

Model: B&K 4226 DS 360

DS 360

2288444 33873 61227

Serial No.

**Expiry Date:** 19-Jun-2016 18-Apr-2017

18-Apr-2017

Traceable to: CIGISMEC CEPREI CEPRE

Ambient conditions

Temperature: Relative humidity:

Air pressure:

21 ± 1 °C 55 ± 10 % 1005 ± 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.

2, The electrical tests were performed using an electrical signal substituted for the microphone which was removed and replaced by an equivalent capacitance within a tolerance of ±20%

3, The acoustic calibration was performed using an B&K 4226 sound calibrator and corrections was applied for the difference between the free-field and pressure responsess of the Sound Level Meter,

#### Test results

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

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

Actual Measurement data are documented on worksheets.

Huang Jian

Approved Signatory:

Ain/Feng Jun Qi

Date:

23-May-2016

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.

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



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



#### CERTIFICATE OF CALIBRATION

(Continuation Page)

Certificate No.:

16CA0519 02

Page

2

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	Α	Pass	0.3	
2 1 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	C	Pass	0.8	
	Lin	Pass	1.6	
Linearity range for Leg	At reference range, Step 5 dB at 4 kHz	Pass	0.3	
de la constanta de la constant	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	Α	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 1/103 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.

Calibrated by:

Date:

Fung Chi Yip

21-May-2016

- End

Checked by:

Date: 2

Lam Tze Wai 23-May-2016

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

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## CERTIFICATE OF CALIBRATION

Certificate No.:

16CA0307 02

Page

2

Item tested

Description: Manufacturer: Type/Model No.: Sound Level Meter (Type 1) 2250-L 2701778

Microphone B & K 4950 2755097

Preamp B & K ZC0032 19556

Serial/Equipment No.: Adaptors used:

Item submitted by

Customer Name:

Address of Customer: Request No.

Date of receipt:

Lam Geotechnics Ltd.

07-Mar-2016

Date of test:

08-Mar-2016

Reference equipment used in the calibration

Description:

Multi function sound calibrator

Signal generator Signal generator

Model: B&K 4226 DS 360

DS 360

Serial No. 2288444 33873

61227

Expiry Date: 19-Jun-2016

16-Apr-2016 16-Apr-2016 CEPREL

Traceable to: CIGISMEC CEPREI

Ambient conditions

Temperature: Relative humidity: Air pressure:

21 ± 1 °C 50 ± 10 % 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.

2, The electrical tests were performed using an electrical signal substituted for the microphone which was removed and replaced by an equivalent capacitance within a tolerance of +20%.

3, The acoustic calibration was performed using an B&K 4226 sound calibrator and corrections was applied for the difference between the free-field and pressure responsess of the Sound Level Meter.

#### Test results

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

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

Huang Jian Min/Feng Jun Qi

Actual Measurement data are documented on worksheets.

Approved Signatory:

Date:

09-Mar-2016

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.

C Soils & Materials Engineering Co., Ltd.

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



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#### CERTIFICATE OF CALIBRATION

(Continuation Page)

Certificate No.:

16CA0307 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 C	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 1/103 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.

Calibrated by:

Fung Chi Yip Date: 08-Mar-2016 End

Checked by:

Date:

Lam Tze Wai 09-Mar-2016

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

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.:

16CA0127 02

Page

Item tested

Description:

Sound Level Meter (Type 1)

Microphone

Manufacturer:

**B&K** 

**B&K** 

Preamp B&K

Type/Model No.: Serial/Equipment No .: 2250-L 3002695

4950 2940839 ZC0032 18582

Adaptors used:

Item submitted by

**Customer Name:** 

Lam Geoechnics Ltd

Address of Customer:

Request No.

Date of receipt:

27-Jan-2016

Date of test:

28-Jan-2016

Reference equipment used in the calibration

Description:

Multi function sound calibrator

Model:

Serial No.

**Expiry Date:** 

Traceable to:

Signal generator

B&K 4226

2288444

19-Jun-2016 16-Apr-2016 CIGISMEC

Signal generator

DS 360 DS 360 33873 61227

16-Apr-2016

CEPREI CEPREI

**Ambient conditions** 

Temperature: Air pressure:

21 ± 1 °C

Relative humidity:

60 ± 10 % 1010 ± 5 hPa

Test specifications

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

2. The electrical tests were performed using an electrical signal substituted for the microphone which was removed and replaced by an equivalent capacitance within a tolerance of +20%

3, The acoustic calibration was performed using an B&K 4226 sound calibrator and corrections was applied for the difference between the free-field and pressure responsess of the Sound Level Meter.

#### Test results

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

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

Huang-Jian-Nin/Feng Jun Qi

Actual Measurement data are documented on worksheets.

Approved Signatory:

Date:

29-Jan-2016

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.

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



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2



#### CERTIFICATE OF CALIBRATION

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Certificate No.:

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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	Α	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	Α	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 1/103 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 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.

Calibrated by:

Checked by:

Fung Chi Yip
28-Jan-2016

Date: 29-Jan-2016

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

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



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



## CERTIFICATE OF CALIBRATION

Certificate No.:

16CA0513 01-02

Page:

Item tested

Description:

Acoustical Calibrator (Class 1)

Manufacturer: Type/Model No.: Rion Co., Ltd.

Serial/Equipment No.:

NC-73 10465798

Adaptors used:

Item submitted by

Curstomer:

Lam Geotechnics Ltd.

Address of Customer:

Request No.

Date of receipt:

13-May-2016

Date of test:

17-May-2016

## Reference equipment used in the calibration

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

#### Ambient conditions

Temperature:

22 ± 1 °C

Relative humidity:

55 ± 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 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.

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

Approved Signatory:

Date:

18-May-2016

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

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



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



# CERTIFICATE OF CALIBRATION

(Continuation Page)

Certificate No.:

16CA0513 01-02

2

of

Measured Sound Pressure Level

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

			(Output level in dB re 20 µPa)
Frequency Shown Hz	Output Sound Pressure Level Setting dB	Measured Output Sound Pressure Level dB	Estimated Expanded Uncertainty dB
1000	94.00	93.96	0.10

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

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

At 1000 Hz

STF = 0.001 dB

Estimated expanded uncertainty

0.005 dB

#### 3, **Actual Output Frequency**

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

At 1000 Hz

Actual Frequency = 967.3 Hz

Estimated expanded uncertainty

0.1 Hz

Coverage factor k = 2.2

#### 4. **Total Noise and Distortion**

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

At 1000 Hz

TND = 0.8 %

Estimated expanded uncertainty

07%

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.

Calibrated by:

Fnd

Date:

Fung Chi Yip 17-May-2016 Checked by:

Date:

Lam Tze Wa 18-May-2016

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

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Form No CARP156-2/Issue 1/Rev C/01/05/2005



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 - M Operator		Rootsmeter Orifice I.I		0438320 3166	Ta (K) - Pa (mm) -	293 748.03
PLATE OR Run #	VOLUME START (m3)	VOLUME STOP (m3)	DIFF VOLUME (m3)	DIFF TIME (min)	METER DIFF Hg (mm)	ORFICE DIFF H2O (in.)
1 2 3 4 5	NA NA NA NA	NA NA NA NA NA	1.00 1.00 1.00 1.00	1.4270 1.0220 0.9100 0.8730 0.7180	3.2 6.4 7.9 8.8 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)
0.9967 0.9925 0.9904 0.9892 0.9840	0.6985 0.9711 1.0883 1.1332 1.3705	1.4150 2.0010 2.2372 2.3464 2.8299	0.9957 0.9915 0.9893 0.9882 0.9830	0.6977 0.9701 1.0872 1.1320 1.3691	0.8851 1.2517 1.3995 1.4678 1.7702
Qstd slo intercep coeffici y axis =	t (b) = ent (r) =	2.10714 -0.05158 0.99978 	Qa slop intercep coeffici	t (b) =	1.31946 -0.03226 0.99978

#### CALCULATIONS

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

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

For subsequent flow rate calculations:

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



## Calibration Data for High Volume Sampler (TSP Sampler)

TESTING	Calibi	I ation D	ata ioi i	light volume 3	amplei (13r Sample	1)	
Location :		CMA1b			Calbration Date	:	13-Jul-16
Equipment no.		HVS001			Calbration Due Date	:	13-Sep-16
CALIBRATION OF CONTIL	NUOUS FL	OW RECOR	RDER				
				Ambient Condition			
Temperature, T <sub>a</sub>		302		Kelvin Pressure	a, Pa	1005	mmHg
		-	Orifice	Transfer Standard Info	ormation		
Equipment No.		Ori002		Slope, m <sub>c</sub> 2.	10714 Intercept, bo		-0.05158
Last Calibration Date	ation Date 20-May-16				(H x P <sub>a</sub> / 1013.3 x 298 /	$(T_a)^{1/2}$	
Next Calibration Date		20-May-1	7		$= m_c \times Q_{std} + b_c$		
	-			Calibration of TSP			
Calibration	Mai	nometer Re	ading	Q <sub>std</sub>	Continuous Flow	T	IC
Point	H (inches of water)			(m³ / min.)	Recorder, W	(W(P <sub>a</sub> /	1013.3x298/T <sub>a</sub> ) <sup>1/2</sup> /35.31)
	(up)			X-axis	(CFM)		Y-axis
1	5.6	5.6	11.2	1.5957	54		53.4211
2	4.4	4.4	8.8	1.4172	48		47.4854
3	3.6	3.6	7.2	1.2842	42		41.5497
4	2.5	2.5	5.0	1.0743	34		33.6355
5	1.6	1.6	3.2	0.8643	28		27.6998
By Linear Regression of Y	on X						
	Slope, m	=	36.0	0048	Intercept, b = -4	1.1452	
Correlation C	oefficient*	i i	0.9	976			
Calibration	Accepted	l = 1	Yes/	No**			
t if Completion Coefficient of	0.000		Dharitan and				
* if Correlation Coefficient <	0.990, cne	eck and reca	ilibration aga	in.			
** Delete as appropriate.							
Remarks : As per client's	provided i	nformation,	the equipme	nt reference no. of the	calibrated High Volume Sampler	has been	
re-assigned fr	om EL452	to HVS001	with respect	to the update in quality	management system.		
Calibrated by :		Kit Au			Checked by	1	Pauline Wong
Date :	1	3-Jul-16			Date		13-Jul-16



## Calibration Data for High Volume Sampler (TSP Sampler)

Location		CMA2a	Calbration Date	2	13-Jul-16
Equipment no.	:	HVS002	Calbration Due Date		13-Sep-16

				Ambient C	ondition			
emperature, T <sub>a</sub>		302	2	Kelvin	Pressure, Pa		1005 mmHg	
			Orifice	Transfer Sta	ndard Information			
Equipment No.	Ori002			Slope, m <sub>c</sub> 2.10714 Intercept, bc			-0.05158	
Last Calibration Date	ate 20-May-16				(HxP	, / 1013.3 x 298 /	(T <sub>a</sub> ) 1/2	
Next Calibration Date 20-May-17				¥	$m_c \times Q_{std} + b_c$			
				Calibratio	n of TSP			
Calibration Manometer Reading				Q std Con		Continuous Flow	IC	
Point	H (inches of water)			(m <sup>3</sup> /	/ min.)	Recorder, 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	6.8	6.8	13.6	1.7	7559	58	57.3782	
2	5.5	5.5	11.0	1,5	5816 52		51,4425	
3	4.2	4.2	8.4	1.3	852 46		45.5068	
4	2.9	2.9	5.8	1.1	552	552 38		
5	1.6	1.6	3.2	0.8	8643 30		29.6784	
y Linear Regression of Y or	ı X							
	Slope, m	=	31.2	2362	Intercept	i, b =2	2.1999	
Correlation Coefficient* =			0.9	991				
			Yes/	No**				

Remarks : As	per client's pro	ovided information, the equipment refer	rence no. of the calibrated High Volume Sar	npler has be	en
<u>re</u>	-assigned from	EL449 to HVS002 with respect to the u	update in quality management system.		
Calibrated by	1	Kit Au	Checked by	9.	Pualine Wong
Date	1	13-Jul-16	Date	1	13-Jul-16

13-Jul-16



Location :	CMA3a HVS012				Ca	Ibration Date	19	13-Jul-16	
Equipment no.					Ca	Ibration Due Date	: 13-Sep-16		
CALIBRATION OF CONT	INUOUS I	FLOW REC	ORDER						
				Ambient Cond					
Temperature, T <sub>a</sub>		302		Kelvin Pre	ssure, P <sub>a</sub>		1005	mmHg	
			Orifice T	ransfer Standar	d Information				
Equipment No.				Slope, m <sub>c</sub>	2.10714	Intercept, bo	-	-0.05158	
Last Calibration Date	ast Calibration Date 20-May-16				$(HXP_a)$	1013.3 x 298 /	$(T_a)^{1/2}$		
Next Calibration Date		20-May-17	7	$= m_c \times Q_{std} + b_c$					
				Calibration of	rsp				
Calibration		Manometer Reading			Q <sub>std</sub> Contir		IC		
Point	H (inches of water)			(m <sup>3</sup> / min.)		Recorder, W	(W(P <sub>e</sub> /1013.3x298/T <sub>e</sub> ) <sup>1/2</sup> /35.3		
	(up)	(down)	(difference)	X-axis		(CFM)	Y-axis		
1	5.4	5.4	10.8	1.5674		52		51.4425	
2	4.4	4.4	8.8	1.4172		48		47.4854	
3	3.4	3.4	6.8	1.2488	12	42	41.5497		
4	2.4	2.4	4.8	1.0531		38	37.5926		
5	1.4	1.4	2.8	0.8101		30	29.6784		
By Linear Regression of Y	on X								
	Slope, m	=	28.4	435	Intercept,	b =6	.8685		
Correlation Co	efficient*	=	0.99	975					
Calibration Accepted = Yes/A			Ne**						
if Correlation Coefficient <	0.990, ch	neck and rec	calibration ag	ain.					
* Delete as appropriate.									
	s provided	information	, the equipm	ent reference no	o. of the calibrate	ed High Volume Sar	npler has	been	
iomaino.							_		

Date

13-Jul-16

Date



	HVS004			230.		-	
				Calbi	ration Due Date	·	13-Sep-16
TINUOUS F	LOW REC	ORDER					
			Ambient C	Condition			
	302		Kelvin	Pressure, Pa		1005	mmHg
		Orifice	Transfer Sta	ndard Information			
	Ori002		Slope, m <sub>c</sub>	2.10714	Intercept, bc		-0.05158
	20-May-1	6		(HxPa)	1013.3 x 298 /	$T_a)^{1/2}$	
	20-May-1	7		= n	$n_c \times Q_{std} + b_c$		
			Calibratio	n of TSP			
			(m <sup>3</sup> /	min.)		(W(P <sub>a</sub> /1	IC  013.3x298/T <sub>a</sub> ) <sup>1/2</sup> /35.31)   <b>Y-axis</b>
5.5	5.5	11.0	1.58	316	52		51.4425
4.4	4.4	8.8	1.41	172	48		47.4854
3.4	3.4	6.8	1.24	188	40		39.5711
2.1	2.1	4.2	0.98	366	32		31.6569
1.5	1.5	3.0	0.83	377	24		23.7427
Slope, m	= =	0.9	947	Intercept, b	=	.1671	-
			ent reference	no. of the calibrated h		r has beer	1
	Mai H ((up) 5.5 4.4 3.4 2.1 1.5 on X Slope, m coefficient*	Ori002 20-May-1 20-May-1 20-May-1  Manometer Re H (inches of to the control of th	Ori002  20-May-16  20-May-17   Manometer Reading  H (inches of water)  (up) (down) (difference)  5.5 5.5 11.0  4.4 4.4 8.8  3.4 3.4 6.8  2.1 2.1 4.2  1.5 1.5 3.0  Yon X  Slope, m = 37.0  coefficient* = 0.9  Accepted = Yes/	Name   State   State	Ambient Condition   302   Kelvin   Pressure, Pa	Slope, m <sub>c</sub>   Continuous Flow	Slope, m



Location	3	CMA5b	Calbration Date	:	13-Jul-16
Equipment no.	1	HVS010	Calbration Due Date	:	13-Sep-16

#### CALIBRATION OF CONTINUOUS FLOW RECORDER

		Ambient Cond	dition		
emperature, T <sub>a</sub>	302	Kelvin Pr	essure, P <sub>a</sub>		1005 mmHg
	Orific	ce Transfer Standa	ard Information		
Equipment No.	Ori002	Slope, m <sub>c</sub>	2.10714	Intercept, bo	-0.05158
Last Calibration Date	20-May-16		$(HxP_a$	/ 1013.3 x 298/	$(T_a)^{1/2}$
Next Calibration Date	20-May-17		=	$m_c \times Q_{std} + b_c$	
		Calibration of	FTSP		
Calibration	Manometer Reading	Q std	(	Continuous Flow	IC
Point	H (inches of water)	(m <sup>3</sup> / mir	n.)	Recorder, W	(W(P <sub>a</sub> /1013.3x298/T <sub>a</sub> ) <sup>1/2</sup> /35.3

Calibration Point		(inches of (down)		Q <sub>std</sub> (m <sup>3</sup> / min.) X-axis	Continuous Flow Recorder, W (CFM)	IC (W(P <sub>a</sub> /1013.3x298/T <sub>a</sub> ) <sup>1/2</sup> /35.31 Y-axis
1	5.5	5.5	11.0	1.5816	58	57.3782
2	4.3	4.3	8.6	1.4013	53	52,4318
3	3.4	3.4	6.8	1.2488	48	47.4854
4	2.2	2.2	4.4	1.0093	41	40.5604
5	1.4	1.4	2.8	0.8101	34	33.6355

By Linea	ar Regression of Y on X					20.05.2
	Slope, m	=	30.6917	Intercept, b =	9.1551	
	Correlation Coefficient*		0.9993	<del></del>		-
	Calibration Accepted	-	Yes/No**			
		-				

** [	)e	lete	as	appi	opr	iate.
------	----	------	----	------	-----	-------

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

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



Location	1	CMA6a	Calbration Date	10	13-Jul-16
Equipment no.	2	HVS013	Calbration Due Date		13-Sep-16

#### CALIBRATION OF CONTINUOUS FLOW RECORDER

		Ambient Condition		
Temperature, T <sub>a</sub>	302	Kelvin Pressure, Pa	1005	mmHg
	Orifi	ce Transfer Standard Information		

	Ori	fice Transfer Standa	ard Information		
Equipment No.	Ori002	Slope, m <sub>c</sub>	2.10714	Intercept, bc	-0.05158
Last Calibration Date	20-May-16		$(HxP_a$	/1013.3 x 298 / T <sub>a</sub> )	1/2
Next Calibration Date	20-May-17		ê j	$m_c \times Q_{std} + b_c$	

			C	alibration of TSP		
Calibration Point		nometer R (inches of (down)		Q <sub>std</sub> (m <sup>3</sup> / min.) X-axis	Continuous Flow Recorder, W (CFM)	IC (W(P <sub>a</sub> /1013.3x298/T <sub>a</sub> ) <sup>1/2</sup> /35.31 <b>Y-axis</b>
1	5.8	5.8	11.6	1.6235	60	59.3567
2	4.8	4.8	9.6	1.4791	52	51.4425
3	3.8	3.8	7.6	1.3188	48	47.4854
4	2.4	2.4	4.8	1.0531	40	39.5711
5	1.4	1.4	2.8	0.8101	32	31.6569
	Slope, m Coefficient* on Accepted	-	32.4558 0.9939 Yes/Ne*		Intercept, b =	5.1084

<sup>\*</sup> 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 EL551 to HVS013 with respect to the update in quality management system.

Calibrated by	:	Kit Au	Checked by		Pauline Wong
Date	:	13-Jul-16	Date	4.5	13-Jul-16
	_			_	

<sup>\*\*</sup> Delete as appropriate.



 Location
 :
 MA1w
 Calbration Date
 :
 13-Jul-16

 Equipment no.
 :
 HVS008
 Calbration Due Date
 :
 13-Sep-16

#### CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition		HK1610369		
Temperature, T <sub>a</sub>	302	Kelvin Pressure, Pa	1005	mmHg

Orifice Transfer Standard Information									
Equipment No.	Ori002	Slope, m <sub>c</sub>	2.10714	Intercept, bc	-0.05158				
Last Calibration Date	20-May-16		$(HxP_a/$	1013.3 x 298 / T <sub>a</sub> )	1/2				
Next Calibration Date	20-May-17		= <i>m</i>	$_{c} \times Q_{std} + b_{c}$					

			Cal	ibration of TSP		
Calibration Point	M - A.8.	nometer R (inches of		Q <sub>std</sub> (m <sup>3</sup> / min.) X-axis	Continuous Flow  Recorder, W  (CFM)	IC (W(P <sub>a</sub> /1013.3x298/T <sub>a</sub> ) <sup>1/2</sup> /35.31 Y-axis
1	6.6	6.6	13.2	1.7302	58	57.3782
2	5.4	5.4	10.8	1.5674	52	51.4425
3	4.2	4.2	8.4	1.3852	44	43.5283
4	2.5	2.5	5.0	1.0743	32	31.6569
5	1.6	1.6	3.2	0.8643	22	21.7641
By Linear Regression of	Y on X					
	Slope, m	¥	40.9142		Intercept, b = -	13.0277
Correlation	Coefficient*	=	0.9993		**************************************	
Calibratio	n Accepted	=	Yes/No*			

* 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 EL080 to HVS008 with respect to the update in quality management system.

 Calibrated by
 :
 Kit Au
 Checked by
 :
 Pauline Wong

 Date
 :
 13-Jul-16
 Date
 :
 13-Jul-16



Location	1	MA1e	Calbration Date	:	13-Jul-16
Equipment no.	•	HVS007	Calbration Due Date	: =	13-Sep-16

### CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition								
Temperature, T <sub>a</sub>	302	Kelvin Pressure, P <sub>a</sub>	1005	mmHg				

Orifice Transfer Standard Information									
Equipment No.	Ori002	Slope, m <sub>c</sub>	2.10714	Intercept, bc	-0.05158				
Last Calibration Date	20-May-16		$(HxP_a/$	1013.3 x 298 / T <sub>a</sub> )	1/2				
Next Calibration Date	20-May-17		= <i>m</i>	$_{c} \times Q_{std} + b_{c}$					

Calibration of TSP										
Calibration Point		nometer R (inches of (down)		Q <sub>std</sub> (m <sup>3</sup> / min.) X-axis	Continuous Flow  Recorder, W  (CFM)	IC (W(P <sub>a</sub> /1013.3x298/T <sub>a</sub> ) <sup>1/2</sup> /35.31) <b>Y-axis</b>				
1	6.6	6.6	13.2	1.7302	63	62.3246				
2	5.4	5.4	10.8	1.5674	56	55.3996				
3	4.3	4.3	8.6	1.4013	44	43.5283				
4	2.4	2.4	4.8	1.0531	32	31.6569				
5	1.6	1.6	3.2	0.8643	20	19.7856				

By Linear	Regression	of	Y	on X	
-----------	------------	----	---	------	--

Slope, m = 47.8740 Intercept, b = -20.8106

Correlation Coefficient\* = 0.9942

Calibration Accepted = Yes/Ne\*\*

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
 :
 Kit Au
 Checked by
 :
 Pauline Wong

 Date
 :
 13-Jul-16
 Date
 :
 13-Jul-16

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

## 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 August 2016

			August 2	2016			
Sunday	Monday	Tuesday	Wednesday	27 101	Thursday	Friday	Saturday
				27-Jul	28-J 24hr TSP	29-Jul 24hr TSP (CMA5b) 1hr TSP	30-Jul
31-Jul	1-Aug Noise (daytime) (M1a, M8)		24hr TSP	3-Aug	4-Au 1hr TSP	g 5-Aug	6-Aug
			Noise (daytime) (M2b, M3a, M4b, M5b, M6)		Noise (daytime) (M7e, M7w)		
7-Aug			24hr TSP (CMA1b) 1hr TSP	10-Aug	11-Ai	g 12-Aug	13-Aug
14-Aug			1	17-Aug	18-Au	g 19-Aug	20-Aug
	24hr TSP Noise (daytime) (M1a,M2b)	24hr TSP (MA1e) 1hr TSP Noise (daytime) (M5b, M6, M7e, M7w, M8)	Noise (daytime) (M3a,M4b)				24hr TSP
21-Aug	22-Aug	23-Aug	2	24-Aug	25-Aı	g 26-Aug	27-Aug
	24hr TSP (MA1e) 1hr TSP	Noise (daytime) (M1a,M2b,M5b,M6,M7e M7w,M8)	Noise (daytime) (M3a,M4b)				24hr TSP (CMA3a, CMA5b) 1hr TSP

#### 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

			September 2016 Wednesday			
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						27-Aug
28-Aug	3 29-Au	g 30-Aug		1-Sep	2-Sep 1hr TSP	3-Sep
	Noise (daytime)	Noise (daytime)		2411 135	1111 135	
4-Sep	5-Se	p 6-Sep	7-Sep	8-Sep	9-Sep	10-Sep
	Noise (daytime)	Noise (daytime)		1hr TSP		
11-Sep	Noise (daytime)		14-Sep 1hr TSP	15-Sep	16-Sep	17-Sep
18-Seg			21-Sep	22-Sep	23-Sep	24-Sep
	24hr TSP Noise (daytime)	1hr TSP Noise (daytime)				24hr TSP
25-Sep		P				
	1hr TSP					

### Appendix 5.2

Noise Monitoring Results and Graphical Presentations



### Noise Monitoring Result

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

Location: M1a - Harbour Road Sports Centre

				Measurement Noise Level		Baseline Level	Construction Noise Level	Limit Level	
	Date	Time	Weather	Leq	L10	L90	Leq	Leq	Leq
							Unit: dE	B(A), (30-min)	
Ī	1/8/2016	15:35	Cloudy	76.5	77.5	73.5	72	74	75
Ī	9/8/2016	11:08	Fine	76.4	78.0	73.5	72	74	75
Ī	15/8/2016	13:38	Fine	77.1	79.0	74.5	72	75	75
Ī	23/8/2016	11:17	Fine	74.1	76.0	71.0	72	70	75

Location: M2b - Noon-day gun area

			Measur	ement Noi	se Level	Baseline Level	Construction Noise Level	Limit Level
Date	Time	Weather	Leq	Leq L10		Leq	Leq	Leq
						Unit: dl	B(A), (30-min)	
3/8/2016	15:45	Cloudy	67.2	68.5	65.0	68	67	75
8/8/2016	10:55	Fine	68.6	70.0	66.0	68	62	75
15/8/2016	14:30	Fine	67.9	69.0	64.5	68	56	75
23/8/2016	14:45	Fine	66.5 68.0 64.5		68	67	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: dl	B(A), (30-min)	
3/8/2016	08:48	Cloudy	64.8	64.8 66.5 62.5		69	65	75
9/8/2016	13:20	Cloudy	65.7	67.0	63.5	69	66	75
17/8/2016	13:53	Cloudy	65.6	67.0	63.0	69	66	75
24/8/2016	13:47	Fine	66.3	67.5	64.5	69	66	75

Location: M4b - Victoria Centre

				Measure	ement Noi	se Level	Baseline Noise Level	Construction Noise Level	Limit Level
Dat	te	Time	Weather	Leq	L10	L90	Leq	Leq	Leq
						Unit: d	B(A), (30min)		
3/8/2	016	09:25	Cloudy	67.5	69.5	64.5	67	54	75
9/8/2	016	14:10	Cloudy	66.1	67.0	64.0	67	66	75
17/8/2	2016	13:09	Cloudy	67.4	69.0	65.0	67	51	75
24/8/2	2016	13:05	Fine	65.0 66.0 63.5		67	65	75	

Location: M5b - City Garden

			Measurement Noise Lev			Baseline Level	Construction Noise Level	Limit Level
Date	Time	Weather	Leq L10 L9		L90	Leq	Leq	Leq
						Unit: d	B(A), (30min)	
3/8/2016	10:10	Cloudy	69.7	70.0	68.5	68	65	75
9/8/2016	14:50	Cloudy	71.1 71.5 70.0		68	68	75	
16/8/2016	14:54	Cloudy	69.0	69.5	68.0	68	62	75
23/8/2016	15:29	Fine	70.3 70.5 69.5		68	66	75	

Location: M6 - HK Baptist Church Henrietta Secondary School

			Measure	Measurement Noise L		Baseline Level	Construction Noise Level	Limit Level
Date	Time	Weather	Leq	L10	L90	Leq	Leq	Leq
			200   210   200			Unit: dl	B(A), (30-min)	
3/8/2016	10:47	Cloudy	68.7	70.0	67.0	71	69	70
9/8/2016	15:30	Cloudy	71.2	72.0	70.0	71	62	70
16/8/2016	15:32	Cloudy	69.9	71.0	68.0	71	70	70
23/8/2016	16:07	Fine	69.7 70.5 68.0		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 L10 L90		Leq	Leq	Leq	
							B(A), (30-min)	
4/8/2016	08:45	Cloudy	66.2 67.0 65.0			67	66	N/A
9/8/2016	08:55	Fine	66.9	68.0	63.5	67	50	N/A
16/8/2016	10:00	Cloudy	65.4	67.5	63.0	67	65	N/A
23/8/2016	09:00	Fine	66.5	67.5	65.0	67	67	N/A

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

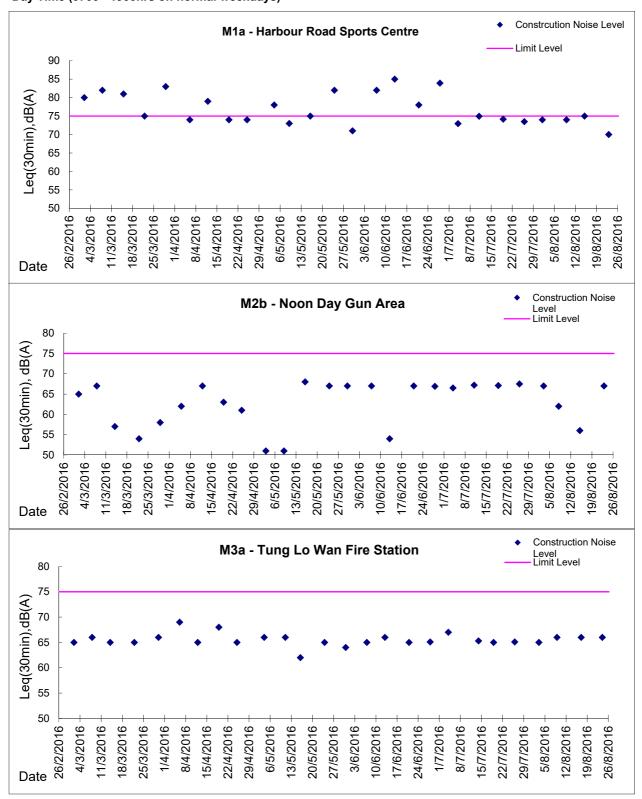
			Measurement Noise L			Baseline Level	Construction Noise Level	Limit Level
Date	Time	Weather	Leq L10 L90			Leq	Leq	Leq
						Unit: dE	3(A), (30-min)	
4/8/2016	09:45	Cloudy	64.0	65.0	62.5	69	64	75
9/8/2016	09:28	Fine	65.1 66.5 63.0		69	65	75	
16/8/2016	10:35	Cloudy	65.6	67.0	63.0	69	66	75
23/8/2016	09:35	Fine	66.0 67.0 65.0		69	66	75	

Location: M8 - City Hall

			Measurement Noise I		se Level	Baseline Level	Construction Noise Level	Limit Level
Date	Time	Weather	Leq	L10	L90	Leq	Leq	Leq
						Unit: dE	3(A), (30-min)	
1/8/2016	14:44	Cloudy	61.4	62.5	56.5	64	61	70
9/8/2016	10:13	Fine	60.8	62.5	57.0	64	61	70
16/8/2016	11:15	Cloudy	61.1	62.5	57.0	64	61	70
23/8/2016	10:25	Fine	60.0	62.0	57.0	64	60	70

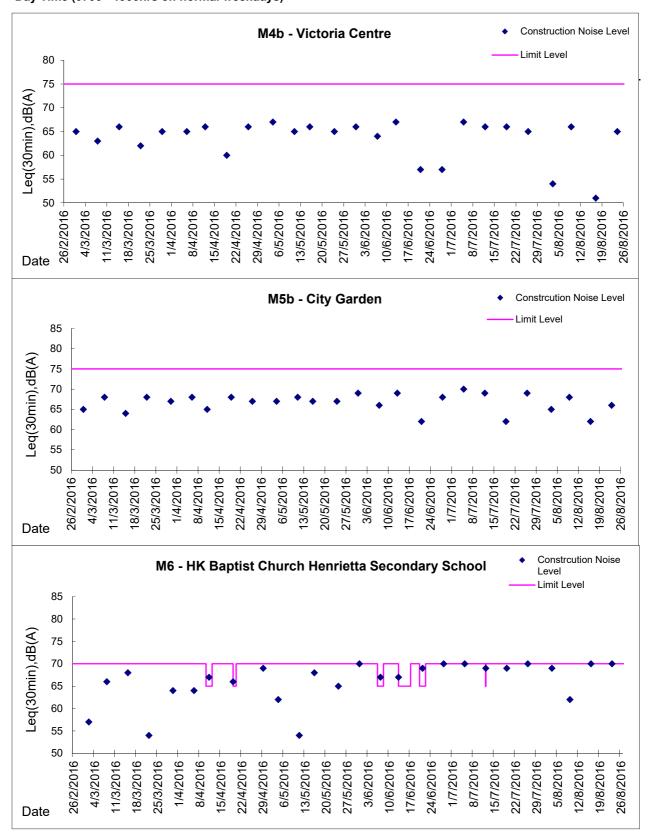


Graphic Presentation of Noise Monitoring Result Day Time (0700 - 1900hrs on normal weekdays)





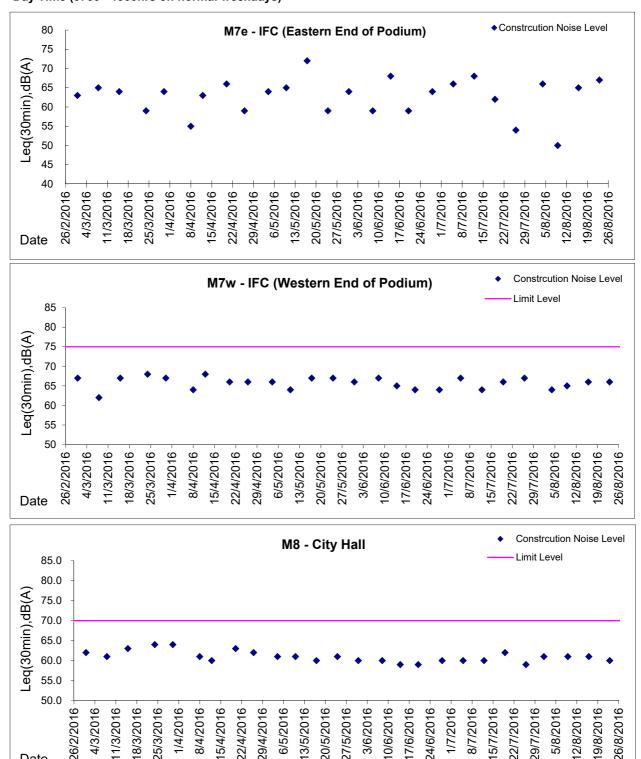
Graphic Presentation of Noise Monitoring Result Day Time (0700 - 1900hrs on normal weekdays)





Date

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



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

# Appendix 5.3

Air Quality Monitoring Results and Graphical Presentations



Location: CMA1b - Oil Street Site Office

Report on 24-hour TSP monitoring Action Level (  $\mu$  g/m3) - 176.7 Limit Level (  $\mu$  g/m3) - 260

Date	Sampling	Weather	Filter paper	Filter Weigh	nt, g	Elapse Time	e, hr	Sampling	Flo	w Rate, m³/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/m³
28-Jul-16	8:00	Fine	16636	2.9000	2.9818	8511.88	8535.88	24.00	1.12	1.12	1.12	1612	50.8
3-Aug-16	8:00	Rainy	16607	2.8527	2.8887	8538.88	8562.88	24.00	1.12	1.12	1.12	1617	22.3
10-Aug-16	15:35	Rainy	16974	2.7197	2.8294	8592.94	8616.94	24.00	1.22	1.23	1.23	1765	62.2
15-Aug-16	8:00	Rainy	16982	2.7335	2.8304	8616.94	8640.94	24.00	1.12	1.12	1.12	1609	60.2
20-Aug-16	8:00	Cloudy	16939	2.7676	2.9396	8643.95	8667.95	24.00	1.12	1.12	1.12	1612	106.7
26-Aug-16	8:00	Fine	17062	2.8024	3.0075	8670.95	8694.95	24.00	1.12	1.12	1.12	1609	127.5

Remarks: Due to interruption of electricity, the 24hr TSP was rescheduled from 9 August 2016 to 10 August 2016.

Report on 1-hour TSP monitoring Action Level (  $\mu$  g/m3) - 320.1 Limit Level (  $\mu$  g/m3) - 500

Date	Sampling	Weather	Filter paper	Filter Weigh	nt, g	Elapse Time	e, hr	Sampling	Flo	w Rate, m³/r	min	Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q <sub>si</sub>	Final, $Q_{\text{sf}}$	Average	Volume, m <sup>3</sup>	μg/m³
29-Jul-16	8:25	Fine	16615	2.9014	2.9068	8535.88	8536.88	1.00	1.12	1.12	1.12	67	80.4
29-Jul-16	13:00	Fine	16613	2.8653	2.8750	8536.88	8537.88	1.00	1.12	1.12	1.12	67	144.5
29-Jul-16	16:55	Fine	16609	2.8574	2.8737	8537.88	8538.88	1.00	1.12	1.12	1.12	67	242.8
4-Aug-16	8:50	Rainy	15615	2.8443	2.8484	8562.88	8563.88	1.00	1.12	1.12	1.12	67	60.8
4-Aug-16	10:30	Rainy	15612	2.8352	2.8384	8563.88	8564.88	1.00	1.12	1.12	1.12	67	47.5
4-Aug-16	13:00	Rainy	15609	2.8408	2.8478	8564.88	8565.88	1.00	1.12	1.12	1.12	67	103.8
10-Aug-16	11:00	Rainy	15607	2.8643	2.8801	8589.94	8590.94	1.00	1.23	1.23	1.23	74	214.7
10-Aug-16	13:00	Rainy	16901	2.6553	2.6611	8590.94	8591.94	1.00	1.23	1.23	1.23	74	78.8
10-Aug-16	14:25	Rainy	16900	2.6694	2.6740	8591.94	8592.94	1.00	1.23	1.23	1.23	74	62.5
16-Aug-16	9:05	Rainy	16951	2.7188	2.7248	8640.94	8641.94	1.00	1.12	1.12	1.12	67	89.5
16-Aug-16	10:07	Rainy	16943	2.7463	2.7511	8641.94	8642.94	1.00	1.12	1.12	1.12	67	71.6
16-Aug-16	13:00	Rainy	16915	2.7157	2.7229	8642.94	8643.94	1.00	1.12	1.12	1.12	67	107.4
22-Aug-16	9:30	Fine	17068	2.8150	2.8258	8667.95	8668.95	1.00	1.12	1.12	1.12	67	160.9
22-Aug-16	13:00	Fine	17065	2.8268	2.8501	8668.95	8669.95	1.00	1.22	1.22	1.22	73	317.2
22-Aug-16	16:30	Fine	17064	2.7971	2.8162	8669.95	8670.95	1.00	1.12	1.12	1.12	67	284.6
27-Aug-16	8:45	Cloudy	017059	2.8108	2.8225	8694.95	8695.95	1.00	1.12	1.12	1.12	67	174.5
27-Aug-16	10:15	Cloudy	017056	2.8179	2.8328	8695.95	8696.95	1.00	1.12	1.12	1.12	67	222.2
27-Aug-16	13:00	Cloudy	017053	2.8092	2.8356	8696.95	8697.95	1.00	1.12	1.12	1.12	67	393.7



Location: CMA2a - Causeway Bay Community Centre

Report on 24-hour TSP monitoring Action Level ( $\mu$ g/m3) - 169.5 Limit Level ( $\mu$ g/m3) - 260

Date	Sampling	Weather	Filter paper	Filter Weigh	ilter Weight, g		Elapse Time, hr		Flow Rate, m <sup>3</sup> /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
28-Jul-16	8:00	Fine	16651	2.9040	2.9774	18159.69	18183.69	24.00	1.15	1.15	1.15	1653	44.4
3-Aug-16	8:00	Rainy	16618	2.8923	2.9412	18186.69	18210.69	24.00	1.09	1.09	1.09	1571	31.1
9-Aug-16	8:00	Rainy	16584	2.8628	2.9580	18213.69	18237.69	24.00	1.08	1.09	1.09	1565	60.8
15-Aug-16	8:00	Rainy	16972	2.7217	2.7627	18240.69	18264.69	24.00	1.09	1.08	1.08	1562	26.2
20-Aug-16	8:00	Cloudy	16938	2.7706	2.8249	18267.69	18291.69	24.00	1.09	1.09	1.09	1566	34.7
26-Aug-16	8:00	Fine	17063	2.8188	2.8871	18294.69	18318.69	24.00	1.08	1.08	1.08	1562	43.7

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

Date	Sampling	Weather	Filter paper	Filter Weigh	nt, g	Elapse Time	e, hr	Sampling	Flo	w Rate, m³/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>
29-Jul-16	9:31	Fine	16670	2.9209	2.9273	18183.69	18184.69	1.00	1.09	1.09	1.09	65	98.2
29-Jul-16	13:00	Fine	16627	2.8947	2.9030	18184.69	18185.69	1.00	1.09	1.09	1.09	65	127.3
29-Jul-16	16:58	Fine	16621	2.9176	2.9267	18185.69	18186.69	1.00	1.09	1.09	1.09	65	139.6
4-Aug-16	8:02	Rainy	16496	2.8846	2.8869	18210.69	18211.69	1.00	1.09	1.09	1.09	66	35.1
4-Aug-16	10:31	Rainy	16503	2.8943	2.8988	18211.69	18212.69	1.00	1.09	1.09	1.09	66	68.7
4-Aug-16	13:00	Rainy	16507	2.8828	2.8856	18212.69	18213.69	1.00	1.09	1.09	1.09	66	42.7
10-Aug-16	9:09	Rainy	16508	2.8957	2.9010	18237.69	18238.69	1.00	1.09	1.09	1.09	65	81.1
10-Aug-16	10:49	Rainy	16962	2.7323	2.7360	18238.69	18239.69	1.00	1.09	1.09	1.09	65	56.7
10-Aug-16	13:00	Rainy	16973	2.7161	2.7202	18239.69	18240.69	1.00	1.09	1.09	1.09	65	62.8
16-Aug-16	8:10	Rainy	16953	2.7277	2.7316	18264.69	18265.69	1.00	1.08	1.08	1.08	65	59.9
16-Aug-16	9:12	Rainy	16944	2.7324	2.7348	18265.69	18266.69	1.00	1.08	1.08	1.08	65	36.9
16-Aug-16	10:50	Rainy	16916	2.7148	2.7164	18266.69	18267.69	1.00	1.08	1.08	1.08	65	24.6
22-Aug-16	9:31	Fine	16321	2.7035	2.7073	18291.69	18292.69	1.00	1.09	1.09	1.09	65	58.3
22-Aug-16	13:00	Fine	17080	2.8219	2.8264	18292.69	18293.69	1.00	1.09	1.09	1.09	65	69.1
22-Aug-16	15:00	Fine	17100	2.8029	2.8083	18293.69	18294.69	1.00	1.21	1.21	1.21	72	74.5
27-Aug-16	8:49	Cloudy	017004	2.7344	2.7413	18318.69	18319.69	1.00	1.21	1.21	1.21	72	95.3
27-Aug-16	10:12	Cloudy	017047	2.8112	2.8183	18319.69	18320.69	1.00	1.21	1.21	1.21	72	98.1
27-Aug-16	13:00	Cloudy	016912	2.6750	2.6912	18320.69	18321.69	1.00	1.21	1.21	1.21	72	223.8



Location: CMA3a - CWB PRE Site Office Area

Report on 24-hour TSP monitoring Action Level ( $\mu g/m3$ ) - 171 Limit Level ( $\mu g/m3$ ) - 260

Date	Sampling	Weather	Filter paper	Filter Weigh	ıt, g	Elapse Time	e, hr	Sampling	Flo	w Rate, m³/ı	min	Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q <sub>si</sub>	Final, Q <sub>sf</sub>	Average	Volume, m <sup>3</sup>	μg/m³
28-Jul-16	8:00	Fine	16634	2.9050	2.9925	5634.55	5658.55	24.00	1.16	1.16	1.16	1675	52.2
3-Aug-16	8:00	Rainy	16608	2.8768	2.9088	5661.55	5685.55	24.00	1.03	1.04	1.03	1489	21.5
9-Aug-16	8:00	Rainy	15608	2.8327	2.9878	5688.55	5712.55	24.00	1.16	1.17	1.16	1674	92.6
15-Aug-16	8:00	Rainy	16892	2.6935	2.7604	5715.56	5739.56	24.00	1.03	1.03	1.03	1479	45.2
20-Aug-16	8:00	Cloudy	16923	2.7171	2.8136	5742.57	5766.57	24.00	1.10	1.10	1.10	1580	61.1
27-Aug-16	13:00	Cloudy	17060	2.8137	2.8896	5772.58	5796.58	24.00	1.03	1.03	1.03	1482	51.2

Remarks: Due to interruption of electricity, the 24hr TSP was rescheduled from 26 August 2016 to 27 August 2016.

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

Date	Sampling	Weather	Filter paper	Filter Weigh	nt, g	Elapse Time	e, hr	Sampling	Flo	w Rate, m³/ı	min	Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q <sub>si</sub>	Final, $Q_{sf}$	Average	Volume, m <sup>3</sup>	μg/m³
29-Jul-16	9:10	Fine	16616	2.9092	2.9147	5658.55	5659.55	1.00	1.03	1.03	1.03	62	89.1
29-Jul-16	10:56	Fine	16614	2.8621	2.8674	5659.55	5660.55	1.00	1.03	1.03	1.03	62	85.8
29-Jul-16	16:26	Fine	16610	2.8402	2.8504	5660.55	5661.55	1.00	1.16	1.16	1.16	70	146.2
4-Aug-16	8:35	Rainy	15616	2.8536	2.8556	5685.55	5686.55	1.00	1.10	1.10	1.10	66	30.2
4-Aug-16	10:10	Rainy	15613	2.8411	2.8433	5686.55	5687.55	1.00	1.04	1.04	1.04	62	35.4
4-Aug-16	13:00	Rainy	15610	2.8389	2.8414	5687.55	5688.55	1.00	1.17	1.17	1.17	70	35.6
10-Aug-16	8:40	Rainy	16975	2.7148	2.7208	5712.55	5713.55	1.00	1.17	1.17	1.17	70	85.8
10-Aug-16	10:30	Rainy	16904	2.6506	2.6598	5713.55	5714.55	1.00	1.13	1.13	1.13	68	135.5
10-Aug-16	13:00	Rainy	16902	2.6543	2.6608	5714.55	5715.55	1.00	1.17	1.17	1.17	70	93.0
16-Aug-16	8:45	Rainy	16954	2.7184	2.7217	5739.56	5740.56	1.00	1.03	1.03	1.03	62	53.6
16-Aug-16	9:56	Rainy	16946	2.7388	2.7420	5740.56	5741.56	1.00	1.03	1.03	1.03	62	51.9
16-Aug-16	11:00	Rainy	16924	2.7187	2.7215	5741.56	5742.56	1.00	1.03	1.03	1.03	62	45.4
22-Aug-16	9:15	Fine	17069	2.8255	2.8290	5766.57	5767.57	1.00	1.16	1.16	1.16	70	50.2
22-Aug-16	13:00	Fine	17066	2.8216	2.8239	5767.57	5768.57	1.00	1.13	1.13	1.13	68	34.0
22-Aug-16	16:53	Fine	17101	2.8113	2.8166	5768.57	5769.57	1.00	1.16	1.16	1.16	70	76.0
27-Aug-16	8:03	Cloudy	017072	2.8337	2.8460	5769.58	5770.58	1.00	1.16	1.16	1.16	70	176.6
27-Aug-16	9:55	Cloudy	017057	2.8037	2.8092	5770.58	5771.58	1.00	1.16	1.16	1.16	70	79.0
27-Aug-16	11:00	Cloudy	017054	2.7976	2.8027	5771.58	5772.58	1.00	1.16	1.16	1.16	70	73.2



Location: CMA4a - SPCA

Report on 24-hour TSP monitoring Action Level ( $\mu$ g/m3) - 171.2 Limit Level ( $\mu$ g/m3) - 260

Date	Sampling	Weather	Filter paper	Filter Weigh	ıt, g	Elapse Time	e, hr	Sampling	Flo	w Rate, m³/ı	min	Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q <sub>si</sub>	Final, Q <sub>sf</sub>	Average	Volume, m <sup>3</sup>	μg/m³
28-Jul-16	8:00	Fine	16649	2.9138	2.9570	22418.24	22442.24	24.00	1.14	1.14	1.14	1646	26.2
3-Aug-16	8:00	Rainy	16619	2.9026	2.9537	22445.24	22469.24	24.00	1.17	1.17	1.17	1689	30.3
9-Aug-16	8:00	Rainy	16585	2.8581	2.9887	22472.24	22496.24	24.00	1.14	1.14	1.14	1646	79.3
15-Aug-16	8:00	Rainy	16969	2.7205	2.7592	22499.24	22523.24	24.00	1.14	1.14	1.14	1644	23.5
20-Aug-16	8:00	Cloudy	16922	2.7137	2.8241	22526.24	22550.24	24.00	1.14	1.14	1.14	1647	67.0
26-Aug-16	8:00	Fine	17073	2.8167	2.9125	22553.24	22577.24	24.00	1.14	1.14	1.14	1644	58.3

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

Date	Sampling	Weather	Filter paper	Filter Weigh	ıt, g	Elapse Time	e, hr	Sampling	Flo	w Rate, m³/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>
29-Jul-16	9:16	Fine	16628	2.9106	2.9151	22442.24	22443.24	1.00	1.14	1.14	1.14	69	65.6
29-Jul-16	13:00	Fine	16669	2.9092	2.9157	22443.24	22444.24	1.00	1.17	1.17	1.17	70	92.7
29-Jul-16	16:23	Fine	16622	2.9012	2.9088	22444.24	22445.24	1.00	1.14	1.14	1.14	69	110.8
4-Aug-16	8:03	Rainy	16590	2.8680	2.8690	22469.24	22470.24	1.00	1.20	1.20	1.20	72	13.9
4-Aug-16	10:16	Rainy	16499	2.9155	2.9182	22470.24	22471.24	1.00	1.15	1.15	1.15	69	39.2
4-Aug-16	13:00	Rainy	16506	2.8948	2.8973	22471.24	22472.24	1.00	1.15	1.15	1.15	69	36.3
10-Aug-16	8:43	Rainy	16781	2.8191	2.8227	22496.24	22497.24	1.00	1.14	1.14	1.14	69	52.4
10-Aug-16	10:31	Rainy	16502	2.9250	2.9283	22497.24	22498.24	1.00	1.14	1.14	1.14	69	48.0
10-Aug-16	13:00	Rainy	16960	2.7231	2.7263	22498.24	22499.24	1.00	1.14	1.14	1.14	69	46.6
16-Aug-16	8:15	Rainy	16955	2.7271	2.7303	22523.24	22524.24	1.00	1.14	1.14	1.14	68	46.7
16-Aug-16	9:20	Rainy	16947	2.7308	2.7332	22524.24	22525.24	1.00	1.17	1.17	1.17	70	34.3
16-Aug-16	10:50	Rainy	16925	2.7268	2.7289	22525.24	22526.24	1.00	1.19	1.19	1.19	72	29.3
22-Aug-16	9:12	Fine	16918	2.6920	2.6958	22550.24	22551.24	1.00	1.14	1.14	1.14	69	55.4
22-Aug-16	13:00	Fine	17081	2.8436	2.8465	22551.24	22552.24	1.00	1.14	1.14	1.14	69	42.3
22-Aug-16	14:05	Fine	17102	2.8049	2.8075	22552.24	22553.24	1.00	1.14	1.14	1.14	69	37.9
27-Aug-16	8:35	Cloudy	17005	2.7165	2.7218	22577.24	22578.24	1.00	1.14	1.14	1.14	69	77.4
27-Aug-16	9:57	Cloudy	17048	2.7830	2.7876	22578.24	22579.24	1.00	1.14	1.14	1.14	69	67.2
27-Aug-16	10:59	Cloudy	17044	2.7820	2.7873	22579.24	22580.24	1.00	1.14	1.14	1.14	69	77.4



Location: CMA5b - Pedestrian Plaza

Report on 24-hour TSP monitoring Action Level ( $\mu g/m3$ ) - 181 Limit Level ( $\mu g/m3$ ) - 260

Date	Sampling	Weather	Filter paper	Filter Weigh	nt, g	Elapse Time	e, hr	Sampling	Flo	w Rate, m³/ı	min	Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q <sub>si</sub>	Final, Q <sub>sf</sub>	Average	Volume, m <sup>3</sup>	μg/m³
29-Jul-16	17:25	Fine	16620	2.9090	2.9740	6992.02	7016.02	24.00	0.88	0.88	0.88	1265	51.4
3-Aug-16	8:00	Rainy	16605	2.8536	2.9275	7016.02	7040.02	24.00	0.91	0.88	0.90	1295	57.1
9-Aug-16	8:00	Rainy	16586	2.8758	3.0550	7043.02	7067.02	24.00	0.94	0.94	0.94	1355	132.2
15-Aug-16	8:00	Rainy	16970	2.6981	2.7689	7070.02	7094.02	24.00	0.88	0.88	0.88	1263	56.0
20-Aug-16	8:00	Cloudy	16937	2.7535	2.9296	7097.03	7121.03	24.00	0.94	0.94	0.94	1357	129.8
27-Aug-16	13:26	Cloudy	17042	2.7939	2.9069	7150.49	7174.49	24.00	0.94	0.91	0.93	1333	84.8

Remarks: Due to interruption of electricity, the 24hr TSP was rescheduled from 28 July 2016 and 26 August 2016 to 29 July 2016 and 27 August 2016 respectively.

Report on 1-hour TSP monitoring Action Level ( $\mu$ g/m3) - 332 Limit Level ( $\mu$ g/m3) - 500

Date	Sampling	Weather	Filter paper	Filter Weigh	nt, g	Elapse Tim	e, hr	Sampling	Flo	w Rate, m³/	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-Jul-16	9:03	Fine	16645	2.9115	2.9189	6989.02	6990.02	1.00	0.91	0.91	0.91	55	135.5
29-Jul-16	13:00	Fine	16626	2.8986	2.9102	6990.02	6991.02	1.00	0.91	0.91	0.91	55	212.4
29-Jul-16	15:22	Fine	16623	2.9177	2.9233	6991.02	6992.02	1.00	0.91	0.91	0.91	55	102.5
4-Aug-16	8:30	Rainy	16591	2.8573	2.8606	7040.02	7041.02	1.00	0.88	0.88	0.88	53	62.2
4-Aug-16	10:02	Rainy	16498	2.8934	2.8995	7041.02	7042.02	1.00	0.95	0.95	0.95	57	107.4
4-Aug-16	13:00	Rainy	16505	2.8944	2.8997	7042.02	7043.02	1.00	0.95	0.95	0.95	57	93.3
10-Aug-16	8:29	Rainy	16782	2.8385	2.8424	7067.02	7068.02	1.00	0.88	0.88	0.88	53	73.8
10-Aug-16	10:14	Rainy	16501	2.8987	2.9076	7068.02	7069.02	1.00	0.94	0.94	0.94	57	157.2
10-Aug-16	15:00	Rainy	16965	2.7122	2.7161	7069.02	7070.02	1.00	0.94	0.94	0.94	57	68.9
16-Aug-16	8:10	Rainy	16956	2.7154	2.7200	7094.02	7095.02	1.00	1.00	1.00	1.00	60	76.6
16-Aug-16	9:20	Rainy	16948	2.7260	2.7311	7095.02	7096.02	1.00	0.94	0.94	0.94	56	90.5
16-Aug-16	10:22	Rainy	16940	2.7526	2.7626	7096.02	7097.02	1.00	0.94	0.97	0.95	57	174.6
22-Aug-16	8:53	Fine	17070	2.8247	2.8451	7121.03	7122.03	1.00	1.03	1.03	1.03	62	328.9
22-Aug-16	10:23	Fine	16919	2.6890	2.6940	7122.03	7123.03	1.00	0.88	0.88	0.88	53	94.8
22-Aug-16	13:00	Fine	17095	2.8082	2.8219	7123.03	7124.03	1.00	0.97	0.94	0.96	57	238.8
27-Aug-16	8:13	Cloudy	17006	2.7250	2.7327	7147.49	7148.49	1.00	0.94	0.94	0.94	56	136.6
27-Aug-16	9:46	Cloudy	17049	2.8008	2.8111	7148.49	7149.49	1.00	0.94	0.91	0.92	55	185.8
27-Aug-16	10:49	Cloudy	17045	2.8171	2.8206	7149.49	7150.49	1.00	0.88	0.88	0.88	53	66.5



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	Iter Weight, g		e, hr	Sampling	Flo	w Rate, m³/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/m³
28-Jul-16	8:00	Fine	16662	2.8925	2.9518	19101.65	19125.65	24.00	1.23	1.23	1.23	1771	33.5
3-Aug-16	8:00	Rainy	16684	2.9198	2.9844	19128.65	19152.65	24.00	1.19	1.19	1.19	1717	37.6
9-Aug-16	8:00	Rainy	16492	2.9141	3.0266	19155.65	19179.65	24.00	1.19	1.19	1.19	1713	65.7
16-Aug-16	12:00	Rainy	16929	2.7301	2.7571	19306.64	19330.64	24.00	1.19	1.19	1.19	1711	15.8
22-Aug-16	12:00	Fine	17085	2.8301	2.8972	19333.64	19357.64	24.00	1.19	1.19	1.19	1712	39.2
26-Aug-16	8:00	Fine	17075	2.8072	2.9078	19357.65	19381.65	24.00	1.19	1.19	1.19	1711	58.8

Remarks: Due to interruption of electricity, the 24hr TSP was rescheduled from 15, 20 August 2016 to 16 and 22 August 2016 respectively.

