



CONTRACT NO: HK/2015/01

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

ENVIRONMENTAL PERMIT NO. EP-364/2009/E,
FURTHER 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/E, FEP-12/364/2009/D

MONTHLY ENVIRONMENTAL MONITORING & AUDIT REPORT

- NOVEMBER 2017 -

CLIENTS:

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Department

and

Highways Department

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DATE:

13 December 2017

Ref.: AACWBIECEM00_0_10005L.17

13 December 2017

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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 (November 2017)
for EP-364/2009/E, FEP-01/364/2009, FEP-02/364/2009,
FEP-05/364/2009/A, FEP-06/364/2009/A, FEP-07/364/2009/D,
FEP-09/364/2009/B, FEP-10/364/2009/B, FEP-11/364/2009/E and
FEP-12/364/2009/D**

Reference is made to the Environmental Team's submission of the captioned Monthly Environmental Monitoring and Audit (EM&A) Report for November 2017 received by e-mail on 13 December 2017 for our review and comment.

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

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

Yours sincerely,



David Yeung
Independent Environmental Checker

c.c.	HyD	Attn: Mr. Tony Cheung	by fax: 2714 5289
	CEDD	Attn: Mr. Stephen Lo	by fax: 2577 5040
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EXECUTIVE SUMMARY

- i. This is the Environmental Monitoring and Audit (EM&A) Monthly Report – [November 2017](#) specific for Environmental Permit no. EP-364/2009/E, Further Environmental Permit nos. FEP-01/364/2009, FEP-02-364/2009, FEP-05/364/2009/A, FEP-06/364/2009/A FEP-07/364/2009/D, FEP-09/364/2009/B, FEP-10/364/2009/B, FEP-11/364/2009/E and FEP-12/364/2009/D. The EM&A report is prepared by the Environmental Team (ET) employed under Contract No. HK/2015/01 – Wan Chai Development Phase II and Central Wanchai Bypass – Sampling, Field Measurement and Testing Works (Stage 3). This report presents the environmental monitoring findings and information recorded during the period of [27 October 2017 to 26 November 2017](#).
- ii. The implementation of the Environmental Monitoring and Audit Programme for the Wan Chai Development phase II and Central-Wan Chai Bypass Project has been taken over by the Lam Geotechnics Limited (LGL) under Contract HK/2015/01 – Wan Chai Development Phase II and Central Wanchai Bypass – Sampling, Field Measurement and Testing Works (Stage 3) from 27 December 2015 in continuation of the previous Environmental Team employed under Contact HK/2011/07 – Wan Chai Development Phase II and Central Wanchai Bypass – Sampling, Field Measurement and Testing Works (Stage 2).
- iii. In the reporting period, the principal work activities of individual contracts are included as follows:
 - Contract no. HY/2009/18 - Central - Wan Chai Bypass (CWB) - Central Interchange under FEP-05/364/2009/A
 - [Landscaping works](#)
 - [Maintenance works](#)
 - 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 amenity area](#)
 - Contract no. HK/2009/02 - Wan Chai Development Phase II - Central - Wan Chai Bypass at Wan Chai East (CWB Tunnel) under FEP-01/364/2009
 - [Rectification works of the flooring under Temporary Covered Walkway and the floor inside rooms underneath staircase ST-01 and construction of EVA at Ferry Pier](#)
 - [Construction of tunnel top slab and the associated backfilling works inside the access shaft at Tunnel Portion 2](#)
 - [Remedial works at soffit of access shaft](#)
 - [Remedial works inside tunnel was completed except water seepage found leaked inside thermal barrier at southern side wall, which idled due to other Contractor's works](#)
 - [Structural works and traffic diversion for Hung Hing Road Flyover approach ramp](#)
 - [Removal of temporary Hung Hing Road Bridge](#)
 - [Backfilling of South West corner on top of Tunnel](#)
 - [Footpath adjacent Hung Hing Road Flyover Approach Ramp](#)

- Preparation work for removal of TWCR4
- Backfilling of South West corner on top of Tunnel
- Submission of schedule of sea wall block
- Remedial works inside tunnel except water seepage found leaked inside thermal barrier at southern side wall, which idled due to other Contractor's works
- Rectification of defect and outstanding works
- Inspection of cross road ducts and drainages
- Construction of corrosion monitoring system
- Construction of DN900 storm water drainage pipe
- Constriction of remaining WCR3 seawall coping
- Construction of emergency vehicle access adjacent to Wan Chai Ferry Pier
- Backfilling works up to updated finished level
- Sewage works at Wan Shing Street

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

- Nil

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

- Approach ramp ELS and excavation works
- Approach ramp structure Construction
- Bridge Construction & installation of enclosure.
- Retaining wall construction.
- FEHD Metal Roof Construction & re-provision including drainage works
- Pre-bored H-piles for Approach Ramp Phase 2 Construction
- Hing Fat Street road and drainage works
- Oil street drainage works
- Installation of skin parapet on TB bridge at Pier 15-17
- Landscape deck pile cap foundation works continues

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

- Construction of Slip Road 1
- Construction of drainage
- Asphalt paving of A2, A4 and A5 Roads

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

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



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/E

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

Noise Monitoring

- iv. Noise monitoring during daytime was conducted at M1a – Footbridge for Harbour Road Sports Center; M2b - Noon-day gun area; M3a - Tung Lo Wan Fire Station; M4b - Victoria Center; M5b - City Garden, M6 - HK Baptist Church Henrietta Secondary School, M7e and M7w – International Financial Centre East Podium and International Finance Centre West Podium and M8 – City Hall on weekly basis in the reporting period.
- 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. With respect to the demolition of Ex-Harbour Road Sports Centre, the respective noise monitoring station M1a – Harbour Road Sports Centre were finely adjusted on 16 and 25 May 2017 and thereafter to the Footbridge for Harbour Road Sports for noise monitoring.
- vii. With respect to the non-CWB Project building construction at Oil Street, the real-time noise monitoring station RTN2a- Hong Kong Electric Centre was finely adjusted from Northeast Side to Northwestern side at Roof Top location on 03 March 2017.
- viii. [Limit level exceedances were recorded at M1a – Footbridge for Harbour Road Sports Center on 03 and 22 November 2017 and the exceedances were concluded as non-Project related.](#)
- ix. [24-hour real time noise monitoring was conducted at RTN1 - FEHD Hong Kong Transport Section Whitfield Depot for construction activities at IEC bridge deck. Project related exceedances were recorded on 17, 18 and 20 November 2017.](#)
- x. [24-hour real time noise monitoring was conducted at RTN2a – Hong Kong Electric Centre. No project related exceedance was recorded in the reporting period.](#)
- xi. [24-hour real time noise monitoring was conducted at RTN3 – Yu Lee Mo Fan Memorial School. No project related exceedance was recorded in the reporting period.](#)
- xii. [24-hour real time noise monitoring was conducted at RTN4 – Causeway Bay Community Centre. No limit level exceedance was recorded in the reporting period.](#)

Air Quality Monitoring

- xiii. 1-hour and 24-hour Total Suspended Particulates (TSP) monitoring were conducted at CMA1b – Harbour Grand Hotel Boundary Wall; CMA2a - Causeway Bay Community Center; CMA3a - CWB PRE Site Office Area; CMA4a – Society for the Prevention of Cruelty to Animals; CMA5b - Pedestrian Plaza; MA1e and MA1w – International Finance Centre eastern and western podium on every six days basis.
- xiv. With respect to the proposed demolition of eastern podium of Oil Street Site Office, the respective air quality monitoring station CMA1b – Oil Street Site Office was finely adjusted from East podium of the Oil Street Site Office to the West podium of the Oil Street Site Office on 21 December 2016.
- xv. With respect to the proposed demolition of the Oil Street Site Office, the respective air quality monitoring station CMA1b – Harbour Grand Hotel Boundary Wall was finely adjusted from the Oil Street Site Office to Harbor Grand Hotel Boundary Wall from 05 June 2017 onwards.
- xvi. [One 1hr TSP action level exceedance was recorded at CMA5b – Pedestrian Plaza on 01 November 2017 in the reporting month and the exceedance was concluded as non-Project related.](#)

- xvii. Two 1hr TSP action level exceedances and one 1hr TSP limit level were recorded at CMA3a – CWB PRE Site Office on 24 November 2017 in the reporting month and the exceedance was concluded as non-Project related.
- xviii. Due to electricity interruption, the TSP monitoring in the reporting period are rescheduled as follow:-
The 24hr TSP monitoring at CMA3a was rescheduled from 31 October 2017 to 01 November 2017.
The 24hr TSP monitoring at CMA4a was rescheduled from 17 November 2017 to 18 November 2017.
The 24hr TSP monitoring at CMA5b was rescheduled from 11 November 2017 to 13 November 2017.

Complaints, Notifications of Summons and Successful Prosecutions

- xix. Two environmental complaints were received in the reporting period.
- xx. First ICC complaint was referred by RSS to the ET on 13 November 2017 (CASE Ref: #2-4320996036). The complainant reported that noise was emanated from construction works conducted opposite to City Garden Block 9 during morning hours from 0300hrs to 0500hrs and metal hammering noise was still emanated at night time causing nuisance to nearby residence.

ET confirmed with the Resident Site Staff that night work including nut fixing works for post supporting bracket of noise enclosure was conducted under Contract HY/2009/19 at IECL westbound bridge Pier 40 around the concerned location from 0300hrs to 0500 hrs on 07 November 2017. Crane lorry for panel removal and hand tools for fixing of nuts were deployed with relevant Construction Noise Permit GW-RS0837-17. No construction works was conducted under Contract HY/2009/19 from 1900hrs to 2300hrs on 07 November 2017. Night work including nut fixing works for post supporting bracket of noise enclosure was conducted under Contract HY/2009/19 at IECL westbound bridge Pier 38 around the concerned location from 0300hrs to 0500hrs on 08 November 2017. Crane lorry for panel removal and hand tools for fixing of nuts were deployed with relevant Construction Noise Permit GW-RS0837-17.

Night work including nut fixing works for post supporting bracket of noise enclosure was conducted under Contract HY/2009/19 at IECL westbound bridge Pier 40 around the concerned location from 0300hrs to 0500 hrs on 07 November 2017. Crane lorry for panel removal and hand tools for fixing of nuts were deployed. Night work including nut fixing works for post supporting bracket of noise enclosure was conducted under Contract HY/2009/19 at IECL westbound bridge Pier 38 around the concerned location from 0300hrs to 0500hrs on 08 November 2017 and crane lorry for panel removal and hand tools for fixing of nuts were deployed. Relevant Construction Noise Permit GW-RS0837-17 was in placed for the above construction activities conducted under Contract HY/2009/19 outside the Designated Area zone under Noise Control Ordinance. No construction works was conducted under Contract HY/2009/19 from 1900hrs to 2300hrs on 07 November 2017. In view of the public concern, the Contractor of HY/2009/19 is recommended to adopt soft face hammer to minimize

- potential noise emanation during works and ii) minimize potential bumping sound with the ground by good practice of material handling to reduce the potential nuisance caused to the surrounding residents. The Contractor of HY/2009/19 was further reminded to observe and strictly follow condition 3.d.7 under relevant Construction Noise Permit GW-RS0837-17.
- xxi. Second EPD complaint (Case ref: H08/RS/00037826-17) was referred to the ET on 24 November 2017. The complainant reported that noise was emanated from construction works conducted at around 2200hrs at North Point New Reclamation Area, Oil Street, North Point.
- ET confirmed with the Resident Site Staff that welding works to the steel strut at Approach Ramp Phase 2 Portion X) were conducted under Contract HY/2009/19 on 20 November 2017 and total 3 nos. of welding machines were operated until 2130hrs. No works was conducted between 2130hrs to 2230hrs on 20 November 2017. No construction works was conducted under HY/2011/08 on 20 November 2017 between 2130hrs to 2230hrs. Welding works to the steel strut at Approach Ramp Phase 2 (Portion X) were conducted under Contract HY/2009/19 on 20 November 2017 and total 3 nos. of welding machines were operated until 2130hrs. No works was conducted between 2130hrs to 2230hrs on 20 November 2017. Meanwhile, no construction works was conducted under HY/2011/08 on 20 November 2017 between 2130hrs to 2230hrs.
- Nevertheless, the Contractor of HY/2011/08 and the Contractor of HY/2009/19 were reminded to maintain proper site control and all construction activities to be conducted during restricted hours shall follow relevant Construction Noise Permit.
- xxii. Four Summons to Defendant (Case No. ESS43568/2017, Case No. ESS43572/2017, Case No. 43570/2017 and Case No. 43574/2017) were issued to the Contractor(s) under Contract HK/2009/02 on 10 November 2017 regarding the cases against Section 6(1)(b) and 6(5), Noise Control Ordinance Cap 400.

Site Inspections and Audit

- i. 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.
- ii. 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.
- iii. 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.
- iv. The Contractors rectified major observations and recommendations made during the audit sessions. No non-conformance was identified during the site inspections.

Future Key Issues

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

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

- Landscaping works
- 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

- Nil

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

- Rectification works of the flooring under Temporary Covered Walkway and the floor inside rooms underneath staircase ST-01 and construction of EVA at Ferry Pier.
- Remaining remedial works of water leakage.
- Removal of temporary Hung Hing Road Bridge
- Backfilling works before removal of ELS for Grid 8-15
- Removal of remaining ELS at layer S1 and S1a
- Pre-fabrication of seawall blocks
- Preparation works for box culver 'O'
- Preparation works for removal of TWCR4
- Pending for remaining remedial works of water leakage.
- Construction of CMS at caisson.
- Construction of surface channel at portion 5.
- Construction of remaining Type 4 covered walkway
- Backfilling works at Portion 5 up to updated finish level
- Remedial works of tunnel wall, base slab and OHVD inside tunnel.
- Drainage cleaning and inspection inside tunnel.
- Sewage works at Wan Shing Street

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

- Nil

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

- Approach ramp ELS and excavation works.
- Approach ramp structure Construction.
- Bridge Construction & installation of enclosure.
- Retaining wall construction.
- FEHD Metal Roof Construction & re-provision including drainage works.
- Hing Fat Street road and drainage works.
- Oil Street drainage works.
- Installation of skin parapet on TB bridge at Pier 15-17.
- Landscape deck pile cap foundation works continues

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

- Construction of Slip Road 1
- Construction of drainage
- Asphalt paving of A2, A4 and A5 Roads

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

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

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/E

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

1 INTRODUCTION

1.1 Scope of the Report

1.1.1. Lam Geotechnics Limited (LGL) has been appointed to work as the Environmental Team (ET) under Environmental Permit no. EP-364/2009/E and Further Environmental permit nos. FEP-01/364/2009, FEP-02-364/2009, FEP-05/364/2009/A, FEP-06/364/2009/A FEP-07/364/2009/D, FEP-09/364/2009/B, FEP-10/364/2009/B, FEP-11/364/2009/E and FEP-12/364/2009/D to implement the Environmental Monitoring and Audit (EM&A) programme as stipulated in the EM&A Manual of the approved Environmental Impact Assessment (EIA) Report for Wan Chai Development phase II and Central-Wan Chai Bypass (Register No.: AEIAR-125/2008) and in the EM&A Manual of the approved EIA Report for Central-Wan Chai Bypass and Island Eastern Corridor Link (Register No. AEIAR-041/2001).

1.1.2. This report presents the environmental monitoring and auditing work carried out in accordance to the Section 10.3 of EM&A Manual and “*Environmental Monitoring and Audit Requirements*” under Particular Specification Section 27.

1.1.3. This report documents the finding of EM&A works for Environmental Permit (EP) no. EP-364/2009/E, Further Environmental Permit (FEP) nos. FEP-01/364/2009, FEP-02-364/2009, FEP-05/364/2009/A, FEP-06/364/2009/A FEP-07/364/2009/D, FEP-09/364/2009/B, FEP-10/364/2009/B, FEP-11/364/2009/E and FEP-12/364/2009/D during the period [27 October 2017 to 26 November 2017](#).

1.2 Structure of the Report

Section 1 *Introduction* – details the scope and structure of the report.

Section 2 *Project Background* – summarizes background and scope of the project, site description, project organization and contact details of key personnel during the reporting period.

Section 3 *Status of Regulatory Compliance* – summarizes the status of valid Environmental Permits / Licenses during the reporting period.

Section 4 *Monitoring Requirements* – summarizes all monitoring parameters, monitoring methodology and equipment, monitoring locations, monitoring frequency, criteria and respective event and action plan and monitoring programmes.

Section 5 *Monitoring Results* – summarizes the monitoring results obtained in the reporting period.

Section 6 *Compliance Audit* – summarizes the auditing of monitoring results, all exceedances environmental parameters.

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

2 PROJECT BACKGROUND

2.1 Background

2.1.1. “Wan Chai Development phase II and Central-Wan Chai Bypass” and “Central-Wan Chai Bypass and Island Eastern Corridor Link” (hereafter called “the Project”) are Designated Project (DP) under the Environmental Impact Assessment Ordinance (Cap. 499) (EIAO). The Environmental Impact Assessment (EIA) Reports for Central-Wan Chai Bypass and Island Eastern Corridor Link (Register No. AEIAR-041/2001) and Wan Chai Development phase II and Central-Wan Chai Bypass (Register No.: AEIAR-125/2008) have been approved on 31 August 2001 and 11 December 2008 respectively.

2.1.2. The key purpose of Wan Chai Development Phase II (WDII) is to provide land at Wan Chai North and North Point for construction of the Central-Wan Chai Bypass and Island Eastern Corridor Link (CWB). Land formed under the project will be developed as a world-class waterfront promenade joining that at the new Central waterfront for public enjoyment.

2.1.3. There is a compelling and present need for the CWB to provide relief to the very congested east-west Connaught Road Central/Harcourt Road / Gloucester Road Corridor (the Corridor) which is currently operating beyond its capacity. The CWB will provide relief to the existing congestion along the Corridor and cater for the anticipated growth of traffic on Hong Kong Island. Without the CWB and its access roads, there will not be sufficient capacity to serve the heavy traffic demands at both strategic and local levels.

2.2 Scope of the Project and Site Description

2.2.1. Design and Construction of Central – Wan Chai Bypass and Island Eastern Corridor Link under the Project involves the construction and operation of a trunk road and its road tunnel more than 800m in length between portals that is shown at Figure 2.1.

2.2.2. The study area encompasses existing developments from Central to North Point. The scope of the Central-Wanchai Bypass (CWB) and Island Eastern Corridor Link (IECL) includes:

- A dual three-lane trunk road, approximately 4.5 km in length, and tunnel approximately 3.7 km in length defined from the connection with the existing Rumsey Street Flyover in Central, through to a connection with the existing Island Eastern Corridor to the east of the Causeway Bay Typhoon Shelter (CBTS);
- The Central Interchange near the Rumsey Street Flyover to provide road connections to the Central area;
- Tunnel control buildings and ventilation buildings;
- Slip roads to connect the CWB to the local road system in the Wan Chai North and Causeway Bay area;
- Associated road lighting, road signing, traffic control and surveillance system; and
- Other associated works.

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

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 **Table 2.2**.

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 3328
Chun Wo – Leader Joint Venture	Contractor under Contract no. HK/2009/01	Project Manager	Mr. Simon Liu	2162 9909	2587 1878
		Site Agent	Mr. Andy Yu	9648 4896	
		Construction Manager	Mr. Wyman Wong	9627 2467	



Party	Role	Post	Name	Contact No.	Contact Fax
		Environmental Officer	Mr. Terry Tsang	6683 9394	
Chun Wo – CRGL Joint Venture	Contractor under Contract no. HK/2009/02	Site Agent	Mr. K.K. Yuen	3658-3002	2827 9996
		Project Manager	Mr. Paul Yu	3658 3085	
		Environmental Officer	Mr. C.P. Ho	9191 8856	
Chun Wo - CRGL - MBEC_Joint Venture	Contractor under Contract no. HY/2009/19	Project Manager	Mr. Rayland Lee	3758 8879	2570 8013
		Deputy Project Manager	Mr. William Luk	9456 9819	
		Site Agent	Mr. David Lau	3758 8879	
		Deputy Site Agent	Mr. Eric Fong	6191 9337	
		Environmental Officer	Mr. M.H. Isa	3757 8218	
		Assistant Environmental Officer	Mr. James Chan	3757 8217	
Leighton Contractors (Asia) Limited	Contractor under Contract no. HY/2009/18	Site Agent	Mr. Jimmy Chu	3973 0803	2140 6799
		Environmental Supervisor	Ms. Christy So	3973 1065	
China State Construction Engineering (HK) Ltd.	Contractor under Contract no. HY/2009/15	Project Director	Mr. Chris Leung	3557 6393	2865 5229
		Site Manager	Mr. Y. Huo	3557 6368	
		Contractor's Representative	Mr. Rex Lau	3557 6405	
		Environmental Officer	Mr. Andy Mak	3557 6347	
China State-Build King JV	Contractor under Contract no. HK/2012/08	Project Director	Mr. C.N. Lai	9137 1811	2877 1522
		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	
China State	Contractor under Contract no. HY/2010/08	Project Director	Chris Leung	9210 7116	2566 8061
		Site Agent	Mr. Thomas Lui	3557 6407	
		Environmental Officer	Mr. Gabriel Wong	3557 6466	
Leighton Joint Venture	Contractor under Contract no. HY/2011/08	Site Agent	Mr. Colman Wong	2823 1410	21406799
		Environmental Officer	Mr. Chris Chan	3973 0850	



Party	Role	Post	Name	Contact No.	Contact Fax
		Environmental Supervisor	Ms. 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 period, the principal work activities of individual contracts are included as follows:

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

- Landscaping works
- Maintenance works

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 amenity area

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

- Rectification works of the flooring under Temporary Covered Walkway and the floor inside rooms underneath staircase ST-01 and construction of EVA at Ferry Pier
- Construction of tunnel top slab and the associated backfilling works inside the access shaft at Tunnel Portion 2
- Remedial works at soffit of access shaft
- Remedial works inside tunnel was completed except water seepage found leaked inside thermal barrier at southern side wall, which idled due to other Contractor's works
- Structural works and traffic diversion for Hung Hing Road Flyover approach ramp
- Removal of temporary Hung Hing Road Bridge
- Backfilling of South West corner on top of Tunnel
- Footpath adjacent Hung Hing Road Flyover Approach Ramp
- Preparation work for removal of TWCR4
- Backfilling of South West corner on top of Tunnel
- Submission of schedule of sea wall block
- Remedial works inside tunnel except water seepage found leaked inside thermal barrier at southern side wall, which idled due to other Contractor's works
- Rectification of defect and outstanding works
- Inspection of cross road ducts and drainages
- Construction of corrosion monitoring system
- Construction of DN900 storm water drainage pipe
- Constriction of remaining WCR3 seawall coping
- Construction of emergency vehicle access adjacent to Wan Chai Ferry Pier
- Backfilling works up to updated finished level
- Sewage works at Wan Shing Street

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

- Nil

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

- Approach ramp ELS and excavation works
- Approach ramp structure Construction
- Bridge Construction & installation of enclosure.
- Retaining wall construction.
- FEHD Metal Roof Construction & re-provision including drainage works
- Pre-bored H-piles for Approach Ramp Phase 2 Construction
- Hing Fat Street road and drainage works
- Oil street drainage works
- Installation of skin parapet on TB bridge at Pier 15-17
- Landscape deck pile cap foundation works continues

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

- Construction of Slip Road 1
- Construction of drainage
- Asphalt paving of A2, A4 and A5 Roads

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

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

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/E

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

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

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

- Landscaping works
- 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

- Nil

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

- Rectification works of the flooring under Temporary Covered Walkway and the floor inside rooms underneath staircase ST-01 and construction of EVA at Ferry Pier.
- Remaining remedial works of water leakage.
- Removal of temporary Hung Hing Road Bridge
- Backfilling works before removal of ELS for Grid 8-15
- Removal of remaining ELS at layer S1 and S1a
- Pre-fabrication of seawall blocks
- Preparation works for box culver 'O'
- Preparation works for removal of TWCR4
- Pending for remaining remedial works of water leakage.
- Construction of CMS at caisson.
- Construction of surface channel at portion 5.
- Construction of remaining Type 4 covered walkway
- Backfilling works at Portion 5 up to updated finish level
- Remedial works of tunnel wall, base slab and OHVD inside tunnel.
- Drainage cleaning and inspection inside tunnel.
- Sewage works at Wan Shing Street

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

- Nil

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

- Approach ramp ELS and excavation works.
- Approach ramp structure Construction.
- Bridge Construction & installation of enclosure.
- Retaining wall construction.
- FEHD Metal Roof Construction & re-provision including drainage works.
- Hing Fat Street road and drainage works.
- Oil Street drainage works.
- Installation of skin parapet on TB bridge at Pier 15-17.
- Landscape deck pile cap foundation works continues

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

- Construction of Slip Road 1
- Construction of drainage
- Asphalt paving of A2, A4 and A5 Roads

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

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

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/E

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

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 Licenses	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	Superseded
Environmental Permit	EP-364/2009/E	22 Dec 2016	Valid
Environmental Permit	EP-376/2009	13 Nov 2010	Valid
Further Environmental Permit	FEP-01/356/2009	18 Feb 2010	Surrendered
Further Environmental Permit	FEP-02/356/2009	24 Mar 2010	Valid
Further Environmental Permit	FEP-03/356/2009	24 Mar 2010	Valid
Further Environmental Permit	FEP-04/356/2009	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	Superseded
Further Environmental Permit	FEP-11/364/2009/E	22 Dec 2016	Valid
Further Environmental Permit	FEP-12/364/2009/D	01 Aug 2016	Valid

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

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

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

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

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.

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

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 Permit	FEP-02/356/2009	24 Mar 2010	N/A	Valid
	FEP-02/364/2009	21 Apr 2010	N/A	Valid
Notification of Works Under APCO	313088	06 Jan 2010	N/A	Valid
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

EP Condition	Submission	Date of Submission
Condition 2.7 & 2.8	Works Schedule and Location Plan	18 May 2011
Condition 2.6	Environmental Management Organization Chart	18 May 2011
Condition 1.12	Commencement Date of Works	20 Jun 2011
Condition 2.9	Noise Management Plan	10 Jun 2011
Condition 2.11	Landscape Plan (Rev.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 Licenses	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental Permit	FEP-03/356/2009	24 Mar 2010	N/A	Valid
	FEP-01/364/2009	24 Mar 2010	N/A	Valid
Notification of Works Under APCO	313962	2 Feb 2010	N/A	Valid
Construction Noise Permit (CNP) for non-piling equipment	GW-RS0726-17	22 Aug 2017	03 Sep 2017 to 25 Feb 2018	Cancelled
	GW-RS0751-17	04 Sep 2017	10 Sep 2017 to 04 Feb 2018	Cancelled
	GW-RS0763-17	04 Sep 2017	06 Sep 2017 to 04 Mar 2018	Cancelled
	GW-RS0756-17	04 Sep 2017	07 Sep 2017 to 28 Feb 2018	Valid
	GW-RS0843-17	28 Sep 2017	07 Oct 2017 to 25 Mar 2018	Valid
	GW-RS0869-17	10 Oct 2017	15 Oct 2017 to 11 Mar 2018	Valid
	GW-RS0884-17	12 Oct 2017	24 Oct 2017 to 23 Apr 2018	Valid
	GW-RS0885-17	12 Oct 2017	14 Oct 2017 to 12 Apr 2018	Valid
Water Discharge License	WT00022295-2015	12 Aug 2015	31 July 2020	Valid
	WT00025276-2016	19 Sep 2016	31 July 2021	Valid
Billing Account under Waste Disposal Ordinance (Land)	7010255	10 Feb 2010	N/A	Valid
Registration as Chemical Waste Producer (Wan Chai)	WPN5213-135-C3593-01	10 Mar 2010	N/A	Valid

Permits and/or Licenses	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Registration as Chemical Waste Producer (TKO 137)	WPN5213-839-C3593-02	22 Sep 2010	N/A	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

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

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
Construction Noise Permit (CNP) for non-piling equipment	GW-RS0532-17	15 Jun 2017	1 Jul 2017 to 31 Dec 2017	Valid
	GW-RS0694-17	15 Aug 2017	18 Aug 2017 to 24 Jan 2018	Valid
Discharge Licenses	WT00014966-2013	08 Jan 2013	31 Jan 2018	Cancelled
	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
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

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

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 Permit	FEP-06/364/2009/A	22 Nov 2010	N/A	Valid
	FEP-04/356/2009	22 Nov 2010	N/A	Valid
Notification of Works Under APCO	321822	24 Sep 2010	N/A	Valid
Registration as a Chemical Waste Producer	WPN: 5213-147-C1169-35	15 Nov 2010	N/A	Valid
Billing Account under Waste Disposal Ordinance	7011553	30 Sep 2010	N/A	Valid
Construction Noise Permit	GW-RS0586-17	06 July 2017	10 Jul 2017 to 05 Dec 2017	Valid
Water Discharge License (Discharge at TS1)	WT00024874-2016	20 Jul 2016	20 Jul 2016 to 31 Mar 2021	Valid
Water Discharge Licence (Discharge at TPCWAE)	WT00024951-2016	08 Jul 2016	8 Jul 2016 to 31 Dec 2017	Valid

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

EP Condition	Submission	Date of Submission
Condition 2.6	Management Organization of Main Construction Companies	11 Mar 2011
	Amendment for Management Organization of Main Construction Companies	16 May 2011
Condition 2.7	Works Schedule	15 Mar 2011
Condition 2.8	Location Plan	15 Mar 2011
Condition 2.9	Noise Management Plan	6 May 2011
Condition 2.10	Landscape Plan (Rev.3)	30 Jan 2015

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

3.1.10. 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 Permit	FEP-07/364/2009/A	25 Feb 2011	N/A	Superseded
	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
Construction Noise Permits (CNP) for non-piling equipment	GW-RS0562-17	28 Jun 17	30 Jun 2017 to 27 Dec 2017	Valid
	GW-RS0552-17	22 Jun 17	28 Jun 2017 to 27 Dec 2017	Valid
	GW-RS0792-17	14 Sep 17	16 Sep 2017 to 14 Dec 2017	Expired
	GW-RS0837-17	29 Sep 17	01 Oct 2017 to 28 Dec 2017	Valid
Water Discharge License	WT00025282-2016	15 Sep 2016	30 Sep 2021	Valid
Dumping Permit (Approach Ramp) (Type 1 – Open Sea Disposal)	EP/MD/18-035	20 Sep 2017	20 Sep 2017 to 20 Dec 2017	Expired

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

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

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

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

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 Environmental Permit	FEP-09/364/2009/B	5 Mar 2013	N/A	Valid
	FEP-12/364/2009/D	1 Aug 2016	N/A	Valid
	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	30 Jun 2016	N/A	Valid
Billing Account under Waste Disposal Ordinance	7016883	18 Feb 2013	N/A	Valid
Construction Noise Permit (CNP) for non-piling equipment	GW-RS0593-17	11 Jul 2017	13 Jul 2017 to 12 Jan 2018	Valid
	GW-RS0509-17	8 Jun 2017	08 Jul 2017 to 07 Jan 2018	Valid
	GW-RS0676-17	3 Aug 2017	26 Aug 2017 to 25 Feb 2018	Valid
Water Discharge License	WT00018223-2014	28 Jan 2014	31 Jan 2019	Cancelled
	WT00020594-2014	22 Dec 2014	31 Jan 2019	Valid

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

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

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

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
Further Environmental Permit	FEP-10/364/2009/B	26 Jul 2013	NA	Valid
	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	09 Jul 2013	28 Jul 2018	Cancelled
	WT00020468-2014	03 Dec 2017	31 Jul 2018	Valid
Construction Noise Permit (CNP) for non-piling equipment	GW-RS0396-17	08 May 2017	10 May 2017 to 04 Nov 2017	Expired
	GW-RS0499-17	08 Jun 2017	09 Jun 2017 to 28 Nov 2017	Valid
	GW-RS0518-17	13 Jun 2017	26 Jun 2017 to 25 Nov 2017	Cancelled
	GW-RS0618-17	25 Jul 2017	29 Jul 2017 to 29 Oct 2017	Expired
	GW-RS0630-17	24 Jul 2017	30 Jul 2017 to 29 Jan 2018	Valid
	GW-RS0631-17	24 Jul 2017	31 Jul 2017 to 29 Jan 2018	Valid
	GW-RS0637-17	24 Jul 2017	27 Jul 2017 to 30 Nov 2017	Valid
	GW-RS0648-17	25 Jul 2017	28 Jul 2017 to 25 Jan 2018	Valid

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
	GW-RS0665-17	02 Aug 2017	04 Aug 2017 to 27 Oct 2017	Expired
	GW-RS0685-17	11 Aug 2017	19 Aug 2017 to 12 Nov 2017	Expired
	GW-RS0697-17	15 Aug 2017	20 Aug 2017 to 17 Dec 2017	Valid
	GW-RS0748-17	31 Aug 2017	02 Sep 2017 to 08 Dec 2017	Valid
	GW-RS0814-17	20 Sep 2017	21 Sep 2017 to 16 Dec 2017	Valid
	GW-RS0877-17	10 Oct 2017	18 Oct 2017 to 17 April 2018	Valid
	GW-RS0882-17	10 Oct 2017	19 Oct 2017 to 21 Dec 2017	Valid
	GW-RS0897-17	17 Oct 2017	19 Oct 2017 to 08 Feb 2017	Valid
	GW-RS0905-17	17 Oct 2017	19 Oct 2017 to 14 Apr 2018	Valid
	GW-RS1030-17	23 Nov 2017	01 Dec 2017 to 27 May 2018	Valid
	GW-RS1034-17	23 Nov 2017	09 Dec 2017 to 20 May 2018	Valid
	GW-RW0536-17	10 Oct 2017	26 Oct 2017 to 24 Apr 2018	Valid

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

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

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/E

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

Table 3.16 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	Superseded
	FEP-11/364/2009/E	22 Dec 2016	N/A	Valid
Notification of Works Under APCO	LCAC-EN-LE-00017	7 Mar 2014	N/A	Valid
Registration as a Chemical Waste Producer	5213-121-L2837-01	19 Apr 2016	N/A	Registered
	5213-151-L2837-02	24 May 2016	N/A	Registered
	5213-134-L2898-01	16 Nov 2015	N/A	Registered
	5213-134-L2952-01	12 May 2017	N/A	Registered
Billing Account under Waste Disposal Ordinance	7019640	27 Mar 2014	N/A	Valid
Construction Noise Permit (CNP) for non-piling equipment	GW-RS0359-17	25 Apr 2017	01 May 2017 to 31 Oct 2017	Expired
	GW-RS0375-17	25 Apr 2017	01 May 2017 to 31 Oct 2017	Expired
	GW-RS0381-17	26 Apr 2017	01 May 2017 to 31 Oct 2017	Expired
	GW-RS0460-17	18 May 2017	01 Jun 2017 to 31 Oct 2017	Expired
	GW-RS0463-17	18 May 2017	01 Jun 2017 to 31 Oct 2017	Expired
	GW-RS0465-17	18 May 2017	01 Jun 2017 to 31 Oct 2017	Expired
	GW-RS0523-17	15 Jun 2017	01 Jul 2017 to 31 Dec 2017	Valid
	GW-RS0528-17	15 Jun 2017	01 Jul 2017 to 31 Dec 2017	Valid
	GW-RS0591-17	07 Jul 2017	09 Jul 2017 to 31 Dec 2017	Valid
	GW-RS0656-17	26 Jul 2017	01 Aug 2017 to 31 Jan 2018	Valid
	GW-RS0643-17	26 Jul 2017	01 Aug 2017 to 31 Jan 2018	Valid

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
	GW-RS0740-17	24 Aug 2017	26 Aug 2017 to 23 Feb 2018	Valid
	GW-RS0722-17	23 Aug 2017	31 Aug 2017 to 27 Feb 2018	Valid
	GW-RS0737-17	24 Aug 2017	01 Sep 2017 to 28 Feb 2018	Valid
	GW-RS0893-17	12 Oct 2017	16 Oct 2017 to 24 Jan 2018	Valid
	GW-RS0824-17	22 Sep 2017	25 Sep 2017 to 30 Nov 2017	Valid
	GW-RS0887-17	12 Oct 2017	14 Oct 2017 to 31 Mar 2018	Valid
Water Discharge License	WT00020242-2014	04 Nov 2014	30 Nov 2019	Cancelled
	WT00022046-2015	15 Jul 2015	31 Jul 2019	Valid
	WT00022753-2015	22 Jun 2017	30 Apr 2021	Valid
	WT00024561-2016	30 May 2016	31 May 2021	Valid
	WT00025858-2016	17 Oct 2016	31 Oct 2021	Valid
	WT00026829-2017	14 Jun 2017	31 Jan 2022	Valid
	WT00027343-2017	01 Mar 2017	31 Mar 2022	Valid

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

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

4 MONITORING REQUIREMENTS

4.1 Noise Monitoring

NOISE MONITORING STATIONS

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

Table 4.1 Noise Monitoring Stations

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

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

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

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

REAL TIME NOISE MONITORING STATIONS

4.1.2. The noise monitoring stations for the Project are listed and shown in **Table 4.2** and **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

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 (L_{eq}). L_{eq} (30 minutes) shall be used as the monitoring parameter for the time period between 0700 and 1900 hours on normal weekdays. For all other time periods, L_{eq} (5 minutes) shall be employed for comparison with the Noise Control Ordinance (NCO) criteria. Supplementary information for data auditing, statistical results such as L_{10} and L_{90} 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 TM 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	Harbour Grand Hotel Boundary Wall**	North Point (Re-commenced on 14 November 2011)
CMA2a	Causeway Bay Community Centre	Causeway Bay
CMA3a	CWB PRE Site Office *	Causeway Bay
CMA4a	Society for the Prevention of Cruelty to Animals	Wan Chai
CMA5b	Pedestrian Plaza***	Wan Chai
MA1e	International Finance Centre (Eastern End of Podium)	Central
MA1w	International Finance Centre (Western End of Podium)	Central

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

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

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

AIR QUALITY MONITORING PARAMETERS, FREQUENCY AND DURATION

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

SAMPLING PROCEDURE AND MONITORING EQUIPMENT

4.2.5. High volume samplers (HVSs) in compliance with the following specifications shall be used for carrying out the 1-hour and 24-hour TSP monitoring:

- 0.6 – 1.7 m³ per minute adjustable flow range;
- Equipped with a timing / control device with +/- 5 minutes accuracy for 24 hours operation;
- Installed with elapsed-time meter with +/- 2 minutes accuracy for 24 hours operation;
- Capable of providing a minimum exposed area of 406 cm²;
- Flow control accuracy: +/- 2.5% deviation over 24-hour sampling period;
- Equipped with a shelter to protect the filter and sampler;
- Incorporated with an electronic mass flow rate controller or other equivalent devices;
- Equipped with a flow recorder for continuous monitoring;
- Provided with a peaked roof inlet;
- Incorporated with a manometer;
- Able to hold and seal the filter paper to the sampler housing at horizontal position;
- Easily changeable filter; and
- Capable of operating continuously for a 24-hour period.

4.2.6. Initial calibration of dust monitoring equipment shall be conducted upon installation and thereafter at bi-monthly intervals. The transfer standard shall be traceable to the internationally recognized primary standard and be calibrated annually. The concern parties such as IEC shall properly document the calibration data for future reference. All the data should be converted into standard temperature and pressure condition.

LABORATORY MEASUREMENT / ANALYSIS

4.2.7. A clean laboratory with constant temperature and humidity control, and equipped with necessary measuring and conditioning instruments to handle the dust samples collected, shall be available for sample analysis, and equipment calibration and maintenance. The laboratory should be HOKLAS accredited.

4.2.8. Filter paper of size 8" x 10" shall be labelled before sampling. It shall be a clean filter paper with no pinholes, and shall be conditioned in a humidity-controlled chamber for over 24 hours and be pre-weighed before use for the sampling.

4.2.9. After sampling, the filter paper loaded with dust shall be kept in a clean and tightly sealed plastic bag. The filter paper shall then be returned to the laboratory for reconditioning in the humidity controlled chamber followed by accurate weighing by an electronic balance with readout down to 0.1 mg. The balance shall be regularly calibrated against a traceable standard.

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

4.2.11. Current calibration certificates of equipments are presented in **Appendix 4.2**.

5 MONITORING RESULTS

5.0.1. The environmental monitoring will be implemented based on the division of works areas of each designated project managed under different contracts with separate FEP applied by individual contractors. Overall layout showing work areas of various contracts, latest status of work commencement and monitoring stations is shown in **Figure 2.1** and **Figure 4.1**. The monitoring results are presented in according to the Individual Contract(s).

5.0.2. In the reporting period, the concurrent contracts are as follows:

- Contract no. HY/2009/15 – Central-Wanchai Bypass – Tunnel (Causeway Bay Typhoon Shelter Section)
- Contract no. HY/2009/18 – Central – Wan Chai Bypass (CWB) – Central Interchange
- Contract no. HY/2009/19 – Central – Wanchai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link
- Contract no. HY/2010/08 – Central- Wanchai Bypass Tunnel (Slip Road 8 Section)
- Contract no. HK/2009/01 – Wan Chai Development Phase II – Central – Wan Chai Bypass at Hong Kong Convention and Exhibition Centre
- Contract no. HK/2009/02 - Wan Chai Development Phase II – Central - Wan Chai Bypass at Wan Chai East
- Contract no. HK/2012/08 – Wan Chai Development Phase II – Central – Wan Chai Bypass at Wan Chai West
- Contract no. HY/2011/08 – Central - Wan Chai Bypass (CWB)– Tunnel Buildings, Systems and Fittings, and Works Associated with Tunnel Commissioning

5.0.3. The environment monitoring schedules for reporting period and coming month are presented in **Appendix 5.1**.

5.1 Noise Monitoring Results

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

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

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

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

5.1.4 Noise monitoring results measured in this reporting period are reviewed and summarized. Details of noise monitoring results and graphical presentation can be referred in **Appendix 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	Footbridge for Ex-Harbour Road Sports Centre

5.1.6 Two limit level exceedances were recorded at M1a – Footbridge for Ex-Harbour Road Sports Centre on 03 and 22 November 2017.

- 5.1.7 No construction work was conducted by Contract HK/2009/01 on 03 November 2017 around the concerned location during the time of measurement while non WDII-CWB excavation works immediately next to the monitoring station was observed as the major noise contribution during monitoring. As such, the exceedance was considered as non-Project related to Contract HK/2009/01.
- 5.1.8 No construction work was conducted by Contract HK/2009/01 on 22 November 2017 around the concerned location during the time of measurement while non WDII-CWB breaking works immediately next to the monitoring station was observed as the major noise contribution during monitoring. As such, the exceedance was considered as non-Project related to Contract HK/2009/01.
- 5.1.9 Despite excavation works was conducted by Contract HK/2009/02 on 03 November 2017 around the concerned location during the time of measurement while non WDII-CWB excavation works immediately next to the monitoring station was observed as the major noise contribution during monitoring with mechanical operation directly next to noise monitoring position. As such, the exceedance was considered as non-Project related to Contract HK/2009/02.
- 5.1.10 Despite backfilling works was conducted by Contract HK/2009/02 on 22 November around the concerned location with a few, minor and non-continuous breaking actions under Contractor observed during measurement, acoustic screening of breaking tip was implemented by Contract HK/2009/02 and no major noise contribution was observed from the works. Meanwhile, non WDII-CWB breaking works immediately next to the monitoring station was observed as the major noise contribution during monitoring. As such, the exceedance was considered as non-Project related to Contract HK/2009/02. Nevertheless, the Contractor of HK/2009/02 was reminded to maintain adequate noise mitigation measure around the concerned location to avoid potential cumulative impact.
- 5.1.11 Noise monitoring results measured in this reporting period are reviewed and summarized. Details of noise monitoring results and graphical presentation can be referred in **Appendix 5.2**.
Contract no. HY/2009/15 – Central-Wanchai Bypass – Tunnel (Causeway Bay Typhoon Shelter Section) under FEP-06/364/2009/A
- 5.1.12 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
M3a	Tung Lo Wan Fire Station

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

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

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

5.1.15 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

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

5.1.17 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**. Details of the Notification of Exceedance can be referred in **Appendix 6.2**.

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

5.1.18 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
M3a	Tung Lo Wan Fire Station

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

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

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

5.1.21 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

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

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

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

5.2 Real Time Noise Monitoring Results

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

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

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

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

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

5.2.7. Limit level exceedance was recorded at RTN1-FEHD Hong Kong Transport Section Whitfield Depot on 17, 18 and 20 November 2017 was recorded in the reporting period. After checking with Contractor of HY/2009/19, concrete breaking works for FEHD Depot structure were conducted during the monitoring period on 17 November 2017 while no noise mitigation measures were provided. Upon identification of the noise concern, the Contractor was immediately notified of the observation and remedial actions including provision of temporary noise barrier was implemented by the Contractor on 18 November 2017.

Further exceedances were recorded on 18 and 20 November 2017 and it was further evaluated that as the concerned breaking works is located in close proximity to the monitoring location for the affected sensitive receiver the temporary noise barrier deployed was inadequate in mitigating the noise impact. Therefore the concerned breaking works was suspended on 20 November 2017 and the Contractor has undertaken further remedial action to review the construction operation and alternative demolition method with wire cut for the concrete structure was adopted to reduce the noise impact. After adaptation of the alternative demolition method, no further exceedance was recorded.

5.2.8. No limit level exceedance was recorded at RTN2a- Hong Kong Electric Centre was recorded in the reporting period.

5.2.9. No limit level exceedance was recorded at RTN3- Yu Lee Mo Fan Memorial School was recorded in the reporting period.

5.2.10. No limit level exceedance was recorded at RTN4- Causeway Bay Community Centre was recorded in the reporting period.

5.2.11. 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.**

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

5.2.12. 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

**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.*

- 5.2.13. Limit level exceedance was recorded at RTN1-FEHD Hong Kong Transport Section Whitfield Depot on 17, 18 and 20 November 2017 was recorded in the reporting period. After checking with Contractor of HY/2011/08, no construction works was undertaken by Contract HY/2011/08 while cable laying works was conducted by Hong Kong Electric Centre and no major noise concern was considered. Therefore, the exceedances were considered not related to Project works under HY/2011/08.
- 5.2.14. No limit level exceedance was recorded at RTN2a- Hong Kong Electric Centre was recorded during in the reporting period.
- 5.2.15. No limit level exceedance was recorded at RTN4- Causeway Bay Community Centre were recorded in the reporting period.

5.3 Air Quality Monitoring Results

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

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

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

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

5.3.2 No exceedance was recorded in the reporting period.

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

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 One 1hr TSP limit level exceedance was recorded at CMA5b – Pedestrian Plaza on 01 November 2017.

5.3.6 No construction works was undertaken around the monitoring location on the monitoring date under Contractor of HK/2009/01 on 01 November 2017 and no particular observation regarding air quality impact was observed during sampling. Nevertheless, non WDII-CWB Project construction activities was observed opposite to the monitoring station on the monitoring date. Meanwhile, it was reported that the ambient air quality was adversely affected by accumulation of air pollutant influenced by the meteorological condition on the monitoring date. In view of the above, the exceedance was considered to be non-project related and generally contributed by ambient air quality condition

5.3.7 Two 1hr TSP action level exceedances and one 1hr TSP limit level exceedances were recorded at CMA5b – Pedestrian Plaza on 24 November 2017.

5.3.8 No construction works was undertaken around the monitoring location on the monitoring date under Contractor of HK/2009/01 on 24 November 2017 and no particular observation regarding air quality impact was observed during sampling. Nevertheless, non WDII-CWB Project construction activities was observed opposite to the monitoring station on the monitoring date. Meanwhile, according to the EPD monitoring record, highest pollutant concentration was recorded during the monitoring date at Causeway Bay monitoring station across a seven day periods. In view of the above, the exceedance was considered to be non-project related and generally contributed by ambient air quality condition.

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**.

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

5.3.10 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

5.3.11 No exceedance was recorded in the reporting period.

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

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

5.3.13 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

5.3.14 No exceedance was recorded in the reporting period.

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

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

5.3.16 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	Harbour Grand Hotel Boundary Wall
CMA2a	Causeway Bay Community Centre

5.3.17 No exceedance was recorded in the reporting period.

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

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

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

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

Station	Description
CMA5b	Pedestrian Plaza

5.3.20 One 1hr TSP limit level exceedance was recorded at CMA5b – Pedestrian Plaza on 01 November 2017.

5.3.21 Road and drains works was undertaken under Contract HK/2012/08 on 01 November 2017 around the monitoring location on the monitoring date and no particular observation regarding air quality impact was observed during sampling. Mitigation measure including water spraying for haul road was generally implemented. Nevertheless, non WDII-CWB Project construction activities was observed opposite to the monitoring station on the monitoring date. Meanwhile, it was reported that the ambient air quality was adversely affected by accumulation of air pollutant influenced by the meteorological condition on the monitoring date. In view of the above, the exceedance was considered to be non-project related and potentially contributed by ambient air quality condition.

5.3.22 Two 1hr TSP action level exceedances and one 1hr TSP limit level exceedances were recorded at CMA5b – Pedestrian Plaza on 24 November 2017.

5.3.23 Road and drain construction works was undertaken under Contract HK/2012/08 on 24 November 2017 around the monitoring location on the monitoring date and no particular

observation regarding air quality impact was observed during sampling. Mitigation measure including water spraying for haul road was generally implemented. Nevertheless, non WDII-CWB Project construction activities was observed opposite to the monitoring station on the monitoring date. Meanwhile, according to the EPD monitoring record, highest pollutant concentration was recorded during the monitoring date at Causeway Bay monitoring station across a seven days period. In view of the above, the exceedance was considered to be non-project related and potentially contributed by ambient air quality condition.

- 5.3.24 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. HY/2010/08 – Central-Wanchai Bypass –Wanchai Bypass Tunnel (Slip Road 8 Section) under FEP-12/364/2009/D

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

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

Station	Description
CMA3a	CWB PRE Site Office

- 5.3.26 No exceedance was recorded in the reporting period.
- 5.3.27 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. HY/2011/08 – Central - Wan Chai Bypass (CWB) – Tunnel Buildings, Systems and Fittings, and Works Associated with Tunnel Commissioning

- 5.3.28 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	Harbour Grand Hotel Boundary Wall
CMA2a	Causeway Bay Community Centre
CMA5b	Pedestrian Plaza

- 5.3.29 One 1hr TSP limit level exceedance was recorded at CMA5b – Pedestrian Plaza on 01 November 2017.
- 5.3.30 Formwork erection, lifting, and scaffolding at MVB were undertaken around the monitoring location under Contract HY/2011/08 on 01 November 2017 and no particular observation regarding air quality impact was observed during sampling and mitigation measure including dampening of roof top and haul road were generally implemented. Nevertheless, non WDII-CWB Project construction activities was observed opposite to the monitoring station on the monitoring date. Meanwhile, it was reported that the ambient air quality was adversely affected by accumulation of air pollutant influenced by the meteorological condition on the monitoring date. In view of the above, the exceedance was considered to be non-project related and potentially contributed by ambient air quality condition.
- 5.3.31 Two 1hr TSP action level exceedances and one 1hr TSP limit level exceedances were recorded at CMA5b – Pedestrian Plaza on 24 November 2017.
- 5.3.32 Only waterproofing works and screeding works at MVB were undertaken around the monitoring location under Contract HY/2011/08 on 24 November 2017 and no particular observation regarding air quality impact was observed during sampling and mitigation measure including dampening of roof top and haul road were generally implemented. Nevertheless, non WDII-CWB Project construction activities was observed opposite to the monitoring station on the monitoring date. Meanwhile, according to the EPD monitoring record, highest pollutant concentration was recorded during the monitoring date at Causeway Bay monitoring station across a seven days period. In view of the above, the exceedance was considered to be non-project related and potentially contributed by ambient air quality condition.
- 5.3.33 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 period. 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, m ³	29.88	108044.195	TKO137, TM38
Inert C&D materials recycled, m ³	Nil	98512.03	N/A
Non-inert C&D materials disposed, m ³	Nil	5313.62	SENT Landfill
Non-inert C&D materials recycled, kg	Nil	1285746	N/A
Chemical waste disposed, kg	Nil	10400	N/A
Marine Sediment (Type 1 – Open Sea Disposal), m ³	Nil	11527	South of Cheung Chau
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal), m ³	Nil	16261	East of Cha Chau South Brothers

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

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

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, m ³	45	522489.21	TKO137 / TM 38
Inert C&D materials recycled, m ³	Nil	46520	N/A
Non-inert C&D materials disposed, m ³	62.3	5478.52	SENT Landfill
Non-inert C&D materials recycled, m ³	Nil	N/A	N/A
Chemical waste disposed, kg	Nil	17718	N/A
Marine Sediment (Type 1 – Open Sea Disposal) , m ³	Nil	65663	South Cheung Chau

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

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

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, m ³	52.64	1415557.84	T.K.O. 137, TM 38
Inert C&D materials recycled, m ³	Nil	58787.05	N/A
Non-inert C&D materials disposed, m ³	95.18	4514.48	SENT Landfill
Non-inert C&D materials recycled, ton	Nil	878.37	N/A
Chemical waste disposed, kg	Nil	6772	N/A

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

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

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

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

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

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, ton	19253.34	760414.20	TM38
Inert C&D materials recycled, ton	Nil	82349.7	N/A
Non-inert C&D materials disposed, ton	97.85	6431.15	SENT Landfill
Non-inert C&D materials recycled, ton	Nil	565.63	N/A
Chemical waste disposed, kg	Nil	10.9	N/A
Marine Sediment (Tunnel) (Type-1 Open Sea Disposal), m³	Nil	20737.96	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

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

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

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, m ³	77	183582	TKO 137
	126	116941	TM38
Inert C&D materials recycled, m ³	Nil	Nil	N/A
Non-inert C&D materials disposed, m ³	125	8657	SENT
Non-inert C&D materials recycled, m ³	Nil	Nil	N/A
Chemical waste disposed, kg	Nil	Nil	N/A
Marine sediment (Type 1) disposal, m ³	Nil	3145	South of Cheung Chau / East of Sha Chau / South of The Brothers

Remarks: The quantity of inert C&D material disposed, recycled, non-inert C&D material disposed, recycled are reported up to calendar month of October 2017.

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

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

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

Waste Type*	Quantity this month	Cumulative-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m ³	2172.527	589455.12	TM 38/ CW
	Nil	262656.6	WENT
	Nil	82911.8	SENT
	Nil	72704.53	TKO area 137
Inert C&D materials recycled, m ³	Nil	Nil	N/A
Non-inert C&D materials disposed, m ³	80.289	5742.36	SENT / WENT
Non-inert C&D materials recycled, m ³	Nil	Nil	N/A
Chemical waste disposed, kg	Nil	1431	N/A
Type 1 – Open Sea Disposal, m ³	Nil	16368.4	East Sha Chau/ South Brothers Island
Type 2 – Confined Marine disposal, m ³	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-11/364/2009/E

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

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

Waste Type*	Quantity this month	Cumulative-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m ³	218.03	1949.97	CWPF & TKO137
Inert C&D materials recycled, m ³	Nil	Nil	N/A
Non-inert C&D materials disposed, m ³	381.98	4726.31	SENT
Non-inert C&D materials recycled, ton	Nil	31.72	N/A
Chemical waste disposed, kg	Nil	3800	N/A

6 COMPLIANCE AUDIT

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

6.1 Noise Monitoring

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

6.1.1. No exceedance was recorded in the reporting period.

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. Two limit level exceedances were recorded at M1a – Footbridge for Ex-Harbour Road Sports Centre on 03 and 22 November 2017.

6.1.3. No construction work was conducted by Contract HK/2009/01 on 03 November 2017 around the concerned location during the time of measurement while non WDII-CWB excavation works immediately next to the monitoring station was observed as the major noise contribution during monitoring. As such, the exceedance was considered as non-Project related to Contract HK/2009/01.

6.1.4. No construction work was conducted by Contract HK/2009/01 on 22 November 2017 around the concerned location during the time of measurement while non WDII-CWB breaking works immediately next to the monitoring station was observed as the major noise contribution during monitoring. As such, the exceedance was considered as non-Project related to Contract HK/2009/01.

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

6.1.5. Two limit level exceedances were recorded at M1a – Footbridge for Ex-Harbour Road Sports Centre on 03 and 22 November 2017.

6.1.6. Despite excavation works was conducted by Contract HK/2009/02 on 03 November 2017 around the concerned location during the time of measurement while non WDII-CWB excavation works immediately next to the monitoring station was observed as the major noise contribution during monitoring with mechanical operation directly next to noise monitoring position. As such, the exceedance was considered as non-Project related to Contract HK/2009/02.

6.1.7. Despite backfilling works was conducted by Contract HK/2009/02 on 22 November around the concerned location with a few, minor and non-continuous breaking actions under Contractor observed during measurement, acoustic screening of breaking tip was implemented by Contract HK/2009/02 and no major noise contribution was observed from the works. Meanwhile, non WDII-CWB breaking works immediately next to the monitoring station was observed as the major noise contribution during monitoring. As such, the exceedance

was considered as non-Project related to Contract HK/2009/02. Nevertheless, the Contractor of HK/2009/02 was reminded to maintain adequate noise mitigation measure around the concerned location to avoid potential cumulative impact.

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

6.1.8. No exceedance was recorded in the reporting period.

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

6.1.9. No exceedance was recorded in the reporting period.

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

6.1.10. No exceedance was recorded in the reporting period.

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

6.1.11. No exceedance was recorded in the reporting period.

Real Time Noise Monitoring

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

6.1.12. Limit level exceedance was recorded at RTN1-FEHD Hong Kong Transport Section Whitfield Depot on 17, 18 and 20 November 2017 was recorded in the reporting period. After checking with Contractor of HY/2009/19, concrete breaking works for FEHD Depot structure were conducted during the monitoring period on 17 November 2017 while no noise mitigation measures were provided. Upon identification of the noise concern, the Contractor was immediately notified of the observation and remedial actions including provision of temporary noise barrier was implemented by the Contractor on 18 November 2017.

Further exceedances were recorded on 18 and 20 November 2017 and it was further evaluated that as the concerned breaking works is located in close proximity to the monitoring location for the affected sensitive receiver the temporary noise barrier deployed was inadequate in mitigating the noise impact. Therefore the concerned breaking works was suspended on 20 November 2017 and the Contractor has undertaken further remedial action to review the construction operation and alternative demolition method with wire cut for the concrete structure was adopted to reduce the noise impact. After adaptation of the alternative demolition method, no further exceedance was recorded.

6.1.13. No limit level exceedance was recorded at RTN2a- Hong Kong Electric Centre was recorded in the reporting period.

6.1.14. No limit level exceedance was recorded at RTN3- Yu Lee Mo Fan Memorial School was recorded in the reporting period.

6.1.15. No limit level exceedance was recorded at RTN4- Causeway Bay Community Centre was recorded in the reporting period.

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

6.1.16. Limit level exceedance was recorded at RTN1-FEHD Hong Kong Transport Section Whitfield Depot on 17, 18 and 20 November 2017 was recorded in the reporting period. After checking with Contractor of HY/2011/08, no construction works was undertaken by Contract HY/2011/08 while cable laying works was conducted by Hong Kong Electric Centre and no major noise concern was considered. Therefore, the exceedances were considered not related to Project works under HY/2011/08.

6.1.17. No limit level exceedance was recorded at RTN2a- Hong Kong Electric Centre was recorded during in the reporting period.

6.1.18. No limit level exceedance was recorded at RTN4- Causeway Bay Community Centre were recorded in the reporting period.

6.2 Air Quality Monitoring

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

6.2.1. No exceedance was recorded in the reporting period.

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

6.2.2. One 1hr TSP limit level exceedance was recorded at CMA5b – Pedestrian Plaza on 01 November 2017.

6.2.3. No construction works was undertaken around the monitoring location on the monitoring date under Contractor of HK/2009/01 on 01 November 2017 and no particular observation regarding air quality impact was observed during sampling. Nevertheless, non WDII-CWB Project construction activities was observed opposite to the monitoring station on the monitoring date. Meanwhile, it was reported that the ambient air quality was adversely affected by accumulation of air pollutant influenced by the meteorological condition on the monitoring date. In view of the above, the exceedance was considered to be non-project related and generally contributed by ambient air quality condition

6.2.4. Two 1hr TSP action level exceedances and one 1hr TSP limit level exceedances were recorded at CMA5b – Pedestrian Plaza on 24 November 2017.

6.2.5. No construction works was undertaken around the monitoring location on the monitoring date under Contractor of HK/2009/01 on 24 November 2017 and no particular observation regarding air quality impact was observed during sampling. Nevertheless, non WDII-CWB Project construction activities was observed opposite to the monitoring station on the monitoring date. Meanwhile, according to the EPD monitoring record, highest pollutant concentration was recorded during the monitoring date at Causeway Bay monitoring station across a seven day periods. In view of the above, the exceedance was considered to be non-project related and generally contributed by ambient air quality condition.

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

6.2.6. No exceedance was recorded in the reporting period.

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

6.2.7. No exceedance was recorded in the reporting period.

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

6.2.8. No exceedance was recorded in the reporting period.

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

- 6.2.9. One 1hr TSP limit level exceedance was recorded at CMA5b – Pedestrian Plaza on 01 November 2017.
- 6.2.10. Road and drains works was undertaken under Contract HK/2012/08 around the monitoring location on the monitoring date and no particular observation regarding air quality impact was observed during sampling. Mitigation measure including water spraying for haul road was generally implemented. Nevertheless, non WDII-CWB Project construction activities was observed opposite to the monitoring station on the monitoring date. Meanwhile, it was reported that the ambient air quality was adversely affected by accumulation of air pollutant influenced by the meteorological condition on the monitoring date. In view of the above, the exceedance was considered to be non-project related and potentially contributed by ambient air quality condition.
- 6.2.11. Two 1hr TSP action level exceedances and one 1hr TSP limit level exceedances were recorded at CMA5b – Pedestrian Plaza on 24 November 2017.
- 6.2.12. Road and drain construction works was undertaken under Contract HK/2012/08 around the monitoring location on the monitoring date and no particular observation regarding air quality impact was observed during sampling. Mitigation measure including water spraying for haul road was generally implemented. Nevertheless, non WDII-CWB Project construction activities was observed opposite to the monitoring station on the monitoring date. Meanwhile, according to the EPD monitoring record, highest pollutant concentration was recorded during the monitoring date at Causeway Bay monitoring station across a seven days period. In view of the above, the exceedance was considered to be non-project related and potentially contributed by ambient air quality condition.

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

- 6.2.13. No exceedance was recorded in the reporting period.

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

- 6.2.1 One 1hr TSP limit level exceedance was recorded at CMA5b – Pedestrian Plaza on 01 November 2017.
- 6.2.2 Formwork erection, lifting, and scaffolding at MVB were undertaken around the monitoring location under Contract HY/2011/08 on the monitoring date and no particular observation regarding air quality impact was observed during sampling and mitigation measure including dampening of roof top and haul road were generally implemented. Nevertheless, non WDII-CWB Project construction activities was observed opposite to the monitoring station on the monitoring date. Meanwhile, it was reported that the ambient air quality was adversely affected by accumulation of air pollutant influenced by the meteorological condition on the

- monitoring date. In view of the above, the exceedance was considered to be non-project related and potentially contributed by ambient air quality condition.
- 6.2.3 Two 1hr TSP action level exceedances and one 1hr TSP limit level exceedances were recorded at CMA5b – Pedestrian Plaza on 24 November 2017.
- 6.2.4 Only waterproofing works and screeding works at MVB were undertaken around the monitoring location under Contract HY/2011/08 on 24 November 2017 and no particular observation regarding air quality impact was observed during sampling and mitigation measure including dampening of roof top and haul road were generally implemented. Nevertheless, non WDII-CWB Project construction activities was observed opposite to the monitoring station on the monitoring date. Meanwhile, according to the EPD monitoring record, highest pollutant concentration was recorded during the monitoring date at Causeway Bay monitoring station across a seven days period. In view of the above, the exceedance was considered to be non-project related and potentially contributed by ambient air quality 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 in the reporting period. The observations and recommendations made in each individual site audit session were presented in Section 8.
- 6.3.2 Limit level exceedance was recorded at RTN1-FEHD Hong Kong Transport Section Whitfield Depot on 17, 18 and 20 November 2017 was recorded in the reporting period. After checking with Contractor of HY/2009/19, concrete breaking works for FEHD Depot structure were conducted during the monitoring period on 17, 18 and 20 November 2017 without effective noise mitigation measure.. As such, the exceedances recorded were considered as related to the Project works under Contact HY/2009/19.

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

- 6.4.1 Upon identification of the noise concern, the Contractor was immediately notified of the observation and remedial actions including provision of temporary noise barrier was implemented by the Contractor on 18 November 2017. Nevertheless, further exceedances were recorded on 18 an 20 November 2017 and it was further evaluated that as the concerned breaking works is located in close proximity to the monitoring location for the affected sensitive receiver. Therefore the concerned breaking works was suspended on 20 November 2017 and the Contractor has undertaken further remedial action to review the construction operation and alternative demolition method with wire cut for the concrete structure was adopted to reduce the noise impact. After adaptation of the alternative demolition method, no further exceedance was recorded.

7 CUMULATIVE CONSTRUCTION IMPACT DUE TO THE CONCURRENT PROJECTS

- 7.0.1. According to Condition 3.4 of the EP-364/2009/E, this section addresses the relevant cumulative construction impact due to the concurrent activities of the current projects including the Central Reclamation Phase III (CRIII), Wan Chai Development Phase II (WDII), Central-WanChai Bypass (CWB), Island Eastern Corridor Link projects (IECL) and Wan Chai Development Phase II – Central – Wan Chai Bypass at Wan Chai East (CWB Tunnel).
- 7.0.2. According to the Final EM&A Report of Central Reclamation Phase III (CRIII) for Contract HK 12/02, the major construction activities were completed by end of January 2014 and no construction activities were undertaken thereafter and the water quality monitoring was completed in October 2011. As such, it is considered that there were no cumulative construction impact due to the concurrent activities of the current projects with the Central Reclamation Phase III (CRIII) undertaken by contractor HK12/02 in the reporting period.
- 7.0.3. According to the construction programme of Central-Wanchai Bypass at Wanchai West at the Central Reclamation Phase III area include road and drain works, backfilling works and reinstatement of culvert and cooling mains and reinstatement of planter at P1 road and trimming of rock level were performed in November 2017 reporting period. As no project related exceedance were recorded during the reporting period, cumulative construction impact due to the concurrent activities of the current projects with the Central Reclamation Phase III (CRIII) was considered as insignificant.
- 7.0.4. According to the construction programme of Wan Chai Development Phase II, Central-Wan Chai Bypass and Island Eastern Corridor Link projects, the major construction activities under Wan Chai Development Phase II were road and drains construction, tunnel construction and backfilling works at Wan Chai West and Wan Chai East. The major construction activities under Central-Wan Chai Bypass and Island Eastern Corridor Link Projects were drainage works and ventilation building construction at Central; temporary reclamation removal works at Causeway Bay, road works and side wall construction at Victoria Park; bridge construction, piling works, foundation works and building construction at North Point area in the reporting period. In addition, other non-Wan Chai Development Phase II, Central-Wan Chai Bypass and Island Eastern Corridor Link projects was observed undertaken at Wan Chai North and North Point area.
- 7.0.5. As relevant site mitigation measures for air quality and construction noise were implemented, no significant air quality impact and noise impact from construction activities was concluded in the reporting period. Besides, no project related exceedance was recorded during the air quality and noise environmental monitoring events in the reporting period. Thus, it is evaluated that the cumulative construction impact from the concurrent projects including Central Reclamation Phase III (CRIII), Wan Chai Development Phase II (WDII), Central-WanChai Bypass (CWB), Island Eastern Corridor Link projects (IECL) was insignificant.