Report on 1-hour TSP monitoring

Action Level ( $\mu$ g/m3) - 325.1 Limit Level ( $\mu$ g/m3) - 500

			Filter paper										
Date	Sampling	Weather	no.	Filter Weigh	nt, g	Elapse Time	e, hr	Sampling	Flo	w Rate, m³/ı	min	Total	TSP Leve
	Time	Condition		Initial	Final	İnitial	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-Jul-16	8:03	Fine	16675	2.9256	2.9285	19125.65	19126.65	1.00	1.19	1.19	1.19	71	40.6
29-Jul-16	9:10	Fine	16674	2.9155	2.9165	19126.65	19127.65	1.00	1.19	1.19	1.19	71	14.0
29-Jul-16	10:15	Fine	16673	2.9101	2.9128	19127.65	19128.65	1.00	1.19	1.19	1.19	71	37.8
4-Aug-16	8:02	Rainy	16483	2.9321	2.9348	19152.65	19153.65	1.00	1.19	1.19	1.19	72	37.7
4-Aug-16	9:04	Rainy	16486	2.9357	2.9367	19153.65	19154.65	1.00	1.19	1.19	1.19	72	14.0
4-Aug-16	10:06	Rainy	16489	2.8973	2.8992	19154.65	19155.65	1.00	1.19	1.19	1.19	72	26.5
10-Aug-16	8:02	Rainy	16495	2.8988	2.9016	19179.65	19180.65	1.00	1.19	1.19	1.19	71	39.2
10-Aug-16	9:04	Rainy	16896	2.6758	2.6790	19180.65	19181.65	1.00	1.19	1.19	1.19	71	44.8
10-Aug-16	10:06	Rainy	16893	2.7001	2.7047	19181.65	19182.65	1.00	1.19	1.19	1.19	71	64.4
16-Aug-16	8:00	Rainy	16957	2.7284	2.7304	19303.64	19304.64	1.00	1.19	1.19	1.19	71	28.1
16-Aug-16	9:03	Rainy	16935	2.7414	2.7443	19304.64	19305.64	1.00	1.19	1.19	1.19	71	40.7
16-Aug-16	10:09	Rainy	16932	2.7503	2.7519	19305.64	19306.64	1.00	1.19	1.19	1.19	71	22.4
22-Aug-16	8:00	Fine	17094	2.7868	2.7888	19330.64	19331.64	1.00	1.19	1.19	1.19	71	28.0
22-Aug-16	9:02	Fine	17091	2.8120	2.8134	19331.64	19332.64	1.00	1.19	1.19	1.19	71	19.6
22-Aug-16	10:04	Fine	17088	2.8156	2.8176	19332.64	19333.64	1.00	1.19	1.19	1.19	71	28.0
27-Aug-16	8:02	Cloudy	17082	2.8469	2.8522	19381.65	19382.65	1.00	1.19	1.19	1.19	71	74.3
27-Aug-16	9:04	Cloudy	17017	2.8267	2.8305	19382.65	19383.65	1.00	1.19	1.19	1.19	71	53.3
27-Aug-16	10:07	Cloudy	17014	2.7265	2.7314	19383.65	19384.65	1.00	1.19	1.19	1.19	71	68.7



Location: MA1w - International Finance Centre (Western Wing)

Report on 24-hour TSP monitoring 173.4

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

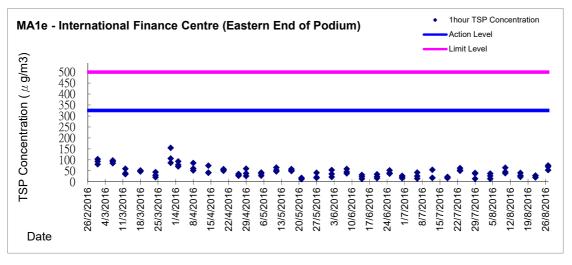
Date	Sampling	Weather	Filter paper	Filter Weigh	nt, g	Elapse Time	e, hr	Sampling	Flo	w Rate, m³/ı	min	Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q <sub>si</sub>	Final, Q <sub>sf</sub>	Average	Volume, m <sup>3</sup>	μg/m³
28-Jul-16	8:00	Fine	16661	2.8894	2.9335	19127.16	19151.16	24.00	1.20	1.20	1.20	1731	25.5
3-Aug-16	8:00	Rainy	16683	2.9076	2.9624	19154.16	19178.16	24.00	1.20	1.21	1.21	1736	31.6
9-Aug-16	8:00	Rainy	16493	2.9178	3.0657	19181.16	19205.16	24.00	1.20	1.20	1.20	1730	85.5
15-Aug-16	8:00	Rainy	16908	2.6833	2.7166	19208.16	19232.16	24.00	1.20	1.20	1.20	1729	19.3
20-Aug-16	8:00	Cloudy	16928	2.7178	2.8296	19235.16	19259.16	24.00	1.20	1.20	1.20	1731	64.6
26-Aug-16	8:00	Fine	17084	2.8214	2.9229	19262.16	19286.16	24.00	1.20	1.20	1.20	1728	58.7

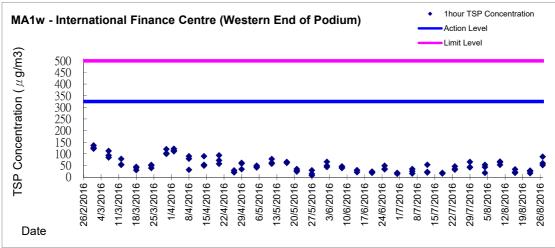
Report on 1-hour TSP monitoring
Action Level (μg/m3) - 325.1 Limit Level (µg/m3) -500

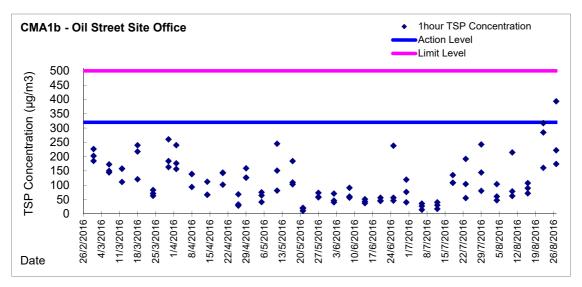
Date	Sampling	Weather	Filter paper	Filter Weigh	nt, g	Elapse Tim	e, hr	Sampling	Flo	w Rate, m³/r	min	Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q <sub>si</sub>	Final, Q <sub>sf</sub>	Average	Volume, m <sup>3</sup>	μg/m <sup>3</sup>
29-Jul-16	8:05	Fine	16672	2.9016	2.9046	19151.16	19152.16	1.00	1.20	1.20	1.20	72	41.6
29-Jul-16	9:15	Fine	15750	2.8376	2.8407	19152.16	19153.16	1.00	1.20	1.20	1.20	72	43.0
29-Jul-16	10:20	Fine	16446	2.8816	2.8863	19153.16	19154.16	1.00	1.20	1.20	1.20	72	65.2
4-Aug-16	8:05	Rainy	16484	2.9093	2.9124	19178.16	19179.16	1.00	1.21	1.21	1.21	72	42.8
4-Aug-16	9:07	Rainy	16487	2.9227	2.9240	19179.16	19180.16	1.00	1.21	1.21	1.21	72	18.0
4-Aug-16	10:09	Rainy	16490	2.9017	2.9055	19180.16	19181.16	1.00	1.21	1.21	1.21	72	52.5
10-Aug-16	8:05	Rainy	16898	2.6704	2.6750	19205.16	19206.16	1.00	1.20	1.20	1.20	72	63.7
10-Aug-16	9:07	Rainy	16895	2.6829	2.6877	19206.16	19207.16	1.00	1.20	1.20	1.20	72	66.5
10-Aug-16	10:09	Rainy	16911	2.7004	2.7042	19207.16	19208.16	1.00	1.20	1.20	1.20	72	52.6
16-Aug-16	8:05	Rainy	16926	2.7332	2.7356	19232.16	19233.16	1.00	1.20	1.20	1.20	72	33.3
16-Aug-16	9:07	Rainy	16934	2.7349	2.7364	19233.16	19234.16	1.00	1.20	1.20	1.20	72	20.8
16-Aug-16	10:09	Rainy	16931	2.7227	2.7240	19234.16	19235.16	1.00	1.20	1.20	1.20	72	18.1
22-Aug-16	8:05	Fine	17093	2.7861	2.7873	19259.16	19260.16	1.00	1.20	1.20	1.20	72	16.6
22-Aug-16	9:07	Fine	17090	2.8141	2.8159	19260.16	19261.16	1.00	1.20	1.20	1.20	72	25.0
22-Aug-16	10:09	Fine	17087	2.8287	2.8307	19261.16	19262.16	1.00	1.20	1.20	1.20	72	27.7
27-Aug-16	8:05	Cloudy	17019	2.8306	2.8343	19286.16	19287.16	1.00	1.20	1.20	1.20	72	51.4
27-Aug-16	9:07	Cloudy	17016	2.8305	2.8348	19287.16	19288.16	1.00	1.20	1.20	1.20	72	59.7
27-Aug-16	10:09	Cloudy	17013	2.7091	2.7154	19288.16	19289.16	1.00	1.20	1.20	1.20	72	87.5



**Graphic Presentation of 1 hour TSP Result** 

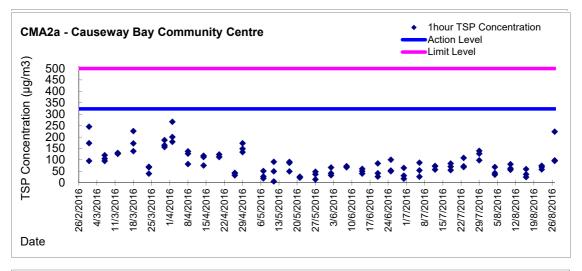


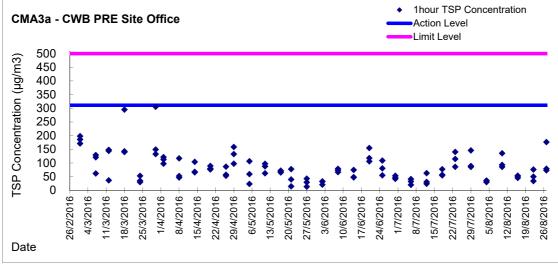


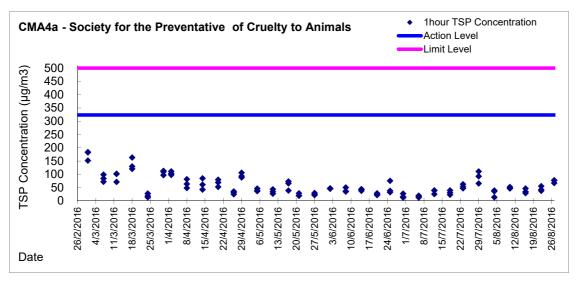




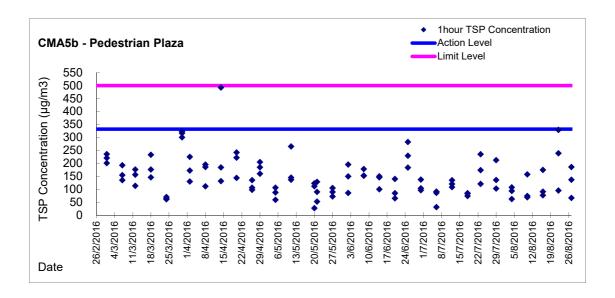
**Graphic Presentation of 1 hour TSP Result** 





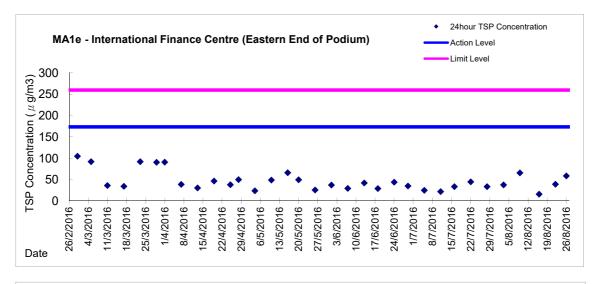


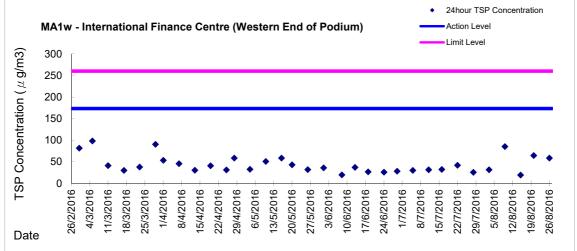
**Graphic Presentation of 1 hour TSP Result** 

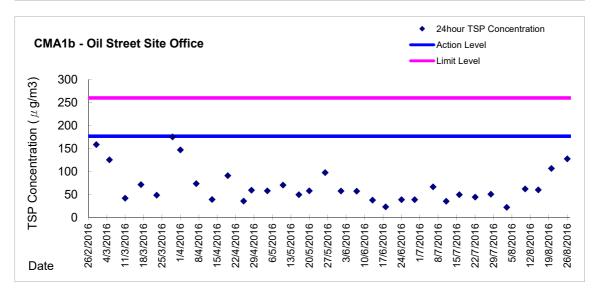




**Graphic Presentation of 24 hour TSP Result** 

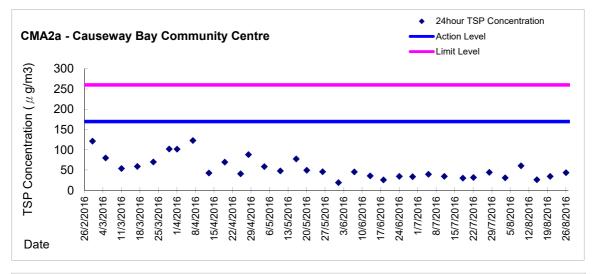


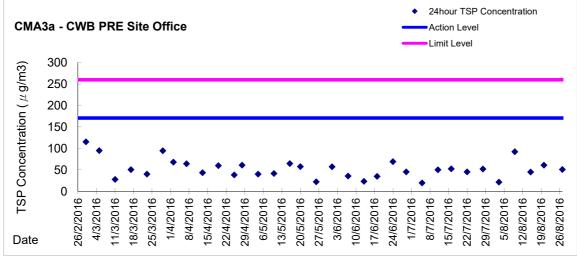


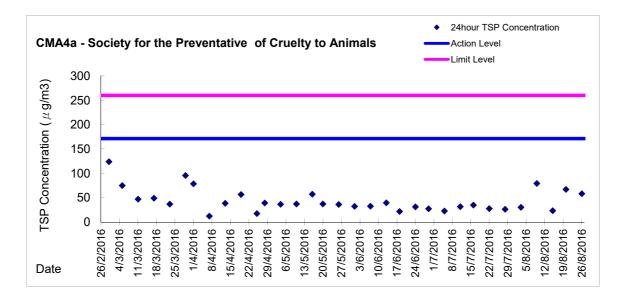




**Graphic Presentation of 24 hour TSP Result** 

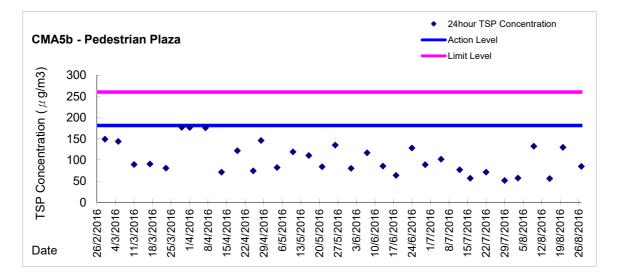








**Graphic Presentation of 24 hour TSP Result** 



# Appendix 5.4

Real Time Noise Monitoring Results and Graphical Presentations

Real time Naise Date	DTN1 /Food and Environmental I	Jugiona Danartmant Danat)			
Real-time Noise Data Normal Day 07:00-19:00	RTN1 (Food and Environmental I 1/8/2016 12:31 67	6/8/2016 7:01 65	11/8/2016 13:31 68	17/8/2016 8:01 67	22/8/2016 14:31 66
27/7/2016 7:01 66	1/8/2016 13:01 67	6/8/2016 7:31 66	11/8/2016 14:01 67	17/8/2016 8:31 67	22/8/2016 15:01 66
	1/8/2016 13:31 68	6/8/2016 8:01 67	11/8/2016 14:31 67	17/8/2016 9:01 66	22/8/2016 15:31 67
27/7/2016 7:31 67	1/8/2016 14:01 67	6/8/2016 8:31 67	11/8/2016 15:01 67	17/8/2016 9:31 66	22/8/2016 16:01 67
27/7/2016 8:01 67	1/8/2016 14:31 68	6/8/2016 9:01 67	11/8/2016 15:31 67	17/8/2016 10:01 66	22/8/2016 16:31 67
27/7/2016 8:31 67	1/8/2016 15:01 67	6/8/2016 9:31 67	11/8/2016 16:01 67	17/8/2016 10:31 65	22/8/2016 17:01 67
27/7/2016 9:01 66	1/8/2016 15:31 67	6/8/2016 10:01 67	11/8/2016 16:31 68	17/8/2016 11:01 67	22/8/2016 17:31 67
27/7/2016 9:31 67	1/8/2016 16:01 68	6/8/2016 10:31 67	11/8/2016 17:01 67	17/8/2016 11:31 67	22/8/2016 18:01 67
27/7/2016 9:31 67 27/7/2016 10:01 67	1/8/2016 16:31 68	6/8/2016 10:31 67 6/8/2016 11:01 67	11/8/2016 17:01 67 11/8/2016 17:31 67	17/8/2016 11:31 67 17/8/2016 12:01 66	22/8/2016 18:31 66
27/7/2016 10:31 67	1/8/2016 17:01 67	6/8/2016 11:31 67	11/8/2016 18:01 67	17/8/2016 12:31 67	23/8/2016 7:01 65
27/7/2016 11:01 67	1/8/2016 17:31 67	6/8/2016 12:01 67	11/8/2016 18:31 67	17/8/2016 13:01 68	23/8/2016 7:31 66
27/7/2016 11:31 67	1/8/2016 18:01 67	6/8/2016 12:31 67	12/8/2016 7:01 66	17/8/2016 13:31 67	23/8/2016 8:01 67
27/7/2016 12:01 66	1/8/2016 18:31 67	6/8/2016 13:01 67	12/8/2016 7:31 66	17/8/2016 14:01 67	23/8/2016 8:31 66
27/7/2016 12:31 67	2/8/2016 7:01 66	6/8/2016 13:31 67	12/8/2016 8:01 67	17/8/2016 14:31 67	23/8/2016 9:01 67
27/7/2016 13:01 67	2/8/2016 7:31 67	6/8/2016 14:01 67	12/8/2016 8:31 67	17/8/2016 15:01 67	23/8/2016 9:31 67
27/7/2016 13:31 67	2/8/2016 8:01 66	6/8/2016 14:31 66	12/8/2016 9:01 67	17/8/2016 15:31 67	23/8/2016 10:01 67
27/7/2016 14:01 67	2/8/2016 8:31 65	6/8/2016 15:01 67	12/8/2016 9:31 67	17/8/2016 16:01 67	23/8/2016 10:31 67
27/7/2016 14:31 67	2/8/2016 9:01 65	6/8/2016 15:31 67	12/8/2016 10:01 67	17/8/2016 16:31 67	23/8/2016 11:01 66
27/7/2016 15:01 67	2/8/2016 9:31 65	6/8/2016 16:01 66	12/8/2016 10:31 67	17/8/2016 17:01 67	23/8/2016 11:31 66
27/7/2016 15:31 67	2/8/2016 10:01 65	6/8/2016 16:31 67	12/8/2016 11:01 67	17/8/2016 17:31 67	23/8/2016 12:01 67
27/7/2016 16:01 67	2/8/2016 10:31 64	6/8/2016 17:01 68	12/8/2016 11:31 68	17/8/2016 18:01 67	23/8/2016 12:31 67
27/7/2016 16:31 67	2/8/2016 11:01 65	6/8/2016 17:31 67	12/8/2016 12:01 66	17/8/2016 18:31 66	23/8/2016 13:01 67
27/7/2016 17:01 67	2/8/2016 11:31 66	6/8/2016 18:01 66	12/8/2016 12:31 67	18/8/2016 7:01 67	23/8/2016 13:31 67
27/7/2016 17:31 67	2/8/2016 12:01 66	6/8/2016 18:31 66	12/8/2016 13:01 67	18/8/2016 7:31 69	23/8/2016 14:01 67
27/7/2016 18:01 67	2/8/2016 12:31 67	8/8/2016 7:01 65	12/8/2016 13:31 68	18/8/2016 8:01 66	23/8/2016 14:31 67
27/7/2016 18:31 67	2/8/2016 13:01 68	8/8/2016 7:31 67	12/8/2016 14:01 67	18/8/2016 8:31 65	23/8/2016 15:01 67
28/7/2016 7:01 65	2/8/2016 13:31 67	8/8/2016 8:01 67	12/8/2016 14:31 67	18/8/2016 9:01 66	23/8/2016 15:31 67
28/7/2016 7:31 67	2/8/2016 14:01 67	8/8/2016 8:31 66	12/8/2016 15:01 67	18/8/2016 9:31 65	23/8/2016 16:01 67
28/7/2016 8:01 67	2/8/2016 14:31 68	8/8/2016 9:01 67	12/8/2016 15:31 67	18/8/2016 10:01 66	23/8/2016 16:31 67
28/7/2016 8:31 67	2/8/2016 15:01 68	8/8/2016 9:31 67	12/8/2016 16:01 67	18/8/2016 10:31 67	23/8/2016 17:01 67
28/7/2016 9:01 67	2/8/2016 15:31 68	8/8/2016 10:01 67	12/8/2016 16:31 67	18/8/2016 11:01 67	23/8/2016 17:31 66
28/7/2016 9:31 67	2/8/2016 16:01 68	8/8/2016 10:31 67	12/8/2016 17:01 67	18/8/2016 11:31 66	23/8/2016 18:01 66
28/7/2016 9:31 67 28/7/2016 10:01 67	2/8/2016 16:01 68 2/8/2016 16:31 67	8/8/2016 11:01 67	12/8/2016 17:31 68	18/8/2016 12:01 65	23/8/2016 18:31 66
28/7/2016 10:31 68	2/8/2016 17:01 67	8/8/2016 11:31 67	12/8/2016 18:01 66	18/8/2016 12:31 65	24/8/2016 7:01 65
28/7/2016 11:01 67	2/8/2016 17:31 67	8/8/2016 12:01 67	12/8/2016 18:31 65	18/8/2016 13:01 66	24/8/2016 7:31 66
28/7/2016 11:31 67	2/8/2016 18:01 67	8/8/2016 12:31 67	13/8/2016 7:01 65	18/8/2016 13:31 68	24/8/2016 8:01 67
28/7/2016 12:01 67	2/8/2016 18:31 67	8/8/2016 13:01 67	13/8/2016 7:31 66	18/8/2016 14:01 67	24/8/2016 8:31 66
28/7/2016 12:31 67	3/8/2016 7:01 66	8/8/2016 13:31 67	13/8/2016 8:01 67	18/8/2016 14:31 66	24/8/2016 9:01 67
28/7/2016 13:01 67	3/8/2016 7:31 67	8/8/2016 14:01 67	13/8/2016 8:31 67	18/8/2016 15:01 67	24/8/2016 9:31 67
28/7/2016 13:31 68	3/8/2016 8:01 67	8/8/2016 14:31 66	13/8/2016 9:01 67	18/8/2016 15:31 67	24/8/2016 10:01 67
28/7/2016 14:01 67	3/8/2016 8:31 67	8/8/2016 15:01 67	13/8/2016 9:31 67	18/8/2016 16:01 67	24/8/2016 10:31 67
28/7/2016 14:31 67	3/8/2016 9:01 67	8/8/2016 15:31 67	13/8/2016 10:01 67	18/8/2016 16:31 67	24/8/2016 11:01 67
28/7/2016 15:01 67	3/8/2016 9:31 67	8/8/2016 16:01 67	13/8/2016 10:31 67	18/8/2016 17:01 68	24/8/2016 11:31 66
28/7/2016 15:31 67	3/8/2016 10:01 67	8/8/2016 16:31 67	13/8/2016 11:01 68	18/8/2016 17:31 68	24/8/2016 12:01 66
28/7/2016 16:01 68	3/8/2016 10:31 67	8/8/2016 17:01 67	13/8/2016 11:31 66	18/8/2016 18:01 67	24/8/2016 12:31 66
28/7/2016 16:31 68	3/8/2016 11:01 68	8/8/2016 17:31 67	13/8/2016 12:01 66	18/8/2016 18:31 66	24/8/2016 13:01 66
28/7/2016 17:01 67	3/8/2016 11:31 67	8/8/2016 18:01 67	13/8/2016 12:31 66	19/8/2016 7:01 66	24/8/2016 13:31 67
28/7/2016 17:31 67	3/8/2016 12:01 68	8/8/2016 18:31 66	13/8/2016 13:01 67	19/8/2016 7:31 67	24/8/2016 14:01 66
28/7/2016 18:01 67	3/8/2016 12:31 68	9/8/2016 7:01 65	13/8/2016 13:31 67	19/8/2016 8:01 67	24/8/2016 14:31 66
28/7/2016 18:31 66	3/8/2016 13:01 67	9/8/2016 7:31 66	13/8/2016 14:01 67	19/8/2016 8:31 67	24/8/2016 15:01 66
29/7/2016 7:01 65	3/8/2016 13:31 68	9/8/2016 8:01 67	13/8/2016 14:31 66	19/8/2016 9:01 67	24/8/2016 15:31 66
29/7/2016 7:31 67	3/8/2016 14:01 67	9/8/2016 8:31 67	13/8/2016 15:01 66	19/8/2016 9:31 67	24/8/2016 16:01 66
29/7/2016 8:01 67	3/8/2016 14:31 68	9/8/2016 9:01 67	13/8/2016 15:31 66	19/8/2016 10:01 68	24/8/2016 16:31 66
29/7/2016 8:31 67	3/8/2016 15:01 68	9/8/2016 9:31 67	13/8/2016 16:01 66	19/8/2016 10:31 67	24/8/2016 17:01 67
29/7/2016 9:01 67	3/8/2016 15:31 67	9/8/2016 10:01 67	13/8/2016 16:31 66	19/8/2016 11:01 67	24/8/2016 17:31 67
29/7/2016 9:31 67	3/8/2016 16:01 68	9/8/2016 10:31 67	13/8/2016 17:01 67	19/8/2016 11:31 68	24/8/2016 18:01 66
29/7/2016 10:01 67	3/8/2016 16:31 68	9/8/2016 11:01 67	13/8/2016 17:31 68	19/8/2016 12:01 67	24/8/2016 18:31 66
29/7/2016 10:31 67	3/8/2016 17:01 67	9/8/2016 11:31 67	13/8/2016 18:01 66	19/8/2016 12:31 67	25/8/2016 7:01 65
29/7/2016 11:01 67	3/8/2016 17:31 68	9/8/2016 12:01 79	13/8/2016 18:31 66	19/8/2016 13:01 68	25/8/2016 7:31 66
29/7/2016 11:31 67	3/8/2016 18:01 67	9/8/2016 12:31 82	15/8/2016 7:01 65	19/8/2016 13:31 67	25/8/2016 8:01 67
29/7/2016 12:01 67	3/8/2016 18:31 67	9/8/2016 13:01 68	15/8/2016 7:31 66	19/8/2016 14:01 67	25/8/2016 8:31 66
29/7/2016 12:31 67	4/8/2016 7:01 65	9/8/2016 13:31 68	15/8/2016 8:01 67	19/8/2016 14:31 67	25/8/2016 9:01 66
29/7/2016 13:01 67	4/8/2016 7:31 66	9/8/2016 14:01 67	15/8/2016 8:31 66	19/8/2016 15:01 67	25/8/2016 9:31 67
29/7/2016 13:31 68	4/8/2016 8:01 67	9/8/2016 14:31 67	15/8/2016 9:01 66	19/8/2016 15:31 66	25/8/2016 10:01 67
29/7/2016 14:01 67	4/8/2016 8:31 66	9/8/2016 15:01 67	15/8/2016 9:31 67	19/8/2016 16:01 67	25/8/2016 10:31 67
29/7/2016 14:31 67	4/8/2016 9:01 66	9/8/2016 15:31 68	15/8/2016 10:01 67	19/8/2016 16:31 67	25/8/2016 11:01 67
29/7/2016 15:01 67	4/8/2016 9:31 67	9/8/2016 16:01 67	15/8/2016 10:31 67	19/8/2016 17:01 67	25/8/2016 11:31 67
29/7/2016 15:31 67	4/8/2016 10:01 67	9/8/2016 16:31 67	15/8/2016 11:01 67	19/8/2016 17:31 69	25/8/2016 12:01 66
29/7/2016 16:01 67	4/8/2016 10:31 67	9/8/2016 17:01 67	15/8/2016 11:31 67	19/8/2016 18:01 68	25/8/2016 12:31 66
29/7/2016 16:31 67	4/8/2016 11:01 67	9/8/2016 17:31 67	15/8/2016 12:01 67	19/8/2016 18:31 66	25/8/2016 13:01 66
29/7/2016 17:01 67	4/8/2016 11:31 67	9/8/2016 18:01 67	15/8/2016 12:31 67	20/8/2016 7:01 65	25/8/2016 13:31 66
29/7/2016 17:31 67	4/8/2016 12:01 66	9/8/2016 18:31 67	15/8/2016 13:01 67	20/8/2016 7:31 66	25/8/2016 14:01 66
29/7/2016 18:01 66	4/8/2016 12:31 68	10/8/2016 7:01 70	15/8/2016 13:31 67	20/8/2016 8:01 68	25/8/2016 14:31 66
29/7/2016 18:31 65	4/8/2016 13:01 70	10/8/2016 7:31 68	15/8/2016 14:01 68	20/8/2016 8:31 68	25/8/2016 15:01 66
30/7/2016 7:01 65	4/8/2016 13:31 68	10/8/2016 8:01 71	15/8/2016 14:31 68	20/8/2016 9:01 67	25/8/2016 15:31 66
30/7/2016 7:31 66	4/8/2016 14:01 67	10/8/2016 8:31 68	15/8/2016 15:01 68	20/8/2016 9:31 67	25/8/2016 16:01 67
30/7/2016 8:01 67	4/8/2016 14:31 67	10/8/2016 9:01 68	15/8/2016 15:31 67	20/8/2016 10:01 67	25/8/2016 16:31 66
30/7/2016 8:31 68	4/8/2016 15:01 67	10/8/2016 9:31 68	15/8/2016 16:01 67	20/8/2016 10:31 67	25/8/2016 17:01 66
30/7/2016 9:01 67	4/8/2016 15:31 67	10/8/2016 10:01 69	15/8/2016 16:31 70	20/8/2016 11:01 67	25/8/2016 17:31 66
30/7/2016 9:31 67	4/8/2016 16:01 67	10/8/2016 10:31 69	15/8/2016 17:01 68	20/8/2016 11:31 67	25/8/2016 18:01 66
30/7/2016 10:01 67	4/8/2016 16:31 67	10/8/2016 11:01 68	15/8/2016 17:31 68	20/8/2016 12:01 66	25/8/2016 18:31 66
30/7/2016 10:31 67	4/8/2016 17:01 67	10/8/2016 11:31 68	15/8/2016 18:01 67	20/8/2016 12:31 66	26/8/2016 7:01 65
30/7/2016 11:01 67	4/8/2016 17:31 68	10/8/2016 12:01 67	15/8/2016 18:31 67	20/8/2016 13:01 66	26/8/2016 7:31 66
30/7/2016 11:31 67	4/8/2016 18:01 67	10/8/2016 12:31 68	16/8/2016 7:01 68	20/8/2016 13:31 67	26/8/2016 8:01 66
30/7/2016 12:01 67	4/8/2016 18:31 67	10/8/2016 13:01 68	16/8/2016 7:31 69	20/8/2016 14:01 66	26/8/2016 8:31 66
30/7/2016 12:31 67	5/8/2016 7:01 66	10/8/2016 13:31 68	16/8/2016 8:01 68	20/8/2016 14:31 66	26/8/2016 9:01 66
30/7/2016 13:01 67	5/8/2016 7:31 67	10/8/2016 14:01 68	16/8/2016 8:31 68	20/8/2016 15:01 66	26/8/2016 9:31 67
30/7/2016 13:31 67	5/8/2016 8:01 67	10/8/2016 14:31 68	16/8/2016 9:01 68	20/8/2016 15:31 66	26/8/2016 10:01 67
30/7/2016 14:01 67	5/8/2016 8:31 67	10/8/2016 15:01 68	16/8/2016 9:31 68	20/8/2016 16:01 67	26/8/2016 10:31 68
30/7/2016 14:31 67	5/8/2016 9:01 67	10/8/2016 15:31 68	16/8/2016 10:01 68	20/8/2016 16:31 67	26/8/2016 11:01 67
30/7/2016 15:01 67	5/8/2016 9:31 67	10/8/2016 16:01 68	16/8/2016 10:31 67	20/8/2016 17:01 66	26/8/2016 11:31 67
30/7/2016 15:31 66	5/8/2016 10:01 67	10/8/2016 16:31 68	16/8/2016 11:01 67	20/8/2016 17:31 67	26/8/2016 12:01 66
30/7/2016 16:01 66	5/8/2016 10:31 67	10/8/2016 17:01 68	16/8/2016 11:31 67	20/8/2016 18:01 66	26/8/2016 12:31 66
30/7/2016 16:31 67	5/8/2016 11:01 67	10/8/2016 17:31 67	16/8/2016 12:01 67	20/8/2016 18:31 66	26/8/2016 13:01 66
30/7/2016 17:01 67	5/8/2016 11:31 67	10/8/2016 18:01 66	16/8/2016 12:31 68	22/8/2016 7:01 66	26/8/2016 13:31 66
30/7/2016 17:31 68	5/8/2016 12:01 67	10/8/2016 18:31 66	16/8/2016 13:01 68	22/8/2016 7:31 66	26/8/2016 14:01 67
30/7/2016 18:01 66	5/8/2016 12:31 67	11/8/2016 7:01 65	16/8/2016 13:31 68	22/8/2016 8:01 67	26/8/2016 14:31 66
30/7/2016 18:31 66	5/8/2016 13:01 67	11/8/2016 7:31 67	16/8/2016 14:01 67	22/8/2016 8:31 66	26/8/2016 15:01 66
1/8/2016 7:01 65	5/8/2016 13:31 67	11/8/2016 8:01 68	16/8/2016 14:31 67	22/8/2016 9:01 66	26/8/2016 15:31 66
1/8/2016 7:31 67	5/8/2016 14:01 67	11/8/2016 8:31 67	16/8/2016 15:01 67	22/8/2016 9:31 67	26/8/2016 16:01 66
1/8/2016 8:01 67	5/8/2016 14:31 67	11/8/2016 9:01 68	16/8/2016 15:31 67	22/8/2016 10:01 67	26/8/2016 16:31 67
1/8/2016 8:31 67	5/8/2016 15:01 67	11/8/2016 9:31 69	16/8/2016 16:01 68	22/8/2016 10:31 67	26/8/2016 17:01 67
1/8/2016 9:01 67	5/8/2016 15:31 67	11/8/2016 10:01 68	16/8/2016 16:31 68	22/8/2016 11:01 67	26/8/2016 17:31 67
1/8/2016 9:31 67	5/8/2016 16:01 68	11/8/2016 10:31 68	16/8/2016 17:01 68	22/8/2016 11:31 67	26/8/2016 18:01 66
1/8/2016 10:01 67	5/8/2016 16:31 68	11/8/2016 11:01 69	16/8/2016 17:31 68	22/8/2016 12:01 67	26/8/2016 18:31 65
1/8/2016 10:31 68	5/8/2016 17:01 67	11/8/2016 11:31 67	16/8/2016 18:01 67	22/8/2016 12:31 67	
1/8/2016 11:01 67	5/8/2016 17:31 67	11/8/2016 12:01 67	16/8/2016 18:31 66	22/8/2016 13:01 67	
1/8/2016 11:31 67	5/8/2016 18:01 68	11/8/2016 12:31 67	17/8/2016 7:01 66	22/8/2016 13:31 67	
1/8/2016 12:01 67	5/8/2016 18:31 66	11/8/2016 13:01 68	17/8/2016 7:31 67	22/8/2016 14:01 67	l

Paul tima Naisa Data	DTN1 /Food and Environmental L	Avgiana Danartment Danat)			
Real-time Noise Data Normal Day 19:00-23:00,	RTN1 (Food and Environmental F 29/7/2016 19:51 64	31/7/2016 8:56 65	31/7/2016 18:01 66	2/8/2016 19:06 66	4/8/2016 20:11 66
Sunday & Holiday	29/7/2016 19:56 64	31/7/2016 9:01 65	31/7/2016 18:06 65	2/8/2016 19:11 66	4/8/2016 20:16 66
07:00-23:00	29/7/2016 20:01 64	31/7/2016 9:06 65	31/7/2016 18:11 66	2/8/2016 19:16 66	4/8/2016 20:21 66
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Real-time Noise Data 6/8/2016 21:16 65	RTN1 (Food and Environmental F 7/8/2016 14:21 65	8/8/2016 19:26 67	10/8/2016 20:31 66	12/8/2016 21:36 66	14/8/2016 10:41 65
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Real-time Noise Data	RTN1 (Food and Environmental F	lygiene Department Depot)			
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Real-time Noise Data	RTN1 (Food and Environmental H	lygiene Department Depot)			
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Real-time Noise Data 8/8/2016 4:01 60	RTN1 (Food and Environmental F 9/8/2016 5:06 61	lygiene Department Depot) 10/8/2016 6:11 52	11/8/2016 23:16 62	13/8/2016 0:21 60	14/8/2016 1:26 56
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1/8/2016 7:01         61         5/8/2016 13:31         63         11/8/2016 8:01         64         16/8/2016 14:31         67         22/8/2016 9:01         67         26/8/2016 15:31         65           1/8/2016 8:01         66         5/8/2016 14:31         60         11/8/2016 9:01         58         16/8/2016 15:01         66         22/8/2016 9:31         55         26/8/2016 16:01         67           1/8/2016 8:31         64         5/8/2016 15:01         62         11/8/2016 9:31         59         16/8/2016 16:01         67         22/8/2016 10:31         58         26/8/2016 17:01         43           1/8/2016 9:31         64         5/8/2016 15:31         60         11/8/2016 9:31         59         16/8/2016 16:01         67         22/8/2016 10:31         58         26/8/2016 17:01         43           1/8/2016 9:31         64         5/8/2016 15:31         60         11/8/2016 10:01         67         22/8/2016 11:01         67         22/8/2016 11:01         67         22/8/2016 11:01         67         26/8/2016 17:01         43           1/8/2016 10:01         65         5/8/2016 16:31         57         11/8/2016 11:01         60         11/8/2016 17:01         60         22/8/2016 17:01         62         22/8/2016 18:01         64	30/7/2016 18:01 64	5/8/2016 12:31 63	11/8/2016 7:01 60	16/8/2016 13:31 67	22/8/2016 8:01 66	26/8/2016 14:31 63
1/8/2016 8:01         66         5/8/2016 14:31         60         11/8/2016 9:01         58         16/8/2016 15:31         61         22/8/2016 10:01         52         26/8/2016 16:31         58           1/8/2016 8:31         64         5/8/2016 15:01         62         5/8/2016 15:31         60         11/8/2016 10:01         67         16/8/2016 16:01         67         22/8/2016 11:01         68         22/8/2016 11:01         68         22/8/2016 11:01         69 <t< td=""><td>1/8/2016 7:01 61</td><td>5/8/2016 13:31 63</td><td>11/8/2016 8:01 64</td><td>16/8/2016 14:31 67</td><td>22/8/2016 9:01 67</td><td>26/8/2016 15:31 65</td></t<>	1/8/2016 7:01 61	5/8/2016 13:31 63	11/8/2016 8:01 64	16/8/2016 14:31 67	22/8/2016 9:01 67	26/8/2016 15:31 65
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Real time Noise Date	DTN2a (Hong Kong Floatric Cont	·a)			
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<u>Sunday &amp; Holiday</u>	29/7/2016 19:51 60	31/7/2016 8:56 62	31/7/2016 18:01 62	2/8/2016 19:06 61	4/8/2016 20:11 55
07:00-23:00	29/7/2016 19:56 60	31/7/2016 9:01 47	31/7/2016 18:06 62	2/8/2016 19:11 60	4/8/2016 20:16 61
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28/7/2016 22:31 60	31/7/2016 7:36 59	31/7/2016 16:41 61	1/8/2016 21:46 58	3/8/2016 22:51 61	6/8/2016 19:56 61
28/7/2016 22:36 61	31/7/2016 7:41 59	31/7/2016 16:46 61	1/8/2016 21:51 60	3/8/2016 22:56 60	6/8/2016 20:01 61
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29/7/2016 19:41 60	31/7/2016 8:46 55	31/7/2016 17:51 62	1/8/2016 22:56 58	4/8/2016 20:01 49	6/8/2016 21:06 60

Real-time Noise Data	RTN2a (Hong Kong Electric Cent				
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Real-time Noise Data	RTN2a (Hong Kong Electric Cent		1	1	
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Real-time Noise Data	RTN2a (Hong Kong Electric Centr	<u>e)</u>			
24/8/2016 22:11 60	Night time: 23:00-07:00	28/7/2016 0:56 58	29/7/2016 2:01 56	30/7/2016 3:06 58	31/7/2016 4:11 56
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26/8/2016 21:51 60	27/7/2016 23:31 51	29/7/2016 0:36 52	30/7/2016 1:41 58	31/7/2016 2:46 57	1/8/2016 3:51 56
26/8/2016 21:56 50	27/7/2016 23:36 55	29/7/2016 0:41 51	30/7/2016 1:46 47	31/7/2016 2:51 57	1/8/2016 3:56 56
26/8/2016 22:01 61	27/7/2016 23:41 54	29/7/2016 0:46 43	30/7/2016 1:51 58	31/7/2016 2:56 57	1/8/2016 4:01 55
26/8/2016 22:06 59	27/7/2016 23:46 56	29/7/2016 0:51 46	30/7/2016 1:56 47	31/7/2016 3:01 58	1/8/2016 4:06 54
26/8/2016 22:11 59	27/7/2016 23:51 53	29/7/2016 0:56 39	30/7/2016 2:01 58	31/7/2016 3:06 42	1/8/2016 4:11 53
26/8/2016 22:16 60	27/7/2016 23:56 47	29/7/2016 1:01 45	30/7/2016 2:06 58	31/7/2016 3:11 57	1/8/2016 4:16 54
26/8/2016 22:21 59	28/7/2016 0:01 50	29/7/2016 1:06 45	30/7/2016 2:11 58	31/7/2016 3:16 56	1/8/2016 4:21 54
26/8/2016 22:26 60	28/7/2016 0:06 47	29/7/2016 1:11 49	30/7/2016 2:16 58	31/7/2016 3:21 56	1/8/2016 4:26 55
26/8/2016 22:31 56	28/7/2016 0:11 52	29/7/2016 1:16 58	30/7/2016 2:21 44	31/7/2016 3:26 57	1/8/2016 4:31 55
26/8/2016 22:36 59	28/7/2016 0:16 45	29/7/2016 1:21 42	30/7/2016 2:26 58	31/7/2016 3:31 56	1/8/2016 4:36 55
26/8/2016 22:41 59	28/7/2016 0:21 43	29/7/2016 1:26 58	30/7/2016 2:31 58	31/7/2016 3:36 56	1/8/2016 4:41 55
26/8/2016 22:46 60	28/7/2016 0:26 50	29/7/2016 1:31 58	30/7/2016 2:36 58	31/7/2016 3:41 57	1/8/2016 4:46 55
26/8/2016 22:51 59	28/7/2016 0:31 52	29/7/2016 1:36 57	30/7/2016 2:41 58	31/7/2016 3:46 56	1/8/2016 4:51 55
26/8/2016 22:56 61	28/7/2016 0:36 52	29/7/2016 1:41 58	30/7/2016 2:46 58	31/7/2016 3:51 57	1/8/2016 4:56 54
	28/7/2016 0:41 51	29/7/2016 1:46 58	30/7/2016 2:51 58	31/7/2016 3:56 56	1/8/2016 5:01 55
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Real-time Noise	Data	RTN2a (Hong Kong Electric Centr	e)			
1/8/2016 5:16	56	2/8/2016 6:21 63	3/8/2016 23:26 54	5/8/2016 0:31 51	6/8/2016 1:36 58	7/8/2016 2:41 58
1/8/2016 5:21 1/8/2016 5:26	55 55	2/8/2016 6:26 63 2/8/2016 6:31 64	3/8/2016 23:31 53 3/8/2016 23:36 52	5/8/2016 0:36 52 5/8/2016 0:41 58	6/8/2016 1:41 52 6/8/2016 1:46 43	7/8/2016 2:46 57 7/8/2016 2:51 57
1/8/2016 5:31	56	2/8/2016 6:36 61	3/8/2016 23:41 54	5/8/2016 0:46 39	6/8/2016 1:51 58	7/8/2016 2:56 57
1/8/2016 5:36 1/8/2016 5:41	56 56	2/8/2016 6:41 58 2/8/2016 6:46 57	3/8/2016 23:46 56 3/8/2016 23:51 52	5/8/2016 0:51 58 5/8/2016 0:56 58	6/8/2016 1:56 49 6/8/2016 2:01 58	7/8/2016 3:01 57 7/8/2016 3:06 57
1/8/2016 5:46	56	2/8/2016 6:40 57 2/8/2016 6:51 57	3/8/2016 23:56 53	5/8/2016 1:01 58	6/8/2016 2:06 58	7/8/2016 3:11 57
1/8/2016 5:51	57	2/8/2016 6:56 59	4/8/2016 0:01 52	5/8/2016 1:06 58	6/8/2016 2:11 58	7/8/2016 3:16 56
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1/8/2016 6:06	57	2/8/2016 23:11 55	4/8/2016 0:16 47	5/8/2016 1:21 57	6/8/2016 2:26 57	7/8/2016 3:31 56
1/8/2016 6:11	58	2/8/2016 23:16 54	4/8/2016 0:21 46	5/8/2016 1:26 57	6/8/2016 2:31 57	7/8/2016 3:36 58
1/8/2016 6:16 1/8/2016 6:21	58 46	2/8/2016 23:21 50 2/8/2016 23:26 51	4/8/2016 0:26 48 4/8/2016 0:31 47	5/8/2016 1:31 58 5/8/2016 1:36 58	6/8/2016 2:36 57 6/8/2016 2:41 57	7/8/2016 3:41 58 7/8/2016 3:46 56
1/8/2016 6:26	52	2/8/2016 23:31 49	4/8/2016 0:36 51	5/8/2016 1:41 57	6/8/2016 2:46 57	7/8/2016 3:51 57
1/8/2016 6:31 1/8/2016 6:36	51 52	2/8/2016 23:36 56 2/8/2016 23:41 51	4/8/2016 0:41 58 4/8/2016 0:46 58	5/8/2016 1:46 57 5/8/2016 1:51 57	6/8/2016 2:51 58 6/8/2016 2:56 58	7/8/2016 3:56 57 7/8/2016 4:01 56
1/8/2016 6:41	54	2/8/2016 23:46 57	4/8/2016 0:51 35	5/8/2016 1:56 57	6/8/2016 3:01 57	7/8/2016 4:06 56
1/8/2016 6:46	54	2/8/2016 23:51 53	4/8/2016 0:56 58	5/8/2016 2:01 57	6/8/2016 3:06 57	7/8/2016 4:11 56
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1/8/2016 23:01	43	3/8/2016 0:06 51	4/8/2016 1:11 58	5/8/2016 2:16 56	6/8/2016 3:21 57	7/8/2016 4:26 56
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1/8/2016 23:16	43	3/8/2016 0:21 51	4/8/2016 1:26 57	5/8/2016 2:31 56	6/8/2016 3:36 57	7/8/2016 4:41 56
1/8/2016 23:21	47	3/8/2016 0:26 50	4/8/2016 1:31 58 4/8/2016 1:36 57	5/8/2016 2:36 57	6/8/2016 3:41 56	7/8/2016 4:46 56 7/8/2016 4:51 57
1/8/2016 23:26 1/8/2016 23:31	57 57	3/8/2016 0:31 52 3/8/2016 0:36 37	4/8/2016 1:36 57 4/8/2016 1:41 56	5/8/2016 2:41 56 5/8/2016 2:46 56	6/8/2016 3:46 56 6/8/2016 3:51 57	7/8/2016 4:51 57 7/8/2016 4:56 56
1/8/2016 23:36	57	3/8/2016 0:41 35	4/8/2016 1:46 57	5/8/2016 2:51 56	6/8/2016 3:56 56	7/8/2016 5:01 57
1/8/2016 23:41 1/8/2016 23:46	58 58	3/8/2016 0:46 56 3/8/2016 0:51 45	4/8/2016 1:51 57 4/8/2016 1:56 58	5/8/2016 2:56 57 5/8/2016 3:01 56	6/8/2016 4:01 56 6/8/2016 4:06 56	7/8/2016 5:06 56 7/8/2016 5:11 56
1/8/2016 23:51	58	3/8/2016 0:56 48	4/8/2016 2:01 57	5/8/2016 3:06 56	6/8/2016 4:11 57	7/8/2016 5:16 56
1/8/2016 23:56	56 58	3/8/2016 1:01 58 3/8/2016 1:06 58	4/8/2016 2:06 57 4/8/2016 2:11 57	5/8/2016 3:11 55 5/8/2016 3:16 55	6/8/2016 4:16 57 6/8/2016 4:21 56	7/8/2016 5:21 55 7/8/2016 5:26 57
2/8/2016 0:01 2/8/2016 0:06	50	3/8/2016 1:00 58	4/8/2016 2:11 57	5/8/2016 3:16 55 5/8/2016 3:21 56	6/8/2016 4:21 56 6/8/2016 4:26 57	7/8/2016 5:31 57
2/8/2016 0:11	52	3/8/2016 1:16 56	4/8/2016 2:21 56	5/8/2016 3:26 55	6/8/2016 4:31 56	7/8/2016 5:36 56
2/8/2016 0:16 2/8/2016 0:21	58 53	3/8/2016 1:21 58 3/8/2016 1:26 58	4/8/2016 2:26 56 4/8/2016 2:31 56	5/8/2016 3:31 56 5/8/2016 3:36 55	6/8/2016 4:36 56 6/8/2016 4:41 56	7/8/2016 5:41 57 7/8/2016 5:46 56
2/8/2016 0:26	38	3/8/2016 1:31 57	4/8/2016 2:36 55	5/8/2016 3:41 56	6/8/2016 4:46 56	7/8/2016 5:51 58
2/8/2016 0:31 2/8/2016 0:36	52 56	3/8/2016 1:36 57 3/8/2016 1:41 57	4/8/2016 2:41 56 4/8/2016 2:46 56	5/8/2016 3:46 55 5/8/2016 3:51 55	6/8/2016 4:51 56 6/8/2016 4:56 56	7/8/2016 5:56 57 7/8/2016 6:01 56
2/8/2016 0:41	57	3/8/2016 1:41 37 3/8/2016 1:46 43	4/8/2016 2:51 56	5/8/2016 3:56 56	6/8/2016 5:01 56	7/8/2016 6:06 57
2/8/2016 0:46	58	3/8/2016 1:51 56	4/8/2016 2:56 56	5/8/2016 4:01 55	6/8/2016 5:06 56	7/8/2016 6:11 57
2/8/2016 0:51 2/8/2016 0:56	61 61	3/8/2016 1:56 43 3/8/2016 2:01 56	4/8/2016 3:01 55 4/8/2016 3:06 55	5/8/2016 4:06 55 5/8/2016 4:11 55	6/8/2016 5:11 56 6/8/2016 5:16 56	7/8/2016 6:16 58 7/8/2016 6:21 57
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2/8/2016 1:16	60	3/8/2016 2:21 57	4/8/2016 3:26 55	5/8/2016 4:31 55	6/8/2016 5:36 57	7/8/2016 6:41 51
2/8/2016 1:21	60	3/8/2016 2:26 44	4/8/2016 3:31 55	5/8/2016 4:36 56	6/8/2016 5:41 57	7/8/2016 6:46 58 7/8/2016 6:51 49
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2/8/2016 1:36	67	3/8/2016 2:41 56	4/8/2016 3:46 55	5/8/2016 4:51 55	6/8/2016 5:56 57	7/8/2016 23:01 50
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2/8/2016 2:06	65	3/8/2016 3:11 57	4/8/2016 4:11 53	5/8/2016 5:21 56	6/8/2016 6:26 49	7/8/2016 23:31 49
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2/8/2016 2:16 2/8/2016 2:21	63 66	3/8/2016 3:21 57 3/8/2016 3:26 32	4/8/2016 4:26 55 4/8/2016 4:31 54	5/8/2016 5:31 56 5/8/2016 5:36 57	6/8/2016 6:36 50 6/8/2016 6:41 48	7/8/2016 23:41 50 7/8/2016 23:46 58
2/8/2016 2:26	61	3/8/2016 3:31 56	4/8/2016 4:36 55	5/8/2016 5:41 57	6/8/2016 6:46 52	7/8/2016 23:51 45
2/8/2016 2:31 2/8/2016 2:36	60 60	3/8/2016 3:36 55 3/8/2016 3:41 55	4/8/2016 4:41 55 4/8/2016 4:46 55	5/8/2016 5:46 57 5/8/2016 5:51 57	6/8/2016 6:51 55 6/8/2016 6:56 52	7/8/2016 23:56 58 8/8/2016 0:01 46
2/8/2016 2:41	66	3/8/2016 3:46 56	4/8/2016 4:51 55	5/8/2016 5:56 57	6/8/2016 23:01 54	8/8/2016 0:06 35
2/8/2016 2:46 2/8/2016 2:51	63 64	3/8/2016 3:51 59 3/8/2016 3:56 57	4/8/2016 4:56 55 4/8/2016 5:01 55	5/8/2016 6:01 58 5/8/2016 6:06 58	6/8/2016 23:06 54 6/8/2016 23:11 52	8/8/2016 0:11 58 8/8/2016 0:16 58
2/8/2016 2:56	64	3/8/2016 4:01 56	4/8/2016 5:06 55	5/8/2016 6:11 58	6/8/2016 23:16 51	8/8/2016 0:21 58
2/8/2016 3:01 2/8/2016 3:06	65 67	3/8/2016 4:06 56 3/8/2016 4:11 55	4/8/2016 5:11 55 4/8/2016 5:16 56	5/8/2016 6:16 58 5/8/2016 6:21 49	6/8/2016 23:21 52 6/8/2016 23:26 56	8/8/2016 0:26 58 8/8/2016 0:31 57
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2/8/2016 3:16	65	3/8/2016 4:21 55	4/8/2016 5:26 56	5/8/2016 6:31 54	6/8/2016 23:36 52	8/8/2016 0:41 57
2/8/2016 3:21 2/8/2016 3:26	65 69	3/8/2016 4:26 57 3/8/2016 4:31 56	4/8/2016 5:31 56 4/8/2016 5:36 57	5/8/2016 6:36 52 5/8/2016 6:41 53	6/8/2016 23:41 53 6/8/2016 23:46 53	8/8/2016 0:46 58 8/8/2016 0:51 57
2/8/2016 3:31	69	3/8/2016 4:36 56	4/8/2016 5:41 56	5/8/2016 6:46 56	6/8/2016 23:51 51	8/8/2016 0:56 57
2/8/2016 3:36 2/8/2016 3:41	70 70	3/8/2016 4:41 55 3/8/2016 4:46 56	4/8/2016 5:46 57 4/8/2016 5:51 57	5/8/2016 6:51 57 5/8/2016 6:56 57	6/8/2016 23:56 45 7/8/2016 0:01 50	8/8/2016 1:01 57 8/8/2016 1:06 57
2/8/2016 3:46	69	3/8/2016 4:51 56	4/8/2016 5:56 57	5/8/2016 23:01 56	7/8/2016 0:06 51	8/8/2016 1:11 57
2/8/2016 3:51 2/8/2016 3:56	66	3/8/2016 4:56 56 3/8/2016 5:01 55	4/8/2016 6:01 57 4/8/2016 6:06 57	5/8/2016 23:06 55 5/8/2016 23:11 55	7/8/2016 0:11 44	8/8/2016 1:16 57
2/8/2016 3:56	69 70	3/8/2016 5:01 55 3/8/2016 5:06 56	4/8/2016 6:06 57 4/8/2016 6:11 58	5/8/2016 23:11 55 5/8/2016 23:16 56	7/8/2016 0:16 51 7/8/2016 0:21 50	8/8/2016 1:21 57 8/8/2016 1:26 57
2/8/2016 4:06	66	3/8/2016 5:11 55	4/8/2016 6:16 42	5/8/2016 23:21 57	7/8/2016 0:26 54	8/8/2016 1:31 57
2/8/2016 4:11 2/8/2016 4:16	62 60	3/8/2016 5:16 56 3/8/2016 5:21 56	4/8/2016 6:21 50 4/8/2016 6:26 53	5/8/2016 23:26 56 5/8/2016 23:31 54	7/8/2016 0:31 51 7/8/2016 0:36 54	8/8/2016 1:36 57 8/8/2016 1:41 56
2/8/2016 4:21	62	3/8/2016 5:26 56	4/8/2016 6:31 51	5/8/2016 23:36 55	7/8/2016 0:41 41	8/8/2016 1:46 56
2/8/2016 4:26 2/8/2016 4:31	59 61	3/8/2016 5:31 56 3/8/2016 5:36 56	4/8/2016 6:36 52 4/8/2016 6:41 53	5/8/2016 23:41 55 5/8/2016 23:46 55	7/8/2016 0:46 40 7/8/2016 0:51 32	8/8/2016 1:51 56 8/8/2016 1:56 56
2/8/2016 4:36	62	3/8/2016 5:41 56	4/8/2016 6:46 55	5/8/2016 23:51 54	7/8/2016 0:56 58	8/8/2016 2:01 56
2/8/2016 4:41	58 57	3/8/2016 5:46 56	4/8/2016 6:51 56	5/8/2016 23:56 53	7/8/2016 1:01 46	8/8/2016 2:06 56
2/8/2016 4:46 2/8/2016 4:51	57 57	3/8/2016 5:51 57 3/8/2016 5:56 57	4/8/2016 6:56 58 4/8/2016 23:01 55	6/8/2016 0:01 53 6/8/2016 0:06 53	7/8/2016 1:06 58 7/8/2016 1:11 58	8/8/2016 2:11 56 8/8/2016 2:16 56
2/8/2016 4:56	63	3/8/2016 6:01 57	4/8/2016 23:06 55	6/8/2016 0:11 54	7/8/2016 1:16 57	8/8/2016 2:21 56
2/8/2016 5:01 2/8/2016 5:06	66 72	3/8/2016 6:06 58 3/8/2016 6:11 57	4/8/2016 23:11 56 4/8/2016 23:16 56	6/8/2016 0:16 53 6/8/2016 0:21 59	7/8/2016 1:21 58 7/8/2016 1:26 58	8/8/2016 2:26 56 8/8/2016 2:31 56
2/8/2016 5:11	63	3/8/2016 6:16 44	4/8/2016 23:21 56	6/8/2016 0:26 53	7/8/2016 1:31 58	8/8/2016 2:36 55
2/8/2016 5:16 2/8/2016 5:21	61 56	3/8/2016 6:21 46 3/8/2016 6:26 53	4/8/2016 23:26 56 4/8/2016 23:31 57	6/8/2016 0:31 52 6/8/2016 0:36 52	7/8/2016 1:36 58 7/8/2016 1:41 58	8/8/2016 2:41 55 8/8/2016 2:46 56
2/8/2016 5:21	60	3/8/2016 6:26 53 3/8/2016 6:31 52	4/8/2016 23:31 57 4/8/2016 23:36 54	6/8/2016 0:36 52 6/8/2016 0:41 47	7/8/2016 1:41 58 7/8/2016 1:46 57	8/8/2016 2:46 56 8/8/2016 2:51 55
2/8/2016 5:31	60	3/8/2016 6:36 51	4/8/2016 23:41 53	6/8/2016 0:46 50	7/8/2016 1:51 57	8/8/2016 2:56 56
2/8/2016 5:36 2/8/2016 5:41	57 55	3/8/2016 6:41 54 3/8/2016 6:46 55	4/8/2016 23:46 51 4/8/2016 23:51 54	6/8/2016 0:51 47 6/8/2016 0:56 48	7/8/2016 1:56 57 7/8/2016 2:01 57	8/8/2016 3:01 54 8/8/2016 3:06 54
2/8/2016 5:46	56	3/8/2016 6:51 55	4/8/2016 23:56 54	6/8/2016 1:01 47	7/8/2016 2:06 57	8/8/2016 3:11 55
2/8/2016 5:51 2/8/2016 5:56	58 58	3/8/2016 6:56 57 3/8/2016 23:01 56	5/8/2016 0:01 50 5/8/2016 0:06 49	6/8/2016 1:06 58 6/8/2016 1:11 58	7/8/2016 2:11 57 7/8/2016 2:16 57	8/8/2016 3:16 54 8/8/2016 3:21 55
2/8/2016 6:01	60	3/8/2016 23:06 56	5/8/2016 0:11 50	6/8/2016 1:16 53	7/8/2016 2:21 57	8/8/2016 3:26 54
2/8/2016 6:06 2/8/2016 6:11	59 66	3/8/2016 23:11 55 3/8/2016 23:16 55	5/8/2016 0:16 50 5/8/2016 0:21 53	6/8/2016 1:21 58 6/8/2016 1:26 58	7/8/2016 2:26 57 7/8/2016 2:31 57	8/8/2016 3:31 55 8/8/2016 3:36 55
2/8/2016 6:16	64	3/8/2016 23:21 55	5/8/2016 0:26 55	6/8/2016 1:31 58	7/8/2016 2:36 58	8/8/2016 3:41 55

Real-time Noise	Data	RTN2a (Hong Kong Electric Centre	<u>a)</u>			
8/8/2016 3:46	54	9/8/2016 4:51 56	10/8/2016 5:56 57	11/8/2016 23:01 53	13/8/2016 0:06 47	14/8/2016 1:11 58
8/8/2016 3:51 8/8/2016 3:56	55 54	9/8/2016 4:56 55 9/8/2016 5:01 55	10/8/2016 6:01 57 10/8/2016 6:06 57	11/8/2016 23:06 53 11/8/2016 23:11 56	13/8/2016 0:11     42 13/8/2016 0:16     51	14/8/2016 1:16 57 14/8/2016 1:21 56
8/8/2016 4:01	54	9/8/2016 5:06 55	10/8/2016 6:11 57	11/8/2016 23:16 53	13/8/2016 0:21 55	14/8/2016 1:26 57
8/8/2016 4:06 8/8/2016 4:11	54 54	9/8/2016 5:11 56 9/8/2016 5:16 56	10/8/2016 6:16 58 10/8/2016 6:21 58	11/8/2016 23:21 51 11/8/2016 23:26 50	13/8/2016 0:26 43 13/8/2016 0:31 49	14/8/2016 1:31 58 14/8/2016 1:36 57
8/8/2016 4:16	54	9/8/2016 5:21 56	10/8/2016 6:26 59	11/8/2016 23:31 51	13/8/2016 0:36 58	14/8/2016 1:41 57
8/8/2016 4:21 8/8/2016 4:26	54 54	9/8/2016 5:26 56 9/8/2016 5:31 56	10/8/2016 6:31 60 10/8/2016 6:36 65	11/8/2016 23:36 53 11/8/2016 23:41 49	13/8/2016 0:41 53 13/8/2016 0:46 51	14/8/2016 1:46 57 14/8/2016 1:51 57
8/8/2016 4:31	55	9/8/2016 5:36 56	10/8/2016 6:41 64	11/8/2016 23:46 50	13/8/2016 0:51 51	14/8/2016 1:56 57
8/8/2016 4:36	55 56	9/8/2016 5:41 56 9/8/2016 5:46 56	10/8/2016 6:46 63 10/8/2016 6:51 65	11/8/2016 23:51 52 11/8/2016 23:56 51	13/8/2016 0:56 49 13/8/2016 1:01 58	14/8/2016 2:01 57 14/8/2016 2:06 57
8/8/2016 4:41 8/8/2016 4:46	55	9/8/2016 5:46 56 9/8/2016 5:51 57	10/8/2016 6:51 65 10/8/2016 6:56 66	12/8/2016 0:01 49	13/8/2016 1:01 58 13/8/2016 1:06 58	14/8/2016 2:06 57 14/8/2016 2:11 57
8/8/2016 4:51	54	9/8/2016 5:56 57	10/8/2016 23:01 55	12/8/2016 0:06 46	13/8/2016 1:11 50	14/8/2016 2:16 56
8/8/2016 4:56 8/8/2016 5:01	55 55	9/8/2016 6:01 57 9/8/2016 6:06 57	10/8/2016 23:06 56 10/8/2016 23:11 51	12/8/2016 0:11 49 12/8/2016 0:16 45	13/8/2016 1:16 58 13/8/2016 1:21 57	14/8/2016 2:21 56 14/8/2016 2:26 56
8/8/2016 5:06	55	9/8/2016 6:11 58	10/8/2016 23:16 51	12/8/2016 0:21 53	13/8/2016 1:26 58	14/8/2016 2:31 56
8/8/2016 5:11 8/8/2016 5:16	55 55	9/8/2016 6:16 51 9/8/2016 6:21 58	10/8/2016 23:21 55 10/8/2016 23:26 55	12/8/2016 0:26 44 12/8/2016 0:31 51	13/8/2016 1:31 58 13/8/2016 1:36 57	14/8/2016 2:36 57 14/8/2016 2:41 56
8/8/2016 5:21	55	9/8/2016 6:26 44	10/8/2016 23:31 51	12/8/2016 0:36 58	13/8/2016 1:41 57	14/8/2016 2:46 56
8/8/2016 5:26 8/8/2016 5:31	56 56	9/8/2016 6:31 47 9/8/2016 6:36 48	10/8/2016 23:36 48 10/8/2016 23:41 51	12/8/2016 0:41 58 12/8/2016 0:46 58	13/8/2016 1:46 57 13/8/2016 1:51 58	14/8/2016 2:51 56 14/8/2016 2:56 57
8/8/2016 5:36	56	9/8/2016 6:41 52	10/8/2016 23:46 46	12/8/2016 0:51 58	13/8/2016 1:56 57	14/8/2016 3:01 56
8/8/2016 5:41 8/8/2016 5:46	57 56	9/8/2016 6:46 58 9/8/2016 6:51 66	10/8/2016 23:51 51 10/8/2016 23:56 51	12/8/2016 0:56 57 12/8/2016 1:01 58	13/8/2016 2:01 58 13/8/2016 2:06 57	14/8/2016 3:06 56 14/8/2016 3:11 56
8/8/2016 5:51	56	9/8/2016 6:56 64	11/8/2016 0:01 32	12/8/2016 1:06 57	13/8/2016 2:11 57	14/8/2016 3:16 57
8/8/2016 5:56 8/8/2016 6:01	57 56	9/8/2016 23:01 51 9/8/2016 23:06 51	11/8/2016 0:06 37 11/8/2016 0:11 58	12/8/2016 1:11 57 12/8/2016 1:16 57	13/8/2016 2:16 57 13/8/2016 2:21 58	14/8/2016 3:21 57 14/8/2016 3:26 57
8/8/2016 6:06	58	9/8/2016 23:00 51	11/8/2016 0:16 49	12/8/2016 1:10 57	13/8/2016 2:26 57	14/8/2016 3:31 56
8/8/2016 6:11	51 57	9/8/2016 23:16 57 9/8/2016 23:21 53	11/8/2016 0:21 49 11/8/2016 0:26 58	12/8/2016 1:26 57 12/8/2016 1:31 57	13/8/2016 2:31 57 13/8/2016 2:36 53	14/8/2016 3:36 56 14/8/2016 3:41 56
8/8/2016 6:16 8/8/2016 6:21	56	9/8/2016 23:21 53 9/8/2016 23:26 51	11/8/2016 0:31 40	12/8/2016 1:31 37	13/8/2016 2:41 57	14/8/2016 3:46 56
8/8/2016 6:26	62	9/8/2016 23:31 51	11/8/2016 0:36 58	12/8/2016 1:41 57	13/8/2016 2:46 57	14/8/2016 3:51 56
8/8/2016 6:31 8/8/2016 6:36	64 64	9/8/2016 23:36 49 9/8/2016 23:41 50	11/8/2016 0:41 58 11/8/2016 0:46 43	12/8/2016 1:46 56 12/8/2016 1:51 57	13/8/2016 2:51 57 13/8/2016 2:56 57	14/8/2016 3:56 56 14/8/2016 4:01 56
8/8/2016 6:41	56	9/8/2016 23:46 52	11/8/2016 0:51 58	12/8/2016 1:56 56	13/8/2016 3:01 57	14/8/2016 4:06 56
8/8/2016 6:46 8/8/2016 6:51	62 59	9/8/2016 23:51 51 9/8/2016 23:56 52	11/8/2016 0:56 57 11/8/2016 1:01 58	12/8/2016 2:01 57 12/8/2016 2:06 57	13/8/2016 3:06 57 13/8/2016 3:11 56	14/8/2016 4:11 56 14/8/2016 4:16 55
8/8/2016 6:56	63	10/8/2016 0:01 47	11/8/2016 1:06 58	12/8/2016 2:11 56	13/8/2016 3:16 56	14/8/2016 4:21 56
8/8/2016 23:01 8/8/2016 23:06	53 53	10/8/2016 0:06 46 10/8/2016 0:11 50	11/8/2016 1:11 57 11/8/2016 1:16 57	12/8/2016 2:16 56 12/8/2016 2:21 56	13/8/2016 3:21 56 13/8/2016 3:26 56	14/8/2016 4:26 56 14/8/2016 4:31 56
8/8/2016 23:11	54	10/8/2016 0:16 58	11/8/2016 1:21 57	12/8/2016 2:26 57	13/8/2016 3:31 57	14/8/2016 4:36 55
8/8/2016 23:16 8/8/2016 23:21	50 52	10/8/2016 0:21 58 10/8/2016 0:26 50	11/8/2016 1:26 58 11/8/2016 1:31 57	12/8/2016 2:31 56 12/8/2016 2:36 56	13/8/2016 3:36 56 13/8/2016 3:41 56	14/8/2016 4:41 56 14/8/2016 4:46 56
8/8/2016 23:26	55	10/8/2016 0:31 48	11/8/2016 1:36 57	12/8/2016 2:41 56	13/8/2016 3:46 56	14/8/2016 4:51 55
8/8/2016 23:31 8/8/2016 23:36	53 47	10/8/2016 0:36 58 10/8/2016 0:41 58	11/8/2016 1:41 56 11/8/2016 1:46 57	12/8/2016 2:46 55 12/8/2016 2:51 55	13/8/2016 3:51 56 13/8/2016 3:56 56	14/8/2016 4:56 55 14/8/2016 5:01 55
8/8/2016 23:41	46	10/8/2016 0:46 57	11/8/2016 1:51 56	12/8/2016 2:56 55	13/8/2016 4:01 56	14/8/2016 5:06 55
8/8/2016 23:46 8/8/2016 23:51	58 58	10/8/2016 0:51 58 10/8/2016 0:56 58	11/8/2016 1:56 57 11/8/2016 2:01 58	12/8/2016 3:01 56 12/8/2016 3:06 55	13/8/2016 4:06 56 13/8/2016 4:11 56	14/8/2016 5:11 55 14/8/2016 5:16 55
8/8/2016 23:56	58	10/8/2016 0:36 36	11/8/2016 2:06 56	12/8/2016 3:06 55	13/8/2016 4:16 56	14/8/2016 5:16 55
9/8/2016 0:01	58	10/8/2016 1:06 58	11/8/2016 2:11 56	12/8/2016 3:16 54	13/8/2016 4:21 56	14/8/2016 5:26 56
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9/8/2016 0:16	58	10/8/2016 1:21 57	11/8/2016 2:26 55	12/8/2016 3:31 55	13/8/2016 4:36 56	14/8/2016 5:41 56
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9/8/2016 0:31	58	10/8/2016 1:36 57	11/8/2016 2:41 56	12/8/2016 3:46 56	13/8/2016 4:51 56	14/8/2016 5:56 57
9/8/2016 0:36 9/8/2016 0:41	58 58	10/8/2016 1:41 57 10/8/2016 1:46 56	11/8/2016 2:46 56 11/8/2016 2:51 55	12/8/2016 3:51 55 12/8/2016 3:56 55	13/8/2016 4:56 55 13/8/2016 5:01 56	14/8/2016 6:01 56 14/8/2016 6:06 57
9/8/2016 0:46	57	10/8/2016 1:51 57	11/8/2016 2:56 56	12/8/2016 4:01 55	13/8/2016 5:06 57	14/8/2016 6:11 58
9/8/2016 0:51 9/8/2016 0:56	58 57	10/8/2016 1:56 57 10/8/2016 2:01 56	11/8/2016 3:01 56 11/8/2016 3:06 56	12/8/2016 4:06 55 12/8/2016 4:11 54	13/8/2016 5:11 56 13/8/2016 5:16 55	14/8/2016 6:16 56 14/8/2016 6:21 58
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9/8/2016 1:16	57	10/8/2016 2:10 55	11/8/2016 3:26 55	12/8/2016 4:20 33	13/8/2016 5:36 56	14/8/2016 6:41 58
9/8/2016 1:21 9/8/2016 1:26	57 57	10/8/2016 2:26 56 10/8/2016 2:31 55	11/8/2016 3:31 55 11/8/2016 3:36 55	12/8/2016 4:36 55 12/8/2016 4:41 55	13/8/2016 5:41 57 13/8/2016 5:46 56	14/8/2016 6:46 58 14/8/2016 6:51 54
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Real-time Noise Data 15/8/2016 2:16 55	RTN2a (Hong Kong Electric Centil 16/8/2016 3:21 55	<u>e)</u> 17/8/2016 4:26 55	18/8/2016 5:31 55	19/8/2016 6:36 52	20/8/2016 23:41 49
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16/8/2016 2:01 56	17/8/2016 3:06 55	18/8/2016 4:11 55	19/8/2016 5:16 57	20/8/2016 6:21 58	21/8/2016 23:26 49
16/8/2016 2:06 56	17/8/2016 3:11 54	18/8/2016 4:16 54	19/8/2016 5:21 57	20/8/2016 6:26 58	21/8/2016 23:31 47
16/8/2016 2:11 57	17/8/2016 3:16 55	18/8/2016 4:21 55	19/8/2016 5:26 57	20/8/2016 6:31 47	21/8/2016 23:36 35
16/8/2016 2:16 57	17/8/2016 3:21 55	18/8/2016 4:26 56	19/8/2016 5:31 57	20/8/2016 6:36 58	21/8/2016 23:41 58
16/8/2016 2:21 56	17/8/2016 3:26 57	18/8/2016 4:31 55	19/8/2016 5:36 57	20/8/2016 6:41 58	21/8/2016 23:46 58
16/8/2016 2:26 56	17/8/2016 3:31 41	18/8/2016 4:36 54	19/8/2016 5:41 57	20/8/2016 6:46 50	21/8/2016 23:51 58
16/8/2016 2:31 56	17/8/2016 3:36 56	18/8/2016 4:41 55	19/8/2016 5:46 57	20/8/2016 6:51 51	21/8/2016 23:56 58
16/8/2016 2:36 56	17/8/2016 3:41 54	18/8/2016 4:46 55	19/8/2016 5:51 57	20/8/2016 6:56 51	22/8/2016 0:01 57
16/8/2016 2:41 55	17/8/2016 3:46 55	18/8/2016 4:51 55	19/8/2016 5:56 58	20/8/2016 23:01 56	22/8/2016 0:06 58
16/8/2016 2:46 55	17/8/2016 3:51 54	18/8/2016 4:56 55	19/8/2016 6:01 58	20/8/2016 23:06 52	22/8/2016 0:11 47
16/8/2016 2:51 55	17/8/2016 3:56 54	18/8/2016 5:01 55	19/8/2016 6:06 58	20/8/2016 23:11 51	22/8/2016 0:16 57
16/8/2016 2:56 55	17/8/2016 4:01 54	18/8/2016 5:06 55	19/8/2016 6:11 47	20/8/2016 23:16 52	22/8/2016 0:21 57
16/8/2016 3:01 56	17/8/2016 4:06 55	18/8/2016 5:11 54	19/8/2016 6:16 48	20/8/2016 23:21 50	22/8/2016 0:26 57
16/8/2016 3:06 55	17/8/2016 4:11 54	18/8/2016 5:16 54	19/8/2016 6:21 50	20/8/2016 23:26 50	22/8/2016 0:31 57
16/8/2016 3:11 56	17/8/2016 4:16 54	18/8/2016 5:21 55	19/8/2016 6:26 51	20/8/2016 23:31 50	22/8/2016 0:36 57
16/8/2016 3:16 55	17/8/2016 4:21 53	18/8/2016 5:26 56	19/8/2016 6:31 53	20/8/2016 23:36 50	22/8/2016 0:41 56
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Deal time Naise Date	DTNO- (Harry Karry Flactric Cont.	>	
Real-time Noise Data 22/8/2016 0:46 56	RTN2a (Hong Kong Electric Centre 23/8/2016 1:51 56	re) 24/8/2016 2:56 55	25/8/2016 4:01 56
22/8/2016 0:51 57	23/8/2016 1:56 56	24/8/2016 3:01 55	25/8/2016 4:06 55
22/8/2016 0:56 57	23/8/2016 2:01 55	24/8/2016 3:06 56	25/8/2016 4:11 54
22/8/2016 1:01 56 22/8/2016 1:06 57	23/8/2016 2:06 55 23/8/2016 2:11 56	24/8/2016 3:11 55 24/8/2016 3:16 55	25/8/2016 4:16 55 25/8/2016 4:21 54
22/8/2016 1:00 37	23/8/2016 2:16 55	24/8/2016 3:10 33	25/8/2016 4:26 54
22/8/2016 1:16 56	23/8/2016 2:21 56	24/8/2016 3:26 54	25/8/2016 4:31 55
22/8/2016 1:21 56	23/8/2016 2:26 56	24/8/2016 3:31 54	25/8/2016 4:36 54
22/8/2016 1:26 56 22/8/2016 1:31 56	23/8/2016 2:31 55 23/8/2016 2:36 55	24/8/2016 3:36 56 24/8/2016 3:41 55	25/8/2016 4:41 55 25/8/2016 4:46 54
22/8/2016 1:36 56	23/8/2016 2:41 55	24/8/2016 3:46 54	25/8/2016 4:51 56
22/8/2016 1:41 56	23/8/2016 2:46 55	24/8/2016 3:51 54	25/8/2016 4:56 55
22/8/2016 1:46 56	23/8/2016 2:51 55	24/8/2016 3:56 56	25/8/2016 5:01 56
22/8/2016 1:51 56 22/8/2016 1:56 57	23/8/2016 2:56 55 23/8/2016 3:01 55	24/8/2016 4:01 57 24/8/2016 4:06 56	25/8/2016 5:06 54 25/8/2016 5:11 55
22/8/2016 2:01 55	23/8/2016 3:06 55	24/8/2016 4:11 54	25/8/2016 5:16 55
22/8/2016 2:06 55	23/8/2016 3:11 55	24/8/2016 4:16 54	25/8/2016 5:21 55
22/8/2016 2:11 55 22/8/2016 2:16 54	23/8/2016 3:16 55	24/8/2016 4:21 55	25/8/2016 5:26 55
22/8/2016 2:16 54 22/8/2016 2:21 55	23/8/2016 3:21 55 23/8/2016 3:26 54	24/8/2016 4:26 54 24/8/2016 4:31 55	25/8/2016 5:31 55 25/8/2016 5:36 56
22/8/2016 2:26 55	23/8/2016 3:31 56	24/8/2016 4:36 55	25/8/2016 5:41 56
22/8/2016 2:31 55	23/8/2016 3:36 55	24/8/2016 4:41 55	25/8/2016 5:46 56
22/8/2016 2:36 55 22/8/2016 2:41 55	23/8/2016 3:41 54 23/8/2016 3:46 54	24/8/2016 4:46 54 24/8/2016 4:51 56	25/8/2016 5:51 55 25/8/2016 5:56 56
22/8/2016 2:41 55	23/8/2016 3:51 55	24/8/2016 4:56 55	25/8/2016 6:01 56
22/8/2016 2:51 55	23/8/2016 3:56 55	24/8/2016 5:01 55	25/8/2016 6:06 57
22/8/2016 2:56 55	23/8/2016 4:01 55	24/8/2016 5:06 55	25/8/2016 6:11 57
22/8/2016 3:01 54 22/8/2016 3:06 54	23/8/2016 4:06 54 23/8/2016 4:11 55	24/8/2016 5:11 55 24/8/2016 5:16 55	25/8/2016 6:16 58 25/8/2016 6:21 58
22/8/2016 3:00 54	23/8/2016 4:11 33	24/8/2016 5:21 55	25/8/2016 6:26 46
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22/8/2016 3:21 54	23/8/2016 4:26 55	24/8/2016 5:31 55	25/8/2016 6:36 42
22/8/2016 3:26 54 22/8/2016 3:31 54	23/8/2016 4:31 55 23/8/2016 4:36 56	24/8/2016 5:36 56 24/8/2016 5:41 55	25/8/2016 6:41 49 25/8/2016 6:46 52
22/8/2016 3:36 53	23/8/2016 4:41 54	24/8/2016 5:46 56	25/8/2016 6:51 53
22/8/2016 3:41 55	23/8/2016 4:46 55	24/8/2016 5:51 56	25/8/2016 6:56 54
22/8/2016 3:46 53	23/8/2016 4:51 55	24/8/2016 5:56 56	25/8/2016 23:01 54
22/8/2016 3:51 54 22/8/2016 3:56 54	23/8/2016 4:56 55 23/8/2016 5:01 55	24/8/2016 6:01 56 24/8/2016 6:06 57	25/8/2016 23:06 57 25/8/2016 23:11 48
22/8/2016 4:01 54	23/8/2016 5:06 55	24/8/2016 6:11 58	25/8/2016 23:16 50
22/8/2016 4:06 54	23/8/2016 5:11 55	24/8/2016 6:16 58	25/8/2016 23:21 46
22/8/2016 4:11 54	23/8/2016 5:16 55	24/8/2016 6:21 57	25/8/2016 23:26 47
22/8/2016 4:16 54 22/8/2016 4:21 54	23/8/2016 5:21 55 23/8/2016 5:26 56	24/8/2016 6:26 35 24/8/2016 6:31 43	25/8/2016 23:31 45 25/8/2016 23:36 44
22/8/2016 4:26 54	23/8/2016 5:31 55	24/8/2016 6:36 50	25/8/2016 23:41 45
22/8/2016 4:31 54	23/8/2016 5:36 56	24/8/2016 6:41 42	25/8/2016 23:46 49
22/8/2016 4:36 55	23/8/2016 5:41 56	24/8/2016 6:46 53	25/8/2016 23:51 46
22/8/2016 4:41 54 22/8/2016 4:46 54	23/8/2016 5:46 56 23/8/2016 5:51 56	24/8/2016 6:51 53 24/8/2016 6:56 52	25/8/2016 23:56 50 26/8/2016 0:01 58
22/8/2016 4:51 55	23/8/2016 5:56 57	24/8/2016 23:01 53	26/8/2016 0:06 47
22/8/2016 4:56 55	23/8/2016 6:01 56	24/8/2016 23:06 47	26/8/2016 0:11 58
22/8/2016 5:01 55 22/8/2016 5:06 55	23/8/2016 6:06 57 23/8/2016 6:11 57	24/8/2016 23:11 52 24/8/2016 23:16 50	26/8/2016 0:16 58 26/8/2016 0:21 58
22/8/2016 5:06 55	23/8/2016 6:16 57	24/8/2016 23:16 50	26/8/2016 0:26 58
22/8/2016 5:16 55	23/8/2016 6:21 58	24/8/2016 23:26 51	26/8/2016 0:31 57
22/8/2016 5:21 54	23/8/2016 6:26 58	24/8/2016 23:31 46	26/8/2016 0:36 57
22/8/2016 5:26 55 22/8/2016 5:31 55	23/8/2016 6:31 42 23/8/2016 6:36 50	24/8/2016 23:36 49 24/8/2016 23:41 58	26/8/2016 0:41 57 26/8/2016 0:46 58
22/8/2016 5:36 55	23/8/2016 6:41 58	24/8/2016 23:46 47	26/8/2016 0:51 58
22/8/2016 5:41 56	23/8/2016 6:46 51	24/8/2016 23:51 58	26/8/2016 0:56 58
22/8/2016 5:46 56	23/8/2016 6:51 53	24/8/2016 23:56 58	26/8/2016 1:01 57
22/8/2016 5:51 56 22/8/2016 5:56 57	23/8/2016 6:56 55 23/8/2016 23:01 59	25/8/2016 0:01 58 25/8/2016 0:06 58	26/8/2016 1:06 58 26/8/2016 1:11 56
22/8/2016 6:01 57	23/8/2016 23:06 54	25/8/2016 0:11 51	26/8/2016 1:16 58
22/8/2016 6:06 57	23/8/2016 23:11 56	25/8/2016 0:16 47	26/8/2016 1:21 57
22/8/2016 6:11 58 22/8/2016 6:16 58	23/8/2016 23:16 46	25/8/2016 0:21 58	26/8/2016 1:26 56 26/8/2016 1:31 57
22/8/2016 6:16 58 22/8/2016 6:21 58	23/8/2016 23:21 58 23/8/2016 23:26 46	25/8/2016 0:26 57 25/8/2016 0:31 58	26/8/2016 1:31 57 26/8/2016 1:36 56
22/8/2016 6:26 58	23/8/2016 23:31 51	25/8/2016 0:36 57	26/8/2016 1:41 56
22/8/2016 6:31 41	23/8/2016 23:36 46	25/8/2016 0:41 58	26/8/2016 1:46 56
22/8/2016 6:36 58 22/8/2016 6:41 50	23/8/2016 23:41 45 23/8/2016 23:46 58	25/8/2016 0:46 57 25/8/2016 0:51 57	26/8/2016 1:51 56 26/8/2016 1:56 56
22/8/2016 6:46 54	23/8/2016 23:51 58	25/8/2016 0:56 57	26/8/2016 2:01 55
22/8/2016 6:51 55	23/8/2016 23:56 58	25/8/2016 1:01 57	26/8/2016 2:06 55
22/8/2016 6:56 54	24/8/2016 0:01 58	25/8/2016 1:06 58	26/8/2016 2:11 56
22/8/2016 23:01 55 22/8/2016 23:06 50	24/8/2016 0:06 58 24/8/2016 0:11 58	25/8/2016 1:11 57 25/8/2016 1:16 57	26/8/2016 2:16 55 26/8/2016 2:21 56
22/8/2016 23:11 57	24/8/2016 0:16 52	25/8/2016 1:21 56	26/8/2016 2:26 56
22/8/2016 23:16 48	24/8/2016 0:21 63	25/8/2016 1:26 57	26/8/2016 2:31 56
22/8/2016 23:21 52 22/8/2016 23:26 54	24/8/2016 0:26 58 24/8/2016 0:31 57	25/8/2016 1:31 58 25/8/2016 1:36 56	26/8/2016 2:36 55 26/8/2016 2:41 56
22/8/2016 23:31 46	24/8/2016 0:36 58	25/8/2016 1:41 56	26/8/2016 2:46 56
22/8/2016 23:36 49	24/8/2016 0:41 57	25/8/2016 1:46 56	26/8/2016 2:51 55
22/8/2016 23:41 43	24/8/2016 0:46 57	25/8/2016 1:51 55	26/8/2016 2:56 55
22/8/2016 23:46 58 22/8/2016 23:51 45	24/8/2016 0:51 58 24/8/2016 0:56 56	25/8/2016 1:56 56 25/8/2016 2:01 56	26/8/2016 3:01 55 26/8/2016 3:06 55
22/8/2016 23:56 40	24/8/2016 1:01 57	25/8/2016 2:06 55	26/8/2016 3:11 56
23/8/2016 0:01 57	24/8/2016 1:06 57	25/8/2016 2:11 55	26/8/2016 3:16 56
23/8/2016 0:06 58 23/8/2016 0:11 58	24/8/2016 1:11 57 24/8/2016 1:16 56	25/8/2016 2:16 55 25/8/2016 2:21 56	26/8/2016 3:21 55 26/8/2016 3:26 55
23/8/2016 0:16 58	24/8/2016 1:10 36	25/8/2016 2:21 36 25/8/2016 2:26 55	26/8/2016 3:31 54
23/8/2016 0:21 57	24/8/2016 1:26 56	25/8/2016 2:31 55	26/8/2016 3:36 54
23/8/2016 0:26 57	24/8/2016 1:31 57	25/8/2016 2:36 54 25/8/2016 2:41 54	26/8/2016 3:41 55
23/8/2016 0:31 57 23/8/2016 0:36 58	24/8/2016 1:36 56 24/8/2016 1:41 56	25/8/2016 2:41 54 25/8/2016 2:46 55	26/8/2016 3:46 54 26/8/2016 3:51 55
23/8/2016 0:41 57	24/8/2016 1:46 56	25/8/2016 2:51 55	26/8/2016 3:56 55
23/8/2016 0:46 58	24/8/2016 1:51 56	25/8/2016 2:56 54	26/8/2016 4:01 54
23/8/2016 0:51 57 23/8/2016 0:56 58	24/8/2016 1:56 56 24/8/2016 2:01 56	25/8/2016 3:01 54 25/8/2016 3:06 55	26/8/2016 4:06 55 26/8/2016 4:11 54
23/8/2016 1:01 57	24/8/2016 2:01 56 24/8/2016 2:06 55	25/8/2016 3:11 57	26/8/2016 4:11 54 26/8/2016 4:16 54
23/8/2016 1:06 57	24/8/2016 2:11 56	25/8/2016 3:16 55	26/8/2016 4:21 55
23/8/2016 1:11 57	24/8/2016 2:16 56 24/8/2016 2:21 55	25/8/2016 3:21 54	26/8/2016 4:26 55
23/8/2016 1:16 57 23/8/2016 1:21 56	24/8/2016 2:21 55 24/8/2016 2:26 56	25/8/2016 3:26 54 25/8/2016 3:31 55	26/8/2016 4:31 55 26/8/2016 4:36 55
23/8/2016 1:26 57	24/8/2016 2:31 55	25/8/2016 3:36 55	26/8/2016 4:41 55
23/8/2016 1:31 56	24/8/2016 2:36 56	25/8/2016 3:41 55	26/8/2016 4:46 55
23/8/2016 1:36 56 23/8/2016 1:41 56	24/8/2016 2:41 55 24/8/2016 2:46 55	25/8/2016 3:46 54 25/8/2016 3:51 54	26/8/2016 4:51 55 26/8/2016 4:56 54
23/8/2016 1:46 56	24/8/2016 2:51 55	25/8/2016 3:56 55	26/8/2016 5:01 54

26/8/2016 5:06 55
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26/8/2016 23:34 52

Real time Naise Date	DTN2 /Do Loung Kuk Yu Loo Mo	For Momorial School			
Real-time Noise Data Normal Day 07:00-19:00	RTN3 (Po Leung Kuk Yu Lee Mo 1/8/2016 12:31 66	6/8/2016 7:01 65	11/8/2016 13:31 66	17/8/2016 8:01 68	22/8/2016 14:31 68
27/7/2016 7:01 66	1/8/2016 13:01 66	6/8/2016 7:31 65	11/8/2016 14:01 64	17/8/2016 8:31 69	22/8/2016 15:01 66
	1/8/2016 13:31 66	6/8/2016 8:01 66	11/8/2016 14:31 61	17/8/2016 9:01 67	22/8/2016 15:31 66
27/7/2016 7:31 67	1/8/2016 14:01 66	6/8/2016 8:31 66	11/8/2016 15:01 68	17/8/2016 9:31 68	22/8/2016 16:01 67
27/7/2016 8:01 65	1/8/2016 14:31 66	6/8/2016 9:01 66	11/8/2016 15:31 61	17/8/2016 10:01 74	22/8/2016 16:31 68
27/7/2016 8:31 64	1/8/2016 15:01 65	6/8/2016 9:31 66	11/8/2016 16:01 63	17/8/2016 10:31 67	22/8/2016 17:01 67
27/7/2016 9:01 65	1/8/2016 15:31 65	6/8/2016 10:01 66	11/8/2016 16:31 67	17/8/2016 11:01 68	22/8/2016 17:31 66
27/7/2016 9:31 66	1/8/2016 16:01 66	6/8/2016 10:31 66	11/8/2016 17:01 67	17/8/2016 11:31 69	22/8/2016 18:01 66
27/7/2016 9:31 66 27/7/2016 10:01 66	1/8/2016 16:01 66 1/8/2016 16:31 65	6/8/2016 10:31 66 6/8/2016 11:01 65	11/8/2016 17:01 67 11/8/2016 17:31 66	17/8/2016 11:31 69	22/8/2016 18:31 66
27/7/2016 10:31 67	1/8/2016 17:01 65	6/8/2016 11:31 66	11/8/2016 18:01 66	17/8/2016 12:31 70	23/8/2016 7:01 66
27/7/2016 11:01 66	1/8/2016 17:31 66	6/8/2016 12:01 66	11/8/2016 18:31 66	17/8/2016 13:01 69	23/8/2016 7:31 66
27/7/2016 11:31 66	1/8/2016 18:01 67	6/8/2016 12:31 66	12/8/2016 7:01 66	17/8/2016 13:31 67	23/8/2016 8:01 65
27/7/2016 12:01 66	1/8/2016 18:31 66	6/8/2016 13:01 66	12/8/2016 7:31 66	17/8/2016 14:01 59	23/8/2016 8:31 65
27/7/2016 12:31 65	2/8/2016 7:01 63	6/8/2016 13:31 66	12/8/2016 8:01 64	17/8/2016 14:31 66	23/8/2016 9:01 65
27/7/2016 13:01 66	2/8/2016 7:31 65	6/8/2016 14:01 67	12/8/2016 8:31 64	17/8/2016 15:01 66	23/8/2016 9:31 65
27/7/2016 13:31 66	2/8/2016 8:01 65	6/8/2016 14:31 66	12/8/2016 9:01 67	17/8/2016 15:31 69	23/8/2016 10:01 66
27/7/2016 14:01 66	2/8/2016 8:31 63	6/8/2016 15:01 66	12/8/2016 9:31 65	17/8/2016 16:01 66	23/8/2016 10:31 66
27/7/2016 14:31 66	2/8/2016 9:01 61	6/8/2016 15:31 67	12/8/2016 10:01 66	17/8/2016 16:31 62	23/8/2016 11:01 66
27/7/2016 15:01 66	2/8/2016 9:31 62	6/8/2016 16:01 66	12/8/2016 10:31 65	17/8/2016 17:01 64	23/8/2016 11:31 64
27/7/2016 15:31 66	2/8/2016 10:01 62	6/8/2016 16:31 66	12/8/2016 11:01 65	17/8/2016 17:31 70	23/8/2016 12:01 66
27/7/2016 16:01 66	2/8/2016 10:31 62	6/8/2016 17:01 66	12/8/2016 11:31 65	17/8/2016 18:01 69	23/8/2016 12:31 65
27/7/2016 16:31 66	2/8/2016 11:01 64	6/8/2016 17:31 66	12/8/2016 12:01 65	17/8/2016 18:31 69	23/8/2016 13:01 66
27/7/2016 17:01 66	2/8/2016 11:31 65	6/8/2016 18:01 65	12/8/2016 12:31 65	18/8/2016 7:01 69	23/8/2016 13:31 66
27/7/2016 17:31 65	2/8/2016 12:01 66	6/8/2016 18:31 66	12/8/2016 13:01 66	18/8/2016 7:31 68	23/8/2016 14:01 67
27/7/2016 18:01 66	2/8/2016 12:31 68	8/8/2016 7:01 65	12/8/2016 13:31 67	18/8/2016 8:01 67	23/8/2016 14:31 66
27/7/2016 18:31 66	2/8/2016 13:01 68	8/8/2016 7:31 66	12/8/2016 14:01 67	18/8/2016 8:31 68	23/8/2016 15:01 66
28/7/2016 7:01 65	2/8/2016 13:31 68	8/8/2016 8:01 65	12/8/2016 14:31 67	18/8/2016 9:01 69	23/8/2016 15:31 66
28/7/2016 7:31 66	2/8/2016 14:01 69	8/8/2016 8:31 63	12/8/2016 15:01 68	18/8/2016 9:31 64	23/8/2016 16:01 66
28/7/2016 8:01 65	2/8/2016 14:31 69	8/8/2016 9:01 64	12/8/2016 15:31 67	18/8/2016 10:01 51	23/8/2016 16:31 67
28/7/2016 8:31 64	2/8/2016 15:01 69	8/8/2016 9:31 65	12/8/2016 16:01 67	18/8/2016 10:31 70	23/8/2016 17:01 66
28/7/2016 9:01 65	2/8/2016 15:31 69	8/8/2016 10:01 66	12/8/2016 16:31 67	18/8/2016 11:01 70	23/8/2016 17:31 66
28/7/2016 9:31 66	2/8/2016 16:01 69	8/8/2016 10:31 66	12/8/2016 17:01 67	18/8/2016 11:31 62	23/8/2016 18:01 66
28/7/2016 9:31 66 28/7/2016 10:01 66	2/8/2016 16:01 69 2/8/2016 16:31 66	8/8/2016 11:01 66	12/8/2016 17:31 67	18/8/2016 12:01 61	23/8/2016 18:31 66
28/7/2016 10:31 66	2/8/2016 17:01 65	8/8/2016 11:31 66	12/8/2016 18:01 66	18/8/2016 12:31 62	24/8/2016 7:01 65
28/7/2016 11:01 66	2/8/2016 17:31 66	8/8/2016 12:01 66	12/8/2016 18:31 65	18/8/2016 13:01 65	24/8/2016 7:31 66
28/7/2016 11:31 66	2/8/2016 18:01 66	8/8/2016 12:31 66	13/8/2016 7:01 65	18/8/2016 13:31 54	24/8/2016 8:01 66
28/7/2016 12:01 66	2/8/2016 18:31 66	8/8/2016 13:01 65	13/8/2016 7:31 65	18/8/2016 14:01 56	24/8/2016 8:31 65
28/7/2016 12:31 66	3/8/2016 7:01 66	8/8/2016 13:31 66	13/8/2016 8:01 66	18/8/2016 14:31 62	24/8/2016 9:01 66
28/7/2016 13:01 66	3/8/2016 7:31 67	8/8/2016 14:01 66	13/8/2016 8:31 67	18/8/2016 15:01 47	24/8/2016 9:31 66
28/7/2016 13:31 66	3/8/2016 8:01 68	8/8/2016 14:31 66	13/8/2016 9:01 67	18/8/2016 15:31 69	24/8/2016 10:01 66
28/7/2016 14:01 66	3/8/2016 8:31 64	8/8/2016 15:01 66	13/8/2016 9:31 65	18/8/2016 16:01 59	24/8/2016 10:31 67
28/7/2016 14:31 66	3/8/2016 9:01 64	8/8/2016 15:31 65	13/8/2016 10:01 65	18/8/2016 16:31 61	24/8/2016 11:01 66
28/7/2016 15:01 66	3/8/2016 9:31 65	8/8/2016 16:01 66	13/8/2016 10:31 67	18/8/2016 17:01 61	24/8/2016 11:31 66
28/7/2016 15:31 66	3/8/2016 10:01 66	8/8/2016 16:31 66	13/8/2016 11:01 67	18/8/2016 17:31 57	24/8/2016 12:01 66
28/7/2016 16:01 65	3/8/2016 10:31 64	8/8/2016 17:01 66	13/8/2016 11:31 67	18/8/2016 18:01 69	24/8/2016 12:31 65
28/7/2016 16:31 65	3/8/2016 11:01 66	8/8/2016 17:31 66	13/8/2016 12:01 66	18/8/2016 18:31 66	24/8/2016 13:01 65
28/7/2016 17:01 65	3/8/2016 11:31 67	8/8/2016 18:01 66	13/8/2016 12:31 66	19/8/2016 7:01 66	24/8/2016 13:31 66
28/7/2016 17:31 66	3/8/2016 12:01 66	8/8/2016 18:31 65	13/8/2016 13:01 66	19/8/2016 7:31 67	24/8/2016 14:01 66
28/7/2016 18:01 65	3/8/2016 12:31 67	9/8/2016 7:01 65	13/8/2016 13:31 67	19/8/2016 8:01 65	24/8/2016 14:31 67
28/7/2016 18:31 66	3/8/2016 13:01 66	9/8/2016 7:31 66	13/8/2016 14:01 66	19/8/2016 8:31 66	24/8/2016 15:01 66
29/7/2016 7:01 65	3/8/2016 13:31 67	9/8/2016 8:01 65	13/8/2016 14:31 67	19/8/2016 9:01 69	24/8/2016 15:31 66
29/7/2016 7:31 66	3/8/2016 14:01 67	9/8/2016 8:31 64	13/8/2016 15:01 67	19/8/2016 9:31 68	24/8/2016 16:01 66
29/7/2016 8:01 65	3/8/2016 14:31 68	9/8/2016 9:01 63	13/8/2016 15:31 67	19/8/2016 10:01 69	24/8/2016 16:31 66
29/7/2016 8:31 64	3/8/2016 15:01 66	9/8/2016 9:31 63	13/8/2016 16:01 66	19/8/2016 10:31 70	24/8/2016 17:01 66
29/7/2016 9:01 65	3/8/2016 15:31 67	9/8/2016 10:01 64	13/8/2016 16:31 66	19/8/2016 11:01 66	24/8/2016 17:31 66
29/7/2016 9:31 66	3/8/2016 16:01 67	9/8/2016 10:31 66	13/8/2016 17:01 66	19/8/2016 11:31 66	24/8/2016 18:01 66
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29/7/2016 11:01 66	3/8/2016 17:31 67	9/8/2016 12:01 80	13/8/2016 18:31 66	19/8/2016 13:01 66	25/8/2016 7:31 66
29/7/2016 11:31 67	3/8/2016 18:01 67	9/8/2016 12:31 77	15/8/2016 7:01 66	19/8/2016 13:31 68	25/8/2016 8:01 65
29/7/2016 12:01 65	3/8/2016 18:31 67	9/8/2016 13:01 59	15/8/2016 7:31 66	19/8/2016 14:01 68	25/8/2016 8:31 64
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29/7/2016 15:31 67	4/8/2016 10:01 66	9/8/2016 16:31 62	15/8/2016 11:01 67	19/8/2016 17:31 69	25/8/2016 12:01 65
29/7/2016 16:01 66	4/8/2016 10:31 67	9/8/2016 17:01 57	15/8/2016 11:31 67	19/8/2016 18:01 68	25/8/2016 12:31 65
29/7/2016 16:31 66	4/8/2016 11:01 67	9/8/2016 17:31 60	15/8/2016 12:01 67	19/8/2016 18:31 65	25/8/2016 13:01 65
29/7/2016 17:01 66	4/8/2016 11:31 67	9/8/2016 18:01 57	15/8/2016 12:31 66	20/8/2016 7:01 68	25/8/2016 13:31 66
29/7/2016 17:31 65	4/8/2016 12:01 66	9/8/2016 18:31 70	15/8/2016 13:01 67	20/8/2016 7:31 70	25/8/2016 14:01 66
29/7/2016 18:01 65	4/8/2016 12:31 68	10/8/2016 7:01 76	15/8/2016 13:31 67 15/8/2016 14:01 66	20/8/2016 8:01 62	25/8/2016 14:31 65
29/7/2016 18:31 62	4/8/2016 13:01 67	10/8/2016 7:31 68	15/8/2016 14:01 66	20/8/2016 8:31 65	25/8/2016 15:01 63
30/7/2016 7:01 64	4/8/2016 13:31 70	10/8/2016 8:01 75		20/8/2016 9:01 67	25/8/2016 15:31 65
30/7/2016 7:31 64	4/8/2016 14:01 62	10/8/2016 8:31 66	15/8/2016 15:01 68	20/8/2016 9:31 66	25/8/2016 16:01 66
30/7/2016 8:01 65	4/8/2016 14:31 61	10/8/2016 9:01 66	15/8/2016 15:31 67	20/8/2016 10:01 66	25/8/2016 16:31 66
30/7/2016 8:31 66	4/8/2016 15:01 59	10/8/2016 9:31 66	15/8/2016 16:01 66	20/8/2016 10:31 65	25/8/2016 17:01 66
30/7/2016 9:01 66	4/8/2016 15:31 54	10/8/2016 10:01 68	15/8/2016 16:31 64	20/8/2016 11:01 57	25/8/2016 17:31 66
30/7/2016 9:31 66	4/8/2016 16:01 69	10/8/2016 10:31 67	15/8/2016 17:01 70	20/8/2016 11:31 63	25/8/2016 18:01 66
30/7/2016 10:01 66	4/8/2016 16:31 70	10/8/2016 11:01 66	15/8/2016 17:31 57	20/8/2016 12:01 66	25/8/2016 18:31 65
30/7/2016 10:31 67	4/8/2016 17:01 70	10/8/2016 11:31 66	15/8/2016 18:01 69	20/8/2016 12:31 66	26/8/2016 7:01 65
30/7/2016 11:01 67	4/8/2016 17:31 50	10/8/2016 12:01 66	15/8/2016 18:31 69	20/8/2016 13:01 66	26/8/2016 7:31 66
30/7/2016 11:31 66	4/8/2016 18:01 53	10/8/2016 12:31 67	16/8/2016 7:01 69	20/8/2016 13:31 68	26/8/2016 8:01 64
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30/7/2016 12:31 66	5/8/2016 7:01 66	10/8/2016 13:31 67	16/8/2016 8:01 68	20/8/2016 14:31 67	26/8/2016 9:01 65
30/7/2016 13:01 66	5/8/2016 7:31 67	10/8/2016 14:01 66	16/8/2016 8:31 67	20/8/2016 15:01 67	26/8/2016 9:31 66
30/7/2016 13:31 67	5/8/2016 8:01 66	10/8/2016 14:31 67	16/8/2016 9:01 67	20/8/2016 15:31 66	26/8/2016 10:01 66
30/7/2016 14:01 66	5/8/2016 8:31 63	10/8/2016 15:01 67	16/8/2016 9:31 67	20/8/2016 16:01 68	26/8/2016 10:31 66
30/7/2016 14:31 66	5/8/2016 9:01 64	10/8/2016 15:31 67	16/8/2016 10:01 67	20/8/2016 16:31 69	26/8/2016 11:01 66
30/7/2016 15:01 67	5/8/2016 9:31 64	10/8/2016 16:01 67	16/8/2016 10:31 67	20/8/2016 17:01 67	26/8/2016 11:31 65
30/7/2016 15:31 66	5/8/2016 10:01 65	10/8/2016 16:31 66	16/8/2016 11:01 55	20/8/2016 17:31 67	26/8/2016 12:01 65
30/7/2016 16:01 66	5/8/2016 10:31 66	10/8/2016 17:01 67	16/8/2016 11:31 57	20/8/2016 18:01 66	26/8/2016 12:31 66
30/7/2016 16:31 66	5/8/2016 11:01 66	10/8/2016 17:31 67	16/8/2016 12:01 69	20/8/2016 18:31 66	26/8/2016 13:01 65
30/7/2016 17:01 66	5/8/2016 11:31 67	10/8/2016 18:01 66	16/8/2016 12:31 69	22/8/2016 7:01 66	26/8/2016 13:31 64
30/7/2016 17:31 66	5/8/2016 12:01 66	10/8/2016 18:31 67	16/8/2016 13:01 69	22/8/2016 7:31 66	26/8/2016 14:01 63
30/7/2016 18:01 66	5/8/2016 12:31 66	11/8/2016 7:01 65	16/8/2016 13:31 69	22/8/2016 8:01 65	26/8/2016 14:31 63
30/7/2016 18:31 66	5/8/2016 13:01 66	11/8/2016 7:31 66	16/8/2016 14:01 69	22/8/2016 8:31 67	26/8/2016 15:01 63
1/8/2016 7:01 65	5/8/2016 13:31 67	11/8/2016 8:01 65	16/8/2016 14:31 67	22/8/2016 9:01 68	26/8/2016 15:31 65
1/8/2016 7:31 66	5/8/2016 14:01 67	11/8/2016 8:31 65	16/8/2016 15:01 68	22/8/2016 9:31 69	26/8/2016 16:01 66
1/8/2016 8:01 65	5/8/2016 14:31 67	11/8/2016 9:01 65	16/8/2016 15:31 58	22/8/2016 10:01 69	26/8/2016 16:31 66
1/8/2016 8:31 63	5/8/2016 15:01 67	11/8/2016 9:31 66	16/8/2016 16:01 59	22/8/2016 10:31 67	26/8/2016 17:01 66
1/8/2016 9:01 65	5/8/2016 15:31 66	11/8/2016 10:01 65	16/8/2016 16:31 61	22/8/2016 11:01 68	26/8/2016 17:31 66
1/8/2016 9:31 66	5/8/2016 16:01 66	11/8/2016 10:31 66	16/8/2016 17:01 62	22/8/2016 11:31 66	26/8/2016 18:01 65
1/8/2016 10:01 66	5/8/2016 16:31 66	11/8/2016 11:01 66	16/8/2016 17:31 60	22/8/2016 12:01 67	26/8/2016 18:31 63
1/8/2016 10:31 66	5/8/2016 17:01 66	11/8/2016 11:31 67	16/8/2016 18:01 54	22/8/2016 12:31 66	
1/8/2016 11:01 66	5/8/2016 17:31 66	11/8/2016 12:01 69	16/8/2016 18:31 69	22/8/2016 13:01 66	
1/8/2016 11:31 66	5/8/2016 18:01 66	11/8/2016 12:31 69	17/8/2016 7:01 69	22/8/2016 13:31 68	
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Deal time Noise Date	DTNO (De Lesser Kisle) (c. Lee Me	For Managial Ochool)			
Real-time Noise Data Normal Day 19:00-23:00,	RTN3 (Po Leung Kuk Yu Lee Mo 29/7/2016 19:46 62	31/7/2016 8:51 64	31/7/2016 17:56 65	2/8/2016 19:01 66	4/8/2016 20:06 67
Sunday & Holiday	29/7/2016 19:51 64	31/7/2016 8:56 65	31/7/2016 18:01 65	2/8/2016 19:06 66	4/8/2016 20:11 68
07:00-23:00	29/7/2016 19:56 65	31/7/2016 9:01 65	31/7/2016 18:06 65	2/8/2016 19:11 65	4/8/2016 20:16 66
	29/7/2016 20:01 64	31/7/2016 9:06 64	31/7/2016 18:11 65	2/8/2016 19:16 65	4/8/2016 20:21 66
27/7/2016 19:01 65	29/7/2016 20:06 65	31/7/2016 9:11 65	31/7/2016 18:16 66	2/8/2016 19:21 65	4/8/2016 20:26 66
27/7/2016 19:06 65	29/7/2016 20:11 65	31/7/2016 9:16 65	31/7/2016 18:21 66	2/8/2016 19:26 65	4/8/2016 20:31 67
27/7/2016 19:11 65	29/7/2016 20:16 65	31/7/2016 9:21 65	31/7/2016 18:26 66 31/7/2016 18:31 65	2/8/2016 19:31 65	4/8/2016 20:36 64
27/7/2016 19:16 65	29/7/2016 20:21 64	31/7/2016 9:26 65	31/7/2016 18:31 65	2/8/2016 19:36 65	4/8/2016 20:41 76
27/7/2016 19:21 65	29/7/2016 20:26 64	31/7/2016 9:31 65	31/7/2016 18:36 65	2/8/2016 19:41 65	4/8/2016 20:46 66
27/7/2016 19:26 65	29/7/2016 20:31 65	31/7/2016 9:36 66	31/7/2016 18:41 65	2/8/2016 19:46 65	4/8/2016 20:51 66
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27/7/2016 19:36 65	29/7/2016 20:41 66	31/7/2016 9:46 64	31/7/2016 18:51 65	2/8/2016 19:56 65	4/8/2016 21:01 65
27/7/2016 19:41 65	29/7/2016 20:46 65	31/7/2016 9:51 65	31/7/2016 18:56 66	2/8/2016 20:01 65	4/8/2016 21:06 63
27/7/2016 19:46 65	29/7/2016 20:51 64	31/7/2016 9:56 65	31/7/2016 19:01 65	2/8/2016 20:06 65	4/8/2016 21:11 65
27/7/2016 19:51 65	29/7/2016 20:56 64	31/7/2016 10:01 65 31/7/2016 10:06 65	31/7/2016 19:06 65	2/8/2016 20:11 65	4/8/2016 21:16 66
27/7/2016 19:56 65 27/7/2016 20:01 65	29/7/2016 21:06 64	31/7/2016 10:11 65	31/7/2016 19:16 65	2/8/2016 20:16 65 2/8/2016 20:21 65	4/8/2016 21:21 66 4/8/2016 21:26 64
27/7/2016 20:06 65	29/7/2016 21:11 64	31/7/2016 10:16 65	31/7/2016 19:21 65	2/8/2016 20:26 66	4/8/2016 21:31 64
27/7/2016 20:11 65	29/7/2016 21:16 65	31/7/2016 10:21 65	31/7/2016 19:26 65	2/8/2016 20:31 66	4/8/2016 21:36 65
27/7/2016 20:16 65	29/7/2016 21:21 64	31/7/2016 10:26 65	31/7/2016 19:31 66	2/8/2016 20:36 65	4/8/2016 21:41 63
27/7/2016 20:21 65	29/7/2016 21:26 64	31/7/2016 10:31 65	31/7/2016 19:36 65	2/8/2016 20:41 65	4/8/2016 21:46 64
27/7/2016 20:26 65	29/7/2016 21:31 64	31/7/2016 10:36 65	31/7/2016 19:41 65	2/8/2016 20:46 64	4/8/2016 21:51 64
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27/7/2016 20:41 60	29/7/2016 21:46 64	31/7/2016 10:51 66	31/7/2016 19:56 65	2/8/2016 21:01 65	4/8/2016 22:06 65
27/7/2016 20:46 64	29/7/2016 21:51 64	31/7/2016 10:56 58	31/7/2016 20:01 65	2/8/2016 21:06 65	4/8/2016 22:11 66
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Real-time Noise Data 14/8/2016 19:41 65	RTN3 (Po Leung Kuk Yu Lee Mo 16/8/2016 20:46 63	Fan Memorial School) 18/8/2016 21:51 60	20/8/2016 22:56 65	21/8/2016 16:01 65	22/8/2016 21:06 64
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16/8/2016 20:06 66	18/8/2016 21:11 65	20/8/2016 22:16 65	21/8/2016 15:21 66	22/8/2016 20:26 65	24/8/2016 21:31 64
16/8/2016 20:11 65	18/8/2016 21:16 61	20/8/2016 22:21 65	21/8/2016 15:26 66	22/8/2016 20:31 65	24/8/2016 21:36 65
16/8/2016 20:16 64	18/8/2016 21:21 60	20/8/2016 22:26 65	21/8/2016 15:31 66	22/8/2016 20:36 65	24/8/2016 21:41 64
16/8/2016 20:21 66	18/8/2016 21:26 61	20/8/2016 22:31 65	21/8/2016 15:36 65	22/8/2016 20:41 65	24/8/2016 21:46 64
16/8/2016 20:26 64	18/8/2016 21:31 62	20/8/2016 22:36 65	21/8/2016 15:41 65	22/8/2016 20:46 65	24/8/2016 21:51 64
16/8/2016 20:31 71	18/8/2016 21:36 65	20/8/2016 22:41 66	21/8/2016 15:46 65	22/8/2016 20:51 64	24/8/2016 21:56 64
16/8/2016 20:36 69	18/8/2016 21:41 62	20/8/2016 22:46 65	21/8/2016 15:51 65	22/8/2016 20:56 64	24/8/2016 22:01 64
16/8/2016 20:41 64	18/8/2016 21:46 61	20/8/2016 22:51 65	21/8/2016 15:56 65	22/8/2016 21:01 64	24/8/2016 22:06 64

Real-time Noise Data	RTN3 (Po Leung Kuk Yu Lee Mo				_
24/8/2016 22:11 64 24/8/2016 22:16 65	Night time: 23:00-07:00	28/7/2016 0:56 62 28/7/2016 1:01 62	29/7/2016 2:01 60 29/7/2016 2:06 62	30/7/2016 3:06 62 30/7/2016 3:11 61	31/7/2016 4:11 60 31/7/2016 4:16 61
24/8/2016 22:21 64	27/7/2016 0:01 57	28/7/2016 1:06 63	29/7/2016 2:11 59	30/7/2016 3:11 61	31/7/2016 4:21 60
24/8/2016 22:26 64	27/7/2016 0:06 55	28/7/2016 1:11 62	29/7/2016 2:16 60	30/7/2016 3:21 60	31/7/2016 4:26 61
24/8/2016 22:31 64 24/8/2016 22:36 65	27/7/2016 0:11 49 27/7/2016 0:16 63	28/7/2016 1:16 62 28/7/2016 1:21 61	29/7/2016 2:21 60 29/7/2016 2:26 60	30/7/2016 3:26 60 30/7/2016 3:31 60	31/7/2016 4:31 60 31/7/2016 4:36 60
24/8/2016 22:41 65	27/7/2016 0:21 57	28/7/2016 1:26 61	29/7/2016 2:31 60	30/7/2016 3:36 60	31/7/2016 4:41 60
24/8/2016 22:46 65	27/7/2016 0:26 55	28/7/2016 1:31 62	29/7/2016 2:36 60	30/7/2016 3:41 60	31/7/2016 4:46 60
24/8/2016 22:51 65 24/8/2016 22:56 64	27/7/2016 0:31 63 27/7/2016 0:36 63	28/7/2016 1:36 61 28/7/2016 1:41 62	29/7/2016 2:41 60 29/7/2016 2:46 60	30/7/2016 3:46 60 30/7/2016 3:51 60	31/7/2016 4:51 61 31/7/2016 4:56 60
25/8/2016 19:01 63	27/7/2016 0:41 63	28/7/2016 1:46 62	29/7/2016 2:51 60	30/7/2016 3:56 60	31/7/2016 5:01 61
25/8/2016 19:06 63 25/8/2016 19:11 65	27/7/2016 0:46 63 27/7/2016 0:51 63	28/7/2016 1:51 60 28/7/2016 1:56 60	29/7/2016 2:56 60 29/7/2016 3:01 60	30/7/2016 4:01 60 30/7/2016 4:06 60	31/7/2016 5:06 60 31/7/2016 5:11 60
25/8/2016 19:11 65 25/8/2016 19:16 65	27/7/2016 0:51 63 27/7/2016 0:56 62	28/7/2016 1:56 60 28/7/2016 2:01 60	29/7/2016 3:01 60 29/7/2016 3:06 60	30/7/2016 4:06 60 30/7/2016 4:11 60	31/7/2016 5:11 60 31/7/2016 5:16 60
25/8/2016 19:21 65	27/7/2016 1:01 62	28/7/2016 2:06 61	29/7/2016 3:11 60	30/7/2016 4:16 59	31/7/2016 5:21 61
25/8/2016 19:26 65 25/8/2016 19:31 65	27/7/2016 1:06 63 27/7/2016 1:11 61	28/7/2016 2:11 60 28/7/2016 2:16 60	29/7/2016 3:16 60 29/7/2016 3:21 59	30/7/2016 4:21 60 30/7/2016 4:26 61	31/7/2016 5:26 61 31/7/2016 5:31 61
25/8/2016 19:36 65	27/7/2016 1:16 62	28/7/2016 2:21 61	29/7/2016 3:26 58	30/7/2016 4:31 59	31/7/2016 5:36 61
25/8/2016 19:41 65	27/7/2016 1:21 62	28/7/2016 2:26 61	29/7/2016 3:31 58	30/7/2016 4:36 61	31/7/2016 5:41 61
25/8/2016 19:46 65 25/8/2016 19:51 65	27/7/2016 1:26 61 27/7/2016 1:31 61	28/7/2016 2:31 59 28/7/2016 2:36 60	29/7/2016 3:36 59 29/7/2016 3:41 59	30/7/2016 4:41 59 30/7/2016 4:46 59	31/7/2016 5:46 61 31/7/2016 5:51 60
25/8/2016 19:56 65	27/7/2016 1:36 61	28/7/2016 2:41 60	29/7/2016 3:46 60	30/7/2016 4:51 60	31/7/2016 5:56 61
25/8/2016 20:01 65 25/8/2016 20:06 65	27/7/2016 1:41 62 27/7/2016 1:46 62	28/7/2016 2:46 60 28/7/2016 2:51 59	29/7/2016 3:51 60 29/7/2016 3:56 59	30/7/2016 4:56 59 30/7/2016 5:01 60	31/7/2016 6:01 62 31/7/2016 6:06 62
25/8/2016 20:11 65	27/7/2016 1:51 61	28/7/2016 2:56 60	29/7/2016 4:01 59	30/7/2016 5:06 60	31/7/2016 6:11 61
25/8/2016 20:16 65	27/7/2016 1:56 61	28/7/2016 3:01 59	29/7/2016 4:06 59	30/7/2016 5:11 59	31/7/2016 6:16 61
25/8/2016 20:21 65 25/8/2016 20:26 65	27/7/2016 2:01 61 27/7/2016 2:06 61	28/7/2016 3:06 59 28/7/2016 3:11 59	29/7/2016 4:11 58 29/7/2016 4:16 60	30/7/2016 5:16 60 30/7/2016 5:21 60	31/7/2016 6:21 62 31/7/2016 6:26 62
25/8/2016 20:31 64	27/7/2016 2:11 60	28/7/2016 3:16 59	29/7/2016 4:21 59	30/7/2016 5:26 60	31/7/2016 6:31 63
25/8/2016 20:36 64 25/8/2016 20:41 65	27/7/2016 2:16 61 27/7/2016 2:21 60	28/7/2016 3:21 60 28/7/2016 3:26 58	29/7/2016 4:26 59 29/7/2016 4:31 59	30/7/2016 5:31 60 30/7/2016 5:36 61	31/7/2016 6:36 62 31/7/2016 6:41 61
25/8/2016 20:46 65	27/7/2016 2:26 60	28/7/2016 3:31 58	29/7/2016 4:36 59	30/7/2016 5:41 60	31/7/2016 6:46 62
25/8/2016 20:51 64	27/7/2016 2:31 60	28/7/2016 3:36 60	29/7/2016 4:41 59	30/7/2016 5:46 61	31/7/2016 6:51 62
25/8/2016 20:56 65 25/8/2016 21:01 65	27/7/2016 2:36 59 27/7/2016 2:41 59	28/7/2016 3:41 60 28/7/2016 3:46 59	29/7/2016 4:46 58 29/7/2016 4:51 58	30/7/2016 5:51 61 30/7/2016 5:56 61	31/7/2016 6:56 54 31/7/2016 23:01 53
25/8/2016 21:06 64	27/7/2016 2:46 59	28/7/2016 3:51 59	29/7/2016 4:56 60	30/7/2016 6:01 61	31/7/2016 23:06 57
25/8/2016 21:11 64 25/8/2016 21:16 65	27/7/2016 2:51 59 27/7/2016 2:56 60	28/7/2016 3:56 59 28/7/2016 4:01 58	29/7/2016 5:01 59 29/7/2016 5:06 60	30/7/2016 6:06 61 30/7/2016 6:11 63	31/7/2016 23:11 58 31/7/2016 23:16 57
25/8/2016 21:10 63	27/7/2016 2:36 60 27/7/2016 3:01 59	28/7/2016 4:01 58	29/7/2016 5:06 60 29/7/2016 5:11 59	30/7/2016 6:11 63	31/7/2016 23:16 57
25/8/2016 21:26 64	27/7/2016 3:06 59	28/7/2016 4:11 60	29/7/2016 5:16 59	30/7/2016 6:21 62	31/7/2016 23:26 54
25/8/2016 21:31 64 25/8/2016 21:36 65	27/7/2016 3:11 60 27/7/2016 3:16 59	28/7/2016 4:16 59 28/7/2016 4:21 60	29/7/2016 5:21 61 29/7/2016 5:26 60	30/7/2016 6:26 59 30/7/2016 6:31 51	31/7/2016 23:31 48 31/7/2016 23:36 54
25/8/2016 21:41 65	27/7/2016 3:21 59	28/7/2016 4:26 59	29/7/2016 5:31 59	30/7/2016 6:36 63	31/7/2016 23:41 54
25/8/2016 21:46 64 25/8/2016 21:51 65	27/7/2016 3:26 59 27/7/2016 3:31 58	28/7/2016 4:31 59 28/7/2016 4:36 60	29/7/2016 5:36 61 29/7/2016 5:41 61	30/7/2016 6:41 63 30/7/2016 6:46 56	31/7/2016 23:46 44 31/7/2016 23:51 63
25/8/2016 21:56 65	27/7/2016 3:36 59	28/7/2016 4:41 59	29/7/2016 5:46 60	30/7/2016 6:51 63	31/7/2016 23:56 63
25/8/2016 22:01 65	27/7/2016 3:41 59	28/7/2016 4:46 59	29/7/2016 5:51 61	30/7/2016 6:56 54	1/8/2016 0:01 63
25/8/2016 22:06 64 25/8/2016 22:11 64	27/7/2016 3:46 58 27/7/2016 3:51 60	28/7/2016 4:51 60 28/7/2016 4:56 59	29/7/2016 5:56 62 29/7/2016 6:01 63	30/7/2016 23:01 60 30/7/2016 23:06 60	1/8/2016 0:06 62 1/8/2016 0:11 50
25/8/2016 22:16 64	27/7/2016 3:56 60	28/7/2016 5:01 59	29/7/2016 6:06 62	30/7/2016 23:11 58	1/8/2016 0:16 44
25/8/2016 22:21 64 25/8/2016 22:26 65	27/7/2016 4:01 59 27/7/2016 4:06 59	28/7/2016 5:06 59 28/7/2016 5:11 59	29/7/2016 6:11 62 29/7/2016 6:16 62	30/7/2016 23:16 58 30/7/2016 23:21 58	1/8/2016 0:21 62 1/8/2016 0:26 62
25/8/2016 22:31 64	27/7/2016 4:00 59	28/7/2016 5:16 59	29/7/2016 6:10 62	30/7/2016 23:21 38	1/8/2016 0:31 62
25/8/2016 22:36 66	27/7/2016 4:16 59	28/7/2016 5:21 59	29/7/2016 6:26 63	30/7/2016 23:31 57	1/8/2016 0:36 62
25/8/2016 22:41 65 25/8/2016 22:46 64	27/7/2016 4:21 59 27/7/2016 4:26 58	28/7/2016 5:26 60 28/7/2016 5:31 60	29/7/2016 6:31 56 29/7/2016 6:36 53	30/7/2016 23:36 53 30/7/2016 23:41 58	1/8/2016 0:41 62 1/8/2016 0:46 62
25/8/2016 22:51 64	27/7/2016 4:31 60	28/7/2016 5:36 61	29/7/2016 6:41 54	30/7/2016 23:46 57	1/8/2016 0:51 61
25/8/2016 22:56 64 26/8/2016 19:01 63	27/7/2016 4:36 59 27/7/2016 4:41 59	28/7/2016 5:41 61 28/7/2016 5:46 61	29/7/2016 6:46 60 29/7/2016 6:51 59	30/7/2016 23:51 56 30/7/2016 23:56 57	1/8/2016 0:56 62 1/8/2016 1:01 62
26/8/2016 19:06 65	27/7/2016 4:46 59	28/7/2016 5:51 62	29/7/2016 6:56 60	31/7/2016 0:01 54	1/8/2016 1:06 63
26/8/2016 19:11 64	27/7/2016 4:51 60	28/7/2016 5:56 62	29/7/2016 23:01 58	31/7/2016 0:06 56	1/8/2016 1:11 61
26/8/2016 19:16 63 26/8/2016 19:21 62	27/7/2016 4:56 59 27/7/2016 5:01 60	28/7/2016 6:01 62 28/7/2016 6:06 63	29/7/2016 23:06 57 29/7/2016 23:11 59	31/7/2016 0:11 56 31/7/2016 0:16 55	1/8/2016 1:16 61 1/8/2016 1:21 60
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26/8/2016 19:31 62 26/8/2016 19:36 64	27/7/2016 5:11 59 27/7/2016 5:16 60	28/7/2016 6:16 55 28/7/2016 6:21 51	29/7/2016 23:21 59 29/7/2016 23:26 58	31/7/2016 0:26 57 31/7/2016 0:31 63	1/8/2016 1:31 61 1/8/2016 1:36 62
26/8/2016 19:41 65	27/7/2016 5:10 60	28/7/2016 6:26 56	29/7/2016 23:20 56	31/7/2016 0:36 63	1/8/2016 1:41 60
26/8/2016 19:46 65 26/8/2016 19:51 65	27/7/2016 5:26 61 27/7/2016 5:31 61	28/7/2016 6:31 57 28/7/2016 6:36 58	29/7/2016 23:36 57 29/7/2016 23:41 53	31/7/2016 0:41 50 31/7/2016 0:46 63	1/8/2016 1:46 61 1/8/2016 1:51 60
26/8/2016 19:56 65	27/7/2016 5:31 61 27/7/2016 5:36 62	28/7/2016 6:36 58 28/7/2016 6:41 59	29/7/2016 23:41 53 29/7/2016 23:46 55	31/7/2016 0:46 63 31/7/2016 0:51 58	1/8/2016 1:51 60 1/8/2016 1:56 61
26/8/2016 20:01 65	27/7/2016 5:41 61	28/7/2016 6:46 60	29/7/2016 23:51 63	31/7/2016 0:56 63	1/8/2016 2:01 59
26/8/2016 20:06 65 26/8/2016 20:11 64	27/7/2016 5:46 60 27/7/2016 5:51 63	28/7/2016 6:51 60 28/7/2016 6:56 62	29/7/2016 23:56 58 30/7/2016 0:01 63	31/7/2016 1:01 63 31/7/2016 1:06 56	1/8/2016 2:06 59 1/8/2016 2:11 59
26/8/2016 20:16 65	27/7/2016 5:56 62	28/7/2016 23:01 56	30/7/2016 0:06 56	31/7/2016 1:11 63	1/8/2016 2:16 59
26/8/2016 20:21 65 26/8/2016 20:26 65	27/7/2016 6:01 63 27/7/2016 6:06 62	28/7/2016 23:06 60 28/7/2016 23:11 60	30/7/2016 0:11 53 30/7/2016 0:16 59	31/7/2016 1:16 63 31/7/2016 1:21 60	1/8/2016 2:21 60 1/8/2016 2:26 59
26/8/2016 20:31 65	27/7/2016 6:11 62	28/7/2016 23:16 59	30/7/2016 0:21 48	31/7/2016 1:26 62	1/8/2016 2:31 59
26/8/2016 20:36 65 26/8/2016 20:41 65	27/7/2016 6:16 55 27/7/2016 6:21 51	28/7/2016 23:21 60 28/7/2016 23:26 59	30/7/2016 0:26 63 30/7/2016 0:31 56	31/7/2016 1:31 62 31/7/2016 1:36 51	1/8/2016 2:36 59 1/8/2016 2:41 59
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26/8/2016 20:51 64	27/7/2016 6:31 58	28/7/2016 23:36 61	30/7/2016 0:41 63	31/7/2016 1:46 62	1/8/2016 2:51 58
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26/8/2016 21:11 65	27/7/2016 6:51 60	28/7/2016 23:56 55	30/7/2016 1:01 63	31/7/2016 2:06 62	1/8/2016 3:11 58
26/8/2016 21:16 64 26/8/2016 21:21 65	27/7/2016 6:56 63 27/7/2016 23:01 56	29/7/2016 0:01 50 29/7/2016 0:06 54	30/7/2016 1:06 62 30/7/2016 1:11 62	31/7/2016 2:11 62 31/7/2016 2:16 62	1/8/2016 3:16 59 1/8/2016 3:21 58
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26/8/2016 21:51 65 26/8/2016 21:56 65	27/7/2016 23:31 57 27/7/2016 23:36 60	29/7/2016 0:36 63 29/7/2016 0:41 63	30/7/2016 1:41 62 30/7/2016 1:46 62	31/7/2016 2:46 61 31/7/2016 2:51 62	1/8/2016 3:51 60 1/8/2016 3:56 58
26/8/2016 22:01 64	27/7/2016 23:41 59	29/7/2016 0:46 63	30/7/2016 1:51 62	31/7/2016 2:56 62	1/8/2016 4:01 58
26/8/2016 22:06 64 26/8/2016 22:11 64	27/7/2016 23:46 60 27/7/2016 23:51 54	29/7/2016 0:51 63 29/7/2016 0:56 63	30/7/2016 1:56 62 30/7/2016 2:01 62	31/7/2016 3:01 62 31/7/2016 3:06 61	1/8/2016 4:06 58 1/8/2016 4:11 57
26/8/2016 22:16 64	27/7/2016 23:56 54	29/7/2016 1:01 63	30/7/2016 2:06 61	31/7/2016 3:11 61	1/8/2016 4:16 57
26/8/2016 22:21 64 26/8/2016 22:26 65	28/7/2016 0:01 51 28/7/2016 0:06 45	29/7/2016 1:06 63 29/7/2016 1:11 61	30/7/2016 2:11 61 30/7/2016 2:16 61	31/7/2016 3:16 60 31/7/2016 3:21 60	1/8/2016 4:21 58 1/8/2016 4:26 58
26/8/2016 22:31 65	28/7/2016 0:11 53	29/7/2016 1:16 62	30/7/2016 2:21 62	31/7/2016 3:26 61	1/8/2016 4:31 58
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26/8/2016 22:51 64	28/7/2016 0:31 45	29/7/2016 1:36 62	30/7/2016 2:41 62	31/7/2016 3:46 61	1/8/2016 4:51 58
26/8/2016 22:56 65	28/7/2016 0:36 63 28/7/2016 0:41 63	29/7/2016 1:41 61 29/7/2016 1:46 60	30/7/2016 2:46 61 30/7/2016 2:51 60	31/7/2016 3:51 61 31/7/2016 3:56 61	1/8/2016 4:56 58 1/8/2016 5:01 58
	28/7/2016 0:46 62	29/7/2016 1:51 61	30/7/2016 2:56 61	31/7/2016 4:01 60	1/8/2016 5:06 60
	28/7/2016 0:51 62	29/7/2016 1:56 61	30/7/2016 3:01 62	31/7/2016 4:06 60	1/8/2016 5:11 59

Deal time Naise Date	DTNO (Dellermen Kerleykelere Me	Fan Managial Oakaal)			
Real-time Noise Data 1/8/2016 5:16 60	RTN3 (Po Leung Kuk Yu Lee Mo 2/8/2016 6:21 60	3/8/2016 23:26 59	5/8/2016 0:31 65	6/8/2016 1:36 63	7/8/2016 2:41 62
1/8/2016 5:21 59	2/8/2016 6:26 61	3/8/2016 23:31 59	5/8/2016 0:36 65	6/8/2016 1:41 63	7/8/2016 2:46 61
1/8/2016 5:26 59	2/8/2016 6:31 61	3/8/2016 23:36 59	5/8/2016 0:41 65	6/8/2016 1:46 63	7/8/2016 2:51 61
1/8/2016 5:31 60	2/8/2016 6:36 60	3/8/2016 23:41 64	5/8/2016 0:46 65	6/8/2016 1:51 63	7/8/2016 2:56 61
1/8/2016 5:36 60	2/8/2016 6:41 52	3/8/2016 23:46 58	5/8/2016 0:51 64	6/8/2016 1:56 62	7/8/2016 3:01 61
1/8/2016 5:41 60	2/8/2016 6:46 63	3/8/2016 23:51 59	5/8/2016 0:56 65	6/8/2016 2:01 46	7/8/2016 3:06 60
1/8/2016 5:46 60	2/8/2016 6:51 53	3/8/2016 23:56 57	5/8/2016 1:01 64	6/8/2016 2:06 62	7/8/2016 3:11 60
1/8/2016 5:51 61	2/8/2016 6:56 63	4/8/2016 0:01 57	5/8/2016 1:06 62	6/8/2016 2:11 62	7/8/2016 3:16 61
1/8/2016 5:56 62	2/8/2016 23:01 58	4/8/2016 0:06 59	5/8/2016 1:11 62	6/8/2016 2:16 62	7/8/2016 3:21 60
1/8/2016 6:01 61	2/8/2016 23:06 54	4/8/2016 0:11 50	5/8/2016 1:16 64	6/8/2016 2:21 62	7/8/2016 3:26 60
1/8/2016 6:06 62	2/8/2016 23:11 57	4/8/2016 0:16 55	5/8/2016 1:21 62	6/8/2016 2:26 62	7/8/2016 3:31 60
1/8/2016 6:11 62	2/8/2016 23:16 54	4/8/2016 0:21 56	5/8/2016 1:26 62	6/8/2016 2:31 62	7/8/2016 3:36 61
1/8/2016 6:16 62	2/8/2016 23:21 50	4/8/2016 0:26 56	5/8/2016 1:31 63	6/8/2016 2:36 62	7/8/2016 3:41 61
1/8/2016 6:21 51	2/8/2016 23:26 54	4/8/2016 0:31 53	5/8/2016 1:36 63	6/8/2016 2:41 62	7/8/2016 3:46 60
1/8/2016 6:26 53	2/8/2016 23:31 51	4/8/2016 0:36 57	5/8/2016 1:41 61	6/8/2016 2:46 62	7/8/2016 3:51 60
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Pool time Noise Date	RTN3 (Po Leung Kuk Yu Lee Mo	Ean Mamarial Sahaal)			
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Deal time Naise Date	DTN2 /Da Laure Kuk Vul aa Ma	For Mamorial Cohool)			
Real-time Noise Data 15/8/2016 2:16 60	RTN3 (Po Leung Kuk Yu Lee Mo 16/8/2016 3:21 62	17/8/2016 4:26 61	18/8/2016 5:31 62	19/8/2016 6:36 64	20/8/2016 23:41 57
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15/8/2016 23:06 67	17/8/2016 0:11 62	18/8/2016 1:16 60	19/8/2016 2:21 59	20/8/2016 3:26 60	21/8/2016 4:31 61
15/8/2016 23:11 65	17/8/2016 0:16 60	18/8/2016 1:21 60	19/8/2016 2:26 54	20/8/2016 3:31 58	21/8/2016 4:36 58
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16/8/2016 0:41 62	17/8/2016 1:46 63	18/8/2016 2:51 53	19/8/2016 3:56 62	20/8/2016 5:01 58	21/8/2016 6:06 61
16/8/2016 0:46 64	17/8/2016 1:51 55	18/8/2016 2:56 54	19/8/2016 4:01 60	20/8/2016 5:06 61	21/8/2016 6:11 60
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16/8/2016 1:51 58	17/8/2016 2:56 62	18/8/2016 4:01 61	19/8/2016 5:06 46	20/8/2016 6:11 64	21/8/2016 23:16 58
16/8/2016 1:56 57	17/8/2016 3:01 61	18/8/2016 4:06 62	19/8/2016 5:11 56	20/8/2016 6:16 65	21/8/2016 23:21 56
16/8/2016 2:01 57	17/8/2016 3:06 62	18/8/2016 4:11 61	19/8/2016 5:16 45	20/8/2016 6:21 64	21/8/2016 23:26 57
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16/8/2016 2:11 54	17/8/2016 3:16 61	18/8/2016 4:21 63	19/8/2016 5:26 58	20/8/2016 6:31 66	21/8/2016 23:36 56
16/8/2016 2:16 49	17/8/2016 3:21 62	18/8/2016 4:26 62	19/8/2016 5:31 57	20/8/2016 6:36 65	21/8/2016 23:41 54
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16/8/2016 2:31 37	17/8/2016 3:36 62	18/8/2016 4:41 62	19/8/2016 5:46 60	20/8/2016 6:51 67	21/8/2016 23:56 47
16/8/2016 2:36 53	17/8/2016 3:41 60	18/8/2016 4:46 62	19/8/2016 5:51 62	20/8/2016 6:56 67	22/8/2016 0:01 63
16/8/2016 2:41 62	17/8/2016 3:46 63	18/8/2016 4:51 62	19/8/2016 5:56 62	20/8/2016 23:01 59	22/8/2016 0:06 63
16/8/2016 2:46 62	17/8/2016 3:51 62	18/8/2016 4:56 62	19/8/2016 6:01 65	20/8/2016 23:06 59	22/8/2016 0:11 56
16/8/2016 2:51 63	17/8/2016 3:56 61	18/8/2016 5:01 63	19/8/2016 6:06 65	20/8/2016 23:11 59	22/8/2016 0:16 63
16/8/2016 2:56 63	17/8/2016 4:01 61	18/8/2016 5:06 62	19/8/2016 6:11 66	20/8/2016 23:16 59	22/8/2016 0:21 62
16/8/2016 3:01 63	17/8/2016 4:06 62	18/8/2016 5:11 61	19/8/2016 6:16 67	20/8/2016 23:21 58	22/8/2016 0:26 63
16/8/2016 3:06 52	17/8/2016 4:11 62	18/8/2016 5:16 62	19/8/2016 6:21 68	20/8/2016 23:26 59	22/8/2016 0:31 62
16/8/2016 3:11 54	17/8/2016 4:16 61	18/8/2016 5:21 54	19/8/2016 6:26 67	20/8/2016 23:31 58	22/8/2016 0:36 62
16/8/2016 3:16 55	17/8/2016 4:21 61	18/8/2016 5:26 61	19/8/2016 6:31 65	20/8/2016 23:36 60	22/8/2016 0:41 61