8 ENVIRONMENTAL SITE AUDIT

8.0.1. During this reporting period, 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.

8.0.2. Site inspections for Contract no. HY/2009/15 were carried out during this reporting period. No observation was found in the reporting period.

8.0.3. Site inspections for Contract no. HY/2009/18 were carried out during this reporting period. No observation was found in the reporting period.

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

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

Item	Date	Observations	Action taken by Contractor	Completion date
171122_1	22 Nov 2017	Damaged temporary noise barriers shall be repair (Oil Street)	Damaged temporary noise barriers was repaired	Completion as observed on 29 November 2017

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 period.

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
171102_01	3 Nov 2017	Water spraying shall be implement frequently at Portion 5.	Water spraying has been provided for dusty surface	Completion as observed on 09 November 2017
171109_01	9 Nov 2017	Wheel washing at Gate 6 shall be strengthen to avoid muddy trail on the public road.	Wheel washing operation has been improved and no further muddy trail was observed	Completion as observed on 16 November 2017
171116_01	16 Nov 2017	Contractor shall ensure the dust mitigation to breaking works (Hung Hing Road Temporary Bridge)	No further dust emission was observed	Completion as observed on 21 November 2017

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
171107_01	7-Nov-17	The condition of site hoarding shall be improve to avoid potential dust emission (Lung King Street)	The condition of site hoarding was improved	Completion as observed on 14 November 2017

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

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

Item	Date	Observations	Action taken by Contractor	Completion date
171122_1	22-Nov-17	Contractor shall provide regular maintenance to excavator to avoid dark smoke emission (Victoria Park)	The concerned excavator was repaired and no further dark smoke emission was observed	Completion as observed on 29 November 2017

8.0.9. Site inspections for Contract no. HY/2011/08 were carried out during this reporting period. The results of these inspections and outcomes are summarized in Table 8.8.

9 COMPLAINTS, NOTIFICATION OF SUMMONS AND PROSECUTION

9.0.1. Two environmental complaints were received in the reporting period.

9.0.2. First ICC complaint was referred by RSS to the ET on 13 November 2017 (CASE Ref: #2-4320996036). The complainant reported that noise was emanated from construction works conducted opposite to City Garden Block 9 during morning hours from 0300hrs to 0500hrs and metal hammering noise was still emanated at night time causing nuisance to nearby residence.

ET confirmed with the Resident Site Staff that night work including nut fixing works for post supporting bracket of noise enclosure was conducted under Contract HY/2009/19 at IECL westbound bridge Pier 40 around the concerned location from 0300hrs to 0500 hrs on 07 November 2017. Crane lorry for panel removal and hand tools for fixing of nuts were deployed with relevant Construction Noise Permit GW-RS0837-17. No construction works was conducted under Contract HY/2009/19 from 1900hrs to 2300hrs on 07 November 2017. Night work including nut fixing works for post supporting bracket of noise enclosure was conducted under Contract HY/2009/19 at IECL westbound bridge Pier 38 around the concerned location from 0300hrs to 0500hrs on 08 November 2017. Crane lorry for panel removal and hand tools for fixing of nuts were deployed with relevant Construction Noise Permit GW-RS0837-17.

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

9.0.3. Second EPD complaint (Case ref: H08/RS/00037826-17) was referred to the ET on 24 November 2017. The complainant reported that noise was emanated from construction works conducted at around 2200hrs at North Point New Reclamation Area, Oil Street, North Point.

ET confirmed with the Resident Site Staff that welding works to the steel strut at Approach Ramp Phase 2 Portion X) were conducted under Contract HY/2009/19 on 20 November 2017 and total 3 nos. of welding machines were operated until 2130hrs. No works was conducted between 2130hrs to 2230hrs on 20 November 2017. No construction works was conducted under HY/2011/08 on 20 November 2017 between 2130hrs to 2230hrs. Welding works to the steel strut at Approach Ramp Phase 2 (Portion X) were conducted under Contract HY/2009/19 on 20 November 2017 and total 3 nos. of welding machines were operated until 2130hrs. No works was conducted between 2130hrs to 2230hrs on 20 November 2017. Meanwhile, no construction works was conducted under HY/2011/08 on 20 November 2017 between 2130hrs to 2230hrs.

Nevertheless, the Contractor of HY/2011/08 and the Contractor of HY/2009/19 were reminded to maintain proper site control and all construction activities to be conducted during restricted hours shall follow relevant Construction Noise Permit.

- 9.0.4. The details of cumulative complaint log and updated summary of complaints are presented in **Appendix 9.1**
- 9.0.5. 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
October 2017	2
September 2010 – October 2017	86
Total	88

Table 9.2 Cumulative Statistics on Successful Prosecutions

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

10 CONCLUSION

10.0.1. The EM&A programme was carried out in accordance with the EM&A Manual requirements, minor alterations to the programme proposed were made in response to changing circumstances.

10.0.2. The scheduled construction activities and the recommended mitigation measures for the coming month are listed in **Table 10.1**. The construction programmes of individual contracts are provided in [Appendix 10.1](#).

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

Contract No.	Key Construction Works	Recommended Mitigation Measures
HY/2009/15	<ul style="list-style-type: none"> Nil 	<ul style="list-style-type: none"> Dust control during dust generating activities and covering for stockpile stored on site. Provide protection works and adequate drainage system to ensure no direct discharge into public drainage system or the nearby water. Maintain regular cleaning of floating refuses within construction area.
HY/2009/18	<ul style="list-style-type: none"> Landscaping works Maintenance works 	<ul style="list-style-type: none"> Dust control during dust generating activities Provide protection works to ensure no runoff out of site area or direct discharge into public drainage system.

<p>HY/2009/19</p>	<ul style="list-style-type: none"> • Approach ramp ELS and excavation works. • Approach ramp structure Construction. • Bridge Construction & installation of enclosure. • Retaining wall construction. • FEHD Metal Roof Construction & re-provision including drainage works. • Hing Fat Street road and drainage works. • Oil Street drainage works. • Installation of skin parapet on TB bridge at Pier 15-17. • Landscape deck pile cap foundation works continues 	<ul style="list-style-type: none"> • Noise level shall be controlled by reducing the breaking operation rate. • Noise barrier shall be implemented • Dust control during dust generating works • Provide protection works and adequate drainage system to ensure no direct discharge into public drainage system or the sea.
<p>HK/2009/01</p>	<ul style="list-style-type: none"> • Nil 	<ul style="list-style-type: none"> • Provide protection works and adequate drainage system to ensure no direct discharge into public drainage system or the sea. • Dust control during dust generating works • Noise mitigation measures during breaking works

<p>HK/2009/02</p>	<ul style="list-style-type: none"> • Rectification works of the flooring under Temporary Covered Walkway and the floor inside rooms underneath staircase ST-01 and construction of EVA at Ferry Pier. • Remaining remedial works of water leakage. • Removal of temporary Hung Hing Road Bridge • Backfilling works before removal of ELS for Grid 8-15 • Removal of remaining ELS at layer S1 and S1a • Pre-fabrication of seawall blocks • Preparation works for box culver 'O' • Preparation works for removal of TWCR4 • Pending for remaining remedial works of water leakage. • Construction of CMS at caisson. • Construction of surface channel at portion 5. • Construction of remaining Type 4 covered walkway • Backfilling works at Portion 5 up to updated finish level • Remedial works of tunnel wall, base slab and OHVD inside tunnel. • Drainage cleaning and inspection inside tunnel. • Sewage works at Wan Shing Street 	<ul style="list-style-type: none"> • Dust control during dust generating works • Proper maintenance boundary surface runoff protection and water treatment facilities to avoid potential runoff related impact. • Provision of protection measures to ensure no runoff out of site area or direct discharge into public drainage system.
<p>HK/2012/08</p>	<ul style="list-style-type: none"> • Construction of Slip Road 1 • Construction of drainage • Asphalt paving of A2, A4 and A5 Roads 	<ul style="list-style-type: none"> • Dust control during dust generating works • Provide protection works and adequate drainage system to ensure no direct discharge into public drainage system.

HY/2010/08	<ul style="list-style-type: none"> • Tree protection works next to existing BGO • Drainage improvement works • Utility diversion works • Retaining wall works • ELS works • Construction works for subway extension 	<ul style="list-style-type: none"> • Dust control during dust generating works and stockpile stored on site. • Appropriate measures should be taken to ensure adequate protections are provided for trees being transplanted and retained on site. • Provision of protection to ensure no runoff out of site area or direct discharge into public drainage system.
HY/2011/08	<ul style="list-style-type: none"> • Construction of Ventilation Buildings, inclusive of Administration Building, Central Ventilation Building, East Ventilation Shaft/Building, West Ventilation Building • Construction of Tunnel Thermal Barrier • Installation of Electricals and Mechanicals • Installation of Tunnel Features 	<ul style="list-style-type: none"> • 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.

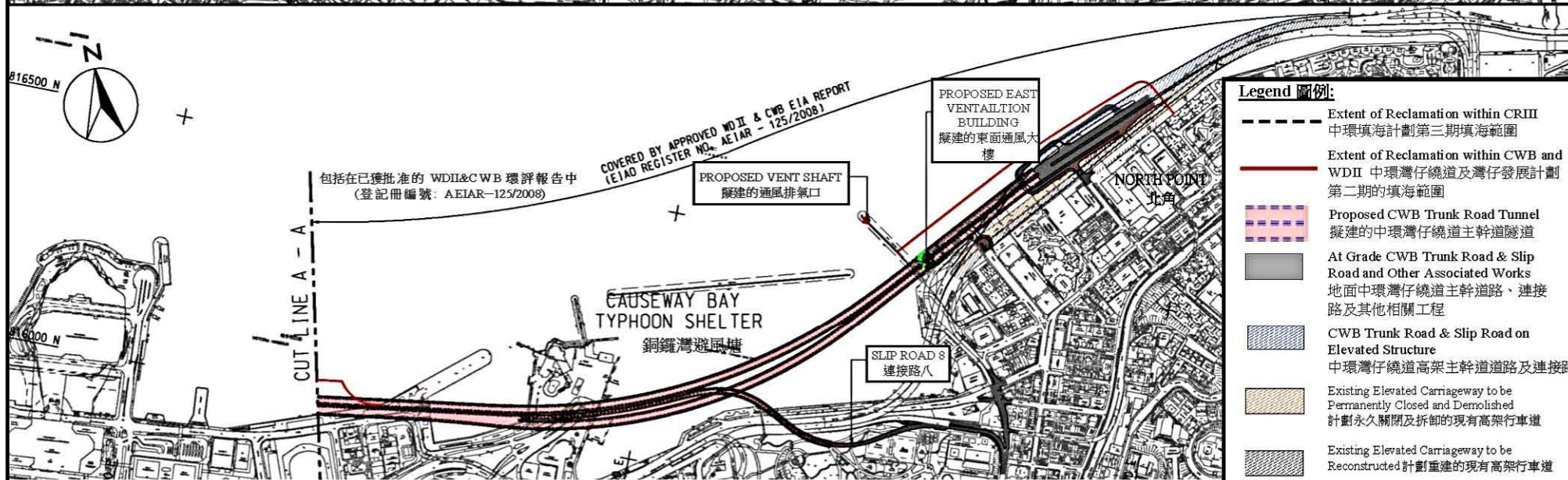
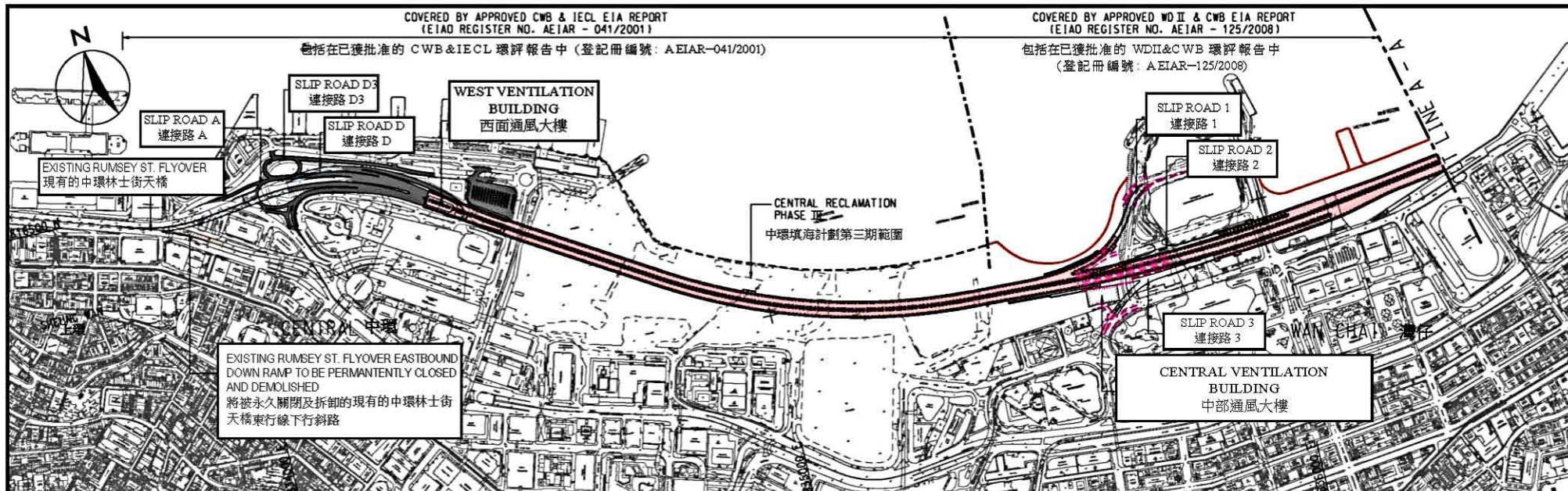
10.0.4. The construction works of Contract no. HY/2009/17 - Advance piling works at Whitfield Depot under FEP-03/264/2009 was completed, and the FEP was surrendered by the Contractor and found in order by EPD on 25 April 2013.

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



Project Title: Central-Wanchai Bypass (CWB) Including Its Road Tunnel and Slip Roads
工程項目名稱: 中環灣仔繞道包括其行車隧道及連接路

Environmental Permit No.: EP-364/2009/E
環境許可證編號: EP-364/2009/E

Figure 1: Location of the Project
圖 1: 工程項目位置

(This figure was prepared based on Figure 1.1 of the Application for Environmental Permit (Application No.: AEP-364/2009))
(本圖是根據環境許可證的申請(申請書編號 AEP-364/2009 圖 1.1 編製))



Figure 2.2

Project Organization Chart



Project Organization Chart

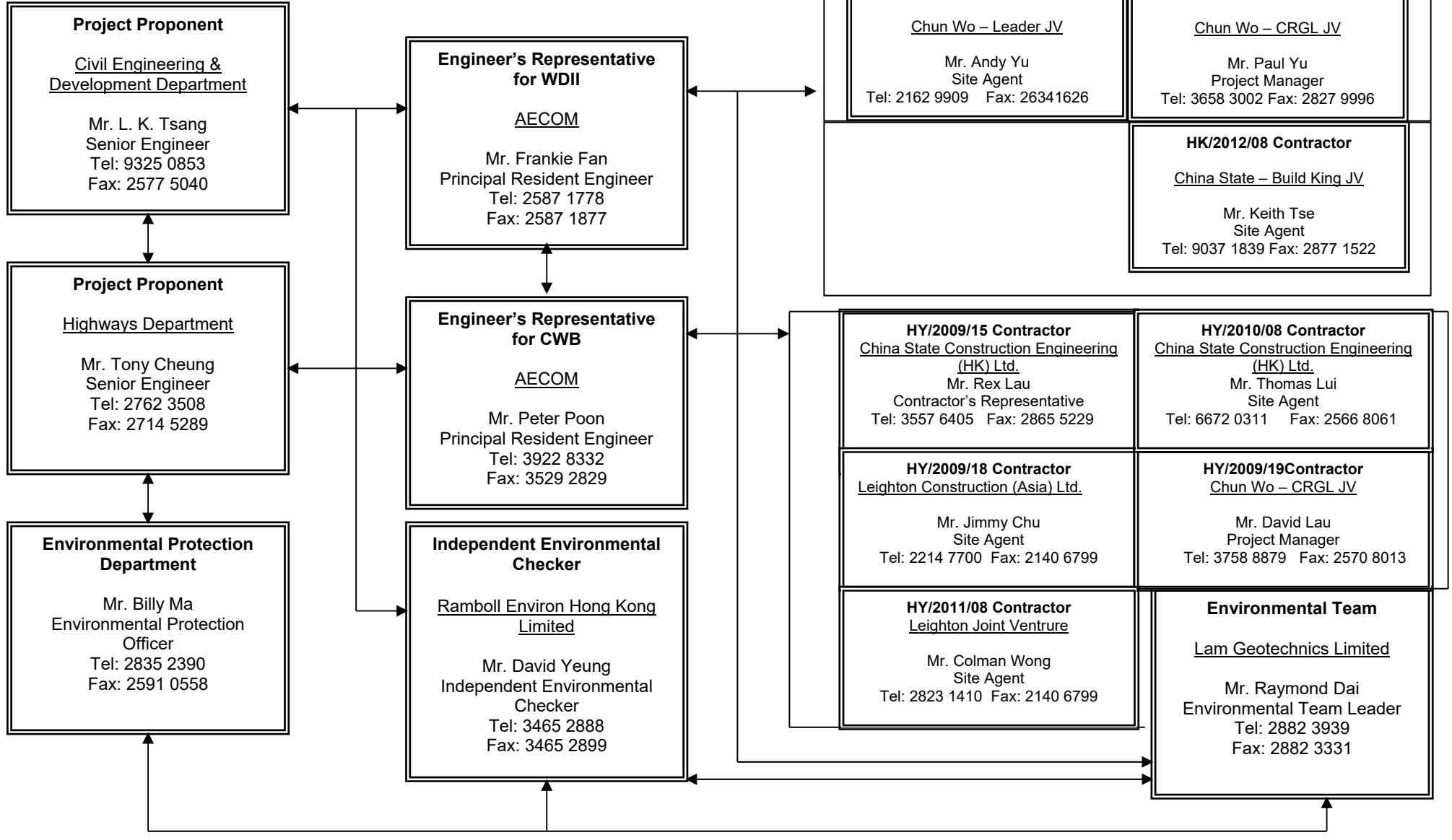


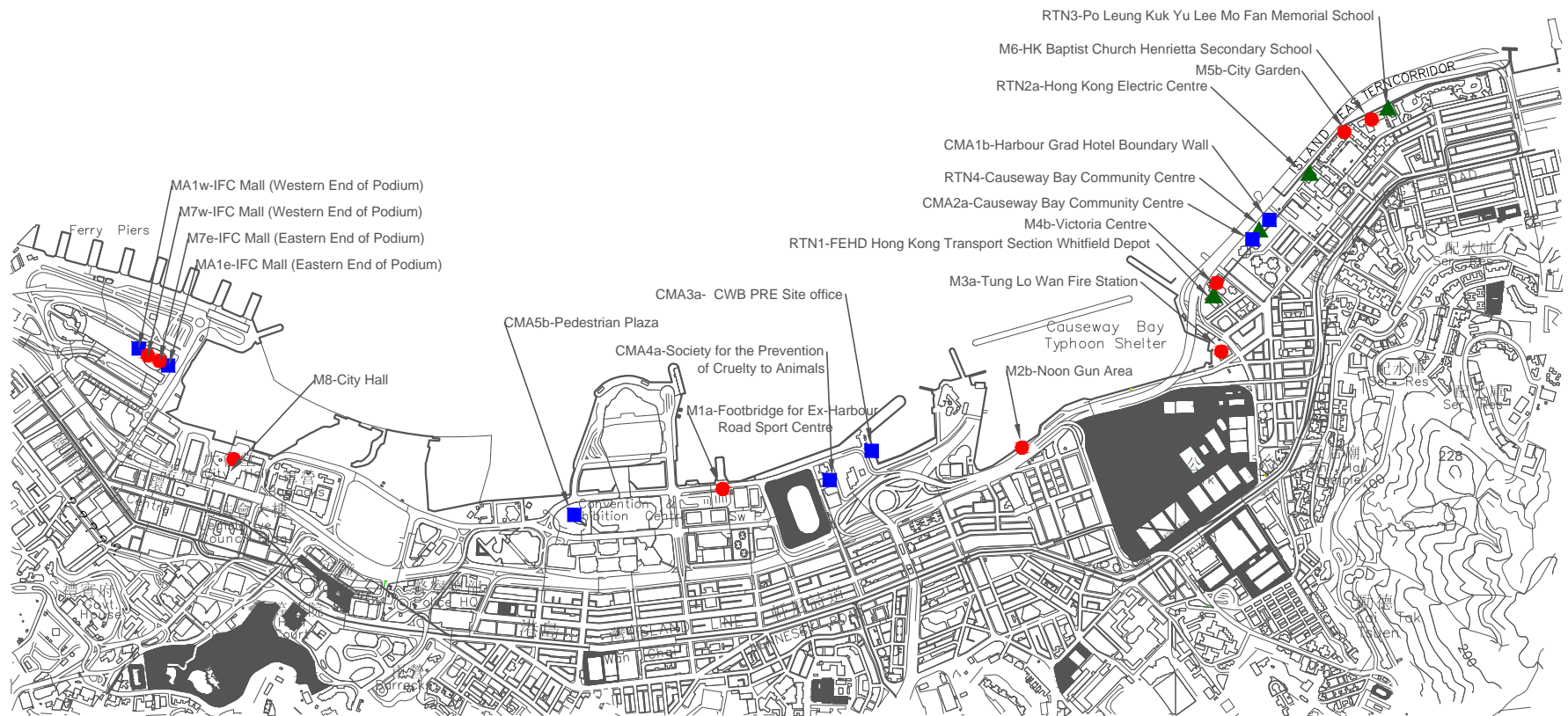


Figure 4.1

Locations of Monitoring Stations

Legend

- Noise Monitoring Station
- Air Monitoring Station
- ▲ Real-time Noise Monitoring Station



LOCATIONS OF AIR QUALITY AND NOISE 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 Report Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
Construction Phase								
S3.6.5	Four times a day watering of the work site with active operations.	Work site / during construction	Contractor		√			EIAO-TM
S3.8.1	Implementation of dust suppression measures stipulated in Air Pollution Control (Construction Dust) Regulation. The following mitigation measures, good site practices and a comprehensive dust monitoring and audit programme are recommended to minimise cumulative dust impacts. <ul style="list-style-type: none"> Strictly limit the truck speed on site to below 10 km per hour and water spraying to keep the haul roads in wet condition; Watering during excavation and material handling; Provision of vehicle wheel and body washing facilities at the exit points of the site, combined with cleaning of public roads where necessary; and Tarpaulin covering of all dusty vehicle loads transported to, from and between site locations. 	Work site / during construction	Contractor		√			
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			√		
S3.10.2	Air quality monitoring for the operation performance of the East Ventilation Building and associated East Vent Shaft will be conducted.	East Vent Shaft / During operation of the East Ventilation Building and associated East Vent Shaft	HyD			√		EIAO-TM

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

Table A.2 Implementation Schedule for Noise Control

WDII & CWB EIA Report Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
Construction Phase								
S4.9.3	<p>Good Site Practice:</p> <ul style="list-style-type: none"> Only well-maintained plant shall be operated on-site and plant shall be serviced regularly during the construction program. Silencers or mufflers on construction equipment shall be utilized and shall be properly maintained during the construction program. Mobile plant, if any, shall be sited as far away from NSRs as possible. Machines and plant (such as trucks) that may be in intermittent use shall be shut down between works periods or shall be throttled down to a minimum. Plant known to emit noise strongly in one direction shall, wherever possible, be orientated so that the noise is directed away from the nearby NSRs. Material stockpiles and other structures shall be effectively utilized, wherever practicable, in screening noise from on-site construction activities. 	Work Sites / During Construction	Contractor		√			EIAO-TM, NCO
S4.8.1 – S4.8.11	<p>Use of quiet powered mechanical equipment, movable noise barrier and temporary noise barrier for the following tasks:</p> <ul style="list-style-type: none"> 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		√			EIAO-TM, NCO

WDII & CWB EIA Report Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
	<ul style="list-style-type: none"> Demolition and construction of substructures for the IEC Demolition works of existing piers and crossheads of the marine section of the existing IEC <p>Use of PME grouping for the following tasks:</p> <ul style="list-style-type: none"> At-grade road construction Substructure for IECL connection 							
Operation Phase								
S4.8.12 – S4.8.23	<p>For Existing NSRs</p> <ul style="list-style-type: none"> about 235m length of noise semi-enclosure with transparent panel covering the westbound slip road from the IEC about 230m length of noise semi-enclosure with transparent panel covering the main carriageways (eastbound and westbound) of the CWB and IEC about 135m length of 5.5m high cantilevered noise barrier with 4.5m cantilever inclined at 45° with transparent panel on the eastbound slip road to the IEC (amended under EP-364/2009/A) about 95m length of 5.5m high cantilevered noise barrier with 1m cantilever inclined at 45° with transparent panel on the eastbound slip road to the IEC about 350m length of 3.5m high vertical noise barrier with transparent panel on the eastbound slip road to the IEC low noise road surfacing for the trunk road (except tunnel section and beneath the landscaped deck at the eastern portal area)) with speed limit of 70 km/hour 	Near North Point / Before commencement of operation of road project	HyD	√	√	√		EIAO-TM

WDII & CWB EIA Report Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
	<p>For Future/Planned NSRs</p> <ul style="list-style-type: none"> • about 265m length of noise semi-enclosure with transparent panel covering the westbound slip road from the IEC • 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. 	<p>In between the Electric Centre (next to City Garden) and CDA(1) site / Before occupation of Planned NSRs in CDA and CDA(1) sites.</p> <p>Near Causeway Bay Fire Station / During detailed design of the re-provisioned Tin Hau Temple</p>	<p>HyD</p> <p>Project Proponent for the re-provisioned Tin Hau Temple</p>	√	√ #			

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

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

Table A.4 Implementation Schedule for Waste Management

WDII & CWB EIA Report Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
Construction Phase								
S6.5.14	Floating Refuse During the construction phase, the project proponent's contractor will be responsible for the collection of any refuse within their works area. Floating booms will be provided on the water surface to confine the refuse from the working barges as well as to avoid the accumulation of pollutants within temporary embayment as mentioned in Table D9.3.	Work site / During the construction period	Contractor		√			
S6.6.1	Good Site Practices Recommendations for good site practices during the construction activities include: <ul style="list-style-type: none"> • nomination of an approved person, such as a site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site; • training of site personnel in proper waste management and chemical waste handling procedures; • provision of sufficient waste disposal points and regular collection for disposal; • appropriate measures to minimise windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers; • regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors; and • a recording system for the amount of wastes generated, recycled and disposed of (including the disposal sites). 	Work site / During the construction period	Contractor		√			Waste Disposal Ordinance (Cap.354)

WDII & CWB EIA Report Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
S6.6.2	<p><i>Waste Reduction Measures</i></p> <p>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:</p> <ul style="list-style-type: none"> • 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	√	√			

WDII & CWB EIA Report Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
S6.6.4	<p><i>General Refuse</i></p> <p>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.</p> <p>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.</p>	Work site / During the construction period	Contractor		√			Public Health and Municipal Services Ordinance (Cap. 132)
S6.6.5	<p><i>Chemical Wastes</i></p> <p>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.</p>	Work site / During the construction period	Contractor		√			<p>Waste Disposal (Chemical Waste) (General) Regulation</p> <p>Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes</p>
S6.6.6	<p><i>Construction and Demolition Material</i></p> <p>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.</p>	Work site / During the construction period	Contractor		√			ETWB TCW No. 33/2002, 31/2004, 19/2005

WDH & CWB EIA Report Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
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	<p><i>Bentonite Slurry</i></p> <p>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:</p> <ul style="list-style-type: none"> • If the disposal of a certain residual quantity cannot be avoided, the used slurry may be disposed of at the marine spoil grounds subject to obtaining a marine dumping licence from EPD on a case-by-case basis. • If the used bentonite slurry is intended to be disposed of through the public drainage system, it shall be treated to the respective effluent standards applicable to foul sewers, storm drains or the receiving waters as set out in the Technical Memorandum of Standards for Effluents Discharged into Drainage and Sewerage Systems, Inland and Coastal Waters. • If the used bentonite slurry is intended to be disposed to public fill reception facilities, it will be mixed with dry soil on site before disposal. 	Work site / During the construction period	Contractor		√			ProPECC PN 1/94

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

Table A.5 Implementation Schedule for Land Contamination

WDII & CWB EIA Report Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
Construction and Operation Phase								
S.7.1.1	As no potential contaminative land uses were identified within the Study Area, adverse land contamination impacts associated with the construction and operation of the Project is not expected. As such, environmental protection and mitigation measures are considered not necessary and will not be covered in this EM&A Manual.	-	-					-

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

Table A.7 Implementation Schedule for Landscape and Visual

WDII & CWB EIA Report Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
Construction Phase								
Table 10.5	CM1 Topsoil, where identified, shall be stripped and stored for re-use in the construction of the soft landscape works, where practical.	Work site / During Construction Phase	Contractor	√	√			EIAO TM
Table 10.5	CM2 Existing trees to be retained on site shall be carefully protected during construction.	Work site / During Construction Phase	Contractor	√	√			EIAO TM
Table 10.5	CM3 Trees unavoidably affected by the works shall be transplanted where practical.	Work site / During Construction Phase	Contractor	√	√			EIAO TM
Table 10.5	CM4 Compensatory tree planting shall be provided to compensate for felled trees.	Work site / During Construction Phase	Contractor	√	√			EIAO TM
Table 10.5	CM5 Control of night-time lighting.	Work site / During Construction Phase	Contractor		√			EIAO TM
Table 10.5	CM6 Erection of decorative screen hoarding compatible with the surrounding setting.	Work site / During Construction Phase	Contractor		√			EIAO TM
Operation Phase								
Table 10.6, Figure 10.5.1-10.5.5	OM1 Aesthetic design of buildings and road-related structures, including viaducts, vent buildings, subways, footbridges and noise barriers and enclosure.	Work site / During Design Stage and Operation Phases	HyD	√	√	√		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1-10.5.5	OM3 Buffer Tree and Shrub Planting to screen proposed roads and associated structures.	Work site / During Design Stage and Operation Phases	HyD	√	√	√		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1-10.5.5	OM5 Aesthetic streetscape design.	Work site / During Design Stage and Operation Phases	HyD	√	√	√		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1-10.5.5	OM6 Aesthetic design of roadside amenity areas.	Work site / During Design Stage and Operation Phases	HyD	√	√	√		ETWB TCW 2/2004

*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) ^{Note 1}

Note 1:

- 70dB(A) and 65 dB(A) for schools during normal teaching periods and school examination periods, respectively.
- If works are to be carried out during the restricted hours, the conditions stipulated in the Construction Noise Permit (CNP) issued by the Noise Control Authority have to be followed.

Action and Limit Level for Air Quality Monitoring

Monitoring Location	1-hour TSP Level in $\mu\text{g}/\text{m}^3$		24-hour TSP Level in $\mu\text{g}/\text{m}^3$	
	Action Level	Limit Level	Action Level	Limit Level
CMA1b	320.1	500	176.7	260
CMA2a	323.4	500	169.5	260
CMA3a	311.3	500	171.0	260
CMA4a	312.5	500	171.2	260
CMA5b	332.0	500	181.0	260
MA1e	325.1	500	173.4	260
MA1w	325.1	500	173.4	260



Appendix 4.2

Copies of Calibration Certificates



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

ORIFICE TRANSFER STANDARD CERTIFICATION WORKSHEET TE-5025A

Date - Mar 20, 2017 Rootmeter S/N 0438320 Ta (K) - 293
 Operator Tisch Orifice I.D. - 0005 Pa (mm) - 759.46

PLATE OR Run #	VOLUME START (m3)	VOLUME STOP (m3)	DIFF VOLUME (m3)	DIFF TIME (min)	METER DIFF Hg (mm)	ORFICE DIFF H2O (in.)
1	NA	NA	1.00	1.3960	3.2	2.00
2	NA	NA	1.00	0.9970	6.4	4.00
3	NA	NA	1.00	0.8910	7.8	5.00
4	NA	NA	1.00	0.8500	8.7	5.50
5	NA	NA	1.00	0.6990	12.7	8.00

DATA TABULATION

Vstd	(x axis) Qstd	(y axis)	Va	(x axis) Qa	(y axis)
1.0120	0.7249	1.4257	0.9958	0.7133	0.8784
1.0078	1.0108	2.0163	0.9916	0.9946	1.2423
1.0058	1.1288	2.2543	0.9896	1.1107	1.3889
1.0047	1.1820	2.3643	0.9885	1.1630	1.4567
0.9993	1.4296	2.8514	0.9832	1.4066	1.7568
Qstd slope (m) = 2.02533			Qa slope (m) = 1.26823		
intercept (b) = -0.03593			intercept (b) = -0.02214		
coefficient (r) = 0.99983			coefficient (r) = 0.99983		
y axis = SQRT[H2O(Pa/760)(298/Ta)]			y axis = SQRT[H2O(Ta/Pa)]		

CALCULATIONS

$$Vstd = \text{Diff. Vol} [(Pa - \text{Diff. Hg}) / 760] (298 / Ta)$$

$$Qstd = Vstd / \text{Time}$$

$$Va = \text{Diff Vol} [(Pa - \text{Diff Hg}) / Pa]$$

$$Qa = Va / \text{Time}$$

For subsequent flow rate calculations:

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

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



Calibration Data for High Volume Sampler (TSP Sampler)

Location : CMA1b
 Equipment no. : HVS001

Calibration Date : 27-Sep-17
 Calibration Due Date : 27-Nov-17

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition			
Temperature, T_a	303	Kelvin	Pressure, P_a
			1010 mmHg

Orifice Transfer Standard Information					
Equipment No.	Ori001	Slope, m_c	2.02533	Intercept, b_c	-0.03593
Last Calibration Date	20-Mar-17	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$ $m_c \times Q_{std} + b_c$			
Next Calibration Date	20-Mar-18				

Calibration of TSP						
Calibration Point	Manometer Reading			Q_{std} ($m^3 / \text{min.}$) X-axis	Continuous Flow Recorder, W (CFM)	IC ($W(P_a/1013.3 \times 298/T_a)^{1/2}/35.31$) Y-axis
	(up)	(down)	(difference)			
1	1.4	1.4	2.8	0.8358	28	27.7228
2	2.3	2.3	4.6	1.0662	34	33.6634
3	3.6	3.6	7.2	1.3295	44	43.5643
4	4.6	4.6	9.2	1.5005	50	49.5049
5	5.7	5.7	11.4	1.6683	57	56.4356

By Linear Regression of Y on X

Slope, m = 34.7539 Intercept, b = -2.3088
 Correlation Coefficient* = 0.9973
 Calibration Accepted = Yes/No**

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

** Delete as appropriate.

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

re-assigned from EL452 to HVS001 with respect to the update in quality management system.

Calibrated by : Jackey MA
 Date : 27-Sep-17

Checked by : Pauline Wong
 Date : 27-Sep-17



Calibration Data for High Volume Sampler (TSP Sampler)

Location : CMA2a Calibration Date : 27-Sep-17
 Equipment no. : HVS002 Calibration Due Date : 27-Nov-17

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition			
Temperature, T_a	303	Kelvin	Pressure, P_a
			1010 mmHg

Orifice Transfer Standard Information					
Equipment No.	Ori001	Slope, m_c	2.02533	Intercept, b_c	-0.03593
Last Calibration Date	20-Mar-17	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$ $m_c \times Q_{std} + b_c$			
Next Calibration Date	20-Mar-18				

Calibration of TSP						
Calibration Point	Manometer Reading			Q_{std} ($m^3 / min.$) X-axis	Continuous Flow Recorder, W (CFM)	IC ($W(P_a/1013.3 \times 298/T_a)^{1/2}/35.31$) Y-axis
	(up)	(down)	(difference)			
1	1.6	1.6	3.2	0.8922	28	27.7228
2	2.5	2.5	5.0	1.1109	32	31.6832
3	4.0	4.0	8.0	1.4004	42	41.5841
4	5.1	5.1	10.2	1.5790	50	49.5049
5	6.4	6.4	12.8	1.7667	58	57.4257

By Linear Regression of Y on X

Slope, m = 34.5756 Intercept, b = -5.0881
 Correlation Coefficient* = 0.9903
 Calibration Accepted = Yes/No**

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

** Delete as appropriate.

Remarks : As per client's provided information, the equipment reference no. of the calibrated High Volume Sampler has been re-assigned from EL449 to HVS002 with respect to the update in quality management system.

Calibrated by : Jackey MA Checked by : Pualine Wong
 Date : 27-Sep-17 Date : 27-Sep-17



Calibration Data for High Volume Sampler (TSP Sampler)

Location : CMA3a
 Equipment no. : HVS012

Calibration Date : 28-Sep-17
 Calibration Due Date : 28-Nov-17

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition			
Temperature, T _a	303	Kelvin	Pressure, P _a
			1009 mmHg

Orifice Transfer Standard Information					
Equipment No.	Ori001	Slope, m _c	2.02533	Intercept, b _c	-0.03593
Last Calibration Date	20-Mar-17	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$ $m_c \times Q_{std} + b_c$			
Next Calibration Date	20-Mar-18				

Calibration of TSP						
Calibration Point	Manometer Reading			Q _{std} (m ³ / min.) X-axis	Continuous Flow Recorder, W (CFM)	IC (W(P _a /1013.3x298/T _a) ^{1/2} /35.31) Y-axis
	(up)	(down)	(difference)			
1	1.3	1.3	2.6	0.8056	32	31.6675
2	2.1	2.1	4.2	1.0191	38	37.6051
3	3.3	3.3	6.6	1.2730	44	43.5428
4	4.3	4.3	8.6	1.4506	49	48.4908
5	4.9	4.9	9.8	1.5473	54	53.4389

By Linear Regression of Y on X

Slope, m = 27.9609 Intercept, b = 8.8606
 Correlation Coefficient* = 0.9940
 Calibration Accepted = Yes/No**

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

** Delete as appropriate.

Remarks : As per client's provided information, the equipment reference no. of the calibrated High Volume Sampler has been re-assigned from EL333 to HVS012 with respect to the update in quality management system.

Calibrated by : Jackey MA
 Date : 28-Sep-17

Checked by : Pauline Wong
 Date : 28-Sep-17



Calibration Data for High Volume Sampler (TSP Sampler)

Location : CMA4a
 Equipment no. : HVS004

Calibration Date : 28-Sep-17
 Calibration Due Date : 28-Nov-17

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition			
Temperature, T_a	303	Kelvin	Pressure, P_a
			1009 mmHg

Orifice Transfer Standard Information					
Equipment No.	Ori001	Slope, m_c	2.02533	Intercept, b_c	-0.03593
Last Calibration Date	20-Mar-17	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$ $m_c \times Q_{std} + b_c$			
Next Calibration Date	20-Mar-18				

Calibration of TSP						
Calibration Point	Manometer Reading			Q_{std} ($m^3 / min.$)	Continuous Flow Recorder, W (CFM)	IC ($W(P_a/1013.3 \times 298/T_a)^{1/2}/35.31$)
	H (inches of water)					
	(up)	(down)	(difference)			
1	1.4	1.4	2.8	0.8354	24	23.7506
2	2.3	2.3	4.6	1.0657	32	31.6675
3	3.6	3.6	7.2	1.3288	42	41.5636
4	4.7	4.7	9.4	1.5158	48	47.5012
5	5.8	5.8	11.6	1.6819	52	51.4596

By Linear Regression of Y on X

Slope, m = 33.4431 Intercept, b = -3.8033
 Correlation Coefficient* = 0.9977
 Calibration Accepted = Yes/No**

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

** Delete as appropriate.

Remarks : As per client's provided information, the equipment reference no. of the calibrated High Volume Sampler has been
 re-assigned from EL390 to HVS004 with respect to the update in quality management system.

Calibrated by : Jackey MA

Checked by : Pauline Wong

Date : 28-Sep-17

Date : 28-Sep-17



Calibration Data for High Volume Sampler (TSP Sampler)

Location : CMA5b
 Equipment no. : HVS010

Calibration Date : 28-Sep-17
 Calibration Due Date : 28-Nov-17

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition				
Temperature, T _a	303	Kelvin	Pressure, P _a	1009 mmHg

Orifice Transfer Standard Information					
Equipment No.	Ori001	Slope, m _c	2.02533	Intercept, b _c	-0.03593
Last Calibration Date	20-Mar-17	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$ $= m_c \times Q_{std} + b_c$			
Next Calibration Date	20-Mar-18				

Calibration of TSP						
Calibration Point	Manometer Reading			Q _{std} (m ³ / min.) X-axis	Continuous Flow Recorder, W (CFM)	IC (W(P _a /1013.3x298/T _a) ^{1/2} /35.31) Y-axis
	(up)	(down)	(difference)			
1	1.3	1.3	2.6	0.8056	38	37.6051
2	2.1	2.1	4.2	1.0191	43	42.5532
3	3.2	3.2	6.4	1.2539	50	49.4804
4	4.3	4.3	8.6	1.4506	55	54.4285
5	5.3	5.3	10.6	1.6086	60	59.3765

By Linear Regression of Y on X

Slope, m = 27.1605 Intercept, b = 15.3477
 Correlation Coefficient* = 0.9990
 Calibration Accepted = Yes/No**

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

** Delete as appropriate.

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

Calibrated by : Jackey MA
 Date : 28-Sep-17

Checked by : Pauline Wong
 Date : 28-Sep-17



Calibration Data for High Volume Sampler (TSP Sampler)

Location : MA1e
 Equipment no. : HVS007

Calibration Date : 28-Sep-17
 Calibration Due Date : 28-Nov-17

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition			
Temperature, T_a	303	Kelvin	Pressure, P_a
			1009 mmHg

Orifice Transfer Standard Information			
Equipment No.	Ori001	Slope, m_c	2.02533
		Intercept, b_c	-0.03593
Last Calibration Date	20-Mar-17	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$ $m_c \times Q_{std} + b_c$	
Next Calibration Date	20-Mar-18		

Calibration of TSP						
Calibration Point	Manometer Reading			Q_{std} ($m^3 / min.$) X-axis	Continuous Flow Recorder, W (CFM)	IC ($W(P_a/1013.3 \times 298/T_a)^{1/2}/35.31$) Y-axis
	(up)	(down)	(difference)			
1	1.5	1.5	3.0	0.8640	28	27.7090
2	2.4	2.4	4.8	1.0882	36	35.6259
3	3.8	3.8	7.6	1.3648	45	44.5324
4	4.9	4.9	9.8	1.5473	52	51.4596
5	6.2	6.2	12.4	1.7383	56	55.4181

By Linear Regression of Y on X

Slope, m = 32.3638 Intercept, b = 0.2111
 Correlation Coefficient* = 0.9973
 Calibration 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 EL455 to HVS007 with respect to the update in quality management system.

Calibrated by : Jackey MA
 Date : 28-Sep-17

Checked by : Pauline Wong
 Date : 28-Sep-17



Calibration Data for High Volume Sampler (TSP Sampler)

Location : MA1w
 Equipment no. : HVS008

Calibration Date : 28-Sep-17
 Calibration Due Date : 28-Nov-17

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition			
Temperature, T _a	303	Kelvin	Pressure, P _a
			1009 mmHg

Orifice Transfer Standard Information			
Equipment No.	Ori001	Slope, m _c	2.02533
		Intercept, b _c	-0.03593
Last Calibration Date	20-Mar-17	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$ $= m_c \times Q_{std} + b_c$	
Next Calibration Date	20-Mar-18		

Calibration of TSP						
Calibration Point	Manometer Reading			Q _{std} (m ³ / min.)	Continuous Flow Recorder, W (CFM)	IC (W(P _a /1013.3x298/T _a) ^{1/2} /35.31)
	H (inches of water)					
	(up)	(down)	(difference)			
1	1.5	1.5	3.0	0.8640	26	25.7298
2	2.4	2.4	4.8	1.0882	36	35.6259
3	3.8	3.8	7.6	1.3648	44	43.5428
4	4.8	4.8	9.6	1.5317	50	49.4804
5	6.0	6.0	12.0	1.7104	57	56.4077

By Linear Regression of Y on X

Slope, m = 35.1365 Intercept, b = -3.9352
 Correlation Coefficient* = 0.9976
 Calibration 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 : Jackey MA
 Date : 28-Sep-17

Checked by : Pauline Wong
 Date : 28-Sep-17



CERTIFICATE OF CALIBRATION

Certificate No.: 17CA0426 01-02 Page 1 of 2

Item tested

Description:	Sound Level Meter (Type 1)	,	Microphone
Manufacturer:	Larson Davis	,	PCB
Type/Model No.:	LxT1	,	377B02
Serial/Equipment No.:	0003737	,	171529
Adaptors used:	-	,	-

Item submitted by

Customer Name:	Lam Environmental Service Ltd.
Address of Customer:	-
Request No.:	-
Date of receipt:	26-Apr-2017

Date of test: 28-Apr-2017

Reference equipment used in the calibration

Description:	Model:	Serial No.	Expiry Date:	Traceable to:
Multi function sound calibrator	B&K 4226	2288444	18-Jun-2017	CIGISMEC
Signal generator	DS 360	61227	01-Apr-2018	CEPREI

Ambient conditions

Temperature:	21 ± 1 °C
Relative humidity:	50 ± 10 %
Air pressure:	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 responses of the Sound Level Meter.

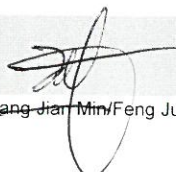
Test results

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

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

Actual Measurement data are documented on worksheets.

Approved Signatory:


Huang Jian Min/Feng Jun Qi

Date: 04-May-2017

Company Chop:



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



CERTIFICATE OF CALIBRATION

(Continuation Page)

Certificate No.: 17CA0426 01-02 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 Uncertainty (dB)	Coverage Factor
Self-generated noise	A	Pass	0.3	2.1
	C	Pass	0.8	
	Lin	Pass	1.6	
Linearity range for Leq	At reference range, Step 5 dB at 4 kHz	Pass	0.3	2.2
	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	
	At reference range, Step 5 dB at 4 kHz	Pass	0.3	
Linearity range for SPL	A	Pass	0.3	
	C	Pass	0.3	
	Lin	Pass	0.3	
Time weightings	Single Burst Fast	Pass	0.3	
	Single Burst Slow	Pass	0.3	
Peak response	Single 100µs rectangular pulse	N/A	N/A	
R.M.S. accuracy	Crest factor of 3	Pass	0.3	
Time weighting I	Single burst 5 ms at 2000 Hz	Pass	0.3	
	Repeated at frequency of 100 Hz	Pass	0.3	
Time averaging	1 ms burst duty factor 1/10 ³ at 4kHz	Pass	0.3	
	1 ms burst duty factor 1/10 ⁴ at 4kHz	Pass	0.3	
Pulse range	Single burst 10 ms at 4 kHz	Pass	0.4	
Sound exposure level	Single burst 10 ms at 4 kHz	Pass	0.4	
Overload indication	SPL	Pass	0.3	
	Leq	Pass	0.4	

2, Acoustic tests

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

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

3, Response to associated sound calibrator

N/A

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

- End -

Calibrated by:

Lai Sheng Jie

Date: 28-Apr-2017

Checked by:

Fung Chi Yip

Date: 04-May-2017

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



CERTIFICATE OF CALIBRATION

Certificate No.: 17CA0221 02 Page 1 of 2

Item tested

Description:	Sound Level Meter (Type 1)	Microphone	Preamp
Manufacturer:	B & K	B & K	B & K
Type/Model No.:	2250-L	4950	ZC0032
Serial/Equipment No.:	2701778	2755097	19223
Adaptors used:	-	-	-

Item submitted by

Customer Name: Lam Geotechnics Limited
Address of Customer: -
Request No.: -
Date of receipt: 22-Feb-2017

Date of test: 02-Mar-2017

Reference equipment used in the calibration

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

Ambient conditions

Temperature: 20 ± 1 °C
Relative humidity: 60 ± 10 %
Air pressure: 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 $\pm 20\%$.
- 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 response of the Sound Level Meter.

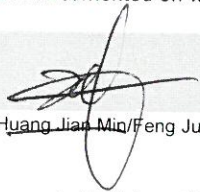
Test results

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

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

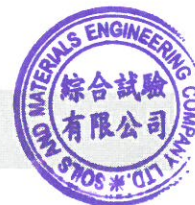
Actual Measurement data are documented on worksheets.

Approved Signatory:


Huang Jian Min/Feng Jun Qi

Date: 06-Mar-2017

Company Chop:



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



CERTIFICATE OF CALIBRATION

(Continuation Page)

Certificate No.: 17CA0221 02 Page 2 of 2

1, Electrical Tests

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

Test:	Subtest:	Status:	Expanded Uncertainty (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	
	At reference range, Step 5 dB at 4 kHz	Pass	0.3	
Linearity range for SPL	A	Pass	0.3	
	C	Pass	0.3	
	Lin	Pass	0.3	
Time weightings	Single Burst Fast	Pass	0.3	
	Single Burst Slow	Pass	0.3	
Peak response	Single 100µs rectangular pulse	Pass	0.3	
R.M.S. accuracy	Crest factor of 3	Pass	0.3	
Time weighting I	Single burst 5 ms at 2000 Hz	Pass	0.3	
	Repeated at frequency of 100 Hz	Pass	0.3	
Time averaging	1 ms burst duty factor 1/10 ³ at 4kHz	Pass	0.3	
	1 ms burst duty factor 1/10 ⁴ at 4kHz	Pass	0.3	
Pulse range	Single burst 10 ms at 4 kHz	Pass	0.4	
Sound exposure level	Single burst 10 ms at 4 kHz	Pass	0.4	
Overload indication	SPL	Pass	0.3	
	Leq	Pass	0.4	

2, Acoustic tests

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

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

3, Response to associated sound calibrator

N/A

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

- End -

Calibrated by:

Date:

Fung Chi Yip
02-Mar-2017

Checked by:

Date:

Lam Tze Wai
06-Mar-2017

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



CERTIFICATE OF CALIBRATION

Certificate No.: 17CA0320 02 Page 1 of 2

Item tested

Description:	Sound Level Meter (Type 1)	Microphone	Preamp
Manufacturer:	B & K	B & K	B & K
Type/Model No.:	2250-L	4950	ZC0032
Serial/Equipment No.:	2722310	2698702	13318
Adaptors used:	-	-	-

Item submitted by

Customer Name: Lam Geotechnics Ltd.
Address of Customer: -
Request No.: -
Date of receipt: 20-Mar-2017

Date of test: 23-Mar-2017

Reference equipment used in the calibration

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

Ambient conditions

Temperature: 21 ± 1 °C
Relative humidity: 60 ± 10 %
Air pressure: 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.

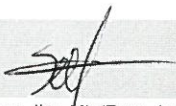
Test results

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.

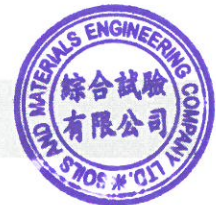
Actual Measurement data are documented on worksheets.

Approved Signatory:


Huang Jian Min/Feng Jun Qi

Date: 24-Mar-2017

Company Chop:



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



CERTIFICATE OF CALIBRATION

(Continuation Page)

Certificate No.: 17CA0320 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 Uncertainty (dB)	Coverage Factor
Self-generated noise	A	Pass	0.3	
	C	Pass	0.8	
	Lin	Pass	1.6	
Linearity range for Leq	At reference range, Step 5 dB at 4 kHz	Pass	0.3	
	Reference SPL on all other ranges	Pass	0.3	
	2 dB below upper limit of each range	Pass	0.3	
	2 dB above lower limit of each range	Pass	0.3	
Linearity range for SPL	At reference range, Step 5 dB at 4 kHz	Pass	0.3	
	Frequency weightings	A	Pass	0.3
Time weightings	C	Pass	0.3	
	Lin	Pass	0.3	
	Single Burst Fast	Pass	0.3	
Peak response	Single Burst Slow	Pass	0.3	
	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
Time averaging	Repeated at frequency of 100 Hz	Pass	0.3	
	1 ms burst duty factor 1/10 ³ at 4kHz	Pass	0.3	
	1 ms burst duty factor 1/10 ⁴ at 4kHz	Pass	0.3	
Pulse range	Single burst 10 ms at 4 kHz	Pass	0.4	
	Sound exposure level	Single burst 10 ms at 4 kHz	Pass	0.4
Overload indication	SPL	Pass	0.3	
	Leq	Pass	0.4	

2, Acoustic tests

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

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

3, Response to associated sound calibrator

N/A

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

- End -

Calibrated by:

Lai Sheng Jie

Date: 23-Mar-2017

Checked by:

Fung Chi Yip

Date: 24-Mar-2017

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



CERTIFICATE OF CALIBRATION

Certificate No.: 17CA0505 01 Page 1 of 2

Item tested

Description:	Sound Level Meter (Type 1)	Microphone	Preamp
Manufacturer:	B & K	B & K	B & K
Type/Model No.:	2250-L	4950	ZC0032
Serial/Equipment No.:	2722311	2698703	13321
Adaptors used:	-	-	-

Item submitted by

Customer Name: Lam Geotechnics Ltd.
Address of Customer: -
Request No.: -
Date of receipt: 05-May-2017

Date of test: 06-May-2017

Reference equipment used in the calibration

Description:	Model:	Serial No.	Expiry Date:	Traceable to:
Multi function sound calibrator	B&K 4226	2288444	18-Jun-2017	CIGISMEC
Signal generator	DS 360	61227	01-Apr-2018	CEPREI

Ambient conditions

Temperature: 22 ± 1 °C
Relative humidity: 50 ± 10 %
Air pressure: 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 $\pm 20\%$.
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 responses of the Sound Level Meter.

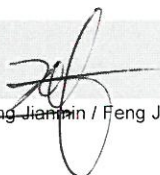
Test results

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

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

Actual Measurement data are documented on worksheets.

Approved Signatory:

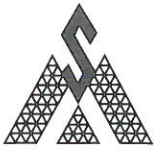

Huang Jianmin / Feng Junqi

Date: 09-May-2017

Company Chop:



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



CERTIFICATE OF CALIBRATION

(Continuation Page)

Certificate No.: 17CA0505 01 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 Uncertainty (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	
	A	Pass	0.3	
	C	Pass	0.3	
Frequency weightings	Lin	Pass	0.3	
	Time weightings	Single Burst Fast	Pass	0.3
	Single Burst Slow	Pass	0.3	
Peak response	Single 100µs rectangular pulse	Pass	0.3	
	R.M.S. accuracy	Crest factor of 3	Pass	0.3
Time weighting I	Single burst 5 ms at 2000 Hz	Pass	0.3	
	Repeated at frequency of 100 Hz	Pass	0.3	
	Time averaging	1 ms burst duty factor 1/10 ³ at 4kHz	Pass	0.3
Pulse range	1 ms burst duty factor 1/10 ⁴ at 4kHz	Pass	0.3	
	Sound exposure level	Single burst 10 ms at 4 kHz	Pass	0.4
Overload indication	SPL	Pass	0.3	
	Leq	Pass	0.4	

2, Acoustic tests

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

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

3, Response to associated sound calibrator

N/A

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

- End -

Calibrated by:

Lai Sheng Jie

Date: 06-May-2017

Checked by:

Fung Chi Yip

Date: 09-May-2017

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



CERTIFICATE OF CALIBRATION

Certificate No.: 17CA0119 01 Page 1 of 2

Item tested

Description:	Sound Level Meter (Type 1)	Microphone	Preamp
Manufacturer:	B & K	B & K	B & K
Type/Model No.:	2250-L	4950	ZC0032
Serial/Equipment No.:	3002695	2940839	18582
Adaptors used:	-	-	-

Item submitted by

Customer Name: Lam Geotechnics Limited
Address of Customer: -
Request No.: -
Date of receipt: 19-Jan-2017

Date of test: 20-Jan-2017

Reference equipment used in the calibration

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

Ambient conditions

Temperature: 21 ± 1 °C
Relative humidity: 40 ± 10 %
Air pressure: 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 $\pm 20\%$.
- 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 responsiveness of the Sound Level Meter.

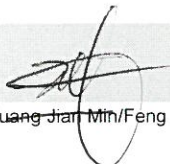
Test results

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

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

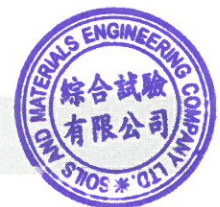
Actual Measurement data are documented on worksheets.

Approved Signatory:


Huang Jian Min/Feng Jun Qi

Date: 23-Jan-2017

Company Chop:



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



CERTIFICATE OF CALIBRATION

(Continuation Page)

Certificate No.: 17CA0119 01 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 Uncertainty (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	A	Pass	0.3	
	C	Pass	0.3	
	Lin	Pass	0.3	
Time weightings	Single Burst Fast	Pass	0.3	
	Single Burst Slow	Pass	0.3	
Peak response	Single 100µs rectangular pulse	Pass	0.3	
R.M.S. accuracy	Crest factor of 3	Pass	0.3	
Time weighting I	Single burst 5 ms at 2000 Hz	Pass	0.3	
	Repeated at frequency of 100 Hz	Pass	0.3	
Time averaging	1 ms burst duty factor 1/10 ³ at 4kHz	Pass	0.3	
	1 ms burst duty factor 1/10 ⁴ at 4kHz	Pass	0.3	
Pulse range	Single burst 10 ms at 4 kHz	Pass	0.4	
Sound exposure level	Single burst 10 ms at 4 kHz	Pass	0.4	
Overload indication	SPL	Pass	0.3	
	Leq	Pass	0.4	

2, Acoustic tests

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

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

3, Response to associated sound calibrator

N/A

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

- End -

Calibrated by:

Date:

Fung Chi Yip
20-Jan-2017

Checked by:

Date:

Lam Tze Wai
23-Jan-2017

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



CERTIFICATE OF CALIBRATION

Certificate No.: 16CA1117 01-02

Page: 1 of 2

Item tested

Description: Acoustical Calibrator (Class 1)
Manufacturer: Rion Co., Ltd.
Type/Model No.: NC-73
Serial/Equipment No.: 10707358
Adaptors used: -

Item submitted by

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

Date of test: 18-Nov-2016

Reference equipment used in the calibration

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

Ambient conditions

Temperature: 23 ± 1 °C
Relative humidity: 50 ± 10 %
Air pressure: 1005 ± 5 hPa

Test specifications

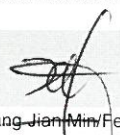
- 1, The Sound Calibrator has been calibrated in accordance with the requirements as specified in IEC 60942 1997 Annex B and the lab calibration procedure SMTP004-CA-156.
- 2, The calibrator was tested with its axis vertical facing downwards at the specific frequency using insert voltage technique.
-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

Test results

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

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

Approved Signatory:


Huang Jian Min/Feng Jun Qi

Date: 21-Nov-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.



CERTIFICATE OF CALIBRATION

(Continuation Page)

Certificate No.: 16CA1117 01-02 Page: 2 of 2

1, Measured Sound Pressure Level

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

Frequency Shown Hz	Output Sound Pressure Level Setting dB	Measured Output Sound Pressure Level dB	Estimated Expanded Uncertainty dB
1000	94.00	94.12	0.10

(Output level in dB re 20 µPa)

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 = 0.002 dB**
 Estimated expanded uncertainty 0.005 dB

3, Actual Output Frequency

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

At 1000 Hz **Actual Frequency = 991.6 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 = 0.6 %**
 Estimated expanded uncertainty 0.7 %

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

- End -

Calibrated by:

Date: 18-Nov-2016

Fung Chi Yip

Checked by:

Date: 21-Nov-2016

Lam Tze Wai

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.