Real-time Noise Data 22/8/2016 0:46 62	RTN3 (Po Leung Kuk Yu Lee Mo I 23/8/2016 1:51 61	Fan Memorial School) 24/8/2016 2:56 58	25/8/2016 4:01 58
22/8/2016 0:51 62	23/8/2016 1:56 61	24/8/2016 3:01 60	25/8/2016 4:06 57
22/8/2016 0:56 61 22/8/2016 1:01 60	23/8/2016 2:01 60 23/8/2016 2:06 60	24/8/2016 3:06 58 24/8/2016 3:11 59	25/8/2016 4:11 59 25/8/2016 4:16 57
22/8/2016 1:06 62	23/8/2016 2:11 60	24/8/2016 3:16 58	25/8/2016 4:21 59
22/8/2016 1:11 61 22/8/2016 1:16 61	23/8/2016 2:16 60 23/8/2016 2:21 60	24/8/2016 3:21 58 24/8/2016 3:26 59	25/8/2016 4:26 57 25/8/2016 4:31 59
22/8/2016 1:21 61	23/8/2016 2:26 59	24/8/2016 3:31 59	25/8/2016 4:36 58
22/8/2016 1:26 61 22/8/2016 1:31 61	23/8/2016 2:31 60 23/8/2016 2:36 59	24/8/2016 3:36 58 24/8/2016 3:41 59	25/8/2016 4:41 58 25/8/2016 4:46 59
22/8/2016 1:36 61	23/8/2016 2:41 59	24/8/2016 3:46 58	25/8/2016 4:51 59
22/8/2016 1:41 60 22/8/2016 1:46 61	23/8/2016 2:46 59 23/8/2016 2:51 60	24/8/2016 3:51 53 24/8/2016 3:56 59	25/8/2016 4:56 59 25/8/2016 5:01 58
22/8/2016 1:51 61	23/8/2016 2:56 59	24/8/2016 4:01 58	25/8/2016 5:06 59
22/8/2016 1:56 60 22/8/2016 2:01 60	23/8/2016 3:01 59 23/8/2016 3:06 58	24/8/2016 4:06 59 24/8/2016 4:11 57	25/8/2016 5:11 59 25/8/2016 5:16 59
22/8/2016 2:06 60	23/8/2016 3:06 58 23/8/2016 3:11 59	24/8/2016 4:11 57 24/8/2016 4:16 58	25/8/2016 5:21 59
22/8/2016 2:11 60 22/8/2016 2:16 59	23/8/2016 3:16 59 23/8/2016 3:21 58	24/8/2016 4:21 58	25/8/2016 5:26 59
22/8/2016 2:16 59 22/8/2016 2:21 59	23/8/2016 3:21 58 23/8/2016 3:26 61	24/8/2016 4:26 59 24/8/2016 4:31 59	25/8/2016 5:31 59 25/8/2016 5:36 61
22/8/2016 2:26 59	23/8/2016 3:31 58	24/8/2016 4:36 59	25/8/2016 5:41 61
22/8/2016 2:31 59 22/8/2016 2:36 59	23/8/2016 3:36 59 23/8/2016 3:41 58	24/8/2016 4:41 60 24/8/2016 4:46 59	25/8/2016 5:46 61 25/8/2016 5:51 61
22/8/2016 2:41 58 22/8/2016 2:46 59	23/8/2016 3:46 59 23/8/2016 3:51 59	24/8/2016 4:51 59 24/8/2016 4:56 59	25/8/2016 5:56 61 25/8/2016 6:01 56
22/8/2016 2:46 59 22/8/2016 2:51 58	23/8/2016 3:51 59 23/8/2016 3:56 60	24/8/2016 4:56 59 24/8/2016 5:01 60	25/8/2016 6:01 56 25/8/2016 6:06 60
22/8/2016 2:56 58	23/8/2016 4:01 59	24/8/2016 5:06 58	25/8/2016 6:11 62
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22/8/2016 3:11 58	23/8/2016 4:16 58	24/8/2016 5:21 59	25/8/2016 6:26 52
22/8/2016 3:16 58 22/8/2016 3:21 58	23/8/2016 4:21 58 23/8/2016 4:26 59	24/8/2016 5:26 59 24/8/2016 5:31 61	25/8/2016 6:31 55 25/8/2016 6:36 57
22/8/2016 3:26 58	23/8/2016 4:31 59	24/8/2016 5:36 61	25/8/2016 6:41 58
22/8/2016 3:31 58 22/8/2016 3:36 58	23/8/2016 4:36 59 23/8/2016 4:41 58	24/8/2016 5:41 60 24/8/2016 5:46 61	25/8/2016 6:46 59 25/8/2016 6:51 60
22/8/2016 3:41 58	23/8/2016 4:46 60	24/8/2016 5:51 60	25/8/2016 6:56 61
22/8/2016 3:46 58 22/8/2016 3:51 58	23/8/2016 4:51 58 23/8/2016 4:56 59	24/8/2016 5:56 62 24/8/2016 6:01 61	25/8/2016 23:01 59 25/8/2016 23:06 58
22/8/2016 3:56 59	23/8/2016 5:01 59	24/8/2016 6:06 62	25/8/2016 23:11 56
22/8/2016 4:01 58 22/8/2016 4:06 58	23/8/2016 5:06 59 23/8/2016 5:11 58	24/8/2016 6:11 63 24/8/2016 6:16 63	25/8/2016 23:16 57 25/8/2016 23:21 55
22/8/2016 4:11 57	23/8/2016 5:16 60	24/8/2016 6:21 63	25/8/2016 23:26 60
22/8/2016 4:16 59 22/8/2016 4:21 59	23/8/2016 5:21 59 23/8/2016 5:26 60	24/8/2016 6:26 58 24/8/2016 6:31 58	25/8/2016 23:31 54 25/8/2016 23:36 42
22/8/2016 4:26 57	23/8/2016 5:31 59	24/8/2016 6:36 57	25/8/2016 23:41 50
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22/8/2016 4:41 58	23/8/2016 5:46 61	24/8/2016 6:51 60	25/8/2016 23:56 51
22/8/2016 4:46 58 22/8/2016 4:51 58	23/8/2016 5:51 61 23/8/2016 5:56 62	24/8/2016 6:56 61 24/8/2016 23:01 58	26/8/2016 0:01 51 26/8/2016 0:06 56
22/8/2016 4:56 60	23/8/2016 6:01 63	24/8/2016 23:06 57	26/8/2016 0:11 43
22/8/2016 5:01 59 22/8/2016 5:06 59	23/8/2016 6:06 63 23/8/2016 6:11 62	24/8/2016 23:11 57 24/8/2016 23:16 54	26/8/2016 0:16 45 26/8/2016 0:21 62
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22/8/2016 5:16 60 22/8/2016 5:21 58	23/8/2016 6:21 53 23/8/2016 6:26 58	24/8/2016 23:26 48 24/8/2016 23:31 57	26/8/2016 0:31 63 26/8/2016 0:36 62
22/8/2016 5:26 59	23/8/2016 6:31 60	24/8/2016 23:36 54	26/8/2016 0:41 63
22/8/2016 5:31 60 22/8/2016 5:36 60	23/8/2016 6:36 58 23/8/2016 6:41 59	24/8/2016 23:41 53 24/8/2016 23:46 42	26/8/2016 0:46 63 26/8/2016 0:51 62
22/8/2016 5:41 61	23/8/2016 6:46 59	24/8/2016 23:51 44	26/8/2016 0:56 62
22/8/2016 5:46 61 22/8/2016 5:51 61	23/8/2016 6:51 61 23/8/2016 6:56 62	24/8/2016 23:56 63 25/8/2016 0:01 53	26/8/2016 1:01 55 26/8/2016 1:06 62
22/8/2016 5:56 62	23/8/2016 23:01 62	25/8/2016 0:06 63	26/8/2016 1:11 62
22/8/2016 6:01 62 22/8/2016 6:06 62	23/8/2016 23:06 56 23/8/2016 23:11 53	25/8/2016 0:11 57 25/8/2016 0:16 58	26/8/2016 1:16 62 26/8/2016 1:21 62
22/8/2016 6:11 62	23/8/2016 23:16 56	25/8/2016 0:21 63	26/8/2016 1:26 61
22/8/2016 6:16 52 22/8/2016 6:21 58	23/8/2016 23:21 63 23/8/2016 23:26 53	25/8/2016 0:26 48 25/8/2016 0:31 63	26/8/2016 1:31 61 26/8/2016 1:36 61
22/8/2016 6:26 50	23/8/2016 23:31 46	25/8/2016 0:36 63	26/8/2016 1:41 61
22/8/2016 6:31 58 22/8/2016 6:36 59	23/8/2016 23:36 63 23/8/2016 23:41 63	25/8/2016 0:41 62 25/8/2016 0:46 62	26/8/2016 1:46 61 26/8/2016 1:51 60
22/8/2016 6:41 58	23/8/2016 23:46 63	25/8/2016 0:51 62	26/8/2016 1:56 61
22/8/2016 6:46 61 22/8/2016 6:51 62	23/8/2016 23:51 63 23/8/2016 23:56 63	25/8/2016 0:56 61 25/8/2016 1:01 63	26/8/2016 2:01 60 26/8/2016 2:06 60
22/8/2016 6:56 62	24/8/2016 0:01 49	25/8/2016 1:06 61	26/8/2016 2:11 60
22/8/2016 23:01 58 22/8/2016 23:06 56	24/8/2016 0:06 51 24/8/2016 0:11 63	25/8/2016 1:11 62 25/8/2016 1:16 60	26/8/2016 2:16 60 26/8/2016 2:21 63
22/8/2016 23:11 72	24/8/2016 0:16 63	25/8/2016 1:21 61	26/8/2016 2:26 60
22/8/2016 23:16 55 22/8/2016 23:21 59	24/8/2016 0:21 62 24/8/2016 0:26 63	25/8/2016 1:26 61 25/8/2016 1:31 61	26/8/2016 2:31 61 26/8/2016 2:36 60
22/8/2016 23:26 56	24/8/2016 0:31 63	25/8/2016 1:36 60	26/8/2016 2:41 60
22/8/2016 23:31 54 22/8/2016 23:36 53	24/8/2016 0:36 63 24/8/2016 0:41 62	25/8/2016 1:41 60 25/8/2016 1:46 60	26/8/2016 2:46 60 26/8/2016 2:51 59
22/8/2016 23:41 63	24/8/2016 0:46 62	25/8/2016 1:51 59	26/8/2016 2:56 60
22/8/2016 23:46 63 22/8/2016 23:51 45	24/8/2016 0:51 61 24/8/2016 0:56 62	25/8/2016 1:56 60 25/8/2016 2:01 59	26/8/2016 3:01 58 26/8/2016 3:06 59
22/8/2016 23:56 63	24/8/2016 1:01 61	25/8/2016 2:06 59	26/8/2016 3:11 59
23/8/2016 0:01 63 23/8/2016 0:06 45	24/8/2016 1:06 61 24/8/2016 1:11 61	25/8/2016 2:11 59 25/8/2016 2:16 59	26/8/2016 3:16 59 26/8/2016 3:21 59
23/8/2016 0:11 56	24/8/2016 1:16 61	25/8/2016 2:21 60	26/8/2016 3:26 58
23/8/2016 0:16 63 23/8/2016 0:21 63	24/8/2016 1:21 61 24/8/2016 1:26 61	25/8/2016 2:26 58 25/8/2016 2:31 58	26/8/2016 3:31 58 26/8/2016 3:36 59
23/8/2016 0:26 63	24/8/2016 1:31 62	25/8/2016 2:36 59	26/8/2016 3:41 59
23/8/2016 0:31 62 23/8/2016 0:36 44	24/8/2016 1:36 61 24/8/2016 1:41 60	25/8/2016 2:41 58 25/8/2016 2:46 59	26/8/2016 3:46 59 26/8/2016 3:51 58
23/8/2016 0:41 63	24/8/2016 1:46 60	25/8/2016 2:51 59	26/8/2016 3:56 58
23/8/2016 0:46 62 23/8/2016 0:51 62	24/8/2016 1:51 60 24/8/2016 1:56 59	25/8/2016 2:56 58 25/8/2016 3:01 58	26/8/2016 4:01 59 26/8/2016 4:06 58
23/8/2016 0:56 63	24/8/2016 2:01 60	25/8/2016 3:06 58	26/8/2016 4:11 58
23/8/2016 1:01 62 23/8/2016 1:06 61	24/8/2016 2:06 60 24/8/2016 2:11 60	25/8/2016 3:11 59 25/8/2016 3:16 59	26/8/2016 4:16 58 26/8/2016 4:21 58
23/8/2016 1:11 62	24/8/2016 2:16 60	25/8/2016 3:21 57	26/8/2016 4:26 59
23/8/2016 1:16 61 23/8/2016 1:21 61	24/8/2016 2:21 60 24/8/2016 2:26 59	25/8/2016 3:26 58 25/8/2016 3:31 58	26/8/2016 4:31 59 26/8/2016 4:36 59
23/8/2016 1:26 61	24/8/2016 2:31 60	25/8/2016 3:36 60	26/8/2016 4:41 59
23/8/2016 1:31 61 23/8/2016 1:36 60	24/8/2016 2:36 59 24/8/2016 2:41 61	25/8/2016 3:41 58 25/8/2016 3:46 58	26/8/2016 4:46 59 26/8/2016 4:51 59
23/8/2016 1:41 62	24/8/2016 2:46 59	25/8/2016 3:51 59	26/8/2016 4:56 58
23/8/2016 1:46 60	24/8/2016 2:51 59	25/8/2016 3:56 59	26/8/2016 5:01 59

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	Real-time Noise Data	RTN4 (Causeway Bay Communi	ty Control			
2777218   10   10   10   10   10   10   10		1/8/2016 12:31 68	6/8/2016 7:01 67			
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27/77/01 (4-0) 60						
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3077/2016 16:31 67 3077/2016 16:01 55 5/8/2016 10:01 64 10/8/2016 17:01 71 16/8/2016 11:01 61 20/8/2016 11:31 62 26/8/2016 12:01 67 3077/2016 16:31 54 5/8/2016 11:01 61 10/8/2016 17:31 63 3077/2016 16:31 54 5/8/2016 11:31 54 10/8/2016 18:01 68 3077/2016 17:01 59 5/8/2016 11:31 54 10/8/2016 18:01 68 3077/2016 17:01 59 5/8/2016 12:01 69 10/8/2016 18:01 66 16/8/2016 13:01 63 22/8/2016 7:01 68 26/8/2016 13:01 63 22/8/2016 7:01 68 26/8/2016 13:01 63 22/8/2016 7:01 68 26/8/2016 13:01 63 22/8/2016 7:01 68 26/8/2016 13:01 63 22/8/2016 7:01 68 26/8/2016 13:01 63 22/8/2016 7:01 68 26/8/2016 13:01 63 22/8/2016 8:31 67 26/8/2016 13:01 63 22/8/2016 8:31 62 22/8/2016 8:31 62 22/8/2016 8:31 62 22/8/2016 8:31 62 26/8/2016 15:01 68 26/8/2016 15:01 68 26/8/2016 15:01 68 26/8/2016 15:01 68 22/8/2016 8:31 62 22/8/2016 8:31 62 22/8/2016 8:31 62 22/8/2016 8:31 62 22/8/2016 8:31 62 22/8/2016 8:31 62 22/8/2016 8:31 62 22/8/2016 8:31 62 22/8/2016 8:31 62 22/8/2016 8:31 65 26/8/2016 15:01 67 1/8/2016 8:01 67 5/8/2016 14:31 64 11/8/2016 8:01 67 5/8/2016 14:31 62 11/8/2016 8:01 67 5/8/2016 15:01 61 11/8/2016 8:01 67 5/8/2016 15:01 61 11/8/2016 9:01 61 11/8/2016 9:31 67 11/8/2016 9:31 60 5/8/2016 15:01 61 11/8/2016 9:31 67 11/8/2016 9:31 60 5/8/2016 16:01 69 11/8/2016 10:01 63 5/8/2016 16:01 69 11/8/2016 10:01 77 16/8/2016 16:01 63 22/8/2016 11:01 70 26/8/2016 18:01 63 11/8/2016 10:01 63 5/8/2016 16:01 69 11/8/2016 10:01 77 16/8/2016 18:01 68 22/8/2016 12:01 67 22/8/2016 12:01 67 26/8/2016 18:01 63 11/8/2016 10:01 68 11/8/2016 11:01 68 22/8/2016 13:01 68 11/8/2016 10:01 68 22/8/2016 13:01 68 11/8/2016 11:01 62 22/8/2016 13:01 68 11/8/2016 11:01 68	30/7/2016 14:31 58	5/8/2016 9:01 57	10/8/2016 15:31 64	16/8/2016 10:01 59	20/8/2016 16:31 68	26/8/2016 11:01 68
30/7/2016 16:31 54 5/8/2016 11:01 61 10/8/2016 17:31 63 16/8/2016 12:01 67 20/8/2016 18:31 67 26/8/2016 13:01 68 30/7/2016 17:01 59 5/8/2016 12:01 69 10/8/2016 18:31 66 16/8/2016 13:01 63 22/8/2016 7:01 68 26/8/2016 13:31 69 30/7/2016 18:01 68 5/8/2016 12:01 55 11/8/2016 7:01 68 16/8/2016 13:01 63 22/8/2016 8:01 66 26/8/2016 14:01 68 30/7/2016 18:31 69 5/8/2016 13:31 55 11/8/2016 7:01 68 16/8/2016 13:31 63 22/8/2016 8:01 66 26/8/2016 14:01 68 22/8/2016 8:01 60 26/8/2016 13:01 69 18/2016 7:01 69 5/8/2016 13:31 62 11/8/2016 7:01 69 18/2016 7:01 69 5/8/2016 13:31 62 11/8/2016 8:01 50 16/8/2016 14:01 68 22/8/2016 8:01 69 26/8/2016 15:01 69 18/2016 7:01 69 5/8/2016 14:01 64 11/8/2016 8:01 50 16/8/2016 15:01 68 22/8/2016 9:01 69 26/8/2016 15:01 69 18/2016 8:31 69 5/8/2016 14:01 64 11/8/2016 9:01 61 16/8/2016 15:01 68 22/8/2016 9:01 67 5/8/2016 15:01 61 11/8/2016 9:01 61 16/8/2016 15:01 62 22/8/2016 10:01 67 26/8/2016 17:01 69 1/8/2016 9:01 68 5/8/2016 15:01 61 11/8/2016 9:01 75 16/8/2016 16:01 62 22/8/2016 10:01 67 26/8/2016 17:01 60 1/8/2016 9:01 68 5/8/2016 16:01 69 11/8/2016 10:01 75 16/8/2016 16:01 62 22/8/2016 10:01 67 26/8/2016 17:01 64 11/8/2016 9:01 63 5/8/2016 16:01 69 11/8/2016 10:01 75 16/8/2016 16:01 62 22/8/2016 11:01 70 26/8/2016 17:01 64 18/2016 9:01 63 5/8/2016 16:01 69 11/8/2016 10:01 77 16/8/2016 17:01 62 22/8/2016 11:01 70 26/8/2016 18:01 67 1/8/2016 10:01 68 5/8/2016 16:01 65 5/8/2016 16:01 65 5/8/2016 11:01 77 16/8/2016 18:01 68 22/8/2016 12:01 67 26/8/2016 18:01 67 1/8/2016 10:01 68 5/8/2016 17:01 66 5/8/2016 11:01 55 11/8/2016 12:01 68 5/8/2016 11:01 55 5/8/2016 18:01 60 11/8/2016 12:01 68 5/8/2016 18:01 60 11/8/2016 12:01 68 5/8/2016 18:01 60 11/8/2016 12:01 68 5/8/2016 18:01 60 11/8/2016 12:01 68 5/8/2016 18:01 60 11/8/2016 12:01 68 5/8/2016 18:01 60 11/8/2016 12:01 68 5/8/2016 18:01 60 11/8/2016 12:01 68 5/8/2016 18:01 60 11/8/2016 12:01 68 5/8/2016 18:01 60 11/8/2016 12:01 68 5/8/2016 18:01 60 11/8/2016 12:01 68 5/8/2016 18:01 60 11/8/2016 12:01 68 5/8/2016 13:01 60 11/8/2016 12:01 68 5/8/2	30/7/2016 15:31 67	5/8/2016 10:01 64	10/8/2016 16:31 71	16/8/2016 11:01 61	20/8/2016 17:31 62	26/8/2016 12:01 67
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1/8/2016 7:01         69         5/8/2016 13:31         62         11/8/2016 8:01         59         16/8/2016 14:31         64         22/8/2016 9:01         69         26/8/2016 15:31         69           1/8/2016 8:01         67         5/8/2016 14:31         62         11/8/2016 9:01         61         11/8/2016 9:01         61         22/8/2016 15:01         65         26/8/2016 16:01         67         26/8/2016 16:01         67         26/8/2016 16:01         67         26/8/2016 15:01         61         11/8/2016 9:01         61         11/8/2016 9:01         61         11/8/2016 9:01         61         11/8/2016 9:01         61         22/8/2016 15:01         62         22/8/2016 10:31         67         26/8/2016 17:01         60           1/8/2016 9:31         69         5/8/2016 15:31         64         11/8/2016 9:31         67         16/8/2016 16:01         62         22/8/2016 10:31         67         26/8/2016 17:01         60           1/8/2016 9:31         60         5/8/2016 15:31         64         11/8/2016 10:31         75         16/8/2016 16:31         59         22/8/2016 11:01         70         26/8/2016 17:01         60           1/8/2016 10:01         63         5/8/2016 16:31         66         11/8/2016 11:01         77         16/8/2016	30/7/2016 18:01 68	5/8/2016 12:31 55	11/8/2016 7:01 68	16/8/2016 13:31 63	22/8/2016 8:01 66	26/8/2016 14:31 64
1/8/2016 8:01         67         5/8/2016 14:31         62         11/8/2016 9:01         61         16/8/2016 15:31         68         22/8/2016 10:01         67         26/8/2016 16:31         69           1/8/2016 8:31         69         5/8/2016 15:01         61         11/8/2016 16:01         62         22/8/2016 10:01         67         26/8/2016 16:31         69           1/8/2016 9:01         68         5/8/2016 15:31         64         11/8/2016 10:01         75         16/8/2016 16:31         59         22/8/2016 11:01         70         26/8/2016 17:31         64           1/8/2016 9:31         60         5/8/2016 16:01         69         11/8/2016 10:31         79         16/8/2016 17:31         55         22/8/2016 11:01         70         26/8/2016 18:01         67           1/8/2016 10:01         63         5/8/2016 16:31         66         11/8/2016 11:01         77         16/8/2016 17:31         55         22/8/2016 12:01         67         26/8/2016 18:31         63           1/8/2016 11:01         66         5/8/2016 17:31         62         11/8/2016 18:01         68         22/8/2016 18:01         68         22/8/2016 18:01         68           1/8/2016 11:31         58         5/8/2016 18:01         60         11/8/2016 12:01	1/8/2016 7:01 69	5/8/2016 13:31 62	11/8/2016 8:01 59	16/8/2016 14:31 64	22/8/2016 9:01 69	26/8/2016 15:31 69
1/8/2016 8:31         69         5/8/2016 15:01         61         11/8/2016 9:31         67         16/8/2016 16:01         62         22/8/2016 10:31         67         26/8/2016 16:01         62         22/8/2016 10:31         67         26/8/2016 16:01         60         5/8/2016 15:31         64         11/8/2016 10:01         75         16/8/2016 16:31         59         22/8/2016 11:01         70         26/8/2016 17:01         62         22/8/2016 11:01         70         26/8/2016 18:01         64         26/8/2016 10:01         75         16/8/2016 10:31         79         16/8/2016 10:31         75         22/8/2016 11:01         70         26/8/2016 18:01         67         26/8/2016 18:01         67         26/8/2016 18:01         67         26/8/2016 18:01         67         26/8/2016 18:01         68         22/8/2016 12:01         67         26/8/2016 18:31         63         68         11/8/2016 11:01         77         16/8/2016 18:01         68         22/8/2016 12:01         67         26/8/2016 18:31         63           1/8/2016 11:01         66         5/8/2016 17:01         66         11/8/2016 12:01         62         16/8/2016 18:01         68         22/8/2016 12:31         68         22/8/2016 13:31         72           1/8/2016 11:31         58         5/8/2016 18:						
1/8/2016 9:31     60     5/8/2016 16:01     69     11/8/2016 10:31     79     16/8/2016 17:01     62     22/8/2016 11:31     65     26/8/2016 18:01     67       1/8/2016 10:01     63     5/8/2016 16:31     66     11/8/2016 11:01     77     16/8/2016 17:31     55     22/8/2016 12:01     67       1/8/2016 11:01     66     5/8/2016 17:01     66     11/8/2016 11:01     62     16/8/2016 18:01     68     22/8/2016 12:31     68       1/8/2016 11:01     66     5/8/2016 17:31     55     11/8/2016 12:01     68     16/8/2016 18:31     65     22/8/2016 13:01     68       1/8/2016 11:31     58     5/8/2016 18:01     60     11/8/2016 12:31     68     17/8/2016 7:01     68     22/8/2016 13:31     72	1/8/2016 8:31 69	5/8/2016 15:01 61	11/8/2016 9:31 67	16/8/2016 16:01 62	22/8/2016 10:31 67	26/8/2016 17:01 60
1/8/2016 10:31     68     5/8/2016 17:01     66     11/8/2016 11:31     62     16/8/2016 18:01     68     22/8/2016 12:31     68       1/8/2016 11:01     66     5/8/2016 17:31     55     11/8/2016 12:01     68     16/8/2016 18:31     65     22/8/2016 13:01     68       1/8/2016 11:31     58     5/8/2016 18:01     60     11/8/2016 12:31     68     17/8/2016 7:01     68     22/8/2016 13:31     72	1/8/2016 9:31 60	5/8/2016 16:01 69	11/8/2016 10:31 79	16/8/2016 17:01 62	22/8/2016 11:31 65	26/8/2016 18:01 67
1/8/2016 11:31 58 5/8/2016 18:01 60 11/8/2016 12:31 68 17/8/2016 7:01 68 22/8/2016 13:31 72	1/8/2016 10:31 68	5/8/2016 17:01 66	11/8/2016 11:31 62	16/8/2016 18:01 68	22/8/2016 12:31 68	26/8/2016 18:31 63
						I

Real-time Noise Data	RTN4 (Causeway Bay Community	Centre)			
Normal Day 19:00-23:00,	29/7/2016 19:46 58	31/7/2016 8:51 64	31/7/2016 17:56 67	2/8/2016 19:01 68	4/8/2016 20:06 68
Sunday & Holiday 07:00-23:00	29/7/2016 19:51 63 29/7/2016 19:56 64	31/7/2016 8:56 64 31/7/2016 9:01 65	31/7/2016 18:01 67 31/7/2016 18:06 67	2/8/2016 19:06 67 2/8/2016 19:11 67	4/8/2016 20:11 68 4/8/2016 20:16 68
07.00-23.00	29/7/2016 19:36 64 29/7/2016 20:01 66	31/7/2016 9:01 63	31/7/2016 18:06 67	2/8/2016 19:11 67	4/8/2016 20:10 68
27/7/2016 19:01 68	29/7/2016 20:06 66	31/7/2016 9:11 67	31/7/2016 18:16 68	2/8/2016 19:21 65	4/8/2016 20:26 67
27/7/2016 19:06 68 27/7/2016 19:11 67	29/7/2016 20:11 67 29/7/2016 20:16 67	31/7/2016 9:16 68 31/7/2016 9:21 67	31/7/2016 18:21 67 31/7/2016 18:26 66	2/8/2016 19:26 64 2/8/2016 19:31 65	4/8/2016 20:31 67 4/8/2016 20:36 67
27/7/2016 19:11 67	29/7/2016 20:16 67 29/7/2016 20:21 67	31/7/2016 9:21 67	31/7/2016 18:26 66	2/8/2016 19:31 63	4/8/2016 20:41 67
27/7/2016 19:21 67	29/7/2016 20:26 67	31/7/2016 9:31 67	31/7/2016 18:36 65	2/8/2016 19:41 68	4/8/2016 20:46 67
27/7/2016 19:26 67 27/7/2016 19:31 68	29/7/2016 20:31 67 29/7/2016 20:36 67	31/7/2016 9:36 67 31/7/2016 9:41 67	31/7/2016 18:41 64 31/7/2016 18:46 65	2/8/2016 19:46 67 2/8/2016 19:51 67	4/8/2016 20:51 67 4/8/2016 20:56 67
27/7/2016 19:36 67	29/7/2016 20:30 67	31/7/2016 9:46 67	31/7/2016 18:51 66	2/8/2016 19:56 66	4/8/2016 21:01 66
27/7/2016 19:41 68	29/7/2016 20:46 66	31/7/2016 9:51 68	31/7/2016 18:56 68	2/8/2016 20:01 67	4/8/2016 21:06 66
27/7/2016 19:46 68 27/7/2016 19:51 68	29/7/2016 20:51 67 29/7/2016 20:56 67	31/7/2016 9:56 67 31/7/2016 10:01 67	31/7/2016 19:01 67 31/7/2016 19:06 67	2/8/2016 20:06 67 2/8/2016 20:11 67	4/8/2016 21:11 67 4/8/2016 21:16 67
27/7/2016 19:56 67	29/7/2016 21:01 67	31/7/2016 10:06 67	31/7/2016 19:11 66	2/8/2016 20:16 66	4/8/2016 21:21 68
27/7/2016 20:01 68	29/7/2016 21:06 67	31/7/2016 10:11 66	31/7/2016 19:16 67	2/8/2016 20:21 66	4/8/2016 21:26 67
27/7/2016 20:06 67 27/7/2016 20:11 66	29/7/2016 21:11 67 29/7/2016 21:16 65	31/7/2016 10:16 67 31/7/2016 10:21 66	31/7/2016 19:21 66 31/7/2016 19:26 66	2/8/2016 20:26 67 2/8/2016 20:31 67	4/8/2016 21:31 68 4/8/2016 21:36 66
27/7/2016 20:16 65	29/7/2016 21:21 65	31/7/2016 10:26 66	31/7/2016 19:31 67	2/8/2016 20:36 67	4/8/2016 21:41 66
27/7/2016 20:21 65	29/7/2016 21:26 65	31/7/2016 10:31 66	31/7/2016 19:36 66	2/8/2016 20:41 67 2/8/2016 20:46 67	4/8/2016 21:46 66 4/8/2016 21:51 67
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7/8/2016 9:16	67	7/8/2016 18:21	66	9/8/2016 19:26 66	11/8/2016 20:31 67	13/8/2016 21:36 64	14/8/2016 14:41 64
7/8/2016 9:21 7/8/2016 9:26	68 68		66 64	9/8/2016 19:31 66 9/8/2016 19:36 66	11/8/2016 20:36 67 11/8/2016 20:41 67	13/8/2016 21:41 64 13/8/2016 21:46 63	14/8/2016 14:46 64 14/8/2016 14:51 64
7/8/2016 9:31	68	7/8/2016 18:36	65	9/8/2016 19:41 67	11/8/2016 20:46 68	13/8/2016 21:51 62	14/8/2016 14:56 65
7/8/2016 9:36 7/8/2016 9:41	66 66		64 65	9/8/2016 19:46 67 9/8/2016 19:51 68	11/8/2016 20:51 67 11/8/2016 20:56 67	13/8/2016 21:56 63 13/8/2016 22:01 63	14/8/2016 15:01 66 14/8/2016 15:06 63
7/8/2016 9:46	66	7/8/2016 18:51	64	9/8/2016 19:56 68	11/8/2016 21:01 68	13/8/2016 22:06 63	14/8/2016 15:11 67
7/8/2016 9:51 7/8/2016 9:56	66 66		64 65	9/8/2016 20:01 67 9/8/2016 20:06 67	11/8/2016 21:06 68 11/8/2016 21:11 68	13/8/2016 22:11 63 13/8/2016 22:16 63	14/8/2016 15:16 64 14/8/2016 15:21 65
7/8/2016 10:01	67	7/8/2016 19:06	65	9/8/2016 20:11 67	11/8/2016 21:16 68	13/8/2016 22:21 63	14/8/2016 15:26 64
7/8/2016 10:06 7/8/2016 10:11	67 67		65 64	9/8/2016 20:16 67 9/8/2016 20:21 67	11/8/2016 21:21 67 11/8/2016 21:26 68	13/8/2016 22:26 64 13/8/2016 22:31 63	14/8/2016 15:31 64 14/8/2016 15:36 64
7/8/2016 10:16	66	7/8/2016 19:21	65	9/8/2016 20:26 67	11/8/2016 21:31 68	13/8/2016 22:36 63	14/8/2016 15:41 65
	68 68		64 64	9/8/2016 20:31 66 9/8/2016 20:36 65	11/8/2016 21:36 68 11/8/2016 21:41 67	13/8/2016 22:41 64 13/8/2016 22:46 64	14/8/2016 15:46 64 14/8/2016 15:51 63
7/8/2016 10:31	67	7/8/2016 19:36	63	9/8/2016 20:41 66	11/8/2016 21:46 67	13/8/2016 22:51 64	14/8/2016 15:56 65
7/8/2016 10:36 7/8/2016 10:41	68 68		56 62	9/8/2016 20:46 67 9/8/2016 20:51 68	11/8/2016 21:51 67 11/8/2016 21:56 66	13/8/2016 22:56 62 14/8/2016 7:01 64	14/8/2016 16:01 65 14/8/2016 16:06 64
7/8/2016 10:46	68		65	9/8/2016 20:56 67	11/8/2016 22:01 66	14/8/2016 7:06 62	14/8/2016 16:11 62
7/8/2016 10:51 7/8/2016 10:56	66 67		66 63	9/8/2016 21:01 67 9/8/2016 21:06 67	11/8/2016 22:06 67 11/8/2016 22:11 66	14/8/2016 7:11 61 14/8/2016 7:16 60	14/8/2016 16:16 64 14/8/2016 16:21 64
7/8/2016 11:01	68		64	9/8/2016 21:11 67 9/8/2016 21:16 68	11/8/2016 22:16 66 11/8/2016 22:21 65	14/8/2016 7:21 62 14/8/2016 7:26 61	14/8/2016 16:26 65
7/8/2016 11:06 7/8/2016 11:11	67 68		64 64	9/8/2016 21:16 68 9/8/2016 21:21 67	11/8/2016 22:21 65	14/8/2016 7:26 61 14/8/2016 7:31 61	14/8/2016 16:31 64 14/8/2016 16:36 64
7/8/2016 11:16 7/8/2016 11:21	67 66		64 64	9/8/2016 21:26 67 9/8/2016 21:31 67	11/8/2016 22:31 65 11/8/2016 22:36 67	14/8/2016 7:36 61 14/8/2016 7:41 62	14/8/2016 16:41 65 14/8/2016 16:46 64
7/8/2016 11:26	66		64	9/8/2016 21:36 67	11/8/2016 22:41 66	14/8/2016 7:46 63	14/8/2016 16:51 65
7/8/2016 11:31 7/8/2016 11:36	66 66		65 65	9/8/2016 21:41 67 9/8/2016 21:46 67	11/8/2016 22:46 66 11/8/2016 22:51 66	14/8/2016 7:51 63 14/8/2016 7:56 62	14/8/2016 16:56 65 14/8/2016 17:01 65
7/8/2016 11:41	66	7/8/2016 20:46	64	9/8/2016 21:51 66	11/8/2016 22:56 66	14/8/2016 8:01 59	14/8/2016 17:06 65
7/8/2016 11:46 7/8/2016 11:51	65 65		64 65	9/8/2016 21:56 66 9/8/2016 22:01 66	12/8/2016 19:01 63 12/8/2016 19:06 60	14/8/2016 8:06 63 14/8/2016 8:11 64	14/8/2016 17:11 65 14/8/2016 17:16 65
7/8/2016 11:56	64	7/8/2016 21:01	66	9/8/2016 22:06 66	12/8/2016 19:11 57	14/8/2016 8:16 62	14/8/2016 17:21 65
7/8/2016 12:01 7/8/2016 12:06	66 66		65 64	9/8/2016 22:11 65 9/8/2016 22:16 67	12/8/2016 19:16 59 12/8/2016 19:21 64	14/8/2016 8:21 63 14/8/2016 8:26 64	14/8/2016 17:26 66 14/8/2016 17:31 65
7/8/2016 12:11	66	7/8/2016 21:16	63	9/8/2016 22:21 66	12/8/2016 19:26 66	14/8/2016 8:31 64	14/8/2016 17:36 66
7/8/2016 12:16 7/8/2016 12:21	66 66		65 65	9/8/2016 22:26 66 9/8/2016 22:31 66	12/8/2016 19:31 67 12/8/2016 19:36 67	14/8/2016 8:36 64 14/8/2016 8:41 62	14/8/2016 17:41 65 14/8/2016 17:46 65
7/8/2016 12:26	65	7/8/2016 21:31	64	9/8/2016 22:36 66	12/8/2016 19:41 67	14/8/2016 8:46 64	14/8/2016 17:51 65
7/8/2016 12:31 7/8/2016 12:36	65 65		67 65	9/8/2016 22:41 65 9/8/2016 22:46 65	12/8/2016 19:46 67 12/8/2016 19:51 67	14/8/2016 8:51 63 14/8/2016 8:56 64	14/8/2016 17:56 65 14/8/2016 18:01 64
7/8/2016 12:41	66	7/8/2016 21:46	65	9/8/2016 22:51 65	12/8/2016 19:56 67	14/8/2016 9:01 65	14/8/2016 18:06 65
7/8/2016 12:46 7/8/2016 12:51	66 66		67 66	9/8/2016 22:56 64 10/8/2016 19:01 63	12/8/2016 20:01 67 12/8/2016 20:06 67	14/8/2016 9:06 63 14/8/2016 9:11 64	14/8/2016 18:11 65 14/8/2016 18:16 65
7/8/2016 12:56	65	7/8/2016 22:01	67	10/8/2016 19:06 64	12/8/2016 20:11 66	14/8/2016 9:16 67	14/8/2016 18:21 65
7/8/2016 13:01 7/8/2016 13:06	66 66		66 66	10/8/2016 19:11 63 10/8/2016 19:16 63	12/8/2016 20:16 67 12/8/2016 20:21 67	14/8/2016 9:21 68 14/8/2016 9:26 68	14/8/2016 18:26 65 14/8/2016 18:31 65
7/8/2016 13:11	67	7/8/2016 22:16	66	10/8/2016 19:21 66	12/8/2016 20:26 67	14/8/2016 9:31 67	14/8/2016 18:36 65
7/8/2016 13:16 7/8/2016 13:21	67 68		67 66	10/8/2016 19:26 67 10/8/2016 19:31 67	12/8/2016 20:31 67 12/8/2016 20:36 67	14/8/2016 9:36 67 14/8/2016 9:41 66	14/8/2016 18:41 64 14/8/2016 18:46 64
7/8/2016 13:26	69	7/8/2016 22:31	66	10/8/2016 19:36 67	12/8/2016 20:41 67	14/8/2016 9:46 67	14/8/2016 18:51 65
7/8/2016 13:31 7/8/2016 13:36	66 65		66 67	10/8/2016 19:41 68 10/8/2016 19:46 68	12/8/2016 20:46 67 12/8/2016 20:51 67	14/8/2016 9:51 66 14/8/2016 9:56 67	14/8/2016 18:56 63 14/8/2016 19:01 64
7/8/2016 13:41	66	7/8/2016 22:46	66	10/8/2016 19:51 68	12/8/2016 20:56 67	14/8/2016 10:01 67	14/8/2016 19:06 64
7/8/2016 13:46 7/8/2016 13:51	66 66		65 66	10/8/2016 19:56 68 10/8/2016 20:01 67	12/8/2016 21:01 67 12/8/2016 21:06 68	14/8/2016 10:06 67 14/8/2016 10:11 66	14/8/2016 19:11 64 14/8/2016 19:16 63
7/8/2016 13:56	66	8/8/2016 19:01	43	10/8/2016 20:06 66	12/8/2016 21:11 67	14/8/2016 10:16 66	14/8/2016 19:21 63
7/8/2016 14:01 7/8/2016 14:06	67 68		62 66	10/8/2016 20:11 66 10/8/2016 20:16 66	12/8/2016 21:16 66 12/8/2016 21:21 64	14/8/2016 10:21 66 14/8/2016 10:26 65	14/8/2016 19:26 62 14/8/2016 19:31 63
7/8/2016 14:11	68		67	10/8/2016 20:21 68	12/8/2016 21:26 64	14/8/2016 10:31 64	14/8/2016 19:36 63

Real-time Noise Data	RTN4 (Causeway Bay Communit			1	
14/8/2016 19:41 63	16/8/2016 20:46 68	18/8/2016 21:51 65	20/8/2016 22:56 65	21/8/2016 16:01 63	22/8/2016 21:06 65
14/8/2016 19:46 63	16/8/2016 20:51 68	18/8/2016 21:56 65	21/8/2016 7:01 66	21/8/2016 16:06 62	22/8/2016 21:11 65
14/8/2016 19:51 60	16/8/2016 20:56 67	18/8/2016 22:01 66	21/8/2016 7:06 68	21/8/2016 16:11 68	22/8/2016 21:16 64
14/8/2016 19:56 63	16/8/2016 21:01 67	18/8/2016 22:06 66	21/8/2016 7:11 69	21/8/2016 16:16 67	22/8/2016 21:21 62
14/8/2016 20:01 62	16/8/2016 21:06 66	18/8/2016 22:11 66	21/8/2016 7:16 68	21/8/2016 16:21 68	22/8/2016 21:26 65
14/8/2016 20:06 62	16/8/2016 21:11 67	18/8/2016 22:16 65	21/8/2016 7:21 70	21/8/2016 16:26 67	22/8/2016 21:31 62
14/8/2016 20:11 63	16/8/2016 21:16 67	18/8/2016 22:21 65	21/8/2016 7:26 69	21/8/2016 16:31 66	22/8/2016 21:36 63
14/8/2016 20:16 63	16/8/2016 21:21 67	18/8/2016 22:26 65	21/8/2016 7:31 68	21/8/2016 16:36 67	22/8/2016 21:41 62
14/8/2016 20:21 63	16/8/2016 21:26 67	18/8/2016 22:31 65	21/8/2016 7:36 66	21/8/2016 16:41 66	22/8/2016 21:46 63
14/8/2016 20:26 62	16/8/2016 21:31 67	18/8/2016 22:36 64	21/8/2016 7:41 66	21/8/2016 16:46 66	22/8/2016 21:51 63
14/8/2016 20:31 63	16/8/2016 21:36 67	18/8/2016 22:41 64	21/8/2016 7:46 64	21/8/2016 16:51 66	22/8/2016 21:56 63
14/8/2016 20:36 63	16/8/2016 21:41 66	18/8/2016 22:46 64	21/8/2016 7:51 65	21/8/2016 16:56 67	22/8/2016 22:01 63
14/8/2016 20:41 64	16/8/2016 21:46 65	18/8/2016 22:51 66	21/8/2016 7:56 63	21/8/2016 17:01 66	22/8/2016 22:06 62
14/8/2016 20:46 63	16/8/2016 21:51 65	18/8/2016 22:56 65	21/8/2016 8:01 64	21/8/2016 17:06 67	22/8/2016 22:11 64
14/8/2016 20:51 62	16/8/2016 21:56 63	19/8/2016 19:01 59	21/8/2016 8:06 64	21/8/2016 17:11 67	22/8/2016 22:16 64
14/8/2016 20:56 62	16/8/2016 22:01 64	19/8/2016 19:06 63	21/8/2016 8:11 67	21/8/2016 17:16 67	22/8/2016 22:21 63
14/8/2016 21:01 61	16/8/2016 22:06 64	19/8/2016 19:11 51	21/8/2016 8:16 68	21/8/2016 17:21 67	22/8/2016 22:26 63
14/8/2016 21:06 62	16/8/2016 22:11 64	19/8/2016 19:16 65	21/8/2016 8:21 68	21/8/2016 17:26 66	22/8/2016 22:31 65
14/8/2016 21:11 62	16/8/2016 22:16 64	19/8/2016 19:21 63	21/8/2016 8:26 66	21/8/2016 17:31 66	22/8/2016 22:36 64
14/8/2016 21:16 61	16/8/2016 22:21 65	19/8/2016 19:26 65	21/8/2016 8:31 67	21/8/2016 17:36 65	22/8/2016 22:41 64
14/8/2016 21:21 60	16/8/2016 22:26 70	19/8/2016 19:31 66	21/8/2016 8:36 67	21/8/2016 17:41 66	22/8/2016 22:46 65
14/8/2016 21:26 63	16/8/2016 22:31 68	19/8/2016 19:36 65	21/8/2016 8:41 67	21/8/2016 17:46 66	22/8/2016 22:51 65
14/8/2016 21:31 62	16/8/2016 22:36 67	19/8/2016 19:41 65	21/8/2016 8:46 67	21/8/2016 17:51 66	22/8/2016 22:56 65
14/8/2016 21:36 63	16/8/2016 22:41 69	19/8/2016 19:46 64	21/8/2016 8:51 68	21/8/2016 17:56 66	23/8/2016 19:01 54
14/8/2016 21:41 63	16/8/2016 22:46 68	19/8/2016 19:51 64	21/8/2016 8:56 66	21/8/2016 18:01 66	23/8/2016 19:06 67
14/8/2016 21:46 63	16/8/2016 22:51 68	19/8/2016 19:56 65	21/8/2016 9:01 67	21/8/2016 18:06 64	23/8/2016 19:11 67
14/8/2016 21:51 64	16/8/2016 22:56 66	19/8/2016 20:01 65	21/8/2016 9:06 66	21/8/2016 18:11 65	23/8/2016 19:16 66
14/8/2016 21:56 63	17/8/2016 19:01 67	19/8/2016 20:06 64	21/8/2016 9:11 67	21/8/2016 18:16 64	23/8/2016 19:21 67
14/8/2016 22:01 63	17/8/2016 19:06 69	19/8/2016 20:11 66	21/8/2016 9:16 66	21/8/2016 18:21 65	23/8/2016 19:26 66
14/8/2016 22:06 63	17/8/2016 19:11 71	19/8/2016 20:16 66	21/8/2016 9:21 67	21/8/2016 18:26 64	23/8/2016 19:31 66
14/8/2016 22:11 62	17/8/2016 19:16 70	19/8/2016 20:21 67	21/8/2016 9:26 69	21/8/2016 18:31 64	23/8/2016 19:36 64
14/8/2016 22:16 61	17/8/2016 19:21 66	19/8/2016 20:26 67	21/8/2016 9:31 69	21/8/2016 18:36 64	23/8/2016 19:41 64
14/8/2016 22:21 62	17/8/2016 19:26 67	19/8/2016 20:31 67	21/8/2016 9:36 68	21/8/2016 18:41 64	23/8/2016 19:46 66
14/8/2016 22:26 62	17/8/2016 19:31 67	19/8/2016 20:36 67	21/8/2016 9:41 68	21/8/2016 18:46 64	23/8/2016 19:51 66
14/8/2016 22:31 64	17/8/2016 19:36 65	19/8/2016 20:41 67	21/8/2016 9:46 67	21/8/2016 18:51 62	23/8/2016 19:56 66
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14/8/2016 22:46 69	17/8/2016 19:51 64	19/8/2016 20:56 67	21/8/2016 10:01 70	21/8/2016 19:06 67	23/8/2016 20:11 64
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14/8/2016 22:56 68	17/8/2016 20:01 66	19/8/2016 21:06 70	21/8/2016 10:11 68	21/8/2016 19:16 67	23/8/2016 20:21 64
15/8/2016 19:01 62	17/8/2016 20:06 66	19/8/2016 21:11 69	21/8/2016 10:16 69	21/8/2016 19:21 66	23/8/2016 20:26 66
15/8/2016 19:06 65	17/8/2016 20:11 66	19/8/2016 21:16 69	21/8/2016 10:21 69	21/8/2016 19:26 67	23/8/2016 20:31 65
15/8/2016 19:11 63	17/8/2016 20:16 67	19/8/2016 21:21 69	21/8/2016 10:26 70	21/8/2016 19:31 66	23/8/2016 20:36 67
15/8/2016 19:16 65	17/8/2016 20:21 66	19/8/2016 21:26 67	21/8/2016 10:31 69	21/8/2016 19:36 66	23/8/2016 20:41 67
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15/8/2016 21:21 66	17/8/2016 22:26 64	20/8/2016 19:31 67	21/8/2016 12:36 66	21/8/2016 21:41 66	23/8/2016 22:46 64
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15/8/2016 22:01 64	18/8/2016 19:06 64	20/8/2016 20:11 67	21/8/2016 13:16 65	21/8/2016 22:21 64	24/8/2016 19:26 53
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15/8/2016 22:11 64	18/8/2016 19:16 64	20/8/2016 20:21 66	21/8/2016 13:26 65	21/8/2016 22:31 63	24/8/2016 19:36 63
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15/8/2016 22:21 64	18/8/2016 19:26 67	20/8/2016 20:31 66	21/8/2016 13:36 59	21/8/2016 22:41 63	24/8/2016 19:46 63
15/8/2016 22:26 63	18/8/2016 19:31 67	20/8/2016 20:36 66	21/8/2016 13:41 60	21/8/2016 22:46 63	24/8/2016 19:51 64
15/8/2016 22:31 63	18/8/2016 19:36 68	20/8/2016 20:41 66	21/8/2016 13:46 62	21/8/2016 22:51 63	24/8/2016 19:56 65
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15/8/2016 22:51 64	18/8/2016 19:56 67	20/8/2016 21:01 66	21/8/2016 14:06 64	22/8/2016 19:11 63	24/8/2016 20:16 60
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16/8/2016 19:11 62	18/8/2016 20:16 68	20/8/2016 21:21 66	21/8/2016 14:26 67	22/8/2016 19:31 65	24/8/2016 20:36 65
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16/8/2016 19:26 65	18/8/2016 20:31 66	20/8/2016 21:36 66	21/8/2016 14:41 68	22/8/2016 19:46 64	24/8/2016 20:51 63
16/8/2016 19:31 67	18/8/2016 20:36 67	20/8/2016 21:41 66	21/8/2016 14:46 67	22/8/2016 19:51 63	24/8/2016 20:56 61
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16/8/2016 19:41 67	18/8/2016 20:46 67	20/8/2016 21:51 64	21/8/2016 14:56 64	22/8/2016 20:01 66	24/8/2016 21:06 61
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16/8/2016 20:16 67	18/8/2016 21:21 66	20/8/2016 22:26 66	21/8/2016 15:31 68	22/8/2016 20:36 64	24/8/2016 21:41 62
16/8/2016 20:21 66	18/8/2016 21:26 66	20/8/2016 22:31 65	21/8/2016 15:36 66	22/8/2016 20:41 65	24/8/2016 21:46 60
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16/8/2016 20:36 71	18/8/2016 21:41 65	20/8/2016 22:46 66	21/8/2016 15:51 66	22/8/2016 20:56 66	24/8/2016 22:01 65
16/8/2016 20:41 69	18/8/2016 21:46 64	20/8/2016 22:51 66	21/8/2016 15:56 64	22/8/2016 21:01 65	24/8/2016 22:06 64

Real-time Noise Data	RTN4 (Causeway Bay Community				
24/8/2016 22:11 62 24/8/2016 22:16 62	Night time: 23:00-07:00	28/7/2016 0:56 65 28/7/2016 1:01 66	29/7/2016 2:01 63 29/7/2016 2:06 63	30/7/2016 3:06 65 30/7/2016 3:11 65	31/7/2016 4:11 60 31/7/2016 4:16 62
24/8/2016 22:21 61	27/7/2016 0:01 64	28/7/2016 1:06 66	29/7/2016 2:11 58	30/7/2016 3:11 65	31/7/2016 4:21 58
24/8/2016 22:26 62	27/7/2016 0:06 63	28/7/2016 1:11 65	29/7/2016 2:16 60	30/7/2016 3:21 65	31/7/2016 4:26 61
24/8/2016 22:31 64 24/8/2016 22:36 65	27/7/2016 0:11 64 27/7/2016 0:16 64	28/7/2016 1:16 65 28/7/2016 1:21 65	29/7/2016 2:21 61 29/7/2016 2:26 61	30/7/2016 3:26 61 30/7/2016 3:31 62	31/7/2016 4:31 56 31/7/2016 4:36 60
24/8/2016 22:41 66	27/7/2016 0:21 63	28/7/2016 1:26 64	29/7/2016 2:31 59	30/7/2016 3:36 62	31/7/2016 4:41 58
24/8/2016 22:46 64 24/8/2016 22:51 62	27/7/2016 0:26 64 27/7/2016 0:31 63	28/7/2016 1:31 64 28/7/2016 1:36 63	29/7/2016 2:36 60 29/7/2016 2:41 60	30/7/2016 3:41 62 30/7/2016 3:46 64	31/7/2016 4:46 60 31/7/2016 4:51 59
24/8/2016 22:56 61	27/7/2016 0:31 03	28/7/2016 1:41 62	29/7/2016 2:41 66	30/7/2016 3:40 64	31/7/2016 4:56 59
25/8/2016 19:01 64	27/7/2016 0:41 64	28/7/2016 1:46 62	29/7/2016 2:51 60	30/7/2016 3:56 65	31/7/2016 5:01 56
25/8/2016 19:06 65 25/8/2016 19:11 64	27/7/2016 0:46 62 27/7/2016 0:51 62	28/7/2016 1:51 63 28/7/2016 1:56 64	29/7/2016 2:56 60 29/7/2016 3:01 57	30/7/2016 4:01 65 30/7/2016 4:06 64	31/7/2016 5:06 58 31/7/2016 5:11 56
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25/8/2016 19:21 64 25/8/2016 19:26 65	27/7/2016 1:01 61 27/7/2016 1:06 62	28/7/2016 2:06 65 28/7/2016 2:11 64	29/7/2016 3:11 60 29/7/2016 3:16 58	30/7/2016 4:16 64 30/7/2016 4:21 65	31/7/2016 5:21 60 31/7/2016 5:26 61
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25/8/2016 19:41 66 25/8/2016 19:46 65	27/7/2016 1:21 63 27/7/2016 1:26 60	28/7/2016 2:26 66 28/7/2016 2:31 64	29/7/2016 3:31 54 29/7/2016 3:36 59	30/7/2016 4:36 65 30/7/2016 4:41 59	31/7/2016 5:41 62 31/7/2016 5:46 61
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25/8/2016 20:11 64 25/8/2016 20:16 65	27/7/2016 1:51 60 27/7/2016 1:56 62	28/7/2016 2:56 63 28/7/2016 3:01 61	29/7/2016 4:01 59 29/7/2016 4:06 56	30/7/2016 5:06 65 30/7/2016 5:11 63	31/7/2016 6:11 62 31/7/2016 6:16 63
25/8/2016 20:21 65	27/7/2016 1:56 62 27/7/2016 2:01 60	28/7/2016 3:06 63	29/7/2016 4:06 56 29/7/2016 4:11 51	30/7/2016 5:11 63	31/7/2016 6:21 64
25/8/2016 20:26 66	27/7/2016 2:06 61	28/7/2016 3:11 63	29/7/2016 4:16 58	30/7/2016 5:21 65	31/7/2016 6:26 63
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25/8/2016 20:56 65	27/7/2016 2:36 54	28/7/2016 3:41 63	29/7/2016 4:46 47	30/7/2016 5:51 66	31/7/2016 6:56 63
25/8/2016 21:01 64	27/7/2016 2:41 57	28/7/2016 3:46 63	29/7/2016 4:51 58	30/7/2016 5:56 66	31/7/2016 23:01 65
25/8/2016 21:06 65 25/8/2016 21:11 66	27/7/2016 2:46 58 27/7/2016 2:51 47	28/7/2016 3:51 64 28/7/2016 3:56 63	29/7/2016 4:56 61 29/7/2016 5:01 58	30/7/2016 6:01 62 30/7/2016 6:06 63	31/7/2016 23:06 66 31/7/2016 23:11 65
25/8/2016 21:16 66	27/7/2016 2:56 56	28/7/2016 4:01 63	29/7/2016 5:06 56	30/7/2016 6:11 64	31/7/2016 23:16 65
25/8/2016 21:21 66 25/8/2016 21:26 64	27/7/2016 3:01 52 27/7/2016 3:06 59	28/7/2016 4:06 63 28/7/2016 4:11 63	29/7/2016 5:11 59 29/7/2016 5:16 60	30/7/2016 6:16 66 30/7/2016 6:21 66	31/7/2016 23:21 65 31/7/2016 23:26 65
25/8/2016 21:31 64	27/7/2016 3:11 54	28/7/2016 4:16 63	29/7/2016 5:21 58	30/7/2016 6:26 67	31/7/2016 23:31 64
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25/8/2016 21:46 64	27/7/2016 3:26 53	28/7/2016 4:20 63	29/7/2016 5:36 62	30/7/2016 6:41 67	31/7/2016 23:46 64
25/8/2016 21:51 66	27/7/2016 3:31 54	28/7/2016 4:36 64	29/7/2016 5:41 63	30/7/2016 6:46 68	31/7/2016 23:51 64
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25/8/2016 22:06 66	27/7/2016 3:46 54	28/7/2016 4:51 59	29/7/2016 5:56 63	30/7/2016 23:01 66	1/8/2016 0:06 63
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25/8/2016 22:46 64	27/7/2016 4:26 51	28/7/2016 5:31 64	29/7/2016 6:36 66	30/7/2016 23:41 66	1/8/2016 0:46 61
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26/8/2016 22:26 65 26/8/2016 22:31 64	28/7/2016 0:11 66	29/7/2016 1:16 64	30/7/2016 2:21 66	31/7/2016 3:26 60	1/8/2016 4:26 63 1/8/2016 4:31 61
26/8/2016 22:36 63 26/8/2016 22:41 65	28/7/2016 0:16 66 28/7/2016 0:21 67	29/7/2016 1:21 63 29/7/2016 1:26 63	30/7/2016 2:26 66 30/7/2016 2:31 65	31/7/2016 3:31 60 31/7/2016 3:36 61	1/8/2016 4:36 58 1/8/2016 4:41 60
26/8/2016 22:46 66	28/7/2016 0:21 67 28/7/2016 0:26 67	29/7/2016 1:26 63 29/7/2016 1:31 63	30/7/2016 2:31 65 30/7/2016 2:36 64	31/7/2016 3:36 61 31/7/2016 3:41 60	1/8/2016 4:41 60 1/8/2016 4:46 64
26/8/2016 22:51 65 26/8/2016 22:56 62	28/7/2016 0:31 66 28/7/2016 0:36 66	29/7/2016 1:36 62 29/7/2016 1:41 62	30/7/2016 2:41 63 30/7/2016 2:46 64	31/7/2016 3:46 62 31/7/2016 3:51 60	1/8/2016 4:51 63 1/8/2016 4:56 62
_0,0,2010 £2.00 U£	28/7/2016 0:41 66	29/7/2016 1:46 62	30/7/2016 2:51 62	31/7/2016 3:56 61	1/8/2016 5:01 63
	28/7/2016 0:46 66 28/7/2016 0:51 67	29/7/2016 1:51 62 29/7/2016 1:56 61	30/7/2016 2:56 64 30/7/2016 3:01 66	31/7/2016 4:01 59 31/7/2016 4:06 57	1/8/2016 5:06 62 1/8/2016 5:11 58
!	-				