CERTIFICATE OF CALIBRATION

Certificate No.: 17CA1110 02

Page: 1 of 2

Item tested

Description: Acoustical Calibrator (Class 1)
Manufacturer: Rion Co., Ltd.
Type/Model No.: NC-73
Serial/Equipment No.: 10707358
Adaptors used: -

Item submitted by

Customer: Lam Geotechnics Ltd.
Address of Customer: -
Request No.: -
Date of receipt: 10-Nov-2017

Date of test: 14-Nov-2017

Reference equipment used in the calibration

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

Ambient conditions

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

Test specifications

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

Test results

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

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

Approved Signatory:

Huang Jian Min/Feng Jun Qi

Date: 15-Nov-2017

Company Chop:



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



CERTIFICATE OF CALIBRATION

(Continuation Page)

Certificate No.: 17CA1110 02

Page: 2 of 2

1, Measured Sound Pressure Level

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

Frequency Shown Hz	Output Sound Pressure Level Setting dB	Measured Output Sound Pressure Level dB	(Output level in dB re 20 μ Pa)
			Estimated Expanded Uncertainty dB
1000	94.00	93.93	0.10

2, Sound Pressure Level Stability - Short Term Fluctuations

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

At 1000 Hz **STF = 0.008 dB**

Estimated expanded uncertainty 0.005 dB

3, Actual Output Frequency

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

At 1000 Hz **Actual Frequency = 991.5 Hz**

Estimated expanded uncertainty 0.1 Hz Coverage factor k = 2.2

4, Total Noise and Distortion

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

At 1000 Hz **TND = 0.3 %**

Estimated expanded uncertainty 0.7 %

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

Calibrated by:

Date: 14-Nov-2017

- End -

Checked by:

Date: 15-Nov-2017

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



CERTIFICATE OF CALIBRATION

Certificate No.: 17CA1020 02

Page: 1 of 2

Item tested

Description: Acoustical Calibrator (Class 1)
Manufacturer: Larson Davis
Type/Model No.: CAL200
Serial/Equipment No.: 13437
Adaptors used: -

Item submitted by

Customer: Lam Geotechnics Ltd.
Address of Customer: -
Request No.: -
Date of receipt: 20-Oct-2017

Date of test: 23-Oct-2017

Reference equipment used in the calibration

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

Ambient conditions

Temperature: 22 ± 1 °C
Relative humidity: 50 ± 10 %
Air pressure: 1000 ± 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.
- 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:


Huang Jian Min/Feng Jun Qi

Date: 24-Oct-2017

Company Chop:



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



CERTIFICATE OF CALIBRATION

(Continuation Page)

Certificate No.: 17CA1020 02 Page: 2 of 2

1, Measured Sound Pressure Level

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

Frequency Shown Hz	Output Sound Pressure Level Setting dB	Measured Output Sound Pressure Level dB	(Output level in dB re 20 μ Pa)	
			Estimated	Expanded Uncertainty dB
1000	94.0	93.90	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 = 0.011 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 = 1000.2 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 = 0.6 %
 Estimated expanded uncertainty 0.7 %

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

Calibrated by: 
 Date: 23-Oct-2017

- End -

Checked by: 
 Date: 24-Oct-2017

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



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
November 2017

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					27-Oct	28-Oct
29-Oct	30-Oct	31-Oct	1-Nov	2-Nov	3-Nov	4-Nov
		24hr TSP Noise (daytime) (M3a, M4b, M5b, M6, M7e, M7w, M8)	24hr TSP (CMA3a) 1hr TSP		Noise (daytime) (M1a, M2b)	
5-Nov	6-Nov	7-Nov	8-Nov	9-Nov	10-Nov	11-Nov
24hr TSP Noise (daytime) (M7e, M7w, M8)	1hr TSP			Noise (daytime) (M1a, M2b, M3a, M4b, M5b, M6)		24hr TSP
12-Nov	13-Nov	14-Nov	15-Nov	16-Nov	17-Nov	18-Nov
24hr TSP (CMA5b) 1hr TSP	Noise (daytime) (M7e, M7w)	Noise (daytime) (M3a, M4b, M5b, M6)	Noise (daytime) (M8)	Noise (daytime) (M8)	24hr TSP Noise (daytime) (M1a, M2b)	24hr TSP (CMA4a) 1hr TSP
19-Nov	20-Nov	21-Nov	22-Nov	23-Nov	24-Nov	25-Nov
		Noise (daytime) (M3a, M4b, M5b, M6, M7e, M7w, M8)	Noise (daytime) (M1a, M2b)	24hr TSP	1hr TSP	
26-Nov						

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
December 2017

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	27-Nov	28-Nov	29-Nov	30-Nov	1-Dec	2-Dec
			24hr TSP	1hr TSP		
3-Dec	4-Dec	5-Dec	6-Dec	7-Dec	8-Dec	9-Dec
Noise (daytime)	24hr TSP Noise (daytime)	1hr TSP				
10-Dec	11-Dec	12-Dec	13-Dec	14-Dec	15-Dec	16-Dec
24hr TSP Noise (daytime)	1hr TSP Noise (daytime)				24hr TSP	
17-Dec	18-Dec	19-Dec	20-Dec	21-Dec	22-Dec	23-Dec
1hr TSP Noise (daytime)	Noise (daytime)			24hr TSP	1hr TSP	
24-Dec	25-Dec	26-Dec				



Appendix 5.2

Noise Monitoring Results and Graphical Presentations



Noise Monitoring Result

Day Time (0700 - 1900hrs on normal weekdays)

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

Date	Time	Weather	Measurement Noise Level			Baseline Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq
Unit: dB(A), (30-min)								
3/11/2017	13:10	Fine	82.8	84.0	75.6	72	82	75
9/11/2017	10:05	Fine	74.6	76.4	72.2	72	71	75
17/11/2017	09:55	Fine	76.9	79.1	73.6	72	75	75
22/11/2017	10:50	Fine	78.0	80.0	74.4	72	77	75

Location: M2b - Noon-day gun area

Date	Time	Weather	Measurement Noise Level			Baseline Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq
Unit: dB(A), (30-min)								
3/11/2017	10:00	Fine	67.7	69.0	66.1	68	51	75
9/11/2017	10:50	Fine	67.0	68.5	65.0	68	67	75
17/11/2017	10:35	Fine	66.6	68.2	64.9	68	67	75
22/11/2017	08:10	Fine	68.5	70.3	66.1	68	61	75

Location: M3a - Tung Lo Wan Fire Station

Date	Time	Weather	Measurement Noise Level			Baseline Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq
Unit: dB(A), (30-min)								
31/10/2017	09:15	Fine	65.5	67.1	63.3	69	66	75
9/11/2017	13:05	Fine	65.7	67.2	63.9	69	66	75
15/11/2017	09:20	Fine	64.5	66.2	62.3	69	65	75
21/11/2017	09:40	Fine	64.3	66.1	61.9	69	64	75

Location: M4b - Victoria Centre

Date	Time	Weather	Measurement Noise Level			Baseline Noise Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq
Unit: dB(A), (30min)								
31/10/2017	09:55	Fine	68.0	69.7	65.0	67	60	75
9/11/2017	13:45	Fine	68.3	69.3	65.2	67	61	75
15/11/2017	10:00	Fine	65.0	66.7	62.4	67	65	75
21/11/2017	08:45	Fine	65.5	66.1	62.2	67	66	75

Location: M5b - City Garden

Date	Time	Weather	Measurement Noise Level			Baseline Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq
Unit: dB(A), (30min)								
31/10/2017	10:40	Fine	73.4	74.7	71.0	68	72	75
9/11/2017	14:30	Fine	70.2	71.3	68.8	68	66	75
15/11/2017	10:45	Fine	70.9	72.2	69.4	68	68	75
21/11/2017	10:30	Fine	68.7	69.9	65.7	68	60	75

Location: M6 - HK Baptist Church Henrietta Secondary School

Date	Time	Weather	Measurement Noise Level			Baseline Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq
Unit: dB(A), (30-min)								
31/10/2017	11:15	Fine	67.9	69.2	66.2	71	68	70
9/11/2017	15:10	Fine	67.5	68.7	66.1	71	68	70
15/11/2017	11:20	Fine	68.4	69.5	67.0	71	68	70
21/11/2017	11:10	Fine	67.6	68.9	66.0	71	68	70



Noise Monitoring Result

Day Time (0700 - 1900hrs on normal weekdays)

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

Date	Time	Weather	Measurement Noise Level			Baseline Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq
Unit: dB(A), (30-min)								
31/10/2017	14:55	Fine	69.6	70.5	65.0	67	66	N/A
6/11/2017	13:20	Fine	75.1	78.6	67.2	67	74	N/A
14/11/2017	14:00	Fine	66.1	67.7	63.2	67	66	N/A
21/11/2017	14:50	Fine	69.5	72.7	65.1	67	66	N/A

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

Date	Time	Weather	Measurement Noise Level			Baseline Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq
Unit: dB(A), (30-min)								
31/10/2017	15:30	Fine	65.8	66.9	62.6	69	66	75
6/11/2017	13:55	Fine	66.8	68.1	64.3	69	67	75
14/11/2017	14:35	Fine	65.5	67.1	62.6	69	66	75
21/11/2017	15:25	Fine	65.5	67.1	63.5	69	66	75

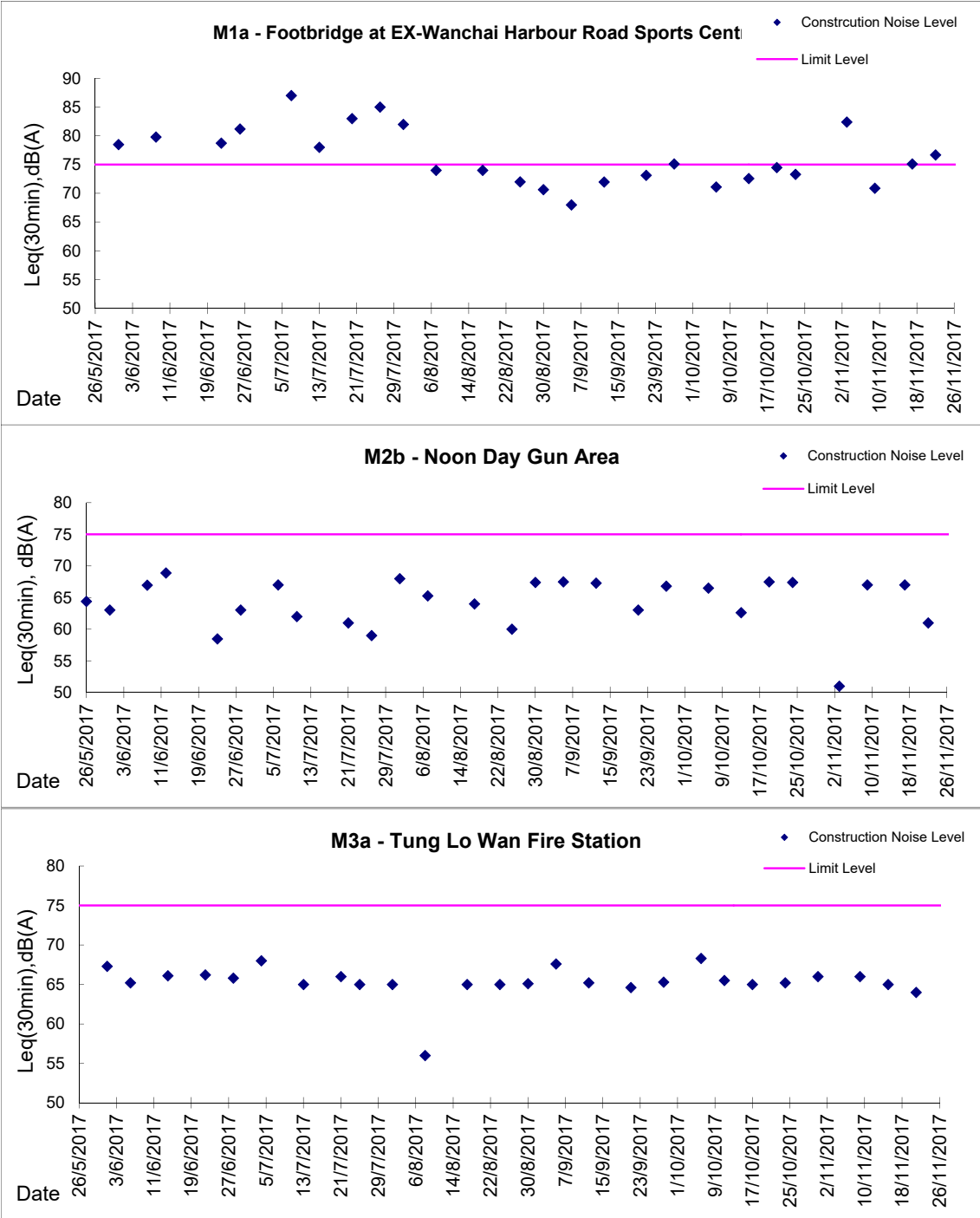
Location: M8 - City Hall

Date	Time	Weather	Measurement Noise Level			Baseline Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq
Unit: dB(A), (30-min)								
31/10/2017	14:00	Fine	59.5	61.6	56.3	64	60	70
6/11/2017	14:45	Fine	59.7	61.9	56.0	64	60	70
16/11/2017	15:30	Fine	67.3	69.7	63.0	64	65	70
21/11/2017	13:50	Fine	64.9	66.9	60.6	64	58	70



Graphic Presentation of Noise Monitoring Result

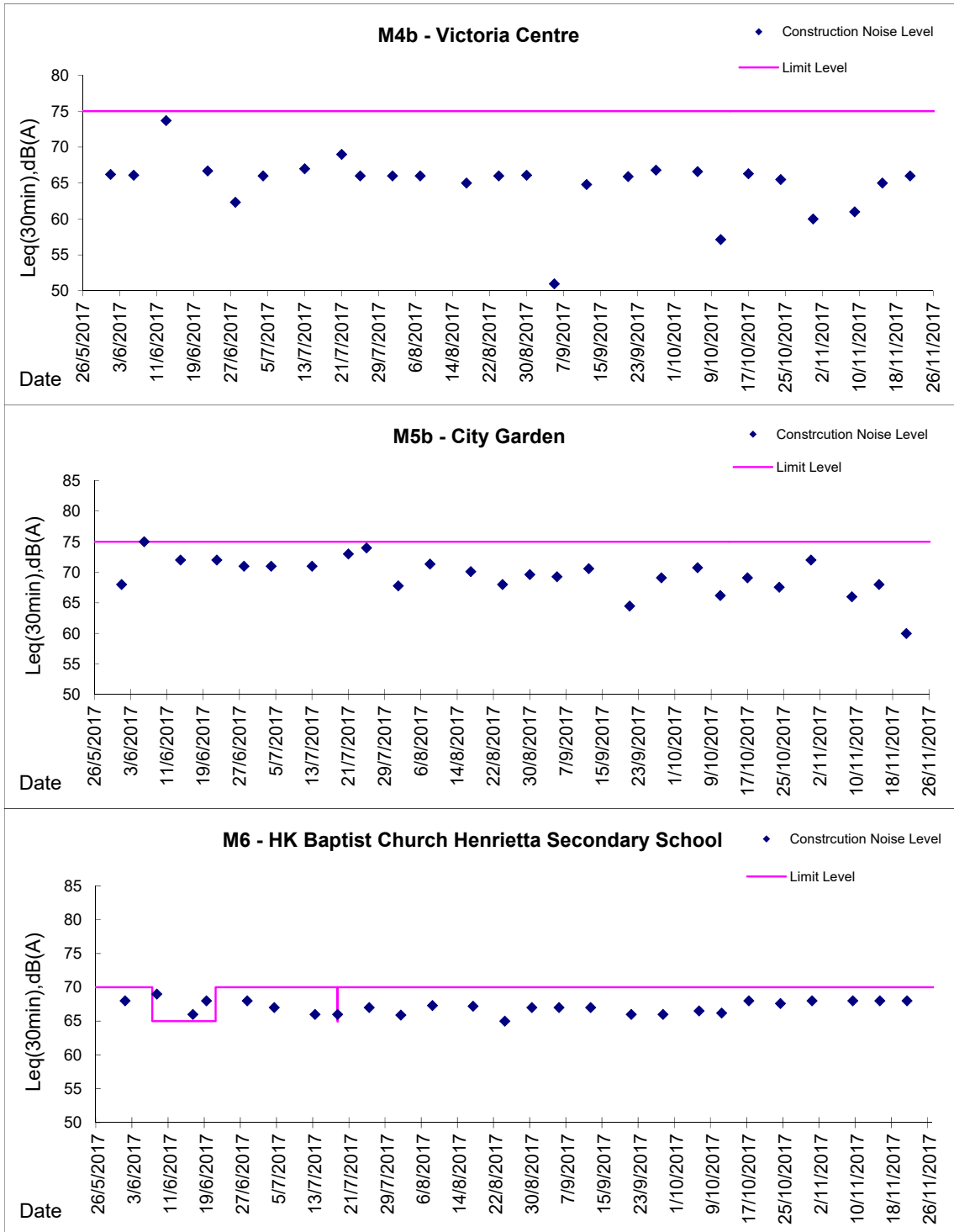
Day Time (0700 - 1900hrs on normal weekdays)





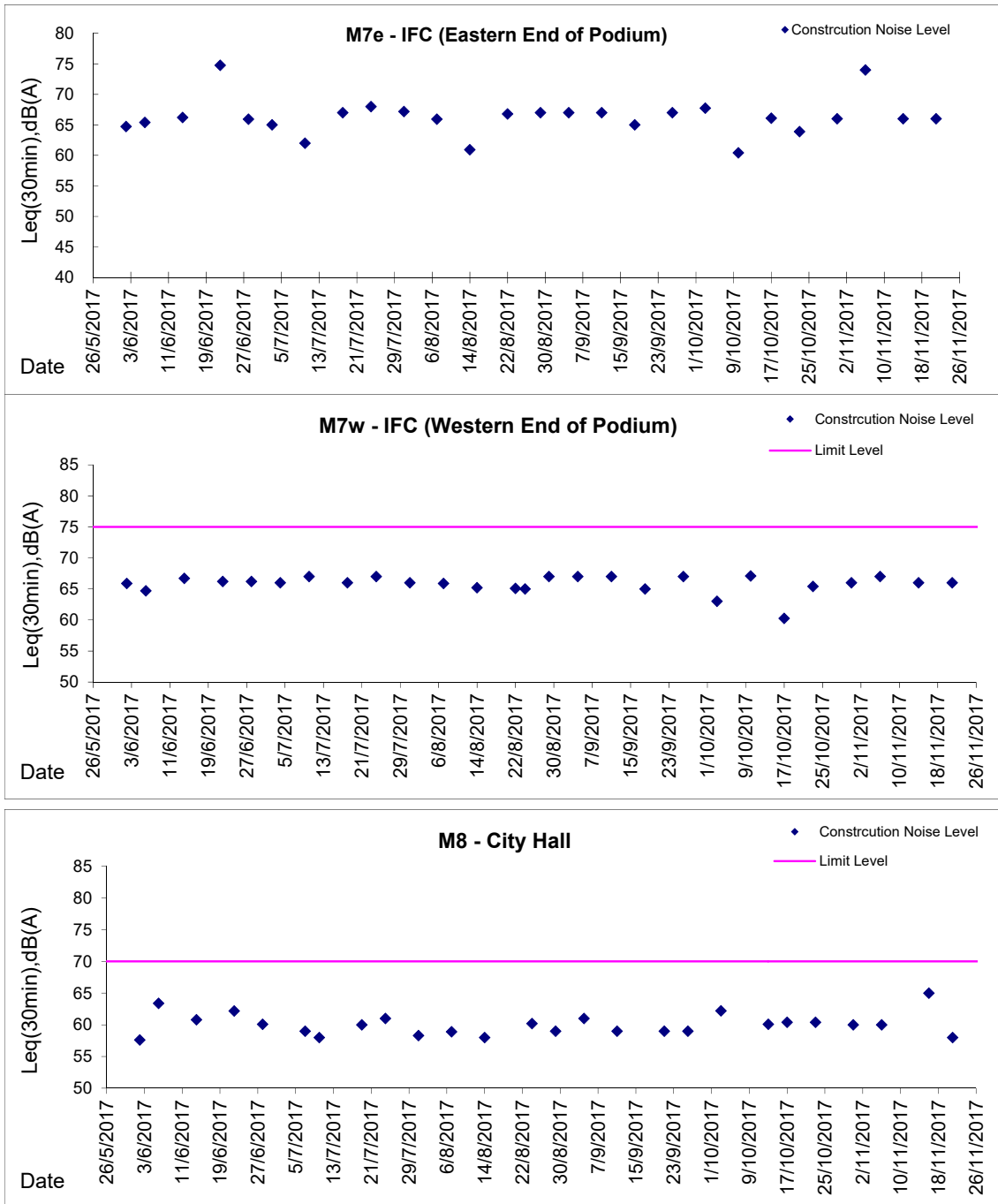
Graphic Presentation of Noise Monitoring Result

Day Time (0700 - 1900hrs on normal weekdays)



Graphic Presentation of Noise Monitoring Result

Day Time (0700 - 1900hrs on normal weekdays)



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



Appendix 5.3

Air Quality Monitoring Results and Graphical Presentations



Location: CMA1b - Harbour Grand Hotel Boundary Wall

Report on 24-hour TSP monitoring

Action Level ($\mu\text{g}/\text{m}^3$) - 176.7

Limit Level ($\mu\text{g}/\text{m}^3$) - 260

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
31-Oct-17	8:00	Fine	22782	2.7851	2.9112	10796.36	10820.36	24.00	1.24	1.23	1.23	1778	70.9
6-Nov-17	8:00	Cloudy	22871	2.6604	2.7714	10823.36	10847.36	24.00	1.12	1.12	1.12	1614	68.8
11-Nov-17	8:00	Cloudy	22942	2.6740	2.8373	10850.36	10874.36	24.00	1.12	1.12	1.12	1612	101.3
17-Nov-17	8:00	Fine	23108	2.6689	2.7637	10877.37	10901.37	24.00	1.12	1.12	1.12	1609	58.9
23-Nov-17	8:00	Fine	23052	2.6908	2.8596	10904.41	10928.41	24.00	1.19	1.19	1.19	1718	98.3

Report on 1-hour TSP monitoring

Action Level ($\mu\text{g}/\text{m}^3$) - 320.1

Limit Level ($\mu\text{g}/\text{m}^3$) - 500

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
1-Nov-17	9:05	Fine	22890	2.6621	2.6731	10820.36	10821.36	1.00	1.12	1.12	1.12	67	163.4
1-Nov-17	10:55	Fine	22887	2.6626	2.6695	10821.36	10822.36	1.00	1.23	1.23	1.23	74	93.3
1-Nov-17	14:00	Fine	22761	2.7735	2.7826	10822.36	10823.36	1.00	1.23	1.23	1.23	74	123.0
7-Nov-17	8:17	Cloudy	22904	2.6637	2.6720	10847.36	10848.36	1.00	1.12	1.12	1.12	67	123.5
7-Nov-17	10:25	Cloudy	22725	2.8160	2.8228	10848.36	10849.36	1.00	1.12	1.12	1.12	67	101.2
7-Nov-17	13:00	Cloudy	22733	2.8085	2.8194	10849.36	10850.36	1.00	1.12	1.12	1.12	67	162.2
13-Nov-17	13:00	Cloudy	22937	2.6869	2.6914	10874.36	10875.36	1.00	1.12	1.12	1.12	67	66.9
13-Nov-17	14:15	Cloudy	22932	2.6746	2.6824	10875.36	10876.36	1.00	1.12	1.12	1.12	67	115.9
13-Nov-17	16:30	Cloudy	22969	2.6725	2.6821	10876.36	10877.36	1.00	1.12	1.12	1.12	67	142.7
18-Nov-17	8:02	Fine	23043	2.6862	2.6917	10901.37	10902.37	1.00	1.12	1.12	1.12	67	82.0
18-Nov-17	9:04	Fine	23037	2.6653	2.6707	10902.37	10903.37	1.00	1.12	1.12	1.12	67	80.5
18-Nov-17	10:06	Fine	23047	2.6699	2.6727	10903.37	10904.37	1.00	1.12	1.12	1.12	67	41.8
24-Nov-17	8:35	Fine	23098	2.6615	2.6697	10928.41	10929.41	1.00	1.19	1.19	1.19	72	114.5
24-Nov-17	10:05	Fine	22949	2.6655	2.6688	10929.41	10930.41	1.00	1.19	1.19	1.19	72	46.1
24-Nov-17	13:15	Fine	23201	2.6811	2.6937	10930.41	10931.41	1.00	1.19	1.19	1.19	72	176.0



Location: CMA2a - Causeway Bay Community Centre

Report on 24-hour TSP monitoring

Action Level ($\mu\text{g}/\text{m}^3$) - 169.5

Limit Level ($\mu\text{g}/\text{m}^3$) - 260

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
31-Oct-17	8:00	Fine	22781	2.7757	2.9610	20368.24	20392.24	24.00	1.32	1.32	1.32	1903	97.4
6-Nov-17	8:00	Cloudy	22873	2.6732	2.8005	20395.24	20419.24	24.00	1.32	1.32	1.32	1898	67.1
11-Nov-17	8:00	Cloudy	22944	2.6739	2.8032	20422.24	20446.24	24.00	1.26	1.26	1.26	1816	71.2
17-Nov-17	8:00	Fine	23109	2.6636	2.7902	20449.24	20473.24	24.00	1.31	1.31	1.31	1894	66.9
23-Nov-17	8:00	Fine	23053	2.6756	2.8496	20476.27	20500.27	24.00	1.18	1.18	1.18	1704	102.1

Report on 1-hour TSP monitoring

Action Level ($\mu\text{g}/\text{m}^3$) - 323.4

Limit Level ($\mu\text{g}/\text{m}^3$) - 500

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
1-Nov-17	9:00	Fine	22900	2.6783	2.6847	20392.24	20393.24	1.00	1.26	1.26	1.26	76	84.4
1-Nov-17	11:00	Fine	22886	2.6626	2.6712	20393.24	20394.24	1.00	1.21	1.21	1.21	72	118.7
1-Nov-17	14:05	Fine	22760	2.7716	2.7803	20394.24	20395.24	1.00	1.21	1.21	1.21	72	120.0
7-Nov-17	8:20	Cloudy	22903	2.6686	2.6763	20419.24	20420.24	1.00	1.32	1.32	1.32	79	97.4
7-Nov-17	10:20	Cloudy	22724	2.8239	2.8299	20420.24	20421.24	1.00	1.21	1.21	1.21	72	82.9
7-Nov-17	13:00	Cloudy	22732	2.7893	2.7959	20421.24	20422.24	1.00	1.21	1.21	1.21	72	91.2
13-Nov-17	13:00	Cloudy	22936	2.6737	2.6778	20446.24	20447.24	1.00	1.29	1.29	1.29	77	52.9
13-Nov-17	14:26	Cloudy	22931	2.6557	2.6587	20447.24	20448.24	1.00	1.21	1.21	1.21	72	41.4
13-Nov-17	16:33	Cloudy	22968	2.6755	2.6789	20448.24	20449.24	1.00	1.26	1.21	1.24	74	45.9
18-Nov-17	8:05	Fine	23044	2.6772	2.6821	20473.24	20474.24	1.00	1.26	1.26	1.26	76	64.8
18-Nov-17	9:17	Fine	23036	2.6848	2.6882	20474.24	20475.24	1.00	1.20	1.20	1.20	72	47.1
18-Nov-17	10:20	Fine	23045	2.6798	2.6833	20475.24	20476.24	1.00	1.20	1.20	1.20	72	48.5
24-Nov-17	8:40	Fine	23084	2.6705	2.6778	20500.27	20501.27	1.00	1.18	1.18	1.18	71	102.8
24-Nov-17	10:13	Fine	22948	2.6715	2.6764	20501.27	20502.27	1.00	1.18	1.18	1.18	71	69.0
24-Nov-17	13:15	Fine	23075	2.6596	2.6664	20502.27	20503.27	1.00	1.18	1.18	1.18	71	95.8



Location: CMA3a - CWB PRE Site Office Area

Report on 24-hour TSP monitoring

Action Level ($\mu\text{g}/\text{m}^3$) - 171

Limit Level ($\mu\text{g}/\text{m}^3$) - 260

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
1-Nov-17	15:45	Fine	22897	2.6967	2.8185	7864.90	7888.90	24.00	1.13	1.13	1.13	1628	74.8
6-Nov-17	8:00	Cloudy	22883	2.6734	2.7871	7888.91	7912.91	24.00	1.13	1.13	1.13	1629	69.8
11-Nov-17	8:00	Cloudy	22989	2.6728	2.7976	7916.19	7940.19	24.00	1.09	1.10	1.10	1577	79.1
17-Nov-17	8:00	Fine	23111	2.6637	2.7966	7943.19	7967.19	24.00	1.13	1.13	1.13	1623	81.9
23-Nov-17	8:00	Fine	23056	2.6924	2.8510	7970.24	7994.24	24.00	1.00	1.01	1.01	1448	109.5

Remarks: Due to interruption of electricity, the 24hr TSP monitoring was rescheduled from 31 October 2017 to 1 November 2017.

Report on 1-hour TSP monitoring

Action Level ($\mu\text{g}/\text{m}^3$) - 311.3

Limit Level ($\mu\text{g}/\text{m}^3$) - 500

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
1-Nov-17	8:47	Fine	22907	2.6547	2.6603	7861.90	7862.90	1.00	1.13	1.13	1.13	68	82.4
1-Nov-17	10:47	Fine	22888	2.6635	2.6678	7862.90	7863.90	1.00	1.13	1.13	1.13	68	63.3
1-Nov-17	13:25	Fine	22885	2.6676	2.6741	7863.90	7864.90	1.00	1.13	1.13	1.13	68	95.6
7-Nov-17	8:02	Cloudy	22905	2.6714	2.6788	7912.91	7913.91	1.00	1.13	1.13	1.13	68	109.1
7-Nov-17	10:03	Cloudy	22738	2.7865	2.7915	7913.91	7914.91	1.00	1.13	1.13	1.13	68	73.7
7-Nov-17	13:00	Cloudy	22735	2.8152	2.8191	7914.91	7915.91	1.00	1.13	1.13	1.13	68	57.5
13-Nov-17	13:00	Cloudy	22935	2.6860	2.6883	7940.19	7941.19	1.00	1.13	1.13	1.13	68	33.9
13-Nov-17	14:32	Cloudy	22933	2.6766	2.6794	7941.19	7942.19	1.00	1.13	1.13	1.13	68	41.2
13-Nov-17	16:15	Cloudy	22929	2.6607	2.6644	7942.19	7943.19	1.00	1.13	1.13	1.13	68	54.5
18-Nov-17	8:20	Fine	23035	2.6723	2.6781	7967.19	7968.19	1.00	1.13	1.13	1.13	68	85.8
18-Nov-17	9:35	Fine	23039	2.6854	2.6911	7968.19	7969.19	1.00	1.13	1.13	1.13	68	84.3
18-Nov-17	10:37	Fine	23049	2.6734	2.6794	7969.19	7970.19	1.00	1.13	1.13	1.13	68	88.7
24-Nov-17	8:20	Fine	23099	2.6599	2.6641	7994.24	7995.24	1.00	1.01	1.01	1.01	60	69.6
24-Nov-17	10:45	Fine	23092	2.6742	2.6810	7995.24	7996.24	1.00	1.01	1.01	1.01	60	112.6
24-Nov-17	13:00	Fine	23077	2.6697	2.6806	7996.24	7997.24	1.00	1.01	1.01	1.01	60	180.5



Location: CMA4a - SPCA

Report on 24-hour TSP monitoring

Action Level ($\mu\text{g}/\text{m}^3$) - 171.2
 Limit Level ($\mu\text{g}/\text{m}^3$) - 260

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
31-Oct-17	8:00	Fine	22778	2.7512	2.9416	24673.73	24697.73	24.00	1.33	1.33	1.33	1912	99.6
6-Nov-17	8:00	Cloudy	22898	2.6627	2.7879	24700.73	24724.73	24.00	1.27	1.27	1.27	1824	68.6
11-Nov-17	8:00	Cloudy	22984	2.6652	2.7772	24727.73	24751.73	24.00	1.21	1.27	1.24	1781	62.9
18-Nov-17	16:00	Fine	23061	2.6740	2.7516	24761.12	24785.12	24.00	1.21	1.22	1.21	1744	44.5
23-Nov-17	8:00	Fine	22862	2.6714	2.8208	24785.17	24809.17	24.00	1.26	1.26	1.26	1813	82.4

Remarks: Due to interruption of electricity, the 24hr TSP monitoring was rescheduled from 17 November 2017 to 18 November 2017.

Report on 1-hour TSP monitoring

Action Level ($\mu\text{g}/\text{m}^3$) - 312.5
 Limit Level ($\mu\text{g}/\text{m}^3$) - 500

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
1-Nov-17	8:45	Fine	22899	2.6626	2.6695	24697.73	24698.73	1.00	1.33	1.33	1.33	80	86.7
1-Nov-17	10:40	Fine	22889	2.6531	2.6584	24698.73	24699.73	1.00	1.21	1.21	1.21	73	73.0
1-Nov-17	13:15	Fine	22759	2.7666	2.7717	24699.73	24700.73	1.00	1.21	1.21	1.21	73	70.2
7-Nov-17	8:05	Cloudy	22891	2.6691	2.6757	24724.73	24725.73	1.00	1.24	1.24	1.24	74	88.9
7-Nov-17	10:00	Cloudy	22722	2.8278	2.8315	24725.73	24726.73	1.00	1.21	1.21	1.21	72	51.0
7-Nov-17	13:00	Cloudy	22730	2.8268	2.8314	24726.73	24727.73	1.00	1.21	1.21	1.21	72	63.5
13-Nov-17	13:00	Cloudy	22934	2.6654	2.6697	24751.73	24752.73	1.00	1.21	1.21	1.21	73	59.2
13-Nov-17	14:36	Cloudy	22930	2.6535	2.6598	24752.73	24753.73	1.00	1.21	1.21	1.21	73	86.8
13-Nov-17	16:17	Cloudy	22928	2.6569	2.6627	24753.73	24754.73	1.00	1.24	1.24	1.24	74	78.0
18-Nov-17	8:15	Fine	23034	2.6775	2.6826	24758.12	24759.12	1.00	1.21	1.21	1.21	72	70.5
18-Nov-17	9:20	Fine	23048	2.6621	2.6695	24759.12	24760.12	1.00	1.21	1.21	1.21	72	102.3
18-Nov-17	10:25	Fine	23051	2.6937	2.6988	24760.12	24761.12	1.00	1.21	1.21	1.21	72	70.5
24-Nov-17	8:15	Fine	23083	2.6632	2.6710	24809.17	24810.17	1.00	1.26	1.26	1.26	76	103.2
24-Nov-17	10:50	Fine	23086	2.6688	2.6747	24810.17	24811.17	1.00	1.26	1.26	1.26	76	78.1
24-Nov-17	13:00	Fine	23076	2.6508	2.6578	24811.17	24812.17	1.00	1.26	1.26	1.26	76	92.6



Location: CMA5b - Pedestrian Plaza

Report on 24-hour TSP monitoring

Action Level ($\mu\text{g}/\text{m}^3$) - 181

Limit Level ($\mu\text{g}/\text{m}^3$) - 260

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
31-Oct-17	8:00	Fine	22756	2.8035	3.0340	9257.55	9281.55	24.00	0.93	0.93	0.93	1339	172.1
6-Nov-17	8:00	Cloudy	22827	2.6707	2.7959	9284.55	9308.55	24.00	0.78	0.78	0.78	1129	110.9
13-Nov-17	15:00	Cloudy	22863	2.6703	2.7792	9338.25	9362.25	24.00	0.93	0.93	0.93	1334	81.6
17-Nov-17	8:00	Fine	23110	2.6787	2.8693	9362.26	9386.26	24.00	0.92	0.92	0.92	1327	143.6
23-Nov-17	8:00	Fine	23057	2.6831	2.8822	9389.31	9413.31	24.00	0.77	0.78	0.78	1116	178.4

Remarks: Due to interruption of electricity, the 24hr TSP monitoring was rescheduled from 11 November 2017 to 13 November 2017.

Report on 1-hour TSP monitoring

Action Level ($\mu\text{g}/\text{m}^3$) - 332

Limit Level ($\mu\text{g}/\text{m}^3$) - 500

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
1-Nov-17	8:40	Fine	22881	2.6845	2.7000	9281.55	9282.55	1.00	0.93	0.93	0.93	56	278.5
1-Nov-17	9:50	Fine	21886	2.8480	2.8735	9282.55	9283.55	1.00	1.11	1.11	1.11	66	384.5
1-Nov-17	10:55	Fine	22875	2.6697	2.6818	9283.55	9284.55	1.00	0.93	0.93	0.93	56	217.4
7-Nov-17	8:50	Cloudy	22902	2.6593	2.6706	9308.55	9309.55	1.00	0.92	0.92	0.92	55	203.7
7-Nov-17	10:40	Cloudy	22726	2.8037	2.8168	9309.55	9310.55	1.00	0.92	0.92	0.92	55	236.2
7-Nov-17	13:00	Cloudy	22734	2.8032	2.8134	9310.55	9311.55	1.00	0.92	0.92	0.92	55	183.9
13-Nov-17	9:20	Cloudy	22938	2.6714	2.6766	9335.25	9336.25	1.00	0.78	0.86	0.82	49	105.6
13-Nov-17	10:40	Cloudy	22779	2.7918	2.7955	9336.25	9337.25	1.00	0.78	0.86	0.82	49	75.2
13-Nov-17	13:00	Cloudy	22868	2.6750	2.6791	9337.25	9338.25	1.00	0.93	0.93	0.93	56	73.7
18-Nov-17	8:45	Fine	23042	2.6752	2.6851	9386.26	9387.26	1.00	0.92	0.92	0.92	55	179.0
18-Nov-17	9:50	Fine	23038	2.6765	2.6870	9387.26	9388.26	1.00	0.92	0.92	0.92	55	189.9
18-Nov-17	10:55	Fine	23050	2.6784	2.6864	9388.26	9389.26	1.00	0.85	0.85	0.85	51	156.7
24-Nov-17	9:15	Fine	23085	2.6705	2.6938	9413.31	9414.31	1.00	0.99	0.99	0.99	60	391.3
24-Nov-17	11:00	Fine	23087	2.6688	2.6899	9414.31	9415.31	1.00	0.92	0.92	0.92	55	382.1
24-Nov-17	14:00	Fine	23200	2.6811	2.7109	9415.31	9416.31	1.00	0.99	0.99	0.99	60	500.4



Location: MA1e - International Finance Centre (Eastern Wing)

Report on 24-hour TSP monitoring

Action Level ($\mu\text{g}/\text{m}^3$) - 173.4

Limit Level ($\mu\text{g}/\text{m}^3$) - 260

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
31-Oct-17	8:00	Fine	22573	2.8612	2.9449	21565.99	21589.99	24.00	1.13	1.13	1.13	1625	51.5
6-Nov-17	8:00	Cloudy	22436	2.8677	2.9615	21592.99	21616.99	24.00	1.22	1.21	1.21	1749	53.6
11-Nov-17	8:00	Cloudy	22991	2.6771	2.8006	21619.99	21643.99	24.00	1.18	1.19	1.18	1705	72.4
17-Nov-17	8:00	Fine	23117	2.6758	2.7566	21646.99	21670.99	24.00	1.12	1.12	1.12	1616	50.0
23-Nov-17	8:00	Fine	23029	2.6833	2.8510	21673.99	21697.99	24.00	1.22	1.22	1.22	1762	95.2

Report on 1-hour TSP monitoring

Action Level ($\mu\text{g}/\text{m}^3$) - 325.1

Limit Level ($\mu\text{g}/\text{m}^3$) - 500

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
1-Nov-17	8:32	Fine	22744	2.8024	2.8068	21589.99	21590.99	1.00	1.25	1.25	1.25	75	58.8
1-Nov-17	9:36	Fine	22741	2.8089	2.8121	21590.99	21591.99	1.00	1.19	1.19	1.19	71	45.0
1-Nov-17	10:40	Fine	21084	2.8924	2.8970	21591.99	21592.99	1.00	1.19	1.19	1.19	71	64.6
7-Nov-17	9:35	Cloudy	22719	2.8610	2.8692	21616.99	21617.99	1.00	1.24	1.24	1.24	75	109.9
7-Nov-17	13:00	Cloudy	22728	2.7849	2.7870	21617.99	21618.99	1.00	1.12	1.12	1.12	67	31.1
7-Nov-17	14:05	Cloudy	22996	2.6817	2.6876	21618.99	21619.99	1.00	1.24	1.24	1.24	75	79.1
13-Nov-17	8:47	Cloudy	22961	2.6808	2.6818	21643.99	21644.99	1.00	1.25	1.25	1.25	75	13.4
13-Nov-17	9:50	Cloudy	22958	2.6909	2.6925	21644.99	21645.99	1.00	1.16	1.16	1.16	69	23.1
13-Nov-17	10:53	Cloudy	22955	2.6852	2.6889	21645.99	21646.99	1.00	1.13	1.13	1.13	68	54.7
18-Nov-17	8:27	Fine	22967	2.6780	2.6835	21670.99	21671.99	1.00	1.15	1.15	1.15	69	79.6
18-Nov-17	9:32	Fine	22425	2.8441	2.8490	21671.99	21672.99	1.00	1.18	1.24	1.21	73	67.4
18-Nov-17	10:37	Fine	23032	2.6797	2.6850	21672.99	21673.99	1.00	1.24	1.24	1.24	74	71.2
24-Nov-17	10:00	Fine	23095	2.6698	2.6761	21697.99	21698.99	1.00	1.22	1.22	1.22	73	85.8
24-Nov-17	13:00	Fine	23079	2.6790	2.6868	21698.99	21699.99	1.00	1.22	1.22	1.22	73	106.2
24-Nov-17	14:50	Fine	23197	2.6778	2.6856	21699.99	21700.99	1.00	1.22	1.22	1.22	73	106.2



Location: MA1w - International Finance Centre (Western Wing)

Report on 24-hour TSP monitoring

Action Level ($\mu\text{g}/\text{m}^3$) - 173.4
Limit Level ($\mu\text{g}/\text{m}^3$) - 260

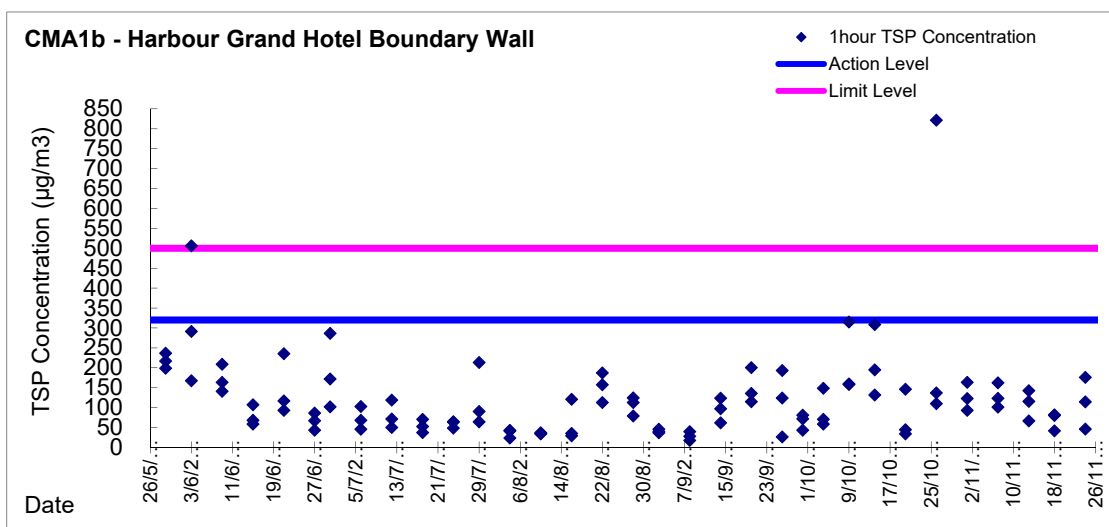
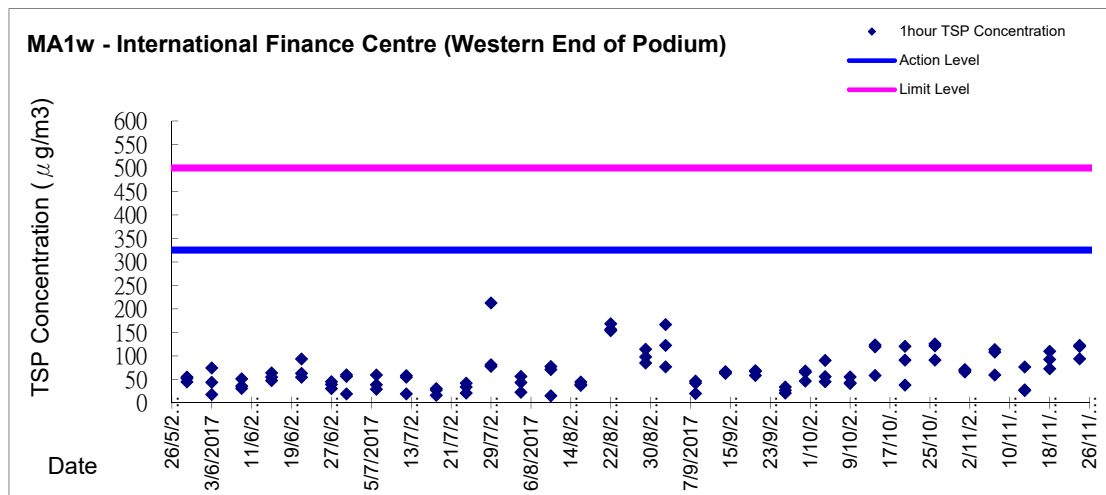
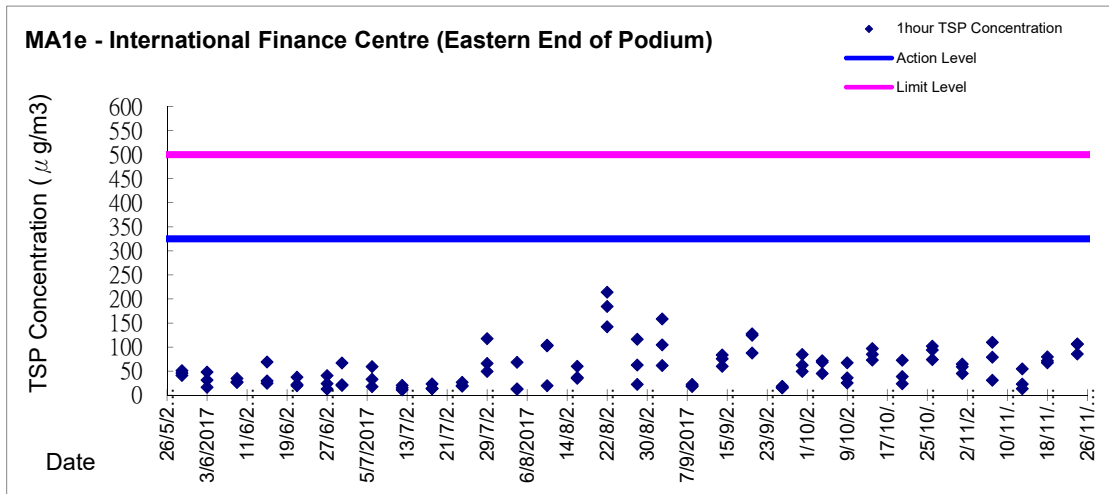
Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
31-Oct-17	8:00	Fine	22576	2.8608	3.0347	21353.20	21377.20	24.00	1.27	1.27	1.27	1825	95.3
6-Nov-17	8:00	Cloudy	22435	2.8562	2.9923	21380.20	21404.20	24.00	1.27	1.26	1.26	1821	74.8
11-Nov-17	8:00	Cloudy	22992	2.6654	2.8198	21407.20	21431.20	24.00	1.26	1.27	1.26	1819	84.9
17-Nov-17	8:00	Fine	23116	2.6878	2.8608	21434.76	21458.76	24.00	1.26	1.26	1.26	1816	95.3
23-Nov-17	8:00	Fine	23028	2.6627	2.8314	21461.82	21485.82	24.00	1.35	1.35	1.35	1942	86.9

Report on 1-hour TSP monitoring

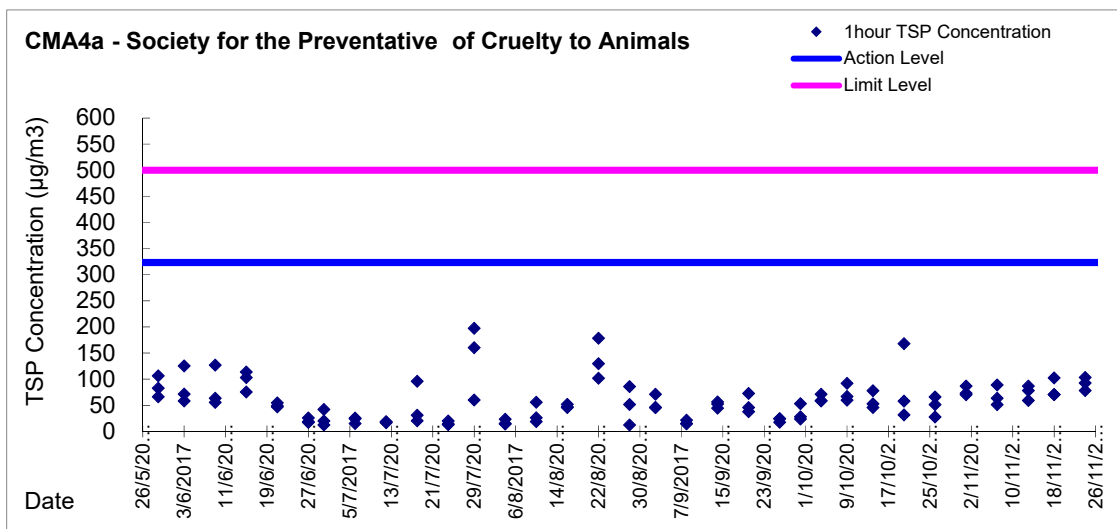
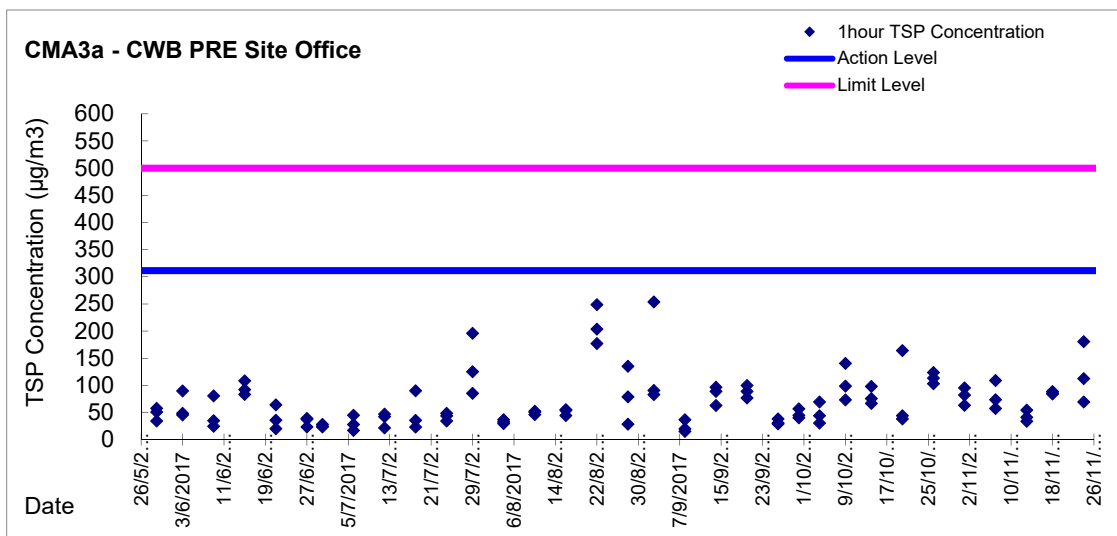
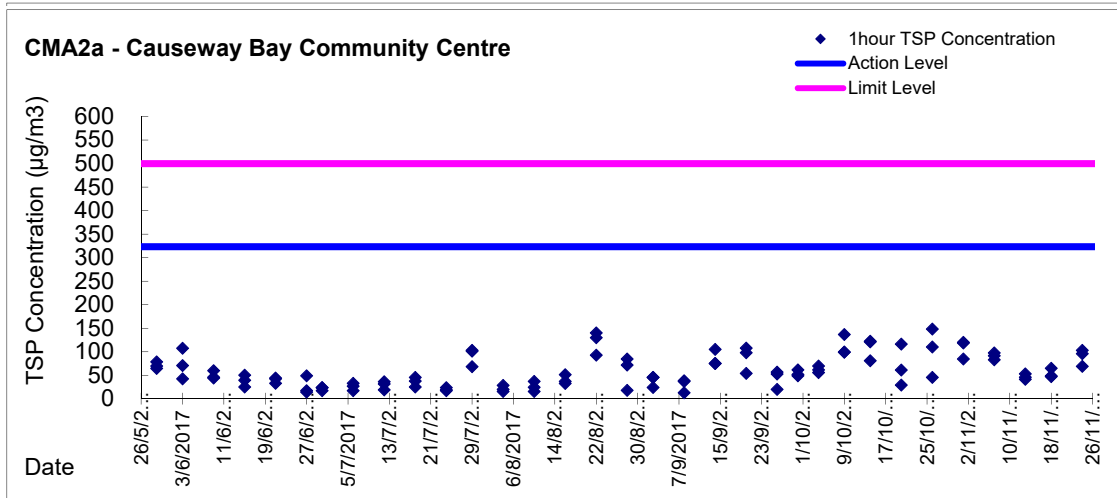
Action Level ($\mu\text{g}/\text{m}^3$) - 325.1
Limit Level ($\mu\text{g}/\text{m}^3$) - 500

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
1-Nov-17	8:25	Fine	22745	2.7841	2.7891	21377.20	21378.20	1.00	1.27	1.27	1.27	76	65.8
1-Nov-17	9:28	Fine	22742	2.8104	2.8156	21378.20	21379.20	1.00	1.27	1.27	1.27	76	68.5
1-Nov-17	10:32	Fine	22469	2.8496	2.8550	21379.20	21380.20	1.00	1.27	1.27	1.27	76	71.1
7-Nov-17	9:40	Cloudy	22720	2.8620	2.8706	21404.20	21405.20	1.00	1.26	1.26	1.26	76	113.4
7-Nov-17	13:00	Cloudy	22727	2.7967	2.8012	21405.20	21406.20	1.00	1.26	1.26	1.26	76	59.4
7-Nov-17	14:10	Cloudy	22995	2.6735	2.6817	21406.20	21407.20	1.00	1.26	1.26	1.26	76	108.2
13-Nov-17	8:52	Cloudy	22960	2.6822	2.6842	21431.20	21432.20	1.00	1.27	1.27	1.27	76	26.3
13-Nov-17	9:55	Cloudy	22957	2.6884	2.6905	21432.20	21433.20	1.00	1.27	1.27	1.27	76	27.7
13-Nov-17	10:58	Cloudy	22954	2.6841	2.6899	21433.20	21434.20	1.00	1.27	1.27	1.27	76	76.4
18-Nov-17	8:35	Fine	22966	2.6918	2.6988	21458.76	21459.76	1.00	1.26	1.26	1.26	76	92.5
18-Nov-17	9:38	Fine	22970	2.6917	2.6972	21459.76	21460.76	1.00	1.26	1.26	1.26	76	72.7
18-Nov-17	10:47	Fine	23031	2.6859	2.6942	21460.76	21461.76	1.00	1.26	1.26	1.26	76	109.7
24-Nov-17	10:05	Fine	23094	2.6764	2.6843	21485.82	21486.82	1.00	1.40	1.40	1.40	84	93.8
24-Nov-17	13:00	Fine	23089	2.6578	2.6681	21486.82	21487.82	1.00	1.40	1.40	1.40	84	122.3
24-Nov-17	14:55	Fine	23195	2.6717	2.6818	21487.82	21488.82	1.00	1.40	1.40	1.40	84	120.0

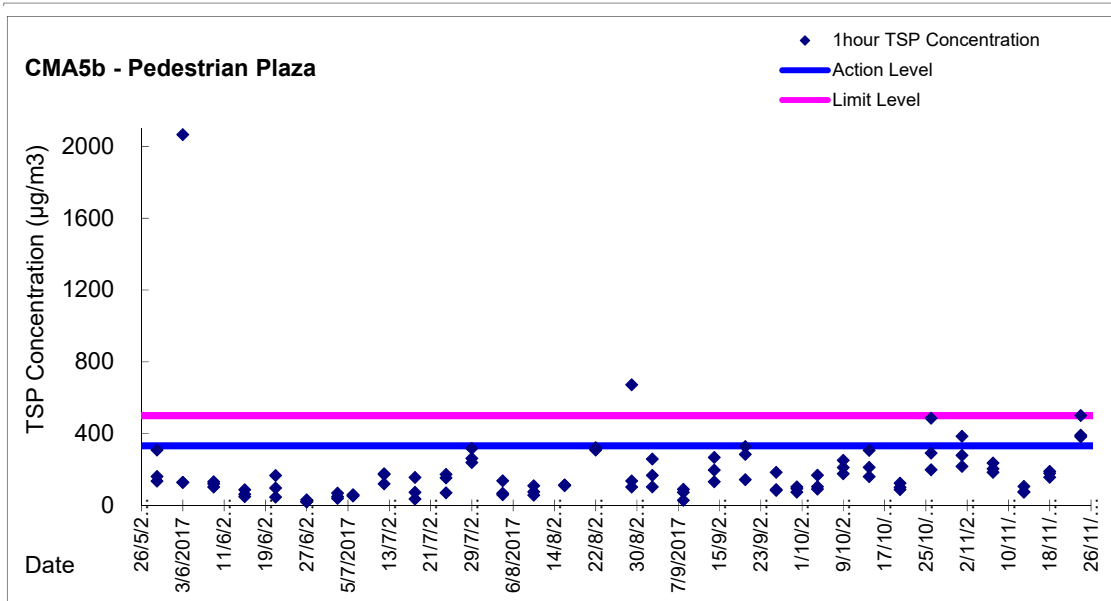
Graphic Presentation of 1 hour TSP Result



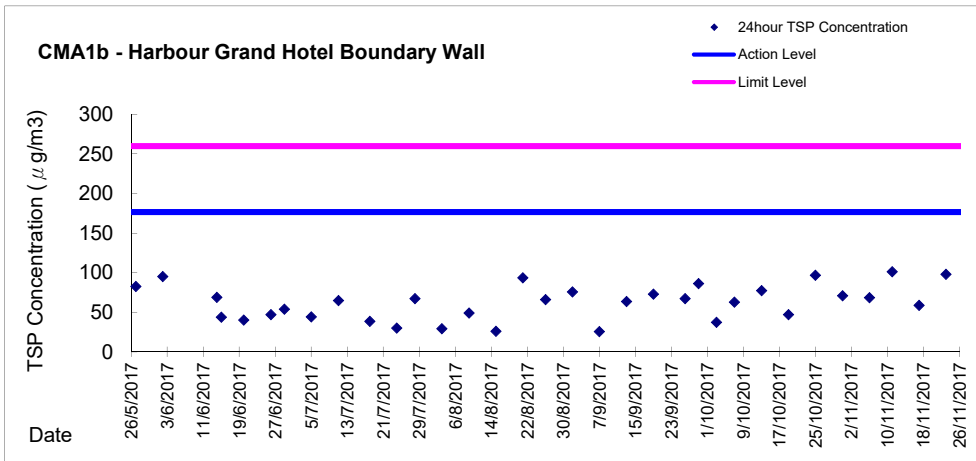
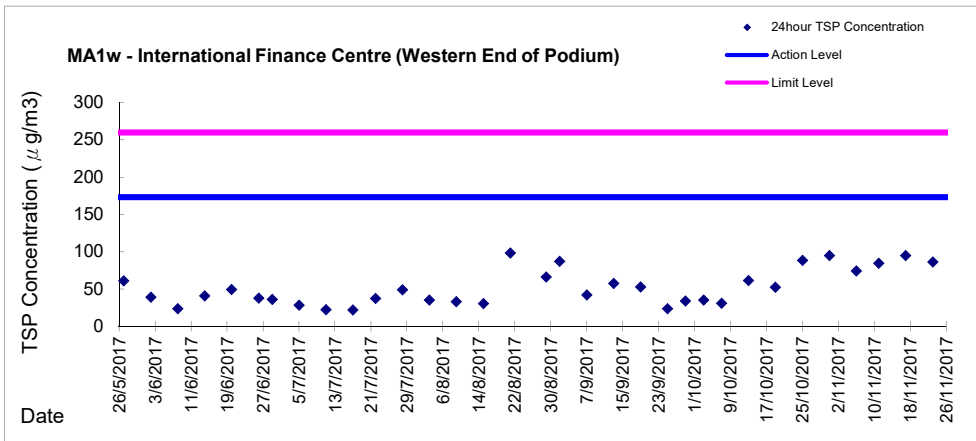
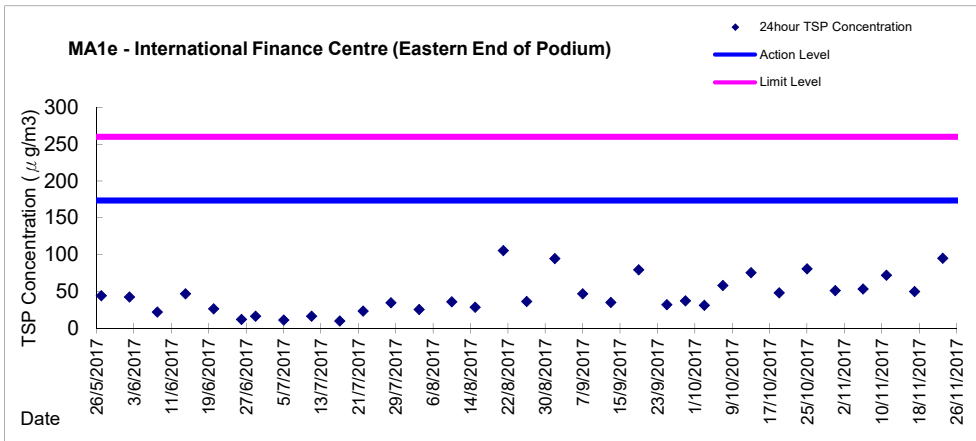
Graphic Presentation of 1 hour TSP Result



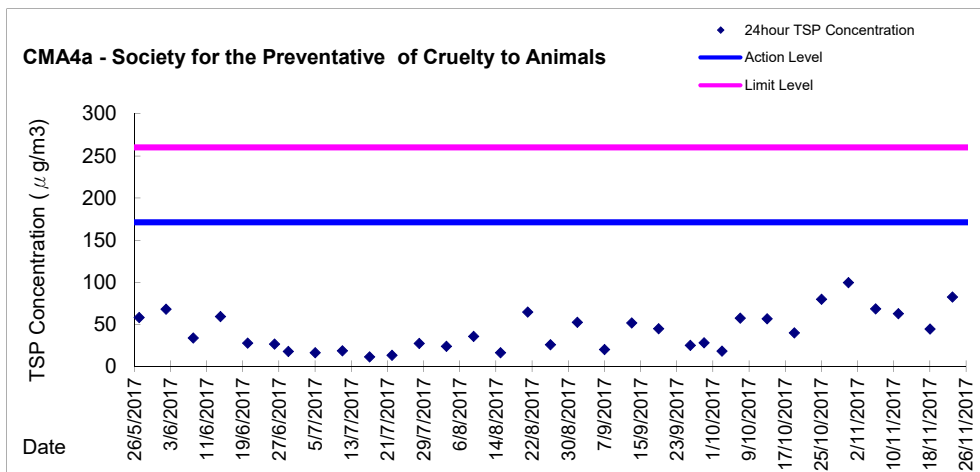
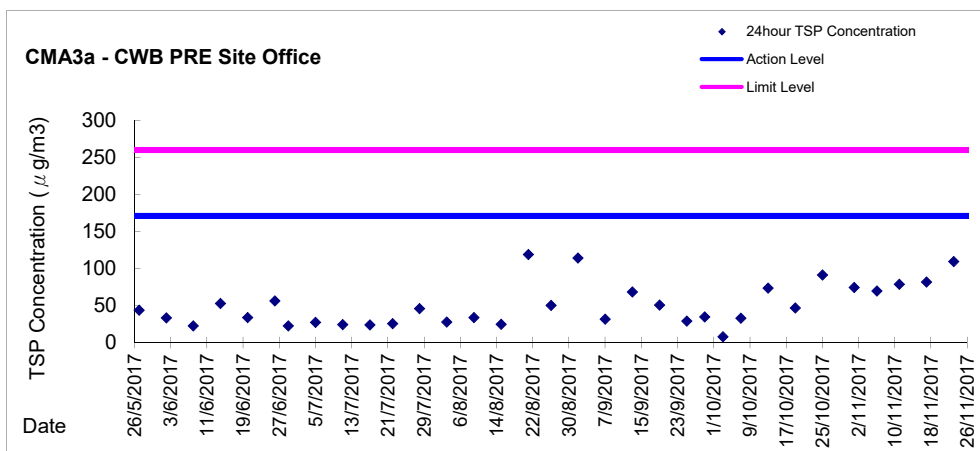
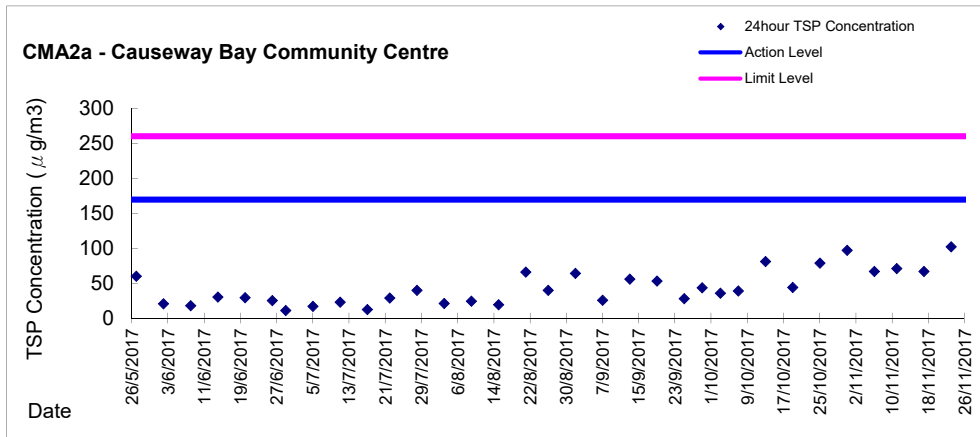
Graphic Presentation of 1 hour TSP Result



Graphic Presentation of 24 hour TSP Result

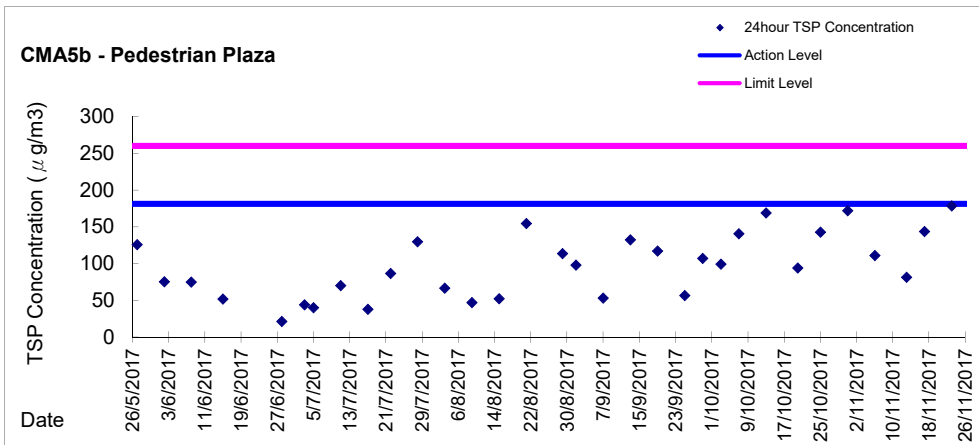


Graphic Presentation of 24 hour TSP Result





Graphic Presentation of 24 hour TSP Result





Appendix 5.4
Real Time Noise Monitoring Results and Graphical Presentations

Real-time Noise Data	RTN1 (Food and Environmental Hygiene Department Depot)				
6/11/2017 0:11	61	7/11/2017 1:16	46	8/11/2017 2:21	61
6/11/2017 0:16	59	7/11/2017 1:21	58	8/11/2017 2:26	62
6/11/2017 0:21	58	7/11/2017 1:26	43	8/11/2017 2:31	61
6/11/2017 0:26	60	7/11/2017 1:31	51	8/11/2017 2:36	62
6/11/2017 0:31	56	7/11/2017 1:36	62	8/11/2017 2:41	61
6/11/2017 0:36	60	7/11/2017 1:41	46	8/11/2017 2:46	61
6/11/2017 0:41	54	7/11/2017 1:46	61	8/11/2017 2:51	61
6/11/2017 0:46	57	7/11/2017 1:51	62	8/11/2017 2:56	61
6/11/2017 0:51	62	7/11/2017 1:56	55	8/11/2017 3:01	61
6/11/2017 0:56	58	7/11/2017 2:01	47	8/11/2017 3:06	61
6/11/2017 1:01	50	7/11/2017 2:06	61	8/11/2017 3:11	60
6/11/2017 1:06	51	7/11/2017 2:11	62	8/11/2017 3:16	61
6/11/2017 1:11	46	7/11/2017 2:16	60	8/11/2017 3:21	60
6/11/2017 1:16	61	7/11/2017 2:21	60	8/11/2017 3:26	60
6/11/2017 1:21	61	7/11/2017 2:26	61	8/11/2017 3:31	56
6/11/2017 1:26	61	7/11/2017 2:31	60	8/11/2017 3:36	61
6/11/2017 1:31	61	7/11/2017 2:36	61	8/11/2017 3:41	60
6/11/2017 1:36	61	7/11/2017 2:41	61	8/11/2017 3:46	61
6/11/2017 1:41	60	7/11/2017 2:46	61	8/11/2017 3:51	60
6/11/2017 1:46	60	7/11/2017 2:51	60	8/11/2017 3:56	60
6/11/2017 1:51	60	7/11/2017 2:56	60	8/11/2017 4:01	60
6/11/2017 1:56	60	7/11/2017 3:01	60	8/11/2017 4:06	60
6/11/2017 2:01	59	7/11/2017 3:06	61	8/11/2017 4:11	61
6/11/2017 2:06	61	7/11/2017 3:11	60	8/11/2017 4:16	60
6/11/2017 2:11	60	7/11/2017 3:16	61	8/11/2017 4:21	60
6/11/2017 2:16	60	7/11/2017 3:21	60	8/11/2017 4:26	62
6/11/2017 2:21	61	7/11/2017 3:26	60	8/11/2017 4:31	61
6/11/2017 2:26	60	7/11/2017 3:31	59	8/11/2017 4:36	59
6/11/2017 2:31	62	7/11/2017 3:36	60	8/11/2017 4:41	60
6/11/2017 2:36	61	7/11/2017 3:41	59	8/11/2017 4:46	61
6/11/2017 2:41	60	7/11/2017 3:46	60	8/11/2017 4:51	60
6/11/2017 2:46	60	7/11/2017 3:51	61	8/11/2017 4:56	61
6/11/2017 2:51	60	7/11/2017 3:56	60	8/11/2017 5:01	49
6/11/2017 2:56	59	7/11/2017 4:01	60	8/11/2017 5:06	61
6/11/2017 3:01	59	7/11/2017 4:06	60	8/11/2017 5:11	61
6/11/2017 3:06	59	7/11/2017 4:11	60	8/11/2017 5:16	61
6/11/2017 3:11	59	7/11/2017 4:16	60	8/11/2017 5:21	61
6/11/2017 3:16	60	7/11/2017 4:21	61	8/11/2017 5:26	62
6/11/2017 3:21	60	7/11/2017 4:26	60	8/11/2017 5:31	57
6/11/2017 3:26	60	7/11/2017 4:31	61	8/11/2017 5:36	62
6/11/2017 3:31	60	7/11/2017 4:36	59	8/11/2017 5:41	51
6/11/2017 3:36	59	7/11/2017 4:41	60	8/11/2017 5:46	55
6/11/2017 3:41	59	7/11/2017 4:46	60	8/11/2017 5:51	57
6/11/2017 3:46	59	7/11/2017 4:51	61	8/11/2017 5:56	57
6/11/2017 3:51	59	7/11/2017 4:56	60	8/11/2017 6:01	57
6/11/2017 3:56	60	7/11/2017 5:01	61	8/11/2017 6:06	57
6/11/2017 4:01	60	7/11/2017 5:06	62	8/11/2017 6:11	58
6/11/2017 4:06	60	7/11/2017 5:11	61	8/11/2017 6:16	60
6/11/2017 4:11	60	7/11/2017 5:16	53	8/11/2017 6:21	61
6/11/2017 4:16	60	7/11/2017 5:21	61	8/11/2017 6:26	62
6/11/2017 4:21	60	7/11/2017 5:26	45	8/11/2017 6:31	66
6/11/2017 4:26	59	7/11/2017 5:31	56	8/11/2017 6:36	63
6/11/2017 4:31	60	7/11/2017 5:36	54	8/11/2017 6:41	64
6/11/2017 4:36	60	7/11/2017 5:41	58	8/11/2017 6:46	64
6/11/2017 4:41	60	7/11/2017 5:46	59	8/11/2017 6:51	65
6/11/2017 4:46	60	7/11/2017 5:51	57	8/11/2017 6:56	64
6/11/2017 4:51	61	7/11/2017 5:56	61	8/11/2017 23:01	64
6/11/2017 4:56	61	7/11/2017 6:01	59	8/11/2017 23:06	64
6/11/2017 5:01	60	7/11/2017 6:06	62	8/11/2017 23:11	63
6/11/2017 5:06	61	7/11/2017 6:11	61	8/11/2017 23:16	64
6/11/2017 5:11	62	7/11/2017 6:16	62	8/11/2017 23:21	63
6/11/2017 5:16	50	7/11/2017 6:21	63	8/11/2017 23:26	63
6/11/2017 5:21	61	7/11/2017 6:26	63	8/11/2017 23:31	64
6/11/2017 5:26	49	7/11/2017 6:31	65	8/11/2017 23:36	63
6/11/2017 5:31	55	7/11/2017 6:36	65	8/11/2017 23:41	63
6/11/2017 5:36	52	7/11/2017 6:41	65	8/11/2017 23:46	63
6/11/2017 5:41	57	7/11/2017 6:46	66	8/11/2017 23:51	63
6/11/2017 5:46	58	7/11/2017 6:51	65	8/11/2017 23:56	62
6/11/2017 5:51	58	7/11/2017 6:56	66	9/11/2017 0:01	62
6/11/2017 5:56	56	7/11/2017 23:01	64	9/11/2017 0:06	63
6/11/2017 6:01	61	7/11/2017 23:06	64	9/11/2017 0:11	64
6/11/2017 6:06	62	7/11/2017 23:11	63	9/11/2017 0:16	62
6/11/2017 6:11	62	7/11/2017 23:16	64	9/11/2017 0:21	62
6/11/2017 6:16	61	7/11/2017 23:21	64	9/11/2017 0:26	59
6/11/2017 6:21	63	7/11/2017 23:26	64	9/11/2017 0:31	61
6/11/2017 6:26	64	7/11/2017 23:31	63	9/11/2017 0:36	56
6/11/2017 6:31	65	7/11/2017 23:36	62	9/11/2017 0:41	59
6/11/2017 6:36	65	7/11/2017 23:41	63	9/11/2017 0:46	60
6/11/2017 6:41	66	7/11/2017 23:46	64	9/11/2017 0:51	60
6/11/2017 6:46	64	7/11/2017 23:51	63	9/11/2017 0:56	62
6/11/2017 6:51	64	7/11/2017 23:56	63	9/11/2017 1:01	60
6/11/2017 6:56	67	8/11/2017 0:01	62	9/11/2017 1:06	58
6/11/2017 23:01	63	8/11/2017 0:06	63	9/11/2017 1:11	58
6/11/2017 23:06	62	8/11/2017 0:11	62	9/11/2017 1:16	59
6/11/2017 23:11	63	8/11/2017 0:16	60	9/11/2017 1:21	57
6/11/2017 23:16	63	8/11/2017 0:21	60	9/11/2017 1:26	59
6/11/2017 23:21	62	8/11/2017 0:26	59	9/11/2017 1:31	58
6/11/2017 23:26	62	8/11/2017 0:31	60	9/11/2017 1:36	50
6/11/2017 23:31	62	8/11/2017 0:36	58	9/11/2017 1:41	55
6/11/2017 23:36	63	8/11/2017 0:41	60	9/11/2017 1:46	54
6/11/2017 23:41	61	8/11/2017 0:46	61	9/11/2017 1:51	55
6/11/2017 23:46	61	8/11/2017 0:51	58	9/11/2017 1:56	52
6/11/2017 23:51	62	8/11/2017 0:56	56	9/11/2017 2:01	62
6/11/2017 23:56	60	8/11/2017 1:01	49	9/11/2017 2:06	49
7/11/2017 0:01	60	8/11/2017 1:06	57	9/11/2017 2:11	60
7/11/2017 0:06	60	8/11/2017 1:11	57	9/11/2017 2:16	61
7/11/2017 0:11	61	8/11/2017 1:16	42	9/11/2017 2:21	61
7/11/2017 0:16	59	8/11/2017 1:21	54	9/11/2017 2:26	61
7/11/2017 0:21	61	8/11/2017 1:26	56	9/11/2017 2:31	62
7/11/2017 0:26	60	8/11/2017 1:31	52	9/11/2017 2:36	61
7/11/2017 0:31	58	8/11/2017 1:36	54	9/11/2017 2:41	61
7/11/2017 0:36	57	8/11/2017 1:41	50	9/11/2017 2:46	61
7/11/2017 0:41	55	8/11/2017 1:46	48	9/11/2017 2:51	60
7/11/2017 0:46	59	8/11/2017 1:51	51	9/11/2017 2:56	61
7/11/2017 0:51	57	8/11/2017 1:56	48	9/11/2017 3:01	61
7/11/2017 0:56	52	8/11/2017 2:01	62	9/11/2017 3:06	60
7/11/2017 1:01	56	8/11/2017 2:06	62	9/11/2017 3:11	60
7/11/2017 1:06	54	8/11/2017 2:11	57	9/11/2017 3:16	61
7/11/2017 1:11	56	8/11/2017 2:16	62	9/11/2017 3:21	60
7/11/2017 1:16	61	8/11/2017 2:21	61	9/11/2017 3:26	59
7/11/2017 0:16	59	8/11/2017 2:26	61	9/11/2017 3:31	53
7/11/2017 0:21	61	8/11/2017 2:31	42	9/11/2017 3:36	49
7/11/2017 0:26	60	8/11/2017 2:36	61	9/11/2017 3:41	60
7/11/2017 0:31	58	8/11/2017 2:41	61	9/11/2017 3:46	61
7/11/2017 0:36	57	8/11/2017 2:46	61	9/11/2017 3:51	61
7/11/2017 0:41	55	8/11/2017 2:51	61	9/11/2017 3:56	60
7/11/2017 0:46	59	8/11/2017 2:56	61	9/11/2017 4:01	60
7/11/2017 0:51	57	8/11/2017 3:01	61	9/11/2017 4:06	60
7/11/2017 0:56	52	8/11/2017 3:06	60	9/11/2017 4:11	60
7/11/2017 1:01	56	8/11/2017 3:11	61	9/11/2017 4:16	60
7/11/2017 1:06	54	8/11/2017 3:16	60	9/11/2017 4:21	62
7/11/2017 1:11	58	8/11/2017 3:21	59	9/11/2017 4:26	60

Real-time Noise Data RTN1 (Food and Environmental Hygiene Department Depot)

26/11/2017 3:41 54
26/11/2017 3:46 55
26/11/2017 3:51 55
26/11/2017 3:56 54
26/11/2017 4:01 59
26/11/2017 4:06 57
26/11/2017 4:11 52
26/11/2017 4:16 62
26/11/2017 4:21 54
26/11/2017 4:26 53
26/11/2017 4:31 49
26/11/2017 4:36 59
26/11/2017 4:41 61
26/11/2017 4:46 53
26/11/2017 4:51 57
26/11/2017 4:56 53
26/11/2017 5:01 54
26/11/2017 5:06 52
26/11/2017 5:11 52
26/11/2017 5:16 62
26/11/2017 5:21 59
26/11/2017 5:26 57
26/11/2017 5:31 55
26/11/2017 5:36 55
26/11/2017 5:41 52
26/11/2017 5:46 57
26/11/2017 5:51 61
26/11/2017 5:56 59
26/11/2017 6:01 59
26/11/2017 6:06 61
26/11/2017 6:11 60
26/11/2017 6:16 61
26/11/2017 6:21 65
26/11/2017 6:26 63
26/11/2017 6:31 61
26/11/2017 6:36 61
26/11/2017 6:41 63
26/11/2017 6:46 61
26/11/2017 6:51 64
26/11/2017 6:56 61
26/11/2017 23:01 64
26/11/2017 23:06 64
26/11/2017 23:11 62
26/11/2017 23:16 63
26/11/2017 23:21 63
26/11/2017 23:26 62
26/11/2017 23:31 62
26/11/2017 23:36 62
26/11/2017 23:41 63
26/11/2017 23:46 63
26/11/2017 23:51 62
26/11/2017 23:56 60

Real-time Noise Data RTN2a (Hong Kong Electric Centre)

26/11/2017 3:41 52
26/11/2017 3:46 53
26/11/2017 3:51 54
26/11/2017 3:56 49
26/11/2017 4:01 51
26/11/2017 4:06 51
26/11/2017 4:11 51
26/11/2017 4:16 54
26/11/2017 4:21 52
26/11/2017 4:26 51
26/11/2017 4:31 44
26/11/2017 4:36 52
26/11/2017 4:41 45
26/11/2017 4:46 44
26/11/2017 4:51 54
26/11/2017 4:56 52
26/11/2017 5:01 52
26/11/2017 5:06 51
26/11/2017 5:11 40
26/11/2017 5:16 53
26/11/2017 5:21 54
26/11/2017 5:26 54
26/11/2017 5:31 53
26/11/2017 5:36 52
26/11/2017 5:41 58
26/11/2017 5:46 53
26/11/2017 5:51 54
26/11/2017 5:56 54
26/11/2017 6:01 53
26/11/2017 6:06 52
26/11/2017 6:11 55
26/11/2017 6:16 55
26/11/2017 6:21 55
26/11/2017 6:26 57
26/11/2017 6:31 55
26/11/2017 6:36 54
26/11/2017 6:41 56
26/11/2017 6:46 56
26/11/2017 6:51 58
26/11/2017 6:56 55
26/11/2017 23:01 58
26/11/2017 23:06 59
26/11/2017 23:11 55
26/11/2017 23:16 58
26/11/2017 23:21 57
26/11/2017 23:26 57
26/11/2017 23:31 58
26/11/2017 23:36 56
26/11/2017 23:41 57
26/11/2017 23:46 57
26/11/2017 23:51 57
26/11/2017 23:56 57

Real-time Noise Data RTN3 (Po Leung Kuk Yu Lee Mo Fan Memorial School)

Table with columns for time and noise level (e.g., 30/10/2017 1:41 58, 31/10/2017 2:46 55, 1/11/2017 3:51 63, 2/11/2017 4:56 62, 3/11/2017 6:01 61, 4/11/2017 23:06 67).