Real-time Noise Data	RTN4 (Causeway Bay Communi	ity Centre)			
1/8/2016 5:16 58	2/8/2016 6:21 67	3/8/2016 23:26 66	5/8/2016 0:31 65	6/8/2016 1:36 64	7/8/2016 2:41 65
1/8/2016 5:21 55	2/8/2016 6:26 68	3/8/2016 23:31 66	5/8/2016 0:36 65	6/8/2016 1:41 65	7/8/2016 2:46 65
1/8/2016 5:26 58	2/8/2016 6:31 68	3/8/2016 23:36 66	5/8/2016 0:41 64	6/8/2016 1:46 64	7/8/2016 2:51 66
1/8/2016 5:31 63	2/8/2016 6:36 67	3/8/2016 23:41 67	5/8/2016 0:46 64	6/8/2016 1:51 65	7/8/2016 2:56 64
1/8/2016 5:36 65	2/8/2016 6:41 65	3/8/2016 23:46 66	5/8/2016 0:51 64	6/8/2016 1:56 63	7/8/2016 3:01 65
1/8/2016 5:41 64	2/8/2016 6:46 66	3/8/2016 23:51 66	5/8/2016 0:56 65	6/8/2016 2:01 65	7/8/2016 3:06 65
1/8/2016 5:46 65	2/8/2016 6:51 67	3/8/2016 23:56 66	5/8/2016 1:01 64	6/8/2016 2:06 63	7/8/2016 3:11 64
1/8/2016 5:51 66	2/8/2016 6:56 64	4/8/2016 0:01 65	5/8/2016 1:06 63	6/8/2016 2:11 63	7/8/2016 3:16 65
1/8/2016 5:56 65	2/8/2016 23:01 65	4/8/2016 0:06 65	5/8/2016 1:11 64	6/8/2016 2:16 63	7/8/2016 3:21 64
1/8/2016 6:01 64	2/8/2016 23:06 65	4/8/2016 0:11 65	5/8/2016 1:16 64	6/8/2016 2:21 64	7/8/2016 3:26 65
1/8/2016 6:06 64	2/8/2016 23:11 65	4/8/2016 0:16 65	5/8/2016 1:21 63	6/8/2016 2:26 64	7/8/2016 3:31 65
1/8/2016 6:11 63	2/8/2016 23:16 64	4/8/2016 0:21 66	5/8/2016 1:26 63	6/8/2016 2:31 63	7/8/2016 3:36 65
1/8/2016 6:16 64	2/8/2016 23:21 63	4/8/2016 0:26 65	5/8/2016 1:31 64	6/8/2016 2:36 64	7/8/2016 3:41 61
1/8/2016 6:21 67	2/8/2016 23:26 65	4/8/2016 0:31 65	5/8/2016 1:36 63	6/8/2016 2:41 63	7/8/2016 3:46 60
1/8/2016 6:26 68	2/8/2016 23:31 65	4/8/2016 0:36 65	5/8/2016 1:41 62	6/8/2016 2:46 63	7/8/2016 3:51 61
1/8/2016 6:31 67	2/8/2016 23:36 65	4/8/2016 0:41 64	5/8/2016 1:46 62	6/8/2016 2:51 62	7/8/2016 3:56 62
1/8/2016 6:36 68	2/8/2016 23:41 64	4/8/2016 0:46 65	5/8/2016 1:51 63	6/8/2016 2:56 67	7/8/2016 4:01 60
1/8/2016 6:41 68	2/8/2016 23:46 64	4/8/2016 0:51 65	5/8/2016 1:56 61	6/8/2016 3:01 62	7/8/2016 4:06 64
1/8/2016 6:46 68	2/8/2016 23:51 64	4/8/2016 0:56 64	5/8/2016 2:01 63	6/8/2016 3:06 63	7/8/2016 4:11 64
1/8/2016 6:51 68	2/8/2016 23:56 65	4/8/2016 1:01 64	5/8/2016 2:06 62	6/8/2016 3:11 64	7/8/2016 4:16 65
1/8/2016 6:56 67	3/8/2016 0:01 64	4/8/2016 1:06 63	5/8/2016 2:11 61	6/8/2016 3:16 62	7/8/2016 4:21 64
1/8/2016 23:01 65	3/8/2016 0:06 64	4/8/2016 1:11 64	5/8/2016 2:16 61	6/8/2016 3:21 63	7/8/2016 4:26 65
1/8/2016 23:06 63	3/8/2016 0:11 64	4/8/2016 1:16 63	5/8/2016 2:21 59	6/8/2016 3:26 62	7/8/2016 4:31 59
1/8/2016 23:11 63	3/8/2016 0:16 64	4/8/2016 1:21 63	5/8/2016 2:26 61	6/8/2016 3:31 62	7/8/2016 4:36 60
1/8/2016 23:16 64	3/8/2016 0:21 64	4/8/2016 1:26 63	5/8/2016 2:31 62	6/8/2016 3:36 62	7/8/2016 4:41 60
1/8/2016 23:21 62	3/8/2016 0:26 64	4/8/2016 1:31 63	5/8/2016 2:36 63	6/8/2016 3:41 62	7/8/2016 4:46 62
1/8/2016 23:26 61	3/8/2016 0:31 64	4/8/2016 1:36 60	5/8/2016 2:41 60	6/8/2016 3:46 60	7/8/2016 4:51 60
1/8/2016 23:31 62	3/8/2016 0:36 63	4/8/2016 1:41 62	5/8/2016 2:46 62	6/8/2016 3:51 62	7/8/2016 4:56 63
1/8/2016 23:36 61	3/8/2016 0:41 68	4/8/2016 1:46 62	5/8/2016 2:51 60	6/8/2016 3:56 59	7/8/2016 5:01 64
1/8/2016 23:41 62	3/8/2016 0:46 63	4/8/2016 1:51 61	5/8/2016 2:56 62	6/8/2016 4:01 61	7/8/2016 5:06 65
1/8/2016 23:46 61	3/8/2016 0:51 63	4/8/2016 1:56 62	5/8/2016 3:01 60	6/8/2016 4:06 62	7/8/2016 5:11 65
1/8/2016 23:51 62	3/8/2016 0:56 62	4/8/2016 2:01 62	5/8/2016 3:06 59	6/8/2016 4:11 63	7/8/2016 5:16 63
1/8/2016 23:56 61	3/8/2016 1:01 63	4/8/2016 2:06 62	5/8/2016 3:11 59	6/8/2016 4:16 61	7/8/2016 5:21 64
2/8/2016 0:01 62	3/8/2016 1:06 63	4/8/2016 2:11 62	5/8/2016 3:16 60	6/8/2016 4:21 63	7/8/2016 5:26 61
2/8/2016 0:06 62	3/8/2016 1:11 62	4/8/2016 2:16 61	5/8/2016 3:21 60	6/8/2016 4:26 61	7/8/2016 5:31 61
2/8/2016 0:11 63	3/8/2016 1:16 63	4/8/2016 2:21 60	5/8/2016 3:26 60	6/8/2016 4:31 61	7/8/2016 5:36 62
2/8/2016 0:16 65	3/8/2016 1:21 62	4/8/2016 2:26 61	5/8/2016 3:31 59	6/8/2016 4:36 60	7/8/2016 5:41 63
2/8/2016 0:21 63	3/8/2016 1:26 62	4/8/2016 2:31 60	5/8/2016 3:36 59	6/8/2016 4:41 59	7/8/2016 5:46 63
2/8/2016 0:26 63	3/8/2016 1:31 61	4/8/2016 2:36 60	5/8/2016 3:41 59	6/8/2016 4:46 60	7/8/2016 5:51 65
2/8/2016 0:31 64	3/8/2016 1:36 60	4/8/2016 2:41 59	5/8/2016 3:46 55	6/8/2016 4:51 61	7/8/2016 5:56 65
2/8/2016 0:36 66	3/8/2016 1:41 61	4/8/2016 2:46 61	5/8/2016 3:51 57	6/8/2016 4:56 61	7/8/2016 6:01 65
2/8/2016 0:41 64	3/8/2016 1:46 60	4/8/2016 2:51 62	5/8/2016 3:56 58	6/8/2016 5:01 60	7/8/2016 6:06 66
2/8/2016 0:46 65	3/8/2016 1:51 62	4/8/2016 2:56 60	5/8/2016 4:01 59	6/8/2016 5:06 61	7/8/2016 6:11 66
2/8/2016 0:51 66	3/8/2016 1:56 59	4/8/2016 3:01 57	5/8/2016 4:06 57	6/8/2016 5:11 61	7/8/2016 6:16 66
2/8/2016 0:56 65	3/8/2016 2:01 58	4/8/2016 3:06 60	5/8/2016 4:11 54	6/8/2016 5:16 60	7/8/2016 6:21 64
2/8/2016 1:01 64	3/8/2016 2:06 58	4/8/2016 3:11 57	5/8/2016 4:16 60	6/8/2016 5:21 62	7/8/2016 6:26 66
2/8/2016 1:06 62	3/8/2016 2:11 60	4/8/2016 3:16 60	5/8/2016 4:21 58	6/8/2016 5:26 62	7/8/2016 6:31 64
2/8/2016 1:11 65	3/8/2016 2:16 61	4/8/2016 3:21 58	5/8/2016 4:26 57	6/8/2016 5:31 61	7/8/2016 6:36 65
2/8/2016 1:16 61	3/8/2016 2:21 61	4/8/2016 3:26 57	5/8/2016 4:31 59	6/8/2016 5:36 62	7/8/2016 6:41 65
2/8/2016 1:21 62	3/8/2016 2:26 61	4/8/2016 3:31 50	5/8/2016 4:36 54	6/8/2016 5:41 63	7/8/2016 6:46 66
2/8/2016 1:26 64	3/8/2016 2:31 59	4/8/2016 3:36 58	5/8/2016 4:41 60	6/8/2016 5:46 62	7/8/2016 6:51 66
2/8/2016 1:31 65	3/8/2016 2:36 59	4/8/2016 3:41 60	5/8/2016 4:46 58	6/8/2016 5:51 63	7/8/2016 6:56 66
2/8/2016 1:36 64	3/8/2016 2:41 56	4/8/2016 3:46 61	5/8/2016 4:51 58	6/8/2016 5:56 63	7/8/2016 23:01 67
2/8/2016 1:41 64	3/8/2016 2:46 59	4/8/2016 3:51 60	5/8/2016 4:56 59	6/8/2016 6:01 63	7/8/2016 23:06 66
2/8/2016 1:46 63	3/8/2016 2:51 57	4/8/2016 3:56 58	5/8/2016 5:01 55	6/8/2016 6:06 64	7/8/2016 23:11 66
2/8/2016 1:51 61	3/8/2016 2:56 60	4/8/2016 4:01 61	5/8/2016 5:06 51	6/8/2016 6:11 64	7/8/2016 23:16 66
2/8/2016 1:56 61	3/8/2016 3:01 57	4/8/2016 4:06 59	5/8/2016 5:11 60	6/8/2016 6:16 64	7/8/2016 23:21 67
2/8/2016 2:01 60	3/8/2016 3:06 57	4/8/2016 4:11 56	5/8/2016 5:16 59	6/8/2016 6:21 65	7/8/2016 23:26 65
2/8/2016 2:06 60	3/8/2016 3:11 60	4/8/2016 4:16 59	5/8/2016 5:21 60	6/8/2016 6:26 65	7/8/2016 23:31 66
2/8/2016 2:11 61	3/8/2016 3:16 60	4/8/2016 4:21 58	5/8/2016 5:26 59	6/8/2016 6:31 65	7/8/2016 23:36 66
2/8/2016 2:16 61	3/8/2016 3:21 61	4/8/2016 4:26 56	5/8/2016 5:31 62	6/8/2016 6:36 66	7/8/2016 23:41 66
2/8/2016 2:21 61	3/8/2016 3:26 58	4/8/2016 4:31 58	5/8/2016 5:36 61	6/8/2016 6:41 66	7/8/2016 23:46 66
2/8/2016 2:26 59	3/8/2016 3:31 59	4/8/2016 4:36 59	5/8/2016 5:41 62	6/8/2016 6:46 66	7/8/2016 23:51 66
2/8/2016 2:31 59	3/8/2016 3:36 57	4/8/2016 4:41 59	5/8/2016 5:46 62	6/8/2016 6:51 66	7/8/2016 23:56 65
2/8/2016 2:36 60	3/8/2016 3:41 59	4/8/2016 4:46 58	5/8/2016 5:51 61	6/8/2016 6:56 66	8/8/2016 0:01 64
2/8/2016 2:41 55	3/8/2016 3:46 61	4/8/2016 4:51 58	5/8/2016 5:56 64	6/8/2016 23:01 68	8/8/2016 0:06 63
2/8/2016 2:46 55	3/8/2016 3:51 63	4/8/2016 4:56 59	5/8/2016 6:01 63	6/8/2016 23:06 68	8/8/2016 0:11 63
2/8/2016 2:51 55 2/8/2016 2:56 61	3/8/2016 3:56 56	4/8/2016 5:01 51	5/8/2016 6:06 64	6/8/2016 23:11 67	8/8/2016 0:16 63 8/8/2016 0:21 66
2/8/2016 2:56 61	3/8/2016 4:01 57	4/8/2016 5:06 58	5/8/2016 6:11 64	6/8/2016 23:16 67	8/8/2016 0:21 66
2/8/2016 3:01 59	3/8/2016 4:06 57	4/8/2016 5:11 60	5/8/2016 6:16 64	6/8/2016 23:21 67	8/8/2016 0:26 66
2/8/2016 3:06 53	3/8/2016 4:11 58	4/8/2016 5:16 60	5/8/2016 6:21 66	6/8/2016 23:26 66	8/8/2016 0:31 65
2/8/2016 3:11 51	3/8/2016 4:16 57	4/8/2016 5:21 58	5/8/2016 6:26 66	6/8/2016 23:31 65	8/8/2016 0:36 65
2/8/2016 3:16 57	3/8/2016 4:21 57	4/8/2016 5:26 60	5/8/2016 6:31 67	6/8/2016 23:36 66	8/8/2016 0:41 65
2/8/2016 3:21 59	3/8/2016 4:26 62	4/8/2016 5:31 62	5/8/2016 6:36 67	6/8/2016 23:41 66	8/8/2016 0:46 65
2/8/2016 3:26 58	3/8/2016 4:31 62	4/8/2016 5:36 62	5/8/2016 6:41 67	6/8/2016 23:46 67	8/8/2016 0:51 65
2/8/2016 3:31 57	3/8/2016 4:36 59	4/8/2016 5:41 61	5/8/2016 6:46 68	6/8/2016 23:51 67	8/8/2016 0:56 64
2/8/2016 3:36 57	3/8/2016 4:41 58	4/8/2016 5:46 63	5/8/2016 6:51 68	6/8/2016 23:56 67	8/8/2016 1:01 65
2/8/2016 3:41 58	3/8/2016 4:46 61	4/8/2016 5:51 64	5/8/2016 6:56 68	7/8/2016 0:01 67	8/8/2016 1:06 65
2/8/2016 3:46 62	3/8/2016 4:51 59	4/8/2016 5:56 63	5/8/2016 23:01 66	7/8/2016 0:06 67	8/8/2016 1:11 64
2/8/2016 3:51 63	3/8/2016 4:56 59	4/8/2016 6:01 61	5/8/2016 23:06 66	7/8/2016 0:11 67	8/8/2016 1:16 64
2/8/2016 3:56 61	3/8/2016 5:01 60	4/8/2016 6:06 65	5/8/2016 23:11 66	7/8/2016 0:16 67	8/8/2016 1:21 65
2/8/2016 4:01 62	3/8/2016 5:06 59	4/8/2016 6:11 65	5/8/2016 23:16 66	7/8/2016 0:21 66	8/8/2016 1:26 65
2/8/2016 4:06 64	3/8/2016 5:11 60	4/8/2016 6:16 65	5/8/2016 23:21 68	7/8/2016 0:26 68	8/8/2016 1:31 65
2/8/2016 4:11 64	3/8/2016 5:16 60	4/8/2016 6:21 65	5/8/2016 23:26 66	7/8/2016 0:31 67	8/8/2016 1:36 64
2/8/2016 4:16 66	3/8/2016 5:21 61	4/8/2016 6:26 66	5/8/2016 23:31 66	7/8/2016 0:36 67	8/8/2016 1:41 63
2/8/2016 4:21 66	3/8/2016 5:26 61	4/8/2016 6:31 66	5/8/2016 23:36 67	7/8/2016 0:41 66	8/8/2016 1:46 59
2/8/2016 4:26 66	3/8/2016 5:31 60	4/8/2016 6:36 67	5/8/2016 23:41 67	7/8/2016 0:46 66	8/8/2016 1:51 59
2/8/2016 4:31 67	3/8/2016 5:36 61	4/8/2016 6:41 67	5/8/2016 23:46 66	7/8/2016 0:51 66	8/8/2016 1:56 56
2/8/2016 4:36 66	3/8/2016 5:41 60	4/8/2016 6:46 66	5/8/2016 23:51 66	7/8/2016 0:56 67	8/8/2016 2:01 58
2/8/2016 4:41 64	3/8/2016 5:46 63	4/8/2016 6:51 68	5/8/2016 23:56 66	7/8/2016 1:01 66	8/8/2016 2:06 59
2/8/2016 4:46 65	3/8/2016 5:51 61	4/8/2016 6:56 67	6/8/2016 0:01 66	7/8/2016 1:06 66	8/8/2016 2:11 62
2/8/2016 4:51 67	3/8/2016 5:56 63	4/8/2016 23:01 67	6/8/2016 0:06 66	7/8/2016 1:11 65	8/8/2016 2:16 63
2/8/2016 4:56 71	3/8/2016 6:01 63	4/8/2016 23:06 67	6/8/2016 0:11 65	7/8/2016 1:16 67	8/8/2016 2:21 64
2/8/2016 5:01 70	3/8/2016 6:06 64	4/8/2016 23:11 67	6/8/2016 0:16 65	7/8/2016 1:21 66	8/8/2016 2:26 63
2/8/2016 5:06 70	3/8/2016 6:11 65	4/8/2016 23:16 68	6/8/2016 0:21 67	7/8/2016 1:26 66	8/8/2016 2:31 64
2/8/2016 5:11 68	3/8/2016 6:16 65	4/8/2016 23:21 67	6/8/2016 0:26 66	7/8/2016 1:31 66	8/8/2016 2:36 58
2/8/2016 5:16 64	3/8/2016 6:21 66	4/8/2016 23:26 67	6/8/2016 0:31 65	7/8/2016 1:36 66	8/8/2016 2:41 60
2/8/2016 5:21 63	3/8/2016 6:26 66	4/8/2016 23:31 66	6/8/2016 0:36 66	7/8/2016 1:41 66	8/8/2016 2:46 55
2/8/2016 5:26 63	3/8/2016 6:31 66	4/8/2016 23:36 66	6/8/2016 0:41 65	7/8/2016 1:46 66	8/8/2016 2:51 62
2/8/2016 5:31 64	3/8/2016 6:36 66	4/8/2016 23:41 66	6/8/2016 0:46 64	7/8/2016 1:51 66	8/8/2016 2:56 62
2/8/2016 5:36 63	3/8/2016 6:41 67	4/8/2016 23:46 66	6/8/2016 0:51 65	7/8/2016 1:56 66	8/8/2016 3:01 62
2/8/2016 5:41 63	3/8/2016 6:46 67	4/8/2016 23:51 67	6/8/2016 0:56 65	7/8/2016 2:01 65	8/8/2016 3:06 62
2/8/2016 5:46 64	3/8/2016 6:51 67	4/8/2016 23:56 66	6/8/2016 1:01 68	7/8/2016 2:06 66	8/8/2016 3:11 62
2/8/2016 5:51 64	3/8/2016 6:56 68	5/8/2016 0:01 66	6/8/2016 1:06 65	7/8/2016 2:11 65	8/8/2016 3:16 55
2/8/2016 5:56 65	3/8/2016 23:01 67	5/8/2016 0:06 66	6/8/2016 1:11 65	7/8/2016 2:16 66	8/8/2016 3:21 57
2/8/2016 6:01 65	3/8/2016 23:06 66	5/8/2016 0:11 65	6/8/2016 1:16 64	7/8/2016 2:21 65	8/8/2016 3:26 58
2/8/2016 6:06 67	3/8/2016 23:11 67	5/8/2016 0:16 66	6/8/2016 1:21 64	7/8/2016 2:26 65	8/8/2016 3:31 62
2/8/2016 6:11 68	3/8/2016 23:16 66	5/8/2016 0:21 65	6/8/2016 1:26 64	7/8/2016 2:31 65	8/8/2016 3:36 63
2/8/2016 6:16 66	3/8/2016 23:21 67	5/8/2016 0:26 66	6/8/2016 1:31 65	7/8/2016 2:36 65	8/8/2016 3:41 62
	1 5/5/25 TO EU.E 1 UT	1 0,0,20.00.20 00	1 0.0.20.0 1.01 00	1	0.0.2010 0.71 02

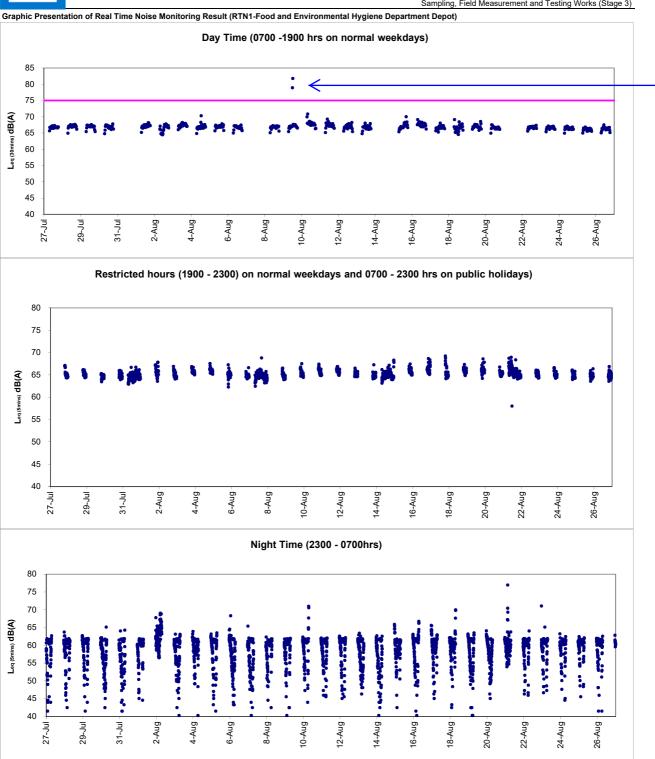
March   1966	Real-time Noise Data	RTN4 (Causeway Bay Communit				
	8/8/2016 3:46 63 8/8/2016 3:51 62	9/8/2016 4:51 63 9/8/2016 4:56 64	10/8/2016 5:56 62 10/8/2016 6:01 62			
	8/8/2016 3:56 63	9/8/2016 5:01 62	10/8/2016 6:06 61	11/8/2016 23:11 66	13/8/2016 0:16 67	14/8/2016 1:21 61
Begrin   Col.						
MacContect   1975   1						
Medical   S.   Medi	8/8/2016 4:21 62	9/8/2016 5:26 63	10/8/2016 6:31 67	11/8/2016 23:36 66	13/8/2016 0:41 65	14/8/2016 1:46 62
MACCHISTON   Color						
March   Marc	8/8/2016 4:36 64	9/8/2016 5:41 64	10/8/2016 6:46 70	11/8/2016 23:51 66	13/8/2016 0:56 64	14/8/2016 2:01 62
March   Col.   Marc						
ARCHITECT   15   15   15   15   15   15   15   1	8/8/2016 4:51 63	9/8/2016 5:56 66	10/8/2016 23:01 66	12/8/2016 0:06 65	13/8/2016 1:11 65	14/8/2016 2:16 61
## MACHINE COLD   1.0000000   1.000000   1.000000   1.000000   1.000000   1.000000   1.000000   1.0000000   1.0000000   1.0000000   1.0000000   1.0000000   1.0000000   1.0000000   1.0000000   1.0000000   1.0000000   1.0000000   1.0000000   1.0000000   1.00000000   1.000000000   1.0000000000						
Machine Cold   Mach						
## MENDERS 151   61						
	8/8/2016 5:31 63	9/8/2016 6:36 66	10/8/2016 23:41 65	12/8/2016 0:46 65	13/8/2016 1:51 64	14/8/2016 2:56 60
	8/8/2016 5:46 64	9/8/2016 6:51 68	10/8/2016 23:56 65	12/8/2016 1:01 63	13/8/2016 2:06 64	14/8/2016 3:11 58
### SECURE 6-10   67						
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Real-time Noise Data 22/8/2016 0:46 59	RTN4 (Causeway Bay Community 23/8/2016 1:51 61	( Centre) 24/8/2016 2:56 55	25/8/2016 4:01 61
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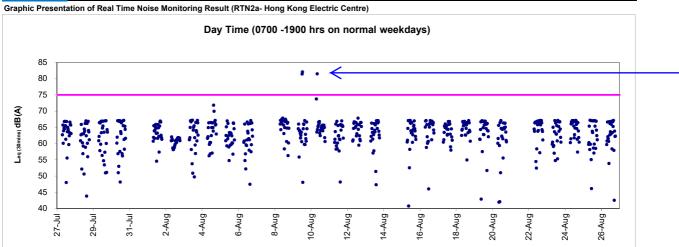
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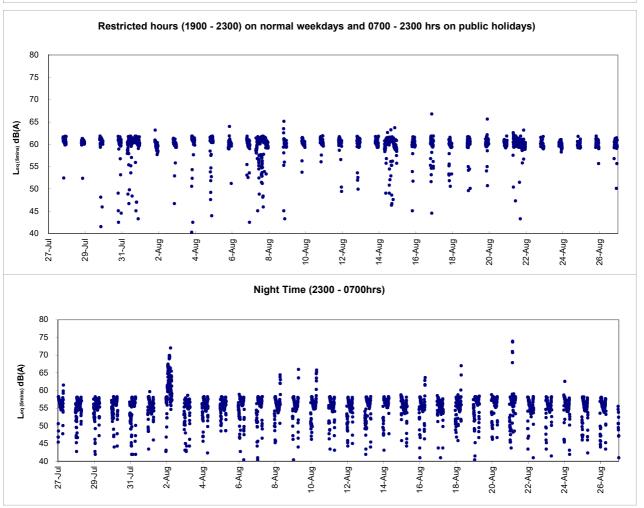




After checking with Contractors, no construction activities was undertaken by Contractor of HY/2009/19 and Contractor of HY/2011/08 on 09 August 2016 while adverse weather with frequent thunderstorm was observed and recorded across other monitoring stations at Tin Hau and North Point District and is considered as the major noise contribution. As such, the exceedances were considered not related to Project.

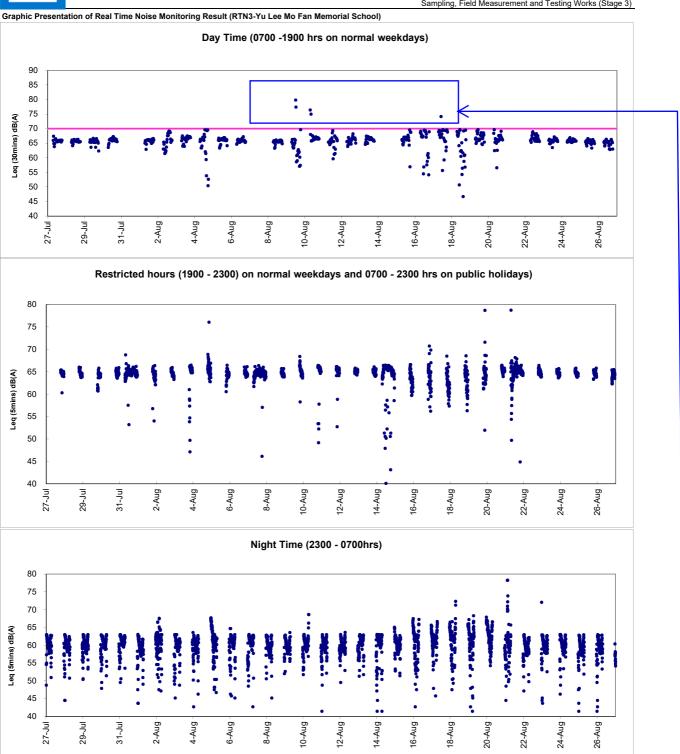






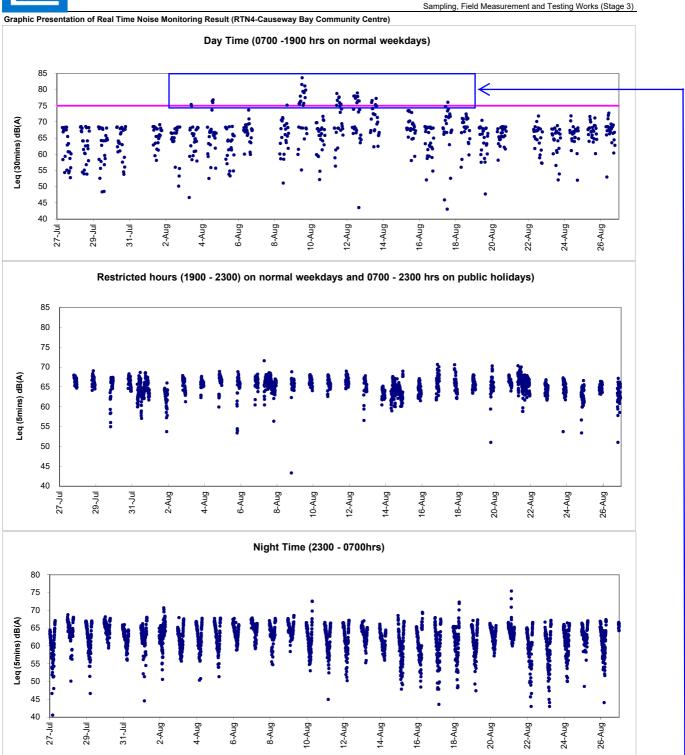
After checking with Contractors, no construction activities was undertaken by Contractor of HY/2009/19 a on 09 August 2016 while unloading of soil at temporary jetty was conducted on 10 August 2016. No construction activities was undertaken by Contractor of HY/2011/08 on 09 and 10 August 2016. Adverse weather with frequent thunderstorm was observed and recorded on 09 and 10 August 2016 across other monitoring stations at North Point District and is considered as the major noise contribution. As such, the exceedances were considered not related to Project.





After checking with Contractor of HY/2009/19, no construction works was conducted by Contract HY/2009/19 on 09, 10 and 17 August 2016 around the concerned location during the monitoring period while adverse weather with frequent thunderstorm was recorded at the monitoring period on 09 and 10 August 2016 across monitoring stations at Eastern District and is considered as the major noise contribution. As such, the exceedance was considered as non-Project related. On 17 August 2016, erection of U-beam with launching girder and crane was conducted by HY/2009/19 on 17 August 2016 and no major noise is considered. As such, the exceedance was considered as non-Project related.





After checking with Contractor of HY/2009/19, on 11 August 2016 and 12 August 2016 morning, no noise mitigation measure was provided for the drilling works at IEC bridge deck on 12 August 2016 morning and was observed as the direct noise contribution. Hence, the exceedances on 11 and 12 August 2016 were considered as related to the Project works. On 12 August 2016 afternoon, breaking works beneath the IEC bridge deck and concurrent excavator mounted breaking works at Pier 23 were observed. Exceedances were recorded and direct noise contribution was observed in relation to the concurrent operation of hand held breaker and excavator mounted hydraulic breakers opposite to the monitoring station and considered as related to the Project works.

On 04, 09, 13 and 17 August 2016, the exceedances were concluded as not related to Project works. In addition, construction activities and intermittent operation of PMEs including excavator, hydraulic breaker and sheet piling rig were observed at non-CWB Project adjacent to monitoring station was observed in August 2016.

## Appendix 6.1

Event Action Plans

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

EVENT	ACTION				
	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>	Submit noise mitigation proposals to IEC and ER;     Implement noise mitigation proposals.     (The above actions should be taken within 2 working days after the exceedance is identified)	



EVENT	ACTION				
	ET	IEC	ER	CONTRACTOR	
Limit Level being exceeded	<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>	Discuss amongst ER, ET, and Contractor on the potential remedial actions;     Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly.  (The above actions should be taken within 2 workin g days after the exceedance is identified)	<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>If exceedance continues, consider stopping the Contractor to 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 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 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		
EVENI	ET	IEC	ER	CONTRACTOR
ACTION LEVEL				
Exceedance for one sample	Identify source, investigate the causes of exceedance and propose remedial measures;     Inform IEC and ER;     Repeat measurement to confirm finding;     Increase monitoring frequency to daily.     (The above actions should be taken within 2 working days after the exceedance is identified)	Check monitoring data submitted by ET;     Check Contractor's working method.  (The above actions should be taken within 2 working days after the exceedance is identified)	Notify Contractor. (The above actions should be taken within 2 working days after the exceedance is identified)	Rectify any unacceptable practice;     Amend working methods if appropriate     (The above actions should be taken within 2     working days after the exceedance is     identified)
Exceedance for two or more consecutive samples	1. Identify source; 2. Inform IEC and ER; 3. Advise the ER on the effectiveness of the proposed remedial measures; 4. Repeat measurements to confirm findings; 5. Increase monitoring frequency to daily; 6. Discuss with IEC and Contractor on remedial actions required; 7. If exceedance continues, arrange meeting with IEC and ER; 8. If exceedance stops, cease additional monitoring. (The above actions should be taken within 2 working days after the exceedance is identified)	Check monitoring data submitted by ET;     Check Contractor's working method;     Discuss with ET and Contractor on possible remedial measures;     Advise the ET on the effectiveness of the proposed remedial measures;     Supervise Implementation of remedial measures.     (The above actions should be taken within 2 working days after the exceedance is identified)	Confirm receipt of notification of failure in writing;     Notify Contractor;     Ensure remedial measures properly implemented.  (The above actions should be taken within 2 working days after the exceedance is identified)	Submit proposals for remedial to ER within 3 working days of notification;     Implement the agreed proposals;     Amend proposal if appropriate. (The above actions should be taken within 2 working days after the exceedance is identified)
LIMIT LEVEL				
Exceedance for one sample	Identify source, investigate the causes of exceedance and propose remedial measures;     Inform ER, Contractor and EPD;     Repeat measurement to confirm finding;     Increase monitoring frequency to daily;     Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results.  (The above actions should be taken within 2 working days after the exceedance is identified)	Check monitoring data submitted by ET;     Check Contractor's working method;     Discuss with ET and Contractor on possible remedial measures;     Advise the ER on the effectiveness of the proposed remedial measures;     Supervise implementation of remedial measures.  (The above actions should be taken within 2 working days after the exceedance is identified)	Confirm receipt of notification of failure in writing;     Notify Contractor;     Ensure remedial measures properly implemented.  (The above actions should be taken within 2 working days after the exceedance is identified)	Take immediate action to avoid furthe exceedance;     Submit proposals for remedial actions IEC within 3 working days of notifications.     Implement the agreed proposals;     Amend proposal if appropriate.     (The above actions should be taken within 2 working days after the exceedance is identified)
Exceedance for two or more consecutive samples	Notify IEC, ER, Contractor and EPD;     Identify source;     Repeat measurement to confirm findings;     Increase monitoring frequency to daily;     Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented;     Arrange meeting with IEC and ER to discuss the remedial actions to be taken;     Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results;     If exceedance stops, cease additional monitoring. (The above actions should be taken within 2 working days after the exceedance is identified)	Discuss amongst ER, ET, and Contractor on the potential remedial actions;     Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly;     Supervise the implementation of remedial measures.	Confirm receipt of notification of failure in writing;     Notify Contractor;     In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented;     Ensure remedial measures properly implemented;     If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated. (The above actions should be taken within 2 working days after the exceedance is identified)	Take immediate action to avoid further exceedance;     Submit proposals for remedial actions is IEC within 3 working days of notification and implement the agreed proposals;     Resubmit proposals if problem still not under control;     Stop the relevant portion of works as determined by the ER until the exceedance is abated. (The above actions should be taken within 2 working days after the exceedance is identified.)

## Appendix 6.2

Summary for Notification of Exceedance

Ref. No.	Date	Time	Location	Measured TSP Level	Unit	Action Level	Limit Level	Follow-up action	
X_16A004	27-Aug-16	13:00	CMA1b- Oil Street Site Office	393.7	1 hr TSP (ug/m³)	320.1	500	Possible reason:	Elevated TSP level in relate to local ambient condition around monitoring station
								Action taken / to be taken:	Reviewed the trend of air quality measurement across monitoring stations. Analysis of contractor s working procedures.
								Remarks / Other Obs:	No construction works was undertaken on the monitoring date at around Oil Street Site Office under Contractor of HY/2009/19, dust suppression measure including haul road maintained in dampened condition was implemented and no particular observation regarding air quality impact was observed during sampling. In view of the above, the action level exceedance was considered to be non-project related and contributed by local ambient condition.
X_16A005	27-Aug-16	13:00	CMA1b- Oil Street Site Office	393.7	1 hr TSP (ug/m³)	320.1	500	Possible reason:	Elevated TSP level in relate to local ambient condition around monitoring station
					(3')			Action taken / to be taken:	Reviewed the trend of air quality measurement across monitoring stations. Analysis of contractor s working procedures.
								Remarks / Other Obs:	Only formboard erection and rebar fixing works were undertaken on the monitoring date at around Oil Street Site Office while the haul road around the concerned location was hard paved and no particular observation regarding air quality impact was observed during sampling. In view of the above, the action level exceedance was considered to be non-project related and contributed by local ambient condition.

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.	1) It was referred by AECOM to ET on 28 July 2011 2) 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. 3) As a mitigation measure to minimize the noise nuisance in the vicinity of the residents, rock breaking activities will be started at 8am and is expected to be completed by mid-August 2011. 4) No noise exceedance was recorded at construction noise monitoring station at Victoria Centre on 19 and 25 July 2011 during daytime and evening time period while breaking and excavation works were observed during monitoring. 5) In conclusion, it was related to the construction works under Contract HY/2009/15 and mitigation measure was provided. The complainant was satisfied with the arrangement and no further complaint was received after	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	proposed measures.  1) It was referred by AECOM to ET on 8 August 2011 2) RSS confirmed to start the rock breaking activities for Contract HY/2009/15 at 8am as a mitigation measure to minimize the noise nuisance in the vicinity of the residents. 3) 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 4) In conclusion, it was related to the construction works under Contract HY/2009/15 and mitigation measure was provided. The complainant was satisfied with the arrangement and no further complaint was received after proposed measures.	Closed
110727a	27/07/2011	Mr. Law from Victoria Centre Management Office by ICC no. 1-304616162	North Point	It was complained by Mr. Law from Victoria Centre Management Office on 27 July 2011 regarding construction noise generated by the construction operations of	1) It was referred by AECOM to ET on 28 July 2011 2) RSS confirmed to start the rock breaking activities for Contract HY/2009/15 at 8am as a mitigation measure to minimize the noise nuisance in the vicinity of the residents. 3) No noise exceedance was recorded at construction noise monitoring station at Victoria Centre on 25 July and	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.	4 August 2011 during daytime and evening time period while breaking and excavation works were observed during monitoring. 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.	
	27/07/2011	Ms. Chiu by ICC no.1-304615409	North Point	Noise nuisance from the excavation works for the Highways Department adjacent to the Victoria Centre was conducted from 7am	1) It was referred by AECOM to ET on 28 July 2011 2) With reference to the construction noise monitoring at Vitoria Centre, no exceedance was recorded on 25 July and 4 and 10 August 2011 during daytime while breaking and excavation works were undertaken during monitoring. 3) As a mitigation measure to minimize the noise nuisance in the vicinity of the residents, rock breaking activities will be started at 8am.	Closed
	07/08/2011				4) However, complainant did not satisfy with the response on the noise nuisance from the rock-breaking during morning in front of Victoria Centre and then further complaint via 1823 on 7 August 2011.  5) Highways contacted the complainant on 15 August 2011 that the noisy rock breaking operation had been completed.	
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.	Remarks: There will be counted as two complaints in this complaint log.  1) It was referred by AECOM to ET on 1 August 2011. 2) RSS confirmed that noisy plants from 2 vibratory hammers have been conducted in alternating manner for pilling and drilling works for diaphragm wall construction. 3) 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 pilling works were undertaken during monitoring. 4) In order to reduce the noise impact to nearby noise sensitive receivers, Contractor has been implemented the following noise mitigation measures:  - Erection of acoustic lining at the hoarding next to Four Seasons Hotel; - Temporary noise barrier with extended acoustic lining; - Reduced in plant such that only have one vibration	Closed



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.	1) It was referred by AECOM to ET on 17 August 2011. 2) Confirmed with RE, Muddy water was caused by a heap of earth being washed to the sea by heavy rain. The heap of earth was referred as a small stockpile placed close to the seafront in front of Oil Street within the site area under handover transition period from contract HY/2009/11 to contract HY/2009/19. The necessary mitigation measures to protect the small stockpile against rainfall were missing at the time of complaint. 3) Due to the missing of mitigation measures to protect the small stockpile during handover transition period, loose material was washed into the harbour when heavy rain came. Muddy water was formed and dispersed in the sea that caused the water quality and visual concern to the public. The complaint was considered as valid. 4) Contractors were advised to relocate the loose materials 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.	Closed
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.	1) It was referred by AECOM to ET on 23 August 2011 2) 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. 3) 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.	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	Confirmed with the Resident Site Staff that the construction works were referred to the Contractor HK/2009/01.     The Excavator mounted breaker at Convention Avenue	Closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
				reclamation area.	and Drilling rig at HKCEC1 reclamation area were the dominant construction noise source during this period.  3) The drilling rig at HKCEC1 reclamation area and excavator mounted breaker at Convention Avenue were then temporary suspended after received the complaint.  4) Investigation revealed that the erected noise barrier (4m cantilevered movable noise barrier for the drilling rig and 1m movable noise barrier for the excavator mounted breaker) were not located close to the plants to provide adequate noise screening.  5) Contractor was advised to avoid concurrent operation of construction plants at site. Further enhancement of movable noise barriers at HKCEC1 and providing noise enclosure for the excavator mounted breaker at Convention Avenue are needed.  6) Further site investigation and checking on 31 August and 7 September 2011 revealed that the implemented noise mitigation measures were in proper and minimize the noise impact.	
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.	1) It was referred by AECOM to ET on 29 August 2011 2) Confirmed with the Resident Site Staff that the construction works were referred to the Contractors HY/2009/11 and HY/2009/19. 3) The pump is located on the site area of HY/2009/19 4) 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. 5) An ad hoc inspection of the effectiveness of garbage defender was conducted with RSS (CWB project team), contractor of HY/2009/11 and HY/2009/19 and IECon 29 August 2011. Inspection report of it was submitted to RSS on 19 September 2011. 5) Daily cleaning near the water intake was conducted twice a day by contractor HY/2009/19. 6) 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. 6) According to the complaint letter from Cayley Property, the outcomes of the preventive measures were not complying wih their expectation. 7) During on-site inspection, floating refuses observed	Closed



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					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 8) 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.  9) 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.  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	
111014	14/10/2011	The complainant, Ms. Tam complained via hotline 1823	Wan Chai	The polluted fumes and exhaust from the excavation by sub-contractor of CEDD on pedestrian way outside no.25 Harbour Road (in front of the Harbour Centre)	1) RSS notified ET to carry out investigation on 17 October 2011. 2) ET confirmed with the Resident Site Staff that the location of the excavator was within site area of Contract no. HK/2009/02 undertaking the water cooling main reprovision works along the Harbour Road. The plants including the excavator have been checked before using at the site. However, the polluted fumes and exhausted from the excavator was caused due to insufficient maintenance of the plant after using at site. 3) After receiving the complaint, the excavator was then removal off-site for checking and maintenance works on 17 October 2011. 4) Contractor was reminded to enhance regular checking and maintenance to all plants at site. 5) RSS has replied to the complainant on the arrangement of the measures taken on 17 October 2011. Complainant was satisfied with the response and follow-up action taken by the Contractor.	Closed
111104	04/11/2011	Mr. Liu from	Wan Chai	Complain about a tree near the	Dy the Contractor.      D	Closed



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		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 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	1) According to the information reported by Contractor, one BC cutter and hoist were operated for Diaphragm Wall construction of Shatin-Central Link to inspect bentonite pipes and ensure no damages and all the joints are tightened in good position. Then, the subcontractor for Diaphragm wall, SAMBO Korean foreman stopped the engine of the BC cutter immediately. The police officer recorded the details and HKID number of the foreman and then left. Due to the different language communication between the police officer and the Korean foreman, no CNP was checked by the police officer.  2) ET confirmed with the Resident Site Staff that same issue was also raised out by RSS at about 7:00a.m on the same day. Besides, it was confirmed that there is no valid Construction Noise Permit for the conducted construction works in the period between 2300 and 0700.  3) Due to insufficient communication between Contractor HK/2009/01 and their Korean Sub-contractor, Korean Sub-contractor had not notified to Contractor before carrying out the inspection of the BC cutter, hoists and	Closed



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-					bentonite pipes at about 6:00a.m to ensure no damages and all the pipe joints should be tightened and in good position.  4) Contractor was advised to enhance the communication between Contractor and sub-contractor and provide sufficient environmental training to all foreman and operators on restricted hour operation. Futhermore, Construction Noise Permit should be checked and in place for the construction works during restricted hour 5) This complaint was considered in relation to the conducted construction works during restricted hours without valid Construction Noise Permit. No more construction works were conducted during night time period. The construction works will be conducted in accordance with the time period stated in valid CNP. This complaint will be kept in view of any follow-up action from the relevant government activities.	
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.	1) RSS notified ET on 9 Jan 2012. 2) 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. 3) 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. 4) 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.	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.	1) RSS notified ET on 22 Dec 2011. 2) ET confirmed with the Resident Site Staff that the complainant cannot identify whether the trucks were working under the CWB project or not. 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. 4) Confirmed with the Resident Site Staff that they provided a contact no. for any future enquiries regarding	Closed



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					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.	1) RSS notified ET on 6 January 2011. 2) 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 3) 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 qualiuty 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.  4) 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.	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.	1) RSS notified ET on 20 January 2012. 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 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	Closed

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					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.		
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.	ET confirmed with the Resident Site Staff that no piling works were performed during the concerned period.	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Out	tcome	Status
						2012 via 1823. HyD replied that the current works at CBTS were drilling, diaphragm wall construction and deep excavations. In order to minimize the noise generated from the above works, the Contractor had erected temporary noise barriers and provided noise blankets on plants. RSS would continue to work with the Contractor on the effectiveness of the environmental mitigation measures implemented on site. No further complaint was received after the response.	
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.	3)	RSS notified ET on 17 April 2012. ET confirmed with the Resident Site Staff that there was no operation of power generators for HY/2009/19 and HY/2009/17 (HY/2009/11 had no physical work on site) during the concerned period. Although there were a few barges mooring at the seafront of HY/2009/19, they were not in operation and hence no operational noise would be emitted.  After reviewing the results of noise monitoring (M4b and M5b), no exceedance was recorded during day time period and the noise level was below 75dB(A). Site inspection for HY/2009/19 was conducted on 18 April 2012. The condition of noise mitigation measures near Harbour Heights were found satisfactory. RSS confirmed that no operation of power generators for HY/2009/19 and HY/2009/17 (HY/2009/11 had no physical work on site) during the concerned period. Although there were a few barges mooring at the seafront of HY/2009/19, they were not in operation and hence no operational noise would be emitted.  HyD made a reply to the complainant on 30 April 2012 via email. HyD replied that the current works near Oil Street, North Point, included CWB tunnel works, IEC connections and associated foundation works. According to RSS records, no operations were performed during the early hours of March and April at Oil Street and the waterbody nearby, and so it was believed that the noise nuisance was not generated from the CWB project. Despite that, RSS would continue to monitor the Contractor on the operations and effectiveness of the environmental mitigation measures implemented on site, as not to affect daily life of local residents nearby. No further complaint was received after the response.	Closed



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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.	<ol> <li>RSS notified ET on 8 Marc 2013</li> <li>ET confirmed with RSS that excavation works, installation of buoy, flashing light and silt curtain and dredging works were undertaken at Eastern Breakwater during the concerned period on 6 March 2013. One backhoe equipped with breaker and one derrick barge were confirmed in operation while another backhoe was at idle during the concerned period on 6 March 2013.</li> <li>Reviewing the photo record provided by RSS, the condition of the silt curtain deployed around the Eastern Breakwater on 6 March 2013 was found to be in good condition. It is considered that the silt curtain was properly in place during the concerned period and the concerned act of dropping of fine rock material was confined within the silt curtain boundary without adverse impact to the nearby water quality.</li> <li>Further follow up was conducted on 12 March 2013 during weekly environmental audit inspection, the silt curtain deployed around the concerned area was found to be maintained in good condition and the water quality at the concerned work area was generally satisfactory. No violation of the Environmental Permit condition was found.</li> <li>The contracotr was advised and committed to implement preventive meaures to miminize the potential impact of work including conducting regular diver check to ensure the integrity and the extend of silt curtain deployment and to provide adequtae back up stock of silt curtain for emergency use.</li> </ol>	Closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
130606	30/5/2013	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.	1) RSS notify ET on 6 June 2013 2) ET confirmed with the Resident Site Staff that  According to the information provided by RSS, 13 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 no. of tree- Khaya senegalensis (T1712) raised by the complainant was found to be in poor health condition.  No construction works was undertaken by Contract 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.  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 (T1674,T1675,T1676,T1677,T1678,T1679,T1680,T1681,T1683,T1644,T1643,T1641,T1639) at the concerned planter area were contributed by natrual life cycle of the affected trees and the health condition of the affected trees were considered to be fair. It was also noted that an active CEDD works area was located within 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 trees (T1644,T1643,T1641,T1639)  According to tree inspection records from Jan 2013 to May 2013 confirmed by RSS (Document Ref: CI-F1-043b, CI-F1-044b, CI-F1-045b, CI-F1-046b, CI-F1-047b), the affected tree (T1712) at the concerned planter area was considered to show sign of withering and considered to be in poor health condition in latest tree survey report confirmed by RSS.	Closed



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					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.	
					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)	
					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.	



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	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.	1) RSS notify ET on 11 June 2013 2) 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  - Breaking up existing D-wall concrete and excavation at portion 4B and 4C - Sheet pilling works at Portion VI (Man Kat Street)  3) 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.  Reviewing the noise monitoring data at monitoring stations (M7e- Internation 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 event on 28 May 2013 and 03 June 2013. As similar construction works activities conducted on 30 May 2013 was continued across the above monitoring period, the noise emanated from the construction activities under Contract HY/2009/18 was considered to complied with the statutory requirement.  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.  As such, no direct information associated with the noise concerned raised was considered available and no non-conformity was identified.  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.	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	and Received By 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;	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.	Final investigation report issued on 20 Dec 2013. Case closed on 3 Jan 2014.
					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.	



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  -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 sheetpilling demolition of exisiting 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 generation works were confirmed in place despite a 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	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 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.

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
Log No.	Complaint	and Received by	Complainant		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 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 at the above period.  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 pump (lorry mounted), 1 no. of vibratory poker were found operating at the above period.  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,  No accoustic installation was provided for the relevant PME(s) used as stated in CNP conditon 3.d.during the concerned concreting works.  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.  From 0000 to 0700 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.  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 unable to comply with condition 3.a. in CNP no.GW-RS1384-13.	



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.	Case closed and full investigation report issued on 6 Feb 2014.
					Based on the photo records and information verified by RSS, noise mitigation measures 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	



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

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

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Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					operation at the above period.  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.  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.  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.  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 & machinery through cross harbour tunnel shall be conducted after mid-night.  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 requirements such that the Construction 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).	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
20140801	30 July 2014	ICC complaint (ICC Case Ref.: 2-360638977)	Area opposite to Habour Heights	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	Final investigation report issued
		received by ET on 01 August 2014		S	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.	on 12 Aug 2014.
					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.	
					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 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 Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
			Оприши		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 Victoria 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 cased to the surroundings and the Contractor of HY/2009/19 will replace 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.	



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 night and on 26 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 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 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 Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
			Оприши		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 Victoria 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 cased to the surroundings and the Contractor of HY/2009/19 will replace 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.	



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.	Final investigation report submitted on 14 Oct 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.	



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	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

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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
					From 23:00 hrs to 06:00hrs, panel replacement works was conducted under Contractor of HK/2009/02 at the Temporary Covered Walkway. Total one scissor platform and two hand held drills (battery) were in operation.  From 23:00 hrs to 06:00hrs, trial pit works was conducted under Contractor of HK/2009/02 at Hung Hing Road. Total one crane lorry was in operation.  In view of the above findings, no direct information associated with the noise concern was considered available.	
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)	Interim investigation report submitted to EPD on 19 November 2014.
					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.	EPD advised no comment on the interim report and case closed on 8
					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.	Dec 2014.
					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.	



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	

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.

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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	



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					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 implemented to minimize potential nuisance to nearby public.	
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	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.	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.
					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.	

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					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.	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.
					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. Either 1 no. of dump truck and 1 no. of excavator was operated on site at each given time during the	



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					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 the course for work.	
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	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."	Final Investigation report issued on 20 April 2015 and case closed
					ET confirmed with the Resident Site Staff that the concerned lighting for the banners was maintained under Contract HY/2010/08.  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.	



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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 works undertaken by other parties at the concerned period.	Final Investigation report issued on 18 May 2015 and case closed



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Log No. 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	Complainant  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 wheelwashed	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 Gate V2 and Gate V3 have been closed from 31 May 2015 and formed part of the construction site area. Follow up inspection was conducted on 3 June 2015 during weekly environmental inspection and mitigation measures including wheel washing were	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.
					implemented at construction exit gates around the concerned location despite a vehicle was observed leaving the 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.	



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					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.	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.  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.  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	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.



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					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.	
					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-RS0223-15 and 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 potential noise nuisance to nearby public.	
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	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.



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					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	
					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	



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					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	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:  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.  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.  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 vehicle (License Plate JV 7319 labelled as Chun Wo) was confirmed not belonging to the Contractor of HY/2009/19.  Follow-up inspection was conducted during weekly environmental inspection on 14 July 2015, no direct discharge connection was further observed on site.	Updated Final investigation report submitted on 27 July 2015.



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					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	A public complaint regarding malodour referred by EPD was received by ET on 23 July 2015 (EPD Ref.: H05/RS/00018040-15 dated 23 July 2015).  The complainant reported that malodour from marine sediment was scented at ex-Wanchai ferry pier near route 720 & 722 bus stop. (Contract HK/2009/02).  ET confirmed with the Resident Site Staff that Rockfill placing works was conducted by one derrick barge at the concerned location (WCR3) under Contract HK/2009/02 on 20 July 2015. No marine sediment was stored or placed on site at the concerned location under Contract HK/2009/02 on 20 July 2015.	Interim report submitted to EPD on 30 July 2015. EPD advised no comment on 17 August 2015 on the interim report submitted and case closed.
					According to the relevant site records under Contract HK/2009/02, rockfill placing works was conducted by one derrick barge at WCR3 area on 20 July 2015 and no marine sediment was stored or placed on site at the concerned location on the concerned date.	



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-					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 malodour impact to nearby public.	
150904	01 Sept 2015	EPD Ref.: H05/RS/0002 2241-15 dated 04 September 2015 received by ET on 4 September 2015	East of New WanChai Ferry Pier	Dropping of excavated material from land to sea during laoding of material	A public complaint regarding dropping of excavated material from land to sea referred by EPD was received by ET on 04 September 2015 (EPD Ref.: H05/RS/00022241-15 dated 04 September 2015). The complainant reported that dropping of excavated materials from land to sea during loading of materials by excavator at the construction site to work boat. (Contract HK/2009/02)  ET confirmed with the Resident Site Staff that transferring of C&D materials from land to hopper barge by excavator at seaside along CWB Tunnel Portions 3 and 4 was undertaken by Contract HK/2009/02 on 01 September 2015.  Mitigation measure including providing tarpaulin sheet to cover the gap between seawall and the hopper barge to prevent dropping of material to the sea was implemented by the Contractor.	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.
					According to the relevant site records under Contract HK/2009/02, transferring of C&D materials from land to hopper barge by excavator at seaside along CWB Tunnel Portions 3 and 4 was carried out on 01 September 2015 and mitigation measures including provision of tarpaulin sheet between	



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					seawall and the hopper barge was implemented by the Contractor of HK/2009/02 on the concerned date. Follow-up inspection was conducted during weekly environmental inspection on 10 September 2015. Transferring of C&D materials from land to barge by excavator was observed at the concerned location and mitigation measures including provision of tarpaulin sheet between seawall and hopper barge and the material transfer works was generally in order. Nevertheless, the Contractor of HK/2009/02 was reminded to maintain the handling procedure for C&D materials transfer from land to hopper barge and regularly inspect the condition of the tarpaulin sheet provided to ensure the nearby water quality are not affected by the loading and unloading of material from land side to hopper barge.	
					The Contractor was reminded to maintain the handling procedure for C&D materials transfer from land to hopper barge and regularly inspect the condition of the tarpaulin sheet provided to ensure the nearby water quality are not affected by the loading and unloading of material from land side to hopper barge.	
150904	02 Sept 2015	EPD Ref.: H04/RS/0002 2385-15 dated 04 September 2015 received by ET on 04 September 2015	Location outside Fleet Arcade	Construction noise was generated from the construction site of HK/2012/08 at location outside Fleet Arcade during night time on weekdays and daytime during General Holidays. The complainant also concerned construction dust and exhaust emission from derrick barges during	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



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				transporting C&D material	ET confirmed with the Resident Site Staff that from	3 <sup>rd</sup> interim
				at the site.	0800 hrs to 1800 hrs on 30 August 2015, removal of	report
					scaffold and timber and installation of bulkhead was	submitted to EPD on 31
					undertaken by the Contractor of HK/2012/08 at the	Dec 2015
					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.	
					Total one derrick barge was in operation.	
					From 2300hrs on 01 September 2015 to 0700hrs on	
					02 September 2015, no construction works was	
					undertaken by the Contractor of	
					HK/2012/08 at the concerned location.	
					One derrick barge was deployed for unloading of	
					soil on 02 September 2015 during daytime under	
					Contract HK/2012/08 at the concerned	
					location.	
					Based on the relevant site records, from 0800 hrs to	
					1800 hrs on 30 August 2015, removal of scaffold	

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					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 disposed of at Victoria Habour.  The Contractor recently deployed mobile crane to transfer the bentonite from mud pit on to works barge. The bentonite was then mixed with soil and transported to the Public Fill. During the course, seepage of slurry through grab generated drop off to marine waters and the soil mixing generated dust impact to nearby yacht club, typhoon shelter and affect nearby public and boats.  Disposal of dredged marine sediment was not carried out in accordance with the Management of Dredged/Excavated Sediment. Instead the marine sediment was covered by sand and soil and transported to the Public Fill.  White or greyish effluent was discharged directly into Victoria Habour marine waters from wastewater treatment plant on construction site.  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	Interim investigation report submitted to EPD on 24 November 2015.  2nd interim investigation report submitted to EPD on 17 December 2015.  3rd interim investigation report submitted to EPD on 31 December 2015.  Final investigation report submitted to EPD on 31 December 2015.  Final investigation report submitted on 5 February 2016.

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



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					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	received by	outside City	windblown slapping of a	by RSS was received by ET on 27 November 2015	investigation report to be
case (ICC Ref: 2-		ET on 27 November	Garden Block 11	metal onto adjacent barrier at night time	(ICC Case Ref.: 2-1593165694 dated 26 November	issued on 01
159316569		2015		at night time	2015). The complainant reported that noise was	December
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	
2015					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.	

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Complaint Log No.	Date of Complaint	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.	
EPD complaint case (EPD Ref: H04/RS/00 028924-15 dated 04 December 2015	12 Novemb er 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.	1st interim report submitted to EPD on 14 December 2015  2nd 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.	
					A multiple consultaint managing a size insured unformed	Final variant
ICC	14 Decemb	EPD complaint	Construction area outside City	Incessant noise emanating from the construction site	A public complaint regarding noise impact referred by RSS was received by ET on 16 December 2015	Final report was issued on
complaint case (ICC	er 2015	received by	Garden Block 10	of the Island East Corridor	(ICC Case Ref.: 2-1656689815 dated 14	23 December
Case Ref:		ET on 04	and Block 11	link that forms part of the	December 2015). The complainant reported that:	2015 and
2- 165668981		December 2015		Central Wanchai Bypass Project	December 2013). 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	

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					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 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			received by ET on 22 January	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.	Interim investigation report submitted to EPD on 01 February 2016. EPD advised on 17 February no comment on the interm
					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	report submitted and case closed.
					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.	
					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/2009/15 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
ICC Ref.: CASE#2- 193863740 3 dated 01 March 2016	01 March 2016	ICC complaint received by ET on 03 March 2016	Lung King Street near the parking spaces for motorcycles	Construction noise was emanated from road works	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.  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	1st investigation report issued on 11 March 2016.  2nd investigation report issued on 23 March 2016 and case closed.
					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
					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.	



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.	Interim investigation report submitted to EPD on 18 March 2016.
					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	

HK/2012/08 from 08:00hrs to 18:00hrs on 07 2016 and two excavators were in operation at location while erection of falsework for culvert was carried out near the waterfront of Lung Ki Street from 08:00hrs and 18:00hrs on 07 Mar 2016 under Contract HK/2012/08 and one lon crane was involved for lifting falsework eleme Dust suppression measures including the use water sprinklers along the site haul road was implemented by the Contractor of HK/2012/08 removal of floating refuse was regularly condu at the waterfront of Lung King Street by the Contractor of HK/2012/08. Upon investigation concerned observed floating foam at the wate of Lung King Street was found originating fron diverted cooling mains discharge.  Follow up inspection was conducted during the weekly environmental site inspection on 15 M 2016 and dust suppression measures includir	Complaint Log No.	Sta	tatus
weekly environmental site inspection on 15 M 2016 and dust suppression measures including		eration at that or culvert L  f Lung King n 07 March d one lorry rk elements. g the use of oad was (/2012/08 and urly conducted by the estigation, the the waterfront	
watering for haul road, tarpaulin sheet covering cement bags stored on site and three side and covering for grouting station were implemented while and no dark smoke emission from the pand machinery deployed on site was observed. Noise mitigation measures including acoustic covering was implementing for excavator moun breaker. In addition, removal of floating refuse site was observed implemented by the Contration of HK/2012/08 and no accumulation of floating refuse was found. The concerned foam origing from diverted cooling mains discharge was observed during inspection and the dispersion the concerned foam of unknown chemical nat was observed isolated from the nearby public		on 15 March s including et covering for e side and top plemented om the plant observed. acoustic vator mounted ing refuse on the Contractor of floating am originating the was lispersion of mical nature	



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:	The interim investigation report was submitted to EPD on 11 April 2016.
					Muddy water was observed discharged from the 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.	
				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.		
					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.  i)Plugging the inlet point of the concerned manhole (connecting to the abandoned U-channel) with concrete;  ii)Plugging the outlet of the concerned manhole	
					(connecting to the observed drain hole) with concrete;	
					iii)Filling the concerned manhole with rubbles; iv)Shifting the unused wastewater treatment plant	
					around the concerned location to other site location for use.	
					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.	
	05 April 2016	EPD complaint received by ET on 05 April 2016	Construction area opposite to Harbour 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 provided by the EPD, no dust suppression measures was implemented during the observed drilling works on 05 April 2016.	was issued to the Contractor regarding the observed incident.
					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.	



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	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.  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.  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 on 27 March 2016.  Nevertheless, based on RSS information, recent tree monitoring report indicates an existing cavity at trunk and the concerned tree T710 has been recommended to be felled in the tree risk assessment Form 2.	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).	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).  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 & silt deposition along the seawall at the concerned location on 12 April 2016.  No discharge point located in the vicinity of 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.	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
					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.  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 and precautionary measures including the provision of concrete bund at 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.  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.	



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 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 related impact to nearby waters.	
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	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.	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.	The interim report submitted to the EPD on 29 June 2016.
					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.	
					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.	



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.	
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.	The interim report submitted to the EPD on 22 July 2016
	30 June	30 June 2016 A public complaint referred by EPD was received by ET on 14 July	30 June 2016  A public complaint referred by EPD was received by ET on 14 July  Complaint  Complaint  Complaint  Construction Site of TS3 near Slip Road 8	30 June 2016 A public complaint referred by EPD was received by ET on 14 July  A public complaint referred by EPD was received by ET on 14 July  Complaint Complaint referred by ET on 14 July  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	A public complaint referred by EPD was received by ET on 14 July 2016 (Case Ref.: Hord works between 0200hrs to 0300hrs and construction dust emission from construction site of 173 near Slip Road 8 section.   ET confirmed with the Resident Site Staff that excavation at T33 and loading of material onto certain and construction works between 1920hrs to a road construction works between 0200hrs to 0300hrs and construction more form and construction of HY200919 was suggested that the direction of HY200919 was also reminded to maintain proper site drainage to direct surface runoff generated from construction works or cleaning to the suppression to avoid potential nuisance to the surroundings.   A public complaint referred by EPD was received by ET on 14 July 2016 (Case Ref.: Hord works between 0200hrs to 0300hrs and construction dust emission from construction works between 0200hrs to 0300hrs and construction works between 0200hrs to 0300hrs and construction works between 0200hrs to 0300hrs and construction of the concern about night time construction noise from construction site of T53 near Slip Road 8 section.   ET confirmed with the Resident Site Staff that execavation at T33 and loading of material onto derrick barge (Shun Tat 28) by crawler crane was undertaken by the Contractor of HY20000hrs to 3900hrs to around 02:00hrs to around 02:00hrs to 3900hrs to around 02:00hrs to 300hrs t

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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	

 	 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.	