Real-time Noise Data RTN3 (Po Leung Kuk Yu Lee Mo Fan Memorial School)

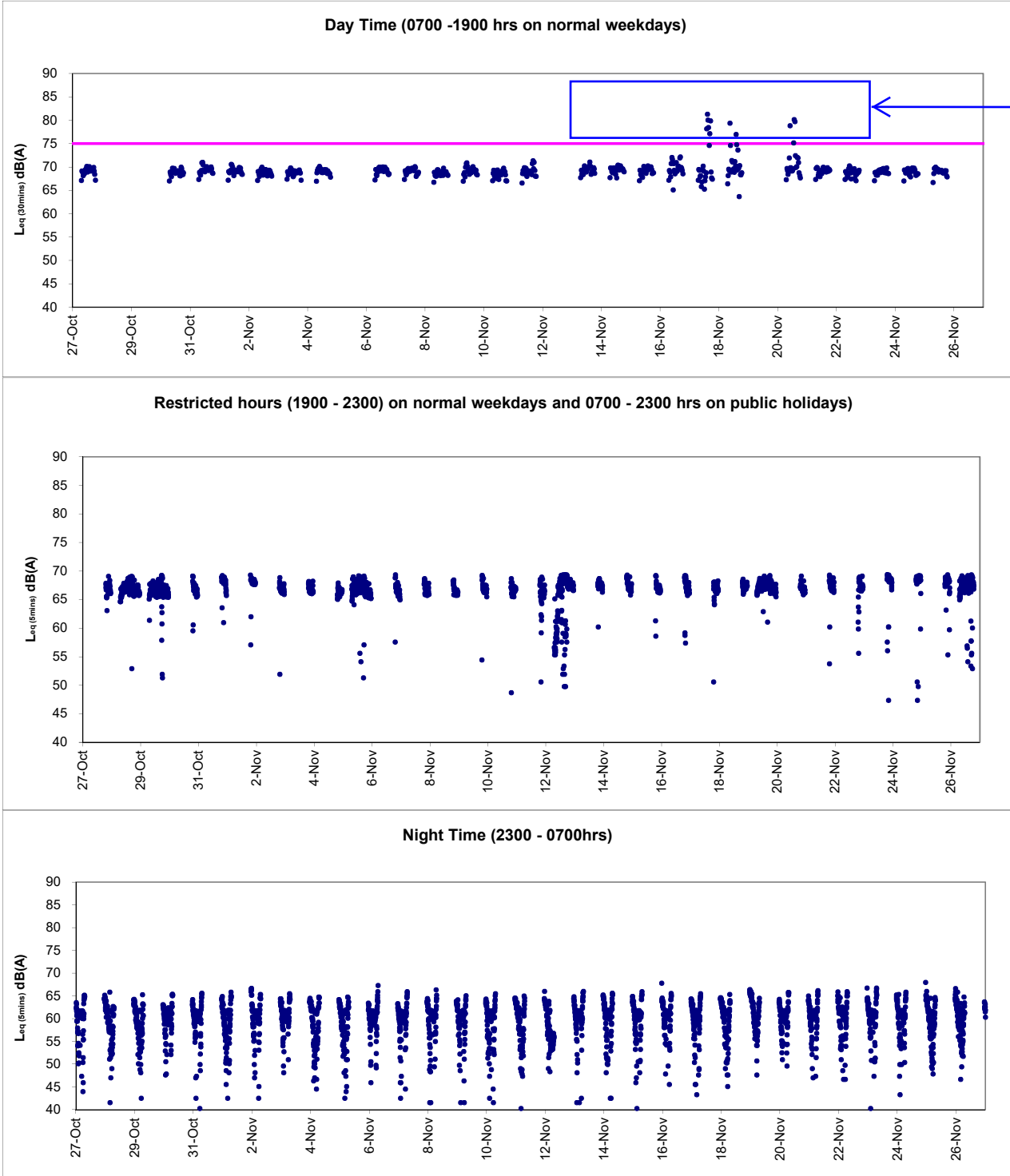
26/11/2017 3:41 59
26/11/2017 3:46 51
26/11/2017 3:51 60
26/11/2017 3:56 55
26/11/2017 4:01 60
26/11/2017 4:06 57
26/11/2017 4:11 57
26/11/2017 4:16 47
26/11/2017 4:21 56
26/11/2017 4:26 53
26/11/2017 4:31 58
26/11/2017 4:36 60
26/11/2017 4:41 57
26/11/2017 4:46 63
26/11/2017 4:51 55
26/11/2017 4:56 57
26/11/2017 5:01 56
26/11/2017 5:06 57
26/11/2017 5:11 56
26/11/2017 5:16 56
26/11/2017 5:21 60
26/11/2017 5:26 59
26/11/2017 5:31 61
26/11/2017 5:36 61
26/11/2017 5:41 59
26/11/2017 5:46 59
26/11/2017 5:51 63
26/11/2017 5:56 64
26/11/2017 6:01 62
26/11/2017 6:06 62
26/11/2017 6:11 62
26/11/2017 6:16 65
26/11/2017 6:21 66
26/11/2017 6:26 70
26/11/2017 6:31 64
26/11/2017 6:36 66
26/11/2017 6:41 65
26/11/2017 6:46 64
26/11/2017 6:51 65
26/11/2017 6:56 66
26/11/2017 23:01 67
26/11/2017 23:06 66
26/11/2017 23:11 66
26/11/2017 23:16 65
26/11/2017 23:21 66
26/11/2017 23:26 66
26/11/2017 23:31 68
26/11/2017 23:36 66
26/11/2017 23:41 65
26/11/2017 23:46 66
26/11/2017 23:51 65
26/11/2017 23:56 65

Real-time Noise Data RTN4 (Causeway Bay Community Centre)

26/11/2017 3:41 58
26/11/2017 3:46 58
26/11/2017 3:51 58
26/11/2017 3:56 57
26/11/2017 4:01 58
26/11/2017 4:06 58
26/11/2017 4:11 57
26/11/2017 4:16 57
26/11/2017 4:21 57
26/11/2017 4:26 57
26/11/2017 4:31 57
26/11/2017 4:36 57
26/11/2017 4:41 57
26/11/2017 4:46 56
26/11/2017 4:51 57
26/11/2017 4:56 56
26/11/2017 5:01 57
26/11/2017 5:06 57
26/11/2017 5:11 57
26/11/2017 5:16 57
26/11/2017 5:21 57
26/11/2017 5:26 57
26/11/2017 5:31 57
26/11/2017 5:36 57
26/11/2017 5:41 57
26/11/2017 5:46 58
26/11/2017 5:51 58
26/11/2017 5:56 58
26/11/2017 6:01 58
26/11/2017 6:06 60
26/11/2017 6:11 58
26/11/2017 6:16 58
26/11/2017 6:21 59
26/11/2017 6:26 59
26/11/2017 6:31 59
26/11/2017 6:36 59
26/11/2017 6:41 60
26/11/2017 6:46 60
26/11/2017 6:51 60
26/11/2017 6:56 60
26/11/2017 23:01 59
26/11/2017 23:06 60
26/11/2017 23:11 59
26/11/2017 23:16 60
26/11/2017 23:21 60
26/11/2017 23:26 59
26/11/2017 23:31 59
26/11/2017 23:36 59
26/11/2017 23:41 59
26/11/2017 23:46 59
26/11/2017 23:51 58
26/11/2017 23:56 59



Graphic Presentation of Real Time Noise Monitoring Result (RTN1-Food and Environmental Hygiene Department Depot)

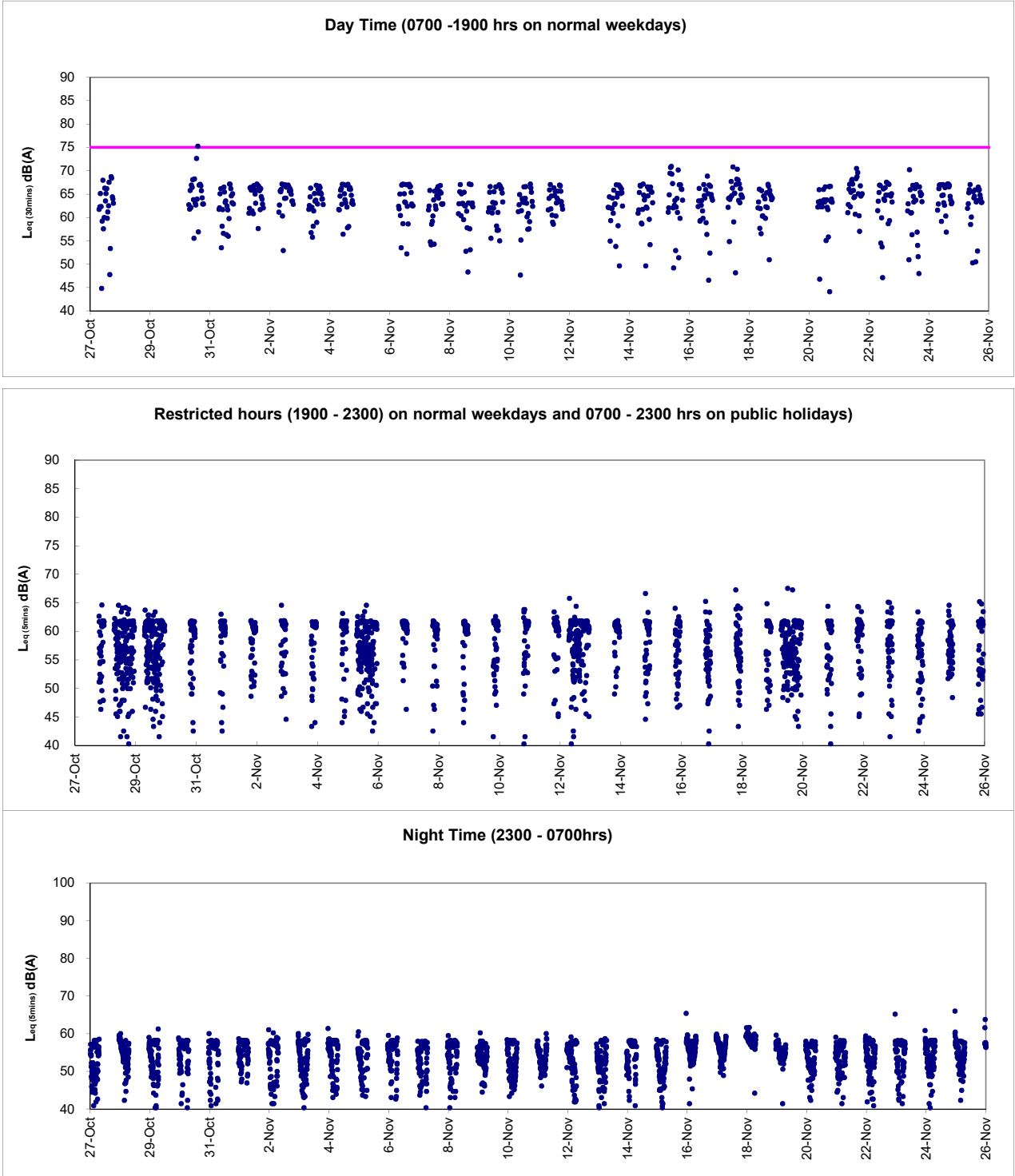


After checking with Contractor of HY/2009/19, concrete breaking works for FEHD Depot structure were conducted during the monitoring period on 17 November 2017 while no noise mitigation measures were provided. Upon identification of the noise concern, the Contractor was immediately notified of the observation and remedial actions including provision of temporary noise barrier was implemented by the Contractor on 18 November 2017. Further exceedances were recorded on 18 and 20 November 2017 and it was further evaluated that as the concerned breaking works is located in close proximity to the monitoring location for the affected sensitive receiver, the temporary noise barrier deployed was inadequate in mitigating the noise impact. Therefore the concerned breaking works was suspended on 20 November 2017 and the Contractor has undertaken further remedial action to review the construction operation and alternative demolition method with wire cut for the concrete structure was adopted to reduce the noise impact. After adaptation of the alternative demolition method, no further exceedance was recorded.

After checking with Contractor of HY/2011/08, no construction works was undertaken by Contract HY/2011/08 while cable laying works was conducted by Hong Kong Electric Centre and no major noise concern was considered. Therefore, the exceedances were considered not related to Project works under HY/2011/08.

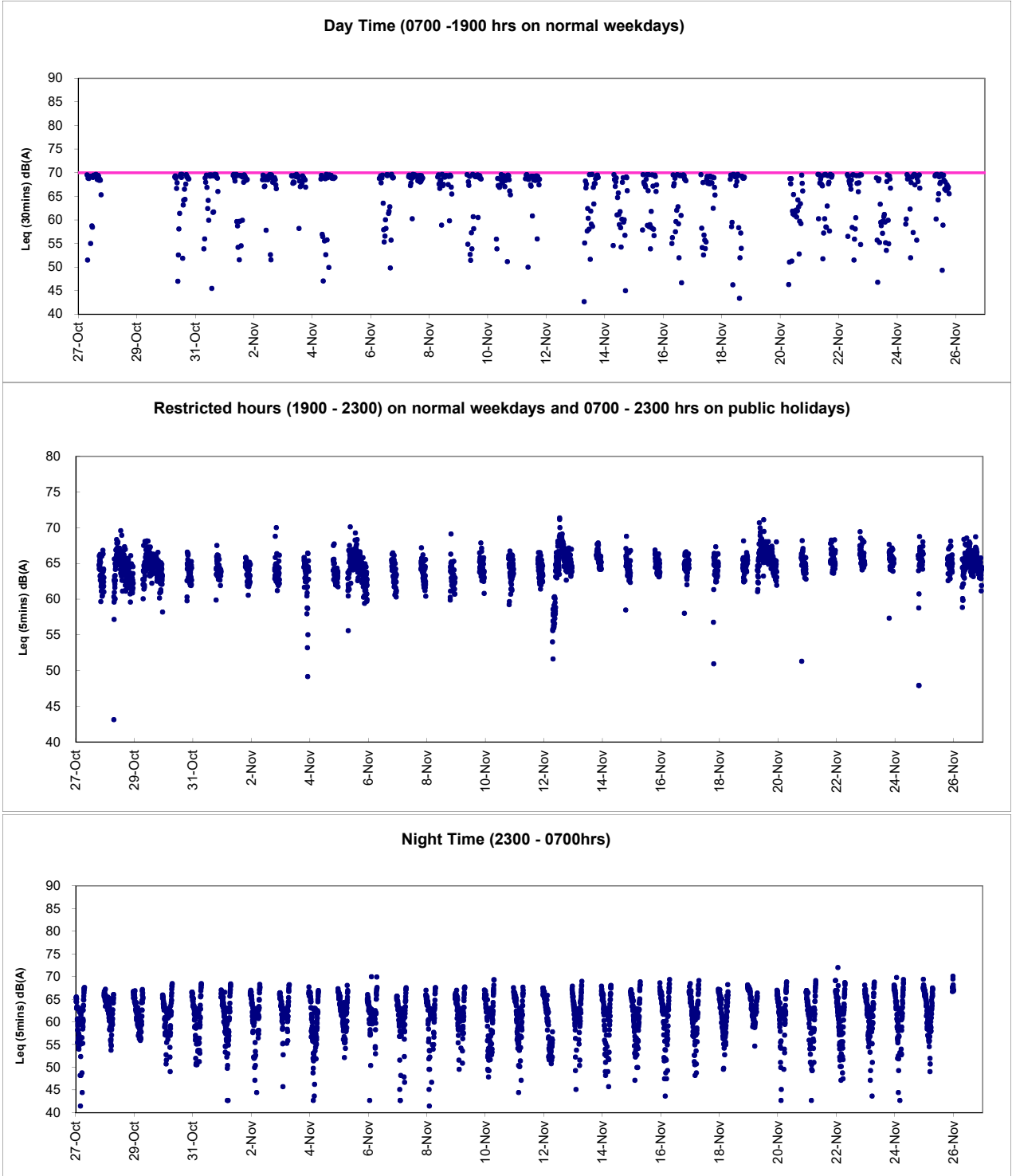


Graphic Presentation of Real Time Noise Monitoring Result (RTN2a- Hong Kong Electric Centre)



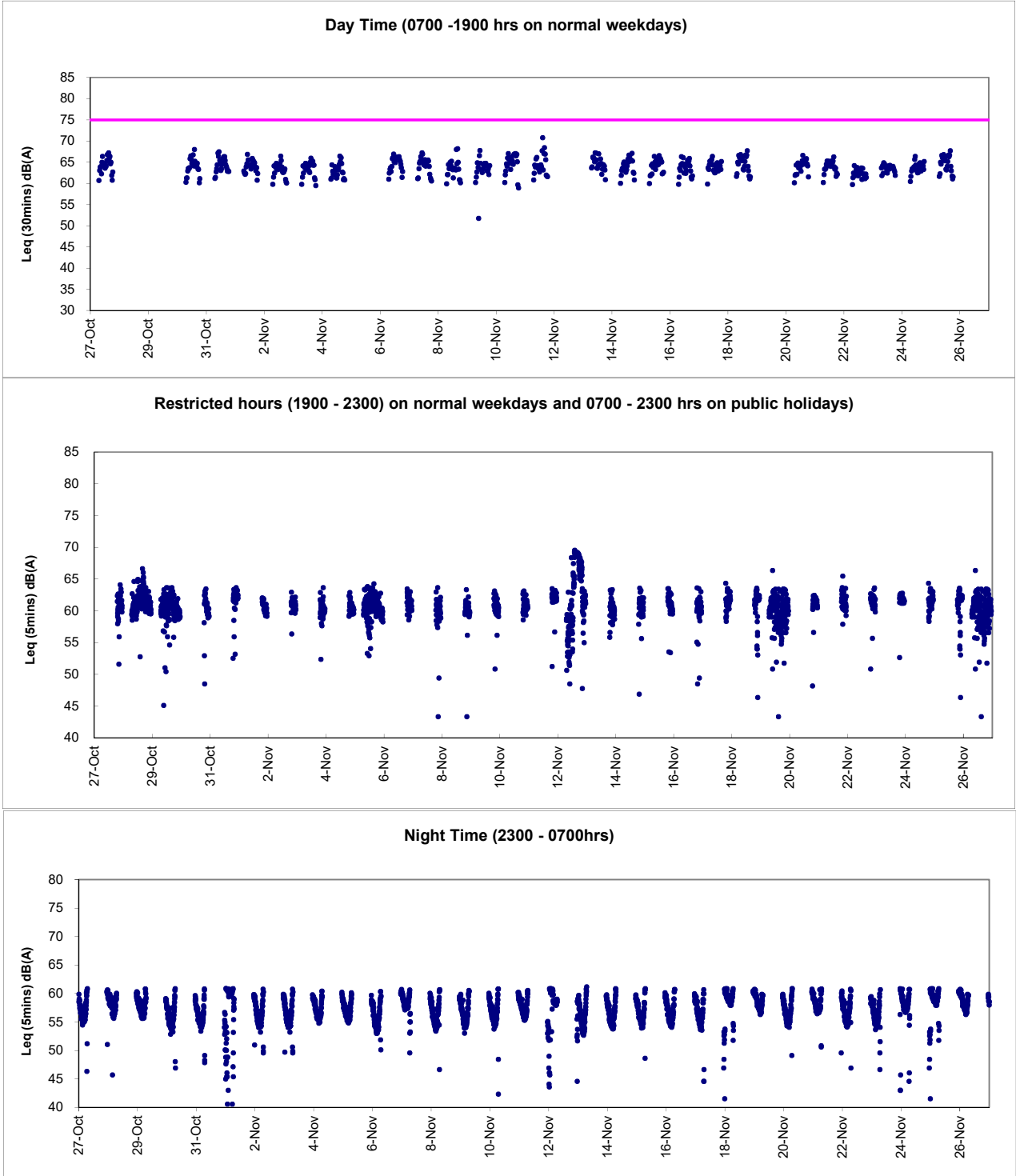


Graphic Presentation of Real Time Noise Monitoring Result (RTN3-Yu Lee Mo Fan Memorial School)





Graphic Presentation of Real Time Noise Monitoring Result (RTN4-Causeway Bay Community Centre)





Appendix 6.1

Event Action Plans



Event/Action Plan for Construction Noise

EVENT	ACTION			
	ET	IEC	ER	CONTRACTOR
Action Level being exceeded	<ol style="list-style-type: none">1. Notify ER, IEC and Contractor;2. Carry out investigation;3. Report the results of investigation to the IEC, ER and Contractor;4. Discuss with the IEC and Contractor on remedial measures required;5. Increase monitoring frequency to check mitigation effectiveness. <p>(The above actions should be taken within 2 working days after the exceedance is identified)</p>	<ol style="list-style-type: none">1. Review the investigation results submitted by the ET;2. Review the proposed remedial measures by the Contractor and advise the ER accordingly;3. Advise the ER on the effectiveness of the proposed remedial measures. <p>(The above actions should be taken within 2 working days after the exceedance is identified)</p>	<ol style="list-style-type: none">1. Confirm receipt of notification of failure in writing;2. Notify Contractor;3. In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented;4. Supervise the implementation of remedial measures. <p>(The above actions should be taken within 2 working days after the exceedance is identified)</p>	<ol style="list-style-type: none">1. Submit noise mitigation proposals to IEC and ER;2. Implement noise mitigation proposals. <p>(The above actions should be taken within 2 working days after the exceedance is identified)</p>



EVENT	ACTION			
	ET	IEC	ER	CONTRACTOR
Limit Level being exceeded	1. Inform IEC, ER, Contractor and EPD; 2. Repeat measurements to confirm findings; 3. Increase monitoring frequency; 4. Identify source and investigate the cause of exceedance; 5. Carry out analysis of Contractor's working procedures; 6. Discuss with the IEC, Contractor and ER on remedial measures required; 7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; 8. If exceedance stops, cease additional monitoring. (The above actions should be taken within 2 working days after the exceedance is identified)	1. Discuss amongst ER, ET, and Contractor on the potential remedial actions; 2. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly. (The above actions should be taken within 2 working days after the exceedance is identified)	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented; 4. Supervise the implementation of remedial measures; 5. If exceedance continues, consider stopping the Contractor to continue working on that portion of work which causes the exceedance until the exceedance is abated. (The above actions should be taken within 2 working days after the exceedance is identified)	1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC and ER within 3 working days of notification; 3. Implement the agreed proposals; 4. Submit further proposal if problem still not under control; 5. Stop the relevant portion of works as instructed by the ER until the exceedance is abated. (The above actions should be taken within 2 working days after the exceedance is identified)



Event / Action Plan for Construction Air Quality

EVENT	ACTION			
	ET	IEC	ER	CONTRACTOR
ACTION LEVEL				
1. Exceedance for one sample	<ol style="list-style-type: none"> 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)	<ol style="list-style-type: none"> 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)	<ol style="list-style-type: none"> Notify Contractor. (The above actions should be taken within 2 working days after the exceedance is identified)	<ol style="list-style-type: none"> Rectify any unacceptable practice; Amend working methods if appropriate. (The above actions should be taken within 2 working days after the exceedance is identified)
2. Exceedance for two or more consecutive samples	<ol style="list-style-type: none"> Identify source; Inform IEC and ER; Advise the ER on the effectiveness of the proposed remedial measures; Repeat measurements to confirm findings; Increase monitoring frequency to daily; Discuss with IEC and Contractor on remedial actions required; If exceedance continues, arrange meeting with IEC and ER; If exceedance stops, cease additional monitoring. (The above actions should be taken within 2 working days after the exceedance is identified)	<ol style="list-style-type: none"> 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)	<ol style="list-style-type: none"> 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)	<ol style="list-style-type: none"> Submit proposals for remedial to ER within 3 working days of notification; Implement the agreed proposals; Amend proposal if appropriate. (The above actions should be taken within 2 working days after the exceedance is identified)
LIMIT LEVEL				
1. Exceedance for one sample	<ol style="list-style-type: none"> 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)	<ol style="list-style-type: none"> 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)	<ol style="list-style-type: none"> 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)	<ol style="list-style-type: none"> Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC within 3 working days of notification; Implement the agreed proposals; Amend proposal if appropriate. (The above actions should be taken within 2 working days after the exceedance is identified)
2. Exceedance for two or more consecutive samples	<ol style="list-style-type: none"> 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)	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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)	<ol style="list-style-type: none"> Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC within 3 working days of notification; Implement the agreed proposals; Resubmit proposals if problem still not under control; Stop the relevant portion of works as determined by the ER until the exceedance is abated. (The above actions should be taken within 2 working days after the exceedance is identified)



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_16A062	1-Nov-17	9:05	CMA5b- Pedestrian Plaza	384.5	1hr TSP (ug/m ³)	332.0	500	<p>Possible reason: TSP level potentially in relate to the ambient condition around the monitoring station.</p> <p>Action taken / to be taken: Reviewed the trend of air quality measurement across monitoring stations. Analysis of contractor's working procedures.</p> <p>Remarks / Other Obs: No construction works was undertaken around the monitoring location on the monitoring date under Contractor of HK/2009/01 and no particular observation regarding air quality impact was observed during sampling.</p> <p>Nevertheless, non WDII-CWB Project construction activities was observed opposite to the monitoring station on the monitoring date. Meanwhile, it was reported that the ambient air quality was adversely affected by accumulation of air pollutant influenced by the meterological condition on the monitoring date.</p> <p>In view of the above, the exceedance was considered to be non-project related and generally contributed by ambient air quality condition. Nevertheless, the Contractor of HK/2009/01 was reminded to provide dust suppression measures for any potential dusty surface and dust generating operation if required around the concerned location to avoid any potential cumulative air quality impact.</p>
X_16A063	1-Nov-17	9:05	CMA5b- Pedestrian Plaza	384.5	1hr TSP (ug/m ³)	332.0	500	<p>Possible reason: TSP level potentially in relate to the ambient condition around the monitoring station.</p> <p>Action taken / to be taken: Reviewed the trend of air quality measurement across monitoring stations. Analysis of contractor's working procedures.</p> <p>Remarks / Other Obs: Formwork erection, lifting, and scaffolding at MVB were undertaken around the monitoring location under Contract HY/2011/08 on the monitoring date and no particular observation regarding air quality impact was observed during sampling and mitigation measure including dampening of roof top and haul road were generally implemented.</p> <p>Nevertheless, non WDII-CWB Project construction activities was observed opposite to the monitoring station on the monitoring date. Meanwhile, it was reported that the ambient air quality was adversely affected by accumulation of air pollutant influenced by the meterological condition on the monitoring date.</p> <p>In view of the above, the exceedance was considered to be non-project related and potentially contributed by ambient air quality condition. Nevertheless, the Contractor of HY/2011/08 was reminded to provide regularly dust suppression measures if any potential dust generating operation around the concerned location would be required to avoid any potential cumulative air quality impact.</p>
X_16A064	1-Nov-17	9:05	CMA5b- Pedestrian Plaza	384.5	1hr TSP (ug/m ³)	332.0	500	<p>Possible reason: TSP level potentially in relate to the ambient condition around the monitoring station.</p> <p>Action taken / to be taken: Reviewed the trend of air quality measurement across monitoring stations. Analysis of contractor's working procedures.</p> <p>Remarks / Other Obs: Road and drains works was undertaken under Contract HK/2012/08 around the monitoring location on the monitoring date and no particular observation regarding air quality impact was observed during sampling. Mitigation measure including water spraying for haul road was generally implemented.</p> <p>Nevertheless, non WDII-CWB Project construction activities was observed opposite to the monitoring station on the monitoring date. Meanwhile, it was reported that the ambient air quality was adversely affected by accumulation of air pollutant influenced by the meterological condition on the monitoring date.</p> <p>In view of the above, the exceedance was considered to be non-project related and potentially contributed by ambient air quality condition. Nevertheless, the Contractor of HK/2012/08 was reminded to provided regularly dust suppression measures if any potential dust generating operation around the concerned location would be required to avoid any potential cumulative air quality impact.</p>

Ref. No.	Date	Time	Location	Measured TSP Level	Unit	Action Level	Limit Level	Follow-up action
X_16A066	24-Nov-17	9:15	CMA5b- Pedestrian Plaza	391.3	1hr TSP (ug/m ³)	332.0	500	<p>Possible reason: TSP level potentially in relate to the ambient condition around the monitoring station.</p> <p>Action taken / to be taken: Reviewed the trend of air quality measurement across monitoring stations. Analysis of contractor's working procedures.</p> <p>Remarks / Other Obs: No construction works was undertaken around the monitoring location on the monitoring date under Contractor of HK/2009/01 and no particular observation regarding air quality impact was observed during sampling.</p> <p>Nevertheless, non WDII-CWB Project construction activities was observed opposite to the monitoring station on the monitoring date. Meanwhile, according to the EPD monitoring record, highest pollutant concentration was recorded during the monitoring date at Causeway Bay monitoring station across a seven day periods.</p> <p>In view of the above, the exceedance was considered to be non-project related and generally contributed by ambient air quality condition. Nevertheless, the Contractor of HK/2009/01 was reminded to provide dust suppression measures for any potential dusty surface and dust generating operation if required around the concerned location to avoid any potential cumulative air quality impact.</p>
		11:00	CMA5b- Pedestrian Plaza	382.1	1hr TSP (ug/m ³)	332.0	500	
		14:00	CMA5b- Pedestrian Plaza	500.4	1hr TSP (ug/m ³)	332.0	500	
X_16A067	24-Nov-17	9:15	CMA5b- Pedestrian Plaza	391.3	1hr TSP (ug/m ³)	332.0	500	<p>Possible reason: TSP level potentially in relate to the ambient condition around the monitoring station.</p> <p>Action taken / to be taken: Reviewed the trend of air quality measurement across monitoring stations. Analysis of contractor's working procedures.</p> <p>Remarks / Other Obs: Only waterproofing works and screeding works at MVB were undertaken around the monitoring location under Contract HY/2011/08 on the monitoring date and no particular observation regarding air quality impact was observed during sampling and mitigation measure including dampening of roof top and haul road were generally implemented.</p> <p>Nevertheless, non WDII-CWB Project construction activities was observed opposite to the monitoring station on the monitoring date. Meanwhile, according to the EPD monitoring record, highest pollutant concentration was recorded during the monitoring date at Causeway Bay monitoring station across a seven days period.</p> <p>In view of the above, the exceedance was considered to be non-project related and potentially contributed by ambient air quality condition. Nevertheless, the Contractor of HY/2011/08 was reminded to provided regularly dust suppression measures if any potential dust generating operation around the concerned location would be required to avoid any potential cumulative air quality impact.</p>
		11:00	CMA5b- Pedestrian Plaza	382.1	1hr TSP (ug/m ³)	332.0	500	
		14:00	CMA5b- Pedestrian Plaza	500.4	1hr TSP (ug/m ³)	332.0	500	
X_16A068	24-Nov-17	9:15	CMA5b- Pedestrian Plaza	391.3	1hr TSP (ug/m ³)	332.0	500	<p>Possible reason: TSP level potentially in relate to the ambient condition around the monitoring station.</p> <p>Action taken / to be taken: Reviewed the trend of air quality measurement across monitoring stations. Analysis of contractor's working procedures.</p> <p>Remarks / Other Obs: Road and drain construction works was undertaken under Contract HK/2012/08 around the monitoring location on the monitoring date and no particular observation regarding air quality impact was observed during sampling. Mitigation measure including water spraying for haul road was generally implemented.</p> <p>Nevertheless, non WDII-CWB Project construction activities was observed opposite to the monitoring station on the monitoring date. Meanwhile, according to the EPD monitoring record, highest pollutant concentration was recorded during the monitoring date at Causeway Bay monitoring station across a seven days period.</p> <p>In view of the above, the exceedance was considered to be non-project related and potentially contributed by ambient air quality condition. Nevertheless, the Contractor of HK/2012/08 was reminded to provided regularly dust suppression measures if any potential dust generating operation around the concerned location would be required to avoid any potential cumulative air quality impact.</p>
		11:00	CMA5b- Pedestrian Plaza	382.1	1hr TSP (ug/m ³)	332.0	500	
		14:00	CMA5b- Pedestrian Plaza	500.4	1hr TSP (ug/m ³)	332.0	500	

Ref. No.	Date	Time	Location	Construction Noise Level, dB(A)	Parameter	Action Level	Limit Level dB(A)	Follow-up action
X_16N103	3-Nov-17	13:10	M1a-Footbridge at Ex Harbour Road Sports Centre	82	Leq(30min)	when one documented complaint was received.	75	<p>Possible reason: Non WDII-CWB excavation works immediately next to the monitoring station was observed as the major noise contribution during monitoring with mechanical operation directly next to noise monitoring position.</p> <p>Action taken / to be taken: Repeat measurement to confirm result and reviewed the trend of noise measurement. Analysis of contractor's working procedure.</p> <p>Remarks / Other Obs: Despite excavation works was conducted by Contract HK/2009/02 around the concerned location during the time of measurement while non WDII-CWB excavation works immediately next to the monitoring station was observed as the major noise contribution during monitoring with mechanical operation directly next to noise monitoring position. As such, the exceedance was considered as non-Project related to Contract HK/2009/02.</p>
X_16N104	3-Nov-17	10:50	M1a-Footbridge at Ex Harbour Road Sports Centre	77	Leq(30min)	when one documented complaint was received.	75	<p>Possible reason: Non WDII-CWB excavation works immediately next to the monitoring station was observed as the major noise contribution during monitoring with mechanical operation directly next to noise monitoring position.</p> <p>Action taken / to be taken: A repeat measurement was conducted to confirm result and reviewed the trend of previous noise monitoring and Contractor's working procedure.</p> <p>Remarks / Other Obs: No construction work was conducted by Contract HK/2009/01 around the concerned location during the time of measurement while non WDII-CWB excavation works immediately next to the monitoring station was observed as the major noise contribution during monitoring. As such, the exceedance was considered as non-Project related to Contract HK/2009/01.</p>
X_16N106	22-Nov-17	10:50	M1a-Footbridge at Ex Harbour Road Sports Centre	77	Leq(30min)	when one documented complaint was received.	75	<p>Possible reason: Non WDII-CWB breaking works immediately next to the monitoring station was observed as the major noise contribution during monitoring.</p> <p>Action taken / to be taken: Repeat measurement to confirm result and reviewed the trend of noise measurement. Analysis of contractor's working procedure.</p> <p>Remarks / Other Obs: Despite backfilling works was conducted by Contract HK/2009/02 around the concerned location with a few, minor and non-continuous breaking actions under Contractor observed during measurement, acoustic screening of breaking tip was implemented by Contract HK/2009/02 and no major noise contribution was observed from the works. Meanwhile, non WDII-CWB breaking works immediately next to the monitoring station was observed as the major noise contribution during monitoring. As such, the exceedance was considered as non-Project related to Contract HK/2009/02. Nevertheless, the Contractor of HK/2009/02 was reminded to maintain adequate noise mitigation measure around the concerned location to avoid potential cumulative impact.</p>
X_16N107	22-Nov-17	10:50	M1a-Footbridge at Ex Harbour Road Sports Centre	77	Leq(30min)	when one documented complaint was received.	75	<p>Possible reason: Non WDII-CWB breaking works immediately next to the monitoring station was observed as the major noise contribution during monitoring.</p> <p>Action taken / to be taken: A repeat measurement was conducted to confirm result and reviewed the trend of previous noise monitoring and Contractor's working procedure.</p> <p>Remarks / Other Obs: No construction work was conducted by Contract HK/2009/01 around the concerned location during the time of measurement while non WDII-CWB breaking works immediately next to the monitoring station was observed as the major noise contribution during monitoring. As such, the exceedance was considered as non-Project related to Contract HK/2009/01.</p>



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 proposed measures.	Closed
110723b	23/07/2011	Ms. Yau at Block 2, Victoria Centre by ICC no. 1-304013959	North Point	Reclamation work was conducted at Causeway Bay Typhoon Shelter at 7am on 23 July 2011. She complained that the works shall be started later to minimize the noise nuisance to the vicinity of the residents in early morning	1) It was referred by AECOM to ET on 8 August 2011 2) 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.	
110727b	27/07/2011	Ms. Chiu by ICC no.1-304615409	North Point	Noise nuisance from the excavation works for the Highways Department adjacent to the Victoria Centre was conducted from 7am	1) It was referred by AECOM to ET on 28 July 2011 2) With reference to the construction noise monitoring at Vitoria Centre, no exceedance was recorded on 25 July and 4 and 10 August 2011 during daytime while breaking and excavation works were undertaken during monitoring. 3) As a mitigation measure to minimize the noise nuisance in the vicinity of the residents, rock breaking activities will be started at 8am.	Closed
	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. <i>Remarks: There will be counted as two complaints in this complaint log.</i>	
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.	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 piling 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 piling 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 hammer operating at the west side near Four	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 complainant 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	1) Confirmed with the Resident Site Staff that the construction works were referred to the Contractor HK/2009/01. 2) The Excavator mounted breaker at Convention Avenue	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 exclude the outfall. 5) An ad hoc inspection of the effectiveness of garbage defender was conducted with RSS (CWB project team), contractor of HY/200911 and HY/2009/19 and IEC on 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 with their expectation. 7) During on-site inspection, floating refuses observed	Closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					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 access 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	1) ET confirmed with the Resident Site Staff that	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 style="list-style-type: none">• A tree near the site of pipe installation works outside Wan Chai Swimming Pool at Harbour Road is the Tree no. TA1122 under Contract no. HK/2009/02. Leaves of a branch of this tree were shrivelled.• Two trees inside the site near Renaissance Hong Kong Harbour View Hotel at Convention Avenue are the tree nos. A160 and A161 under Contract no. HK/2009/01. Part of roof ball of these two trees was covered by the metal plate. 2) Independent Tree Specialists for these two inspected the trees. Contractor HK/2009/01 has taken the measure as recommend downgrading the soil level around the trunk base. Reinstating of the ground works will be conducted in mid-December 2011. For the tree no. TA1122 under Contract no. HK/2009/02, the brown leaves were removed and fenced the tree with orange net is provided to prevent damage of tree trunk by construction works. The distance between the tree and the edge of the trench is kept approximate 2m. Two Contractors were reminded to carry out regular watering to the trees within their site area.	
111106	06/11/2011	Police officer	Wan Chai	Construction noise generated from the site at about 6:30 a.m on 6 November 2011 and require to stop the machine operation	<ol style="list-style-type: none">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. Furthermore, 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 IFCL'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 enough 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 complainant. 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 vehicles. Reviewing the air quality monitoring 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 Road 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 vehicles. Reviewing the results of air quality monitoring 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.	1) RSS notified ET on 5 March 2012. 2) ET confirmed with the Resident Site Staff that PME for diaphragm wall construction started to operate at about 7:30am whilst the other PME, including those for land bored piling work, started to operate after 8am. 3) After reviewing the results of noise monitoring (M4b), no exceedance was recorded during daytime period and the noise level were below 75dB(A). Site inspection for HY/2009/19 was conducted on 7 March 2012. The condition of noise mitigation measures near Harbour Heights was found satisfactory. RSS confirmed that no operation was active before 7:00am everyday. The suspected nuisance was to be considered caused by the PME for diaphragm wall construction. A surprise check was performed on 13 March 2012 by RSS. It was found that no noisy PME was in operation by Contractor of HY/2009/19 before 8am, and the construction noise level was minimal and not disturbing. The noise level and operation time both complied with statutory requirements set up in NCO. 4) Complainant called ICC on 8 March 2012 to confirm HyD has provided a response. No further complaint was received after the response.	Closed
120405	05/04/2012	N/A	North Point	A complaint regarding excessive noise from construction sites of CBTS was observed daily before 7:30am except on public holidays, and the noise source was mainly from piling works. The complainant requested that construction works should start after 8:30am to avoid nuisance to nearby residents and a speedy follow-up and reply.	1) RSS notified ET on 5 April 2012. 2) ET confirmed with the Resident Site Staff that no piling works were performed during the concerned period. 3) After reviewing the results of noise monitoring (M2b and M3a), no exceedance was recorded during daytime period and the noise level was below 75dB(A). Site inspection for HY/2009/15 was conducted on 10 April 2012. The condition of noise mitigation measures around CBTS was found satisfactory. RSS confirmed that no pilings were performed during the concerned period. The major works included drilling, diaphragm wall construction and excavations. 4) HyD made a reply to the complainant on 16 April	Closed



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					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.	<ol style="list-style-type: none">1) RSS notified ET on 17 April 2012.2) 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.3) 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.4) 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.	<p>1) RSS notified ET on 8 Marc 2013</p> <p>2) ET confirmed with RSS that excavation works, installation of buoy, flashing light and silt curtain and dredging works were undertaken at Eastern Breakwater during the concerned period on 6 March 2013. One backhoe equipped with breaker and one derrick barge were confirmed in operation while another backhoe was at idle during the concerned period on 6 March 2013.</p> <p>3) Reviewing the photo record provided by RSS, the condition of the silt curtain deployed around the Eastern Breakwater on 6 March 2013 was found to be in good condition. It is considered that the silt curtain was properly in place during the concerned period and the concerned act of dropping of fine rock material was confined within the silt curtain boundary without adverse impact to the nearby water quality.</p> <p>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.</p> <p>The contracotr was advised and committed to implement preventive measures to mimize the potential impact of work including conducting regular diver check to ensure the integrity and the extend of silt curtain deployment and to provide adequatae back up stock of silt curtain for emergency use.</p>	Closed



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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 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 June 2013, it was considered that the withered and yellow leaves of the affected trees (T1674, T1675, T1676, T1677, T1678, T1679, T1680, T1681, T1683, T1644, T1643, T1641, T1639) at the concerned planter area were contributed by natural 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 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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					<p>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.</p> <p>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)</p> <p>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.</p>	



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130611	30 May 2013 and 1 June 2013	EPD Ref.:H04/RS/0001 1587-13	Area near Central Pier	1. Noise was emanated from the construction site near the Central Piers at around 0900 hrs on 30 May 2013 and other days and requested follow up action by relevant department.	<p>1) RSS notify ET on 11 June 2013</p> <p>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</p> <ul style="list-style-type: none">- Breaking up existing D-wall concrete and excavation at portion 4B and 4C- Sheet piling works at Portion VI (Man Kat Street) <p>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.</p> <p>Reviewing the noise monitoring data at monitoring stations (M7e- International Finance Centre Eastern End of Podium and M7w- International Finance Centre Western End of Podium), no limit level exceedances were recorded during routine noise monitoring 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.</p> <p>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 temporary noise barrier was observed in place.</p> <p>As such, no direct information associated with the noise concerned raised was considered available and no non-conformity was identified.</p> <p>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.</p>	Interim report submitted to EPD on 19 June 2013, EPD advised no further comment on 5 Aug 2013 and final report for case closing submitted on 6 Aug 2013.



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131010	03 Oct 2013	ICC Ref. No.1-467000768	Area between Central Pier and International Finance Centre	Noise and air quality impact was experienced at the area located between IFC and Central Pier during peak hours.	<p>ET confirmed with the Resident Site Staff that</p> <p>1) The major construction activities at the concerned location conducted over the past three months include;</p> <ul style="list-style-type: none">- Formwork, rebar and concreting- Backfilling- Water-proofing- Scaffolding erection <p>2) Mitigation measures implemented by the Contractor for the above construction works include</p> <ul style="list-style-type: none">- Select quiet plant and work methods;- Check plant and equipment for condition;- For use of powered mechanical equipment during restricted hours: Obtain necessary Construction Noise Permit and strictly comply with their conditions;- Frequently spray water to major haul road and stockpiles to suppress dust generation; and- Cover stockpiles with impervious sheets <p>The construction activities including backfilling, concreting and other associated tunnel works were undertaken in the past three months. Having reviewing the monitoring data of the monitoring stations in the vicinity of the concerned location raised by the complainant, namely monitoring station M7e and M7w (Noise Monitoring Station) and MA1e and MA1w (Air Monitoring Station), no action or limit level exceedance was recorded.</p> <p>In addition, mitigations measures including water spraying and erection of noise barrier were observed during weekly site inspection in August and September 2013 and reminders on dust mitigations measures given during weekly site inspection to the contractor were rectified. As such, the construction activities under Contract HY/2009/18 were considered in compliance with the statutory requirement and no cumulative air/ noise quality impact was observed in the past three months.</p>	Closed



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					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.	<p>ET confirmed with the Resident Site Staff that</p> <p>1)The major construction activities around the concerned location conducted on 16 Dec 2013 a.m.includes: -Preparation work of rootball for tree transplanting</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p>	Final investigation report issued on 20 Dec 2013. Case closed on 3 Jan 2014.



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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	<p>ET confirmed with the Resident Site Staff that</p> <p>1) The major construction activities around the concerned location conducted on 24 Dec 2013 include:</p> <ul style="list-style-type: none">- Breaking up existing 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 <p>-Felling of tree TA50 at Victoria Park Zone</p> <p>2) Mitigation measures implemented by the Contractor for the above construction works include</p> <ul style="list-style-type: none">-Water spraying for demolition and other dust generating works. <p>According to the relevant site records, breaking up of existing pillar box, pressing of sheet pile, welding work for preparation of sheetpiling demolition of existing pavilion and felling of tree TA50 at Victoria Park Zone 13 were conducted at the concerned location during the time of complaint.</p> <p>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.</p> <p>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.</p> <p>Upon further review on the supplementary information provided by the complainant on 31 Dec 2013 and investigation conducted on 2 Jan 2014, the tree felling work of tree TA50 was located nearest to the location of the complainant. According to the location plan provided by the RSS and on site investigation, the tree felling work</p>	Case closed and full investigation report issued on 3 Jan 2014.



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					<p>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.</p> <p>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.</p>	
140123	22 Jan 2014	ICC Case Ref.:1-494077682	Causeway Bay Typhoon Shelter	<p>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.</p>	<p>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.</p> <p>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;</p> <p>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</p>	Case closed and full investigation report issued on 4 Feb 2014.



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					<p>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.</p> <p>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.</p> <p>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,</p> <p>No acoustic installation was provided for the relevant PME(s) used as stated in CNP condition 3.d.during the concerned concreting works.</p> <p>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.</p> <p>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.</p> <p>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.</p>	



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.	<p>ET confirmed with the Resident Site Staff that The major construction activities around the concerned location conducted on 23 Jan 2014 include:</p> <p>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.</p> <p>Mitigation measures implemented by the Contractor for the above construction works include:</p> <p>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).</p> <p>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.</p> <p>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</p>	Case closed and full investigation report issued on 6 Feb 2014.



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					<p>East Bowling Green when there is any Bowling Green competition event to be held.</p> <p>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.</p>	
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.	<p>ET confirmed with the Resident Site Staff that the major construction activities at the concerned location conducted on 27 Feb 2014 (Daytime) include:</p> <ul style="list-style-type: none"> 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. <p>Mitigation measures implemented by the Contractor for the above construction works include:</p> <ul style="list-style-type: none"> Use of quiet plants (air compressor with a Noise Emission Label of 99 dB(A)). 	<p>Interim report submitted to EPD on 18 March 2014,</p> <p>EPD advised no further comment on 26 March 2014 and final report for case closing issued on 26 March 2014</p>



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					<p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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</p>	



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	<p>A public complaint regarding odour concern referred by EPD was received by ET on 23 June 2014.</p> <p>The complainant reported that excessive paint spray odour was detected at the foot-bridge to the Central Pier 7.</p> <p>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</p> <p>Screeding concrete placing from Ch1700 to Ch1683 was conducted at roof slab Bay12 on 11 June 2014 and</p> <p>Backfilling and removal of concrete blocks was conducted at roof slab Bay 11 and Bay 10-north on 11 June 2014</p> <p>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.</p> <p>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.</p>	<p>Preliminary report issued on 25 June 2014.</p> <p>Interim report submitted to EPD on 30 June 2014.</p>



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	<p>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 :</p> <p>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.</p> <p>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.</p> <p>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</p>	<p>Final Investigation report (Issue1) issued on 31 July 2014.</p> <p>Final investigation report (Issue 2) based on further follow-up issued on 12 Aug 2014.</p>



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					<p>operation at the above period.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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).</p>	



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) received by ET on 01 August 2014	Area opposite to Harbour Heights	Noise of sand and gravel movements at area opposite to the Harbour Heights	<p>A public complaint regarding construction noise impact referred by RSS was received by ET on 01 Aug 2014 (ICC Case Ref.: 2-360638977 dated 31 July 2014). The complainant reported that at 01:20hrs on 30 July 2014, the complainant was woken up by the noise of sand and gravel movements at area opposite to the Harbour Heights.</p> <p>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).</p> <p>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).</p> <p>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.</p> <p>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</p>	Final investigation report issued on 12 Aug 2014.



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					<p>above period).</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p>	



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	<p>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)</p> <p>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.</p> <p>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.</p> <p>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 soffit of the permanent noise enclosure at the new Island Eastern Corridor Eastbound.</p> <p>The lighting was necessary to provide sufficient illumination for the traffic operation on the new IEC Eastbound after traffic diversion on 28 September 2014. Nevertheless, in view of the public concern regarding light nuisance raised by the public, it is considered desirable for the Contractor to review the lighting arrangement and implement additional measures to minimize the nuisance caused to the surrounding receivers as far as practicable.</p>	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
					<p>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 caused 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.</p> <p>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.</p> <p>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 caused 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.</p>	



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	<p>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.</p> <p>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.</p> <p>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 soffit of the permanent noise enclosure at the new Island Eastern Corridor Eastbound.</p> <p>The lighting was necessary to provide sufficient illumination for the traffic operation on the new IEC Eastbound after traffic diversion on 28 September 2014. Nevertheless, in view of the public concern regarding light nuisance raised by the public, it is considered desirable for the Contractor to review the lighting arrangement and implement additional measures to minimize the nuisance caused to the surrounding receivers as far as practicable.</p>	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
					<p>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 caused 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.</p> <p>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.</p> <p>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 caused 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.</p>	



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	<p>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.</p> <p>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.</p> <p>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 caused 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.</p>	Final investigation report submitted on 14 Oct 2014.



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					<p>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.</p> <p>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.</p>	
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.	<p>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).</p> <p>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.</p> <p>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.</p> <p>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.</p>	<p>Updated interim investigation with supplementary information submitted to EPD on 17 November 2014.</p> <p>EPD advised no further comment on the updated interim report and case closed on 27 Nov 2014.</p>



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					<p>From 23:00 hrs to 05:00 hrs, dredging works was conducted under Contractor of HK/2009/02 at WCR3 Area.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p>	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					<p>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.</p> <p>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.</p> <p>In view of the above findings, no direct information associated with the noise concern was considered available.</p>	
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.	<p>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).</p> <p>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.</p> <p>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).</p> <p>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.</p> <p>Demolition works was conducted on 7 November 2014 during daytime at West of old Wan Chai Ferry Pier.</p> <p>Total 2 nos. of excavators, 1 no. of derrick barge and 1 no. of tug boat were operated.</p>	<p>Interim investigation report submitted to EPD on 17 November 2014.</p> <p>EPD advised no comment on the interim report and case closed on 1 Dec 2014.</p>



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					<p>Dredging works was conducted on 7 November 2014 during daytime at WCR3 (East of old Wan Chai Ferry Pier)</p> <p>Total 1 no. of dredger, 1 no. of hopper and 1 no. of tug boat were operated.</p> <p>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.</p> <p>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.</p> <p>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</p> <p>The interim report would be submitted to EPD on 17 November 2014.</p>	



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.	<p>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 that 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. (Contract HK/2009/02)</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p>	<p>Interim investigation report submitted to EPD on 19 November 2014.</p> <p>EPD advised no comment on the interim report and case closed on 8 Dec 2014.</p>



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.	<p>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.</p> <p>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</p> <p>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</p> <p>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.</p>	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
					<p>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.</p> <p>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.</p> <p>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.</p> <p>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</p>	



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					<p>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.</p> <p>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.</p> <p>Follow-up investigation was conducted on 5 February 2015 during weekly environmental inspection, dust mitigation measures including water spraying for dusty haul road and major dust generation works and provision of wheel washing combine with cleaning of public road were confirmed in place and no dust related impact from the construction works was observed. The Air Quality Health Index (AQHI) recorded by EPD across Western District and Eastern District on 21 January 2015 was ranged from 4 to 10+ indicating a severely high concentration of ambient air pollutants. Based on reviewing relevant impact monitoring data, elevated TSP were recorded at monitoring stations across Wan Chai West area to North Point area and a non-Project related exceedance was recorded at nearby monitoring station CMA4a (at SPCA) on 21 January 2015 due to ambient air pollutant.</p>	



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					<p>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.</p> <p>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.</p>	
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	<p>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.</p> <p>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.</p>	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.



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					<p>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.</p> <p>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.</p> <p>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 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.</p> <p>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.</p> <p>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.</p>	



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					<p>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.</p> <p>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.</p>	
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 Harbour View Hotel during the period of Easter Holiday	<p>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 Harbour View Hotel during the period of Easter Holiday, including April 3 at about 13:00 hours.</p> <p>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.</p> <p>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</p>	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.



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					<p>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.</p> <p>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.</p>	
20150415	13 April 2015	ICC complaint case (ICC Case Ref.: 2-885677297 dated 13 April 2015) received by ET on 15 April 2015	Construction Site at Causeway Bay Typhoon Bay Shelter	Unnecessary light nuisance from the construction site	<p>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."</p> <p>ET confirmed with the Resident Site Staff that the concerned lighting for the banners was maintained under Contract HY/2010/08.</p> <p>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.</p>	Final Investigation report issued on 20 April 2015 and case closed



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20150423	21 April 2015	EPD complaint case (EPD Case Ref: :H05/RS/00009456-15 dated 23 April 2015) received 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	<p>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.</p> <p>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.</p> <p>According to the relevant site records under Contract HK/2009/01, from 21:00hrs on 20 April 2015 to 06:00hrs on 21 April 2015 and from 21:00hrs on 21 April 2015 to 06:00hrs on 22 April 2015, cooling main connection works was undertaken by the Contractor of Contract HK/2009/01 at the concerned location. Total 1 no. of crane lorry and 1 no. of excavator were in operation during the concerned period and the relevant Construction Noise Permit GW-RS0269-15 was confirmed in place. The construction activity conducted under Contract HK/2009/01 during the concerned period was in compliance with the statutory requirement. In view of the potential noise nuisance, a notice to affected parties was issued by the Contractor of Contract HK/2009/01 to the nearby residents including Renaissance Harbour View Hotel on 17 April 2015. Besides, construction works undertaken by other parties at the concerned location was observed at the concerned period.</p>	Final Investigation report issued on 18 May 2015 and case closed



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20150601	29 May 2015	EPD complaint case (EPD Case Ref: :H05/RS/00013254-15 dated 1 June 2015) received by ET on 23 April 2015	Construction site gates V2 and V3 near Expo Drive Central	Vehicle with plate no. TG2426 was found leaving the construction site at gate V2 near Expo Drive Central without wheel-washed	<p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>Follow up inspection was conducted on 3 June 2015 during weekly environmental inspection and mitigation measures including wheel washing were 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.</p>	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.



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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/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.	<p>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.</p> <p>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.</p> <p>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</p>	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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					<p>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.</p> <p>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.</p> <p>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.</p>	
150622	18 June 2015	EPD Ref.:H05/RS/00015054-15 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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					<p>ET confirmed with the Resident Site Staff that reinforced bar fixing and concreting work (on 17 June 2015 only) were conducted at Portion 2 from 15 June 2015 to 19 June 2015. Total 3 nos. of mobile crane were in operation. On 17 June 2015, one no. of concrete pump truck and two nos. of concrete mixer were in operation. Excavation and Lateral Support was conducted at Portions 3 & 4 from 15 June 2015 to 19 June 2015. Total 4 nos. of excavator, 2 nos. of truck and 2 nos. of crawler crane were in operation. In addition, on 15 June 2015, 17 June 2015 and 19 June 2015, 1 no. of derrick barge was moored near Portions 3 & 4 for transportation of the excavated material away from site.</p> <p>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.</p> <p>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</p>	



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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	<p>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:</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>Follow-up inspection was conducted during weekly environmental inspection on 14 July 2015, no direct discharge connection was further observed on site.</p>	Updated Final investigation report submitted on 27 July 2015.



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					<p>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.</p> <p>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.</p>	
150723	20 July 2015	EPD Ref.:H05/RS/0018040-15 dated 23 July 2015	Ex-Wanchai Ferry Pier near 720 & 722 Bus stop	Malodour from marine sediment	<p>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).</p> <p>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).</p> <p>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.</p> <p>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.</p>	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.



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					<p>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.</p> <p>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.</p>	
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 loading of material	<p>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)</p> <p>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.</p> <p>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.</p> <p>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</p>	Interim report submitted to EPD on 14 September 2015. EPD advised no comment on 5 October 2015 on the interim report submitted and case closed.



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					<p>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.</p> <p>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.</p>	
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 nd interim report submitted to EPD on 17 Dec 2015



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
				transporting C&D material at the site.	<p>ET confirmed with the Resident Site Staff that from 0800 hrs to 1800 hrs on 30 August 2015, removal of scaffold and timber and installation of bulkhead was undertaken by the Contractor of HK/2012/08 at the concerned location. Total one generator and one circular saw were in operation.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>One derrick barge was deployed for unloading of soil on 02 September 2015 during daytime under Contract HK/2012/08 at the concerned location.</p> <p>Based on the relevant site records, from 0800 hrs to 1800 hrs on 30 August 2015, removal of scaffold</p>	3 rd interim report submitted to EPD on 31 Dec 2015



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					<p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p>	



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					<p>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.</p> <p>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.</p> <p>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.</p>	



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 Harbour	<p>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 Harbour.</p> <p>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.</p> <p>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.</p> <p>White or greyish effluent was discharged directly into Victoria Harbour marine waters from wastewater treatment plant on construction site.</p> <p>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</p>	<p>Interim investigation report submitted to EPD on 24 November 2015.</p> <p>2nd interim investigation report submitted to EPD on 17 December 2015.</p> <p>3rd interim investigation report submitted to EPD on 31 December 2015.</p> <p>Final investigation report submitted on 5 February 2016.</p>



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					<p>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.</p> <p>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:</p> <p>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.</p> <p>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.</p>	



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					The Environmental Team will continue to keep in view on the contractor environmental mitigation measures during the routine inspections, with specific attention at TS3 area on the effectiveness of Contractor's remediation measures and check the implementation of site measures in accordance with the EIA and EM&A Manual recommendations.	
ICC complaint case (ICC Ref: 2-159316569 4) dated 26 November 2015	26 No 2015	ICC complaint received by ET on 27 November 2015	Construction area outside City Garden Block 11	Noise nuisance due to windblown slapping of a metal onto adjacent barrier at night time	<p>A public complaint regarding noise impact referred by RSS was received by ET on 27 November 2015 (ICC Case Ref.: 2-1593165694 dated 26 November 2015). The complainant reported that noise was emanated from the IECL construction site outside City Garden Block 11 due to the windblown slapping of a metal sheet onto adjacent barrier causing nuisance to nearby residents at night time.</p> <p>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.</p> <p>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.</p>	Final investigation report to be issued on 01 December 2015.



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 November 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	<p>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</p> <p>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.</p> <p>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.</p>	<p>1st interim report submitted to EPD on 14 December 2015</p> <p>2nd interim report submitted to EPD on 4 January 2016</p> <p>EPD advised no comment on 07 January 2015 on the report submitted and case closed.</p>



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					<p>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.</p> <p>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.</p> <p>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</p>	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					watering during excavated material handling near the concerned location. Further follow up inspection was conducted on 17 December 2015 and mitigation measures including covering and watering for idle stockpile and material handling were implemented.	
ICC complaint case (ICC Case Ref: 2-1656689815 dated 14 December 2015	14 December 2015	EPD complaint received by ET on 04 December 2015	Construction area outside City Garden Block 10 and Block 11	Incessant noise emanating from the construction site of the Island East Corridor link that forms part of the Central Wanchai Bypass Project	<p>A public complaint regarding noise impact referred by RSS was received by ET on 16 December 2015 (ICC Case Ref.: 2-1656689815 dated 14 December 2015). The complainant reported that:</p> <p>Incessant noise emanating from the construction site of the Island Eastern Corridor Link that forms part of the Central-Wanchai Bypass Project.</p> <p>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</p>	Final report was issued on 23 December 2015 and case closed.



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					<p>living in nearby blocks of our estate, especially children and the elderly who have to stay at home for longer hours.</p> <p>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.</p> <p>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.</p>	



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					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 Environmental 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 substantially 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.	<p>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)</p> <p>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.</p>	Interim investigation report submitted to EPD on 22 January 2016. EPD advised on 17 February no comment on the interim report submitted and case closed.



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					<p>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.</p> <p>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.</p>	
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.	<p>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).</p> <p>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.</p> <p>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</p>	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
					<p>surroundings.</p> <p>The first complainant on 14 January 2016 reported that the situation was not improved and would escalate the case if not addressed.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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</p>	



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					<p>indicating the association with the Contractor of HY/2009/15 is considered available.</p> <p>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.</p>	
EPD complaint case (EPD Case Ref.:H05/RS/00001524-16)	22 January 2016	EPD complaint received by ET on 22 January 2016	Hung Hing Road	Construction wastewater from the China Stat's construction site under Contract HY/2009/15 was discharged from the site exit at Hung Hing Road near the Royal Hong Kong Yacht Club to the carriage of Hung Hing Road causing accumulation of stagnant water	<p>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).</p> <p>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.</p> <p>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.</p> <p>Concreting for Seawall Reinstatement at TPCWAE was conducted under Contractor of HY/2009/15 on 12 January 2016 and 18 January 2016.</p> <p>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.</p> <p>According to relevant site records and information</p>	Interim investigation report submitted to EPD on 01 February 2016. EPD advised on 17 February no comment on the interim report submitted and case closed.



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					<p>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.</p> <p>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.</p> <p>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.</p>	



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	<p>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:</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p>	Interim investigation report submitted to EPD on 23 February 2016.



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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	<p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>Based on the complaint information referred by ICC on 3 March 2016, according to the relevant site records provided by RSS, from 0800hrs to 1800hrs on both 29 February 2016 and 01 March 2016, drainage works was undertaken by Contract HK/2012/08 at Lung Wo Road and one excavator was in operation for soil excavation. Follow up inspection was conducted during the weekly environmental site inspection on 08 March 2016</p>	<p>1st investigation report issued on 11 March 2016.</p> <p>2nd investigation report issued on 23 March 2016 and case closed.</p>



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					<p>and no particular noise emanating works was observed.</p> <p>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.</p> <p>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.</p>	



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	<p>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.</p> <p>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.</p> <p>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.</p> <p>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</p>	<p>Interim investigation report submitted to EPD on 18 March 2016.</p> <p>EPD advised no comment on 29 April 2016 on the interim report submitted and case closed.</p>



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					<p>HK/2012/08 from 08:00hrs to 18:00hrs on 07 March 2016 and two excavators were in operation at that location while erection of falsework for culvert L was carried out near the waterfront of Lung King Street from 08:00hrs and 18:00hrs on 07 March 2016 under Contract HK/2012/08 and one lorry crane was involved for lifting falsework elements. Dust suppression measures including the use of water sprinklers along the site haul road was implemented by the Contractor of HK/2012/08 and removal of floating refuse was regularly conducted at the waterfront of Lung King Street by the Contractor of HK/2012/08. Upon investigation, the concerned observed floating foam at the waterfront of Lung King Street was found originating from the diverted cooling mains discharge.</p> <p>Follow up inspection was conducted during the weekly environmental site inspection on 15 March 2016 and dust suppression measures including watering for haul road, tarpaulin sheet covering for cement bags stored on site and three side and top covering for grouting station were implemented while and no dark smoke emission from the plant and machinery deployed on site was observed. Noise mitigation measures including acoustic covering was implementing for excavator mounted breaker. In addition, removal of floating refuse on site was observed implemented by the Contractor of HK/2012/08 and no accumulation of floating refuse was found. The concerned foam originating from diverted cooling mains discharge was observed during inspection and the dispersion of the concerned foam of unknown chemical nature was observed isolated from the nearby public area.</p> <p>Nevertheless, in view of the public concern, the</p>	



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					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	<p>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:</p> <p>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 Harbour via a drain hole.</p> <p>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.</p> <p>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.</p>	<p>The interim investigation report was submitted to EPD on 11 April 2016.</p> <p>EPD advised no comment on 02 September 2016 on the interim report submitted and case closed.</p>



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					<p>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.</p> <ul style="list-style-type: none">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. <p>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</p>	



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					<p>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.</p> <p>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.</p> <p>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.</p> <p>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</p>	



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					of the observed pipping with discharge to prevent further seepage water into the construction site.	
H08/RS/000 07662-16	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	<p>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).</p> <p>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</p> <p>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.</p> <p>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.</p>	<p>The interim report was submitted to the EPD on 14 April 2016.</p> <p>EPD conducted follow up site visit on rectification measures on 21 April 2016. A inspection record form (Pink Form) was issued to the Contractor regarding the observed incident.</p> <p>EPD advised no comment on 02 September 2016 on the interim report submitted and case closed.</p>



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					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.:2-2036525055 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	<p>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.</p> <p>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.</p> <p>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.</p> <p>With respect to the observed incident of the toppling of the concerned tree T710, the</p>	Investigation Report issued on 15 April 2016 and case closed



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					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).	<p>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).</p> <p>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.</p>	Investigation report issued on 19 April 2016 and case closed



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					<p>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.</p> <p>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.</p> <p>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.</p>	



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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	<p>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.</p> <p>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.</p> <p>Protection measure including provision of sandbag bunding along the side of the landing barge was implemented by the Contractor of HK/2012/08.</p> <p>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.</p> <p>Follow up inspection was conducted on 19 April 2016, protection measures including provision of</p>	<p>Interim investigation report was submitted to the EPD on 21 April 2016.</p> <p>EPD advised no further comment on 06 June 2016 on the interim report submitted and case closed.</p>



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					<p>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.</p> <p>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.</p>	
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	<p>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).</p> <p>ET confirmed with the Resident Site Staff that a generator deployed under Contract HK/2009/02 near the covered walkway for Wanchai Ferry Pier at Portion 2 area and was operated from 1900hrs on 24 May 2016 to 0700hrs on 25 May 2016 and from 1900hrs on 25 May 2016 to 0700hrs on 26 May 2016. The generator was used for the power supply of lighting inside Tunnel Portions 1 and 2. According to the relevant site records provided by</p>	<p>Interim investigation report submitted to EPD on 7 June 2016.</p> <p>EPD advised no further comment on 05 August 2016 on the report submitted and case closed.</p>



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					<p>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.</p> <p>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.</p>	



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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.	<p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p>	The interim report submitted to the EPD on 29 June 2016. EPD advised no comment on the interim report submitted and case closed on 02 September 2016.



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					<p>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.</p> <p>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.</p>	
EPD Ref: H08/RS/000 16213-16 dated 14 July 2016	30 June 2016	A public complaint referred by EPD was received by ET on 14 July 2016	Construction Site of TS3 near Slip Road 8	Night time construction noise from construction works between 0200hrs to 0300hrs and construction dust emission from construction site of TS3 near Slip Road 8 section.	<p>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.</p> <p>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.</p> <p>Noise mitigation measures including equipping the crawler crane with noise barrier was implemented</p>	The interim report submitted to the EPD on 22 July 2016



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					<p>by the Contractor of HY/2010/08.</p> <p>Dust mitigation measures including manual spraying of water and mist nozzles are deployed on the ground level and at the cofferdam.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>In view of the above, the Contractor of HY/2010/08 was advised to review the site control system for</p>	



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



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



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



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



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



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



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
EPD complaint H08/RS/000 01175-17 dated 16 January 2016	10 January 2017	A public complaint referred by EPD received by ET on 16 January 2017	Causeway Bay Typhoon Shelter	Construction work at the reclamation site in Causeway Bay Typhoon Shelter area (Under the Island Eastern Corridor) was found after 1900hrs on 10 January 2017 and the concrete lorry mixer and concrete pump may not comply with the Construction Noise Permit	<p>A public complaint referred by EPD was received by ET on 16 January 2017 (Case Ref.: H08/RS/00001175-17). The complainant reported that construction work at the reclamation site in Causeway Bay Typhoon Shelter area (Under the Island Eastern Corridor) was found after 1900hrs on 10 January 2017. The complainant reported that there were 3 concrete pumps and around 10 concrete lorry mixers operating at the above site during the said period which may not comply with the Construction Noise Permit.</p> <p>ET confirmed with the Resident Site Staff that concreting of tunnel structure was conducted under Contract HY/2010/08 at Temporary Reclamation Area TS3 between 1900hrs and 2000hrs on 10 January 2017.</p> <p>Total 3 nos. of Lorry Mounted Concrete Pumps and 6 nos. of Concrete Lorry Mixers were operated at TS3 while temporary noise barrier was provided for 2 nos. of the operating Lorry Mounted Concrete Pumps and 4 nos. of the operating Concrete Lorry Mixers. Total 1 no. of Concrete Lorry Mixer was at stand-by within TS3 Works area.</p> <p>Concreting of tunnel structure was conducted under Contract HY/2010/08 at Temporary Reclamation Area TS3 between 2000hrs and 2030hrs 10 January 2017. Total 2 nos. of Lorry Mounted Concrete Pump and 4 nos. of Concrete Lorry Mixers were operated at TS3 while temporary noise barrier was provided for 1 no. of the operating Lorry Mounted Concrete Pumps and 2 nos. of the operating Concrete Lorry Mixers. Total 1 no. of Concrete Lorry Mixer was at stand-by within TS3 Works area.</p>	Interim investigation report submitted to EPD on 03 February 2017.



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



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



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



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



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



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



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					<p>Nevertheless, further to the joint ad-hoc inspection conducted by the ET/IEC on 13 February 2017 during restricted hours (between 1900hrs to 2200hrs), concurrent operations of 4 nos. of concrete lorry trucks at the Southern Side of TS3 near Construction Site Entrance and concurrent operations of 2 nos. of concrete lorry pumps and 2 nos. of concrete lorry truck at Western and Northern Side of TS3 were observed while the temporary noise barrier provided for the concrete lorry pump and concrete lorry truck at the Northern Side of TS3 could not screen entirely the concrete lorry truck and concrete lorry pump (Located at Northern Side of TS3) from nearby sensitive receivers. Therefore, it is considered that the above operations observed could not follow the PME grouping requirement and the specific condition 3.d.4 under the relevant Construction Noise Permit.</p> <p>In view of the above, the Contractor of HY/2010/08 was advised to enhance the site supervision and strictly implement the site control system for construction works carried out during restricted hours to ensure the PMEs deployed strictly comply with relevant Construction Noise Permit. The Contractor of HY/2010/08 was also reminded to maintain regular maintenance of the plant and equipment deployed to avoid potential nuisance to the nearby public.</p>	



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



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
ICC Complaint Case (CASE #2-357615753 8 dated 05 March 2017)	05 March 2017	ICC complaint referred by RSS was received by ET on 06 March 2017	Construction works area under Contract HK/2009/02 for Wanchai Development Phase II	Noise was emanated from the construction works under Contract HK/2009/02 for Wanchai Development Phase II on 05 March 2017 and potential violation of ordinance was suspected.	<p>An ICC complaint referred by RSS was received by ET on 06 March 2017 (CASE#2-3576157538). The complainant reported that noise was emanated from the construction works under Contract HK/2009/02 for Wanchai Development Phase II on 05 March 2017 and potential violation of ordinance was suspected.</p> <p>ET confirmed with the Resident Site Staff that no works was conducted under Contract HK/2009/02 from 0000hrs to 0830hrs on 05 March 2017. Removal ELS waling at Portion 5 (West of WanChai Ferry Pier) was conducted under Contract HK/2009/02 from 0830hrs to 1700hrs on 05 March 2017. Total 2 nos. of crawler cranes were in operation at ground level.</p> <p>Tunnel backfilling and construction of temporary walls at Portions 3&4 (Near Wan Shing Street) were conducted under Contract HK/2009/02 from 0830hrs to 1700hrs. Total 1 no. of excavator and 1 no. of dump truck were in operation at ground level and 2 nos. of excavator and 1 no. of loader were in operation below ground level.</p> <p>According to the information confirmed by RSS, no works was conducted under Contract HK/2009/02 from 0000hrs to 0830hrs on 05 March 2017. Removal ELS waling at Portion 5 (West of WanChai Ferry Pier) was conducted under Contract HK/2009/02 from 0830hrs to 1700hrs on 05 March 2017. Total 2 nos. of crawler cranes were in operation at ground level. Tunnel backfilling and construction of temporary walls at Portions 3&4 (Near Wan Shing Street) were conducted under Contract HK/2009/02 from 0830hrs to 1700hrs. Total 1 no. of excavator and 1 no. of dump truck were in operation at ground level and 2 nos. of excavator and 1 loader were in operation below</p>	Investigation report issued on 10 March 2017 and case closed.



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



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



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



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
				<p>The concreting works under Contract No. CEDD HK/2009/02 was also carried out for the Central – Wan Chai Bypass Bay 10A OHVS Slab after 23:00 on 12 May 2017 (after 23:00) with 1 Pump truck, 2 vibrating pokers, 1 concrete trucks and 3 generators in operation.</p>	<p>ET confirmed with the Resident Site Staff that 10 nos. of vibratory pokers, 3 nos. of concrete pump trucks and 3 nos. of generators were in operation at Tunnel Portion 5, Top Slab 6 from 2300hrs on 09 May 2017 to 0408hrs on 10 May 2017 while 9 nos. of concrete trucks were in operation at around 0320hrs on 10 May 2017.</p> <p>2 nos. of vibratory pokers, 1 no. of concrete truck, 1 no. of concrete pump truck, and 3 nos. of generators were in operation at Tunnel Portion 5, Top Slab 6 from 2300hrs on 12 May 2017 to 2340hrs on 12 May 2017.</p> <p>According to the RSS site information, 10 nos. of vibratory pokers, 3 nos. of concrete pump trucks and 3 nos. of generator were in operation at Tunnel Portion 5, Top Slab 6 from 2300hrs on 09 May 2017 to 0408hrs on 10 May 2017 while 9 nos. of concrete trucks were in operation at around 0320hrs on 10 May 2017 and the above construction operations could not comply with the item 3a - PME requirement under the Construction Noise Permit GW-RS1297-16. In response to the information provided by the RSS/ IEC on 11 May 2017, ad-hoc inspection was conducted by the Environmental Team on 13 May 2017 around 00:40 hrs. No construction operation and no PME deployment was observed at the time of inspection.</p> <p>According to the RSS site information, 2 nos. of vibratory pokers, 1 no. of concrete pump truck, and 3 nos. of generators were in operation at Tunnel Portion 5, Top Slab 6 from 2300hrs on 12 May 2017 to 2340hrs on 12 May 2017 and could not comply with the item 3a - PME requirement under Construction Noise Permit GW-RS1297-16. In response to the information provided by the RSS/ IEC on 15 May 2017, ad-hoc inspection was conducted by the Environmental Team on 19 May</p>	



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



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



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



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



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



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					<p>remedial measures to ensure the strict construction noise permit compliance including:-</p> <p>Fully review the site control system for construction works carried out during restricted hours, in particular to ensure the frontline supervisors responsible for restricted hours construction operations are trained with comprehensive understanding on the requirement of the Construction Noise Permit in force to ensure the PMEs deployed are in compliance with relevant Construction Noise Permit.</p> <p>To assign delegated and competent personnel on-site to conduct checking on the deployment of PMEs on-site prior and during restricted hours to ensure only PMEs allowed under relevant Construction Noise Permit would be operated.</p> <p>In addition, the following preventive measures are also recommended including the Contractor of HK/2009/02 is recommended to provide regular briefing and training session to site staffs and frontline workers to enhance the workers awareness and understanding on relevant Construction Noise Permit(s) requirement during restricted hours.</p> <p>The Contractor of HK/2009/02 is recommended to review the construction operation planning procedures to ensure relevant PME(s) required for conducting the planned operation to ensure required PME are adequate considered and covered by relevant Construction Noise Permit.</p> <p>In view of the recent concern over restricted hours construction operations, a meeting was held amongst the CEDD, the RSS team, the Contractor of HK/2009/02 and the Environmental Team on 21 July 2017 to review the site control measures and enhancement measures to be adopted for restricted hours construction operations control for</p>	



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



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



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
EPD complaint Case (CASE Ref: H05/RS/00 022835-17) dated 21 July 2017	20 July 2017	EPD complaint referred to ET on 21 July 2017	Construction site near Renaissance Hong Kong Harbour View Hotel and Wanchai Pier	Mechanical noise was emanated from a construction site near Renaissance Hong Kong Harbour View Hotel and Wanchai Pier from late night till dawn recently, causing noise nuisance.	<p>An EPD complaint was referred to the ET on 21 July 2017 (CASE Ref: H05/RS/00022835-17). The complainant reported that mechanical noise was emanated from a construction site near Renaissance Hong Kong Harbour View Hotel and Wanchai Pier from late night till dawn recently, causing noise nuisance.</p> <p>ET confirmed with the Resident Site Staff that unloading of fill material was conducted under Contract HK/2009/02 at WCR3 area (West of Wan Chai Ferry Pier) from 2300hrs on 19 July 2017 to 0540hrs on 20 July 2017. 1 no. of grab dredger was operated for the above construction works.</p> <p>No construction activities or site operation was conducted under Contract HK/2009/01 from 2300hrs on 19 July 2019 to 0700hrs on 20 July 2017.</p> <p>According to the RSS site information, unloading of fill material was conducted under Contract HK/2009/02 at WCR3 area (West of Wan Chai Ferry Pier) from 2300hrs on 19 July 2017 to 0540hrs on 20 July 2017. 1 no. of grab dredger was operated for the above construction works and relevant Construction Noise Permit GW-RS0348-17 was in place and noise barrier with surface mass density of not less than 5kg/m² was provided to the power generating part of the grab dredger operated from 2300hrs on 19 July 2017 to 0540hrs on 20 July 2017. Meanwhile, no construction activities or site operation was conducted under Contract HK/2009/01 from 2300hrs on 19 July 2019 to 0700hrs on 20 July 2017.</p> <p>In view of the public concern, the Contractor of HK/2009/02 was reminded to upkeep the site</p>	<p>Interim report submitted to EPD on 26 July 2017.</p> <p>EPD advised no comment on 09 Oct 2017 on the interim report submitted and case closed</p>



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					control system for construction works carried out during restricted hours and night time for Construction Noise Permit compliance and maintain regular maintenance of the plant and equipment deployed to avoid potential nuisance to the nearby public.	
ICC complaint Case (CASE Ref: #2-416246715 1) dated 25 July 2017	25 July 2017	ICC complaint referred to ET on 26 July 2017	CEDD Construction Site near Wanchai Ferry Pier	No watering system was provided to the excavation works conducted at a CEDD Construction Site near Wanchai Ferry Pier resulting in dust impact to the public area beyond site hoarding.	<p>An ICC complaint was referred to the ET on 26 July 2017 (CASE Ref: #2-4162467151). The complainant reported that no watering system was provided to the excavation works conducted at a CEDD Construction Site near Wanchai Ferry Pier resulting in dust impact to the public area beyond site hoarding.</p> <p>ET confirmed with the Resident Site Staff that breaking works and backfilling works were conducted under Contract HK/2009/02 at the concerned location on 25 July 2017 afternoon.</p> <p>Dust mitigation measures including water spraying was implemented for the above construction activities on 25 July 2017 at the concerned location.</p> <p>According to the RSS site information, breaking works and backfilling works were conducted under Contract HK/2009/02 at the concerned location on 25 July 2017 afternoon while dust mitigation measures including water spraying was implemented for the above construction activities on 25 July 2017 at the concerned location. During Environmental Team ad hoc inspection conducted on 26 July 2017, water spraying was found insufficient to mitigate the extended area of breaking operation and construction dust impact to surroundings public area was observed.</p>	Investigation report issued on 04 August 2017 and case closed.



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



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



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



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



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



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



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




Appendix 10.1

Construction Programme of Individual Contracts

Contract No. HK/2009/01

Wan Chai Development Phase II – Central -Wan Chai Bypass at
Hong Kong Convention and Exhibition Centre

Construction Activities for Three Months Rolling

Construction Activities	November 2017	December 2017	January 2018
Reinstatement of Amenity Area			



Activity ID	Activity Name	Remaining Dur	Early Start	Early Finish	2017			2018
					Oct	Nov	Dec	Jan
HK/2012/08 Revised Works Programme Rev.11.1(DD 30 Jun 2017)								
Dredging and Reclamation								
Marine Work Construction								
Zone D								
Seawall Construction - Zone D								
Seawall 10 & 11								
MAR20630	Zone D - Seawall 10 & 11: Install remaining seawall block	15	14-Oct-17	28-Oct-17				
MAR20650	Zone D - Seawall 10 & 11: Backfill Type A	16	29-Oct-17	13-Nov-17				
MAR20670	Zone D - Seawall 10 & 11: Lay geotextile and filter	19	14-Nov-17	02-Dec-17				
Works for Section Completion								
Construction								
CWB Tunnel & Slip Road Structures and Facilities								
CWB D - Slip Road 1 - Trough / Retaining Wall								
CWB D - Slip Road 1 - Trough/Retaining Wall Structure								
SIIA13742	Sec II A - CWB SR1 Trough & RW: Trough Structure bay 1a & 1b: Construct box-out area & backfilling	25	07-Oct-17	31-Oct-17				
Section III A - Road A2, A4 & A5								
Roadwork & Utilities - Section 1 (L1806 - L1801)								
SIIA10301	Sec III A - roadwork and utilities section 1 carriageway - Drainage works (L1806 -L1801)	20	01-Nov-17	23-Nov-17				
SIIA10300	Sec III A - roadwork and utilities section 1 carriageway - Drainage works (L2202-L2201)	21	03-Oct-17	26-Oct-17				
SIIA10340	Sec III A - roadwork and utilities section 1 carriageway - utilities: HEC along carriageway	21	23-Dec-17	19-Jan-18				
SIIA10302	Sec III A - roadwork and utilities section 1 carriageway - gully pipe	18	24-Nov-17	14-Dec-17				
SIIA10320	Sec III A - roadwork and utilities section 1 carriageway - watermain	7	15-Dec-17	22-Dec-17				
SIIA10290	Sec III A - roadwork and utilities section 1 carriageway - Implementation of TTA Stage 5	1	30-Sep-17	30-Sep-17				
Roadwork & Utilities - Section 2 (L1810 - L1806)								
SIIA12530	Sec III A - roadwork and utilities section 2 carriageway - watermain	10	14-Nov-17	24-Nov-17				
SIIA12550	Sec III A - roadwork and utilities section 2 carriageway - Utilities: HEC along carriageway & Crossroad duct (HEC & HGC)	28	25-Nov-17	29-Dec-17				
SIIA12510	Sec III A - roadwork and utilities section 2 carriageway - gully pipe (L1801 - L1806)	25	14-Oct-17	13-Nov-17				
Roadwork & Utilities - Section 3 (L1808 - L1102)								
SIIA12810	Sec III A - roadwork and utilities section 3 carriageway - black top	7	23-Dec-17	03-Jan-18				
SIIA12770	Sec III A - roadwork and utilities section 3 carriageway - utilities: HEC & crossroad duct (PCCW & HGC)	41	13-Oct-17	30-Nov-17				
SIIA12790	Sec III A - roadwork and utilities section 3 carriageway - road kerb & formation	19	01-Dec-17	22-Dec-17				
Roadwork & Utilities - Section 4 (L1406 - L1401)								
SIIA13010	Sec III A - roadwork and utilities section 4 carriageway - road formation: crossroad duct (HEC), road kerb & formation	24	20-Oct-17	17-Nov-17				
SIIA13030	Sec III A - roadwork and utilities section 4 carriageway - black top	7	18-Nov-17	25-Nov-17				
SIIA12990	Sec III A - roadwork and utilities section 4 carriageway - watermain	10	09-Oct-17	19-Oct-17				

Data Date: 30-Jun-17	<ul style="list-style-type: none"> ◆ Current Milestone ■ Actual Work ■ Critical Remaining Work ■ Remaining Work ■ Remaining Level of Effort
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3 Months Rolling Programme for Non-CR III Area (Oct 2017 - Dec 2017)
(Ref. to Works Programme Rev.11.1)

Date	Revision	Checked	Approved
03-Oct-17	11.1		



Activity ID	Activity Name	Remaining Dur	Early Start	Early Finish	2017				2018
					Oct	Nov	Dec	Jan	
Roadwork & Utilities - Section 6 (L1102 - L1411)									
SIIIA13389	Sec III A - roadwork and utilities section 6 carriageway - Backfilling above tunnel roof slab	5	05-Oct-17	10-Oct-17	█				
SIIIA13399	Sec III A - roadwork and utilities section 6 carriageway - gully pipe (L1101 -L1102)	8	21-Oct-17	31-Oct-17		█			
SIIIA13470	Sec III A - roadwork and utilities section 6 carriageway - black top	7	22-Nov-17	29-Nov-17			█		
SIIIA13450	Sec III A - roadwork and utilities section 6 carriageway - road kerb & formation	18	01-Nov-17	21-Nov-17		█			
SIIIA13395	Sec III A - roadwork and utilities section 6 carriageway - Drainage works (L1101-L1102)	9	11-Oct-17	20-Oct-17	█				
Section V - Remaining At-Grade Road; Remove 2nd Stage ITA									
Roadwork & Utilities									
Section 1 (L1504 - L1900)									
SV12460	Sec V - Roadwork & Utilities Section 1 Carriageway - Utilities (TCCS crossroad duct)	21	11-Oct-17	04-Nov-17	█				
SV12570	Sec V - Roadwork & Utilities Section 1 footpath - utilities:TCCS	30	22-Nov-17	28-Dec-17			█		
SV12540	Sec V - Roadwork & Utilities Section 1 footpath - Watermain	14	06-Nov-17	21-Nov-17		█			
SV12580	Sec V - Roadwork & Utilities Section 1 footpath - paving block	30	29-Dec-17	02-Feb-18				█	
SV12490	Sec V - Roadwork & Utilities Section 1 Carriageway - Road kerb & formation	24	06-Nov-17	02-Dec-17		█			
SV12520	Sec V - Roadwork & Utilities Section 1 Carriageway - Black top	20	04-Dec-17	28-Dec-17			█		
Section 2 (L1510 - L1504)									
SV12604	Sec V - Roadwork & Utilities Section 2 Carriageway : formation for access diversion	6	30-Sep-17	07-Oct-17	█				
SV12606	Sec V - Roadwork & Utilities Section 2 Carriageway: Divert access cross Zone B	0	09-Oct-17						
SV12630	Sec V - Roadwork & Utilities Section 2 Carriageway - Drainage Works L1406A - L1406B	21	15-Nov-17	08-Dec-17		█			
SV12690	Sec V - Roadwork & Utilities Section 2 footpath - Drainage Works (L2104 - L2105)	25	09-Dec-17	10-Jan-18			█		
SV12610	Sec V - Roadwork & Utilities Section 2 Carriageway - Drainage Works L1507-L1504)	31	09-Oct-17	14-Nov-17	█				
SV12665	Sec V - Roadwork & Utilities Section 2 Carriageway - Gully pipe (L1507-L1504, L1406A)	25	09-Dec-17	10-Jan-18			█		
Section 3 (Culvert L - L1510)									
SIV12844	Sec V - Roadwork & Utilities Section 3 footpath - U channel	21	15-Nov-17	08-Dec-17		█			
SIV12840	Sec V - Roadwork & Utilities footpath - Drainage works (Culvert L - L2105)	25	16-Oct-17	14-Nov-17	█				
SIV12860	Sec V - Roadwork & Utilities Section 3 footpath - Utilities: TCCS, HGC, PCCW)	39	09-Dec-17	26-Jan-18			█		
SIV12820	Sec V - Roadwork & Utilities Section 3 Carriageway - Black top	20	19-Dec-17	13-Jan-18			█		
SIV12810	Sec V - Roadwork & Utilities Section 3 Carriageway - Gully pipe (Culvert L - L1611)	30	16-Oct-17	20-Nov-17	█				
SIV12850	Sec V - Roadwork & Utilities footpath - Watermain	21	15-Nov-17	08-Dec-17		█			
SIV12815	Sec V - Roadwork & Utilities Section 3 Carriageway - Road kerb & formation	24	21-Nov-17	18-Dec-17			█		
Section IV - Slip Road 3									
Roadwork & Utilities									
Section 1 (L16608 - L1601)									
SIV11762	Sec IV - Roadwork & Utilities at SR3 Section 1 Carriageway - Drainage Works (L2103-L2101)	21	03-Nov-17	27-Nov-17		█			
SIV11780	Sec IV - Roadwork & Utilities at SR3 Section 1 Carriageway - Watermain	18	29-Dec-17	19-Jan-18				█	
SIV11764	Sec IV - Roadwork & Utilities at SR3 Section 1 Carriageway - Gully pipe (L1607-L1601, L2004-L2005)	25	28-Nov-17	28-Dec-17			█		
SIV11860	Sec IV - Roadwork & Utilities at SR3 Section 1 footpath - Drainage Works: future connection pipes	7	29-Dec-17	06-Jan-18				█	
Section 2 (L2301 - L2103)									
SIV11941	Sec IV - Roadwork & Utilities at SR3 Section 2 Carriageway - Drainage Works (L608-L1609)	30	19-Oct-17	23-Nov-17	█				
SIV11960	Sec IV - Roadwork & Utilities at SR3 Section 2 Carriageway - Watermain	10	20-Dec-17	03-Jan-18			█		



Activity ID	Activity Name	Remaining Dur	Early Start	Early Finish	2017				2018
					Oct	Nov	Dec	Jan	
SIV11942	Sec IV - Roadwork & Utilities at SR3 Section 2 Carriageway - Gully pipe (L2301-L2013, L1608-L1609)	22	24-Nov-17	19-Dec-17					
SIV12010	Sec IV - Roadwork & Utilities at SR3 Section 2 Carriageway - Road kerb & formation	24	20-Dec-17	19-Jan-18					
Section 3 (M/H1.6 - L2301)									
SIV12103	Sec IV - Roadwork & Utilities at SR3 Section 3 Carriageway - M1.7-M1.6: ELS	10	18-Oct-17	30-Oct-17					
SIV12104	Sec IV - Roadwork & Utilities at SR3 Section 3 Carriageway - M1.7-M1.6: Construct manhole & pipes	36	31-Oct-17	11-Dec-17					
SIV12105	Sec IV - Roadwork & Utilities at SR3 Section 3 Carriageway - M1.7-M1.6: backfilling & divert EVA	12	12-Dec-17	27-Dec-17					
SIV12120	Sec IV - Roadwork & Utilities at SR3 Section 3 Carriageway - Drainage Works (M1.6-C1.1-C1.2): Construct MH and pipes	28	28-Dec-17	30-Jan-18					
SIV12100	Sec IV - Roadwork & Utilities at SR3 Section 3 Carriageway - Drainage Works (M/H1.7 - L2301)	31	19-Oct-17	24-Nov-17					
SIV12140	Sec IV - Roadwork & Utilities at SR3 Section 3 Carriageway - Gully pipe (M/H 1.7 - L2301)	30	25-Nov-17	02-Jan-18					
SIV12180	Sec IV - Roadwork & Utilities at SR3 Section 3 footpath - U channel	14	24-Oct-17	09-Nov-17					
SIV12220	Sec IV - Roadwork & Utilities at SR3 Section 3 footpath - Paving block	45	10-Nov-17	04-Jan-18					
Section VII - Remainder Works									
Road & Drainage Works (Culvert L - M/H1.7, Adjacent to SR3)									
SVII11600	Sec IV - Roadwork & Utilities at SR3 Section 4 Carriageway - Drainage Works (Culvert L -MH1.7)	40	12-Dec-17	30-Jan-18					
Retaining Wall RW5 Construction									
SVII10860	Sec VII - Retaining wall RW5 - curing, removal formwork	15	07-Nov-17	23-Nov-17					
SVII10680	Sec VII - Retaining wall RW5 (bay 2) - construct base slab and wall	20	13-Oct-17	06-Nov-17					
SVII10820	Sec VII - Retaining wall RW5 (bay 4) - construct base slab and wall	20	13-Oct-17	06-Nov-17					
Landing Steps Construction									
Landing Steps BSW13									
SVII10920	Sec VII - Landing steps (BSW13) - install s.s. handrail / tactile / sign board / bollard	25	20-Nov-17	18-Dec-17					
SVII10900	Sec VII - Landing steps (BSW13) - install vertical fender / step fender	15	02-Nov-17	18-Nov-17					
Landing Steps BSW4									
SVII10980	Sec VII - Landing steps (BSW4) - install vertical fender / step fender	15	19-Dec-17	08-Jan-18					
Promenade Seawall Parapet Construction									
SVII13220	Sec VII - Zone D: Construct seawall block mass concrete coping	40	04-Dec-17	22-Jan-18					
SVII13140	Sec VII - Zone A1, A2 & B: Construct seawall parapet	35	02-Nov-17	12-Dec-17					
Promenade Footpath and EVA Construction									
Section 2									
SVII12610	Sec VII - section 2 footpath - drainage works (L2203 - L2202A) & U-channel	49	14-Nov-17	12-Jan-18					
Section 3									
SVII12850	Sec VII - section 3 footpath - watermain	18	13-Oct-17	03-Nov-17					
SVII12870	Sec VII - section 3 footpath - utilities (HEC, TCSS, HGC, PCCW)	44	04-Nov-17	27-Dec-17					
SVII12875	Sec VII - 3 footpath - drainage works :U chanel	14	28-Dec-17	13-Jan-18					
Section 4									
SVII13054	Sec VII - section 4 footpath - U channel	14	09-Dec-17	27-Dec-17					
SVII13052	Sec VII - section 4 footpath - watermain	21	15-Nov-17	08-Dec-17					
SVII13050	Sec VII - section 4 footpath - drainage works (L2203 -L2203A)	21	20-Oct-17	14-Nov-17					
SVII13055	Sec VII - section 4 footpath - utilities: HEC, TCSS, HEC & PCCW	56	09-Dec-17	15-Feb-18					
Section 5									



中國建築-利達聯營
CHINA STATE - LEADER JOINT VENTURE

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








Activity ID	Activity Name	Remaining Dur	Early Start	Early Finish	2017				2018
					Oct	Nov	Dec	Jan	
SVII13275	Sec VII - section 5 footpath - watermain	21	26-Oct-17	20-Nov-17					
SVII13310	Sec VII - section 5 footpath - utilities: HEC, TCSS, HGC, PCCW	59	21-Nov-17	31-Jan-18					
Section 6									
SVII13514	Sec VII - section 6 footpath - U channel	20	14-Dec-17	09-Jan-18					
SVII13510	Sec VII - section 6 footpath - watermain	20	21-Nov-17	13-Dec-17					
SVII13490	Sec VII - section 6 footpath - drainage works(Culvert L - L2204)	25	21-Oct-17	20-Nov-17					
SVII13530	Sec VII - section 6 footpath - utilities: HEC, TCSS, HGC, PCCW	62	14-Dec-17	02-Mar-18					

Data Date: 20-Nov-17

HY/2009/18 Central - Wan Chai Bypass (Central Interchange)

TASK filters: 3 Months_1, Not HL.

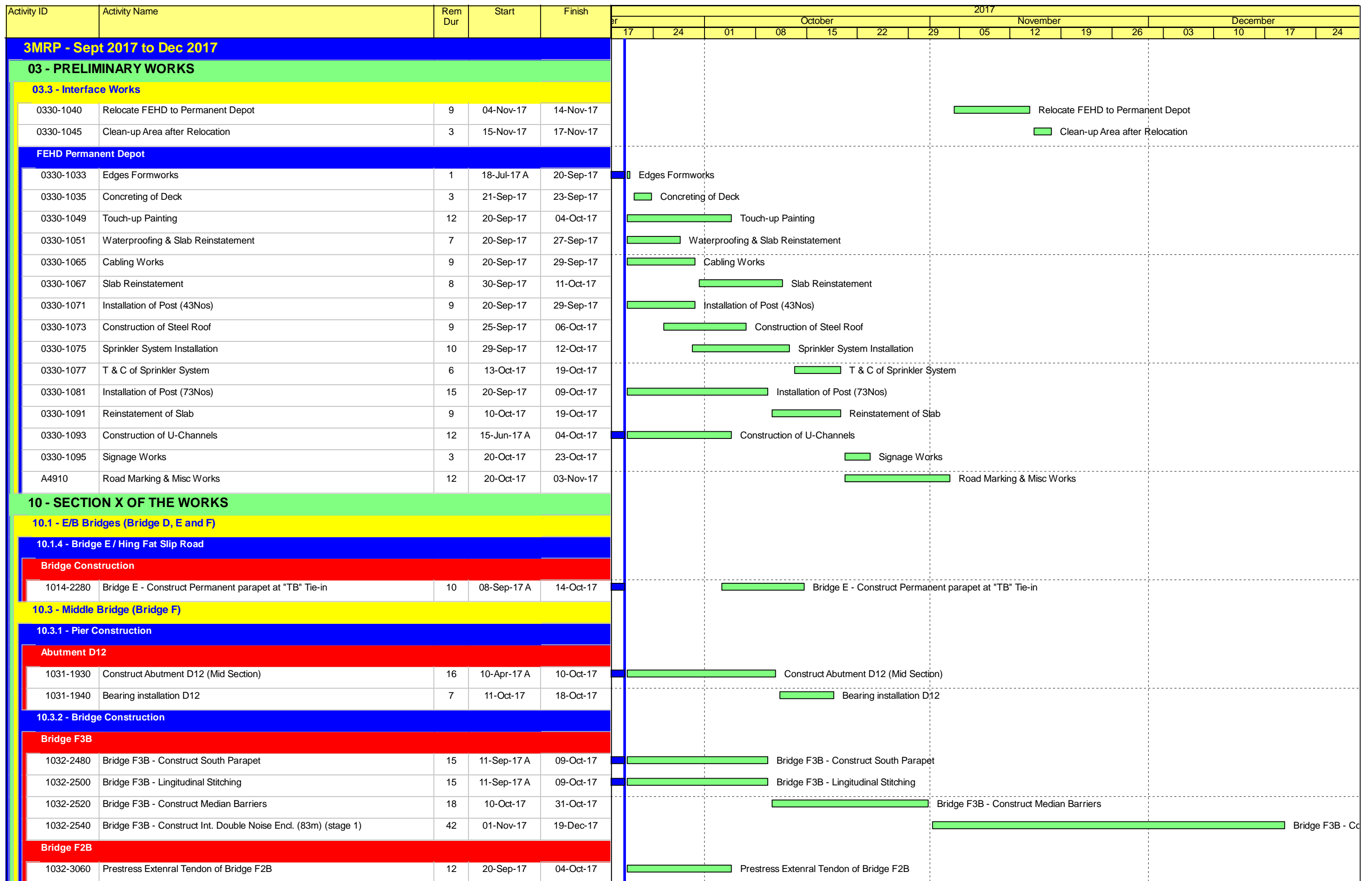
Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2017												2018											
						Nov						Dec						Jan						Feb					
Update 2017-11-20 CWB - Central Interchange (2014-06-20) Revised DWP R7																													
PRELIMINARIES																													
Access Dates & Milestones																													
Commencement & Completion																													
1010	Contract DLP and Establishment Works for Landscape Completion	0		20-Nov-17*	-294																								
1005	Contract Construction Completion	0		20-Nov-17*	-659																								
SECTION 7, 7A, 7B & 7C - LANDSCAPE ESTABLISHMENT																													
4030	EST - Portion V Landscape Establishment	365	12-Jan-17 A	11-Jan-18	-800	[Red bar from Nov 12 to Dec 11]																							
SECTION 8 - PRESERVATION & PROTECTION OF TREES																													
4100	Tree - Preservation & Protection of Existing Trees	1759	14-Dec-10 A	20-Nov-17	-659	[Green bar from Dec 14 to Nov 20]																							
Key Dates for Completion of Sections																													
Anticipated Completion																													
1094	KD12 - Anticipated Completion	0		20-Nov-17*	-747																								
1114	KD10 - Anticipated Completion	0		20-Nov-17*	-659																								
1124	KD11 - Anticipated Completion	0		20-Nov-17*	-652																								
1139	KD16 - Anticipated Completion	0		20-Nov-17*	-659																								
1104	KD14 - Anticipated Completion	0		11-Jan-18*	-800													[Blue diamond]											
Portion Handover Dates																													
Anticipated Handover																													
2960a	Portion IIIA Handover - Remaining (KD3 + 28 days) - (EOT 26.5 days added)	0		20-Nov-17*	-962																								

 Current Milestone	 Remaining W...
 Level of Effort	 Project Baseli...
 Baseline Milestone	
 Actual Work	
 Critical Remaining Work	

Leighton Contractors (Asia) Limited Programme Update 86 (November 2017) THREE MONTH ROLLING

Project ID: U086
 Baseline: DCP7-2c
 Layout: Update Three Month Rolling
 U086
 Page 1 of 1

Date	Revision	Checked	Appro...
20-Oct-17	U085	AT	PT
20-Nov-17	U086	AT	DG



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

Contract HY/2009/19
Three Months Rolling Programme (20.Sept.2017 to 19.Dec.2017)

Activity ID	Activity Name	Rem Dur	Start	Finish	2017													
					October					November				December				
					17	24	01	08	15	22	29	05	12	19	26	03	10	17
1032-3080	Bridge F2B - Longitudinal Stitching	12	06-Oct-17	19-Oct-17	Bridge F2B - Longitudinal Stitching													
1032-3100	Bridge F2B - Construct Median Barriers	18	20-Oct-17	10-Nov-17	Bridge F2B - Construct Median Barriers													
1032-3120	Bridge F2B - Construct Int. Double Noise Encl.	36	11-Nov-17	22-Dec-17	Bridge F2B - Construct Int. Double Noise Encl.													
Bridge F1B2																		
1032-1000	Relignment LG - A for Launching at Bridge F1B2	4	20-Sep-17	23-Sep-17	Relignment LG - A for Launching at Bridge F1B2													
1032-3160	P38/F4B - Install Pier Segment - Place Pier Segment	1	25-Sep-17	25-Sep-17	P38/F4B - Install Pier Segment - Place Pier Segment													
1032-3180	P38/F4B - Install Pier Segment - Adjust Segment Level and Location	2	26-Sep-17	27-Sep-17	P38/F4B - Install Pier Segment - Adjust Segment Level and Location													
1032-3200	P38/F4B - Install Pier Segment - Grouting the Bearing Upper Plinth	3	28-Sep-17	30-Sep-17	P38/F4B - Install Pier Segment - Grouting the Bearing Upper Plinth													
1032-3220	P38/F4B - Install Pier Segment - Stressing Nailing	2	03-Oct-17	04-Oct-17	P38/F4B - Install Pier Segment - Stressing Nailing													
1032-3240	P38/F4B - Install MS at Pier 38 and Engage FL at P37/F2B	2	06-Oct-17	07-Oct-17	P38/F4B - Install MS at Pier 38 and Engage FL at P37/F2B													
1032-3260	P37/F2B - Install Pier Segment - Place Pier Segment	1	09-Oct-17	09-Oct-17	P37/F2B - Install Pier Segment - Place Pier Segment													
1032-3280	P37/F2B - Install Pier Segment - Adjust Segment Level and Location	2	10-Oct-17	11-Oct-17	P37/F2B - Install Pier Segment - Adjust Segment Level and Location													
1032-3300	P37/F2B - Install Pier Segment - Grouting the Bearing Upper Plinth	3	12-Oct-17	14-Oct-17	P37/F2B - Install Pier Segment - Grouting the Bearing Upper Plinth													
1032-3320	P37/F2B - Install Pier Segment - Stressing Nailing	2	16-Oct-17	17-Oct-17	P37/F2B - Install Pier Segment - Stressing Nailing													
1032-3340	P37/F2B - Install MS at F1B2/Pier37 and Engage FL at F1B/Pier36	2	18-Oct-17	19-Oct-17	P37/F2B - Install MS at F1B2/Pier37 and Engage FL at F1B/Pier36													
1032-3360	P37/F2B - T Span Erection (5 pairs)	4	20-Oct-17	24-Oct-17	P37/F2B - T Span Erection (5 pairs)													
1032-3380	P38/F4B(MJ Left) - End Span Erection - Hanging Segments	3	25-Oct-17	27-Oct-17	P38/F4B(MJ Left) - End Span Erection - Hanging Segments													
1032-3400	P38/F4B(MJ Left) - End Span Erection - Erect Segments	1	30-Oct-17	30-Oct-17	P38/F4B(MJ Left) - End Span Erection - Erect Segments													
1032-3420	P38/F4B(MJ Left) - End Span Erection - Stitching	2	31-Oct-17	01-Nov-17	P38/F4B(MJ Left) - End Span Erection - Stitching													
1032-3440	P38/F4B(MJ Left) - End Span Erection - Formwork Fixing for and Grouting for Bearing	2	31-Oct-17	01-Nov-17	P38/F4B(MJ Left) - End Span Erection - Formwork Fixing for and Grouting for Bearing													
1032-3460	P38/F4B(MJ Left) - End Span Erection - Prestress Span Tendons	2	02-Nov-17	03-Nov-17	P38/F4B(MJ Left) - End Span Erection - Prestress Span Tendons													
1032-3480	P38/F4B(MJ Left) - End Span Erection - Remove Hanger Bar & Hanger Beam & Stitching Formwork	1	04-Nov-17	04-Nov-17	P38/F4B(MJ Left) - End Span Erection - Remove Hanger Bar & Hanger Beam & Stitching Formwork													
1032-3500	P36/F1B - Install Pier Segment - Place Pier Segment	1	23-Oct-17	23-Oct-17	P36/F1B - Install Pier Segment - Place Pier Segment													
1032-3520	P36/F1B - Install Pier Segment - Adjust Segment Level and Location	2	24-Oct-17	25-Oct-17	P36/F1B - Install Pier Segment - Adjust Segment Level and Location													
1032-3540	P36/F1B - Install Pier Segment - Grouting the Bearing Upper Plinth	3	26-Oct-17	30-Oct-17	P36/F1B - Install Pier Segment - Grouting the Bearing Upper Plinth													
1032-3560	P36/F1B - Install Pier Segment - Stressing Nailing	2	31-Oct-17	01-Nov-17	P36/F1B - Install Pier Segment - Stressing Nailing													
1032-3580	P36/F1B - Install MS at F1B/Pier36 and Engage FL at D12	2	02-Nov-17	03-Nov-17	P36/F1B - Install MS at F1B/Pier36 and Engage FL at D12													
1032-3600	P36/F1B - T Span Erection (6 pairs)	4	06-Nov-17	09-Nov-17	P36/F1B - T Span Erection (6 pairs)													
1032-3620	Abut. D12 - Install Pier Segment - Place Pier Segment	2	10-Nov-17	11-Nov-17	Abut. D12 - Install Pier Segment - Place Pier Segment													
1032-3640	Abut. D12 - Install Pier Segment - Adjust Segment Level and Location	3	13-Nov-17	15-Nov-17	Abut. D12 - Install Pier Segment - Adjust Segment Level and Location													
1032-3660	Abut. D12 - Install Pier Segment - Install the Tie & Packing System	2	16-Nov-17	17-Nov-17	Abut. D12 - Install Pier Segment - Install the Tie & Packing System													
1032-3680	Abut. D12 - Install MS at D12	1	18-Nov-17	18-Nov-17	Abut. D12 - Install MS at D12													
1032-3700	Abut. D12 (MJ Right) - End Span Erection - Hanging Segments	3	20-Nov-17	22-Nov-17	Abut. D12 (MJ Right) - End Span Erection - Hanging Segments													
1032-3720	Abut. D12 (MJ Right) - End Span Erection - Erect Segments	1	23-Nov-17	23-Nov-17	Abut. D12 (MJ Right) - End Span Erection - Erect Segments													
1032-3740	Abut. D12 (MJ Right) - End Span Erection - Stitching	2	24-Nov-17	25-Nov-17	Abut. D12 (MJ Right) - End Span Erection - Stitching													
1032-3760	Abut. D12 (MJ Right) - End Span Erection - Formwork Fixing for and Grouting for Bearing	2	24-Nov-17	25-Nov-17	Abut. D12 (MJ Right) - End Span Erection - Formwork Fixing for and Grouting for Bearing													
1032-3780	Abut. D12 (MJ Right) - End Span Erection - Prestress Span Tendons	2	27-Nov-17	28-Nov-17	Abut. D12 (MJ Right) - End Span Erection - Prestress Span Tendons													
1032-3800	Abut. D12 (MJ Right) - End Span Erection - Remove Hanger Bar & Hanger Beam & Stitching Formwork	1	29-Nov-17	29-Nov-17	Abut. D12 (MJ Right) - End Span Erection - Remove Hanger Bar & Hanger Beam & Stitching Formwork													
1032-3820	Prestress External Tendon of Bridge F1B2	13	30-Nov-17	14-Dec-17	Prestress External Tendon of Bridge F1B2													

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

Contract HY/2009/19
Three Months Rolling Programme (20.Sept.2017 to 19.Dec.2017)

Activity ID	Activity Name	Rem Dur	Start	Finish	2017															
					October					November					December					
					17	24	01	08	15	22	29	05	12	19	26	03	10	17	24	
Bridge F1B1																				
1032-1400	P37/F2A - Install Pier Segment - Grouting the Bearing Upper Plinth	1	20-Sep-17	20-Sep-17	P37/F2A - Install Pier Segment - Grouting the Bearing Upper Plinth															
1032-1420	P37/F2A - Install Pier Segment - Stressing Nailing	2	21-Sep-17	22-Sep-17	P37/F2A - Install Pier Segment - Stressing Nailing															
1032-1440	P37/F2A - Install MS at F1B2/Pier37 and Engage RL at F1B/Pier36	1	23-Sep-17	23-Sep-17	P37/F2A - Install MS at F1B2/Pier37 and Engage RL at F1B/Pier36															
1032-1460	P37/F2A - T Span Erection (5 pairs)	3	25-Sep-17	27-Sep-17	P37/F2A - T Span Erection (5 pairs)															
1032-1480	P37/F2A-P36/F1A - Mid-span Stitching	2	28-Sep-17	29-Sep-17	P37/F2A-P36/F1A - Mid-span Stitching															
1032-1500	P37/F2A-P36/F1A - Prestress Span Tendons	3	30-Sep-17	04-Oct-17	P37/F2A-P36/F1A - Prestress Span Tendons															
1032-1520	P38/F3A - Install Pier Segment - Place Pier Segment	1	06-Nov-17	06-Nov-17	P38/F3A - Install Pier Segment - Place Pier Segment															
1032-1540	P38/F3A - Install Pier Segment - Adjust Segment Level and Location	2	07-Nov-17	08-Nov-17	P38/F3A - Install Pier Segment - Adjust Segment Level and Location															
1032-1560	P38/F3A - Install Pier Segment - Grouting the Bearing Upper Plinth	2	09-Nov-17	10-Nov-17	P38/F3A - Install Pier Segment - Grouting the Bearing Upper Plinth															
1032-1580	P38/F3A - Install Pier Segment - Stressing Nailing	1	11-Nov-17	11-Nov-17	P38/F3A - Install Pier Segment - Stressing Nailing															
1032-1600	P38/F3A - Install MS at Pier 38 and Engage FL at P37/F2A	2	13-Nov-17	14-Nov-17	P38/F3A - Install MS at Pier 38 and Engage FL at P37/F2A															
1032-1620	P38/F3A(MJ Left) - End Span Erection - Hanging Segments	1	15-Nov-17	15-Nov-17	P38/F3A(MJ Left) - End Span Erection - Hanging Segments															
1032-1640	P38/F3A(MJ Left) - End Span Erection - Erect Segments	2	15-Nov-17	16-Nov-17	P38/F3A(MJ Left) - End Span Erection - Erect Segments															
1032-1660	P38/F3A(MJ Left) - End Span Erection - Stitching	1	17-Nov-17	17-Nov-17	P38/F3A(MJ Left) - End Span Erection - Stitching															
1032-1680	P38/F3A(MJ Left) - End Span Erection - Formwork Fixing for and Grouting for Bearing	1	18-Nov-17	18-Nov-17	P38/F3A(MJ Left) - End Span Erection - Formwork Fixing for and Grouting for Bearing															
1032-1683	P38/F3A(MJ Left) - End Span Erection - Prestress Span Tendons	2	20-Nov-17	21-Nov-17	P38/F3A(MJ Left) - End Span Erection - Prestress Span Tendons															
1032-1685	P38/F3A(MJ Left) - End Span Erection - Remove Hanger Bar & Hanger Beam & Stitching Formwork	1	22-Nov-17	22-Nov-17	P38/F3A(MJ Left) - End Span Erection - Remove Hanger Bar & Hanger Beam & Stitching Formwork															
1032-1700	Dismantle LG1 and Cart away	14	23-Nov-17	08-Dec-17	Dismantle LG1 and Cart away															
1032-1720	Prestress External Tendon of Bridge F1B2	12	02-Dec-17	15-Dec-17	Prestress External Tendon of Bridge F1B2															
Bridge F5																				
1032-3960	Bridge F5 Median Barriers	26	23-Aug-17 A	21-Oct-17	Bridge F5 Median Barriers															
All Middle Bridge F (Common)																				
1032-4350	TCSS/LV Ducts at Pier 50-51	14	20-Sep-17	07-Oct-17	TCSS/LV Ducts at Pier 50-51															
1032-4353	TCSS/LV Ducts at Pier 51-52	14	09-Oct-17	24-Oct-17	TCSS/LV Ducts at Pier 51-52															
1032-4354	TCSS/LV Ducts at Pier 52-53	14	25-Oct-17	10-Nov-17	TCSS/LV Ducts at Pier 52-53															
1032-4355	TCSS/LV Ducts at Pier 53-54	14	11-Nov-17	27-Nov-17	TCSS/LV Ducts at Pier 53-54															
1032-4356	TCSS/LV Ducts at Pier 55-56	14	28-Nov-17	13-Dec-17	TCSS/LV Ducts at Pier 55-56															
10.4 - Bridge Deck Demolition																				
10.4.3 - Existing E/B Bridge																				
10412-1730	Demolish Dolphin+Pile Cap & Reconstruct Pier 32 Pile Cap	18	12-Jul-17 A	12-Oct-17	Demolish Dolphin+Pile Cap & Reconstruct Pier 32 Pile Cap															
10.6 - Tunnel Approach Ramp																				
10.6.1 - Approach Ramp (Excluding Portion IIB)																				
Piling Works																				
1061-3840	Pre Bored H-Pile > Pile Ramp - BN11 A - (H-Pile + Grouting)	1	20-Sep-17	20-Sep-17	Pre Bored H-Pile > Pile Ramp - BN11 A - (H-Pile + Grouting)															
1061-3860	Pre Bored H-Pile > Pile Ramp - BN11 B (LHR)	7	20-Sep-17	27-Sep-17	Pre Bored H-Pile > Pile Ramp - BN11 B (LHR)															
1061-3880	Pre Bored H-Pile > Pile Ramp - BN11 B - (H-Pile + Grouting)	1	28-Sep-17	28-Sep-17	Pre Bored H-Pile > Pile Ramp - BN11 B - (H-Pile + Grouting)															
1061-3900	Pre Bored H-Pile > Pile Ramp - BN12 A (LHR)	5	17-Aug-17 A	04-Oct-17	Pre Bored H-Pile > Pile Ramp - BN12 A (LHR)															
1061-3920	Pre Bored H-Pile > Pile Ramp - BN12 A - (H-Pile + Grouting)	1	06-Oct-17	06-Oct-17	Pre Bored H-Pile > Pile Ramp - BN12 A - (H-Pile + Grouting)															

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

Contract HY/2009/19
Three Months Rolling Programme (20.Sept.2017 to 19.Dec.2017)

Activity ID	Activity Name	Rem Dur	Start	Finish	2017							2018							
					December							January			February				
					19	26	03	10	17	24	31	07	14	21	28	04	11	18	25
3MRP (Nov 2017 - Feb 2017)																			
03 - PRELIMINARY WORKS																			
03.3 - Interface Works																			
0330-1040	Relocate FEHD to Permanent Depot	9	02-Jan-18	11-Jan-18															
0330-1045	Clean-up Area after Relocation	3	12-Jan-18	15-Jan-18															
FEHD Permanent Depot																			
0330-1071	Installation of Post (43Nos) > Facility Area 5 & 10	6	27-Nov-17*	02-Dec-17															
0330-1073	Construction of Steel Roof > Facility Area 5 & 10	6	01-Dec-17	07-Dec-17															
0330-1075	Sprinkler System Installation > Facility Area 5 & 10	7	06-Dec-17	13-Dec-17															
0330-1077	T & C of Sprinkler System > Facility Area 5 & 10	6	14-Dec-17	20-Dec-17															
0330-1081	Installation of Post (73Nos) > Facility Area 6, 8 & 9	9	20-Nov-17	29-Nov-17															
0330-1095	Signage Works & remaining light post	3	21-Dec-17	23-Dec-17															
A4910	Road Marking & Misc Works	8	21-Dec-17	30-Dec-17															
10 - SECTION X OF THE WORKS																			
10.1 - E/B Bridges (Bridge D, E and F)																			
10.1.4 - Bridge E / Hing Fat Slip Road																			
Bridge Construction																			
1014-2280	Bridge E - Construct Permanent parapet at "TB" Tie-in	35	08-Sep-17 A	30-Dec-17															
10.3 - Middle Bridge (Bridge F)																			
10.3.2 - Bridge Construction																			
Bridge F3B																			
1032-2540	Bridge F3B - Construct Int. Double Noise Encl. (83m) (stage 1)	12	19-Sep-17 A	02-Dec-17															
1032-2550	Bridge F3B - Installation of CC & Temporary Lighting	25	04-Dec-17	03-Jan-18															
1032-2560	Bridge F3B - Deck Road Waterproofing, Surfacing & Marking	6	04-Jan-18	10-Jan-18															
1032-2561	Divert 2 Lane Traffic (Stage 1)	0	11-Jan-18																
1032-2562	Bridge F3B - Construct Int. Double Noise Encl. (83m) (stage 2)	27	11-Jan-18	10-Feb-18															
1032-2563	Bridge F3B - Deck Road Waterproofing, Surfacing & Marking	6	06-Feb-18	12-Feb-18															
1032-2564	Divert 2 Lane Traffic (Stage 2)	0	13-Feb-18																
Bridge F2B																			
1032-3080	Bridge F2B - Longitudinal Stitching	6	06-Oct-17 A	25-Nov-17															
1032-3100	Bridge F2B - Construct Median Barriers	12	25-Oct-17 A	09-Dec-17															
1032-3120	Bridge F2B - Construct Int. Double Noise Encl.	18	11-Nov-17 A	02-Jan-18															
1032-3140	Bridge F2B - Deck Road Waterproofing, Surfacing & Marking	6	04-Jan-18	10-Jan-18															
Bridge F1B2																			
1032-3810	Dismantle LGB	20	13-Nov-17 A	12-Dec-17															
1032-3820	Prestress External Tendon of Bridge F1B2	7	18-Nov-17 A	27-Nov-17															
1032-3840	Bridge F1B2 - Longitudinal Stitching	33	19-Jan-18	01-Mar-18															
1032-3860	Bridge F1B2 - Southern Parapet	30	13-Dec-17	18-Jan-18															
1032-3880	Bridge F1B2 - Construct Int. Double Noise Encl. Bridge F1B2	48	13-Jan-18	13-Mar-18															

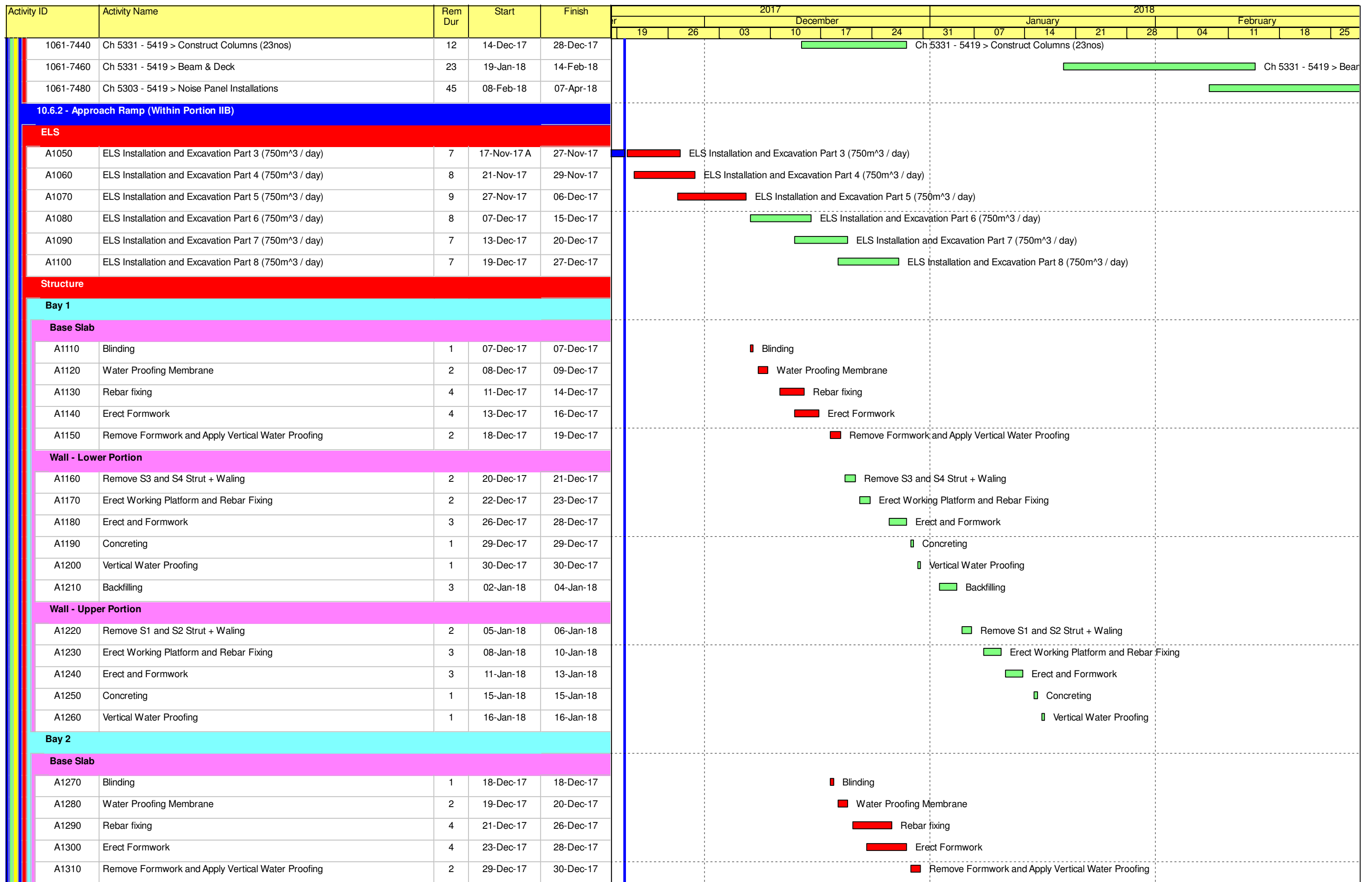
█ Remaining Level of Effort █ Remaining Work
█ Actual Level of Effort █ Critical Remaining Work
█ Actual Work ◆ ◆ Milestone

Contract HY/2009/19
Three Months Rolling Programme (20.Nov.2017 to 19.Feb.2018)