#### Appendix 10.1

Construction Programme of Individual Contracts

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Work activity Preparation	4 5	6 7 8	9 10 1	12 13 14	15 16 1	18 19	20 21 22 :	23 24 25	26 27 2	8 29 30	31 1 2	3 4	5 6 7	8 9 10	11 12 13	14 15		19 20 2	1 22 23 2	4 25 26	27 28 2	9 30 31	1 2 3	4 5	7 8 9	9 10 11	12 13 14	15 16 1	17 18 19	20 21 22	23 24 2	5 26 27	7 28 2
Site clearance			Ш				111	$\perp$	##	+	$\pm$	Ш	$^{\dagger}$	#			Ш		Ш	Ш		Ш	$\pm$	Ш			Ш	$\vdash$	+	Ш	Ш	Н	Н
Hoarding erection 2 nos Temporary public light relocation									Ш	Ш	#	Н	Н		$\pm$	+	Н	$\pm 1$	Ш	Н	+		+	Н	H	+	H	Н	#	H	$\mathbb{H}$	+	H
Wheel washing bay demolition Cable detection									Н	+	+	$\mathbb{H}$	$\perp$	+	-	Н	Н	+		Н	H	H	Ŧ	П			H	H		Ŧ	H	H	$\prod$
Sawarana			Н		+	H		$\mathbf{H}$	H	$\blacksquare$	-	H	H		#	$\mathbf{H}$			H	Ш	Ŧ	H	1		#	H		П	H	ш	П	$\blacksquare$	#
Sewerage Sewerage F1.1 ~F1.2	-		1			H	+	+	$\mathbf{H}$	Н	+	Н	+		-	Н	+	+	H		+	Н	+		Н	+	Ш	Н	Н	Ш	Н	Н	
Trial Pit Excavation for manhole F1.1 E1 manhole construction (F.1.1)		+	H	H	H	H			Н		4	H	H		#	H	$\blacksquare$	$\perp$	Ш		$\top$	П		П	Ш			П	$\perp$	##	Щ	#	#
Trench excavation Pipe laving		H		#	#	Ш	$\Pi$		ш	П						Ш	##	$\pm$	##	Ш	$\dagger$	Ш	#			$^{\dagger}$				Ш	Ш	Ħ	Ħ
Backfilling and road reinstatement		#		ш	$\pm$	Ш	ш		ш	Ш			Ш			Ш	$\pm$	$\pm$				Ш	+	Ш	Ш	$^{+}$	Н	$\mathbb{H}$	+	H	+	₩	$^{+}$
Sewerage F1.2 ~F1.3		$\pm$						#				Ш				Н						Н	+	H		Н		H	+	+H	H	+	H
French excavation Pipe laying		+	+		H	Н	+	+	++	Н	+					H		+	H	H		H	+			+	H	$\Box$	$\blacksquare$	$\mp$	H	H	Ħ
E1 manhole construction (F.1.2) Backfilling and road reinstatement	-H		++	H	+	Н	$\mathbf{H}$	+	H	$\blacksquare$	$\mp$	$\mathbf{H}$	+				+	$\blacksquare$	$\blacksquare$		1	H	Ŧ	$\Box$	Ħ	H		H	##	#	Ж	#	#
Sewerage F1.3 ~F1.4		H	Н		#	Н	##	#	$\Box$		#	Ш	$\mp$	#		П	+	1	##	Ш		Ш	#	ш	ш			Ш	Ш	ш	Ш	Ш	Ħ
Irench excavation		#	Ш		1	Ш	ш		Ш	Ш	#	Щ	Ш	ш		Ш				Ш	$\pm$	Ш			Ш			Ш		Ш	ш		$\pm$
Pine laving DI manhole construction (F.1.3)		$\pm$				Ш			Ш										$^{++}$	Ш		Н	+	H	H	Н		++	+	+	Н	+	$^{+}$
Backfilling and road reinstatement		+		H	+	Н	+	H		Н		H	Н		+	Н			$\mathbf{H}$	H		Н	+	$\Box$	$\Box$	H		$\Box$	$\blacksquare$	+	H	H	H
Sewerage F1.4 ~F1.5 Trench excavation		H	H	H	-	Н	-	H	H	H	#	H		#				+	Ш	Н	#	Ш	#		Ш	Н		Ħ	Ш	ш	#	#	Ħ
Pipe laving D1 manhole construction (F.I.4)		#	H	$\prod$	-	H	$\mp$	#	H	Ħ	#	H	$\Box$	#	#			#	Ш	丗	$^{\dagger}$	Ш	$^{\dagger}$	Ш	Ш	ш		#	Ш	#	#	#	$\pm$
Backfilling and road reinstatement				Ш	#	Ш	Ш	#	Ш	Ш	#	#	$\Box$	$\pm$	$\pm$	Ш	$\pm \pm$		Ш	Ш		Ш	$\pm$				#	Ш	Ш	$\coprod$	#	$\pm$	$\forall$
Sewerage F1.4 ~ existing manhole					1	Ш	+	+	$^{++}$	H		H	Н	$\pm$	$\pm$		Ш	+		Ш	$\perp$		+			H	H	H	$\mathbf{H}$	$\mathbb{H}$	H	H	Ħ
Trench excavation Pipe laving		H	H	Ш	$\mathbb{H}$	Ш	$\coprod$	$^{+}$	H	$\mathbb{H}$	$\mathbb{H}$	H	H	+H	+	H	$+\Pi$		F	H	1	H	H	H	H	H	Ŧ	H	H	77	$\mathbf{H}$	H	H
D1 manhole construction (F.1.4) Backfilling and road reinstatement		+	H	H	Ŧ	H	H	I	H	П	$\prod$		H	$\mp$	#	H	$\blacksquare$	$\parallel$			#	H	Ħ		H	H	$\Box$	#	Ш	#	#	#	#
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Air Test				Ш		Н		+		Н			$\mathbb{H}$	+	+	Н	+H	+	Ш	$\mathbf{H}$			+	Н		H	+	$\mathbf{H}$	+	$\mathbf{H}$	H	H	H
Connection Sewerage permanent diversion	-H	H		H	+	Н	+H	H	H	H	$\blacksquare$	H	H	$\blacksquare$	4	Н	$\blacksquare$		Ш	$\Box$	$\blacksquare$		H	$\Box$	Ш	H	#	H		$\blacksquare$	#	Ħ	Ħ
Manholes benching modification (F1.1 and existing manhole)				Ш	$\mp$	H	$\Box$	#	П	Ш	$\blacksquare$	П	П			П	Ħ			Ħ	#					Ħ		ш		##	#	Ħ	#
Stormwater Drainage		П		Ш		$\Box$	+	Ħ	$^{\dagger\dagger}$	Ħ	111	$^{\dagger\dagger}$	Ħ	H		Н	$^{\dagger\dagger}$	$^{\dagger\dagger}$	$^{\dagger\dagger}$	$^{\dagger\dagger}$	+	H	+	++	+	H		H	₩	+++	+	+	H
Stormwater M1000 ~ M1001 Trench excavation		H			#	Ш		#	#	Ħ		ш	Ш			Ш	##	$\pm$	ш	Ш	$\pm$	ш						Ш		ш	#	$\pm$	$\pm$
Pipe laying		ш			$\pm$			$\pm$		Ш		Ш			$\pm$			$\pm$	++	Н	+	Н				Н	+	+	Н	+H	+	H	H
D1 manhole construction (M1000) 2 nos, gully installation		Н		-	+	H	+++	H	H	Н	+	H		+H	+	Н	$\mathbf{H}$	-	H	H	Н	H	H				+	Ŧ	$\blacksquare$	$\blacksquare$	$\mp$	H	Ħ
Backfilling and road reinstatement		Н	$\mathbf{H}$	Ш	H	Н	$\Pi$		П	Н	-	H	Н		$\blacksquare$	$\Box$	+	+	H	$\Box$	$\Box$	H	Ħ	H				H	$\Box$	$\mp$	#	#	Ħ
Stormwater M1001 ~ M1302 Trench excavation		H		Ш	#		$\perp$	Ħ		Ш			Ш		#		ш	11	$\Box$	Ш	#	Ш				Ш		ш	Ш	ш	#		$^{\dagger}$
Pipe laying		Ħ		ш	#	Ш	##			ш	$\pm$		Ш		#		Ш	$\pm$		Ш	$\pm$	Ш				ш			+	$\pm \pm \pm$	#		$\pm$
D1 manhole construction (M1001) Lnos, gully installation										Ш			Ш			Н	$\pm \pm 1$	$\mathbf{H}$		Н	+	Н	+					H	Н	+++	+	+	H
Backfilling and road reinstatement	$\pm$	H		НН		Н	+	+	H	Н	+	H	H	$\mathbf{H}$	-	$\blacksquare$	$\mathbf{H}$	+	$\mathbb{H}$	H	H	Н	1					#	H	#	#	H	Ħ
Stormwater M1302 ~ M1301 Trench excavation		Ŧ	$\blacksquare$		#	Н	$\mathbf{H}$	H		Ш	+	1		+	#	ш	#	#				ш				Ш	$\pm$	#		$\pm$	#	Ħ	$\sharp$
Pipe laying DI manhole construction (M1301)					#			Ħ					Ш	$\pm$			ш	#	ш									#			廿	lt	Ħ
nos, gully installation			ш				Ш				Ш			Ш	$\pm$	Н		$\pm$	Ш				H					$\perp$	+	+	+	Н	H
Backfilling and road reinstatement		+	Ш		+		+	+	H	Н	+H	H	Н	+	+	+	+	-	H	Н	H	$\blacksquare$	Н	H		Н		7	H	$\blacksquare$	$\blacksquare$	H	H
Stormwater M1302 - M1303 French excavation	+H	H	++	Н	H	H	H	H		H	+	-	-	$+\Pi$	$\blacksquare$	$\blacksquare$	$\blacksquare$	$\mp$	H		H	$\Box$				Ш	$\Box$	#	$\Box$	#	#	Ħ	#
Pipe laving DL manhole construction (M1302)		H	#		1	Ш	+	#	Ш	Ħ	$\Box$		Ш	$\pm$			ш	#			Ħ						ш	#	Ш	Ш	#		Ħ
nos, gully installation Backfilling and mad reinstatement			4		#					ш	##		Ш	$\perp$		Ш	Ш	$\pm$		Ш		Ш						Ш	Ш	$\pm \pm$	Ш		$\pm$
			#		$^{\dagger}$						+	H	Н		+	H	+	+	$\mathbf{H}$	Н	+	Н	+	++		Н		+	Н	+	+	H	H
Stormwater M1303 M1304 French excavation		H	+			Н	+	+	H	H	+	$\mathbb{H}$			$\blacksquare$	$\blacksquare$	$\mathbf{H}$	H	H	Н	Ŧ	$\Pi$					$\blacksquare$	#	$\blacksquare$	$\blacksquare$	#		Ħ
Pipe laying 11 manhole construction (M1303)							$\mathbf{H}$	+	-	Н	+	1	Н	$\blacksquare$		41	$\blacksquare$	Ħ		Ш	#	Ш					$\Box$	#	Ш	##	#	П	П
nos, gully installation Backfilling and road reinstatement		H	#				Ħ			Ш			Ш	ш			Ш				$\pm$	Ш	$\pm$							$\pm \pm \pm$	$\pm$		Ħ
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tormwater M1304 ~ Tunnel Carrier Drain rench excavation	+H	Н	+	3	+	Н	+++	+	H	Н			Н	+	+	$\blacksquare$	H	H	H		+	Н			$\blacksquare$	Ш			Ш	$\blacksquare$	#	Ŧ	H
ipe laying D1 manhole construction (M1304)		H	-	$\Box$	+	Н	$\blacksquare$	100		H		#	П	11	-	$\blacksquare$	Ш		$\Box$	Ш	#	Ш								9.2	#		П
Sackfilling and road reinstatement		H	#		Ŧ	П	H	IT		Ш	$\Box$	#	Ш	##	ш	$\pm$	$\Box$	$^{\dagger}$	ш		#	Ш	Ħ	ш					Н		#	H	Ħ
esting		H		ш		Ш	##			Ш	ш		Ш					#			Ħ	Ш	Н							$\pm \pm \pm$	$\pm$	+	H
CTV ir Test						Ш		+				+	Н	+	+	+	+	+	Н	Н	+	Н	Н	++-	++	Н	+	+		$\mathbf{H}$	$\mp$	H	H
Road side barrier and K1 Kerb along SR02		H	++		+	Н	H			Н	+	+	H	+	$\mathbf{H}$	$\blacksquare$			Ш		$\mp$	H	1			Ш	$\Box$	#		111	#	П	Ħ
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recast Kerb installation along SR02 oad side barrier along sr02		1	+	+	+	Н	+++				+	+	H			$\blacksquare$	H	H		H	H		H	$\blacksquare$		H		Ŧ		Ħ	#		
	-	H		Ш		П	Ш			H	$\Pi$	#	H	H		$\parallel$	Ħ	#	H	H	#		H	#		H	##	#	Ш	##	#	$\parallel$	Ħ
Public Lighting and hammer head island		H	+	Ш	+		$\mathbb{H}$	$\mathbb{H}$			$\parallel \parallel$	8	H	H	$\mathbb{H}$	#	Н	+		11	11	H	H	1	4	Ш	$\perp$	#	Ш	111	4	11	H
Pucts laving at west hammer head and precast drawpit installation Pross ducts laving	$\Box$	H			1.1.			H		Ш	#	#	Ħ	#		$\rightarrow$	Ш			$\parallel$		Ш	Ш	#	$\pm$	Ш			丗	##	廿		H
Jucts laving at east hammer head and precast drawpit installation				$\perp$	П	П								Ш						Ш	1		$\coprod$	$\perp$						$\pm H$	+		H
Cabling by others Tublic Lighting Installation			#					Н		Н			-			+	++	H	H	H	H	H	H	+		Н	$\blacksquare$	+			-	H	F
recast Kerb installation at west hammer head recast Kerb installation at east hammer head						H	П	П		H	$\blacksquare$	Ŧ				$\mp$	Ħ		#	H	H	$\parallel$	H	1			#	#					H
recast Kerb installation at Central island		H			$\prod$	1	##	П		Ħ		#	Ш		Ш	#	Ш	#	Ш				Ш	$\pm$	$\pm$	Ш	$\pm \pm$	廿	Ш			Ш	H
Road Pavement		Н	+		+	H	+++	H	+	H	+++	++	H	+++	+	+	+++	+	++	++		++	H	+		H	++	+	H	+++	+	H	H
lexible Payement Type I			-	+++	++-	+	+++		-	-	1.1	11			1.1.1	1.1	I = I = I	1.1	1 1 1	1.1.1	$\perp \perp$	1:1	H	1.1	1.1		3.11	1 1	111	1.1.1	1.1	1.1.1	1.1

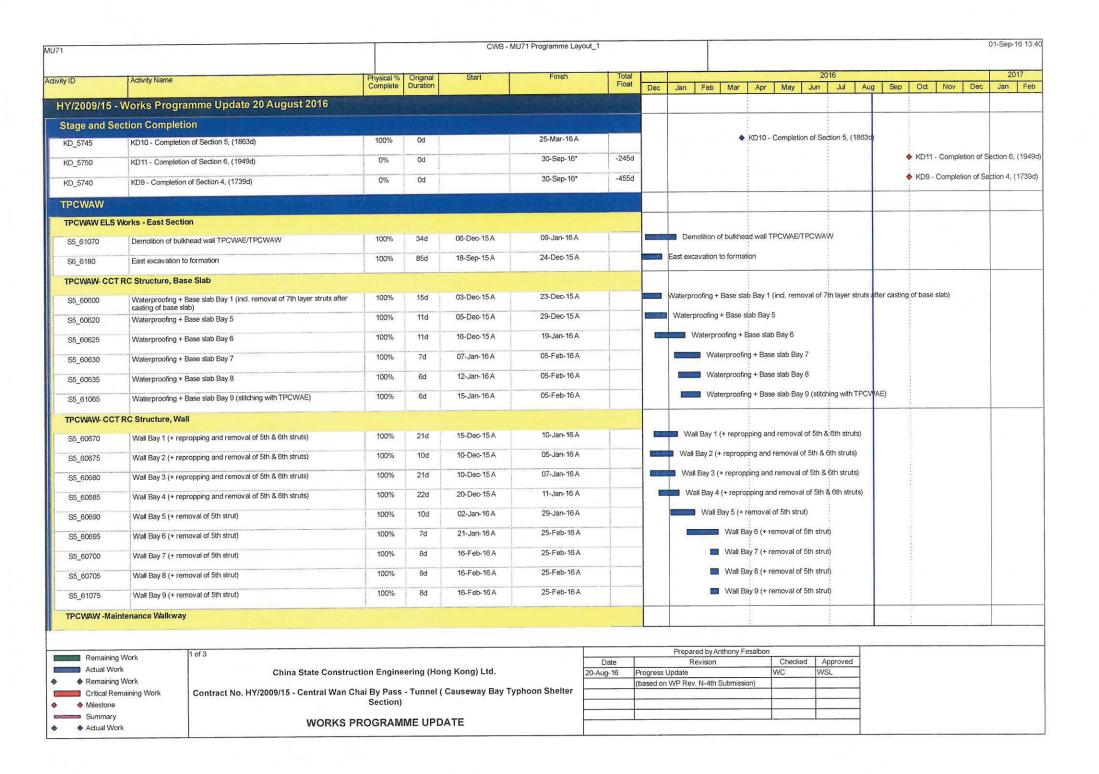
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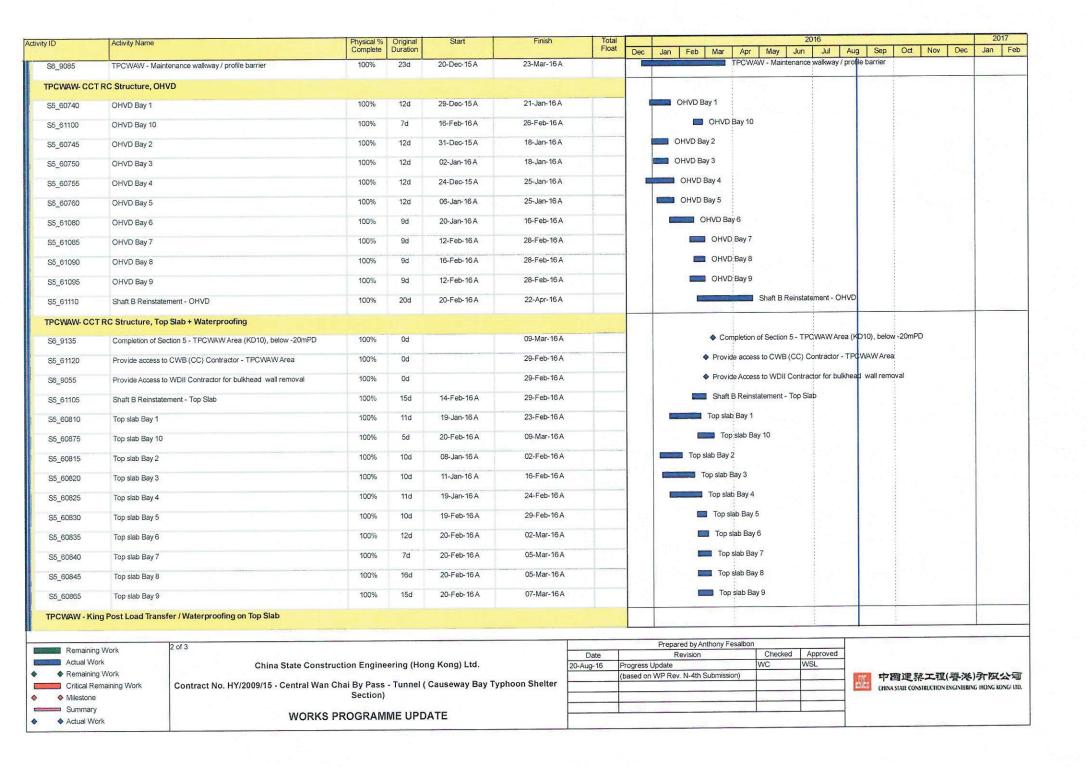
CEDD CONTRACT HK/2009/02

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CEDD CONTRACT HK/2009/02

20-Jul-16 Rev. 18 Critical Milestones **CHUN WO - CRGL** CEDD CONTRACT NO. HK/2009/02 Current Works Critical Works JOINT VENTURE WD II - Central Wanchai Bypass at Wan Chai East (Contract 2) Remaining Level of Effort 3-MONTH ROLLING PROGRAMME (dd 20-Jul-16)





	The Market State of the State o	Physical %	Original	Start	Finish	Total						2017								
ivity ID	Activity Name	Complete	Duration	1000000	***************************************	Float	Dec	Jan		pr Ma		CONTRACTOR OF THE PARTY OF THE	lul	Aug	Sep	Od	Nov	Dec	Jan	Feb
S5_61115	TPCWAW waterproofing - Bay 10	100%	2d	09-Mar-16 A	10-Mar-16 A				I TPCW	AW water	proofin	g - Bay 1	10							
96_9076	TPCWAW King post load transfer + waterproofing (except Bay 10)	100%	26d	04-Mar-16 A	29-Mar-16 A				T	PCWAW K	(ing po	st load tra	ansfer	+ waterpr	oofing	(except l	Bay 10)			
TPCWAW Ren	noval of Temporary Reclamation								1											
S6_9140	Backfilling/Removal of ELS + Re charge water	100%	25d	30-Mar-16 A	04-Jul-16 A					W 75 W 1			Backfill	ing/Remo	oval of	ELS + Re	e charge	water		
S6 7550	Completion of Section 6- (KD11), above - 20mPD	0%	0d		30-Sep-16*	-245d									1.0	Comp	letion of	Section 6	(KD1	1), abov
S6 9105	Remove general fill/ seawall block (concurrent activities)	0%	25d	28-May-16 A	30-Sep-16	Od					HITE					Remo	ve gene	ral fill/ sea	awall blo	ock (co
S6_9120	Saw cut diaphragm wall	44%	75d	20-Jul-16 A	30-Sep-16*	-244d							1000	and the same of th	pkska	Saw o	ut diaphr	ragm wat	11	
Works in Port	tion 11 under KD9 (incl. Reinstatement of Vertical Seawall)																			
S6_9148	Completion of KD9- Works in Portion 11	0%	0d		30-Sep-16	-455d										• Comp	letion of	KD9- Wo	orks in F	Portion
S6_9147	Reinstate ground level at Portion 11	10%	40d	26-Jul-16 A	30-Sep-16	-385d								No.	nt ein	Reins	tate grou	ınd level	at Porti	on 11
S6_9144	Reinstate vertical seawall (by marine plant)	0%	21d	23-Jul-16 A	30-Sep-16	-384d									di yan	Reins	tate vert	ical seaw	/all (by r	marine (

	3 of 3		Prepared by Anthony Fesalbo	חנ
Remaining Work	3013	Date	Revision	
Actual Work	China State Construction Engineering (Hong Kong) Ltd.	20-Aug-16	Progress Update	W
♦ Remaining Work			(based on WP Rev. N-4th Submission)	
Critical Remaining Work	Contract No. HY/2009/15 - Central Wan Chai By Pass - Tunnel ( Causeway Bay Typhoon Shelter			
♦ Milestone	Section)			+
Summary	WORKS PROGRAMME UPDATE			
♦ Actual Work	WORKS PROGRAMME OF DATE	1		

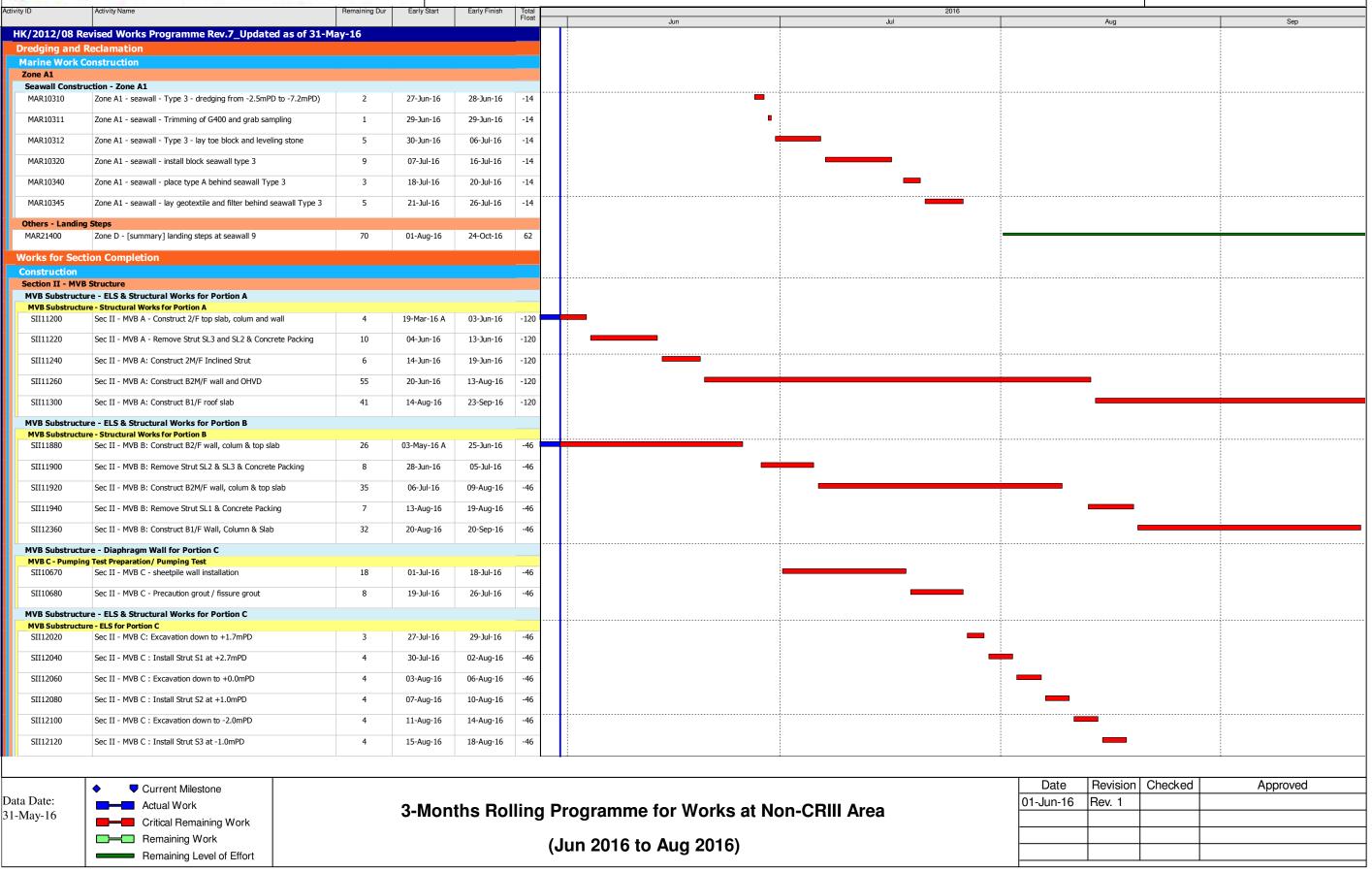
Checked Approved WSL

中國連架工程(香港)有限公司 CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LTD.



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

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

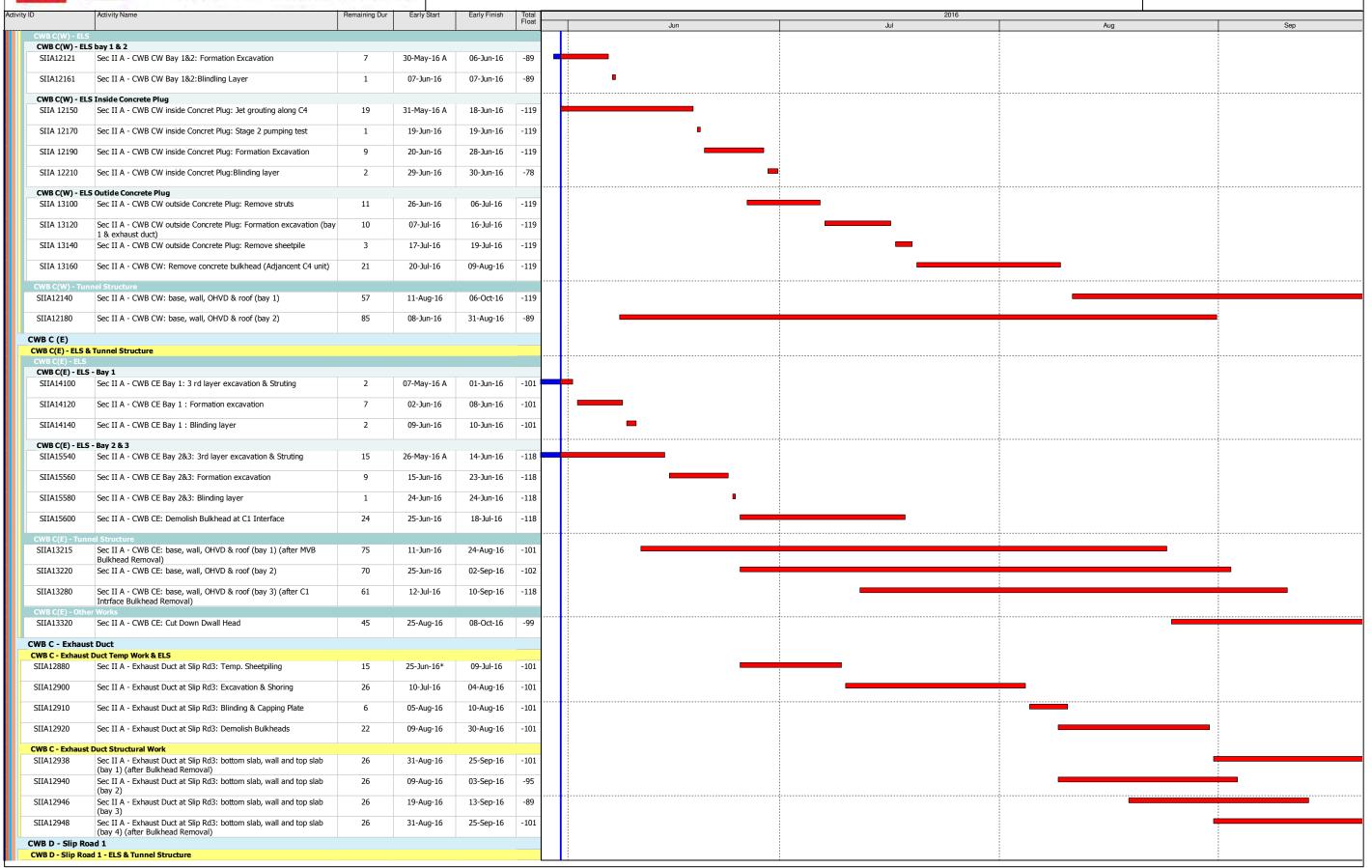
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AMARA D	CHINA STATE - LEADER J	JOINT VENTO	IKE			Central - wan Chal Bypass at wan Chal West	
vity ID	Activity Name	Remaining Dur	Early Start	Early Finish	Total Float	2016 Jun Jul	Aug Sep
SII12180	Sec II - MVB C : Excavation down to -3mPD	3	19-Aug-16	21-Aug-16	-46	50.	- Tag
MVB Substruct	ure - Structural Works for Portion C						
SII12200	Sec II - MVB C : Construct Slab B1/F	16	22-Aug-16	06-Sep-16	-46		
	WB Tunnel & Slip Road Structures and Facilities						
CWB A2(2)  CWB A2 (2) - E	iLS & Tunnel Structure						
CWB A2 - ELS CWB A2 - Wes							
SIIA13445	Sec II A - CWB A2(2): demolition of temp bulk head wall at west en	nd 21	03-May-16 A	20-Jun-16	-79		
	nel Structure		24.7.46	10.4.16	70		
SIIA11700	Sec II A - CWB A2(2): base, wall, OHVD & roof (bay 1 -Adjancent A1)	to 51	21-Jun-16	10-Aug-16	-79		
SIIA11750	Sec II A - CWB A2(2): base, wall, OHVD & roof (bay 2)	54	12-May-16 A	23-Jul-16	-61		
SIIA12492	Sec II A - CWB A2(2): base, wall, OHVD & roof (bay3)	51	28-Apr-16 A	20-Jul-16	-49		
CWB A2 - Othe		45	11 Av. 16	04.0+16	66		
SIIA12530	Sec II A - CWB A2(2): waterproofing and backfill to +4.0mPD	45	11-Aug-16	04-Oct-16	-66		
CWB A2 (2) - As SIIA14320	ssociated Facilities  Sec II A - CWB A2(2): Civil Provisions - lay screeding	7	04-Aug-16	10-Aug-16	-63		
SIIA14430	Sec II A - CWB A2(2): Civil Provisions - cast cable trough	8	11-Aug-16	18-Aug-16	-63		
CWB B & A2(1)			. 3	. 5			
CWB B - ELS & T	Tunnel Structure						
CWB B - ELS CWB B - Insid	le Concrete Plug						
SIIA13562	Sec II A - CWB B Inside Concrete Plug: Jet Grouting at Both Corner	rs 3	23-May-16 A	02-Jun-16	-119	•	
SIIA13582	Sec II A - CWB B Inside Concrete Plug: Stage 1 Pumping Test	1	03-Jun-16	03-Jun-16	-119		
SIIA13602	Sec II A - CWB B Inside Concrete Plug: Jet Grouting along C4	17	04-Jun-16	20-Jun-16	-119		
SIIA13622	Sec II A - CWB B Inside Concrete Plug: Stage 2 Pumping Test	1	21-Jun-16	21-Jun-16	-119		
SIIA13642	Sec II A - CWB B Inside Concrete Plug: Excavation to formation	3	22-Jun-16	24-Jun-16	-102	_	
SIIA13662	Sec II A - CWB B Inside Concrete Plug: Cast top layer of concrete		25-Jun-16	26-Jun-16	-102	_	
	plug and blinding layer					_	
SIIA13682	Sec II A - CWB B: Demolish cocnrete plug (near C4 unit)	18	14-Jul-16	31-Jul-16	-119		
SIIA 15120	ide Concrete Plug Sec II A - CWB B Outside Concrete Plug: Install struts for Layer S2	at 2	30-May-16 A	01-Jun-16	-99		
SIIA 15160	-1.0 mPD  Sec II A - CWB B Outside Concrete Plug: Removal of diagonal strut	ts 5	22-Jun-16	26-Jun-16	-119		
SIIA 15170	for sheetpile at -2.0mPD		27-Jun-16	30-Jun-16	-119		
	•					<u>—</u>	
SIIA 15180	Sec II A - CWB B Outside Concrete Plug: Install Struts S3 at level -5.70mPD	5	01-Jul-16	05-Jul-16	-119		
SIIA 15200	Sec II A - CWB B Outside Concrete Plug: Formation Excavation	4	06-Jul-16	09-Jul-16	-119		
SIIA 15220	Sec II A - CWB B Outside Concrete Plug:Blinding layer and remova of sheetpile	ıl 4	10-Jul-16	13-Jul-16	-119		
CWB B - Exhau	· · · · · · · · · · · · · · · · · · ·	16	22-May-16 A	15-Jun-16	-104		
SIIA 16120	Sec II A - CWB B Exhaust Air Duct: Blinding Layer	6	16-Jun-16	21-Jun-16	-104		
CWB A2(1) & B SIIA13558	3 - Tunnel Structure Sec II A - CWB A2(1): base, wall, OHVD & roof (bay 4 - Adjance to	o 59	20-May-16 A	28-Jul-16	-60		
SIIA13560	Zone A2(2)) Sec II A - CWB B: Air Duct Trough - base & wall (bay 5 - Adajcent		22-Jun-16	16-Jul-16	-104		
	Zone A2(1))	61			-104		
SIIA13600	Sec II A - CWB B: base, wall, OHVD & roof (bay 6)		17-Jul-16	15-Sep-16			
SIIA13660	Sec II A - CWB B: base, wall, OHVD & roof (bay 7 - Adjacent to C4	1) 66	02-Aug-16	06-Oct-16	-119		
CWB A2(1) & B SIIA14460	- Associated Facilities Sec II A - CWB A2(1): Civil Provisions - lay screeding	7	29-Jul-16	05-Aug-16	-50		
SIIA14480	Sec II A - CWB A2(1): Civil Provisions - cast cable trough	8	06-Aug-16	15-Aug-16	-50		
	Section - Cord Az(1). Civil Florisions - Cast Cable Bough	0	00-Aug-10	13-Aug-10	-30		
CWB C (W) - ELS	5 & Tunnel Structure						
						,	· · · · · · · · · · · · · · · · · · ·



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

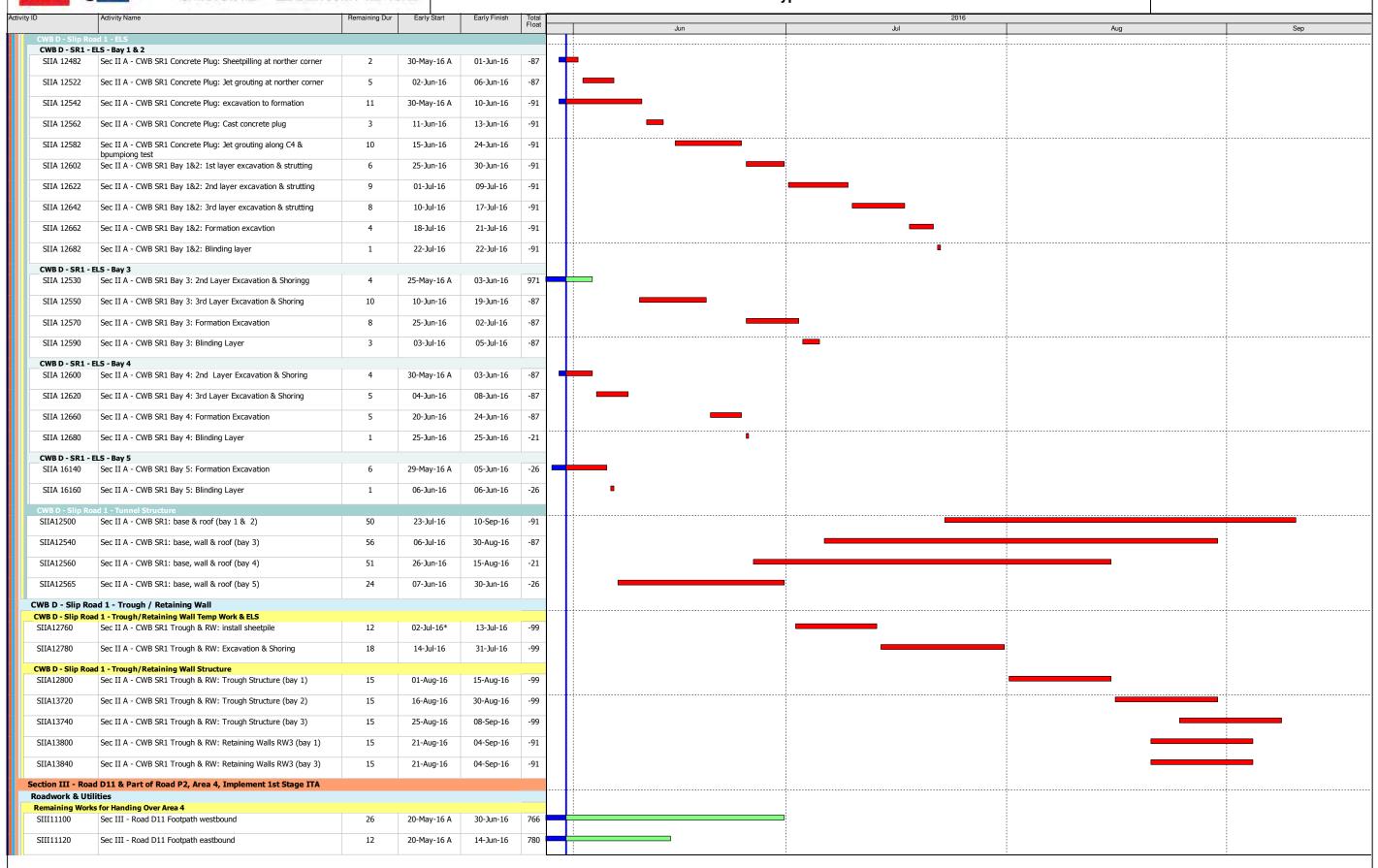
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## CEDD Contract No. HK/2012/08 Wan Chai Development Phase II Central - Wan Chai Bypass at Wan Chai West

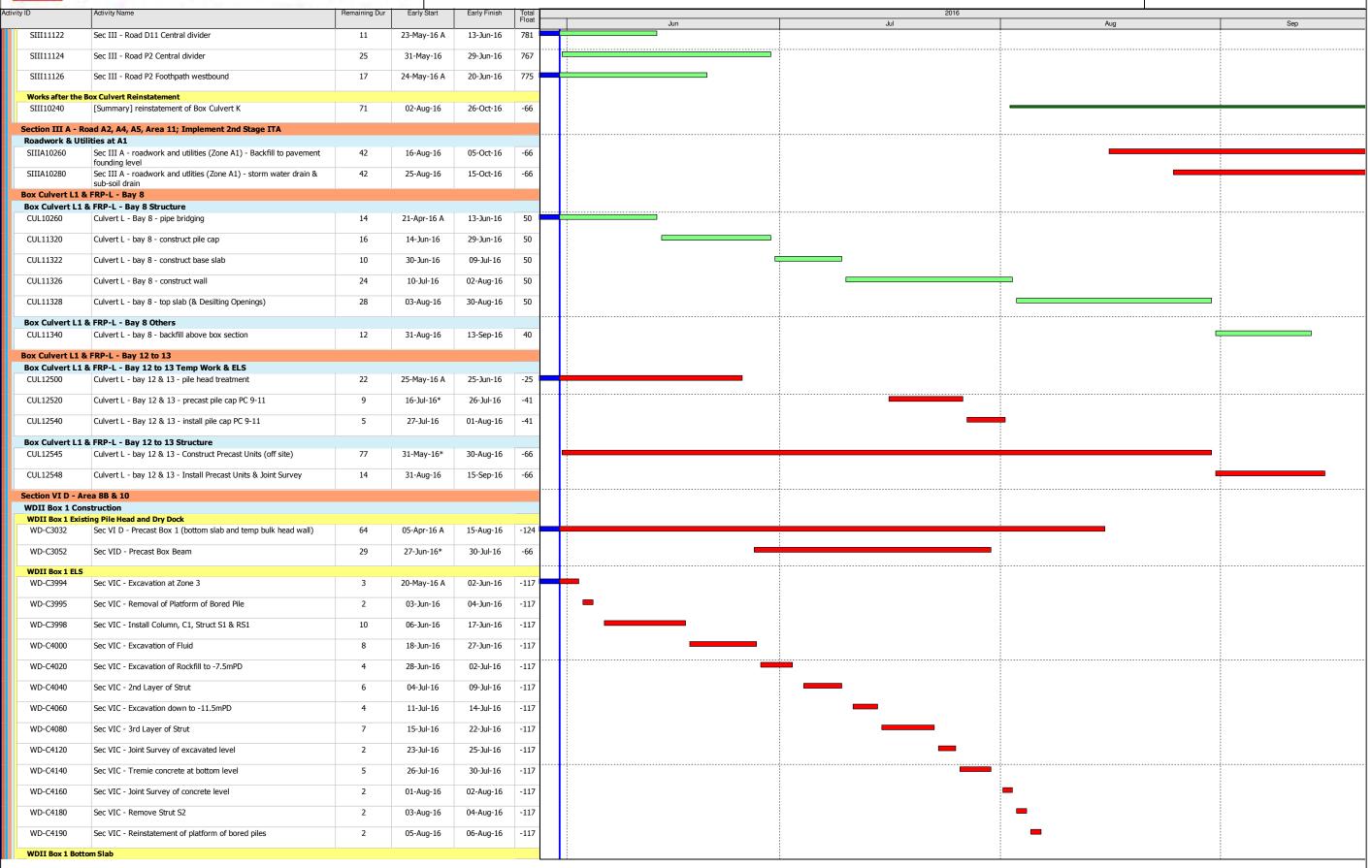
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#### CEDD Contract No. HK/2012/08 **Wan Chai Development Phase II** Central - Wan Chai Bypass at Wan Chai West

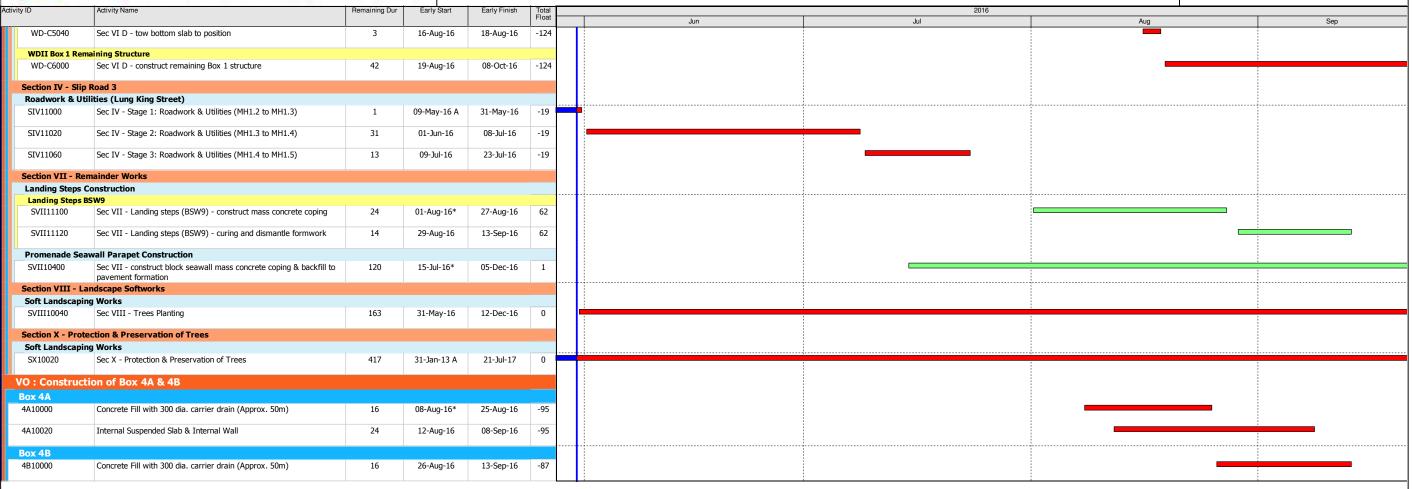
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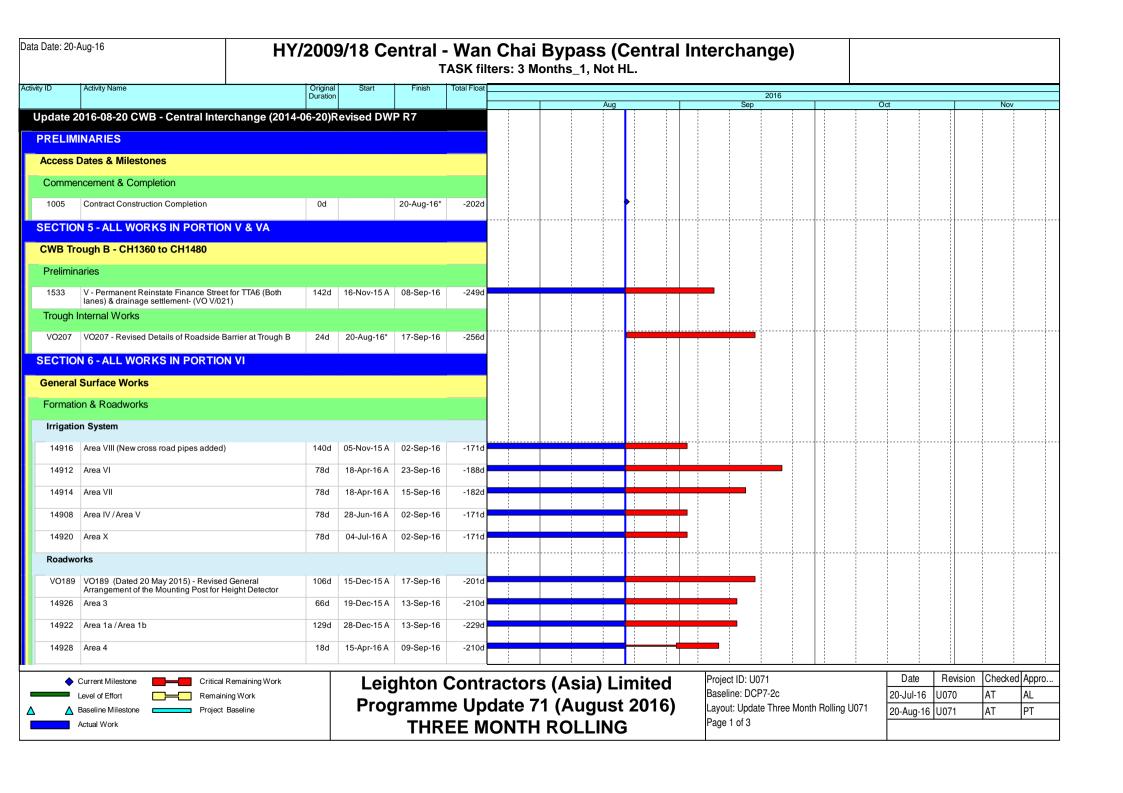


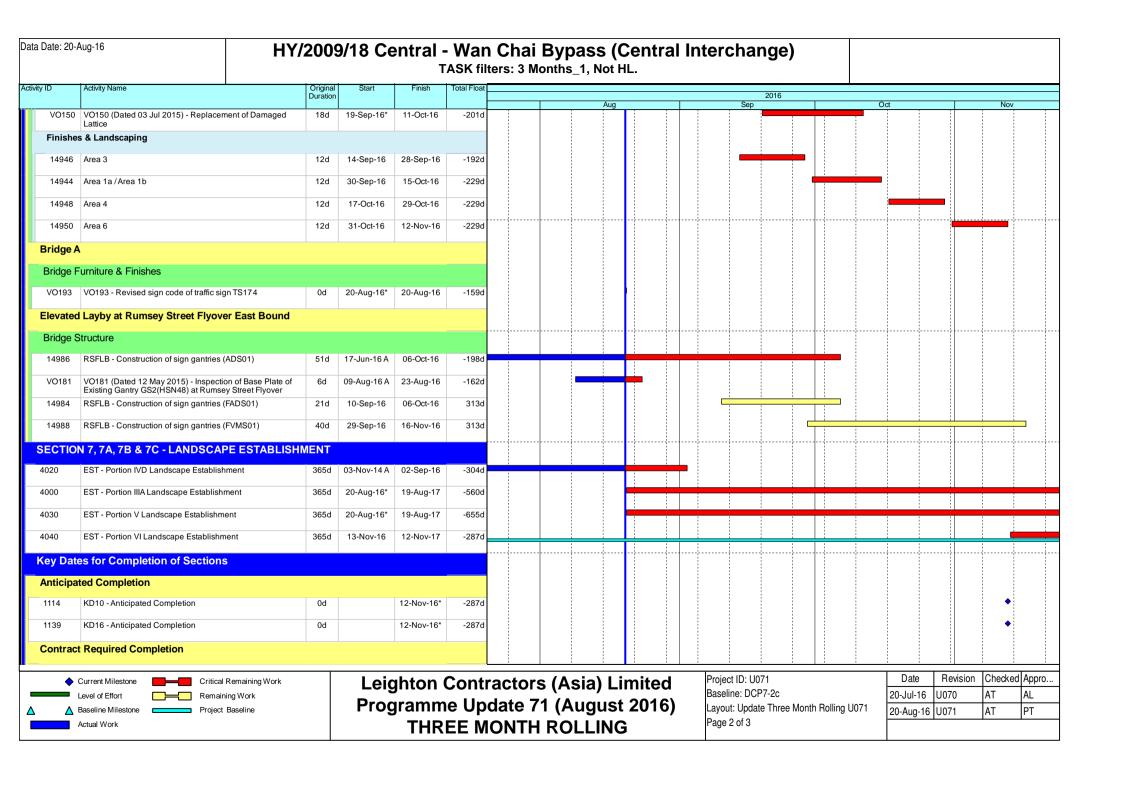


## CEDD Contract No. HK/2012/08 Wan Chai Development Phase II Central - Wan Chai Bypass at Wan Chai West

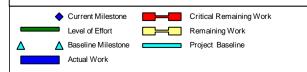
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HY/2009/18 Central - Wan Chai Bypass (Central Interchange) TASK filters: 3 Months\_1, Not HL. Activity Name Activity ID Original Duration Finish Total Float 2016 KD12 - Section 7A Complete (DAY-1870) 1095 0d 20-Aug-16\* -290d 1105 KD14 - Section 7B Complete (DAY-1870) 0d 20-Aug-16\* -290d 1115 KD10 - Section 6 Complete (DAY-1958) 0d 20-Aug-16\* -202d KD11 - Section 7 Complete (DAY-1965) 0d -195d 1125 20-Aug-16\* 1140 KD16 - Section 8 Complete (DAY-1958) 0d 20-Aug-16\* -202d **Portion Handover Dates Anticipated Handover** Portion IIIA Handover - Remaining (KD3 + 28 days) - (EOT 20-Aug-16\* -505d 26.5 days added) **Contract Required Handover** Portion VI Handover (KD10 + 28 days) 20-Aug-16\* -174d

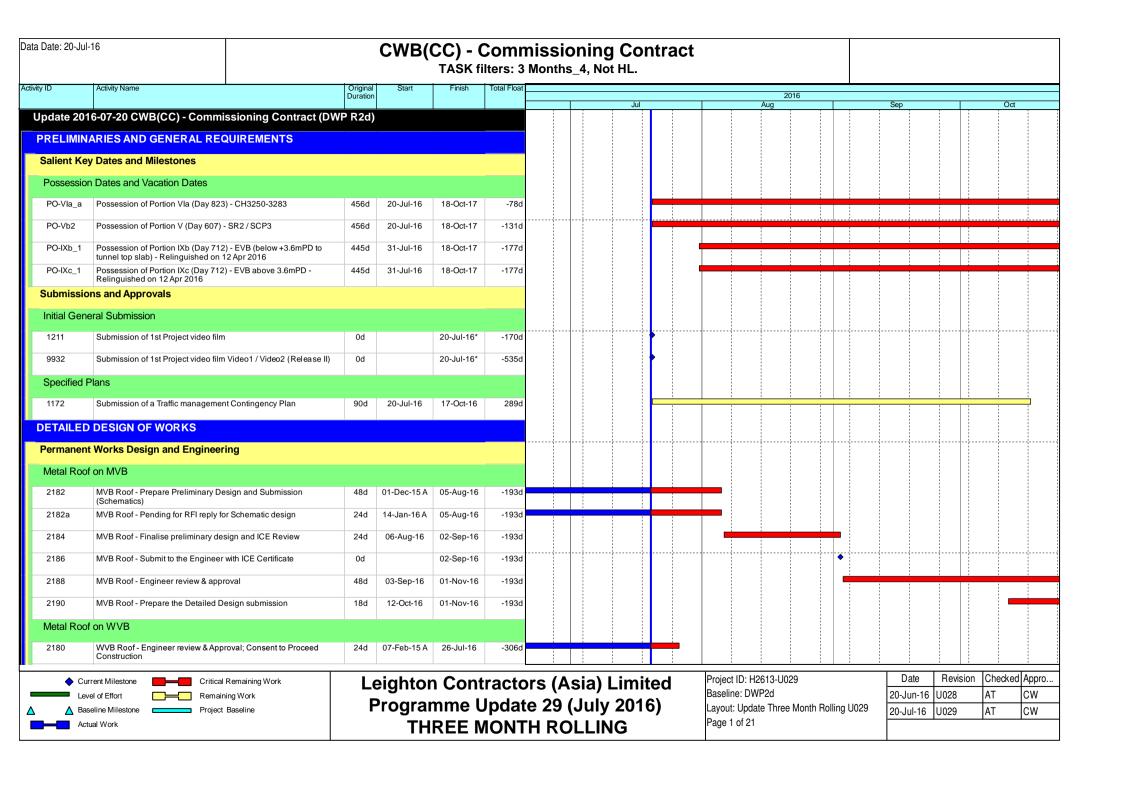


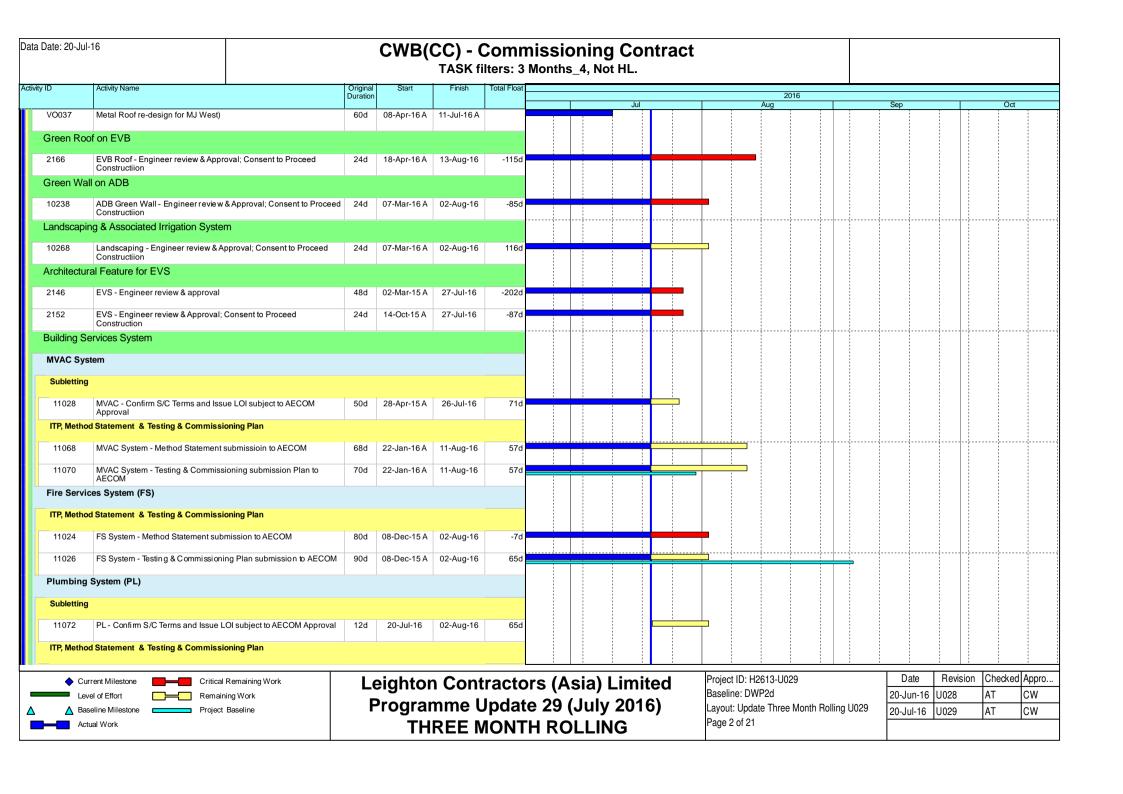
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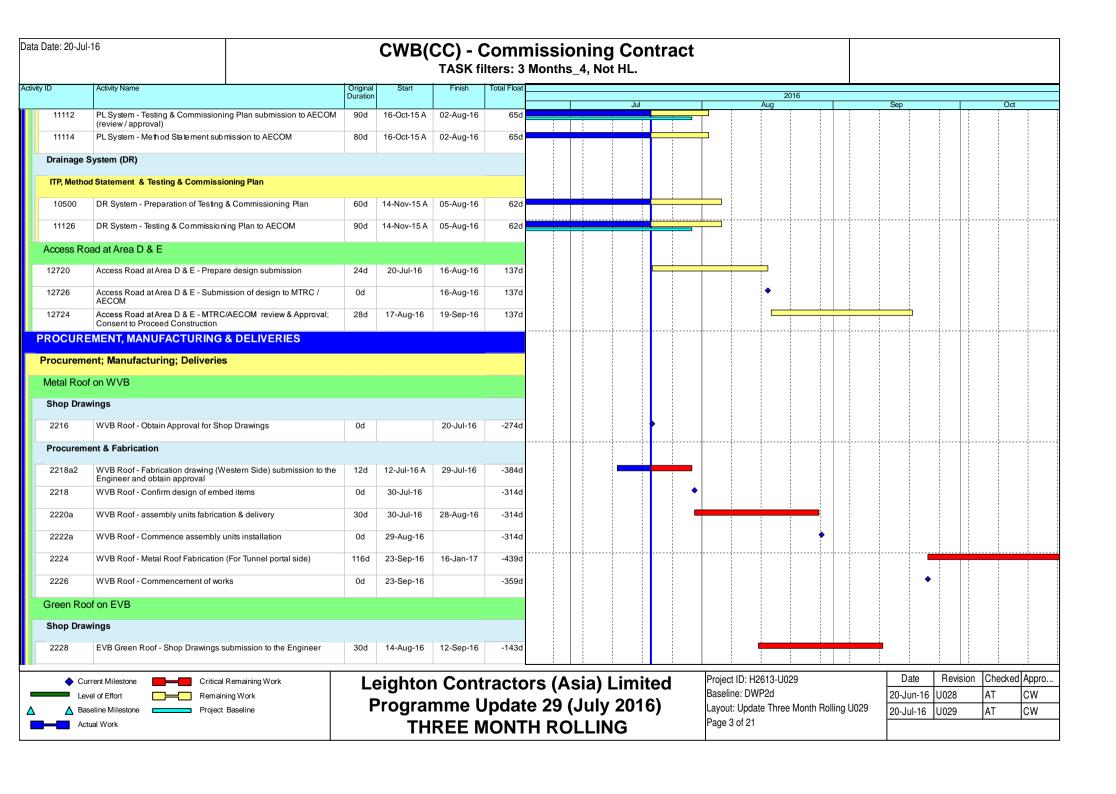
**Leighton Contractors (Asia) Limited** Programme Update 71 (August 2016) THREE MONTH ROLLING

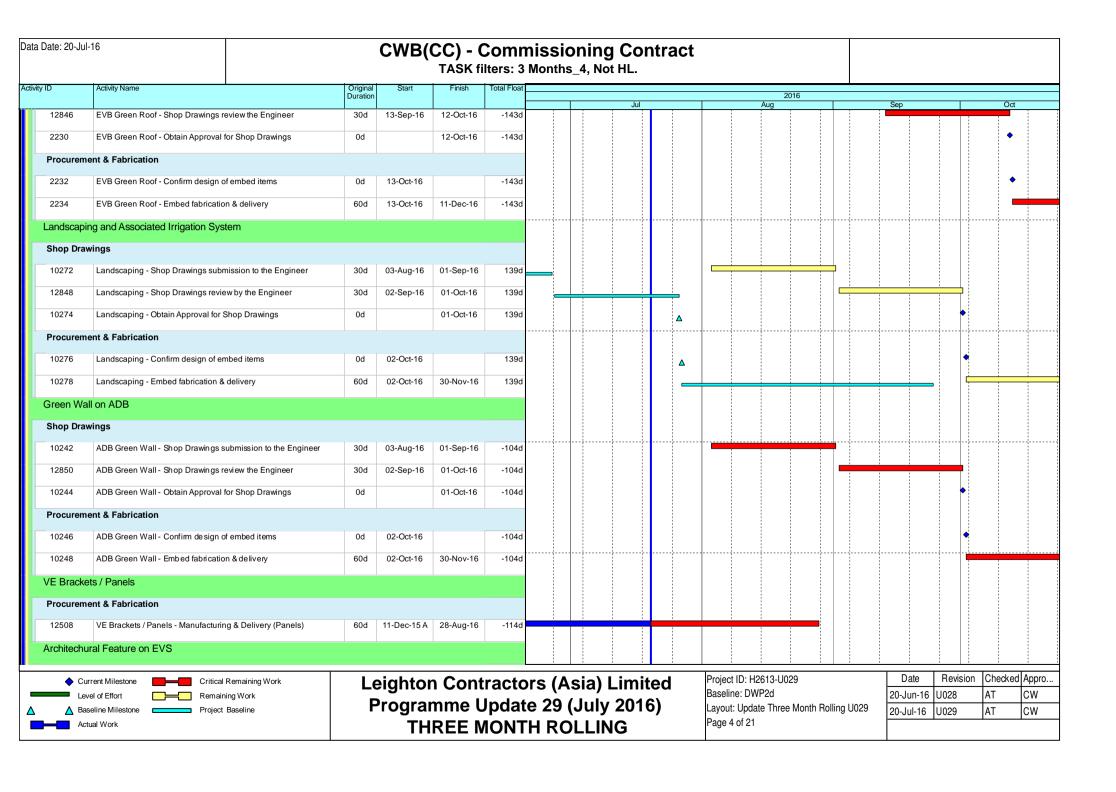
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Baseline: DCP7-2c
Layout: Update Three Month Rolling U071
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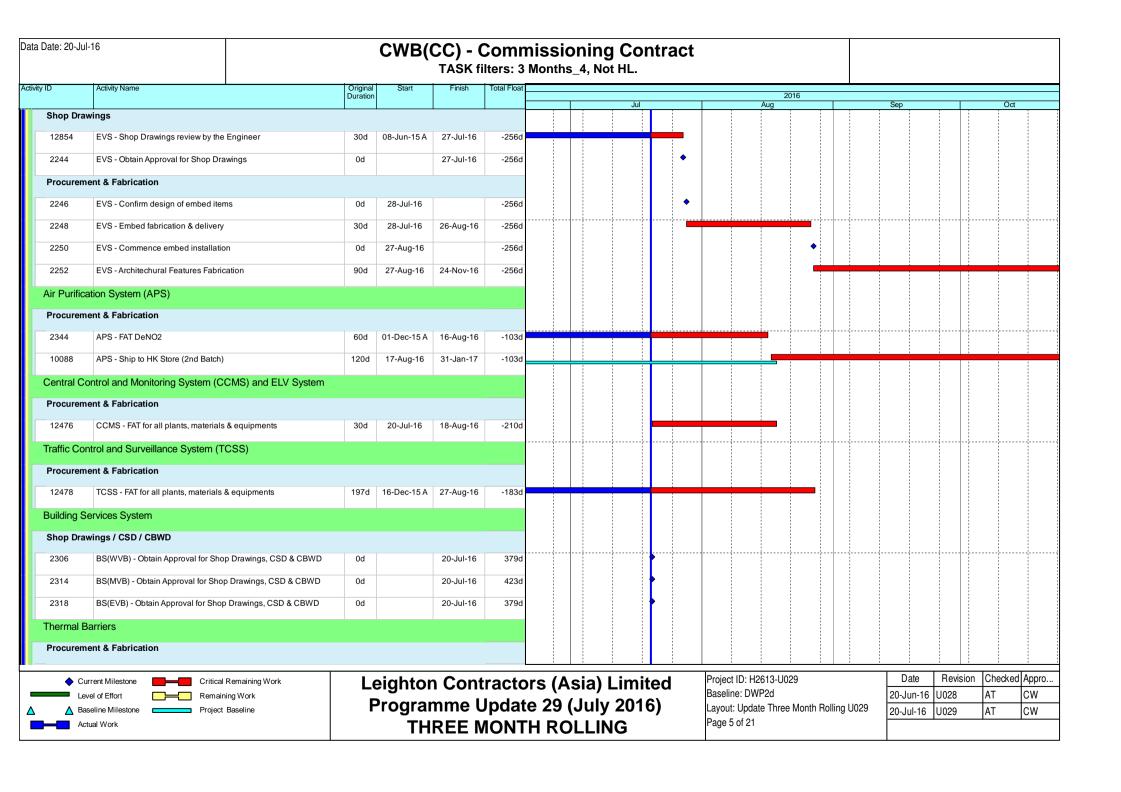
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	20-Jul-16	U070	AT	AL
	20-Aug-16	U071	AT	PT