Activity ID	Activity Name	Rem Dur	Start	Finish	2017							2018						
					December							January			February			
					19	26	03	10	17	24	31	07	14	21	28	04	11	18
Bridge F1B1																		
1032-1700	Dismantle LG1 and Cart away	20	11-Nov-17 A	12-Dec-17	Dismantle LG1 and Cart away													
1032-1720	Prestress Extenral Tendon of Bridge F1B2	12	02-Dec-17	15-Dec-17	Prestress Extenral Tendon of Bridge F1B2													
1032-1740	Bridge F1B1 - Longitudinal Stitching	60	16-Dec-17	01-Mar-18	Bridge F1B1 - Longitudinal Stitching													
1032-1760	Bridge F1B1 - Construct Median Barriers	30	29-Dec-17	02-Feb-18	Bridge F1B1 - Construct Median Barriers													
1032-1780	Bridge F1B1 - Construct Int. Double Noise Encl. Bridge F1B2	46	16-Jan-18	13-Mar-18	Bridge F1B1 - Construct Int. Double Noise Encl. Bridge F1B2													
Bridge F5																		
1032-3980	Bridge F5 Deck Surfacing & Marking	5	04-Jan-18	10-Jan-18	Bridge F5 Deck Surfacing & Marking													
1032-4000	TTA Cutting of Deck Bet Temp. TD & E/B, Cons. of Parapet, Noise Encl. (Northside) start	0	13-Feb-18		◆ TTA Cutting of Deck Bet T													
1032-4040	Cutting of Deck Between Temp. TD & E/B > Pier F5-F8	12	13-Feb-18	01-Mar-18	Cutting of Deck Between Temp. TD & E/B > Pier F5-F8													
All Middle Bridge F (Common)																		
1032-4220	Bridge F TCSS/E&M Ducts and Supports (F1B1, F1B2, F2B, F3B)	22	25-Oct-17 A	10-Jan-18	Bridge F TCSS/E&M Ducts and Supports (F1B1, F1B2, F2B, F3B)													
1032-4240	Fresh Water Main 150DI at Bridge F Deck	87	27-Nov-17	13-Mar-18	Fresh Water Main 150DI at Bridge F Deck													
1032-4260	Bridge F Sign Gantries and Misc. Mounting Structure/Support	46	26-Dec-17	21-Feb-18*	Bridge F Sign Gantries and Misc. Mounting Structure/Support													
1032-4350	TCSS/LV Ducts at Zone 5 (Nigth work)	24	10-Nov-17 A	16-Dec-17	TCSS/LV Ducts at Zone 5 (Nigth work)													
1032-4353	TCSS/LV Ducts at Zone 1 & 3 (daywork)	16	20-Nov-17	07-Dec-17	TCSS/LV Ducts at Zone 1 & 3 (daywork)													
1032-4354	TCSS/LV Ducts at Zone 7 (Nigth work)	17	18-Dec-17	08-Jan-18	TCSS/LV Ducts at Zone 7 (Nigth work)													
1032-4355	TCSS/LV Ducts at Zone 2 (daywork)	9	18-Dec-17	28-Dec-17	TCSS/LV Ducts at Zone 2 (daywork)													
1032-4356	Sign Gantry (DS06B, DS06A & FADS06) (Nigth work)	50	22-Feb-18	24-Apr-18	Sign Gantry (DS06B, DS06A & FADS06) (Nigth work)													
10.6 - Tunnel Approach Ramp																		
10.6.1 - Approach Ramp (Excluding Portion IIB)																		
Structure Works																		
1061-6060	Bay 5 & 6 > Side Wall - Lower Portion - Install Waterproofing Membrane	0	20-Nov-17 A	20-Nov-17	Bay 5 & 6 > Side Wall - Lower Portion - Install Waterproofing Membrane													
1061-6080	Bay 5 & 6 > Side Wall - Lower Portion - Rebar Fixing	2	20-Nov-17	21-Nov-17	Bay 5 & 6 > Side Wall - Lower Portion - Rebar Fixing													
1061-6100	Bay 5 & 6 > Side Wall - Lower Portion - Erect Formworks	2	22-Nov-17	23-Nov-17	Bay 5 & 6 > Side Wall - Lower Portion - Erect Formworks													
1061-6120	Bay 5 & 6 > Side Wall - Lower Portion - Concreting	1	24-Nov-17	24-Nov-17	Bay 5 & 6 > Side Wall - Lower Portion - Concreting													
1061-6140	Bay 5 & 6 > Side Wall - Lower Portion - Backfill Behind Side Wall	3	25-Nov-17	28-Nov-17	Bay 5 & 6 > Side Wall - Lower Portion - Backfill Behind Side Wall													
1061-6160	Bay 5 & 6 > Side Wall - Lower Portion - Cast Temp Concrete Slab (3days curing)	4	29-Nov-17	02-Dec-17	Bay 5 & 6 > Side Wall - Lower Portion - Cast Temp Concrete Slab (3days curing)													
1061-6180	Bay 5 & 6 > Side Wall - Lower Portion - Remove 1st & 2nd Struts & Waling	6	01-Dec-17	07-Dec-17	Bay 5 & 6 > Side Wall - Lower Portion - Remove 1st & 2nd Struts & Waling													
1061-6200	Bay 5 & 6 > Side Wall - Upper Portion - Erect Scaffolding & Working Platform	4	06-Dec-17	09-Dec-17	Bay 5 & 6 > Side Wall - Upper Portion - Erect Scaffolding & Working Platform													
1061-6220	Bay 5 & 6 > Side Wall - Upper Portion - Erect Formwork (one side)	6	08-Dec-17	14-Dec-17	Bay 5 & 6 > Side Wall - Upper Portion - Erect Formwork (one side)													
1061-6240	Bay 5 & 6 > Side Wall - Upper Portion - Install Waterproofing Membrane	3	14-Dec-17	16-Dec-17	Bay 5 & 6 > Side Wall - Upper Portion - Install Waterproofing Membrane													
1061-6260	Bay 5 & 6 > Side Wall - Upper Portion - Rebar Fixing	5	18-Dec-17	22-Dec-17	Bay 5 & 6 > Side Wall - Upper Portion - Rebar Fixing													
1061-6280	Bay 5 & 6 > Side Wall - Upper Portion - Complete Formworks	4	21-Dec-17	26-Dec-17	Bay 5 & 6 > Side Wall - Upper Portion - Complete Formworks													
1061-6300	Bay 5 & 6 > Side Wall - Upper Portion - Concreting	1	27-Dec-17	27-Dec-17	Bay 5 & 6 > Side Wall - Upper Portion - Concreting													
1061-6440	Bay 7 & 8 > Side Wall - Lower Portion - Install Waterproofing Membrane	1	22-Nov-17	22-Nov-17	Bay 7 & 8 > Side Wall - Lower Portion - Install Waterproofing Membrane													
1061-6460	Bay 7 & 8 > Side Wall - Lower Portion - Rebar Fixing	3	23-Nov-17	25-Nov-17	Bay 7 & 8 > Side Wall - Lower Portion - Rebar Fixing													
1061-6480	Bay 7 & 8 > Side Wall - Lower Portion - Erect Formworks	3	27-Nov-17	29-Nov-17	Bay 7 & 8 > Side Wall - Lower Portion - Erect Formworks													
1061-6500	Bay 7 & 8 > Side Wall - Lower Portion - Concreting	1	30-Nov-17	30-Nov-17	Bay 7 & 8 > Side Wall - Lower Portion - Concreting													

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

Contract HY/2009/19
Three Months Rolling Programme (20.Nov.2017 to 19.Feb.2018)



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

Contract HY/2009/19
Three Months Rolling Programme (20.Nov.2017 to 19.Feb.2018)

Activity ID	Activity Name	Rem Dur	Start	Finish	2017						2018								
					December						January			February					
					19	26	03	10	17	24	31	07	14	21	28	04	11	18	25
Wall - Lower Portion																			
A1320	Remove S3 and S4 Strut + Waling	2	02-Jan-18	03-Jan-18															
A1330	Erect Working Platform and Rebar Fixing	2	04-Jan-18	05-Jan-18															
A1340	Erect and Formwork	3	06-Jan-18	09-Jan-18															
A1350	Concreting	1	10-Jan-18	10-Jan-18															
A1360	Vertical Water Proofing	1	11-Jan-18	11-Jan-18															
A1370	Backfilling	3	12-Jan-18	15-Jan-18															
Wall - Upper Portion																			
A1380	Remove S1 and S2 Strut + Waling	2	16-Jan-18	17-Jan-18															
A1390	Erect Working Platform and Rebar Fixing	3	18-Jan-18	20-Jan-18															
A1400	Erect and Formwork	3	22-Jan-18	24-Jan-18															
A1410	Concreting	1	25-Jan-18	25-Jan-18															
A1420	Vertical Water Proofing	1	26-Jan-18	26-Jan-18															
Bay 3																			
Base Slab																			
A1430	Blinding	1	29-Dec-17	29-Dec-17															
A1440	Water Proofing Membrane	2	30-Dec-17	02-Jan-18															
A1450	Rebar fixing	4	03-Jan-18	06-Jan-18															
A1460	Erect Formwork	4	05-Jan-18	09-Jan-18															
A1470	Remove Formwork and Apply Vertical Water Proofing	2	10-Jan-18	11-Jan-18															
Wall - Lower Portion																			
A1480	Remove S3 and S4 Strut + Waling	2	12-Jan-18	13-Jan-18															
A1490	Erect Working Platform and Rebar Fixing	2	15-Jan-18	16-Jan-18															
A1500	Erect and Formwork	3	17-Jan-18	19-Jan-18															
A1510	Concreting	1	20-Jan-18	20-Jan-18															
A1520	Vertical Water Proofing	1	22-Jan-18	22-Jan-18															
A1530	Backfilling	3	23-Jan-18	25-Jan-18															
Wall - Upper Portion																			
A1540	Remove S1 and S2 Strut + Waling	2	26-Jan-18	27-Jan-18															
A1550	Erect Working Platform and Rebar Fixing	2	29-Jan-18	30-Jan-18															
A1560	Erect and Formwork	3	31-Jan-18	02-Feb-18															
A1570	Concreting	1	03-Feb-18	03-Feb-18															
A1580	Vertical Water Proofing	1	05-Feb-18	05-Feb-18															
Bay 4																			
Base Slab																			
A1590	Blinding	1	10-Jan-18	10-Jan-18															
A1600	Water Proofing Membrane	2	11-Jan-18	12-Jan-18															
A1610	Rebar fixing	4	13-Jan-18	17-Jan-18															
A1620	Erect Formwork	4	18-Jan-18	22-Jan-18															

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Contract HY/2009/19
Three Months Rolling Programme (20.Nov.2017 to 19.Feb.2018)

Activity ID	Activity Name	Original Duration	Start	Finish	2017			2018
					Oct	Nov	Dec	Jan
Total		112d	30-Jul-17 A	08-Feb-18				
Combine Programme - IEC, Marine, External Works (2017-10-26)		112d	30-Jul-17 A	08-Feb-18				
External Works		112d	30-Jul-17 A	08-Feb-18				
Zone 1		60d	30-Jul-17 A	21-Dec-17				
EXW_1010	Rockfill for retaining wall RW8E	9d	23-Oct-17	02-Nov-17				
Sub-soil Drain & Catch Pit Connection for Retianing Wall RW8E								
EXW_1050	Drawings confirmation, reconstruction of 1 existing catchpit and 1 addition catchpit	7d	20-Oct-17 A	27-Oct-17				
EXW_1060	2 catchpits on hold due to the revised drainage alignment after MH2-74	1d	30-Oct-17	30-Oct-17				
Drainage Alignment Confirmation for MH72, 73, 74 due to Tree T1106								
EXW_1120	Construction of MH2-73,MH2-73A, MH2-74 and the associated drainage works	28d	15-Sep-17 A	19-Oct-17 A				
EXW_1130	New sketches received for addition manhole MH2-74	1d	26-Sep-17 A	26-Sep-17 A				
Works under this Section can be started unless Drainage & Sub-soil Problem are Resolved & Work Done								
EXW_1470	Watermain pipes connection to existing water valves	20d	23-Oct-17	15-Nov-17				
EXW_1150	TCSS (2 nos. drawpits and ductings)	10d	30-Oct-17	09-Nov-17				
EXW_1480	Paving carriageway	10d	07-Nov-17	17-Nov-17				
EXW_1490	Reinstatement of footpath	15d	07-Nov-17	23-Nov-17				
EXW_1500	Construction of 8 nos. of removable bollards, AECOM letter ref. no. (CWB/HY/2010/08)/M25/220/08B0	15d	18-Nov-17	05-Dec-17				
EXW_1510	Kerb & railing works	14d	06-Dec-17	21-Dec-17				
Othe Works not Affected by Drainage Works								
EXW_1520	Fabrication of parapet	60d	30-Jul-17 A	03-Oct-17 A				
EXW_1530	Parapet for retaining wall RW8D	20d	20-Oct-17 A	11-Nov-17				
EXW_1550	OHVD footing and poles in traffic island (1 no.)	14d	30-Oct-17*	14-Nov-17				
EXW_1560	CCTV (5m) footing, kiosk & earth pit	7d	30-Oct-17	06-Nov-17				
EXW_1570	TCSS (6 nos. of draw pits and ductings)	15d	07-Nov-17	23-Nov-17				
EXW_1540	Installation of directional sign DS16 steel frame	5d	13-Nov-17	17-Nov-17				
Zone 2		62d	15-Aug-17 A	05-Dec-17				
EXW_1770	Subbase and kerb laying works	20d	19-Sep-17 A	13-Oct-17 A				
EXW_1780	Preparation works for gate 7A relocation	5d	14-Oct-17 A	19-Oct-17 A				
EXW_1850	Temporary connection of watermain to the existing DAV (1 no. DAV. Pipe) and testing	20d	16-Oct-17 A	08-Nov-17				
EXW_1790	Gate 7A 1st relocation to maintain access to tunnel	1d	20-Oct-17 A	20-Oct-17 A				
EXW_1810	Parapet for retaining wall RW8C	25d	20-Oct-17 A	18-Nov-17				
EXW_1820	VMS6 steel frame at verge (fabrication completed, pending for installation)	20d	20-Oct-17 A	13-Nov-17				
EXW_1830	FVMSH3 sign gantry (fabrication completed, pending for installation)	7d	20-Oct-17 A	27-Oct-17				
EXW_1870	Boundary fence trial panel installation	5d	25-Oct-17*	31-Oct-17				
EXW_1890	Irrigation system construction	15d	25-Oct-17*	11-Nov-17				
EXW_1880	Boundary fence Installation	30d	01-Nov-17	05-Dec-17				
EXW_1840	CCTV (15m) earth pit	8d	14-Nov-17	22-Nov-17				
Revised LCS Sign Gantry Footing & Steel Frame								
Steel Frame for LCS Sign Gantry								
EXW_1730	Fabrication of LCS sign gantry	60d	15-Aug-17 A	23-Oct-17				
EXW_1740	Delivery for installation of LCS sign gantry	10d	24-Oct-17	04-Nov-17				
Zone 3		84d	15-Sep-17 A	14-Jan-18				
EXW_1980	Boundary fence wall	40d	15-Sep-17 A	03-Nov-17				

- █ Actual Work
- █ Remaining Work
- █ Critical Remaining Work
- ◆ Milestone

Date	Revision	Checked	Approved
23-Oct-17	DWP-08 (1) - 3 Months Rolling	TL	TL

Activity ID	Activity Name	Original Duration	Start	Finish	2017				2018
					Oct	Nov	Dec	Jan	
EXW_2000	Connection of E&M and TCSS ducts in zone 3	10d	25-Sep-17 A	07-Oct-17 A	Connection of E&M and TCSS ducts in zone 3				
EXW_1990	Demolition of old DS17 footing	7d	21-Oct-17 A	30-Oct-17	Demolition of old DS17 footing				
Traffic Island		84d	21-Oct-17 A	14-Jan-18					
EXW_2010	SCP4 substructure (footing and mass concrete) construction by LJV	7d	21-Oct-17 A	30-Oct-17	SCP4 substructure (footing and mass concrete) construction by LJV				
EXW_2030	TTM commencement for Traffic Island	1d	31-Oct-17	31-Oct-17	TTM commencement for Traffic Island				
EXW_2040	Reconstruction of new DS17 footing	14d	01-Nov-17	16-Nov-17	Reconstruction of new DS17 footing				
EXW_2050	Directional sign DS17 steel frame	7d	17-Nov-17	24-Nov-17	Directional sign DS17 steel frame				
EXW_2060	New VMS6 steel frame	7d	25-Nov-17	02-Dec-17	New VMS6 steel frame				
EXW_2070	TCSS and lighting at island	7d	04-Dec-17	11-Dec-17	TCSS and lighting at island				
EXW_2080	JTIS (3 nos. footings, 1 no. concrete plinth)	14d	12-Dec-17	29-Dec-17	JTIS (3 nos. footings, 1 no. concrete plinth)				
EXW_2090	Storm drainage and gully at island	12d	30-Dec-17	13-Jan-18	Storm drainage and gully at island				
EXW_2100	Kerb for island	6d	30-Dec-17	06-Jan-18	Kerb for island				
EXW_2110	Pavement works of carriageway	6d	08-Jan-18	13-Jan-18	Pavement works of carriageway				
EXW_2120	Allocation of traffic island area to LJV for SCP4 superstructure construction	1d	14-Jan-18	14-Jan-18	Allocation of traffic island area to LJV for SCP4 superstructure construction				
Nursery Compound		74d	23-Sep-17 A	20-Jan-18					
EXW_2140	Metal works and cat ladder works	10d	23-Sep-17 A	06-Oct-17 A	Metal works and cat ladder works				
EXW_2150	Fire services (procurement and installation)	60d	23-Sep-17 A	05-Dec-17	Fire services (procurement and installation)				
EXW_2160	Floor waterproofing	10d	23-Sep-17 A	06-Oct-17 A	Floor waterproofing				
EXW_2170	Procurement, plumbing and sanitary services	45d	23-Sep-17 A	17-Nov-17	Procurement, plumbing and sanitary services				
EXW_2180	Electricity connection works and lighting	30d	23-Sep-17 A	31-Oct-17	Electricity connection works and lighting				
Associated Works in planting Area of Nursery Compound		74d	06-Oct-17 A	20-Jan-18					
EXW_2190	Confirmation of possible tree fell of the three retained trees T267,T268,T269 by VPMO and LCSD	1d	06-Oct-17 A	06-Oct-17 A	Confirmation of possible tree fell of the three retained trees T267,T268,T269 by VPMO and LCSD				
EXW_2200	Waterworks (FS Fresh and Salt Water, Fresh Water) and Irrigation System	15d	07-Oct-17 A	24-Oct-17	Waterworks (FS Fresh and Salt Water, Fresh Water) and Irrigation System				
EXW_2210	Drainage works	15d	25-Oct-17	11-Nov-17	Drainage works				
EXW_2230	Addition swan neck fire hydrant to be constructed for nursery compound	15d	25-Oct-17	11-Nov-17	Addition swan neck fire hydrant to be constructed for nursery compound				
EXW_2220	Reinstatement of existing boundary fence wall around nursery compound	44d	13-Nov-17	05-Jan-18	Reinstatement of existing boundary fence wall around nursery compound				
EXW_2240	EVA	13d	06-Jan-18	20-Jan-18	EVA				
Zone 4 up to Elderly Facilities		90d	30-Aug-17 A	08-Feb-18					
Elderly Facilities V/039 Received on 22 Jun 2017		87d	18-Sep-17 A	05-Feb-18					
EXW_2260	Confirmation with LCSD	30d	18-Sep-17 A	24-Oct-17	Confirmation with LCSD				
EXW_2270	Facilities fabrication	59d	25-Oct-17	05-Jan-18	Facilities fabrication				
EXW_2280	Ground levelling, drainage works and safety met installation	26d	06-Jan-18	05-Feb-18	Ground levelling, drainage works and safety met installation				
Additional Walkway & Arbour V/040 Received on 22 Aug 2017		90d	30-Aug-17 A	08-Feb-18					
EXW_2290	Subletting	30d	30-Aug-17 A	04-Oct-17 A	Subletting				
EXW_2300	Arbour confirmation and fabrication	60d	06-Oct-17 A	15-Dec-17	Arbour confirmation and fabrication				
EXW_2310	Associated drainage works for the walkway	18d	16-Dec-17	09-Jan-18	Associated drainage works for the walkway				
EXW_2320	Arbour installation and walkway construction	26d	10-Jan-18	08-Feb-18	Arbour installation and walkway construction				
SR8 Tunnel		30d	23-Aug-17 A	17-Nov-17					
Zone A		30d	23-Aug-17 A	20-Oct-17 A					
Construction of Additional 8 nos. of Draw Pits for Road Lighting		15d	08-Sep-17 A	25-Sep-17 A					
EXW_2390	Construction of drawpits and ductings	15d	08-Sep-17 A	25-Sep-17 A	Construction of drawpits and ductings				
Installation of Precast Concrete Covers for Cable Trough		30d	23-Aug-17 A	20-Oct-17 A					
EXW_2440	Fabrication of precast concrete cover	30d	23-Aug-17 A	26-Sep-17 A	Fabrication of precast concrete cover				
EXW_2910	Installation of precast concrete cover	20d	26-Sep-17 A	20-Oct-17 A	Installation of precast concrete cover				

Activity ID	Activity Name	Original Duration	Start	Finish	2017				2018	
					Oct	Nov	Dec	Jan		
Zone B										
Pump Sump E										
EXW_2480	Cat ladder installation (5 nos.)	20d	15-Sep-17 A	10-Oct-17 A	■					
EXW_2490	Cover installation (5 nos.)	10d	11-Oct-17 A	21-Oct-17 A	■					
Pump Sump E Hand Rail										
EXW_2530	Installation of handrail (agreed with CC contract)	7d	23-Oct-17 A	31-Oct-17		■				
Egress Passage										
EXW_2550	Railing installation (2 nos. - 10m)	15d	01-Nov-17	17-Nov-17			■			
Installation of Precast Concrete Covers for Cable Trough										
EXW_2570	Installation of precast concrete cover (agreed with CC contract)	15d	01-Nov-17	17-Nov-17			■			
SR8 - C6 Stitching Structure Construction										
Base Slab Construction										
EXW_2770	Shuffle the vehicular access	5d	21-Sep-17 A	26-Sep-17 A	■					
EXW_2780	Construction of 2nd portion base slab	7d	23-Oct-17	31-Oct-17		■				
SR8 - Rotational Joint Installation										
EXW_2840	Omega seal installation (by specialist subcontractor Atlas)	21d	08-Sep-17 A	03-Oct-17 A	■					
EXW_2880	Tentative water recharge date in base slab C6 (Date of first vertical cut: 10/10/2017)	1d	10-Oct-17 A	10-Oct-17 A	■					
Proprietary Cantilever Teeth Expansion Joint Installation for Base Slab (by Freyssinet)										
EXW_2850	Procurement (2 months)	60d	30-Aug-17 A	10-Nov-17	■	■				
EXW_2860	Installation (TBC in coordination with bituminous works of LJV)	14d	11-Nov-17	27-Nov-17		■				
EXW_2870	Steel protection	14d	28-Nov-17	13-Dec-17			■			
Levelling of Base Slab (To be Agreed with LJV)										
EXW_2900	Leveling of Base Slab (To be agreed with LJV)	15d	28-Nov-17	14-Dec-17			■			
Marine Works										
SR8 -2-West (W4D8 to W4D11, W3D5 to W3D7)										
MW_1190	Horizontal cut at Panel W4D8-W4D11, W3D5-W3D7 (28 nos.)	5d	20-Sep-17 A	24-Sep-17 A	■					
Stage 1 - Footpath Diversion (West Side)										
MW_1230	Stage 1-Diversion of Footpath (West Side)	1d	24-Sep-17 A	24-Sep-17 A	■					
MW_1240	Removal of temporary footpath	8d	01-Oct-17 A	08-Oct-17 A	■					
Works above Zone C - Bay C6										
MW_1250	Mobilization of backhoe	1d	01-Oct-17 A	01-Oct-17 A	■					
MW_1260	Backfill G400 rock for reinstatement of sloping seawall	5d	02-Oct-17 A	06-Oct-17 A	■					
MW_1280	Break and remove re-prop wall	6d	07-Oct-17 A	12-Oct-17 A	■					
MW_1290	Backfill G200 & G400 rock to final profile	4d	13-Oct-17 A	16-Oct-17 A	■					
Removal of D-wall at Landing Step of Existing Vertical Seawall (W4D13, 14)										
MW_1300	Temporary fill upto +0.00mPD for working platform	2d	17-Oct-17 A	18-Oct-17 A	■					
MW_1310	Break and remove D-wall W4D13 & 14 to +1.5mPD	8d	23-Oct-17	30-Oct-17	■					
MW_1320	Break and remove D-wall at Panel W4D13 sea side to -2.0mPD	4d	31-Oct-17	03-Nov-17	■					
MW_1330	Install basket for D-wall cut hole	3d	04-Nov-17	06-Nov-17			■			
Reinstatement of Vertical Seawall										
MW_1340	Excavate the formation level at end of Panel W4D14	1d	04-Nov-17	04-Nov-17			■			
MW_1350	Erect formwork at end of Panel W4D14	2d	05-Nov-17	06-Nov-17			■			
MW_1360	Pour mass concrete at end of Panel W4D14	1d	07-Nov-17	07-Nov-17			■			
MW_1370	Remove formworks	1d	08-Nov-17	08-Nov-17			■			

Activity ID	Activity Name	Original Duration	Start	Finish	2017				2018
					Oct	Nov	Dec	Jan	
MW_1380	Install granite facing stone 1st layer	2d	09-Nov-17	10-Nov-17		■ Install granite facing stone 1st layer			
MW_1390	Pour concrete behind 1st layer of facing stone	1d	11-Nov-17	11-Nov-17		■ Pour concrete behind 1st layer of facing stone			
Stage 2 - Footpath Diversion (East Side)		8d	24-Oct-17	31-Oct-17					
MW_1400	Stage 2-Diversion of Footpath (East Side)	1d	24-Oct-17*	24-Oct-17		■ Stage 2-Diversion of Footpath (East Side)			
MW_1410	Remove temp. footpath & break footpath footing	7d	25-Oct-17	31-Oct-17		■ Remove temp. footpath & break footpath footing			
Removal of Pipe Pile Wall		18d	01-Nov-17	18-Nov-17					
MW_1420	Break the mass concrete at end of Bay 1 adjacent to land side	3d	01-Nov-17	03-Nov-17		■ Break the mass concrete at end of Bay 1 adjacent to land side			
MW_1430	Remove filled materials behind seawall bay 1 to +1.00mPD	3d	04-Nov-17	06-Nov-17		■ Remove filled materials behind seawall bay 1 to +1.00mPD			
MW_1440	Cut and remove the pipe pile wall	7d	12-Nov-17	18-Nov-17		■ Cut and remove the pipe pile wall			
Cut Remaining d-wall (W4D12, W4D15 to 16)		17d	19-Nov-17	05-Dec-17					
MW_1470	Remove remaining filled materials behind Bay 1	3d	19-Nov-17	21-Nov-17		■ Remove remaining filled materials behind Bay 1			
MW_1480	Remove half of seawall blocks at Bay 1 (80os.)	2d	22-Nov-17	23-Nov-17		■ Remove half of seawall blocks at Bay 1 (80os.)			
MW_1490	Vertical cut at W3D8-11, W4D12, W4D15-16 (14 nos.)	5d	24-Nov-17	28-Nov-17		■ Vertical cut at W3D8-11, W4D12, W4D15-16 (14 nos.)			
MW_1500	Horizontal cut at W3D8-11, W4D12, W4D15-16 (20 nos.)	5d	29-Nov-17	03-Dec-17		■ Horizontal cut at W3D8-11, W4D12, W4D15-16 (20 nos.)			
MW_1510	Remove remaining seawall blocks at Bay 1 (100 nos.)	2d	04-Dec-17	05-Dec-17		■ Remove remaining seawall blocks at Bay 1 (100 nos.)			
Removal of Sheet Pile Wall		3d	06-Dec-17	08-Dec-17					
MW_1520	Removal of Sheet Pile Wall	3d	06-Dec-17	08-Dec-17		■ Removal of Sheet Pile Wall			
Stage 3 - Diversion of Victoria Park Road		1d	15-Nov-17	15-Nov-17					
MW_1530	Stage 3 - Diversion of Victoria Road	1d	15-Nov-17*	15-Nov-17		■ Stage 3 - Diversion of Victoria Road			
Reinstatement of Remaining Vertical Seawall by Land Plants		35d	16-Nov-17	20-Dec-17					
MW_1540	Install granite facing stone 2nd layer	2d	16-Nov-17	17-Nov-17		■ Install granite facing stone 2nd layer			
MW_1550	Pour concrete behind 2nd layer of facing stone	1d	18-Nov-17	18-Nov-17		■ Pour concrete behind 2nd layer of facing stone			
MW_1560	Install granite facing stone 3rd layer	2d	19-Nov-17	20-Nov-17		■ Install granite facing stone 3rd layer			
MW_1570	Pour concrete behind 3rd layer of facing stone	1d	21-Nov-17	21-Nov-17		■ Pour concrete behind 3rd layer of facing stone			
MW_1580	Install granite facing stone 4th layer	2d	22-Nov-17	23-Nov-17		■ Install granite facing stone 4th layer			
MW_1590	Pour concrete behind 4th layer of facing stone	1d	24-Nov-17	24-Nov-17		■ Pour concrete behind 4th layer of facing stone			
MW_1600	Install granite facing stone 5th layer	2d	25-Nov-17	26-Nov-17		■ Install granite facing stone 5th layer			
MW_1610	Pour concrete behind 5th layer of facing stone	1d	27-Nov-17	27-Nov-17		■ Pour concrete behind 5th layer of facing stone			
MW_1620	Break the damage coping concrete	2d	28-Nov-17	29-Nov-17		■ Break the damage coping concrete			
MW_1630	Erect Formwork for coping	3d	30-Nov-17	02-Dec-17		■ Erect Formwork for coping			
MW_1640	Pour concrete for coping	1d	03-Dec-17	03-Dec-17		■ Pour concrete for coping			
MW_1650	Backfill up to formation level (6 layers)	13d	04-Dec-17	16-Dec-17		■ Backfill up to formation level (6 layers)			
MW_1660	Lay footpath paving blocks	4d	17-Dec-17	20-Dec-17		■ Lay footpath paving blocks			

Activity ID	Activity Name	Original Duration	Start	Finish	2017												2018		
					Nov						Dec						Jan		Feb
					1	2	3	4	5	6	1	2	3	4	5	6	1	2	1
Total		148d	07-Sep-17 A	02-Mar-18															
IEC Reinstatement Programme - REV-JL-01(CW Version) - Major - Minor Layout																			
Major Works for Substantial Completion of KD9 - Section 5b of Works																			
East Bound - Victoria Park Road																			
TTM Stage 2 - Revert Traffic back to Original Victoria Road																			
A1060	Removal of Pipe Pile Wall, D Wall and Sheet Pile Wall (Marine Team)	39d	25-Oct-17 A	02-Dec-17	Removal of Pipe Pile Wall, D Wall and Sheet Pile Wall (Marine Team)														
A1070	Installation of temp directional sign mounted on extg footbridge	1d	23-Dec-17	23-Dec-17	Installation of temp directional sign mounted on extg footbridge														
Existing Bridge Parapet Reinstatement																			
A1080	Construct parapet wall Type R3 (15m) and Type R2 (25m) on existing bridge	27d	07-Sep-17 A	10-Oct-17 A	Construct parapet wall Type R3 (15m) and Type R2 (25m) on existing bridge														
A1090	Install metal parapet on parapet wall (40m)	4d	13-Dec-17	16-Dec-17	Install metal parapet on parapet wall (40m)														
Removal of Light Weight Concrete Ramp																			
A1100	Erect bamboo scaffold with protection net	4d	03-Oct-17 A	07-Oct-17 A	Erect bamboo scaffold with protection net														
A1110	Remove temporary metal barrier on temporary road	4d	03-Oct-17 A	07-Oct-17 A	Remove temporary metal barrier on temporary road														
A1120	Remove flexible pavement and then break temp light weight concrete ramp (60m)	12d	03-Oct-17 A	23-Oct-17 A	Remove flexible pavement and then break temp light weight concrete ramp (60m)														
Reinstatement Works after Removal of Light Weight Concrete Ramp																			
A1130	Temporary diversions of Victoria Park Road after removing of light weight concrete ramp	2d	16-Oct-17 A	17-Oct-17 A	Temporary diversions of Victoria Park Road after removing of light weight concrete ramp														
A1140	Break up temporary asphalt pavement and cut hoarding	2d	18-Oct-17 A	19-Oct-17 A	Break up temporary asphalt pavement and cut hoarding														
A1150	Construct min. 1.5m width pedestrian footpath with concrete ramp	4d	20-Oct-17 A	23-Oct-17 A	Construct min. 1.5m width pedestrian footpath with concrete ramp														
A1160	Pedestrian Diversion of Victoria Park Road Footpath (Stage 2)	1d	24-Oct-17 A	24-Oct-17 A	Pedestrian Diversion of Victoria Park Road Footpath (Stage 2)														
Reinstatement Works within Traffic Deck																			
A1220	Break pipe piles and cut sheet pile	14d	24-Sep-17 A	09-Oct-17 A	Break pipe piles and cut sheet pile														
A1240	Dismantle 1.5m high metal barrier	2d	03-Oct-17 A	04-Oct-17 A	Dismantle 1.5m high metal barrier														
A1250	Break two concrete footings for temp traffic deck	2d	06-Oct-17 A	07-Oct-17 A	Break two concrete footings for temp traffic deck														
Drainage Works																			
A1190	Construct DN450 and DN375 stormwater pipe with 2 manholes (including removal of existing 450 concrete pipe)	4d	03-Oct-17 A	06-Nov-17	Construct DN450 and DN375 stormwater pipe with 2 manholes (including removal of existing 450 concrete pipe)														
A1170	Remove the temp uPVC divided pipe (45m) and two Manholes	2d	08-Oct-17 A	09-Oct-17 A	Remove the temp uPVC divided pipe (45m) and two Manholes														
A1180	Extend 2x225 concrete pipe with conc surround to new manhole SMH7008490 (including of water jet before extension pipes)	5d	05-Nov-17*	09-Nov-17	Extend 2x225 concrete pipe with conc surround to new manhole SMH7008490 (including of water jet before extension pipes)														
A2010	Excavate common trench and erect shoring for DN300 pipe, manholes and 400 PE pipe (including of removal exta PE pipe)	6d	07-Nov-17*	12-Nov-17	Excavate common trench and erect shoring for DN300 pipe, manholes and 400 PE pipe (including of removal exta PE pipe)														
A1185	CCTV survey of 2 existing DN225 pipeline (with water jet and within site area)	1d	10-Nov-17	10-Nov-17	CCTV survey of 2 existing DN225 pipeline (with water jet and within site area)														
A2370	Construct DN300 stormwater pipe with 2 Manholes	4d	27-Nov-17	30-Nov-17	Construct DN300 stormwater pipe with 2 Manholes														
Reinstatement of Existing Gas Main																			
A1280	Laying and connection of DN400mm gas main by HKCG	14d	13-Nov-17	26-Nov-17	Laying and connection of DN400mm gas main by HKCG														
A1270	Excavation for DN400mm Gas main outside TTA works area (night work and apply CNP and TTA)	20d	22-Nov-17 A	12-Nov-17	Excavation for DN400mm Gas main outside TTA works area (night work and apply CNP and TTA)														
Reinstatement Works of Carriageway Pavement for Stage 3 TTA																			
A1290	Backfilling common trench and then construct 5 gullies with DN150mm UPVC gully Pipes	4d	01-Dec-17	04-Dec-17	Backfilling common trench and then construct 5 gullies with DN150mm UPVC gully Pipes														
A1295	Lay cross road duct from drawpit A to VPR footpath	2d	05-Dec-17	06-Dec-17	Lay cross road duct from drawpit A to VPR footpath														
A1300	Reinstate the road kerb along VPR (70m)	4d	07-Dec-17	10-Dec-17	Reinstate the road kerb along VPR (70m)														
A1310	Well compact formation level and subbase by proof rolling method (instead of SRT)	2d	11-Dec-17	12-Dec-17	Well compact formation level and subbase by proof rolling method (instead of SRT)														
A1320	Lay flexible road pavement (RB, BC)	3d	13-Dec-17	15-Dec-17	Lay flexible road pavement (RB, BC)														
A1330	Expose and Install Manhole Covers	1d	15-Dec-17	15-Dec-17	Expose and Install Manhole Covers														
A1340	Lay flexible road pavement (PMSMA 10)	1d	16-Dec-17	16-Dec-17	Lay flexible road pavement (PMSMA 10)														
A1350	Implement next TTM stage 3 (VPR EB) with road marking	1d	17-Dec-17	17-Dec-17	Implement next TTM stage 3 (VPR EB) with road marking														
TTM Stage 3 - Reinstatement of Footpath along Seafont																			

- Actual Work
- Remaining Work
- Critical Remaining Work
- ◆ Milestone

Date	Revision	Checked	Approved
23-Oct-17	DWP-08 (1) - 3 Months Rolling	TL	TL

Activity ID	Activity Name	Original Duration	Start	Finish	2017				2018						
					Nov	Dec	Jan	Feb	Nov	Dec	Jan	Feb			
A2050	Lay flexible road pavement (RB, BC)	3d	05-Dec-17	07-Dec-17											
A2060	Expose and Install Manhole Covers	1d	07-Dec-17	07-Dec-17											
A2070	Lay flexible road pavement (PMSMA 10)	1d	08-Dec-17	08-Dec-17											
A2080	Lay road marking and erect permanent traffic signs	1d	08-Dec-17	08-Dec-17											
A2090	Implement next TTM stage 3 (Tsing Fung Street, WB)	1d	10-Dec-17	10-Dec-17											
TTM Stage 3 - Reinstatement of Victoria Park		103d	20-Nov-17	02-Mar-18											
Reinstatement Works in Traffic Deck		24d	10-Dec-17	02-Jan-18											
A2100	Break flexible pavement and concrete slab above WB traffic deck	3d	10-Dec-17	12-Dec-17											
A2110	Dismantle traffic deck and Cut king posts	5d	13-Dec-17	17-Dec-17											
A2120	Break two concrete footings	3d	18-Dec-17	20-Dec-17											
A2130	Backfill Type B Material up to 2m below F.F.L (Compaction by proof rolling method of 0.2m each layer)	3d	21-Dec-17	23-Dec-17											
A2140	Cut pipe piles and sheet pile	5d	24-Dec-17	28-Dec-17											
A2150	Backfill General Fill Material up to Formation Level (Avg. 1.5m height, by SRT method of 0.3m each layer, 5 layers)	3d	29-Dec-17	31-Dec-17											
A2160	Dismantle 1.5m high metal barrier	2d	01-Jan-18	02-Jan-18											
Reinstatement Works inside Victoria Park		103d	20-Nov-17	02-Mar-18											
A2180	Removal of Temporary 400 diameter Gas main	7d	20-Nov-17	26-Nov-17											
A2170	Reinstatement of Boundary Fence	21d	02-Jan-18	25-Jan-18											
A2190	Cutting sheet pile to 1.5m below finish slope profile (MS 169B)	10d	26-Jan-18	06-Feb-18											
A2200	Slope Reinstatement of Victoria Park	21d	03-Feb-18	02-Mar-18											
Completion of Minor Outstanding / Remaining Works for KD9		97d	05-Nov-17	09-Feb-18											
West Bound - Completion of Minor Outstanding / Remaining Works for KD9		97d	05-Nov-17	09-Feb-18											
Minor Reinstatement Works for Tsing Fung Street		13d	26-Jan-18	07-Feb-18											
A2240	Laying Public Lighting duct	6d	26-Jan-18	31-Jan-18											
A2250	Installation of public lighting post and connection by HyD	7d	01-Feb-18	07-Feb-18											
A2260	Well compact road formation level and subbase for SRT	6d	01-Feb-18	06-Feb-18											
Minor Reinstatement Works in IEC West Bound		97d	05-Nov-17	09-Feb-18											
A2300	Replacement of new movement joint at IEC W/B (Sun midnight only)	8d	05-Nov-17	12-Nov-17											
A2330	Repairing of 300 dia. concrete pipeline by lining under slow lane of IEC W/B	2d	05-Nov-17*	06-Nov-17											
A2310	Repairing of extg conc deck surface after milling of temp asphalt at IEC W/B and E/B (Sun midnight only)	59d	13-Nov-17	10-Jan-18											
A2320	Repairing of concrete defects on extg concrete deck and abutment M	30d	11-Jan-18	09-Feb-18											
A2340	Erection of new precast concrete panels (12 nos.) at abutment M facing to VPR	2d	11-Jan-18	12-Jan-18											
A2350	Reinstatement of fire hydrant mounted on external face of edge barrier at IEC W/B	3d	13-Jan-18	15-Jan-18											

Data Date: 20-Nov-17

CWB(CC) - Commissioning Contract

TASK filters: 3 Months_4, 3MRP, No Original Sections, No Summary, Not HL.

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2017				2018					
						Nov		Dec		Jan		Feb			
						1	2	1	2	1	2	1	2		
Update 2017-11-20 CWB(CC) - Commissioning Contract (DRM)															
PRELIMINARIES AND GENERAL REQUIREMENTS															
Salient Key Dates and Milestones															
Contract Key Dates															
KD004	KD4 - Achievement of Stage 4 (1377 days) - include EOT (81 days)	0		05-Dec-17*	0										
KD005	KD5 - Achievement of Stage 5 (1377 days) - include EOT (81 days)	0		05-Dec-17*	0										
KD006	KD6 - Completion of Section 1 of the Works (1377 days) - include EOT (81 days)	0		05-Dec-17*	0										
KD011	KD11 - Completion of Section 6 of the Works (1377 days) - include EOT (81 days)	0		05-Dec-17*	0										
KD007	KD7 - Completion of Section 2 of the Works (1437 days) - include EOT (80 days)	0		03-Feb-18*	0										
KD008	KD8 - Completion of Section 3 of the Works (1437 days) - include EOT (80 days)	0		03-Feb-18*	0										
Anticipated Completion Dates															
KD01	KD1 - Achievement of Stage 1 (1177 days) - include EOT No.3 (123 days)	0		23-Jan-18*	-249										
Possession Dates and Vacation Dates															
PO-IIa	Possession of Portion IIa (Day 1) - WVB below +6.5mPD	1329	28-Feb-14 A	18-Dec-17	-264										
PO-III	Possession of Portion III (Day 120) - CH1805-2600	1209	28-Jun-14 A	18-Dec-17	-307										
PO-Ib	Possession of Portion Ib (Day 242) - CH1580-1805	1087	28-Oct-14 A	18-Dec-17	-279										
PO-IXd	Possession of Portion IXd (Day 266) - CH4600-4860	1063	21-Nov-14 A	18-Dec-17	-282										
PO-XI	Possession of Portion XI (Day 296) - EVS	1033	21-Dec-14 A	18-Dec-17	272										
PO-IIc	Possession of Portion IIc (Day 336) - CH1360-1580	993	30-Jan-15 A	18-Dec-17	-264										
PO-IIb	Possession of Portion IIb (Day 336) - WVB above +6.5mPD	669	30-Jan-15 A	18-Dec-17	-264										
PO-IXa	Possession of Portion IXa (Day 392) - CH4860-5150	937	27-Mar-15 A	18-Dec-17	-282										
PO-Va	Possession of Portion V (Day 607) - CH2950-3210	722	28-Oct-15 A	18-Jan-18	-265										
PO-VII_a1	Possession of Portion VII (Day 762) - CH3911-4250 (below -6.0mPD)	659	30-Dec-15 A	18-Dec-17	-227										
PO-Vc	Possession of Portion V (Day 607) - CH3210-3250	658	15-Jan-16 A	18-Dec-17	-238										

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Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2017				2018	
						Nov		Dec		Jan	Feb
						Actual	Remaining	Actual	Remaining	Actual	Remaining
PO-Vlb_b1	Possession of Portion Vlb (Day 761) - CH3428-3625 (E/B)	619	18-Feb-16 A	18-Dec-17	-300	█	█	█	█		
PO-Vlb_b2	Possession of Portion Vlb (Day 761) - CH3428-3625 (W/B)	568	29-Feb-16 A	18-Dec-17	-279	█	█	█	█		
PO-Xa_1	Possession of Portion Xa (Day 650) - ADB Southern Portion (AECOM letter ref: 2015007890T)	589	07-Mar-16 A	18-Dec-17	-318	█	█	█	█		
PO-Xb_1	Possession of Portion Xb (Day 804) - ADB Northern Portion	589	07-Mar-16 A	18-Dec-17	-318	█	█	█	█		
PO-Vb1	Possession of Portion V (Day 607) - SR3	587	11-Mar-16 A	18-Jan-18	241	█	█	█	█	█	
PO-Ia	Possession of Portion Ia (Day 789) - SCB / SCP1 / SCP2 / Rumsey Street Flyover	600	28-Mar-16 A	18-Dec-17	-270	█	█	█	█		
PO-VII_a2	Possession of Portion VII (Day 762) - CH3800-3911 (below -6.0mPD)	567	31-Mar-16 A	18-Dec-17	-182	█	█	█	█		
PO-IXc_1	Possession of Portion IXc (Day 712) - EVB above 3.6mPD - Relinquished on 12 Apr 2016	445	29-Jul-16 A	18-Dec-17	-308	█	█	█	█		
PO-IXb_1	Possession of Portion IXb (Day 712) - EVB (below +3.6mPD to tunnel top slab) - Relinquished on 12 Apr 2016	445	05-Aug-16 A	18-Dec-17	-308	█	█	█	█		
PO-VIa_a	Possession of Portion VIa (Day 823) - CH3250-3283	425	15-Aug-16 A	18-Dec-17	-233	█	█	█	█		
PO-Vb2_a	Possession of Portion V (Day 607) - SR2	456	15-Aug-16 A	18-Dec-17	-304	█	█	█	█		
PO-VIc_a	Possession of Portion VIc (Day 761) - CH3770-3800 (Access Shaft Opening)	391	23-Sep-16 A	18-Dec-17	-264	█	█	█	█		
PO-VIb_c	Possession of Portion Vlb (Day 761) - CH3625-3770	391	23-Sep-16 A	18-Dec-17	-283	█	█	█	█		
PO-IVa1	Possession of Portion IVa (Day 930) - CH2600-2720	323	30-Nov-16 A	18-Dec-17	-238	█	█	█	█		
PO-IVb2	Possession of Portion IVb (Day 930) - MVB (GL D-H)	233	28-Feb-17 A	18-Dec-17	-314	█	█	█	█		
PO-VIIIa_a	Possession of Portion VIIIa (Day 929) - CH4530-4591 W/B	233	28-Feb-17 A	18-Dec-17	-227	█	█	█	█		
PO-VIIIa	Possession of Portion VIIIa (Day 929) - CH4250-4600 (Remaining)	241	12-Mar-17 A	18-Dec-17	-227	█	█	█	█		
PO-VIIIb	Possession of Portion VIIIb (Day 929) - SR8 (CH700-350)	233	12-Mar-17 A	18-Dec-17	-144	█	█	█	█		
PO-VIIIc	Possession of Portion VIIIc (Day 1039) - SR8 (CH350-310) / SCP4	233	12-Mar-17 A	18-Dec-17	-138	█	█	█	█		
PO-IVa2_a	Possession of Portion IVa (Day 930) - CH2720-2950	241	12-Mar-17 A	18-Dec-17	-238	█	█	█	█		
PO-IVb1	Possession of Portion IVb (Day 930) - MVB (GL A-C)	239	14-Mar-17 A	18-Dec-17	-314	█	█	█	█		
PO-IVa2_b	Possession of Portion IVa (Day 930) - SR1	203	30-Mar-17 A	18-Dec-17	-238	█	█	█	█		
PO-Vb2_b	Possession of Portion V (Day 607) - SCP3	182	03-Jul-17 A	18-Dec-17	-304	█	█	█	█		
PO-VIb_a	Possession of Portion Vlb (Day 761) - CH3400-3428	80	31-Jul-17 A	18-Dec-17	-268	█	█	█	█		

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						Actual Work	Critical Remaining Work	Actual Work	Critical Remaining Work	Actual Work	Critical Remaining Work
PO-VIa_b	Possession of Portion VIa (Day 823) - CH3283-3400	80	31-Jul-17 A	18-Dec-17	-284	[Gantt bars for PO-VIa_b]					
PO-IVc	Possession of Portion IVc (Day 1144) - MVB (above +5.0mPD)	111	08-Nov-17 A	18-Dec-17	-199	[Gantt bars for PO-IVc]					
DETAILED DESIGN OF WORKS											
Permanent Works Design and Engineering											
Green Roof on EVB											
2166	EVB Roof - Engineer review & Approval; Consent to Proceed Construction	24	18-Apr-16 A	02-Dec-17	-208	[Gantt bars for 2166]					
Green Wall on ADB											
10238	ADB Green Wall - Engineer review & Approval; Consent to Proceed Construction	24	07-Mar-16 A	02-Dec-17	-247	[Gantt bars for 10238]					
Landscaping & Associated Irrigation System											
10268	Landscaping - Engineer review & Approval; Consent to Proceed Construction	24	07-Mar-16 A	02-Dec-17	-210	[Gantt bars for 10268]					
Access Road at Area D & E											
12720	Access Road at Area D & E - Prepare design submission	24	09-Jun-17 A	17-Nov-17 A		[Gantt bars for 12720]					
12726	Access Road at Area D & E - Submission of design to MTRC / AECOM	0		17-Nov-17 A		[Milestone for 12726]					
12724	Access Road at Area D & E - MTRC/AECOM review & Approval; Consent to Proceed Construction	28	18-Nov-17 A	18-Nov-17 A		[Gantt bars for 12724]					
PROCUREMENT, MANUFACTURING & DELIVERIES											
Procurement; Manufacturing; Deliveries											
Metal Roof on MVB											
Procurement & Fabrication											
10082	MVB Roof - Metal Roof delivery	24	09-Oct-17 A	09-Nov-17 A		[Gantt bars for 10082]					
Green Roof on EVB											
Shop Drawings											
12846	EVB Green Roof - Shop Drawings review the Engineer	30	03-Aug-17 A	29-Nov-17	-252	[Gantt bars for 12846]					
2230	EVB Green Roof - Obtain Approval for Shop Drawings	0		29-Nov-17	-252	[Milestone for 2230]					
Procurement & Fabrication											

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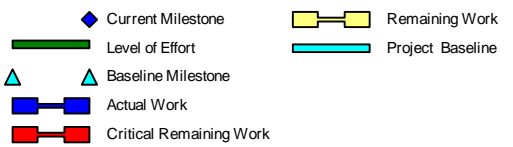
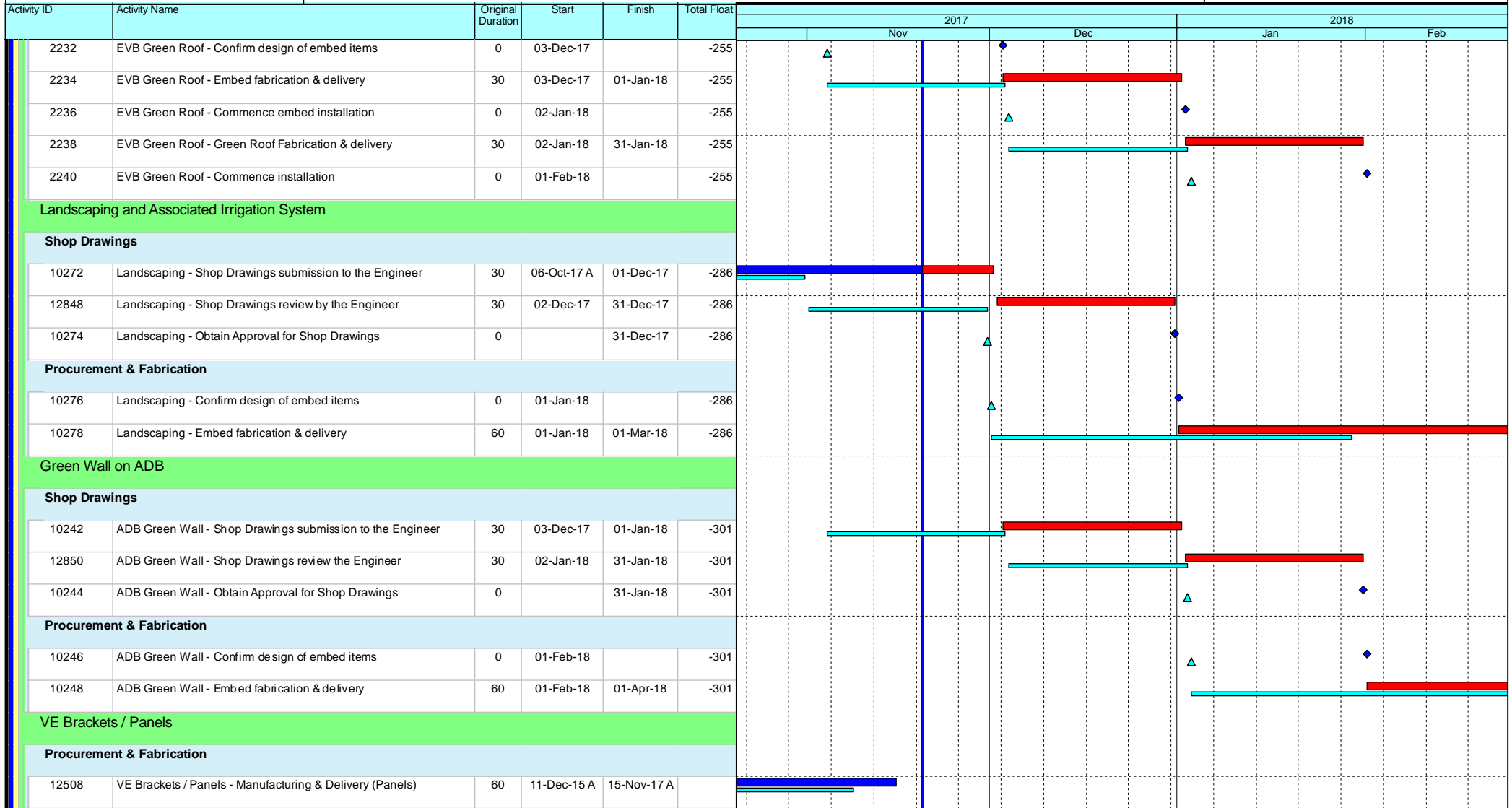
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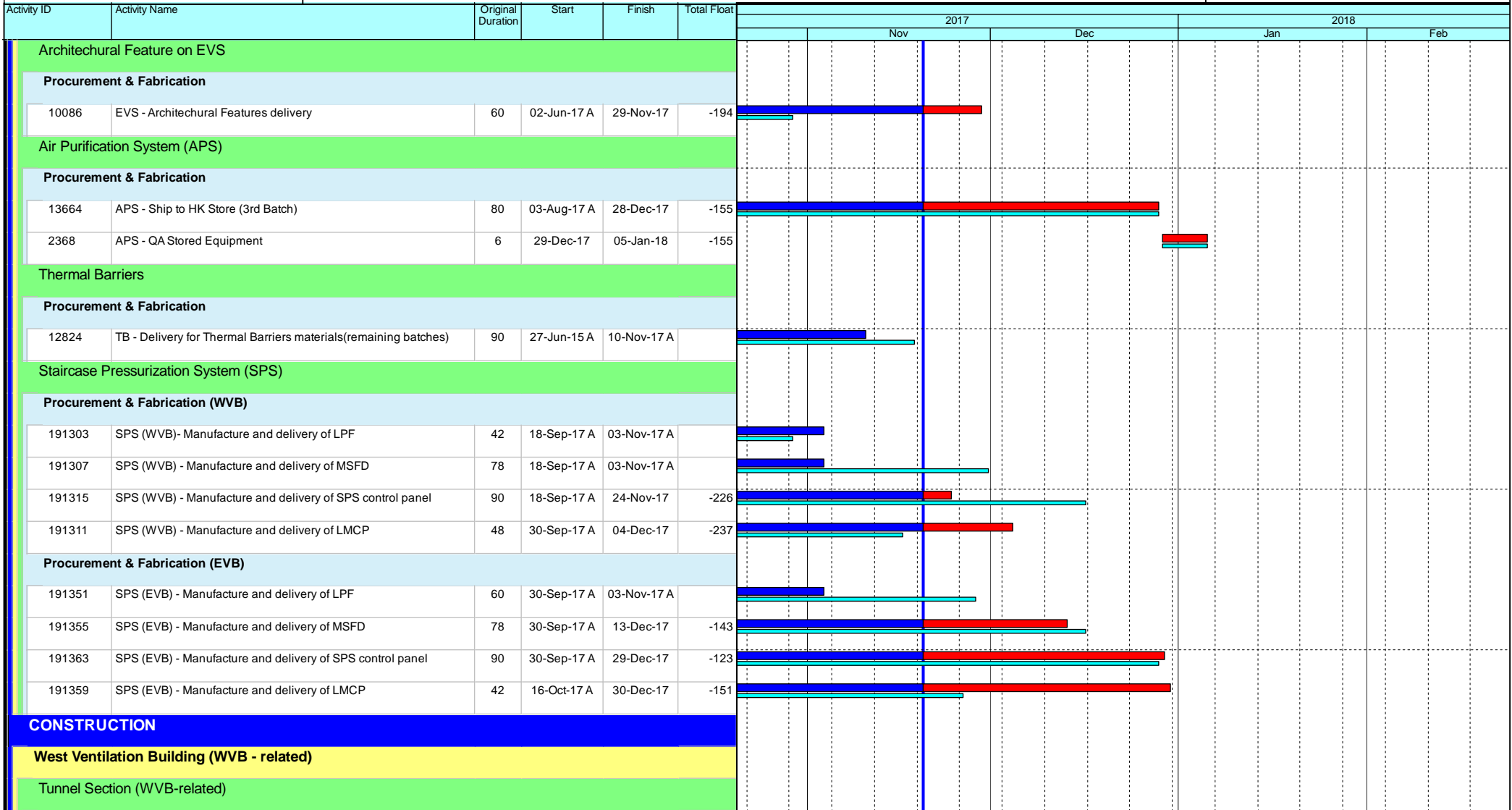
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CWB(CC) - Commissioning Contract

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Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2017				2018	
						Nov		Dec		Jan	Feb
						Actual	Remaining	Actual	Remaining	Actual	Remaining
Portion Ia, IIc [CH840 to CH1360]											
13086a	Request for VO / instruction for TCSS equipment installation and cabling (Ganty FADS01) (Ref: H27613-LJV-ME-LE-4022)	24	04-Oct-16 A	09-Dec-17	-136						
13086	TCSS cabling and sign face installation (FADS01) - Start date is tentative and need to be confirmed at a later stage	40	11-Dec-17	29-Jan-18	-89						
Westbound											
5000	MEP(WB) - (CH840 to CH1360) E&M 1st Fix	29	05-Jun-17 A	25-Nov-17	-49						
5008	MEP(WB) - (CH840 to CH1360) E&M 2nd Fix (include Sump A)	58	12-Jun-17 A	30-Nov-17	-41						
5016	MEP(WB) - (CH840 to CH1360) E&M Final Fix	24	02-Nov-17 A	02-Dec-17	-43						
5024	MEP(WB) - (CH840 to CH1360) TCSS Field equip & cable installation	18	10-Nov-17 A	09-Dec-17	-49						
Eastbound											
6100	MEP(EB) - (CH840 to CH1360) E&M 1st Fix	29	01-Mar-17 A	25-Nov-17	-217						
6102	MEP(EB) - (CH840 to CH1360) E&M 2nd Fix (include Sump A)	58	22-May-17 A	30-Nov-17	-209						
6104	MEP(EB) - (CH840 to CH1360) E&M Final Fix	24	02-Nov-17 A	02-Dec-17	-211						
6106	MEP(EB) - (CH840 to CH1360) TCSS Field equip & cable installation	18	10-Nov-17 A	09-Dec-17	-217						
Portion IIa [CH1360 to CH1580]											
Westbound											
9938	MEP(WB) - (CH1360 to CH1580) VE Panel installation (Upper part) (1920m2)	54	06-Apr-17 A	23-Dec-17	-198						
Portion Ib [CH1580 to CH1800]											
Westbound											
9942	MEP(WB) - (CH1580 to CH1800) VE Panel installation (Upper part) (2700m2)	54	06-Apr-17 A	28-Dec-17	-200						
Portion III [CH1800 to CH2600]											
Westbound											
9946	MEP(WB) - (CH1800 to CH2600) VE Panel installation (Upper part) (9600m2)	54	06-Apr-17 A	09-Dec-17	-200						
Eastbound											
9948	MEP(EB) - (CH1800 to CH2600) VE Panel installation (Upper part) (9600m2)	54	08-May-17 A	02-Dec-17	-194						

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Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2017				2018					
						Nov		Dec		Jan		Feb			
						1	2	1	2	1	2	1	2		
West Ventilation Building (WVB)															
RC Structures and Metal Roof															
Metal Roof															
10454	WVB - Touch up (Steel structure)	12	16-Dec-17	02-Jan-18	-151										
10456	WVB - Touch up (Roof cladding)	12	03-Jan-18	16-Jan-18	-151										
Metal Roof Eastern Side (M.J. East)															
10442a4	WVB - Installation of extra roof fins support (M.J.East) (VO) (Tentative, duration subject to change)	42	11-Sep-17 A	06-Dec-17	-119										
10452a	WVB - Roof cladding / (East Boundary)	30	16-Sep-17 A	15-Dec-17	-176										
Metal Roof Western Side (M.J. West)															
10448a	WVB - Roof cladding / (West boundary)	60	03-Oct-17 A	15-Dec-17	-176										
13666	WVB - Installation of extra roof fins support (M.J.West) (VO) (Tentative, duration subject to change)	36	13-Nov-17 A	15-Dec-17	-176										
MEP & ABWF Works															
3058	WVB - Metal works / steel platform / Ladders / Handrails	48	07-Sep-17 A	12-Dec-17	-172										
3088	MEP(WVB) - TCSS Enabling Works (Remaining TCSS / E&M installation)	30	08-Nov-17 A	12-Dec-17	-75										
E&M Individual System T&C															
10672b	MEP(WVB) - TVS System Test	12	04-Oct-17 A	25-Nov-17	-184										
10672m	MEP(WVB) - Damper control panel and tunnel motorized damper functional test	36	16-Oct-17 A	25-Nov-17	-184										
10672o	MEP(WVB) - Staircase Pressurization System Test	6	23-Dec-17	02-Jan-18	-203										
1/F															
Gas Cylinder Room (L1-05)															
10822	MEP(WVB) - E&M final fixing	24	18-Jan-17 A	30-Oct-17 A											
Staircase Pressurization System (G/F)															
G/F															
191317	SPS (WVB) - Dismantle existing E&M services	12	06-Nov-17 A	25-Nov-17	-198										

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Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2017				2018	
						Nov		Dec		Jan	Feb
						Actual	Remaining	Actual	Remaining	Actual	Remaining
191321	SPS (WVB) - Power termination for LMCP	6	20-Nov-17	25-Nov-17	-174						
191323	SPS (WVB) - Conduit and wiring works for SPS control	24	20-Nov-17	16-Dec-17	-198						
191325	SPS (WVB) - LFP installation	6	20-Nov-17	25-Nov-17	-198						
191329	SPS (WVB) - Airduct work and FRP enclosure	29	20-Nov-17	22-Dec-17	-203						
191319	SPS (WVB) - LMCP installation	6	05-Dec-17	11-Dec-17	-193						
191327	SPS (WVB) - MSFD installation	6	11-Dec-17	16-Dec-17	-198						
191331	SPS (WVB) - SPS control panel installation	5	12-Dec-17	16-Dec-17	-198						
APS											
3166a	APS(WVB) - Delivery of HV power supply	0		15-Jan-18*	-44						
3166b	APS(WVB) - Installation of HV power supply (including transformer and controller for WVB)	6	16-Jan-18	22-Jan-18	-44						
3166c	APS(WVB) - Testing of HV power supply for WVB	6	23-Jan-18	29-Jan-18	-44						
External Works											
3104	WVB - External Fence Wall (VO/131)	48	28-Aug-17 A	28-Oct-17 A							
3100a	WVB - Podium deck construction	60	18-Sep-17 A	17-Nov-17 A							
3100c	WVB - Extension of parapet wall (VO/131)	36	18-Sep-17 A	30-Oct-17 A							
3100b	WVB - waterproofing between building and tunnel roof interface and backfill	60	03-Oct-17 A	16-Nov-17 A							
3102	WVB - External concrete pavement (include EVA) (include EVA lighting)	66	16-Oct-17 A	28-Dec-17	-200						
3106	WVB - Final completion works (include CCMS interface)	48	17-Jan-18	20-Mar-18	-119						
10884	WVB - External lamp pole, bollard & recess wall lighting installation	48	17-Jan-18	20-Mar-18	-119						
E&M Testing & Commissioning / Statutory Inspection											
3120c	MEP(WVB) - Fire Services & CCMS System Integrated Testing and Commissioning (include TFS System Test)	36	04-Oct-17 A	17-Nov-17 A							
3120a2	MEP(WVB) - TVS E-mode Test (Stage 1)	42	06-Nov-17 A	15-Dec-17	-245						
3120a	MEP(WVB) - TVS & CCMS System Integrated Testing and Commissioning	36	26-Nov-17	31-Dec-17	-226						
3120b	MEP(WVB) - Tunnel Lighting & CCMS System Integrated Testing and Commissioning	24	26-Nov-17	19-Dec-17	-214						

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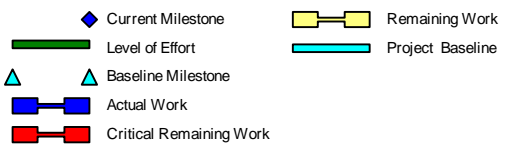
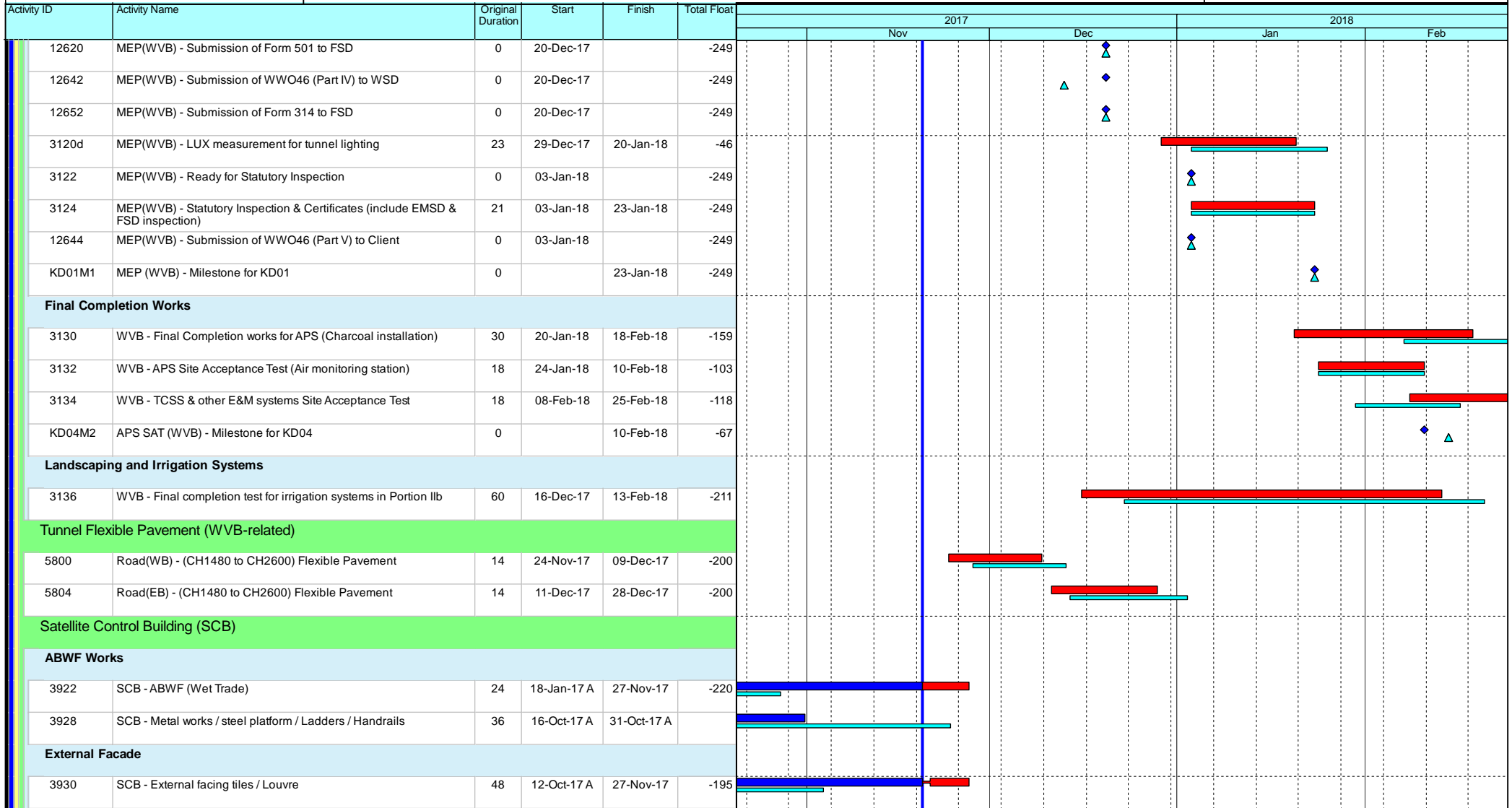
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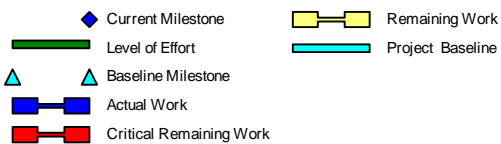
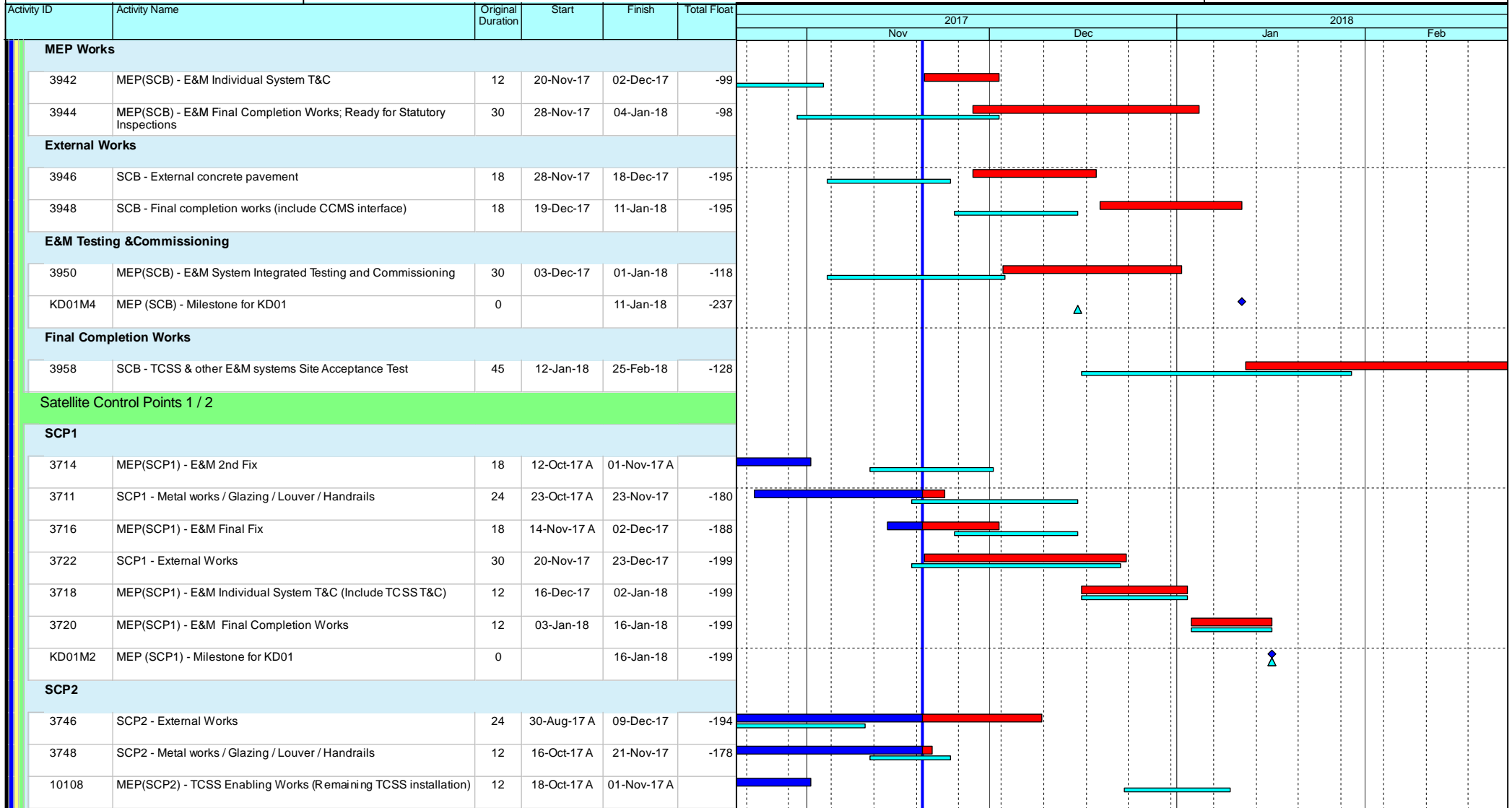
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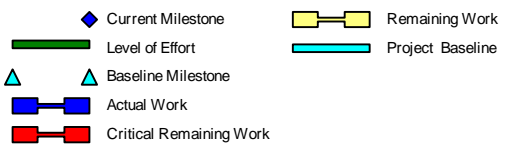
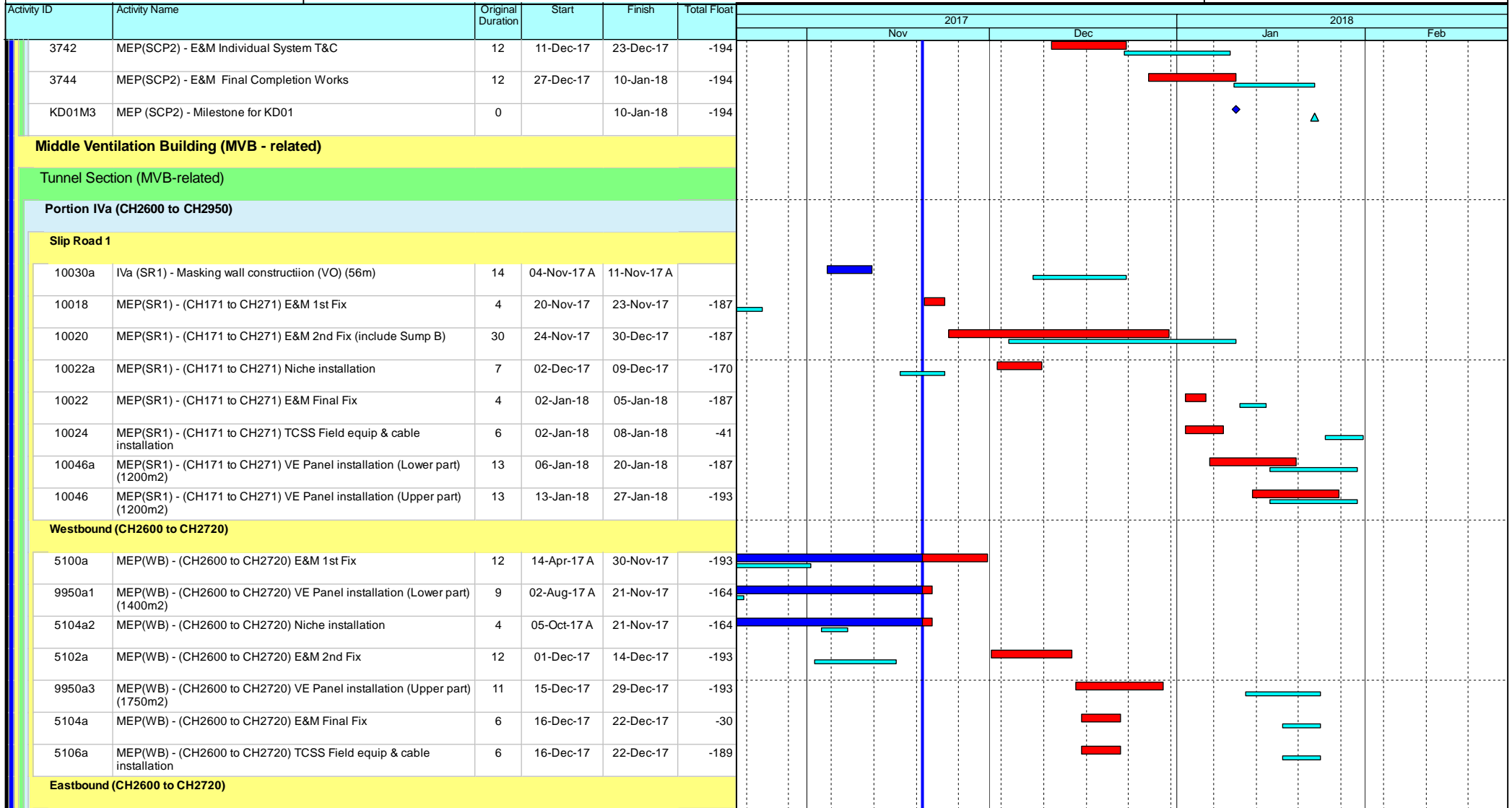
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Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2017												2018		
						Nov						Dec						Jan		Feb
						1	2	3	4	5	6	1	2	3	4	5	6	1	2	1
5118a	MEP(EB) - (CH2600 to CH2720) E&M 1st Fix	12	12-Apr-17 A	30-Nov-17	-189	[Gantt bars for Nov-Dec 2017]														
5122a2	MEP(EB) - (CH2600 to CH2720) Niche installation	4	05-Oct-17 A	21-Nov-17	-164	[Gantt bars for Nov-Dec 2017]														
5130a1	IVa(EB) - Masking wall construction (VO) (23m)	12	16-Oct-17 A	11-Nov-17 A		[Gantt bars for Nov-Dec 2017]														
9952a1	MEP(EB) - (CH2600 to CH2720) VE Panel installation (Lower part) (1400m2)	9	22-Nov-17	01-Dec-17	-160	[Gantt bars for Nov-Dec 2017]														
5120a	MEP(EB) - (CH2600 to CH2720) E&M 2nd Fix	7	01-Dec-17	08-Dec-17	-189	[Gantt bars for Nov-Dec 2017]														
5122a	MEP(EB) - (CH2600 to CH2720) E&M Final Fix	6	09-Dec-17	15-Dec-17	-183	[Gantt bars for Nov-Dec 2017]														
5124a	MEP(EB) - (CH2600 to CH2720) TCSS Field equip & cable installation	6	09-Dec-17	15-Dec-17	-189	[Gantt bars for Nov-Dec 2017]														
9952a3	MEP(EB) - (CH2600 to CH2720) VE Panel installation (Upper part) (1750m2)	11	30-Dec-17	12-Jan-18	-193	[Gantt bars for Nov-Dec 2017]														
Westbound (CH2720 to CH2950)																				
5104b2	MEP(WB) - (CH2720 to CH2950) Niche installation	4	05-Oct-17 A	21-Nov-17	-5	[Gantt bars for Nov-Dec 2017]														
5100b	MEP(WB) - (CH2720 to CH2950) E&M 1st Fix	19	20-Nov-17	11-Dec-17	-193	[Gantt bars for Nov-Dec 2017]														
9950b	MEP(WB) - (CH2720 to CH2950) VE Panel installation (Lower part) (2247m2)	13	20-Nov-17	04-Dec-17	-162	[Gantt bars for Nov-Dec 2017]														
5102b	MEP(WB) - (CH2720 to CH2950) E&M 2nd Fix	12	12-Dec-17	27-Dec-17	-193	[Gantt bars for Nov-Dec 2017]														
5106b	MEP(WB) - (CH2720 to CH2950) TCSS Field equip & cable installation	12	19-Dec-17	04-Jan-18	-189	[Gantt bars for Nov-Dec 2017]														
5104b	MEP(WB) - (CH2720 to CH2950) E&M Final Fix	12	28-Dec-17	11-Jan-18	-44	[Gantt bars for Nov-Dec 2017]														
9950b1	MEP(WB) - (CH2720 to CH2950) VE Panel installation (Upper part) (2247m2)	13	28-Dec-17	12-Jan-18	-193	[Gantt bars for Nov-Dec 2017]														
Eastbound (CH2720 to CH2950)																				
5122b2	MEP(EB) - (CH2720 to CH2950) Niche installation	4	05-Oct-17 A	21-Nov-17	-128	[Gantt bars for Nov-Dec 2017]														
5130b1	IVa(EB) - Masking wall construction (VO) (283m)	36	16-Oct-17 A	11-Nov-17 A		[Gantt bars for Nov-Dec 2017]														
5118b	MEP(EB) - (CH2720 to CH2950) E&M 1st Fix	12	20-Nov-17	02-Dec-17	-171	[Gantt bars for Nov-Dec 2017]														
5120b	MEP(EB) - (CH2720 to CH2950) VE Panel installation (Lower part) (2247m2)	13	02-Dec-17	16-Dec-17	-160	[Gantt bars for Nov-Dec 2017]														
9952b	MEP(EB) - (CH2720 to CH2950) E&M 2nd Fix	12	04-Dec-17	16-Dec-17	-171	[Gantt bars for Nov-Dec 2017]														
5122b	MEP(EB) - (CH2720 to CH2950) E&M Final Fix	12	04-Jan-18	17-Jan-18	-172	[Gantt bars for Nov-Dec 2017]														
5124b	MEP(EB) - (CH2720 to CH2950) TCSS Field equip & cable installation	11	05-Jan-18	17-Jan-18	-189	[Gantt bars for Nov-Dec 2017]														

- ◆ Current Milestone
- ▬ Level of Effort
- ▬ Actual Work
- ▬ Critical Remaining Work
- ▬ Remaining Work
- ▬ Project Baseline
- ▲ Baseline Milestone

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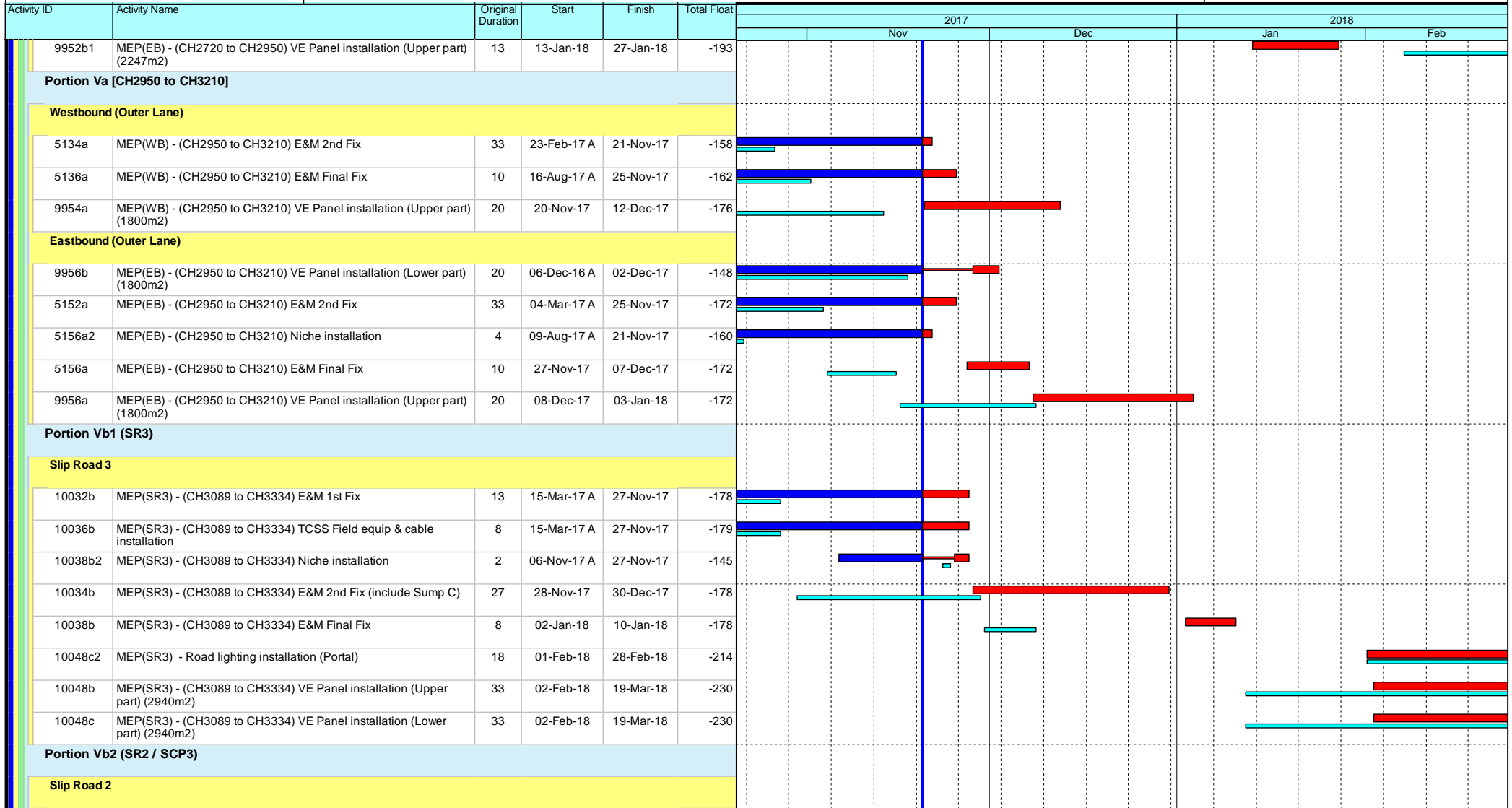
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CWB(CC) - Commissioning Contract

TASK filters: 3 Months_4, 3MRP, No Original Sections, No Summary, Not HL.



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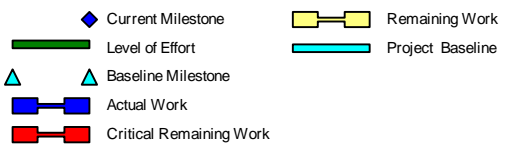
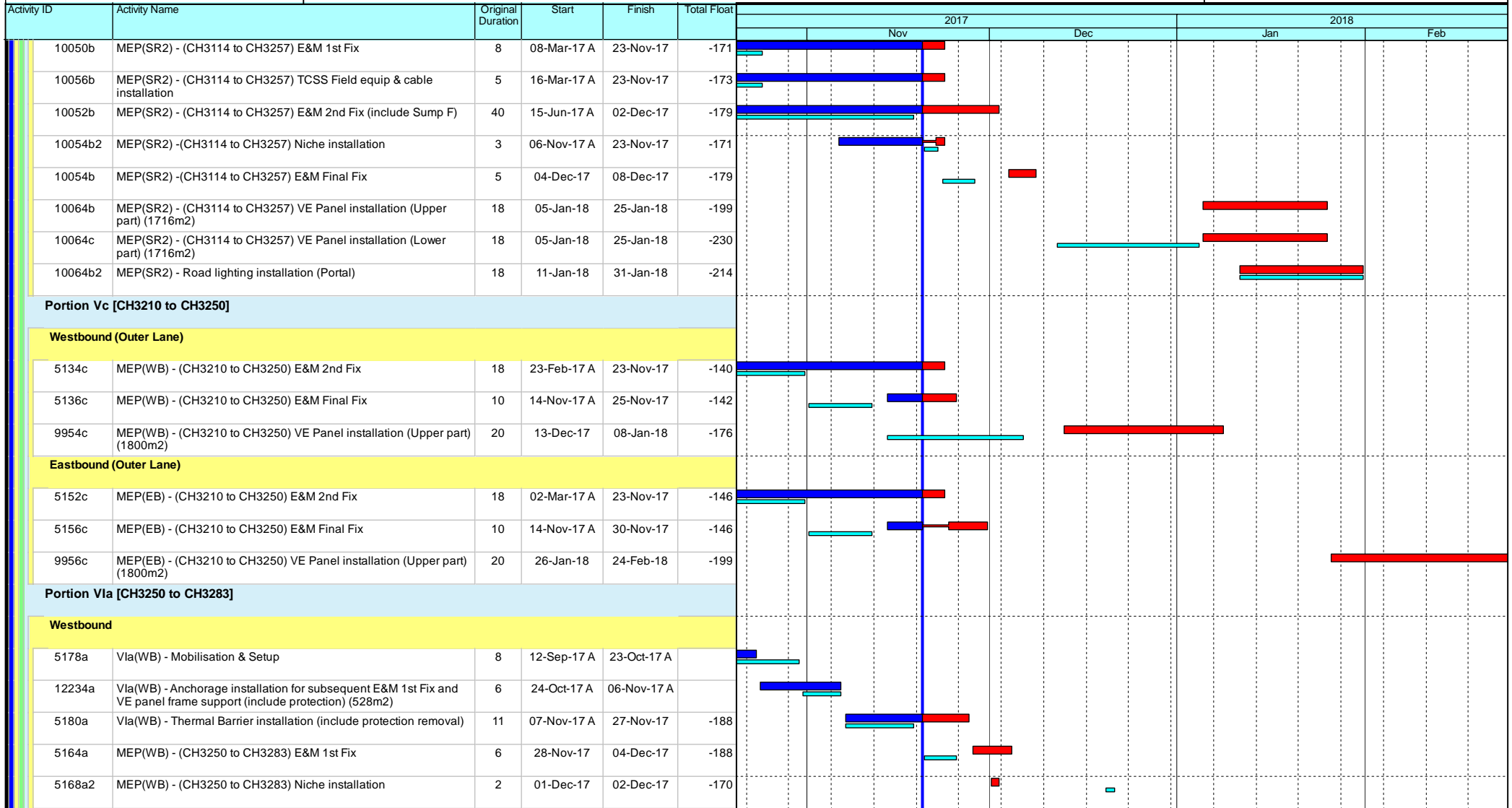
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CWB(CC) - Commissioning Contract

TASK filters: 3 Months_4, 3MRP, No Original Sections, No Summary, Not HL.



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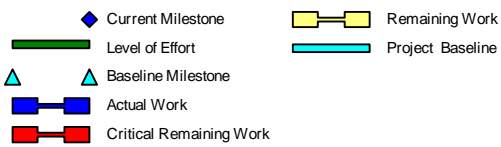
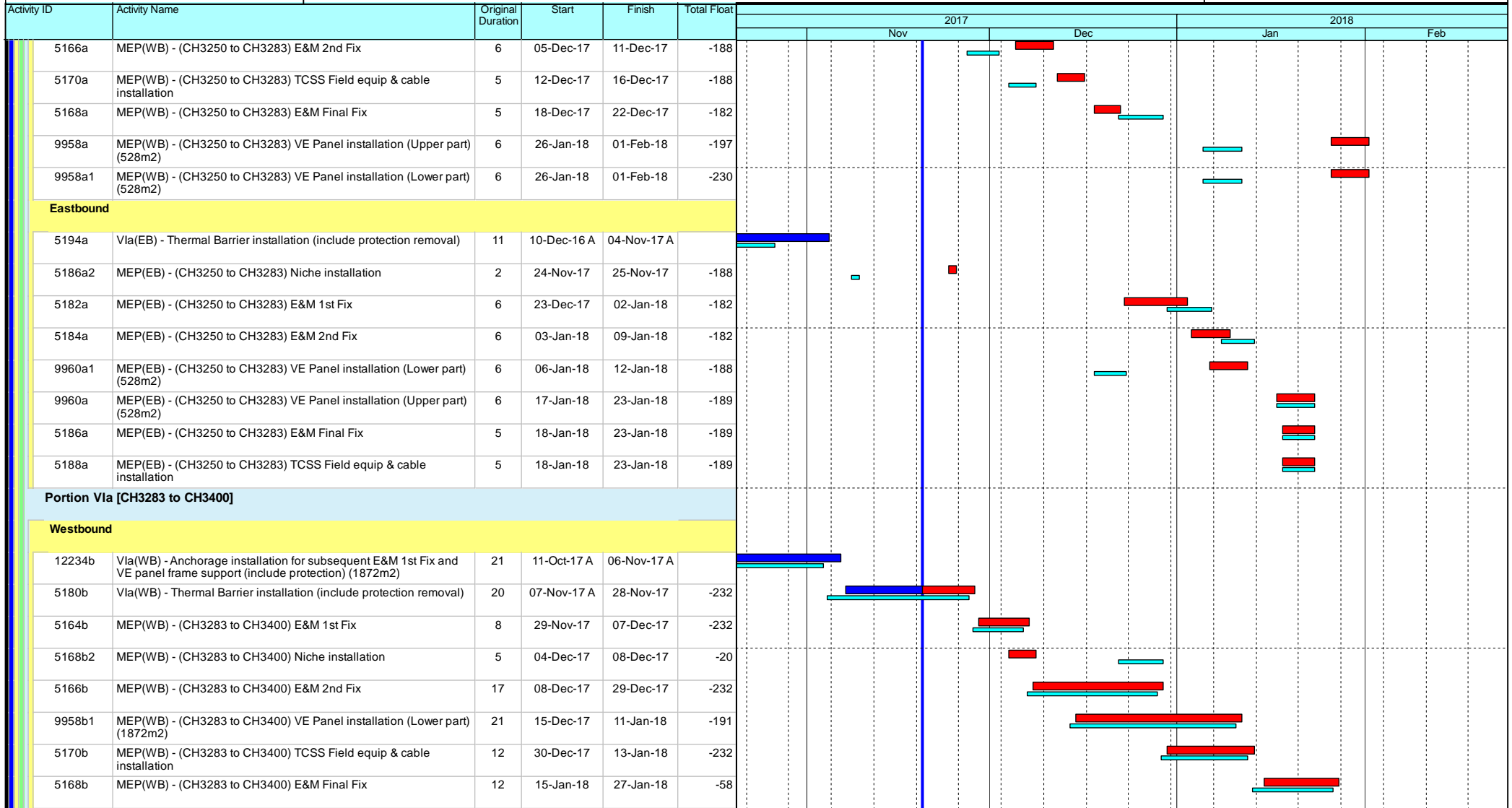
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CWB(CC) - Commissioning Contract

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CWB(CC) - Commissioning Contract

TASK filters: 3 Months_4, 3MRP, No Original Sections, No Summary, Not HL.

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	Gantt Chart																	
						2017						2018											
						Nov	Dec	Jan	Feb	Mar	Apr	Nov	Dec	Jan	Feb	Mar	Apr						
5214b1	MEP(EB) - (CH3400 to CH3428) E&M 1st Fix	6	04-Dec-17	09-Dec-17	-37																		
5216b1	MEP(EB) - (CH3400 to CH3428) E&M 2nd Fix	6	11-Dec-17	16-Dec-17	-37																		
9964b1	MEP(EB) - (CH3400 to CH3428) VE Panel installation (Upper part) (4800m2)	4	18-Jan-18	22-Jan-18	-188																		
9964b1a	MEP(EB) - (CH3400 to CH3428) VE Panel installation (Lower part) (4800m2)	4	18-Jan-18	22-Jan-18	-188																		
5218b1	MEP(EB) - (CH3400 to CH3428) E&M Final Fix	12	12-Feb-18	03-Mar-18	-82																		
Portion VIb [CH3428 to CH3625]																							
Westbound																							
5196b2	MEP(WB) - (CH3428 to CH3625) E&M 1st Fix	12	07-Dec-16 A	09-Dec-17	-246																		
5198b2	MEP(WB) - (CH3428 to CH3625) E&M 2nd Fix	12	15-Mar-17 A	09-Dec-17	-246																		
5202b2	MEP(WB) - (CH3428 to CH3625) TCSS Field equip & cable installation	12	18-Mar-17 A	09-Dec-17	-240																		
5200b2	MEP(WB) - (CH3428 to CH3625) E&M Final Fix	12	11-Dec-17	23-Dec-17	-240																		
9962b2	MEP(WB) - (CH3428 to CH3625) VE Panel installation (Upper part) (2364m2)	27	27-Dec-17	27-Jan-18	-240																		
Eastbound																							
12240b2	Vib(EB) - Anchorage installation for subsequent E&M 1st Fix and VE Panel frame support (include protection) (2364m2)	27	29-Jul-16 A	09-Dec-17	-246																		
5226b2a	Vib(WB) - Masking wall construction (VO) (197m)	25	14-Oct-17 A	25-Nov-17	-246																		
5214b2	MEP(EB) - (CH3428 to CH3625) E&M 1st Fix	12	11-Dec-17	23-Dec-17	-217																		
5216b2	MEP(EB) - (CH3428 to CH3625) E&M 2nd Fix	12	27-Dec-17	10-Jan-18	-217																		
5218b2	MEP(EB) - (CH3428 to CH3625) E&M Final Fix	12	05-Feb-18	24-Feb-18	-238																		
5220b2	MEP(EB) - (CH3428 to CH3625) TCSS Field equip & cable installation	12	05-Feb-18	24-Feb-18	-238																		
Portion VIb [CH3625 to CH3770]																							
Westbound																							
5196b3	MEP(WB) - (CH3625 to CH3770) E&M 1st Fix	12	02-Mar-17 A	22-Nov-17	-231																		
9962b3	MEP(WB) - (CH3625 to CH3770) VE Panel installation (Upper part) (1740m2)	20	20-Nov-17	12-Dec-17	-235																		
5198b3	MEP(WB) - (CH3625 to CH3770) E&M 2nd Fix	12	11-Dec-17	23-Dec-17	-246																		

- ◆ Current Milestone
- ▬ Level of Effort
- ▲ Baseline Milestone
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- ▬ Critical Remaining Work
- ▬ Remaining Work
- ▬ Project Baseline

Leighton Contractors (Asia) Limited Programme Update 45 (November 2017) THREE MONTH ROLLING

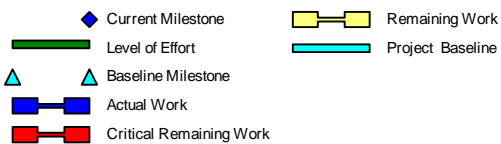
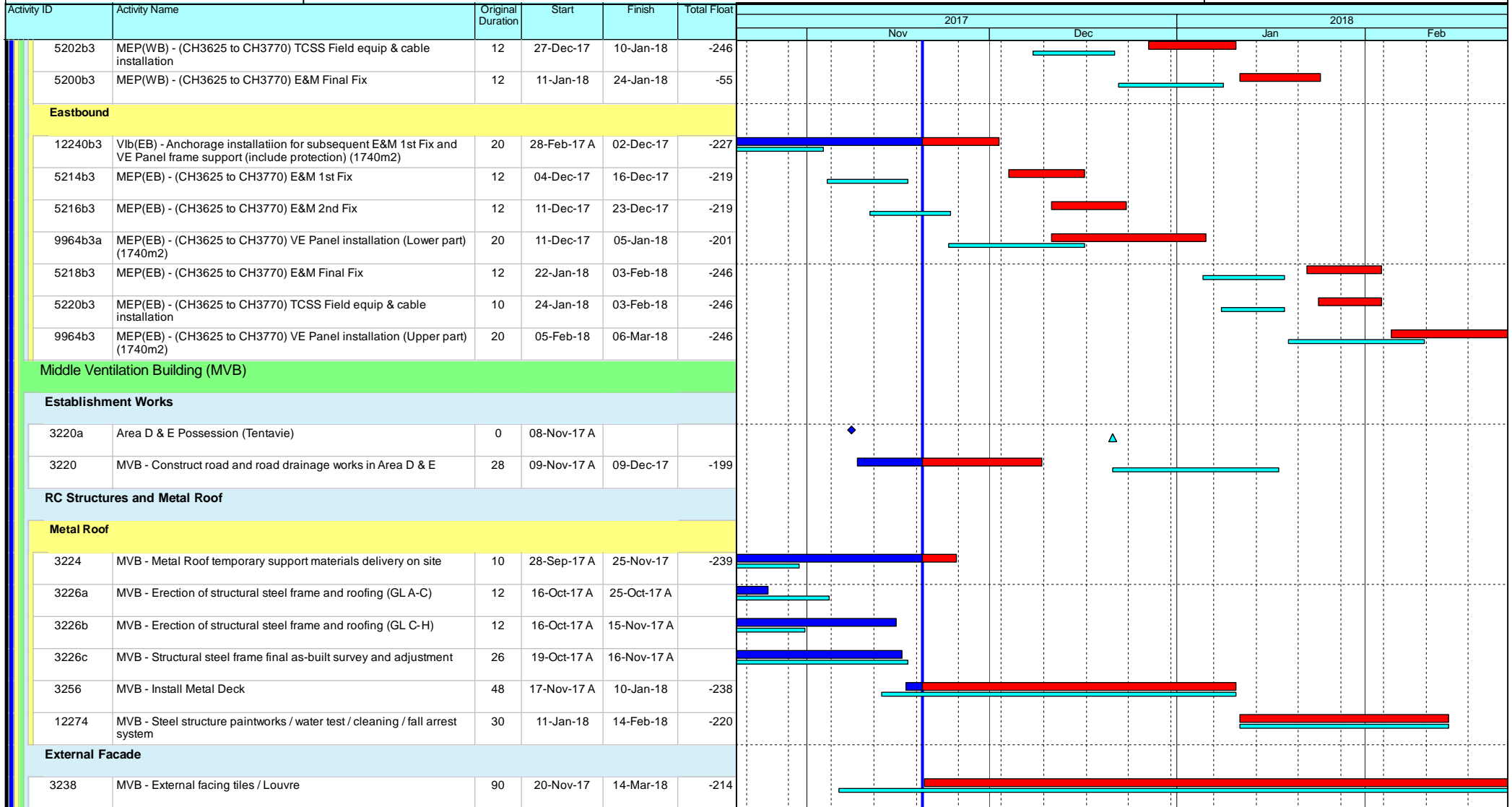
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CWB(CC) - Commissioning Contract

TASK filters: 3 Months_4, 3MRP, No Original Sections, No Summary, Not HL.



Leighton Contractors (Asia) Limited Programme Update 45 (November 2017) THREE MONTH ROLLING

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Data Date: 20-Nov-17

CWB(CC) - Commissioning Contract

TASK filters: 3 Months_4, 3MRP, No Original Sections, No Summary, Not HL.

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2017				2018					
						Nov		Dec		Jan		Feb			
						Actual	Remaining	Actual	Remaining	Actual	Remaining	Actual	Remaining		
MEP Works															
3234	MVB - Waterproofing and roofing	48	03-Oct-17 A	02-Dec-17	-235										
3312	MVB - ABWF (Remaining B1 portion)	10	14-Oct-17 A	27-Oct-17 A											
3236	MVB - Metal works / steel platform / Ladders / Handrails	48	20-Nov-17	17-Jan-18	-172										
3280	MEP(MVB) - Lift Installation	70	20-Nov-17	28-Jan-18	-293										
3248	MEP(MVB) - TCSS Enabling Works (Remaining TCSS installation)	24	04-Dec-17	03-Jan-18	-247										
3252	MEP(MVB) - E&M Final Completion Works; Ready for Statutory Inspections	24	15-Feb-18	21-Mar-18	-220										
E&M Individual System T&C															
3250e	MEP(MVB) - SAT - 11kv cables	6	21-Dec-17	29-Dec-17	-220										
3250j	MEP(MVB) - SAT - 11kV High Voltage Switchgear	6	21-Dec-17	29-Dec-17	-220										
3250k	MEP(MVB) - SAT - Distribution transformer	3	21-Dec-17	23-Dec-17	-217										
3250a	MEP(MVB) - MVAC system	18	27-Dec-17	17-Jan-18	-252										
3250i	MEP(MVB) - SAT - 110V DC battery and charger	6	30-Dec-17	06-Jan-18	-220										
3250d	MEP(MVB) - CCMS SAT	30	04-Jan-18	07-Feb-18	-241										
3250l	MEP(MVB) - SAT - LV Switchboard, MCC, LCC and Generator Switchboard	6	04-Jan-18	10-Jan-18	-223										
3250m	MEP(MVB) - Damper control panel and tunnel motorized damper functional test	36	10-Jan-18	27-Feb-18	-252										
3250b	MEP(MVB) - TVS System Test	12	11-Jan-18	24-Jan-18	-252										
3250g	MEP(MVB) - SAT - UPS	6	11-Jan-18	17-Jan-18	-223										
3250h	MEP(MVB) - SAT - LV Capacitor Bank	6	11-Jan-18	17-Jan-18	-223										
3250c	MEP(MVB) - Lift functional test	6	29-Jan-18	03-Feb-18	-238										
3250f	MEP(MVB) - SAT - Generator System	6	07-Feb-18	13-Feb-18	-246										
Basement 3 - APS Auxiliary Room / APS Plant Area 1 / APS Plant Area 2 (GL D - H)															
12294	APS(MVB) - E&M 1st fixing	24	09-Oct-17 A	09-Nov-17 A											
12344	APS(MVB) - E&M 2nd fixing	24	24-Oct-17 A	21-Nov-17	-131										

- Current Milestone
- Level of Effort
- Baseline Milestone
- Actual Work
- Critical Remaining Work
- Remaining Work
- Project Baseline

Leighton Contractors (Asia) Limited Programme Update 45 (November 2017) THREE MONTH ROLLING

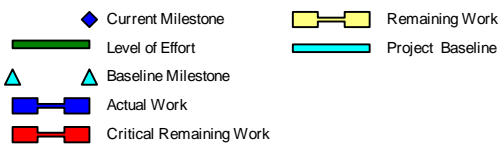
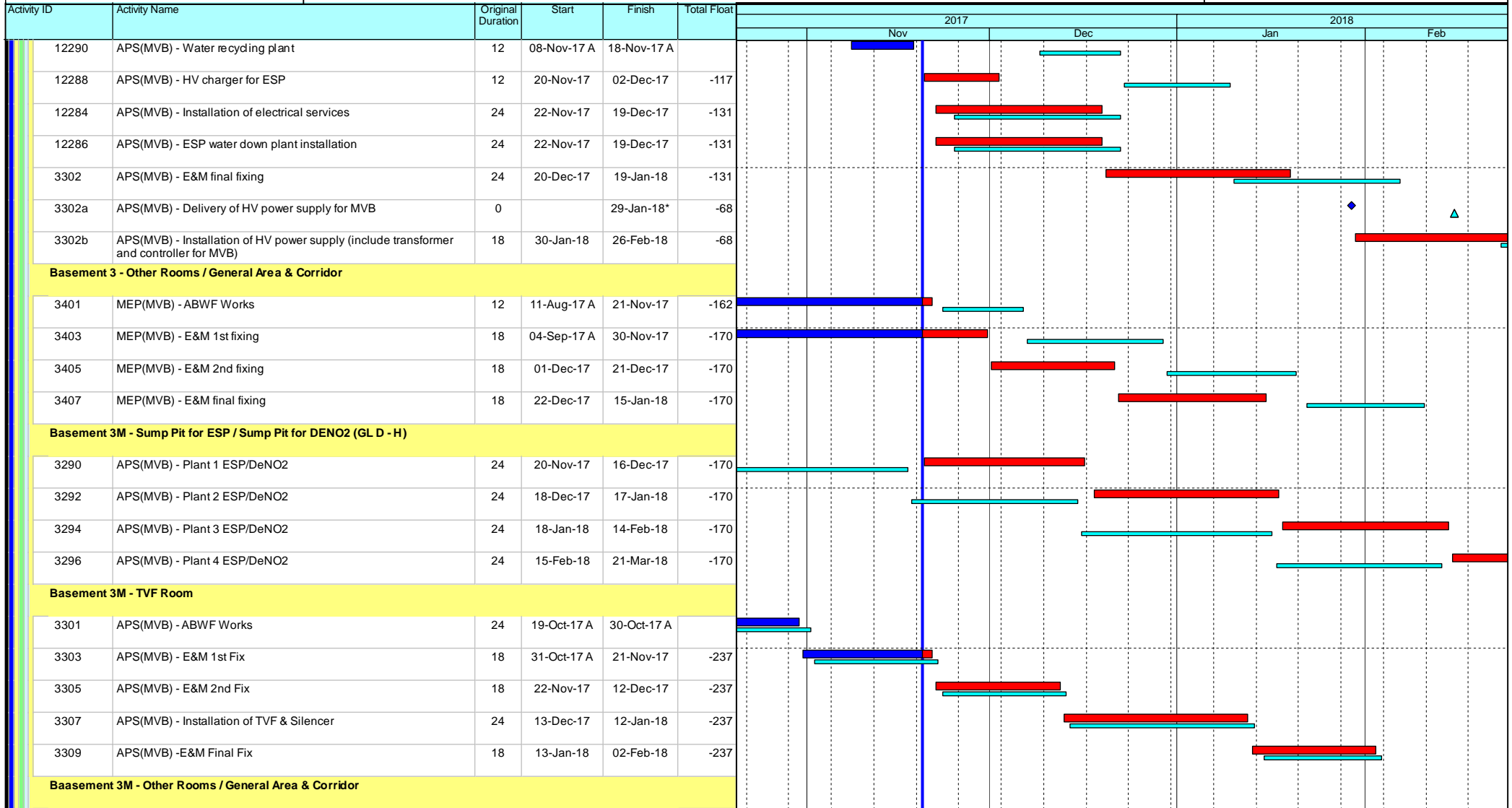
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CWB(CC) - Commissioning Contract

TASK filters: 3 Months_4, 3MRP, No Original Sections, No Summary, Not HL.



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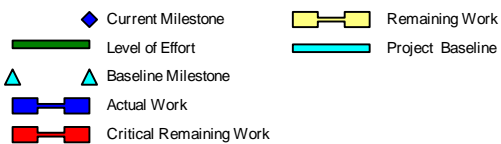
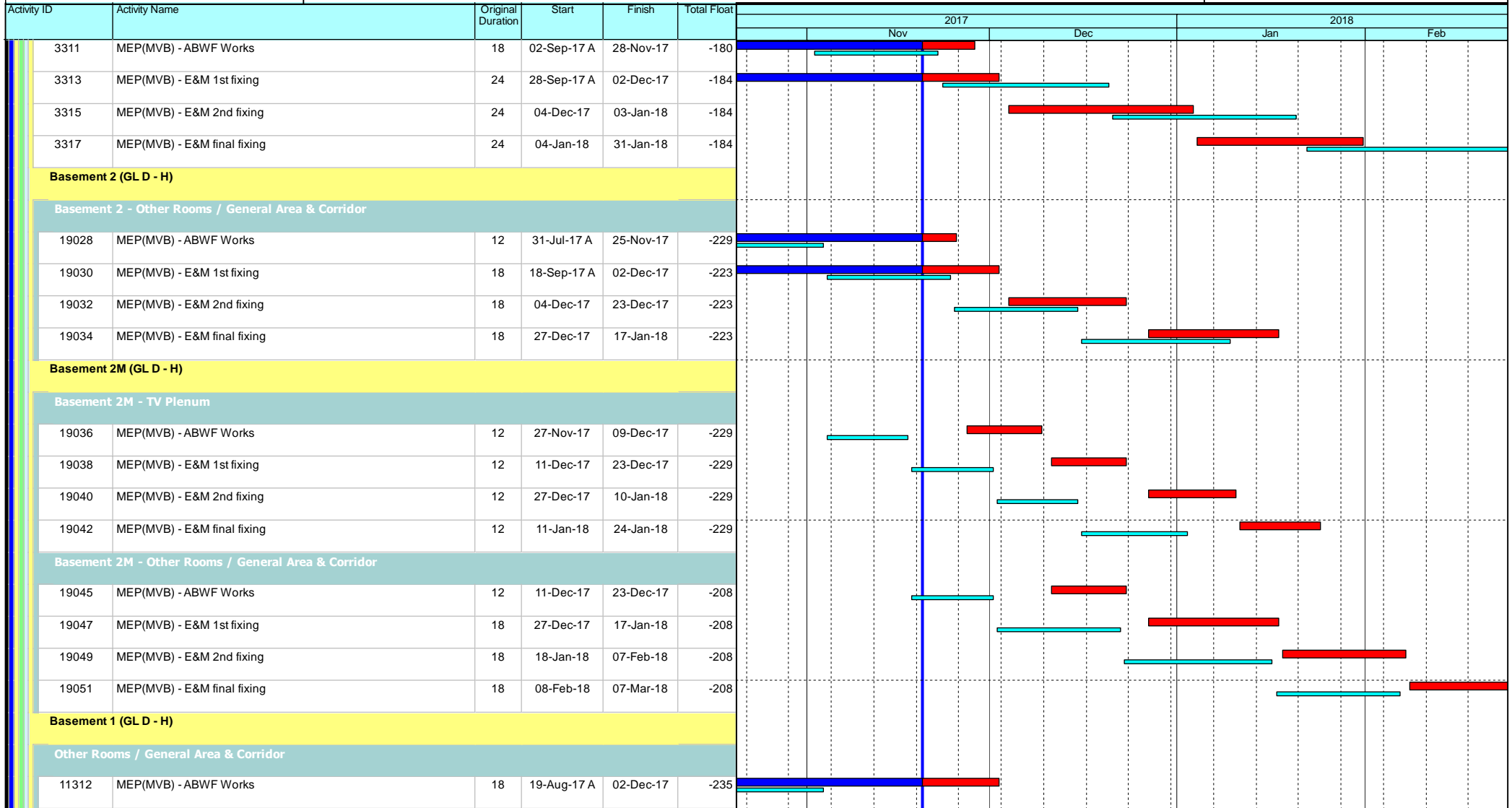
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CWB(CC) - Commissioning Contract

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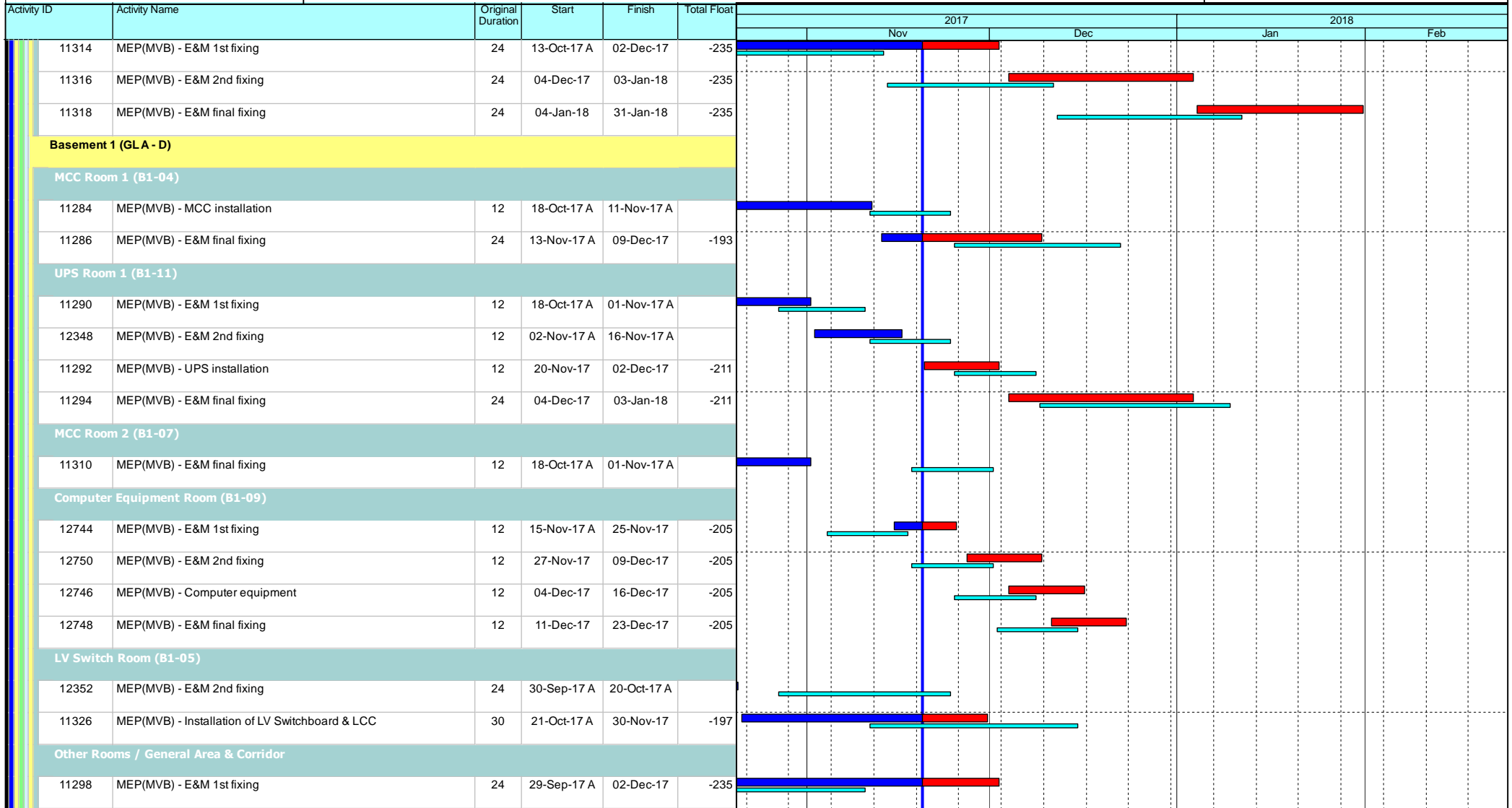
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CWB(CC) - Commissioning Contract

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- Current Milestone
- Level of Effort
- Remaining Work
- Project Baseline
- Baseline Milestone
- Actual Work
- Critical Remaining Work

Leighton Contractors (Asia) Limited Programme Update 45 (November 2017) THREE MONTH ROLLING

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CWB(CC) - Commissioning Contract

TASK filters: 3 Months_4, 3MRP, No Original Sections, No Summary, Not HL.

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2017				2018	
						Nov	Dec	Jan	Feb		
11300	MEP(MVB) - E&M 2nd fixing	24	04-Dec-17	03-Jan-18	-235						
11302	MEP(MVB) - E&M final fixing	24	04-Jan-18	31-Jan-18	-235						
G/F (GL D - H)											
TVF Fan Room 1 (G-01)											
11390	MEP(MVB) - ABWF Works	12	06-Oct-17 A	28-Oct-17 A							
11392	MEP(MVB) - E&M 1st fixing	12	30-Oct-17 A	13-Nov-17 A							
12364	MEP(MVB) - E&M 2nd fixing	12	14-Nov-17 A	27-Nov-17	-212						
11394	MEP(MVB) - Installation of TVF & Silencer	18	28-Nov-17	18-Dec-17	-212						
11396	MEP(MVB) - E&M final fixing	12	19-Dec-17	04-Jan-18	-212						
TVF Fan Room 2 (G-02)											
11398	MEP(MVB) - ABWF Works	12	13-Oct-17 A	04-Nov-17 A							
11400	MEP(MVB) - E&M 1st fixing	12	06-Nov-17 A	18-Nov-17 A							
12366	MEP(MVB) - E&M 2nd fixing	12	20-Nov-17	02-Dec-17	-235						
11402	MEP(MVB) - Installation of TVF & Silencer	24	04-Dec-17	03-Jan-18	-235						
11404	MEP(MVB) - E&M final fixing	24	04-Jan-18	31-Jan-18	-235						
Other Rooms / General Area & Corridor											
11408	MEP(MVB) - E&M 1st fixing	24	18-Oct-17 A	25-Nov-17	-205						
11410	MEP(MVB) - E&M 2nd fixing	24	20-Nov-17	16-Dec-17	-211						
11412	MEP(MVB) - E&M final fixing	24	04-Dec-17	03-Jan-18	-211						
G/F (GL A - D)											
HKE / HV Switch Room 1 (G-07)											
12354	MEP(MVB) - E&M 2nd fixing	12	12-Oct-17 A	08-Nov-17 A							
11340	MEP(MVB) - HKE inspection	6	09-Nov-17 A	24-Nov-17	-252						
11332	MEP(MVB) - Handover HKE/HV Switch Rooms	0	25-Nov-17		-252						

- ◆ Current Milestone
- ▬ Level of Effort
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Leighton Contractors (Asia) Limited Programme Update 45 (November 2017) THREE MONTH ROLLING

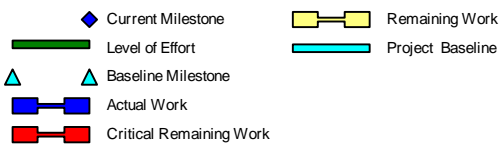
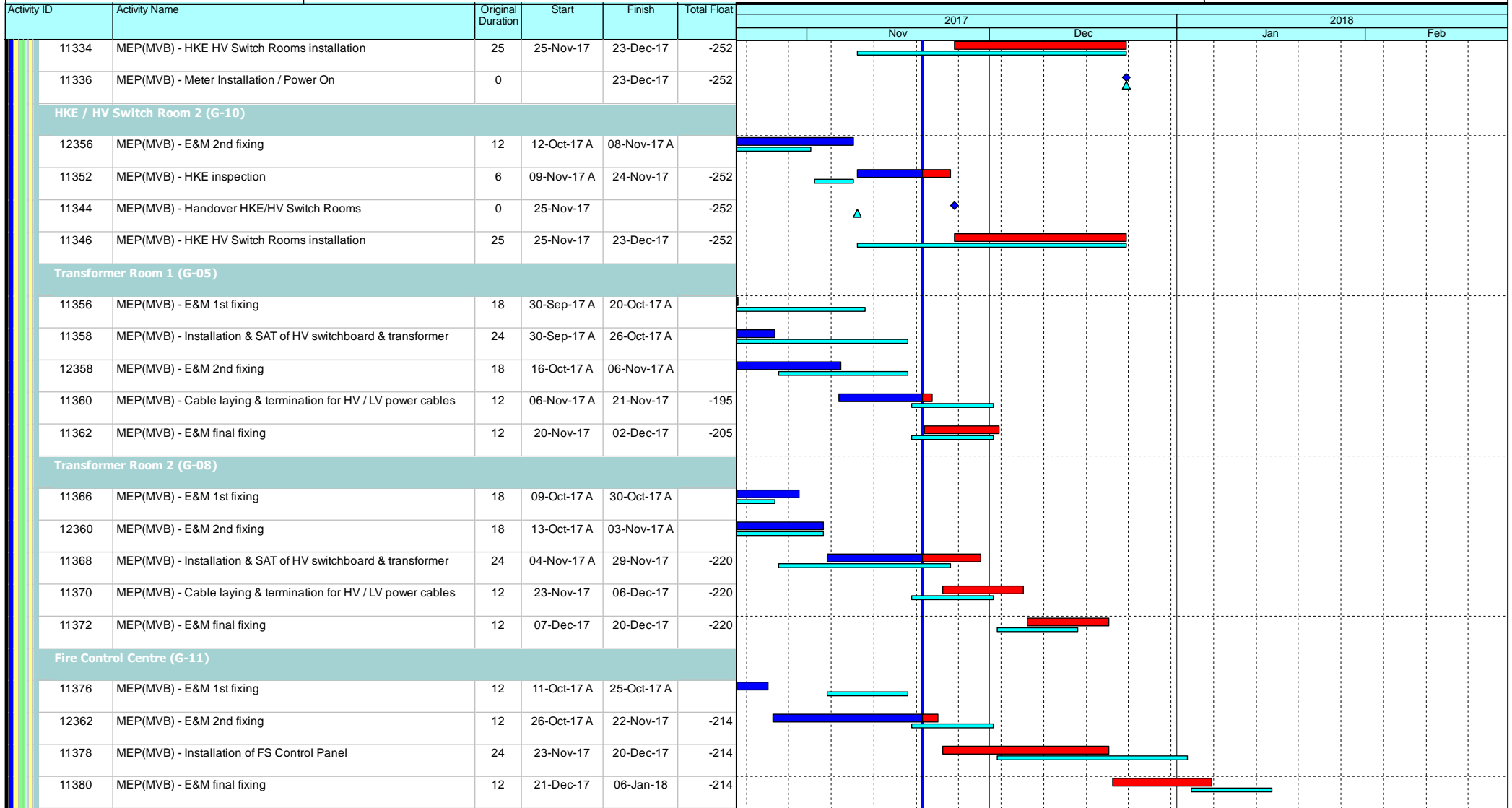
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CWB(CC) - Commissioning Contract

TASK filters: 3 Months_4, 3MRP, No Original Sections, No Summary, Not HL.



Leighton Contractors (Asia) Limited Programme Update 45 (November 2017) THREE MONTH ROLLING

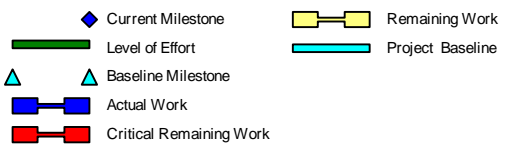
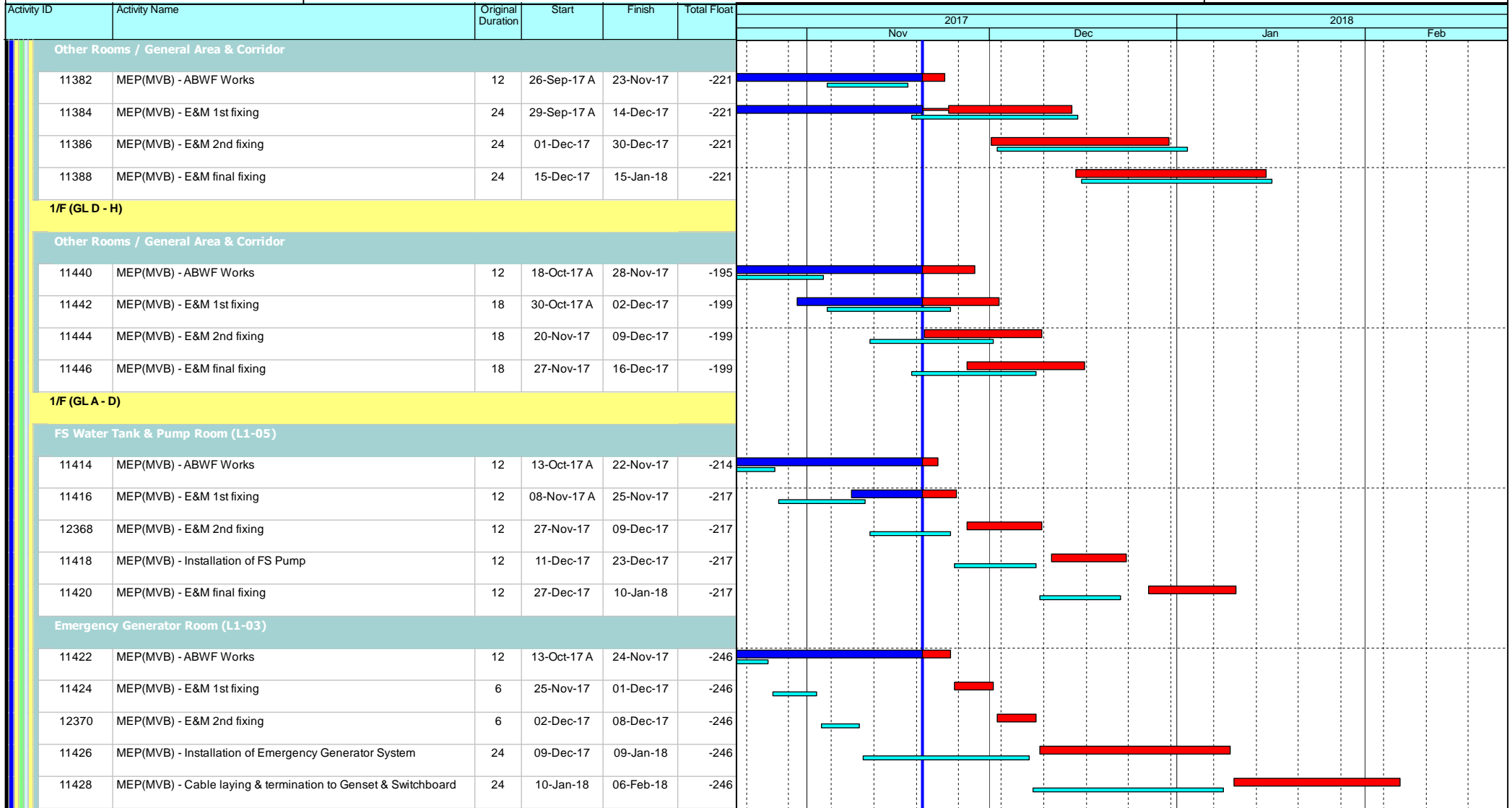
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CWB(CC) - Commissioning Contract

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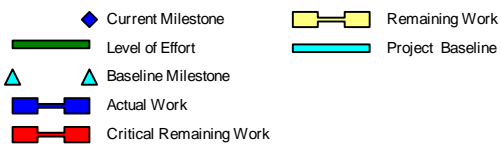
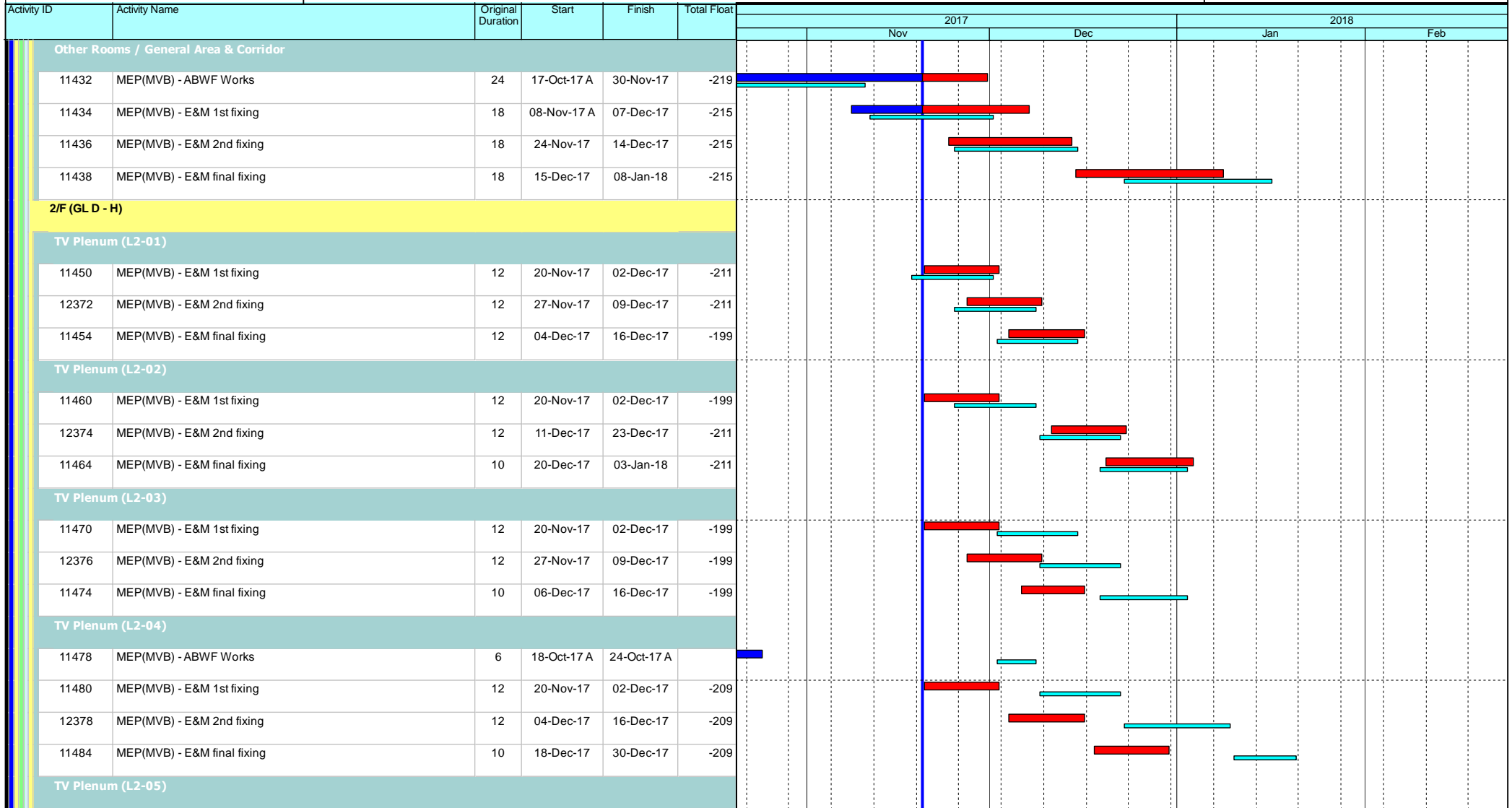
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CWB(CC) - Commissioning Contract

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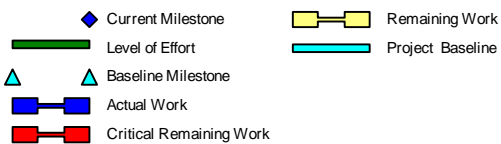
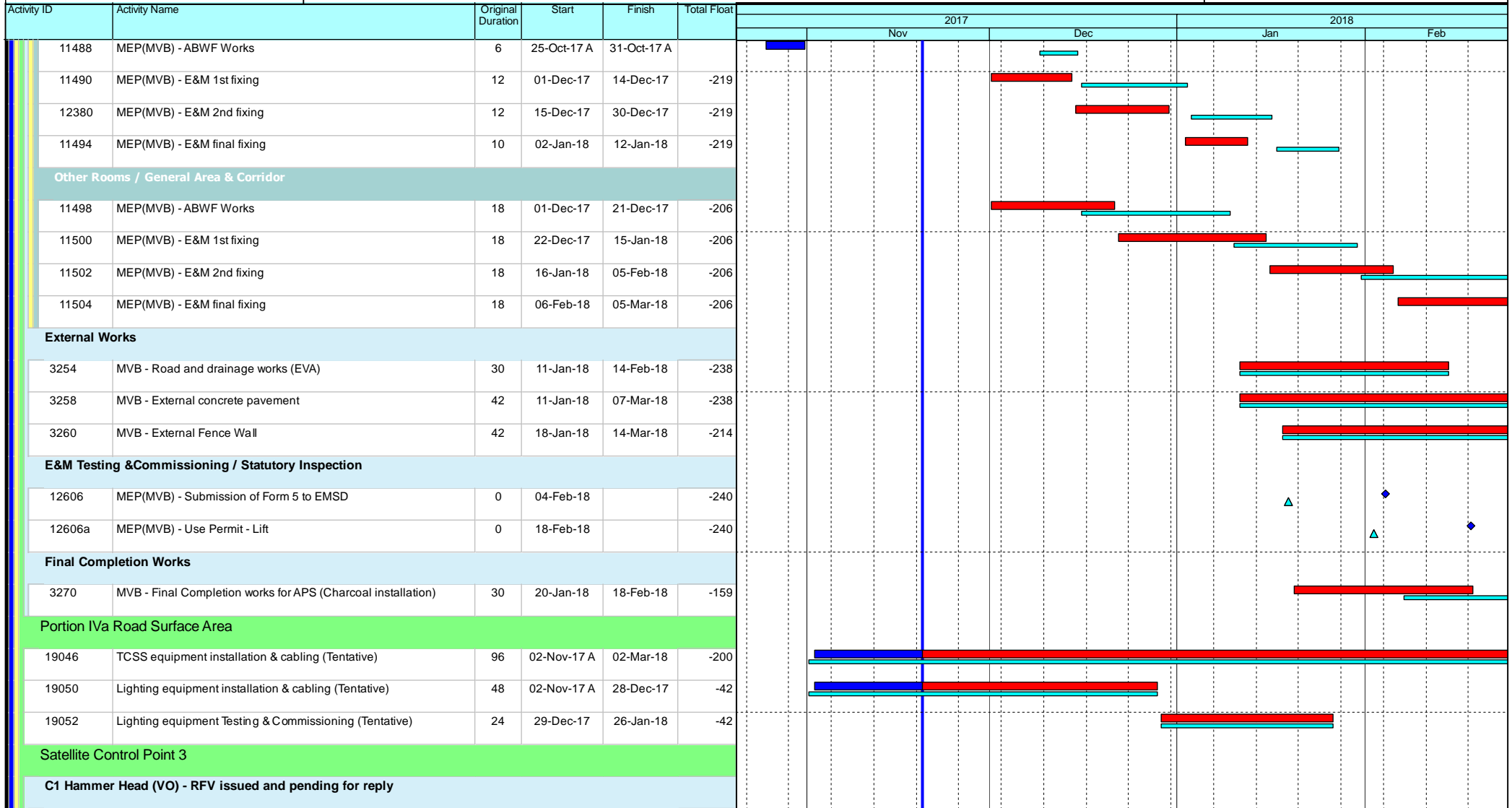
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CWB(CC) - Commissioning Contract

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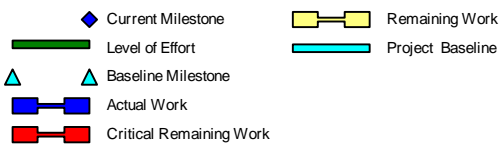
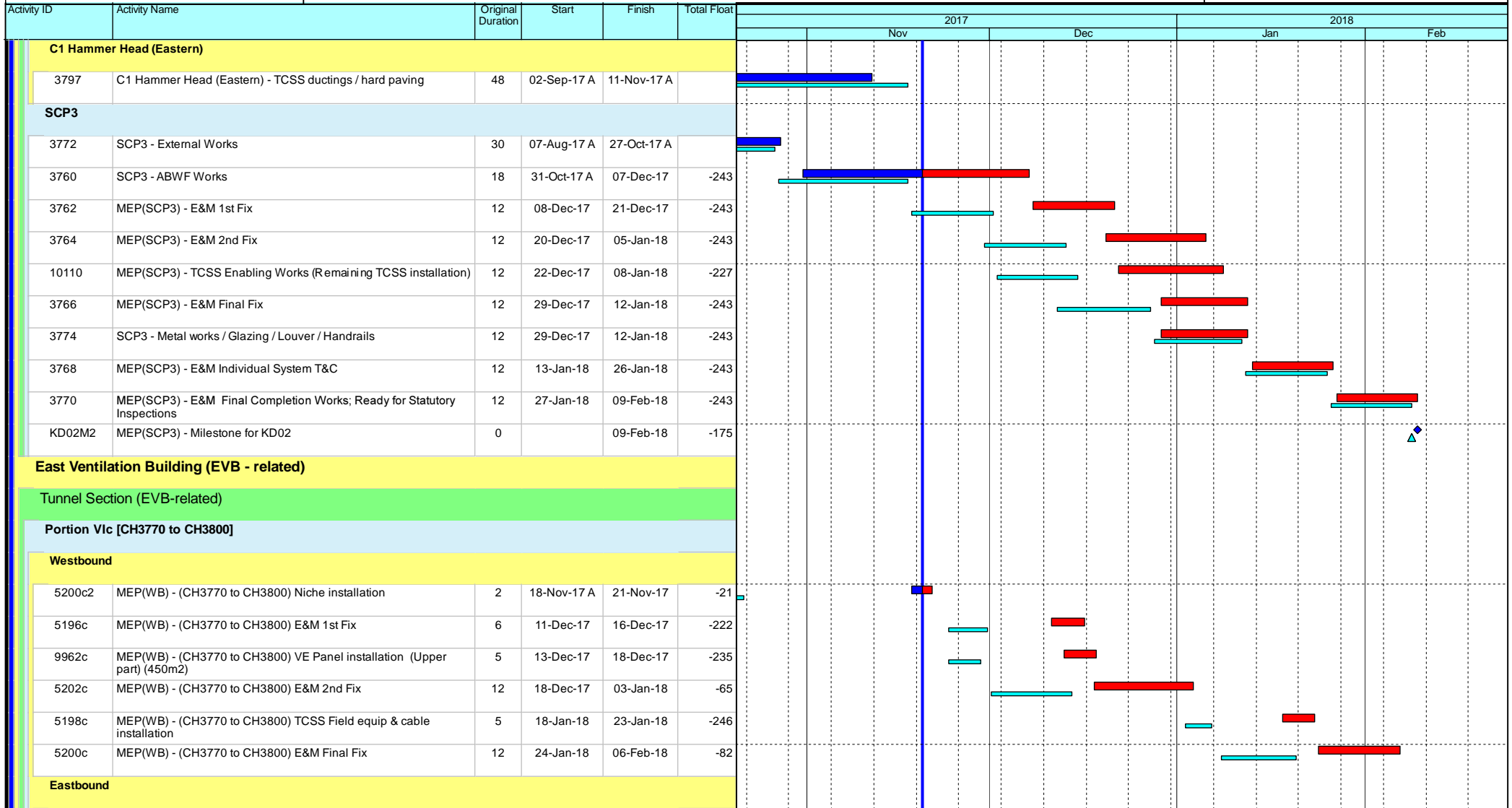
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CWB(CC) - Commissioning Contract

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CWB(CC) - Commissioning Contract

TASK filters: 3 Months_4, 3MRP, No Original Sections, No Summary, Not HL.