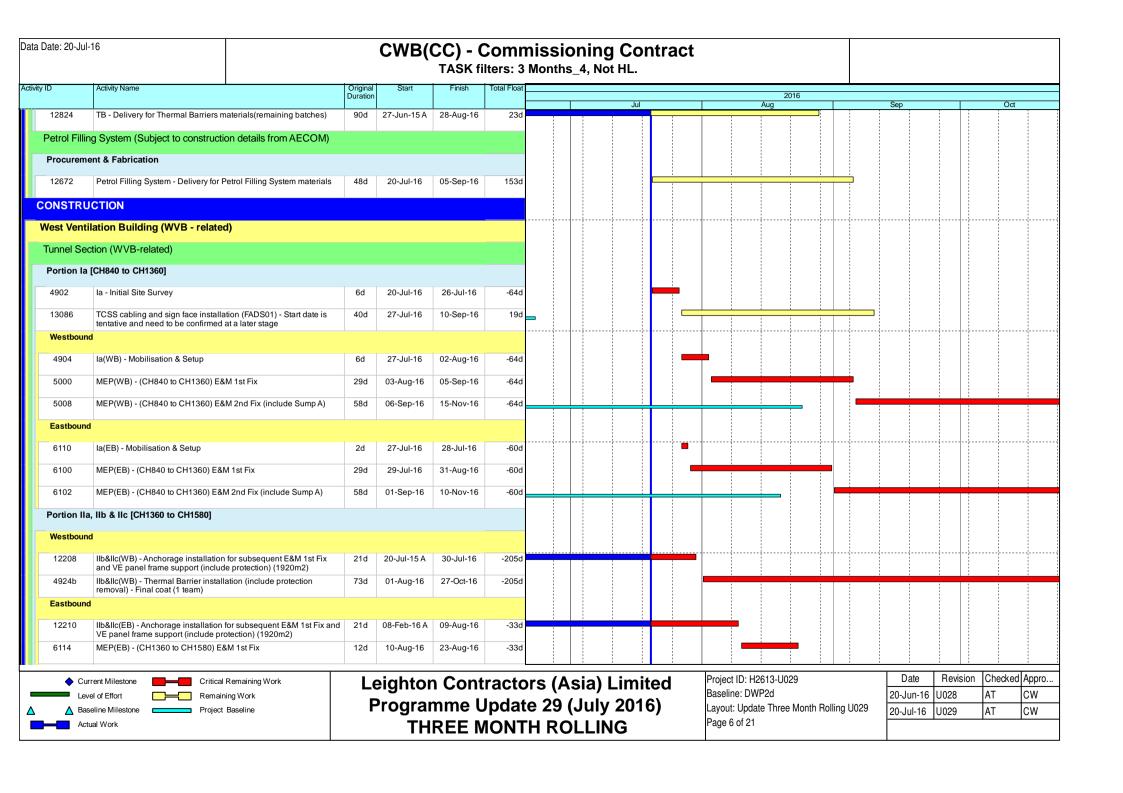


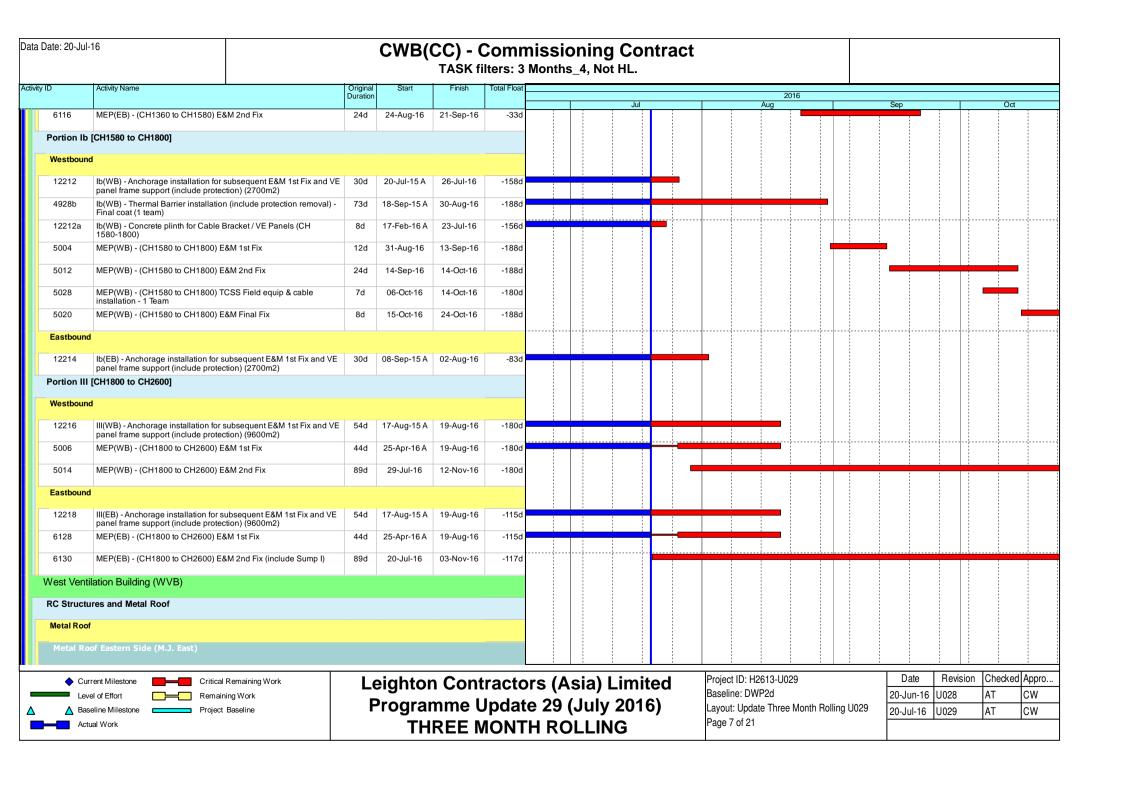


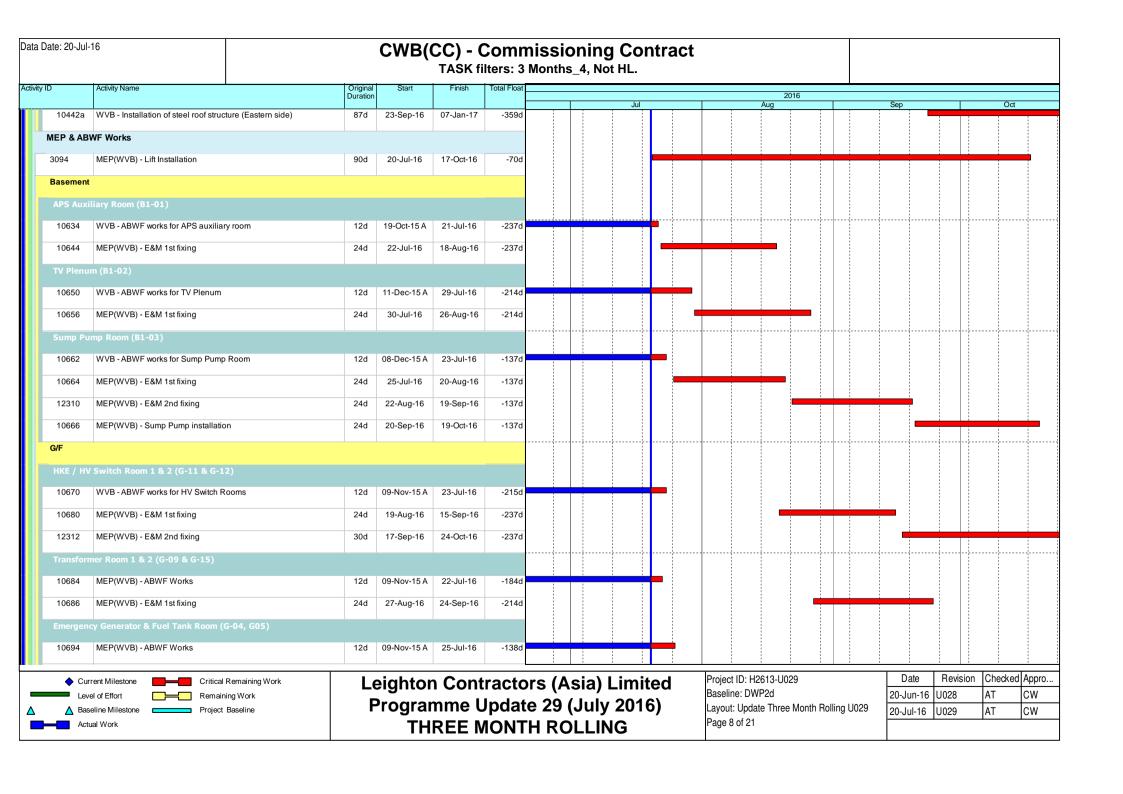


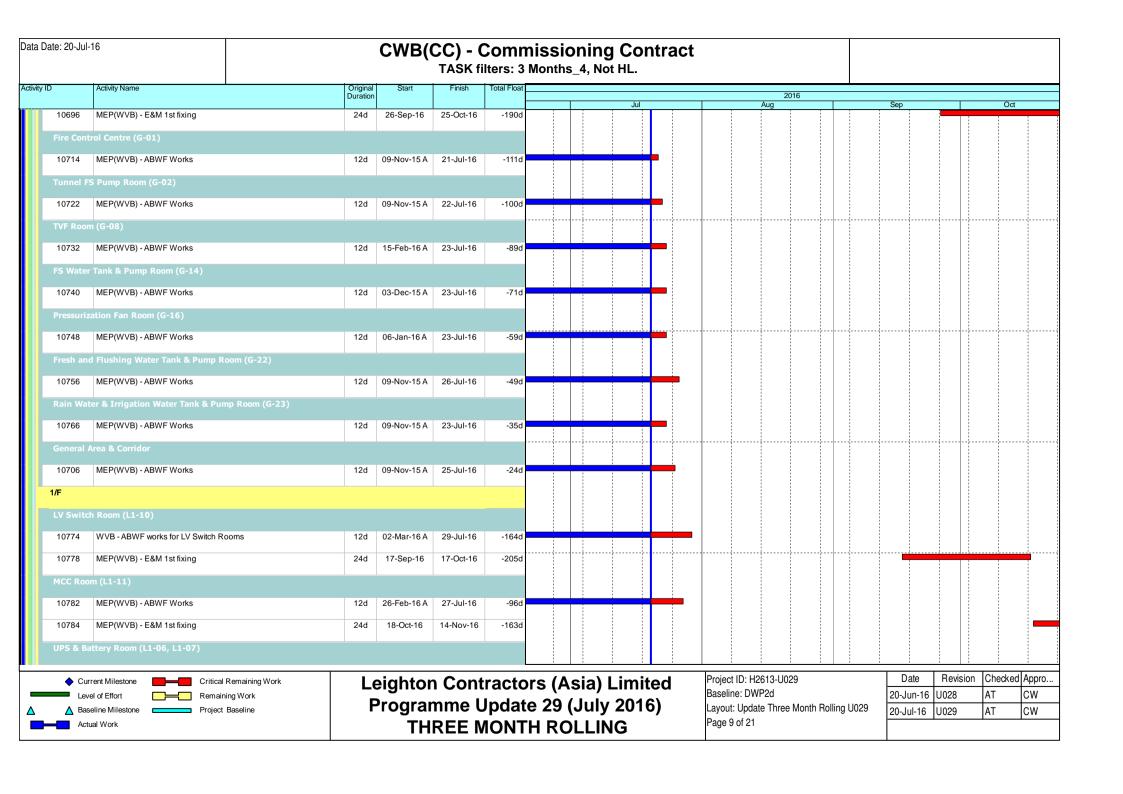


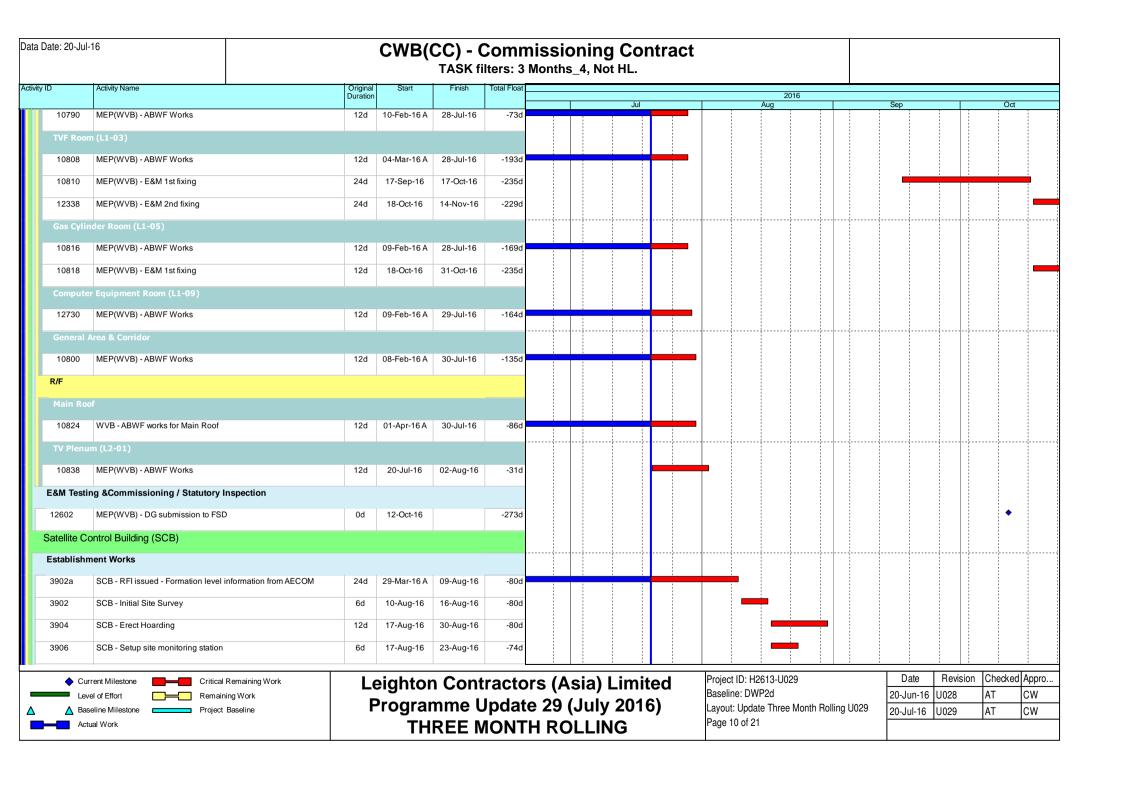


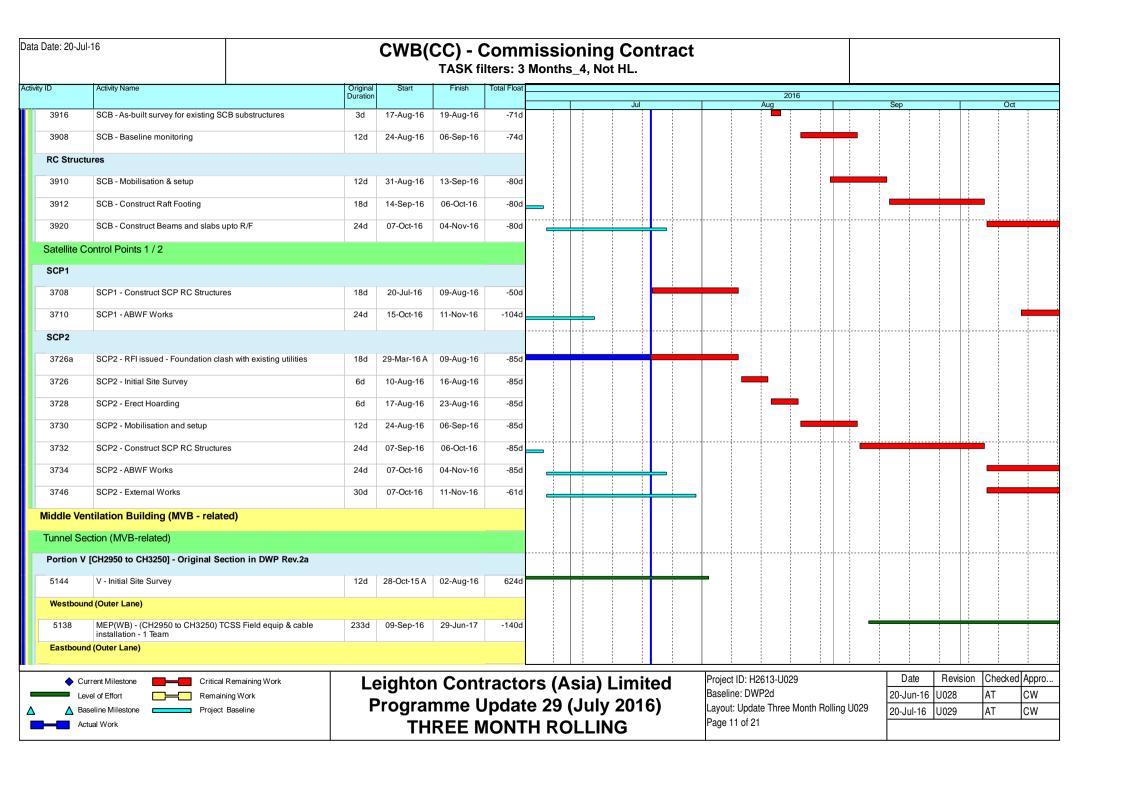


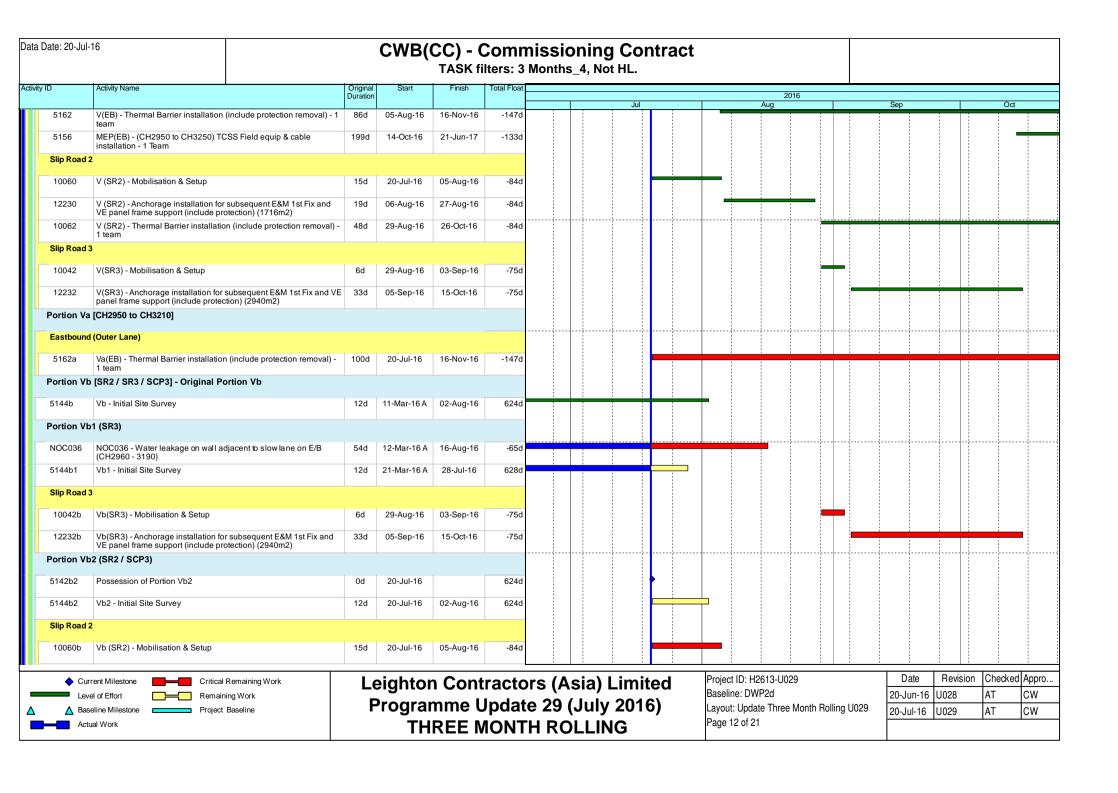


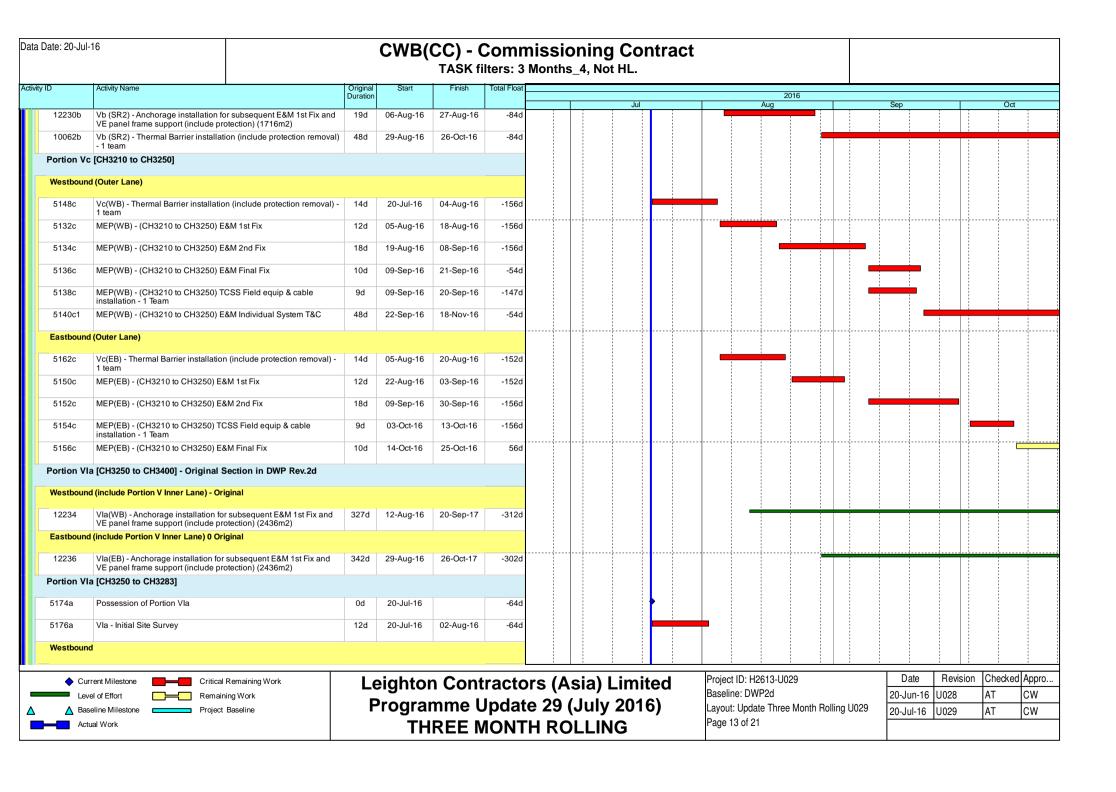




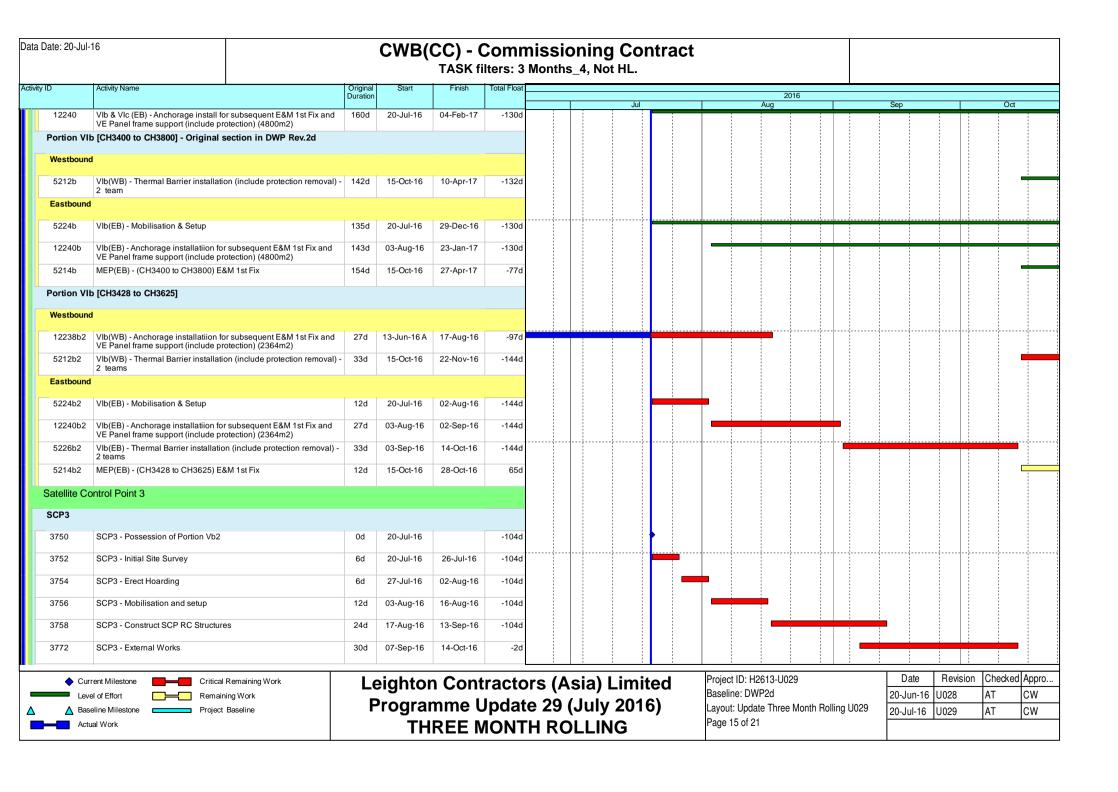


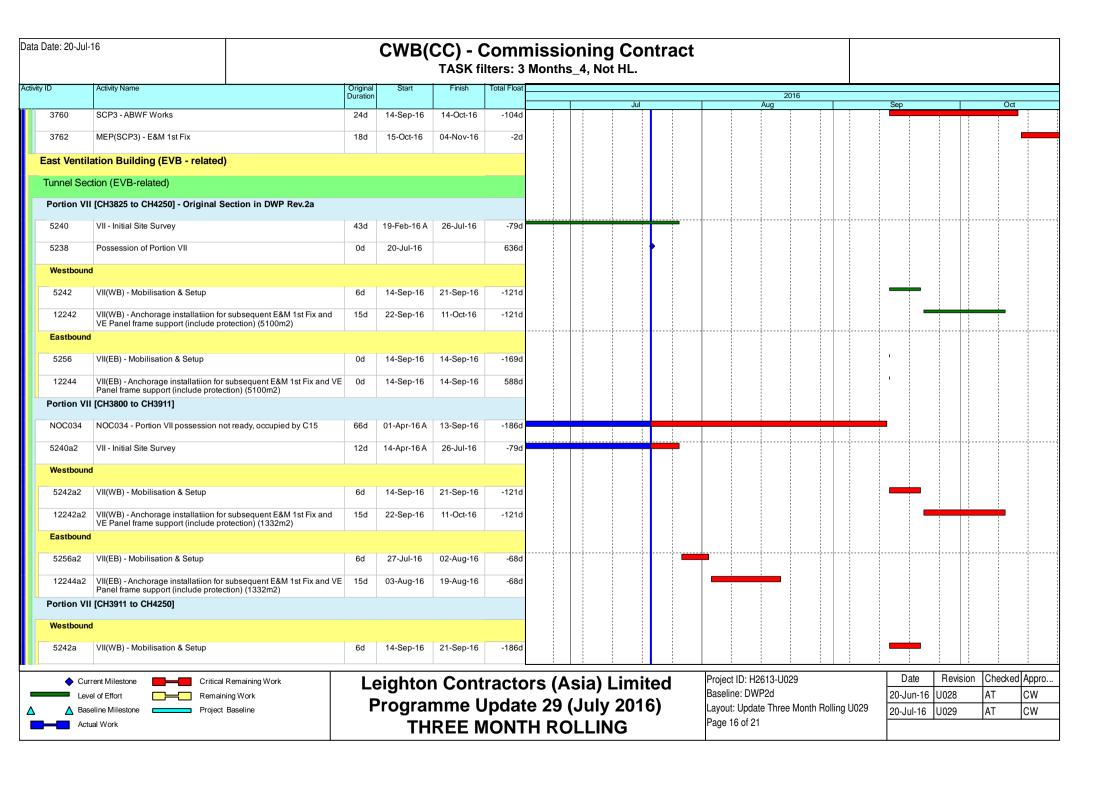


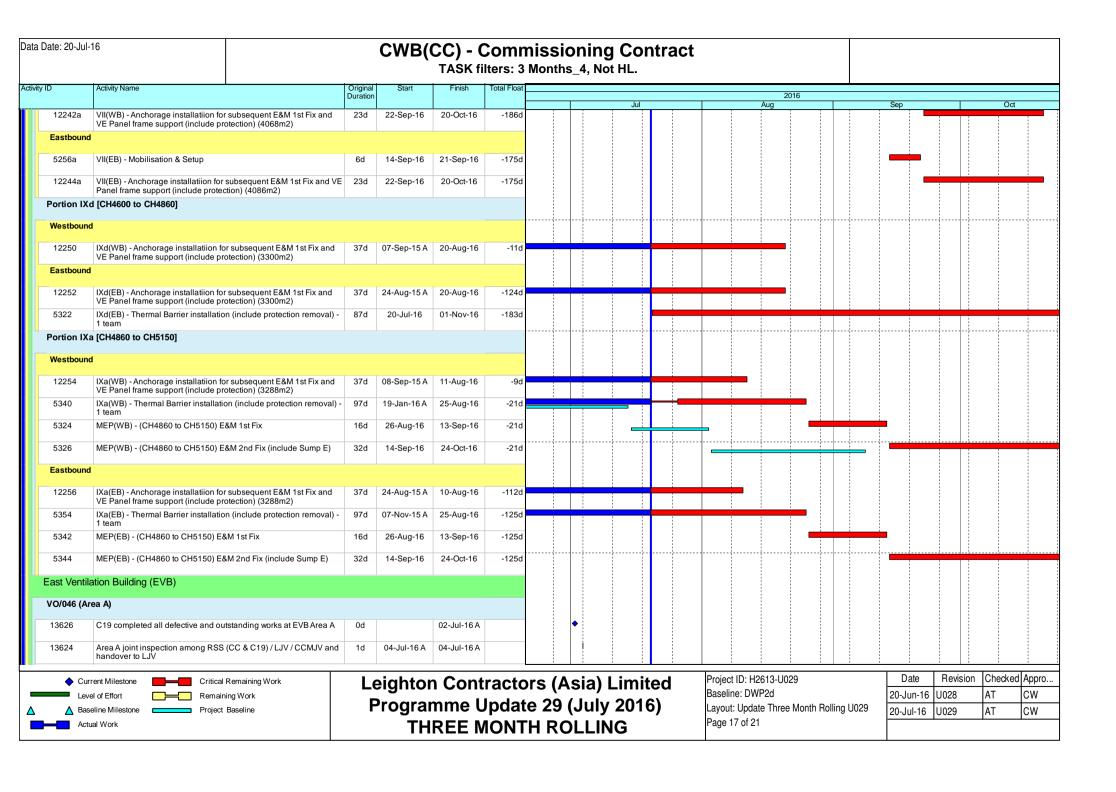


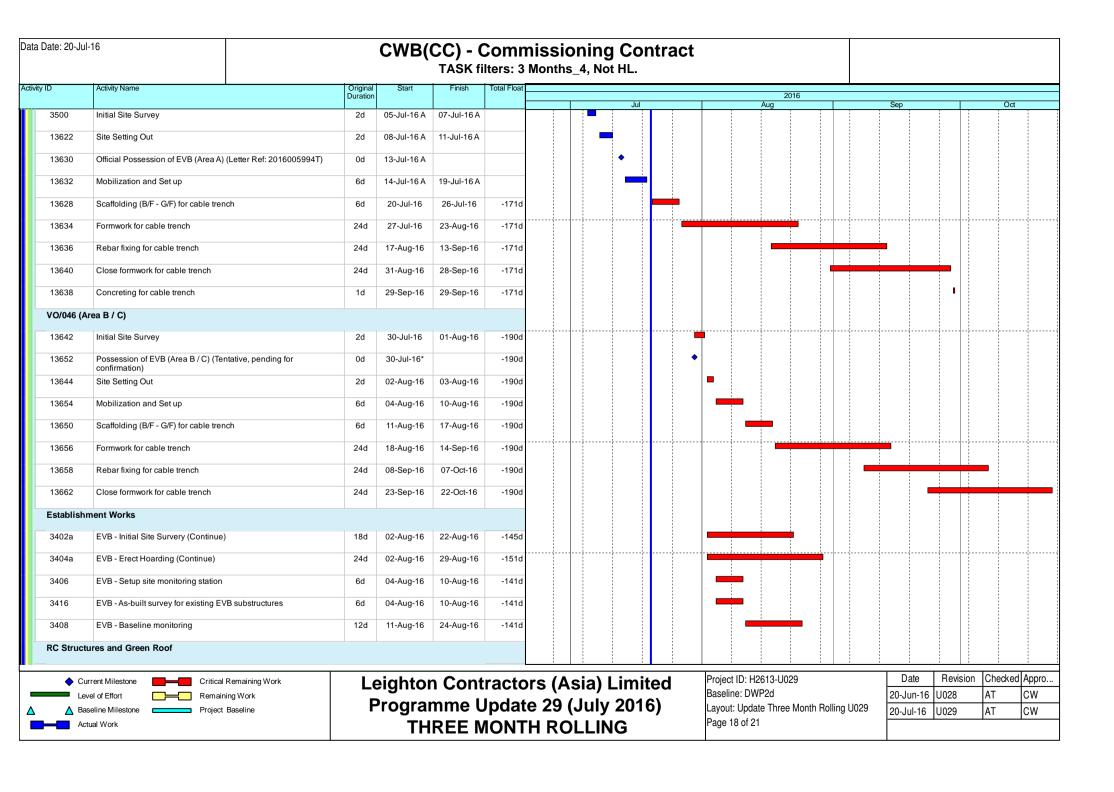


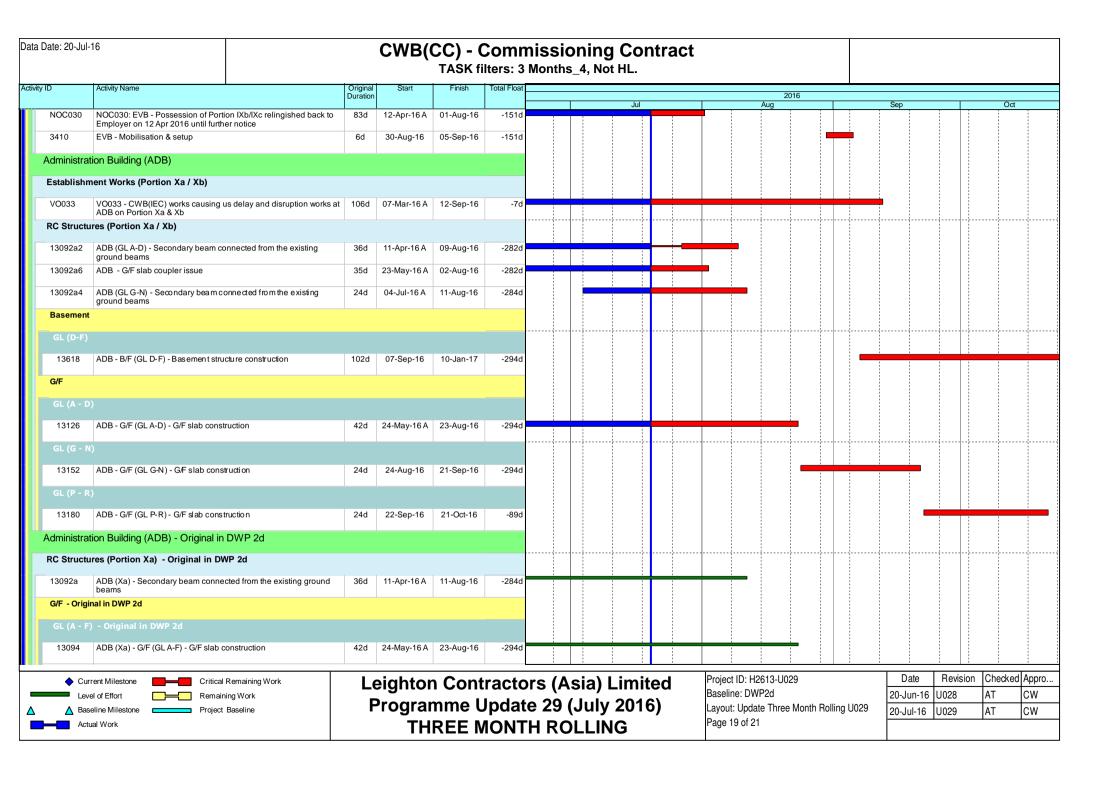
Data Date: 20-Jul-16 **CWB(CC) - Commissioning Contract** TASK filters: 3 Months 4, Not HL. Activity ID Activity Name Original Duration Start Finish Total Float 2016 Aug 5178a VIa(WB) - Mobilisation & Setup 03-Aug-16 11-Aug-16 -64d 12234a VIa(WB) - Anchorage installation for subsequent E&M 1st Fix and 12-Aug-16 18-Aug-16 -64d VE panel frame support (include protection) (528m2) Eastbound 5192a VIa(EB) - Mobilisation & Setup 19-Aug-16 27-Aug-16 -56d VIa(EB) - Anchorage installation for subsequent E&M 1st Fix and 12236a 29-Aug-16 03-Sep-16 -56d VE panel frame support (include protection) (528m2) Portion VIb & VIc [CH3400 to CH3800] - Original Section in DWP Rev.2a Westbound MEP(WB) - (CH3400 to CH3800) E&M 1st Fix 23-May-17 5196 246d 20-Jul-16 -140d 5198 MEP(WB) - (CH3400 to CH3800) E&M 2nd Fix 251d 20-Jul-16 29-May-17 -140d 5200 MEP(WB) - (CH3400 to CH3800) E&M Final Fix 277d 20-Jul-16 29-Jun-17 -104d MEP(WB) - (CH3400 to CH3800) TCSS Field equip & cable 20-Jul-16 -104d 5202 265d 15-Jun-17 installation - 1 Team 5204 MEP(WB) - (CH3400 to CH3800) E&M Individual System T&C 289d 20-Jul-16 14-Jul-17 -104d 5210 VIb & VIc (WB) - Mobilisation & Setup 155d 20-Jul-16 23-Jan-17 -112d VIb & VIc (WB) - Thermal Barrier installation (include protection 240d 20-Jul-16 16-May-17 -187d 5212 MEP(WB) - (CH3400 to CH3800) VE Panel installation (4800m2) 9962 20-Jul-16 28-Aug-17 -90d 12238 VIb & VIc (WB) - Anchorage install for subsequent E&M 1st Fix and 160d 20-Jul-16 04-Feb-17 -112d VE Panel frame support (include protection) (4800m2) Eastbound 5214 MEP(EB) - (CH3400 to CH3800) E&M 1st Fix 20-Jul-16 17-May-17 -104d 5216 MEP(EB) - (CH3400 to CH3800) E&M 2nd Fix 246d 20-Jul-16 23-May-17 -97d MEP(EB) - (CH3400 to CH3800) E&M Final Fix 5218 265d 20-Jul-16 15-Jun-17 -92d MEP(EB) - (CH3400 to CH3800) TCSS Field equip & cable 20-Jul-16 5220 253d 01-Jun-17 -104d installation - 1 Team MEP(EB) - (CH3400 to CH3800) E&M Individual System T&C 5222 277d 20-Jul-16 29-Jun-17 -92d 5224 VIb & VIc (EB) - Mobilisation & Setup 155d 20-Jul-16 23-Jan-17 -130d 5226 VIb & VIc (EB) - Thermal Barrier installation (include protection 235d 20-Jul-16 10-May-17 -200d removal) - 2 team MEP(EB) - (CH3400 to CH3800) VE Panel installation (4800m2) - 1 20-Jul-16 06-Jul-17 -45d Project ID: H2613-U029 Date Revision Checked Appro... **Leighton Contractors (Asia) Limited** Current Milestone Critical Remaining Work Baseline: DWP2d 20-Jun-16 U028 CW Programme Update 29 (July 2016) Layout: Update Three Month Rolling U029 Baseline Milestone U029 Iat lcw Project Baseline 20-Jul-16 Page 14 of 21 THREE MONTH ROLLING Actual Work

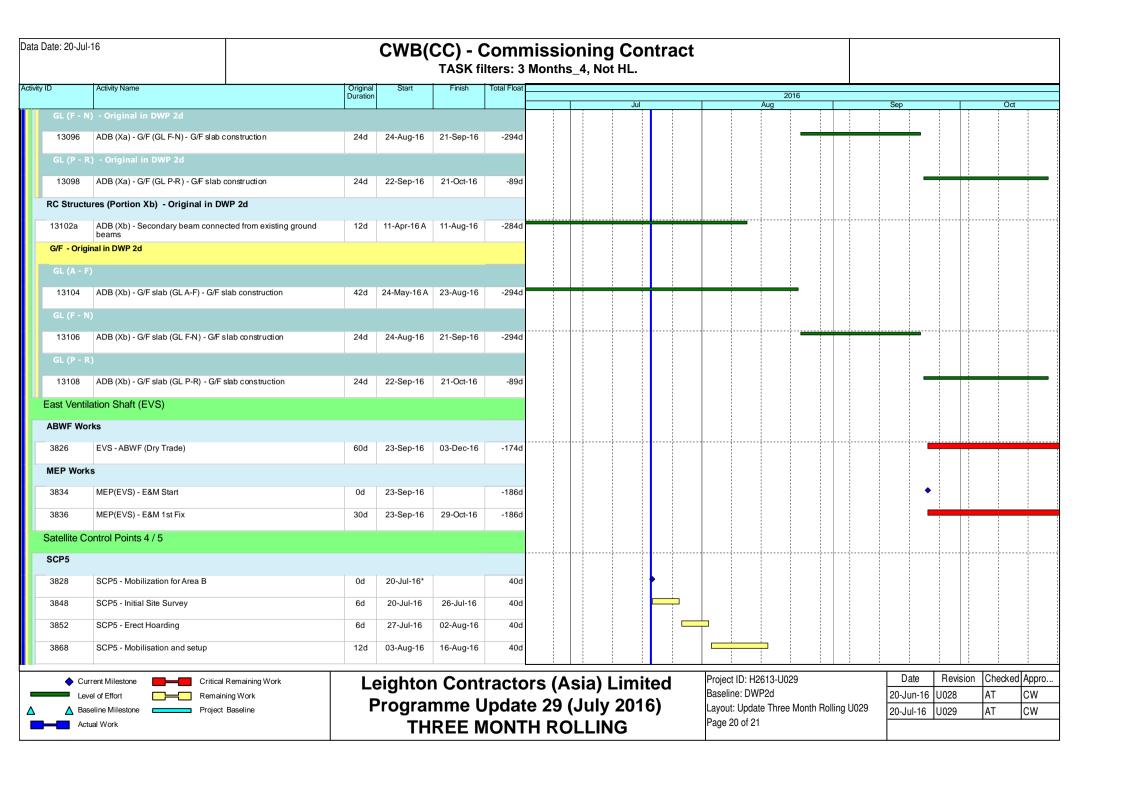




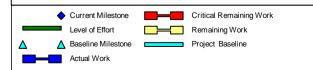








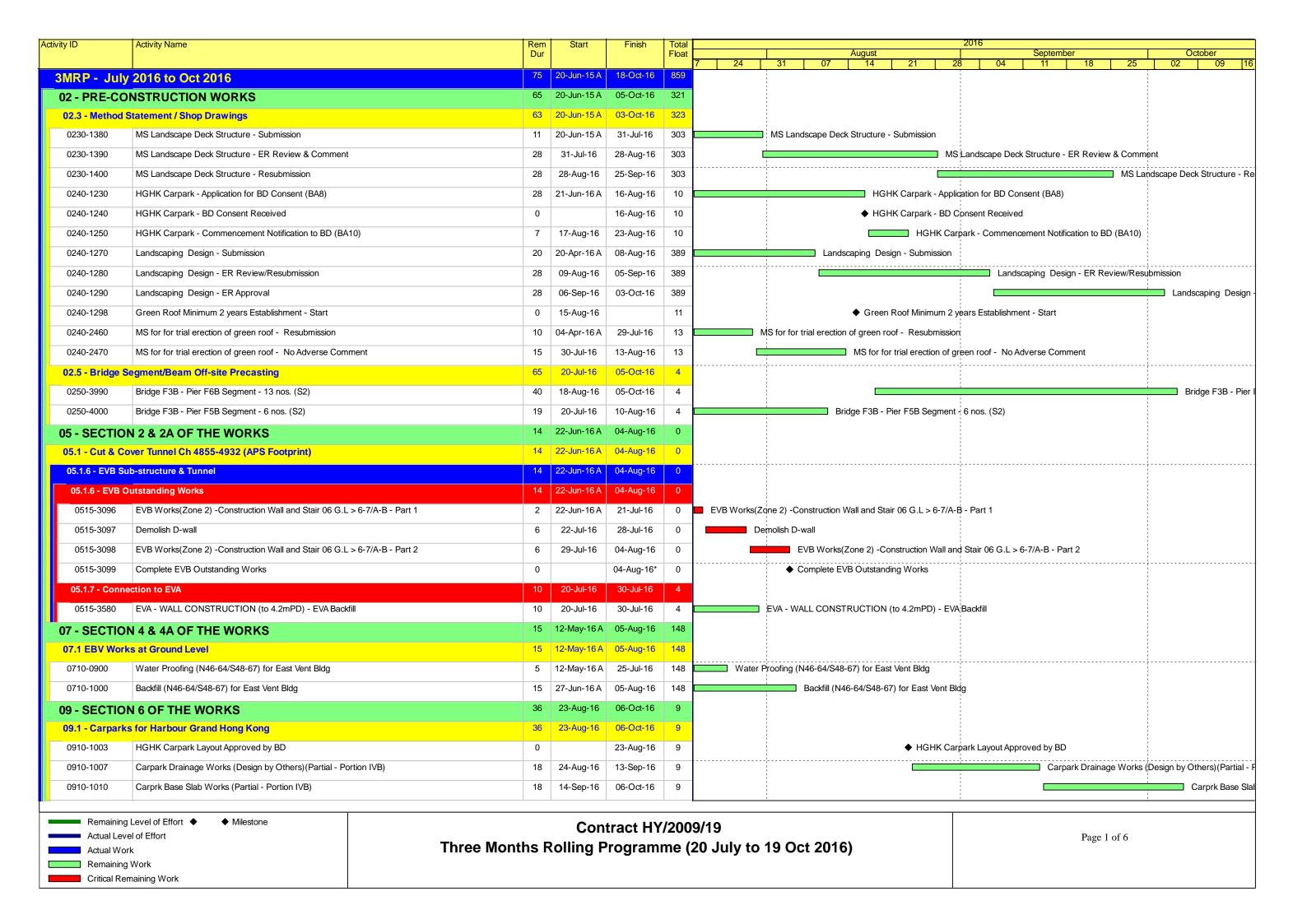
**CWB(CC) - Commissioning Contract** Data Date: 20-Jul-16 TASK filters: 3 Months\_4, Not HL. Activity ID Activity Name Original Duration Start Finish Total Float 2016 SCP5 - Construct SCP RC Structures 3870 17-Aug-16 13-Sep-16 40d 3872 SCP5 - ABWF Works 14-Sep-16 14-Oct-16 46d 3886 SCP5 - External Works 21-Oct-16 40d 30d 14-Sep-16 **External Works** Area A/B 10288a1 Area A TCSS equipment installation and cabling (Gantry FVMS 1) -40d 20-Jul-16 03-Sep-16 87d After C18 gantry installation complete 10288a2 Area A TCSS equipment installation and cabling (Gantry ADS01) -40d 20-Jul-16 03-Sep-16 87d Start date is tentative and to be confirmed 10288CI1 C18 gantry installation complete (FVMS 1) 0d 20-Jul-16\* -55d 10288CI2 C18 gantry installation complete (ADS01) 0d 20-Jul-16\* -4d

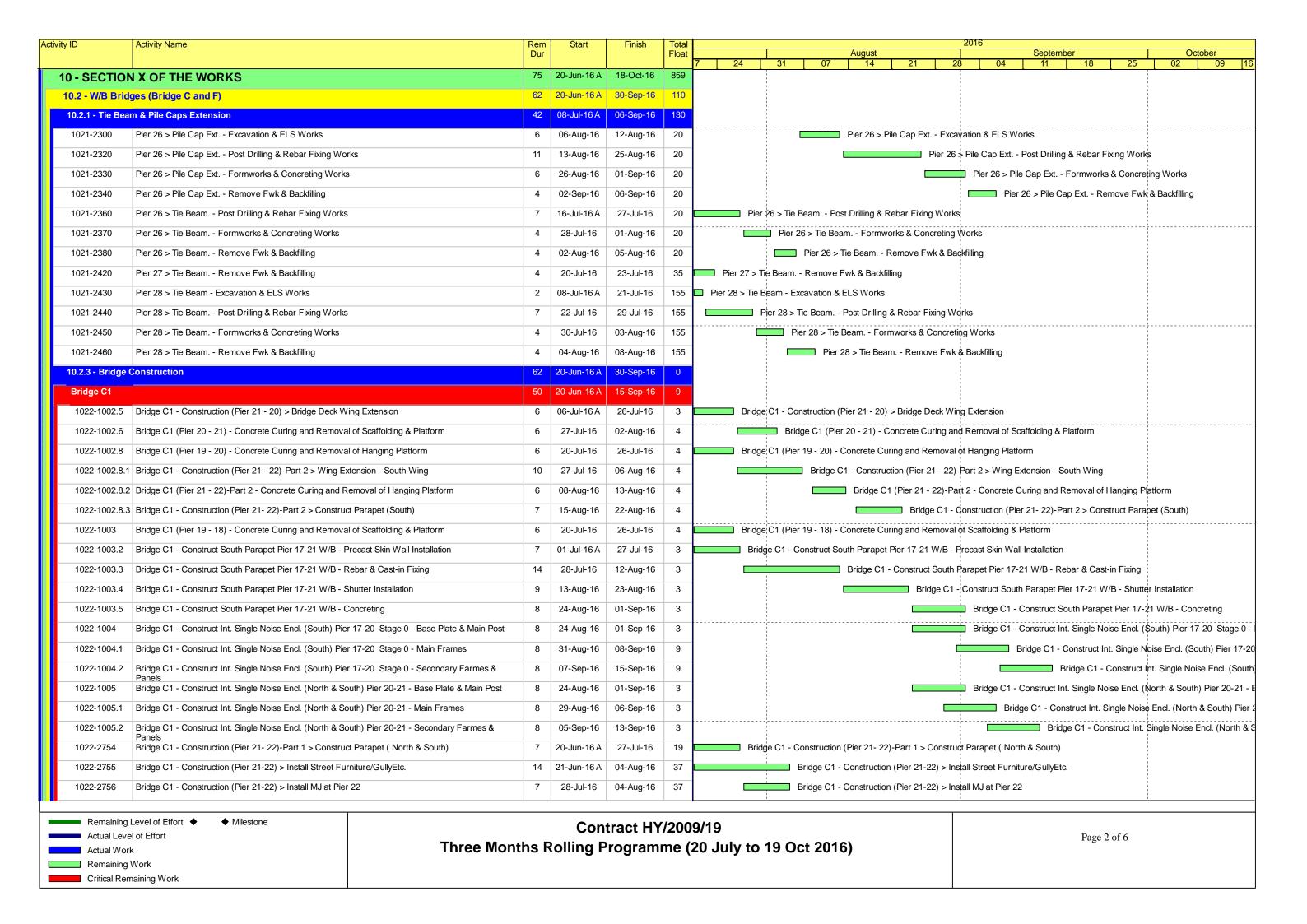


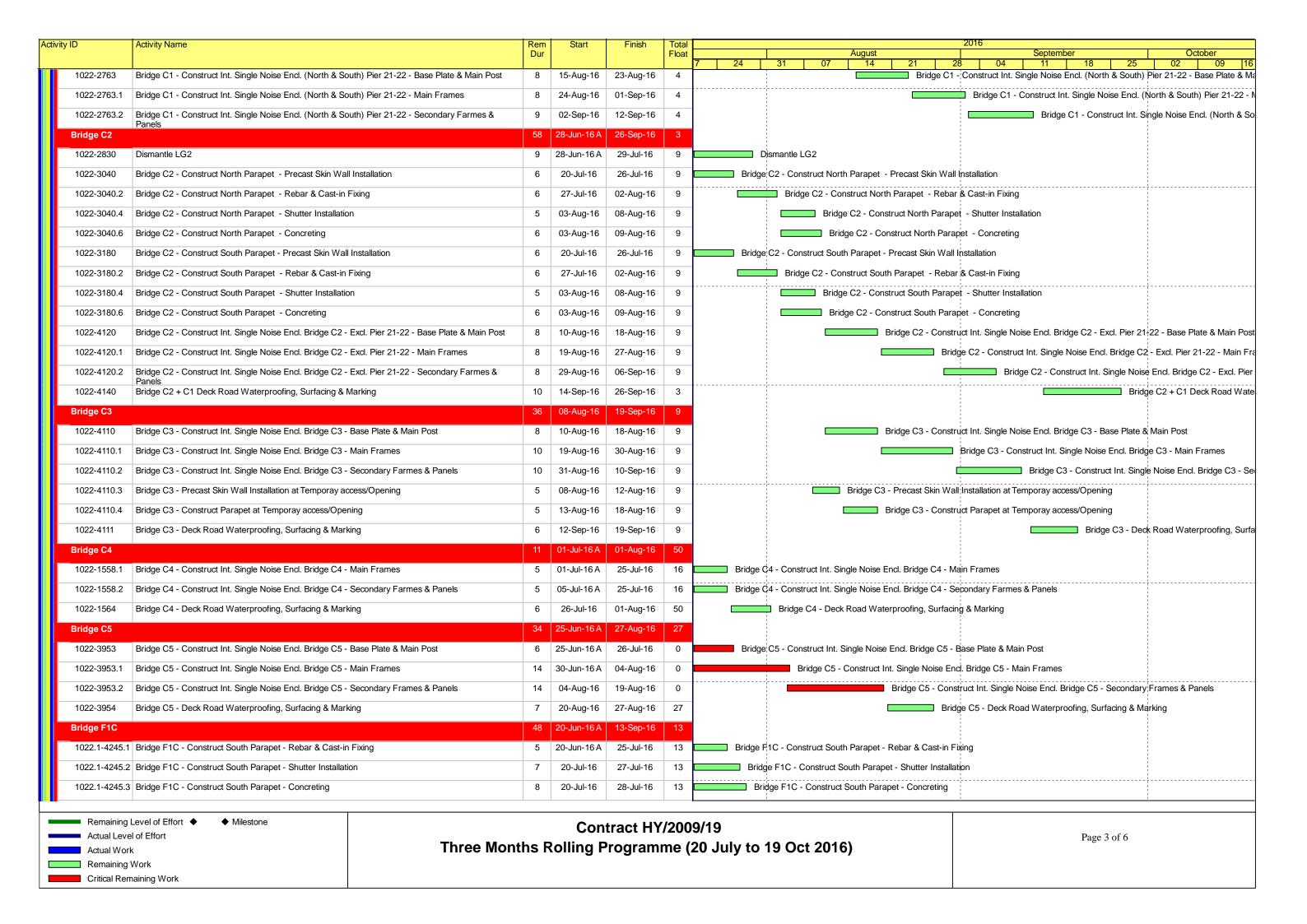
Leighton Contractors (Asia) Limited Programme Update 29 (July 2016) THREE MONTH ROLLING

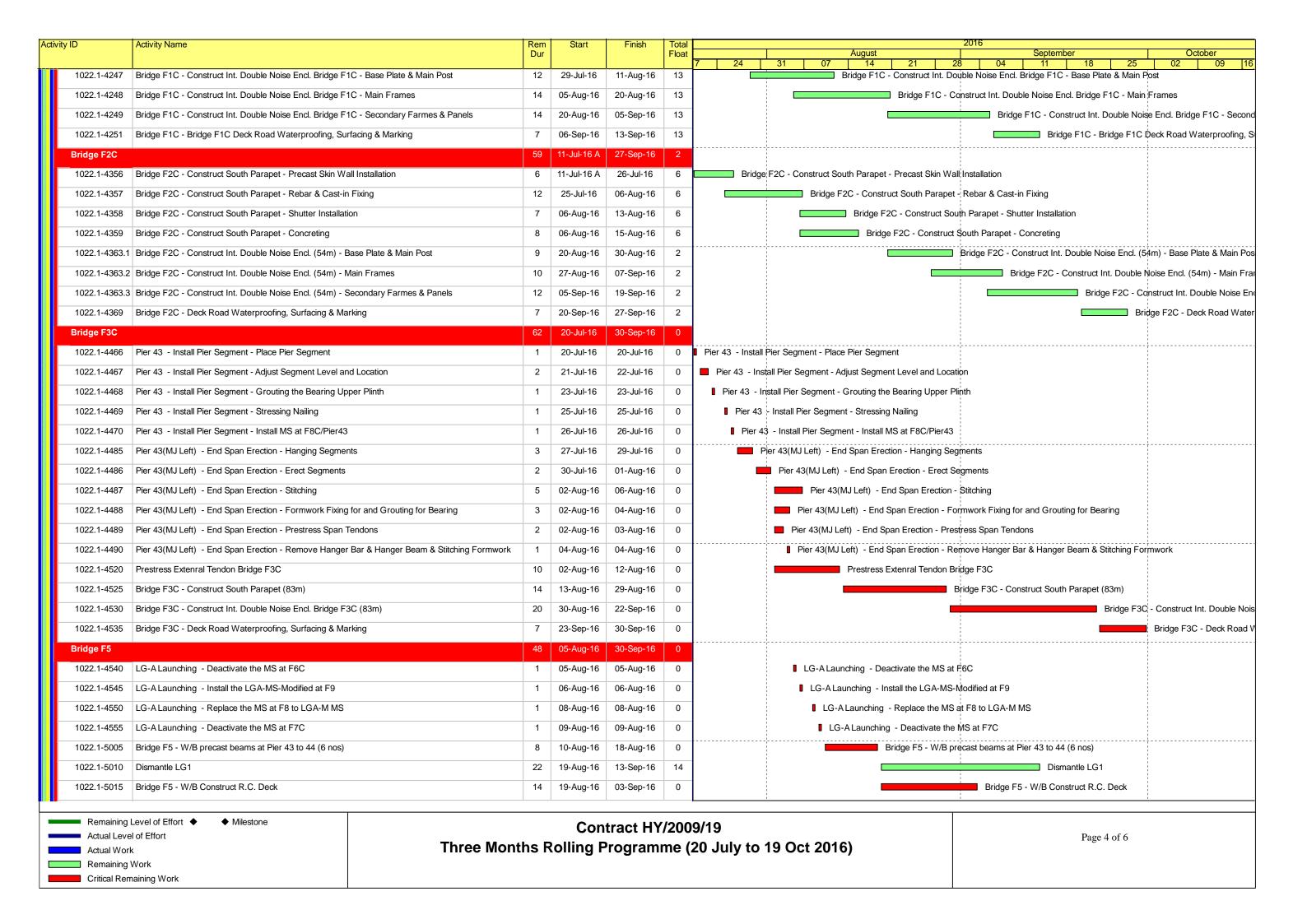
Project ID: H2613-U029							
Baseline: DWP2d							
Layout: Update Three Month Rolling U029							
Page 21 of 21							

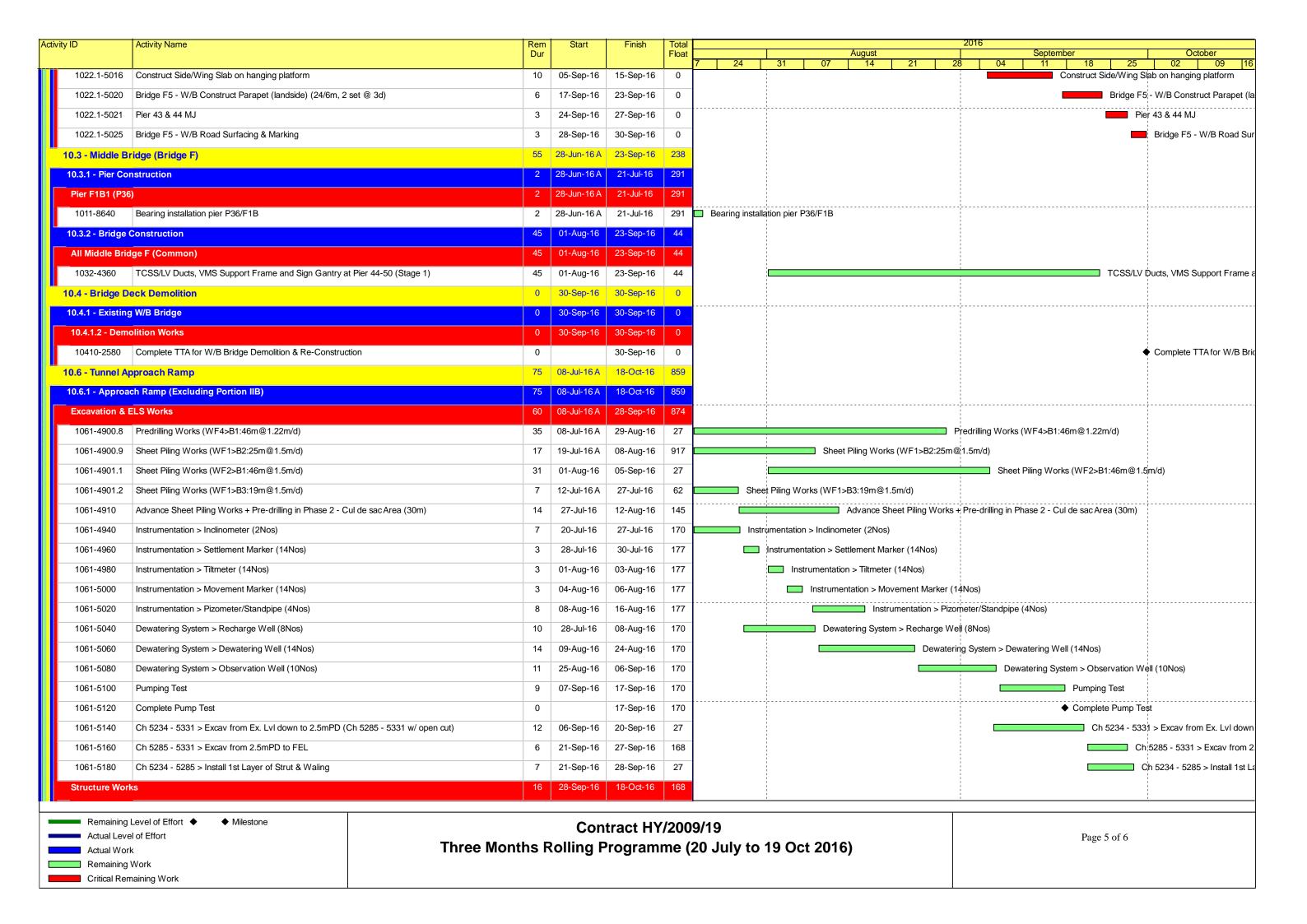
Date	Revision	Checked	Appro
20-Jun-16	U028	AT	CW
20-Jul-16	U029	AT	CW

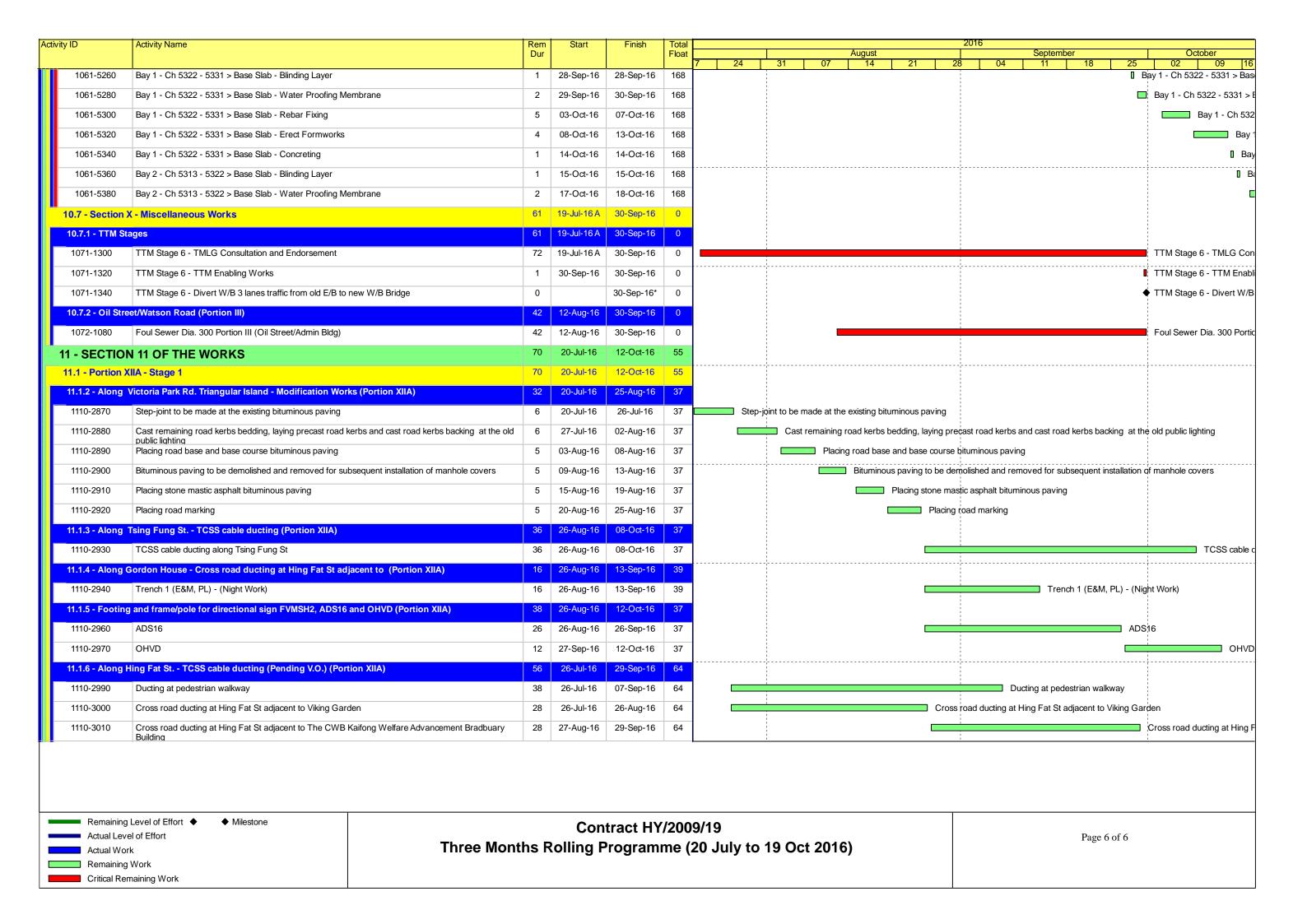


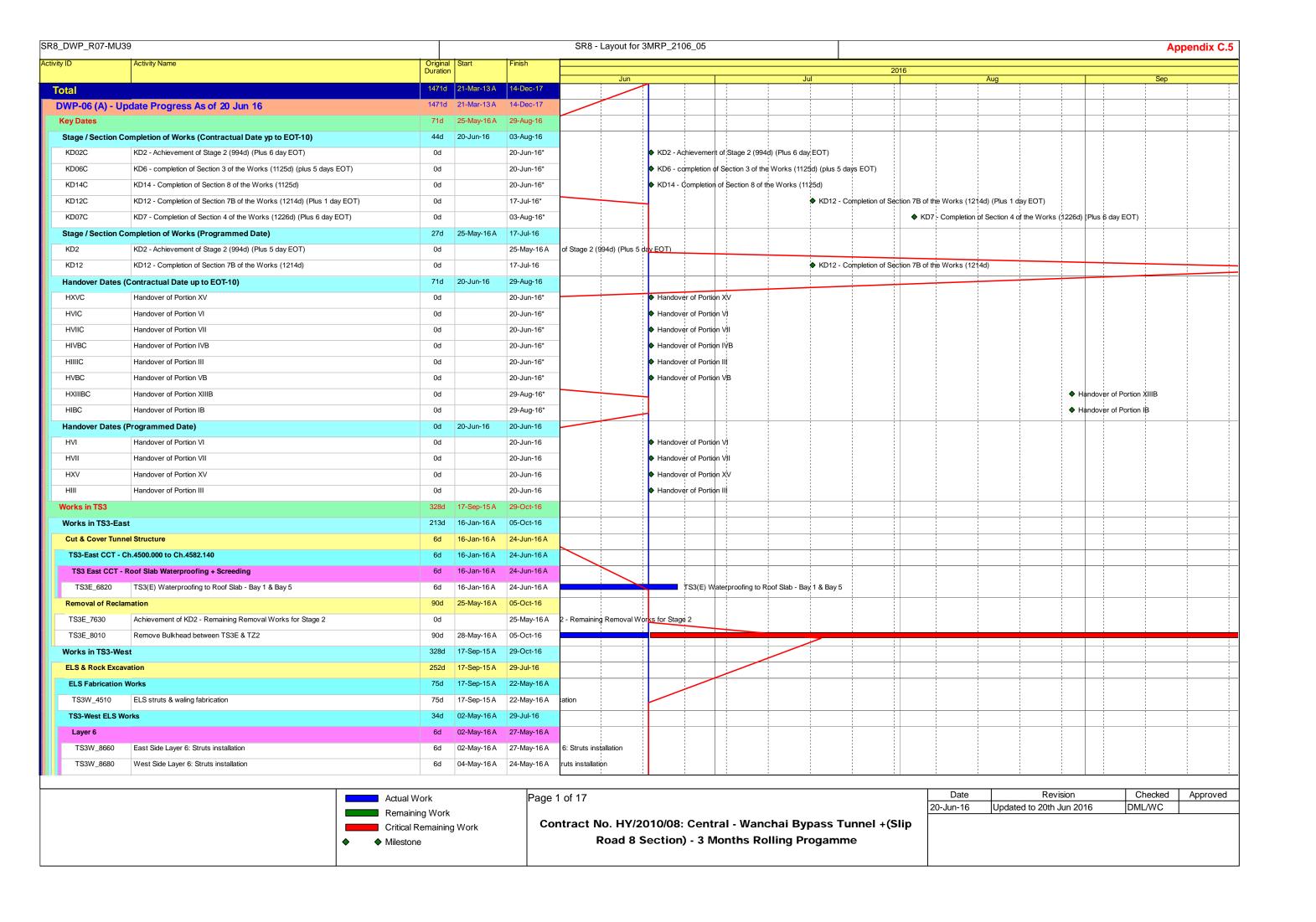


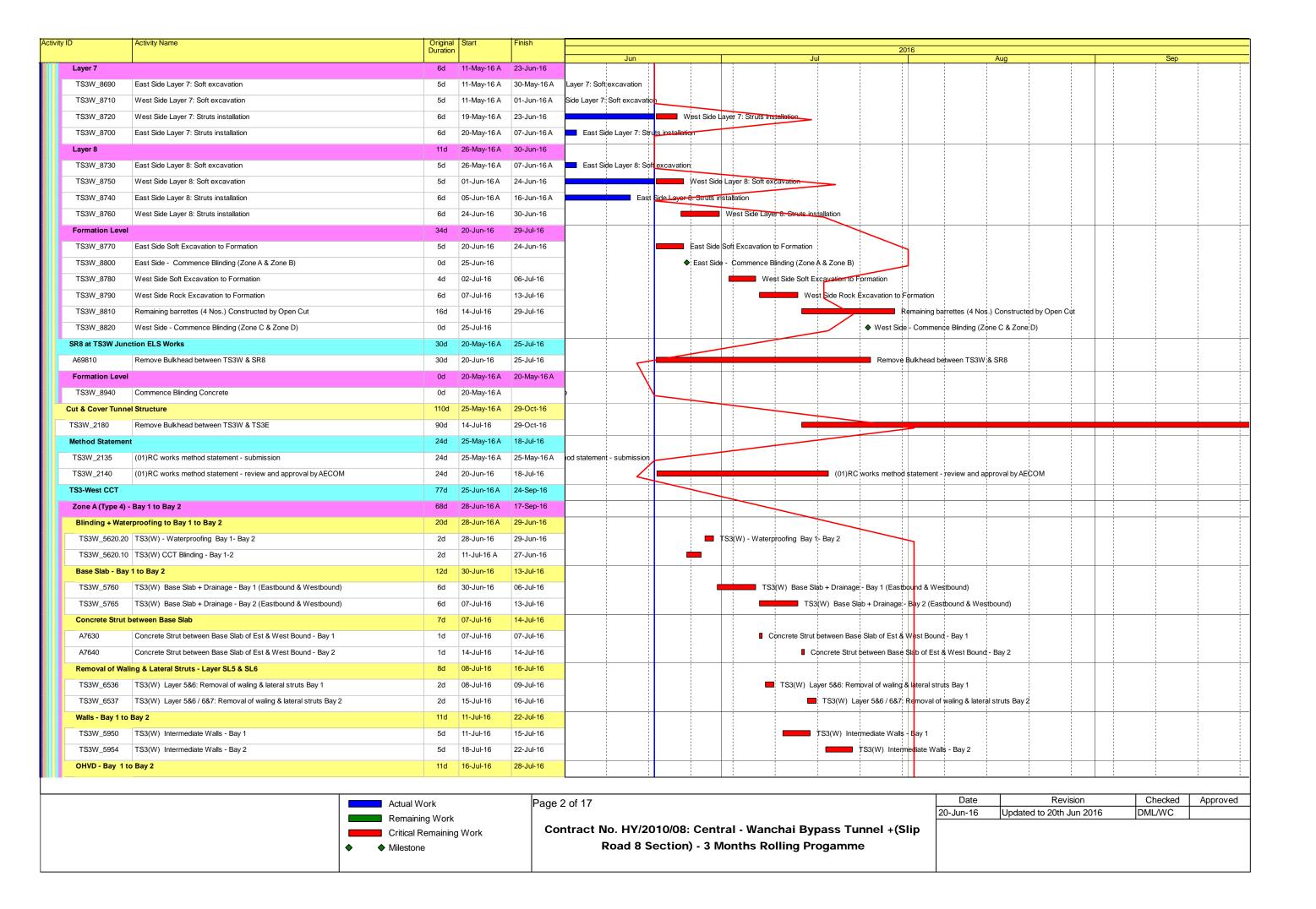


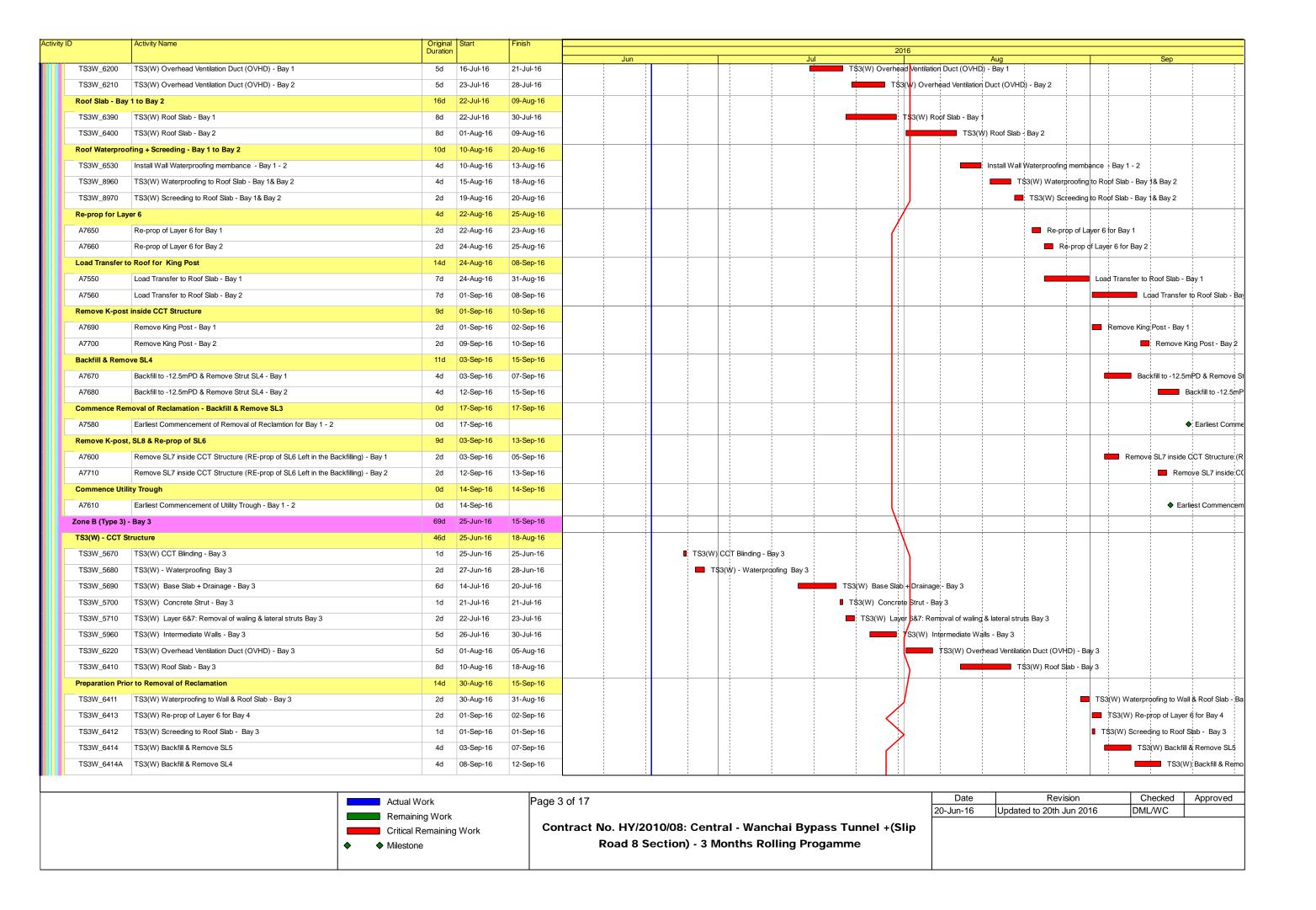




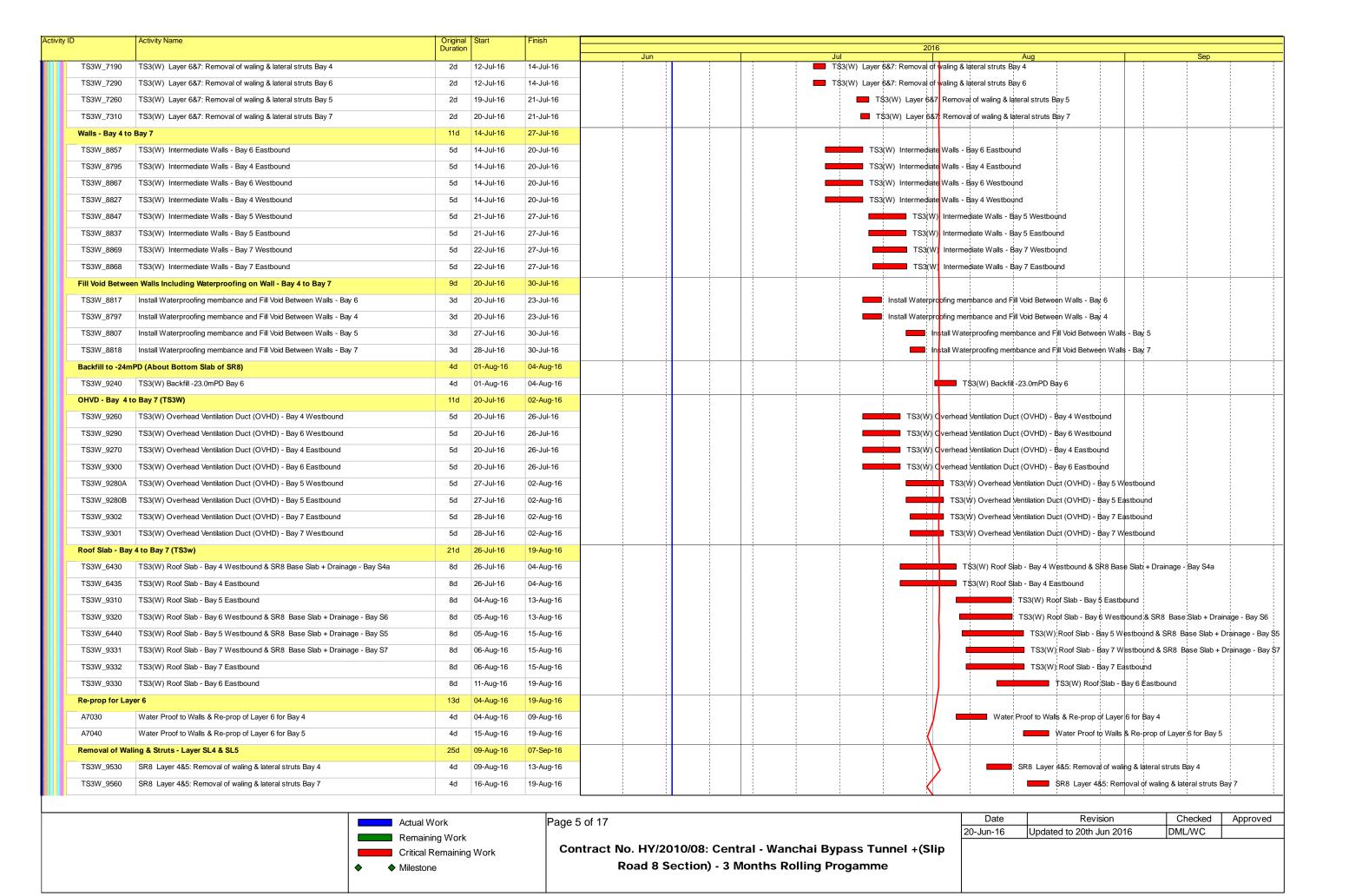


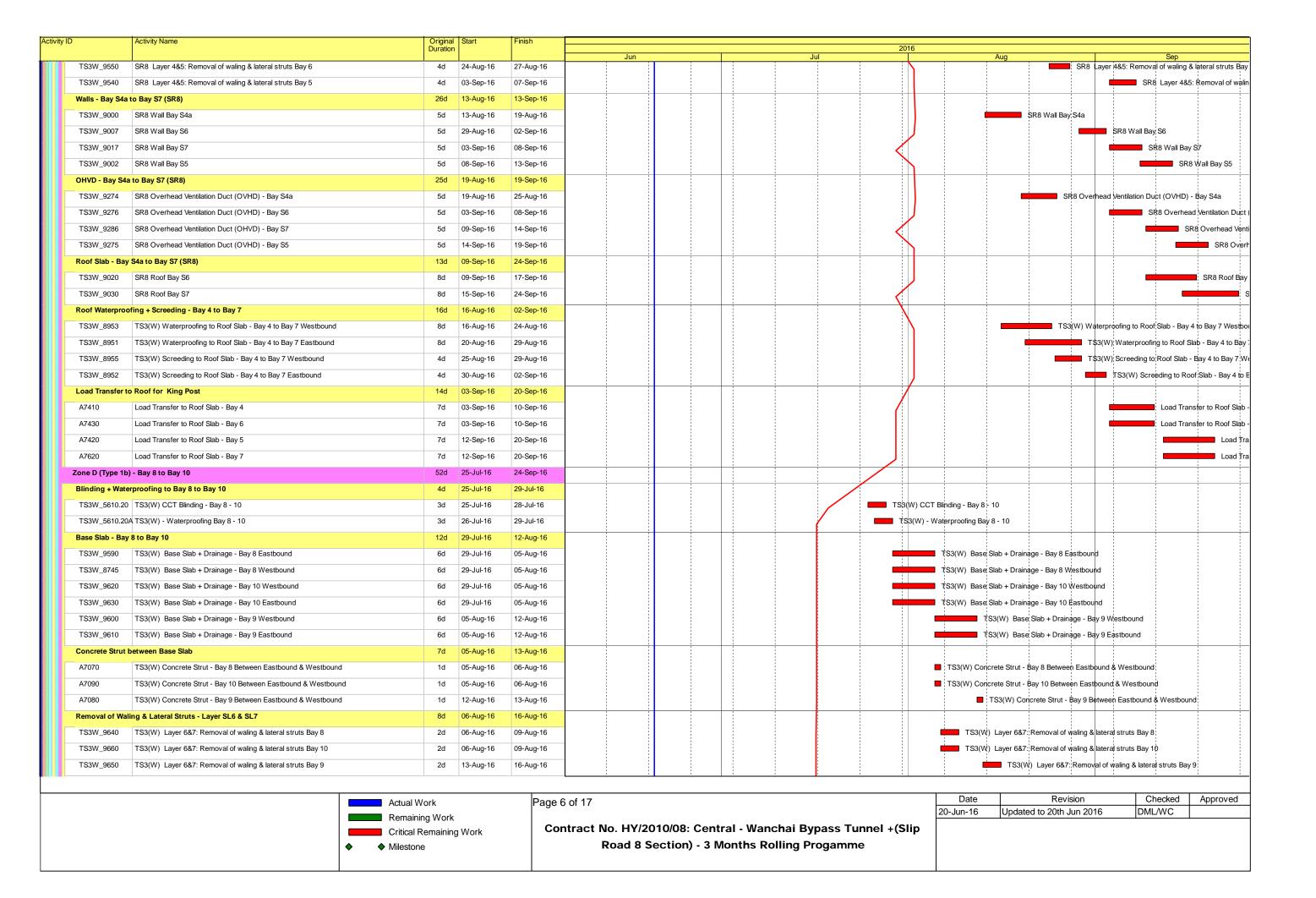




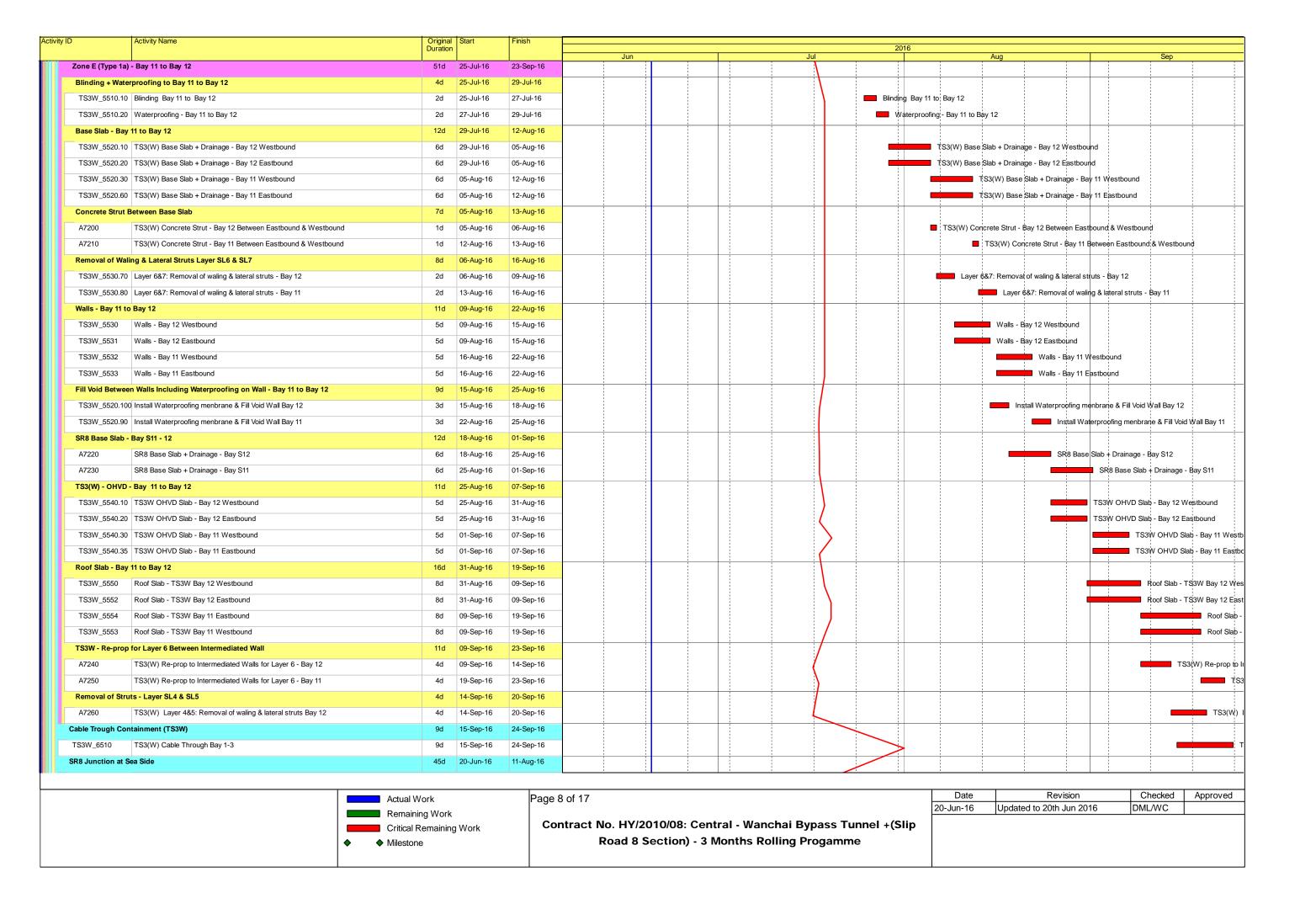


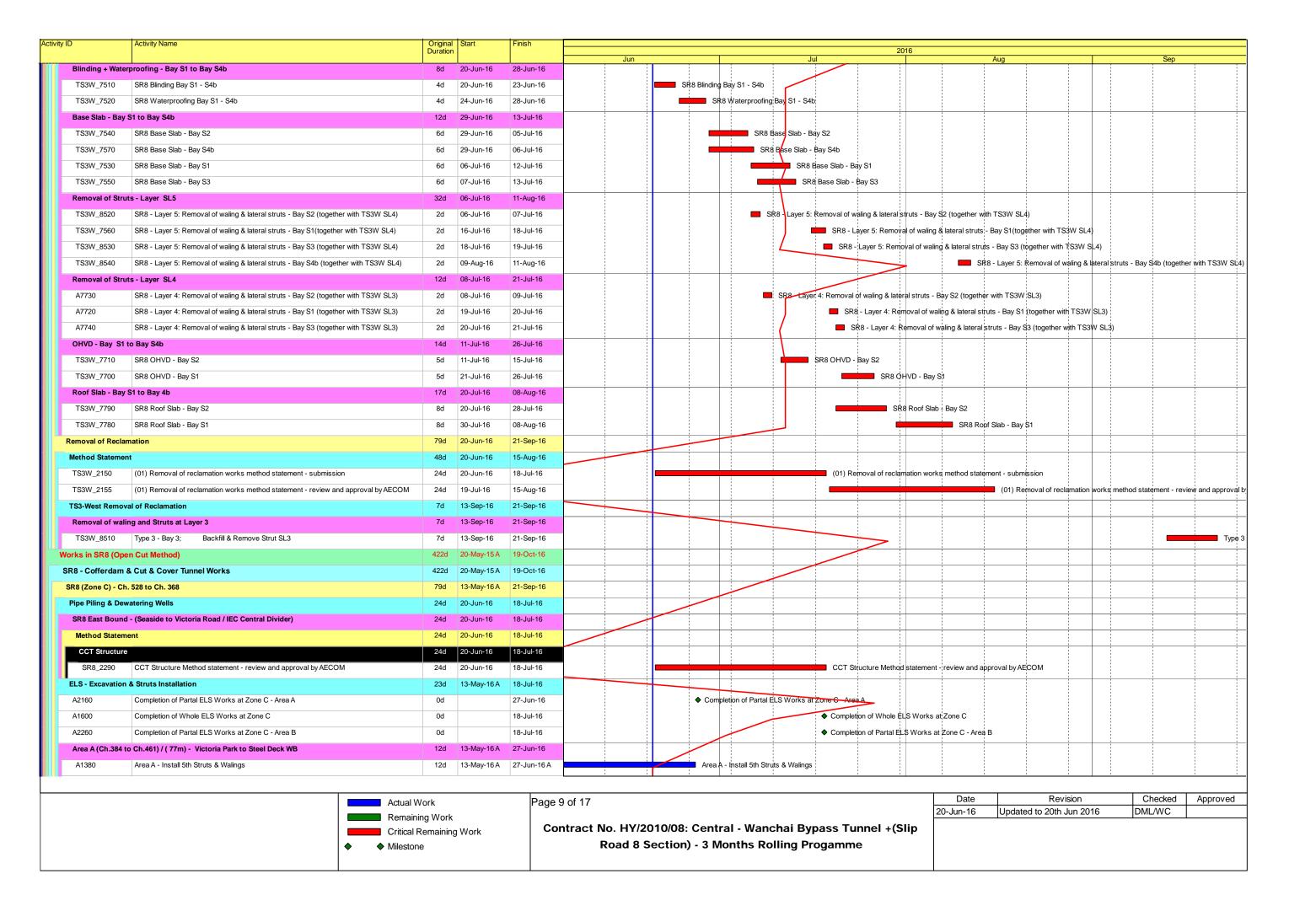
D	Activity Name	Original Start	Finish					0010				
		Duration		Jun		Jul		2016	Α	ug	Sep	
TS3W_6415	Earliest Commencement of Removal of Reclamtion for Bay 3	0d 13-Sep-16									♦ Ea	arliest Comme
TS3W_6416	Remove SL8 inside CCT Structure & Remove Re-prop SL6	2d 13-Sep-16	14-Sep-16								_	Remove SL8
TS3w_6417	Earliest Commencement of Utility Trough - Bay 3	0d 15-Sep-16									•	Earliest Cor
Cross Passage an	nd Egress Passage (CP31/EP02)	43d 01-Aug-16	19-Sep-16									
Cross Passage C	CP31	25d 01-Aug-16	29-Aug-16					\				
TS3W_7890	TS3(W) Cross Passage CP31 - Blinding + Waterproofing	4d 01-Aug-16	04-Aug-16					\ <u> </u>	T\$3(W) Cross Pas	sage CP31 - Blinding + Wat	erproofing	
TS3W_7900	TS3(W) Cross Passage CP31 - Base Slab + Drainage	5d 05-Aug-16	10-Aug-16						TS3(W)	Cross Passage CP31 - Ba	se Slab + Drainage	
TS3W_7910	TS3(W) Cross Passage CP31 - Walls	6d 11-Aug-16	17-Aug-16							TS3(W) Cross Passa	ge CP31 - Walls	
TS3W_7920	TS3(W) Cross Passage CP31 - Roof Slab	7d 18-Aug-16	25-Aug-16							T\$3(W	) Cross Passage CP31 - Roof	Slab
TS3W_7930	TS3(W) Cross Passage CP31 - Waterproofing Membrane + Screeding	3d 26-Aug-16	29-Aug-16								T\$3(W) Cross Passage CP31	- Waterprod
Egress Passage	EP-02	43d 01-Aug-16	19-Sep-16									
TS3W_7940	TS3(W) Egress Passage EP02 - Blinding + Waterproofing for Base Slab	4d 01-Aug-16	04-Aug-16						T\$3(W) Egress Pa	ssage EP02 - Blinding + Wa	terproofing for Base Slab	
Stair Well		33d 05-Aug-16	12-Sep-16									
TS3W_7950	TS3(W) Egress Passage EP02 Stairwell & Passage Gallery - Base Slab	5d 05-Aug-16	10-Aug-16						TS3(W)	Egress Passage EP02 Sta	rwell & Passage Gallery - Base	Slab
	TS3(W) Egress Passage EP02 Stairwell - Walls upto -21.32 mPD	5d 12-Aug-16	17-Aug-16	-							ge EP02 Stairwell - Walls upto	
	TS3(W) Egress Passage EP02 Stairwell - Floor Slab and Stair Case	6d 18-Aug-16	24-Aug-16	-							Egress Passage EP02 Stairwe	1
		5d 25-Aug-16	30-Aug-16	-							I TS3(W) Egress Passage Ef	
	TS3(W) Egress Passage EP02 Stairwell - Roof Slab	6d 31-Aug-16	06-Sep-16								TS3(W) Egres	1
	TS3(W) Egress Passage EP02 to SR8 - Stairs		12-Sep-16								TS3(W) Egres	
			·								13.	S(W); Egress
_	Egress Passage Gallery	11d 25-Aug-16	06-Sep-16								1 TC2010 F F	200 - 000
	TS3(W) Egress Passage EP02 to SR8 - Walls Structure	5d 25-Aug-16	30-Aug-16								TS3(W) Egress Passage Ef	1
	TS3(W) Egress Passage EP02 to SR8 Roof Slab	6d 31-Aug-16	06-Sep-16				1				TS3(W) Egres	s Passage I
	Passage EP-02 on top of CCT Jointing to SR8	11d 07-Sep-16	19-Sep-16									
TS3W_8170	TS3(W) Egress Passage EP02 to SR8 Access Well - Walls Structure	5d 07-Sep-16	12-Sep-16								TS	B(W) Egress
TS3W_8180	TS3(W) Egress Passage EP02 to SR8 Access Well - Roof slab	6d 13-Sep-16	19-Sep-16				1					TS
one C (Type 2) -	Bay 4 to Bay 7	77d 25-Jun-16	24-Sep-16					1				
Blinding + Water	rproofing to Bay 4 to Bay 7	8d 25-Jun-16	04-Jul-16									
TS3W_5620.30	TS3(W) CCT Blinding - Bay 4- Bay 7	4d 25-Jun-16	29-Jun-16		TS3(W) C	CT Blinding - Bay 4- Bay 7						
TS3W_5620.40	TS3(W) - Waterproofing Bay 4- Bay 7	4d 30-Jun-16	04-Jul-16		, <del>         </del>	TS3(W) - Waterproofing Bay	y 4- Bay 7					
Base Slab - Bay	4 to Bay 7 (TS3W)	12d 05-Jul-16	18-Jul-16				1					
TS3W_8571	TS3(W) Base Slab + Drainage - Bay 4 Eastbound	6d 05-Jul-16	11-Jul-16			TS3(W) Base	Slab + Drainage	- Bay 4 Eastbo	und			
TS3W_8575	TS3(W) Base Slab + Drainage - Bay 6 Eastbound	6d 05-Jul-16	11-Jul-16		_	TS3(W) Base	Slab + Drainage	- Bay 6 Eastbo	und			
TS3W_8569	TS3(W) Base Slab + Drainage - Bay 4 Westbound	6d 05-Jul-16	11-Jul-16		_	TS3(W) Base	Slab + Drainage	- Bay 4 Westb	ound			
TS3W_8574	TS3(W) Base Slab + Drainage - Bay 6 Westbound	6d 05-Jul-16	11-Jul-16		_	TS3(W) Base	Slab + Drainage	- Bay 6 Westb	ound			
TS3W_8573	TS3(W) Base Slab + Drainage - Bay 5 Eastbound	6d 12-Jul-16	18-Jul-16			т	S3(W) Base Sla	b + Drainage -	Bay 5 Eastbound			
TS3W_8572	TS3(W) Base Slab + Drainage - Bay 5 Westbound	6d 12-Jul-16	18-Jul-16			1	` [		Bay 5 Westbound			
	TS3(W) Base Slab + Drainage - Bay 7 Eastbound	6d 12-Jul-16	18-Jul-16				1		Bay 7 Eastbound			
	TS3(W) Base Slab + Drainage - Bay 7 Westbound	6d 12-Jul-16	18-Jul-16						Bay 7 Westbound			
Concrete Strut -		7d 12-Jul-16	19-Jul-16				, , , , , , , , , , , , , , , , , , , ,		,			
	TS3(W) Concrete Strut - Bay 4	1d 12-Jul-16	12-Jul-16	_		■ TS3(M) Cor	ncrete Strut - Bay	4				
A7020	TS3(W) Concrete Strut - Bay 6	1d 12-Jul-16	12-Jul-16			1	ncrete Strut - Bay	1				
			19-Jul-16					-	5			
	TS3(W) Concrete Strut - Bay 5	1d 19-Jul-16					TS3(W) Concre					
A7060	TS3(W) Concrete Strut - Bay 7	1d 19-Jul-16	19-Jul-16			•	TS3(W) Concre	ele Silut - Bay	1			
Removal of Walir	ing & Lateral Struts - Layer SL6 & SL7	8d 12-Jul-16	21-Jul-16									
										<b>,</b>		
		Actual Work	Page	4 of 17					Date	Revision	Checked	Appro
		Remaining Work							20-Jun-16	Updated to 20th Jun 2	016 DML/WC	
		Critical Remaining Work	C	ntract No. HY/2010	0/08: Central - V	Vanchai Bypass	Tunnel +	·(Slip				

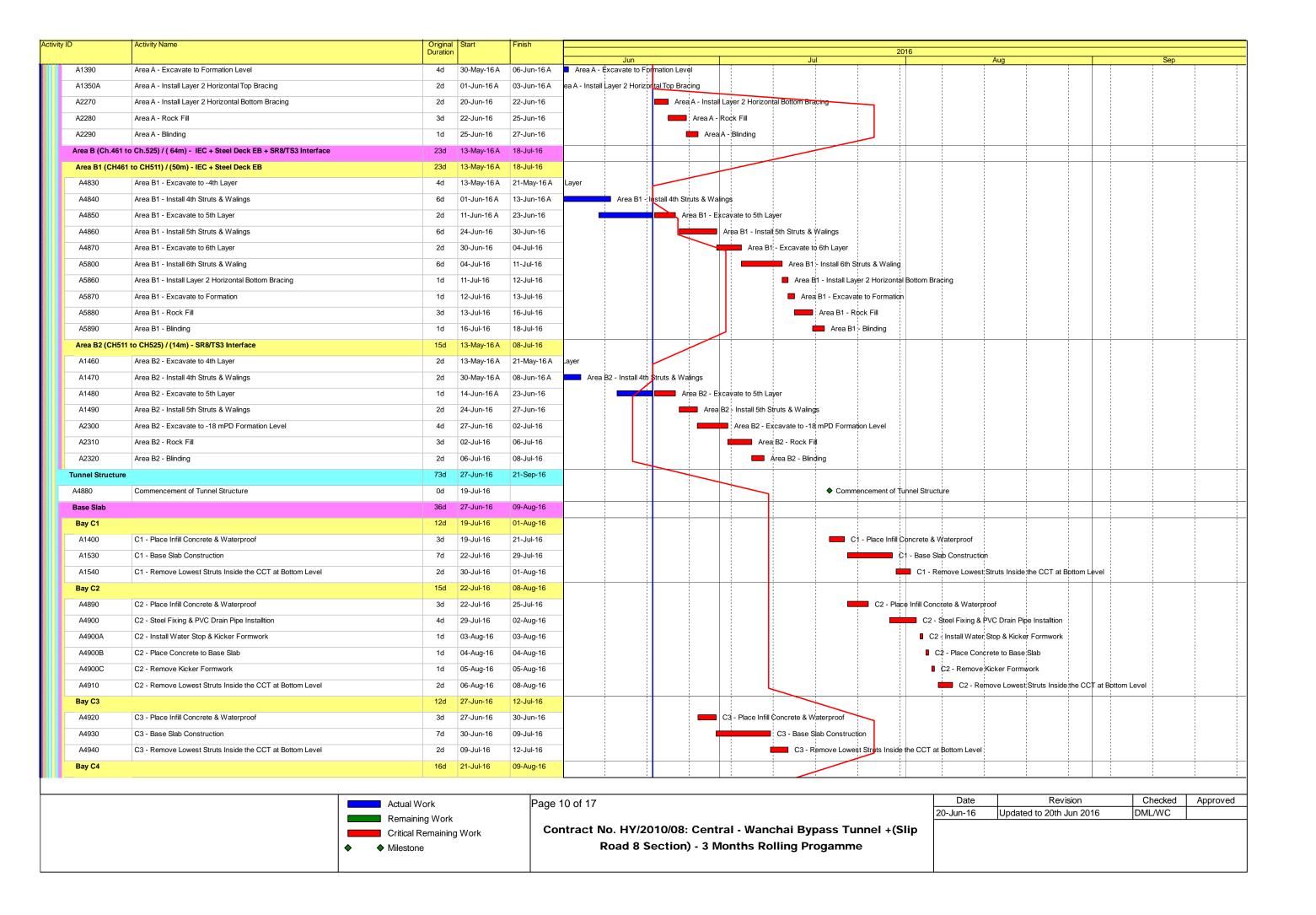


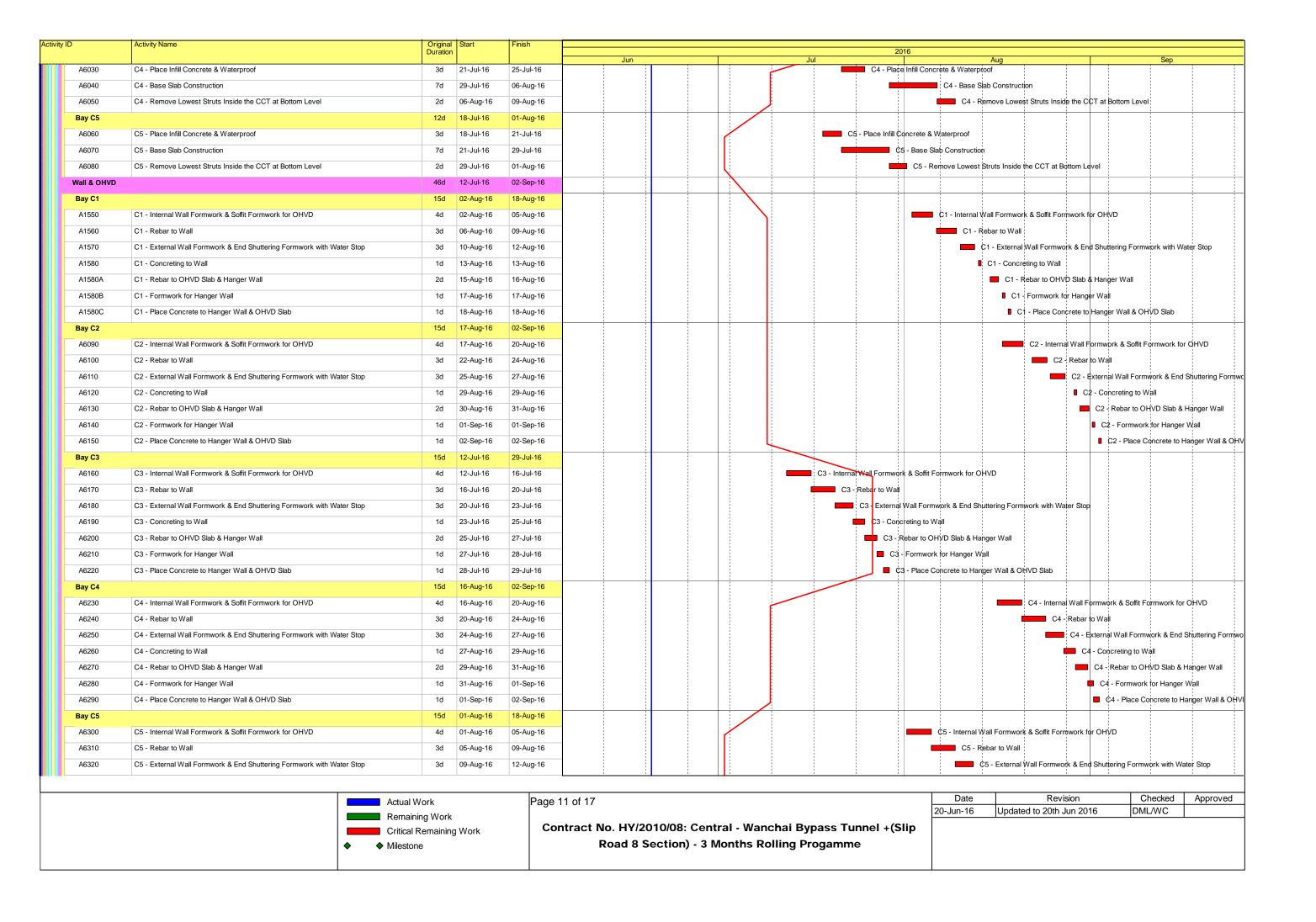


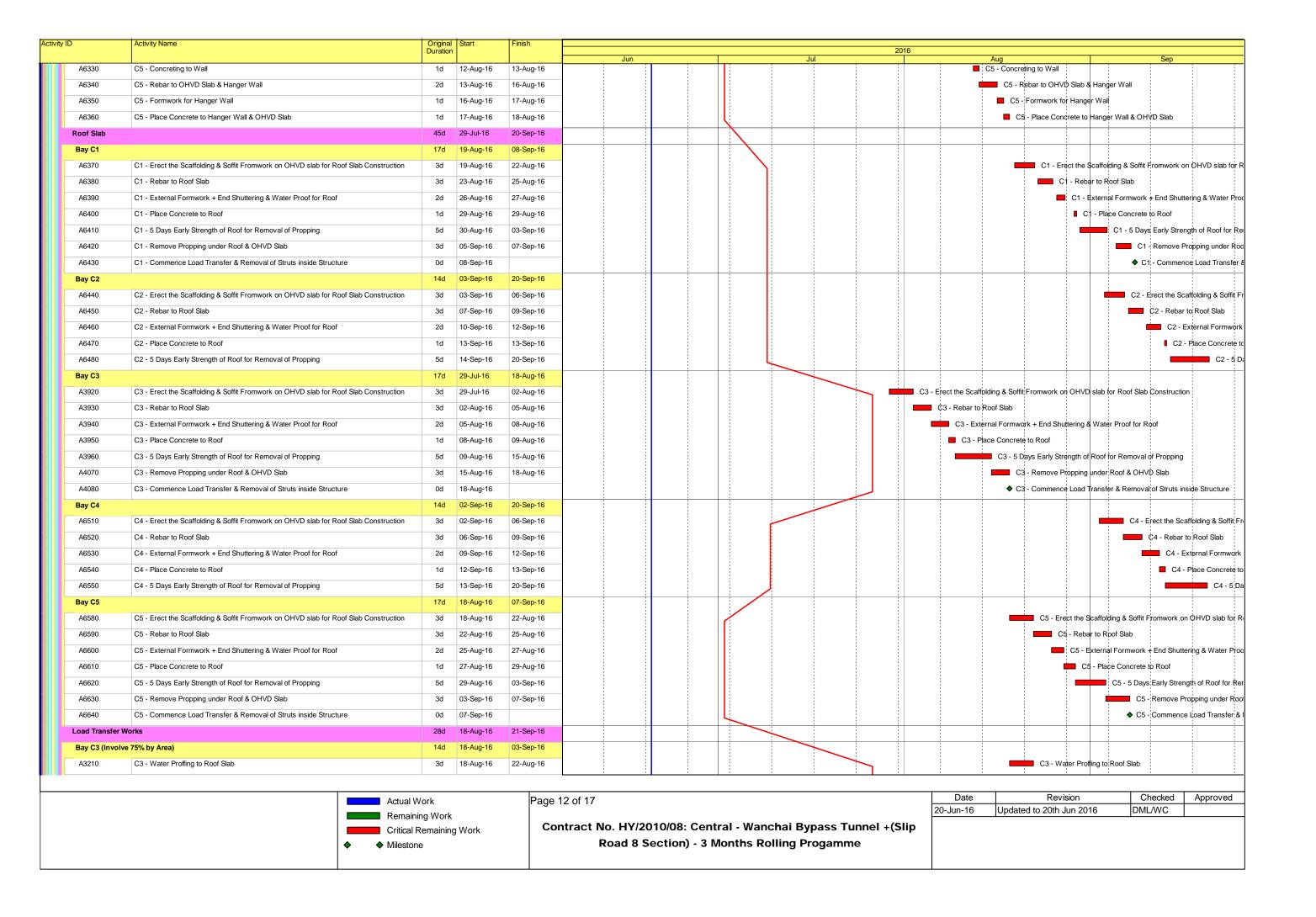
	Activity Name	Original Start	Finish		2016
		Duration		Jun	2016           Jul         Aug         Sep
Intermediated W	alls - Bay 8 to Bay 10	11d 09-Aug-16	22-Aug-16		
TS3W_5820	TS3(W) Intermediate Walls - Bay 8 Westbound	5d 09-Aug-16	15-Aug-16		TS3(W) Intermediate Walls - Bay 8 Westbound
TS3W_5830	TS3(W) Intermediate Walls - Bay 8 Eastbound	5d 09-Aug-16	15-Aug-16		TS3(W) Intermediate Walls - Bay 8 Eastbound
TS3W_5860	TS3(W) Intermediate Walls - Bay 10 Westbound	5d 09-Aug-16	15-Aug-16		TS3(W) Intermediate Walls - Bay 10 Westbound
TS3W_5870	TS3(W) Intermediate Walls - Bay 10 Eastbound	5d 09-Aug-16	15-Aug-16		TS3(W) Intermediate Walls - Bay 10 Eastbound
TS3W_5840	TS3(W) Intermediate Walls - Bay 9 Westbound	5d 16-Aug-16	22-Aug-16		TS3(W) Intermediate Walls - Bay 9;Westbound
TS3W_5850	TS3(W) Intermediate Walls - Bay 9 Eastbound	5d 16-Aug-16	22-Aug-16		TS3(W) Intermediate Walls - Bay 9 Eastbound
	n Walls Including Waterproofing on Wall - Bay 8 to Bay 10	18d 15-Aug-16	05-Sep-16		
_	Fill the void underneath Bay 10 / SR8 - Bay S10	3d 15-Aug-16	18-Aug-16		Fill the void underneath Bay 10 / SR8 - Bay S10
	Fill the void underneath Bay 8 / SR8 - Bay S8	3d 01-Sep-16	05-Sep-16		Fill the void underneath Bay 8 /
	· ·		·		
	Fill the void underneath Bay 9 / SR8 - Bay S9	3d 01-Sep-16	05-Sep-16		Fill the void underneath Bay 9 /
-	S8 to Bay S10 (SR8)	27d 18-Aug-16	19-Sep-16		
TS3W_6150	SR8 Base Slab - Bay S10	6d 18-Aug-16	25-Aug-16		SR8 Base Slab - Bay S10
TS3W_6130	SR8 Base Slab - Bay S8	6d 05-Sep-16	12-Sep-16		SR8 Base Slab -
TS3W_6145	SR8 Base Slab - Bay S9	6d 12-Sep-16	19-Sep-16		SRE
OHVD - Bay 8 to	Bay 10 (TS3W)	26d 25-Aug-16	24-Sep-16		
TS3W_6065	TS3(W) Overhead Ventilation Duct (OVHD) - Bay 10 Westbound	5d 25-Aug-16	31-Aug-16		TS3(W) Overhead Ventilation Duct (OVI
TS3W_6070	TS3(W) Overhead Ventilation Duct (OVHD) - Bay 10 Eastbound	5d 25-Aug-16	31-Aug-16		TS3(W) Overhead Ventilation Duct (OVI
TS3W_6020	TS3(W) Overhead Ventilation Duct (OVHD) - Bay 8 Westbound	5d 12-Sep-16	17-Sep-16		TS3(W)
TS3W_6030	TS3(W) Overhead Ventilation Duct (OVHD) - Bay 8 Eastbound	5d 12-Sep-16	17-Sep-16		TS3(W)
TS3W_6050	TS3(W) Overhead Ventilation Duct (OVHD) - Bay 9 Westbound	5d 19-Sep-16	24-Sep-16		
TS3W_6060	TS3(W) Overhead Ventilation Duct (OVHD) - Bay 9 Eastbound	5d 19-Sep-16	24-Sep-16		
		· ·	·		
_	8 to Bay 10 (TS3W)	8d 22-Aug-16	31-Aug-16		
	TS3(W) Roof Slab - Bay 10 Westbound	8d 22-Aug-16	31-Aug-16		TS3(W) Roof Slab - Bay 10 Westbound
TS3W_9370	TS3(W) Roof Slab - Bay 10 Eastbound	8d 22-Aug-16	31-Aug-16		TS3(W) Roof Slab - Bay 10 Eastbound
Waterproofing to	o Intermediated Walls - TS3W	2d 31-Aug-16	02-Sep-16		
TS3W_9710	TS3(W) Waterproofing to Wall - Bay 10	2d 31-Aug-16	02-Sep-16		TS3(W) Waterproofing to Wall - Bay
TS3W - Re-prop	for Layer 6 Between Intermediated Wall	2d 02-Sep-16	05-Sep-16		
A7120	TS3(W) Re-prop to Intermediated Walls for Layer 6 - Bay 10	2d 02-Sep-16	05-Sep-16		TS3(W) Re-prop to Intermedia
Removal of Strut	ts - Layer SL4 & SL5	4d 05-Sep-16	09-Sep-16		
A7150	TS3(W) Layer 4&5: Removal of waling & lateral struts Bay 10	4d 05-Sep-16	09-Sep-16		TS3(W) Layer 4&5: Re
OHVD - Bay S8 to	o Bay S10 (SR8)	5d 09-Sep-16	15-Sep-16	<u> </u>	
TS3W 9410	SR8 Overhead Ventilation Duct (OVHD) - Bay S10	5d 09-Sep-16	15-Sep-16		SR8 Overh
	S8 to Bay s10 (SR8)	8d 15-Sep-16	24-Sep-16		
	SR8 Roof Slab - Bay S10	8d 15-Sep-16	24-Sep-16		
	nd Egress Passage (CP30/EP03)	31d 27-Jul-16	01-Sep-16		
			<u> </u>		<del> </del>
Cross Passage C		23d 05-Aug-16	01-Sep-16		
	ing between Eastbound & Westbound at Bay 8	23d 05-Aug-16	01-Sep-16		<u> </u>
	TS3(W) Cross Passage CP30 - Base Slab + Drainage	6d 05-Aug-16	12-Aug-16		TS3(W) Cross Passage CP30 - Base Slab + Drainage
	TS3(W) Cross Passage CP30 - Walls	5d 15-Aug-16	20-Aug-16		TS3(W) Cross Passage CP30 - Walls
TS3W_8150	TS3(W) Cross Passage CP30 - Roof Slab	6d 20-Aug-16	27-Aug-16		TS3(W) Cross Passage CP30 - Roof Slab
TS3W_8160	TS3(W) Cross Passage CP30 - Waterproofing + Screeding	4d 27-Aug-16	01-Sep-16		TS3(W) Cross Passage CP30 - Water
Egress Passage	EP-03	2d 27-Jul-16	29-Jul-16		
TS3W_8020	TS3(W) Egress Passage EP03 - Waterproofing and Blinding for Base Slab	2d 27-Jul-16	29-Jul-16		TS3(W) Egress Passage EP03 - Waterproofing and Blinding for Base Slab
	<u> </u>				
	T		ا ا	-1.47	Date Revision Checked Approx
		Actual Work	Page	of 17	20-Jun-16 Updated to 20th Jun 2016 DML/WC
		Remaining Work			

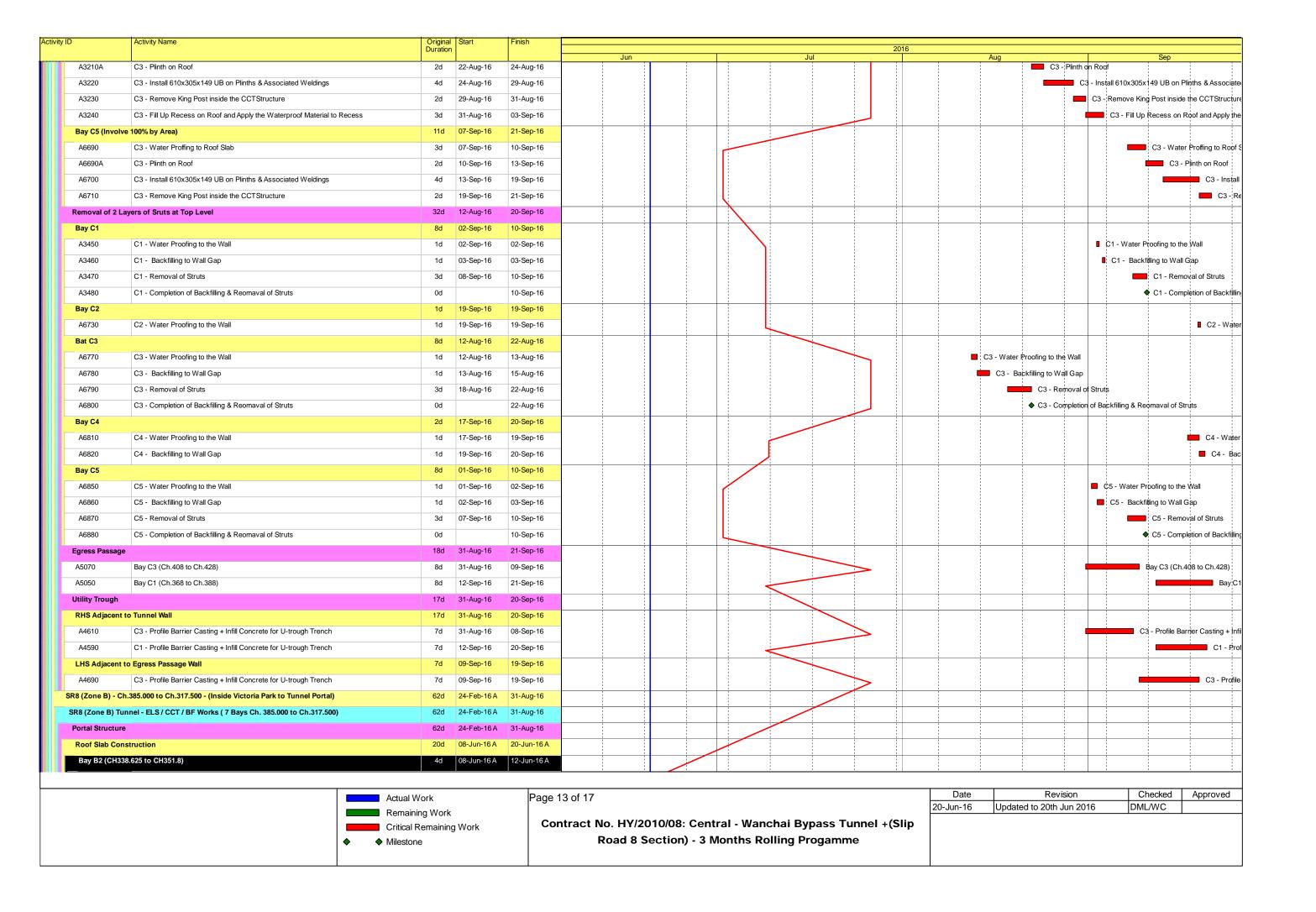


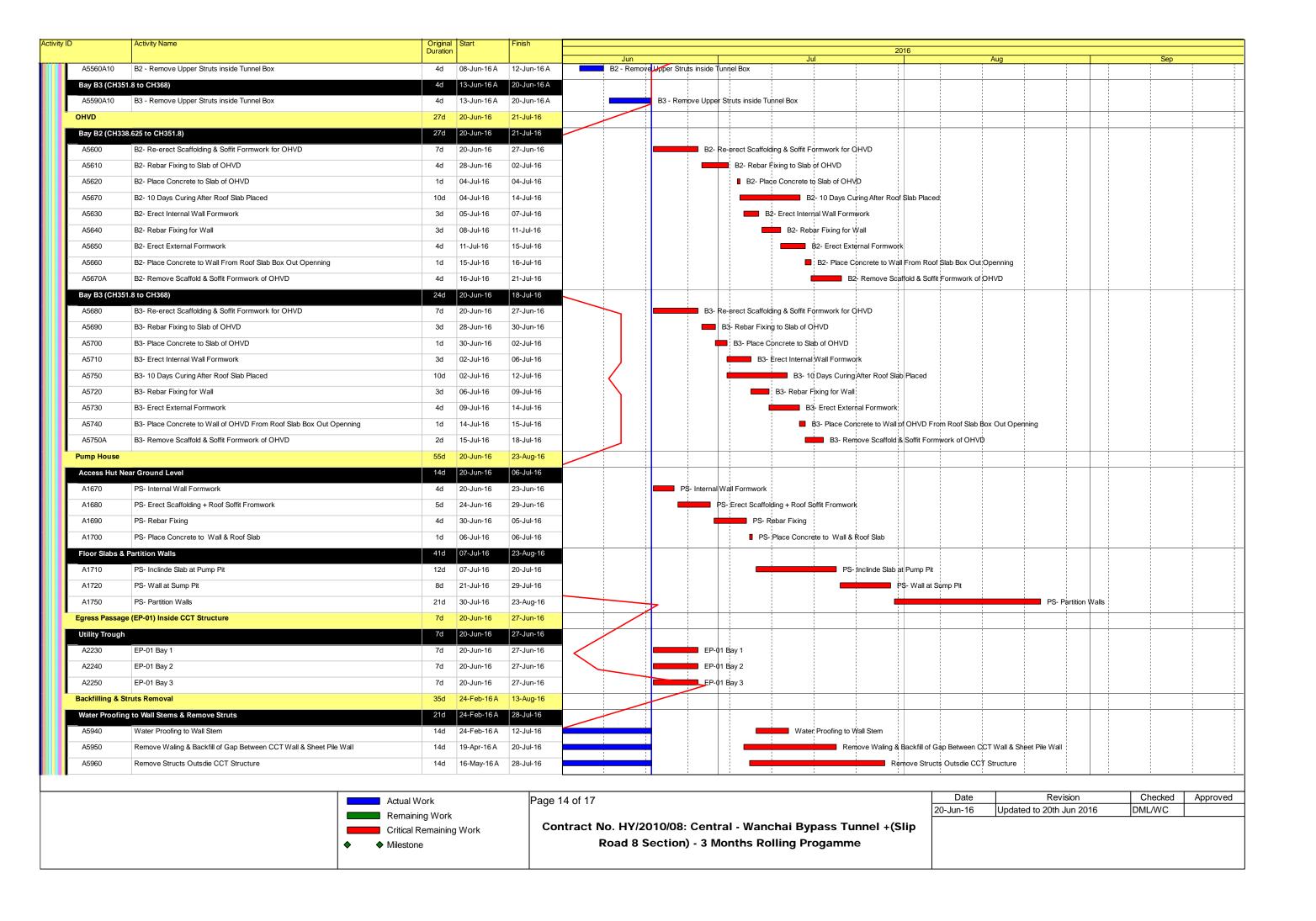


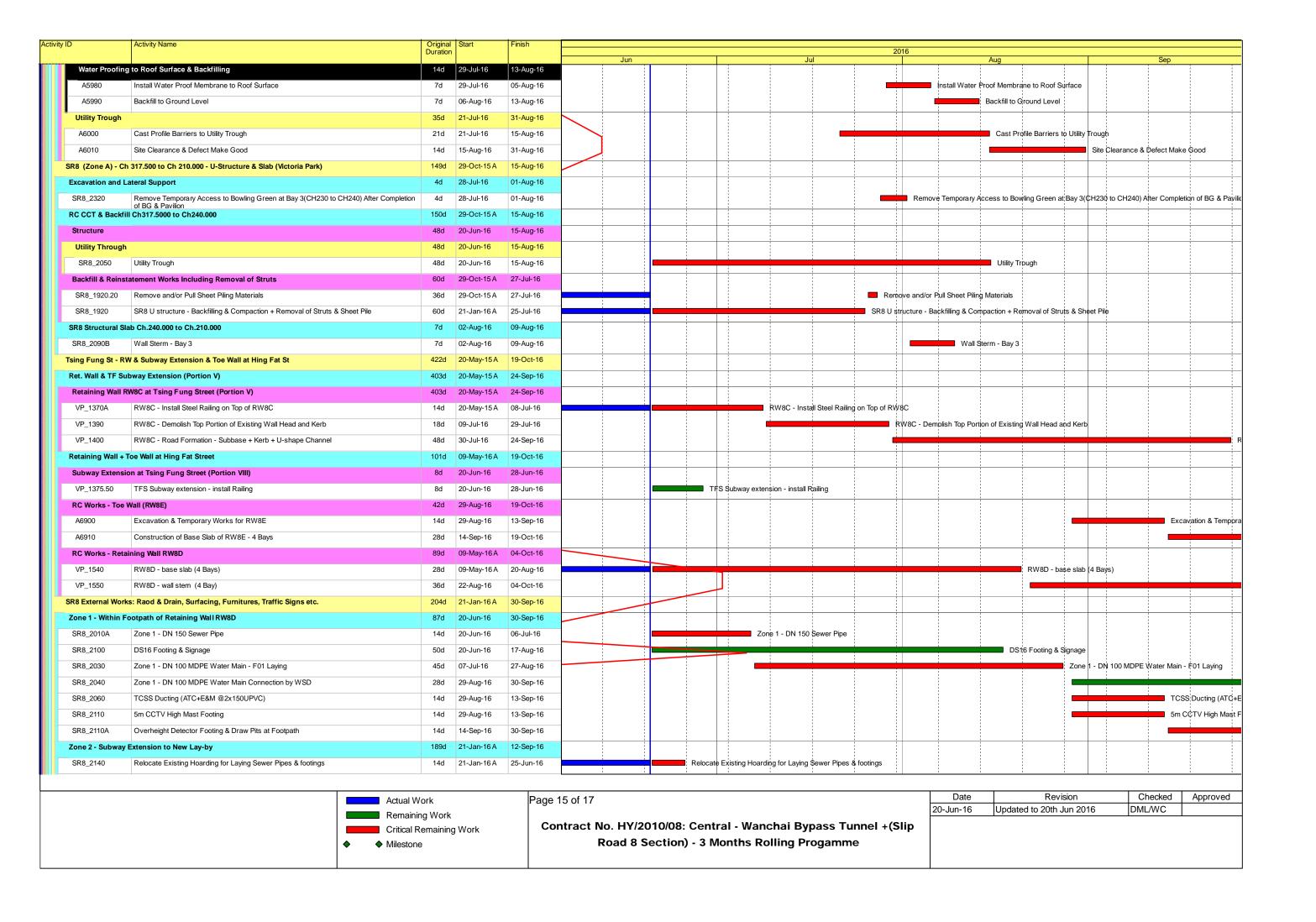


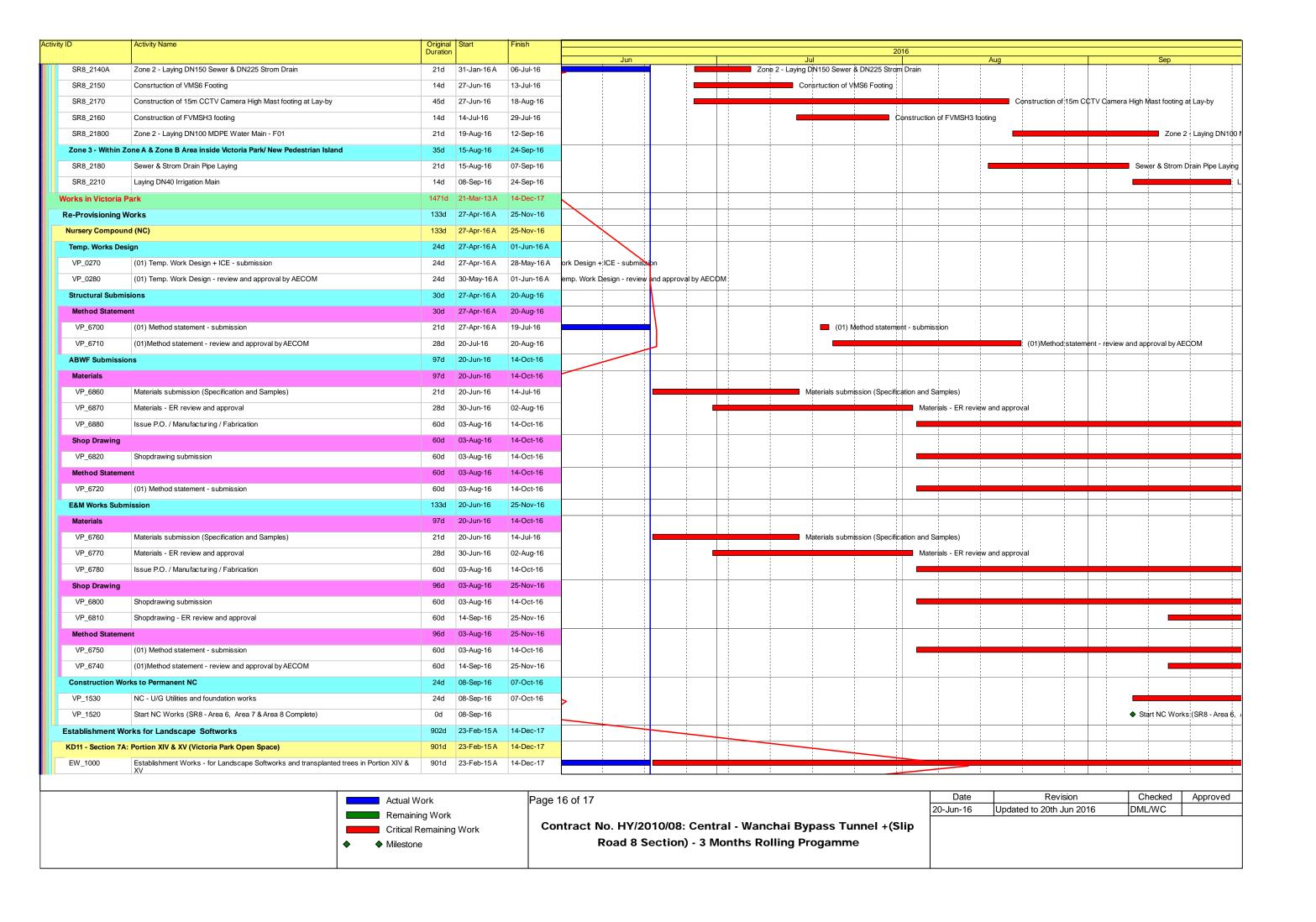












Activity ID	Activity Name	Original	Start	Finish									
		Duration						20	16				
					Jun		J	ul		Aug		Sep	
KD12 - Section	n 7B: Portion VI & VII (Reprov. Bowling Green Area)	177d	03-Dec-15 A	17-Jul-16									
EW_1010	Establishment Works - for Landscape Softworks and transplanted trees in Portion VI & VII	177d	03-Dec-15 A	17-Jul-16				Establishment Works - fo	or Landscape Softworks	and transplai	nted trees in Portion VI & VII		
EW_1030	Completion of KD12- Works in Section 7B	0d		17-Jul-16				◆ Completion of KD12- Wo	rks in Section 7B				
Preservation a	and Protection of Trees	1088d	21-Mar-13 A	20-Nov-16		1							
PPT_0000	Preservation and Protection of Existing Trees	1088d	21-Mar-13 A	20-Nov-16						1			-
Mooring Compo	onents Upkeep (CBTS and ATS)	1399d	21-Mar-13 A	21-Jan-17									
MAR_2000	Mooring Upkeep at Portion XIX(19) & XX(20) - ATS (if instructed by Engineer)	1399d	21-Mar-13 A	17-Jan-17		į				1			+
MAR_3020	Mooring Upkeep at Portion X(10) & XVI(16) - CBTS	979d	15-May-14 A	21-Jan-17									-
Works for Publi	ic Works Regional Laboratory (North Lantau)	1301d	19-Jul-13 A	21-Nov-17	\								
Maintenance a	and Upkeep of New PWRL (Portion XVII)	1301d	19-Jul-13 A	21-Nov-17	\								
PWRL_1050	Maintenance/ Upkeep of New PWRL	1301d	19-Jul-13 A	21-Nov-17		<u> </u>				<u> </u>		<del>-                                    </del>	<del>-</del>

Actual Work

Remaining Work

Critical Remaining Work

Milestone

Page 17 of 17

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

Date	Revision	Checked	Approved
20-Jun-16	Updated to 20th Jun 2016	DML/WC	