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2017				2018	
						Nov		Dec		Jan	Feb
						Actual Work	Critical Remaining Work	Actual Work	Critical Remaining Work	Actual Work	Critical Remaining Work
5214c	MEP(EB) - (CH3770 to CH3800) E&M 1st Fix	24	14-Apr-17 A	16-Dec-17	-189						
5218c2	MEP(EB) - (CH3770 to CH3800) Niche installation	2	18-Nov-17 A	12-Dec-17	-163						
9964c1	MEP(EB) - (CH3770 to CH3800) VE Panel installation (Lower part) (450m2)	5	11-Dec-17	15-Dec-17	-233						
5220c	MEP(EB) - (CH3770 to CH3800) E&M 2nd Fix	12	18-Dec-17	03-Jan-18	-189						
5216c	MEP(EB) - (CH3770 to CH3800) TCSS Field equip & cable installation	5	18-Dec-17	22-Dec-17	-170						
5218c	MEP(EB) - (CH3770 to CH3800) E&M Final Fix	12	04-Jan-18	17-Jan-18	-189						
9964c	MEP(EB) - (CH3770 to CH3800) VE Panel installation (Upper part) (450m2)	5	18-Jan-18	23-Jan-18	-189						
Portion VII [CH3825 to CH4250] - Original Section in DWP Rev.2a											
5238	Possession of Portion VII	0	20-Nov-17		241						
Portion VII [CH3800 to CH3911]											
Westbound											
9966a4a	MEP(WB) - (CH3800 to CH3911) VE Panel installation (Lower part) (1332m2)	15	04-Jul-17 A	27-Nov-17	-128						
5230a4	MEP(WB) - (CH3800 to CH3911) E&M 2nd Fix	48	14-Aug-17 A	25-Nov-17	-142						
5232a6	MEP(WB) - (CH3800 to CH3911) Niche installation	3	11-Sep-17 A	21-Nov-17	-84						
9966a4	MEP(WB) - (CH3800 to CH3911) VE Panel installation (Upper part) (1332m2)	15	27-Nov-17	13-Dec-17	-142						
5232a4	MEP(WB) - (CH3800 to CH3911) E&M Final Fix	16	19-Dec-17	09-Jan-18	-58						
5234a4	MEP(WB) - (CH3800 to CH3911) TCSS Field equip & cable installation	12	23-Dec-17	09-Jan-18	-69						
Eastbound											
5246a4	MEP(EB) - (CH3800 to CH3911) E&M 1st Fix	18	23-Feb-17 A	24-Nov-17	-151						
5248a4	MEP(EB) - (CH3800 to CH3911) E&M 2nd Fix (include Sump II)	12	15-Mar-17 A	01-Dec-17	-157						
5252a4	MEP(EB) - (CH3800 to CH3911) TCSS Field equip & cable installation	12	17-Mar-17 A	01-Dec-17	-157						
5250a6	MEP(EB) - (CH3800 to CH3911) Niche installation	3	11-Sep-17 A	21-Nov-17	-131						
9968a4a	MEP(EB) - (CH3800 to CH3911) VE Panel installation (Lower part) (1332m2)	14	20-Nov-17	05-Dec-17	-135						
5250a4	MEP(EB) - (CH3800 to CH3911) E&M Final Fix	16	21-Nov-17	08-Dec-17	-144						

- Current Milestone
- Level of Effort
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- Actual Work
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- Remaining Work
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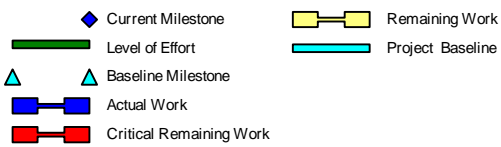
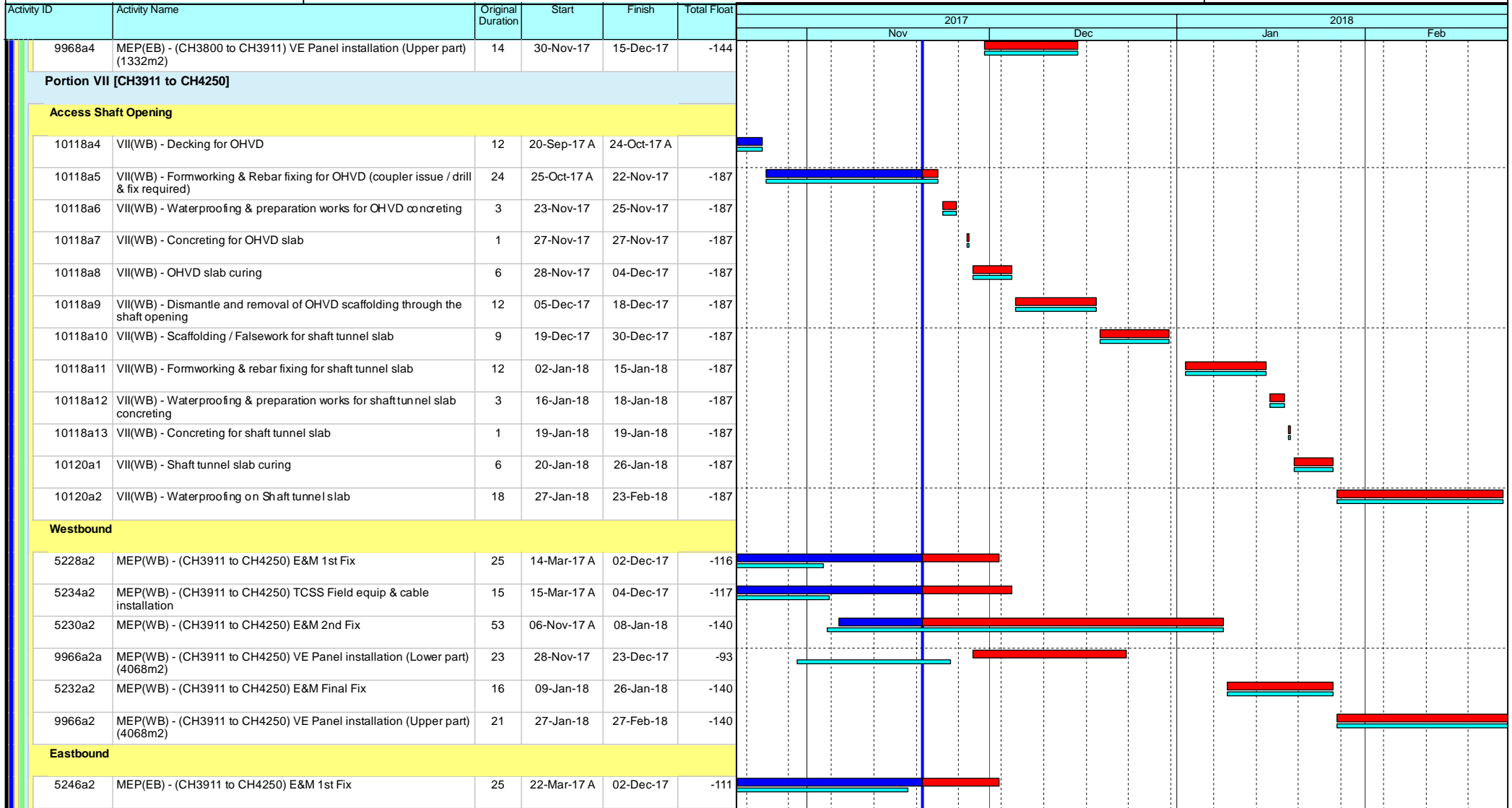
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CWB(CC) - Commissioning Contract

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CWB(CC) - Commissioning Contract

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						Nov		Dec		Jan	Feb
						Actual Work	Critical Remaining Work	Actual Work	Critical Remaining Work	Actual Work	Critical Remaining Work
9968a2a	MEP(EB) - (CH3911 to CH4250) VE Panel installation (Lower part) (4086m2)	23	17-May-17 A	09-Dec-17	-127	[Gantt bars for Nov-Dec 2017]					
5248a2	MEP(EB) - (CH3911 to CH4250) E&M 2nd Fix (include Sump II)	12	27-Nov-17	09-Dec-17	-111	[Gantt bars for Nov-Dec 2017]					
5250a2	MEP(EB) - (CH3911 to CH4250) E&M Final Fix	16	29-Nov-17	16-Dec-17	-111	[Gantt bars for Nov-Dec 2017]					
5252a2	MEP(EB) - (CH3911 to CH4250) TCSS Field equip & cable installation	15	30-Nov-17	16-Dec-17	-111	[Gantt bars for Nov-Dec 2017]					
9968a2	MEP(EB) - (CH3911 to CH4250) VE Panel installation (Upper part) (4086m2)	12	04-Dec-17	16-Dec-17	-111	[Gantt bars for Dec 2017]					
Slip Road 8											
13082a	VII(SR8) - Anchorage installation for subsequent E&M 1st Fix and VE Panel frame support (include protection) (1500m2)	24	09-Jan-17 A	28-Dec-17	-159	[Gantt bars for Nov-Dec 2017]					
13084a1	MEP(SR8) - (CH1000 to CH750) VE Panel installation (Lower part) (550m2)	6	27-Jun-17 A	05-Jan-18	-153	[Gantt bars for Dec 2017]					
13080a1	VII (SR8) - Masking wall construction (VO) (202m)	26	20-Nov-17	19-Dec-17	-159	[Gantt bars for Nov-Dec 2017]					
13068a	MEP(SR8) - (CH1000 to CH750) E&M 1st Fix	12	13-Dec-17	28-Dec-17	-159	[Gantt bars for Dec 2017]					
13070a	MEP(SR8) - (CH1000 to CH750) E&M 2nd Fix (include Sump D)	12	20-Dec-17	05-Jan-18	-159	[Gantt bars for Dec 2017]					
13072a	MEP(SR8) - (CH1000 to CH750) E&M Final Fix	12	29-Dec-17	12-Jan-18	-159	[Gantt bars for Dec 2017]					
13074a	MEP(SR8) - (CH1000 to CH750) TCSS Field equip & cable installation	12	29-Dec-17	12-Jan-18	-159	[Gantt bars for Dec 2017]					
13084a	MEP(SR8) - (CH1000 to CH750) VE Panel installation (Upper part) (550m2)	6	13-Jan-18	19-Jan-18	-159	[Gantt bars for Jan 2018]					
Portion VIIIa [CH4250 to CH4600]											
Westbound											
9970a	MEP(WB) - (CH4250 to CH4600) VE Panel installation (Lower part) (3900m2)	20	20-Sep-17 A	25-Nov-17	-81	[Gantt bars for Sep-Nov 2017]					
5282a	MEP(WB) - (CH4250 to CH4600) Niche installation	8	02-Oct-17 A	18-Nov-17 A		[Gantt bars for Oct-Nov 2017]					
5278	MEP(WB) - (CH4250 to CH4600) E&M 1st Fix	18	14-Oct-17 A	21-Nov-17	-77	[Gantt bars for Oct-Nov 2017]					
5280	MEP(WB) - (CH4250 to CH4600) E&M 2nd Fix	18	20-Nov-17	09-Dec-17	-87	[Gantt bars for Nov-Dec 2017]					
9970	MEP(WB) - (CH4250 to CH4600) VE Panel installation (Upper part) (3900m2)	20	24-Nov-17	16-Dec-17	-87	[Gantt bars for Nov-Dec 2017]					
5282	MEP(WB) - (CH4250 to CH4600) E&M Final Fix	12	04-Dec-17	16-Dec-17	-87	[Gantt bars for Dec 2017]					
5284	MEP(WB) - (CH4250 to CH4600) TCSS Field equip & cable installation	11	05-Dec-17	16-Dec-17	-41	[Gantt bars for Dec 2017]					
Eastbound											

- ◆ Current Milestone
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- ▲ Baseline Milestone

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CWB(CC) - Commissioning Contract

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Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2017				2018	
						Nov		Dec		Jan	Feb
						Actual Work	Critical Remaining Work	Actual Work	Critical Remaining Work	Actual Work	Critical Remaining Work
5276	Villa(EB) - Thermal Barrier installation (include protection removal)	39	02-Jun-17 A	25-Nov-17	-170	[Bar]	[Bar]	[Bar]	[Bar]		
5264a	MEP(EB) - (CH4250 to CH4600) Niche installation	9	07-Oct-17 A	25-Nov-17	-170	[Bar]	[Bar]				
5276a	Villa(EB) - Concrete plinth construction	30	27-Nov-17	03-Jan-18	-135			[Bar]	[Bar]		
9972a	MEP(EB) - (CH4250 to CH4600) VE Panel installation (Lower part) (3900m2)	22	20-Dec-17	17-Jan-18	-135			[Bar]	[Bar]		
5260	MEP(EB) - (CH4250 to CH4600) E&M 1st Fix	19	04-Jan-18	25-Jan-18	-82			[Bar]	[Bar]		
9972	MEP(EB) - (CH4250 to CH4600) VE Panel installation (Upper part) (3900m2)	22	06-Jan-18	31-Jan-18	-135			[Bar]	[Bar]		
5262	MEP(EB) - (CH4250 to CH4600) E&M 2nd Fix	19	10-Jan-18	31-Jan-18	-82			[Bar]	[Bar]		
5264	MEP(EB) - (CH4250 to CH4600) E&M Final Fix	12	24-Jan-18	06-Feb-18	-82			[Bar]	[Bar]		
5266	MEP(EB) - (CH4250 to CH4600) TCSS Field equip & cable installation	11	25-Jan-18	06-Feb-18	-82			[Bar]	[Bar]		
Slip Road 8											
13062	Villa(SR8) - Thermal Barrier installation (include protection removal)	24	07-Sep-17 A	25-Nov-17	-132	[Bar]	[Bar]				
13054a	MEP(SR8) - (CH750 to CH500) Niche installation	11	04-Nov-17 A	23-Nov-17	-188	[Bar]	[Bar]				
13050	MEP(SR8) - (CH750 to CH500) E&M 1st Fix	20	27-Nov-17	19-Dec-17	-105			[Bar]	[Bar]		
13066a	MEP(SR8) - (CH750 to CH500) VE Panel installation (Lower part) (1000m2)	11	27-Nov-17	08-Dec-17	-132			[Bar]	[Bar]		
13052	MEP(SR8) - (CH750 to CH500) E&M 2nd Fix (include Sump D)	24	29-Nov-17	28-Dec-17	-99			[Bar]	[Bar]		
13066	MEP(SR8) - (CH750 to CH500) VE Panel installation (Upper part) (1250m2)	14	18-Dec-17	05-Jan-18	-147			[Bar]	[Bar]		
13056	MEP(SR8) - (CH750 to CH500) TCSS Field equip & cable installation	18	20-Dec-17	12-Jan-18	-105			[Bar]	[Bar]		
13054	MEP(SR8) - (CH750 to CH500) E&M Final Fix	12	29-Dec-17	12-Jan-18	-105			[Bar]	[Bar]		
Portion IXd [CH4600 to CH4860]											
Westbound											
5292	MEP(WB) - (CH4600 to CH4860) E&M 1st Fix	14	05-Jun-17 A	25-Nov-17	-102	[Bar]	[Bar]				
5296a	MEP(WB) - (CH4600 to CH4860) Niche installation	11	21-Aug-17 A	18-Nov-17 A		[Bar]	[Bar]				
5294	MEP(WB) - (CH4600 to CH4860) E&M 2nd Fix	29	12-Oct-17 A	12-Dec-17	-116	[Bar]	[Bar]				
9974a	MEP(WB) - (CH4600 to CH4860) VE Panel installation (Lower part) (3300m2)	34	14-Nov-17 A	23-Dec-17	-105			[Bar]	[Bar]		

- ◆ Current Milestone
- ▬ Level of Effort
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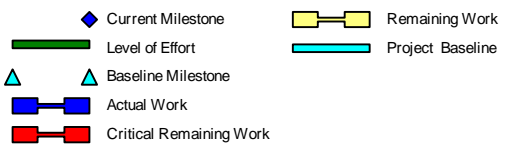
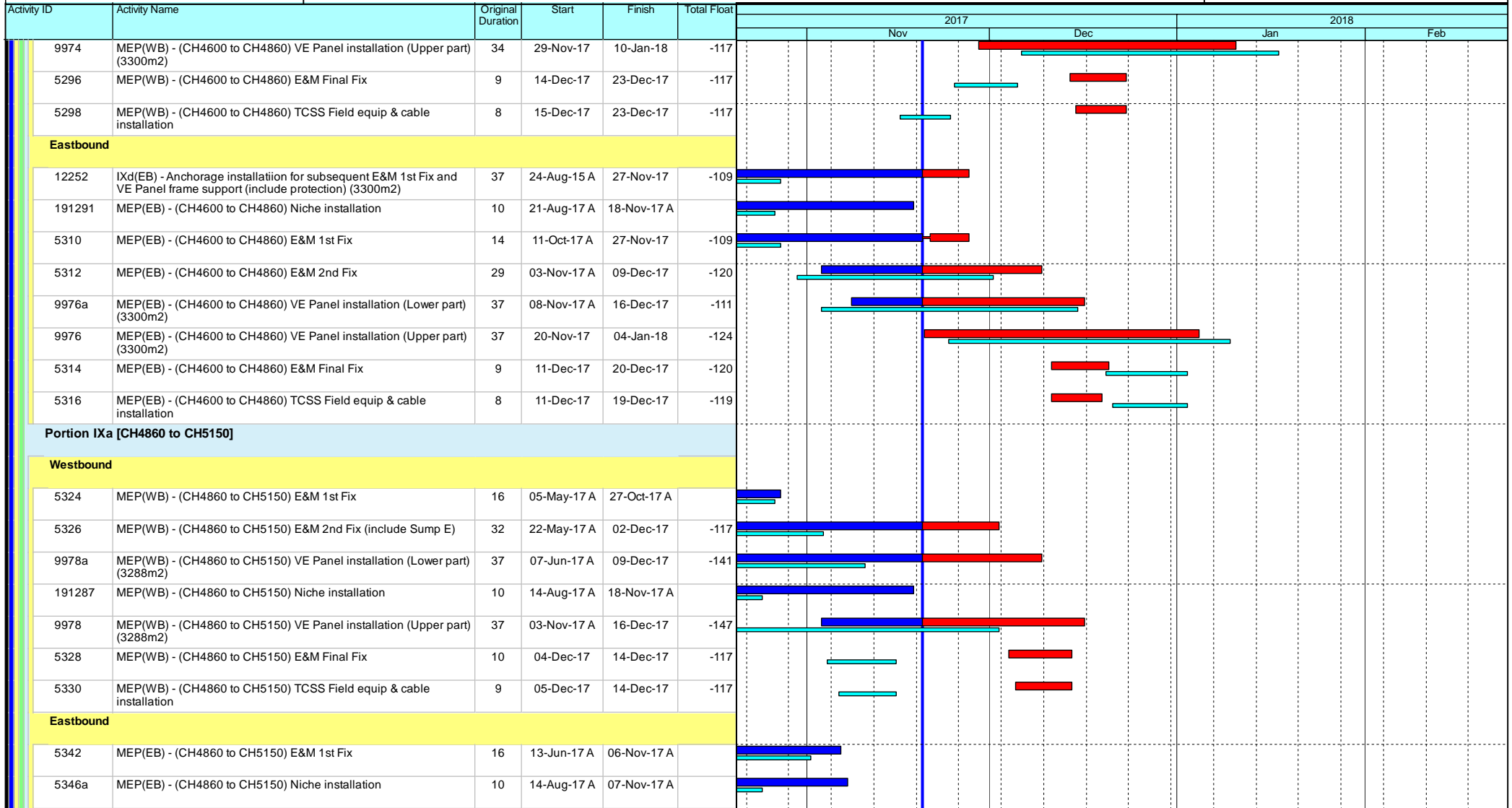
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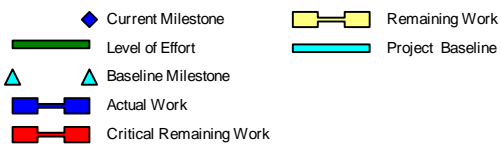
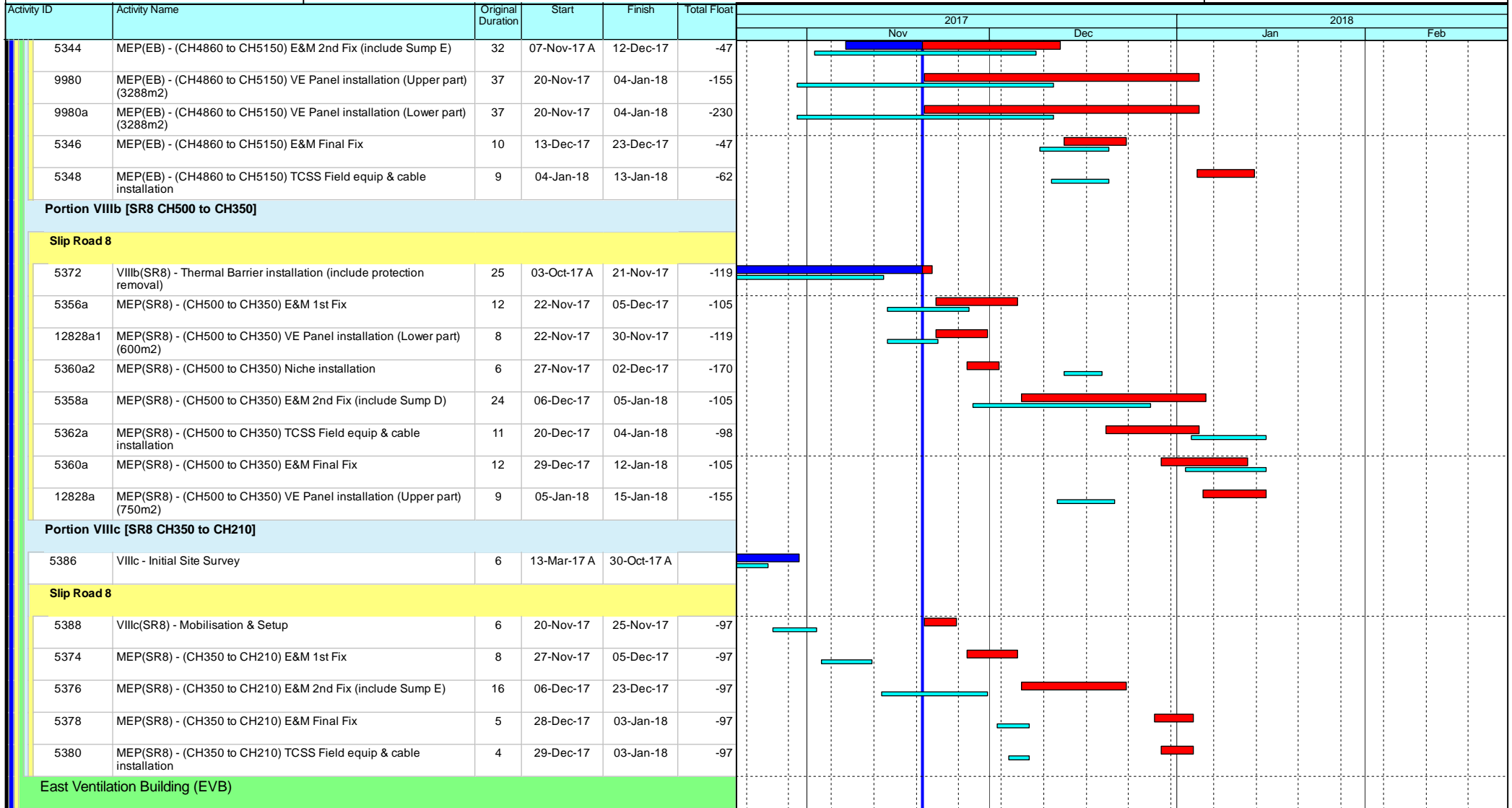
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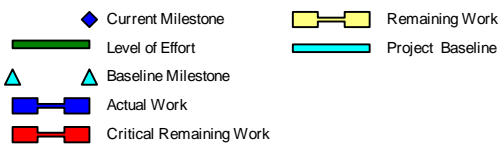
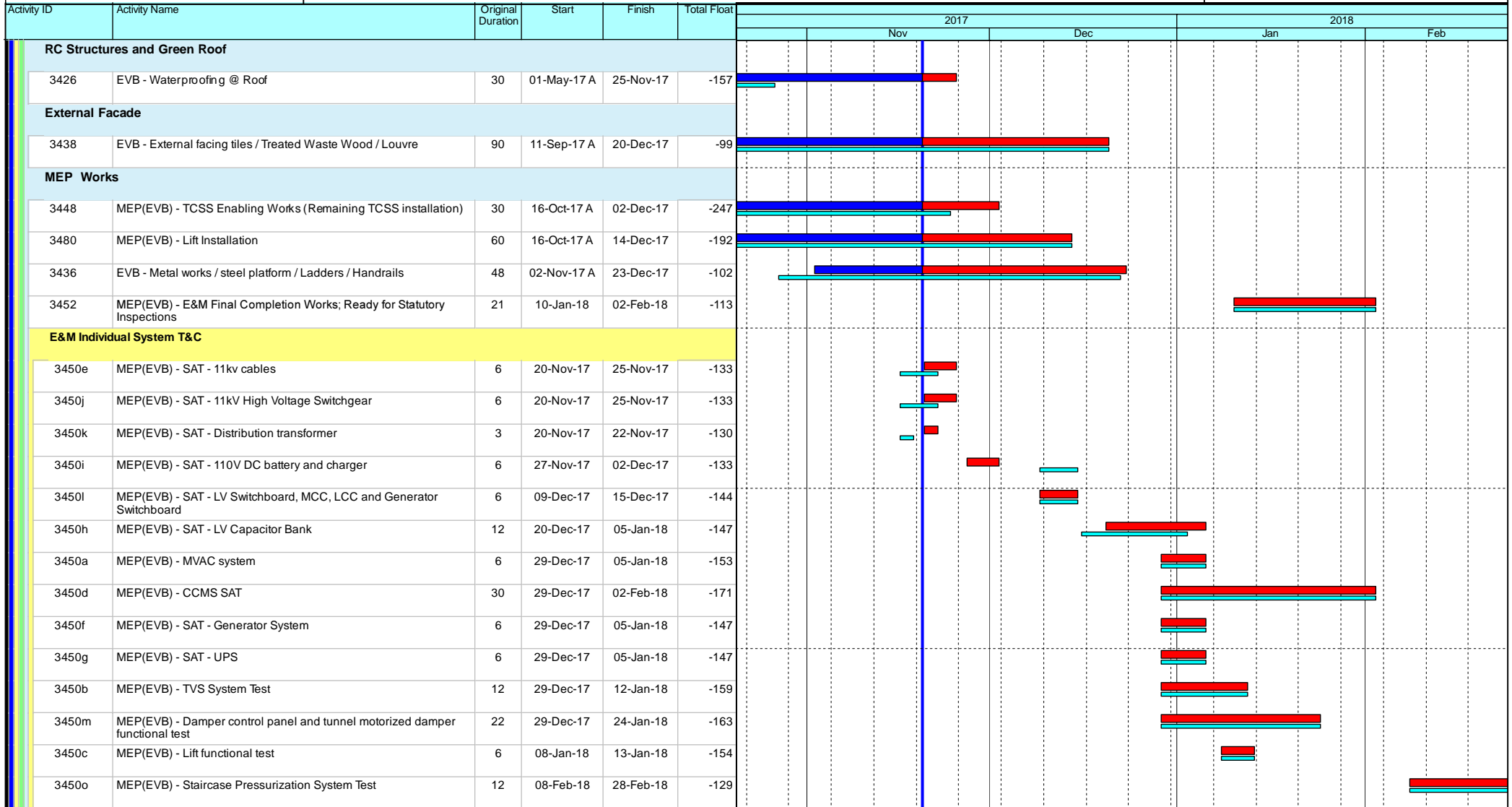
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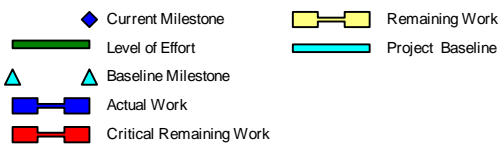
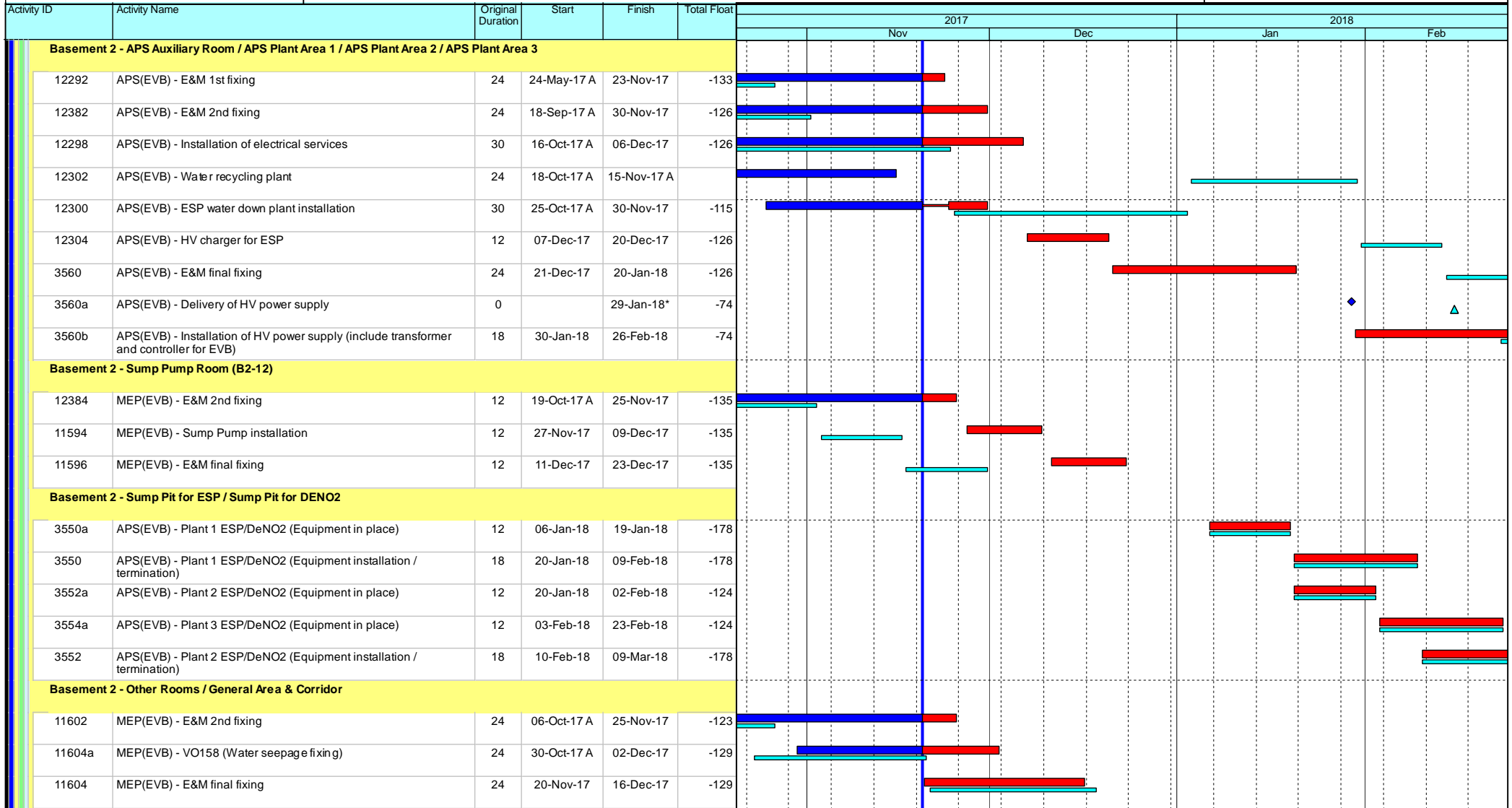
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CWB(CC) - Commissioning Contract

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Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2017				2018	
						Nov		Dec		Jan	Feb
						Actual	Remaining	Actual	Remaining	Actual	Remaining
Basement 1 Mezzanine (GLA - D)											
Electrical Duc Shaft (B1M-05)											
12954	MEP(EVB) - ABWF Works	12	10-Oct-17 A	25-Nov-17	-135						
12956	MEP(EVB) - E&M 1st fixing	12	27-Nov-17	09-Dec-17	-135						
12958	MEP(EVB) - E&M 2nd fixing	12	04-Dec-17	16-Dec-17	-135						
12960	MEP(EVB) - E&M final fixing	12	11-Dec-17	23-Dec-17	-135						
Fireman's Lift Lobby (B1M-06)											
12962	MEP(EVB) - ABWF Works	12	09-Oct-17 A	03-Nov-17 A							
12964	MEP(EVB) - E&M 1st fixing	12	04-Nov-17 A	15-Nov-17 A							
12966	MEP(EVB) - E&M 2nd fixing	12	10-Nov-17 A	25-Nov-17	-135						
12968	MEP(EVB) - E&M final fixing	24	27-Nov-17	23-Dec-17	-135						
Lobby (B1M-07)											
12970	MEP(EVB) - ABWF Works	12	06-Oct-17 A	25-Nov-17	-105						
12972	MEP(EVB) - E&M 1st fixing	12	27-Nov-17	09-Dec-17	-105						
12974	MEP(EVB) - E&M 2nd fixing	12	11-Dec-17	23-Dec-17	-105						
12976	MEP(EVB) - E&M final fixing	24	27-Dec-17	24-Jan-18	-105						
Electrical Duct (B1M-08)											
12978	MEP(EVB) - ABWF Works	12	16-Oct-17 A	03-Nov-17 A							
12980	MEP(EVB) - E&M 1st fixing	12	04-Nov-17 A	16-Nov-17 A							
12982	MEP(EVB) - E&M 2nd fixing	12	17-Nov-17 A	30-Nov-17	-127						
12984	MEP(EVB) - E&M final fixing	12	01-Dec-17	14-Dec-17	-127						
Basement 1 Mezzanine (GL D - L)											
Plenum (B1M-03)											
12988	MEP(EVB) - E&M 1st fixing	12	05-Oct-17 A	20-Oct-17 A							

- Current Milestone
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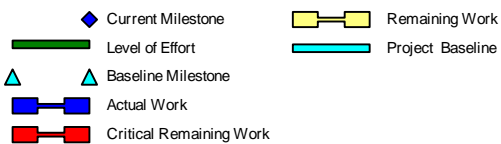
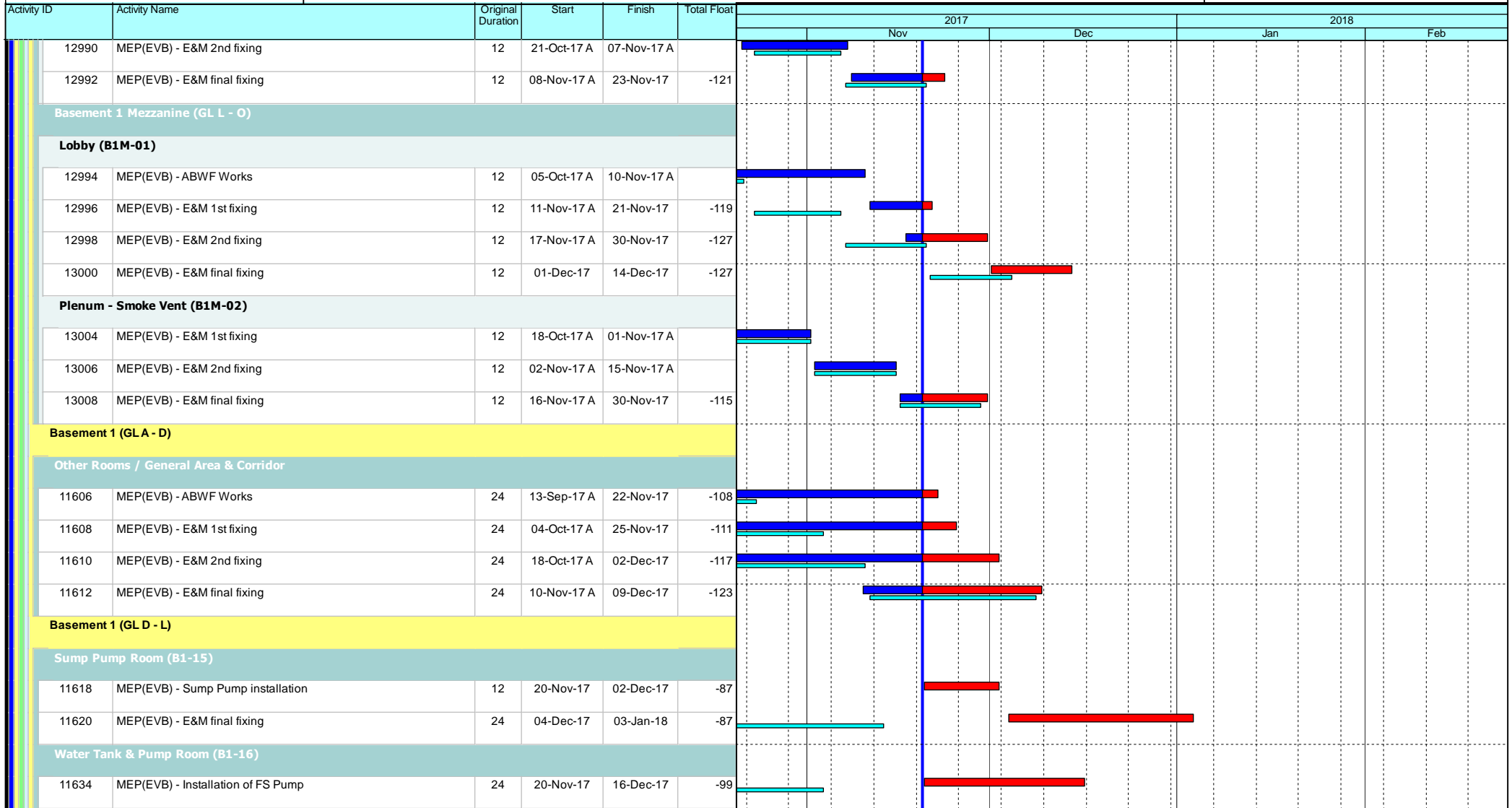
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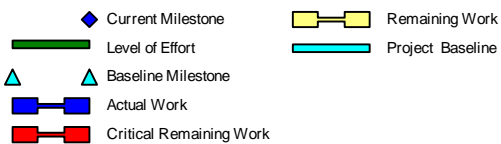
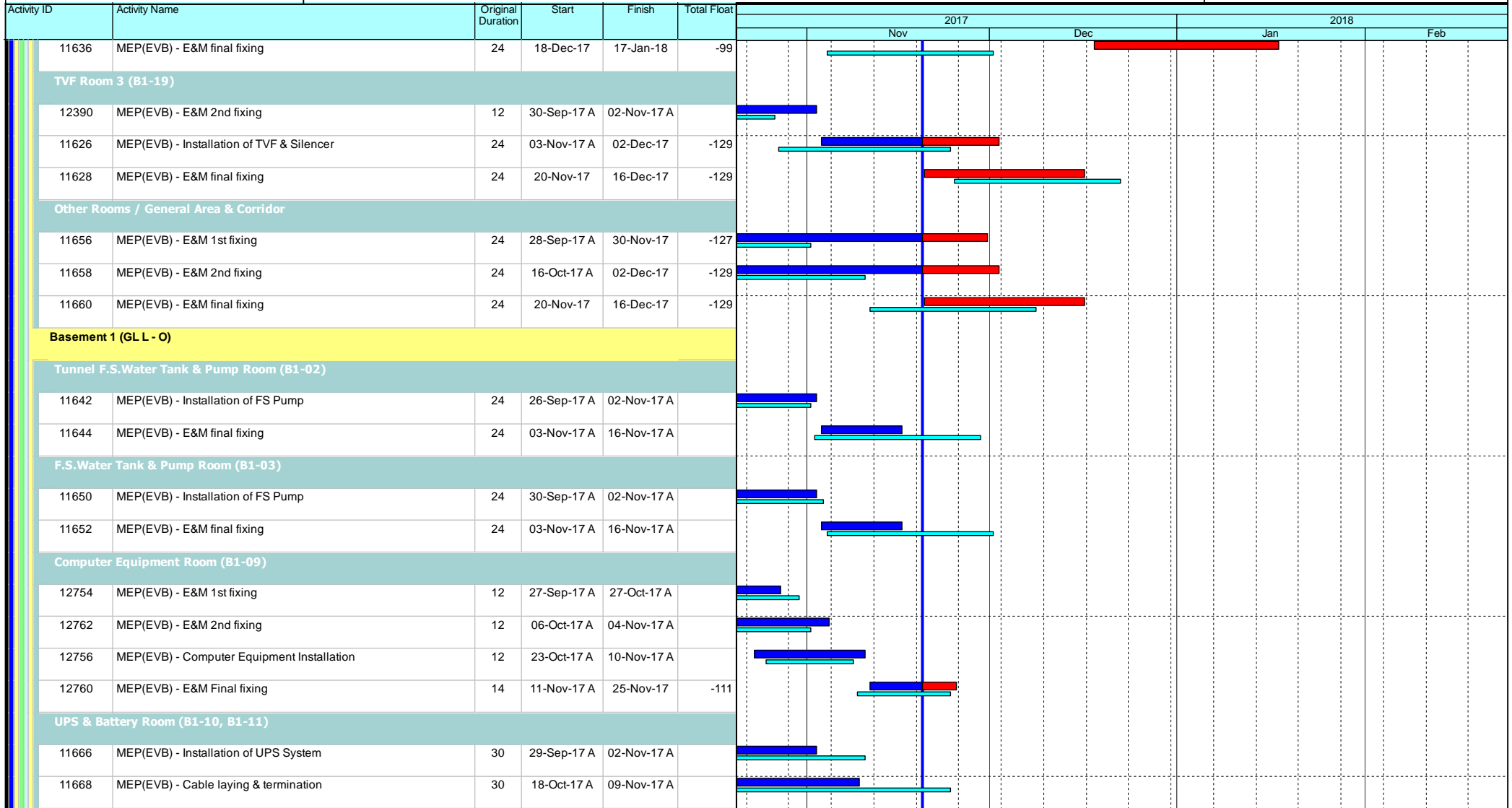
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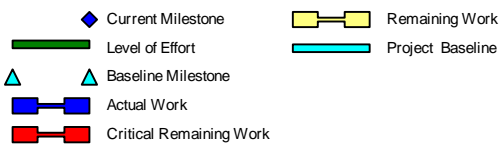
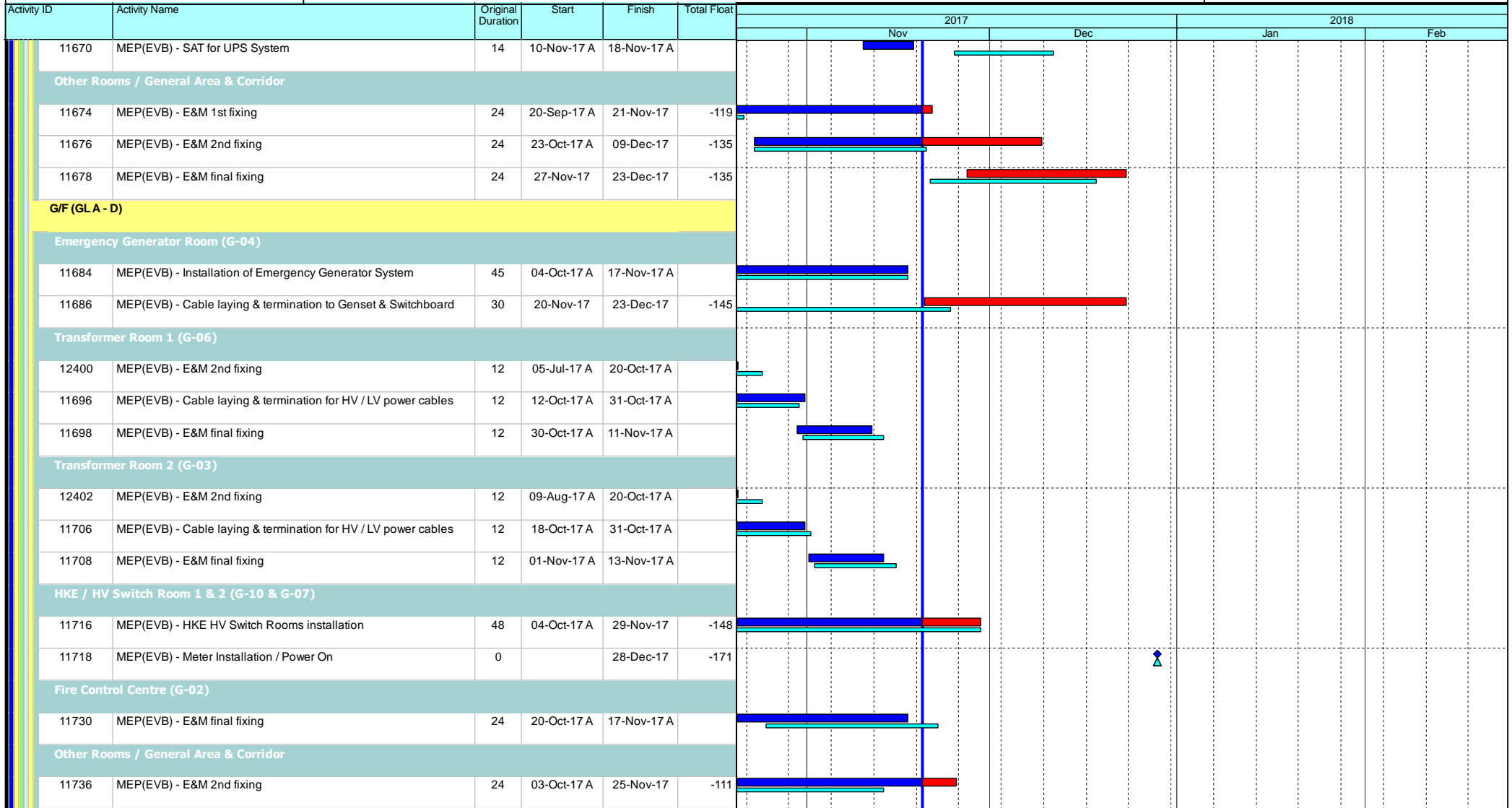
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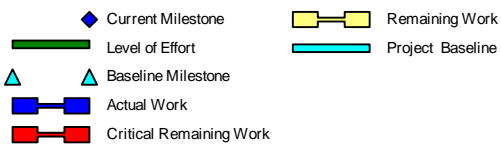
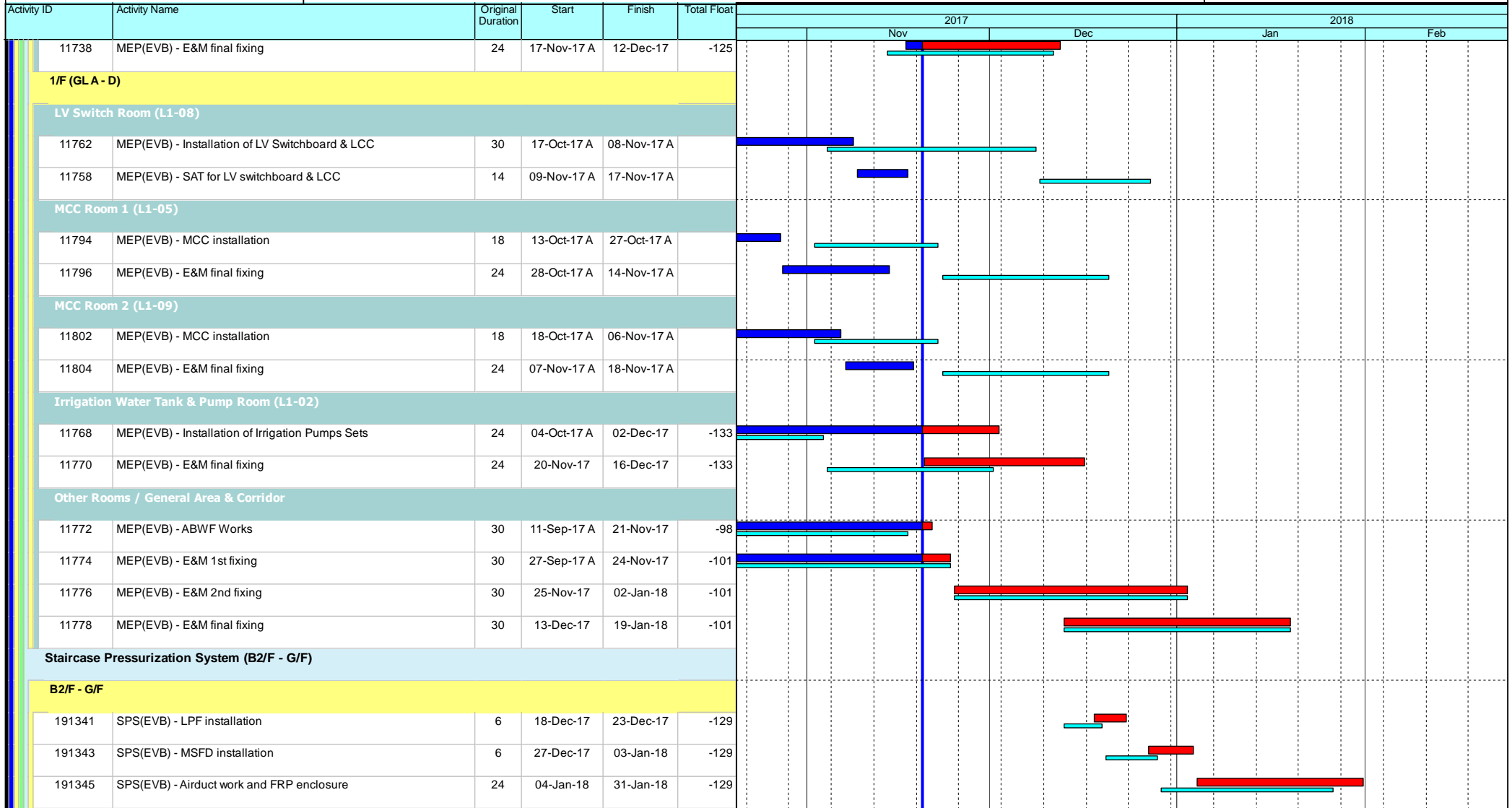
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CWB(CC) - Commissioning Contract

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Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	Gantt Chart																
						2017						2018										
						Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct					
191335	SPS(EVB) - LMCP installation	5	06-Jan-18	11-Jan-18	-129																	
191337	SPS(EVB) - Power termination for LMCP	5	12-Jan-18	17-Jan-18	-129																	
191339	SPS(EVB) - Conduit and wiring works for SPS control	18	18-Jan-18	07-Feb-18	-129																	
191347	SPS(EVB) - SPS control panel installation	5	18-Jan-18	23-Jan-18	-116																	
External Works																						
191365	EVB - Cable trench for HEC cable laying (U/U obstruction delaying our works)	30	25-Aug-17 A	30-Oct-17 A																		
191367	EVB - Cable ducting for HEC cable laying (Depends on access from C19)	12	16-Oct-17 A	31-Oct-17 A																		
191373b	EVB - Cable ducts / pits construction at EVB external area	39	16-Oct-17 A	17-Nov-17 A																		
191369	EVB - HKE cable laying	36	13-Nov-17 A	12-Dec-17	-171																	
3454	EVB - Road and drainage works (EVA)	24	16-Nov-17 A	09-Dec-17	-123																	
191373c	EVB - Cable laying at EVB external area (connection to tunnel MCC)	26	16-Nov-17 A	06-Dec-17	-136																	
3454a	EVB - Planter walls	54	23-Nov-17	27-Jan-18	-108																	
3458	EVB - External concrete pavement	24	11-Dec-17	10-Jan-18	-123																	
191371	EVB - Cable trench backfill	12	13-Dec-17	28-Dec-17	-171																	
3462	EVB - Final completion works (include CCMS interface)	30	11-Jan-18	14-Feb-18	-123																	
E&M Testing & Commissioning / Statutory Inspection																						
3464	MEP(EVB) - E&M System Integrated Testing and Commissioning	36	29-Dec-17	02-Feb-18	-165																	
3464a	MEP(EVB) - TVS & CCMS System Integrated Testing and Commissioning	36	29-Dec-17	02-Feb-18	-165																	
3464b	MEP(EVB) - Tunnel Lighting & CCMS System Integrated Testing and Commissioning	24	29-Dec-17	21-Jan-18	-153																	
3464c	MEP(EVB) - Fire Services & CCMS System Integrated Testing and Commissioning	36	29-Dec-17	02-Feb-18	-165																	
12608	MEP(EVB) - Submission of Form 5 to EMSD	0	14-Jan-18		-133																	
3464a2	MEP(EVB) - TVS E-mode Test (Stage 3)	35	25-Jan-18	28-Feb-18	-165																	
12608a	MEP(EVB) - Use Permit - Lift	0	28-Jan-18		-133																	
12634	MEP(EVB) - Submission of WWO46 (Part IV) to WSD	0	08-Feb-18		-170																	

-  Current Milestone
-  Remaining Work
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-  Project Baseline
-  Baseline Milestone
-  Actual Work
-  Critical Remaining Work

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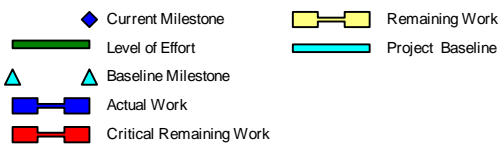
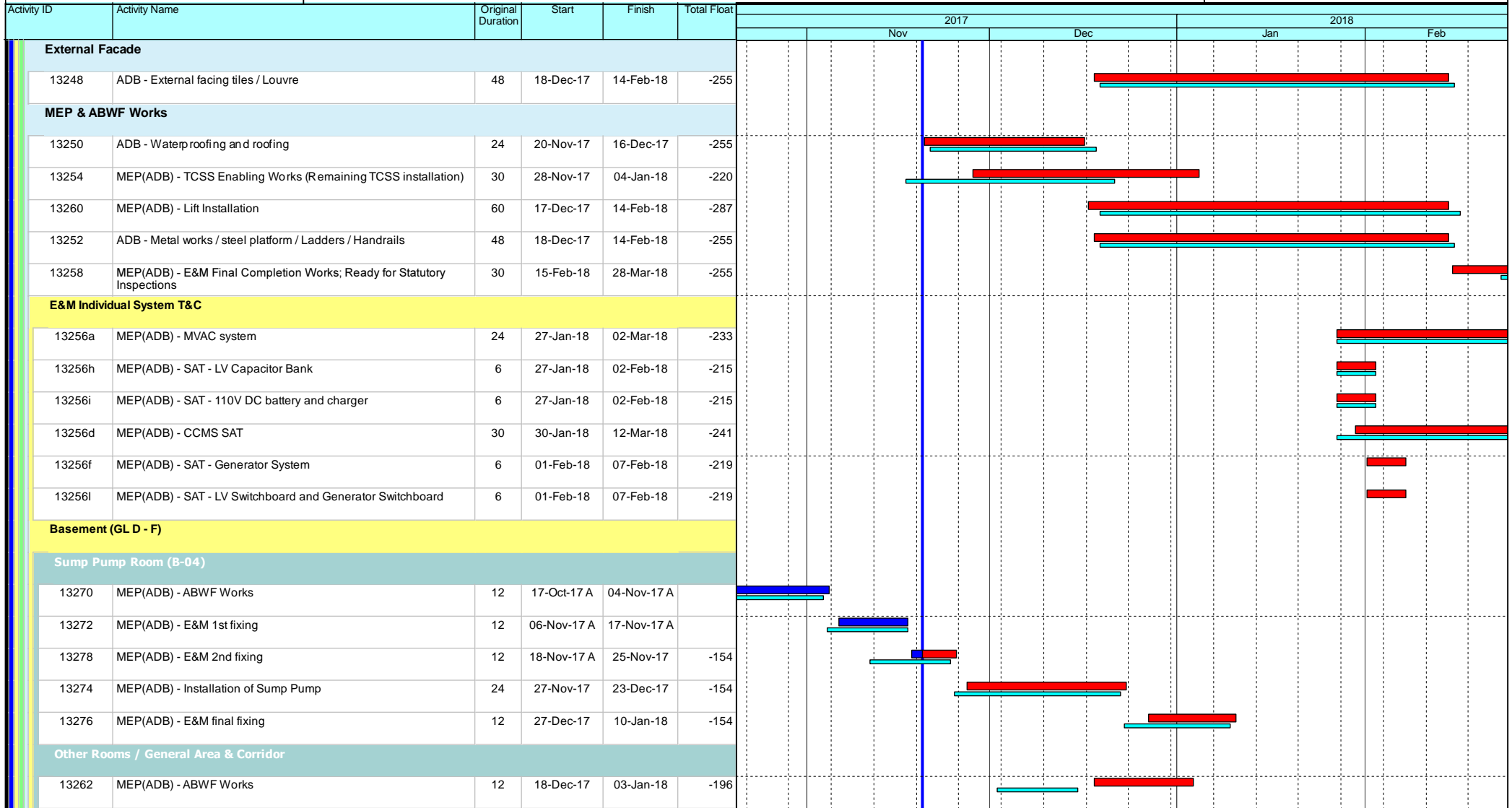
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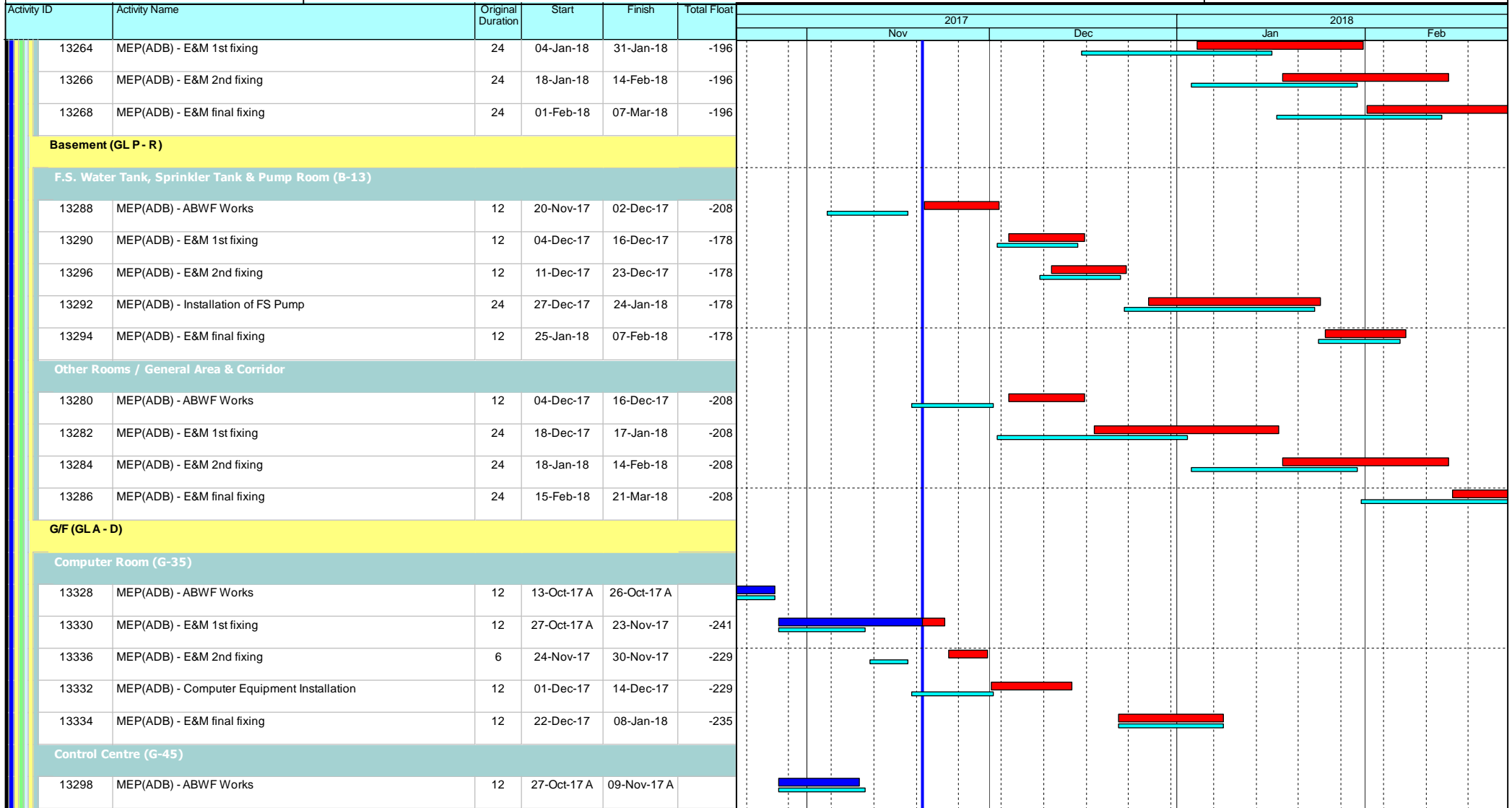
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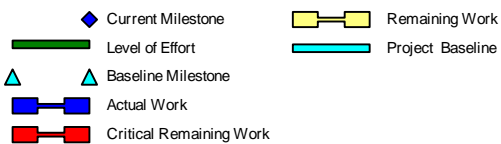
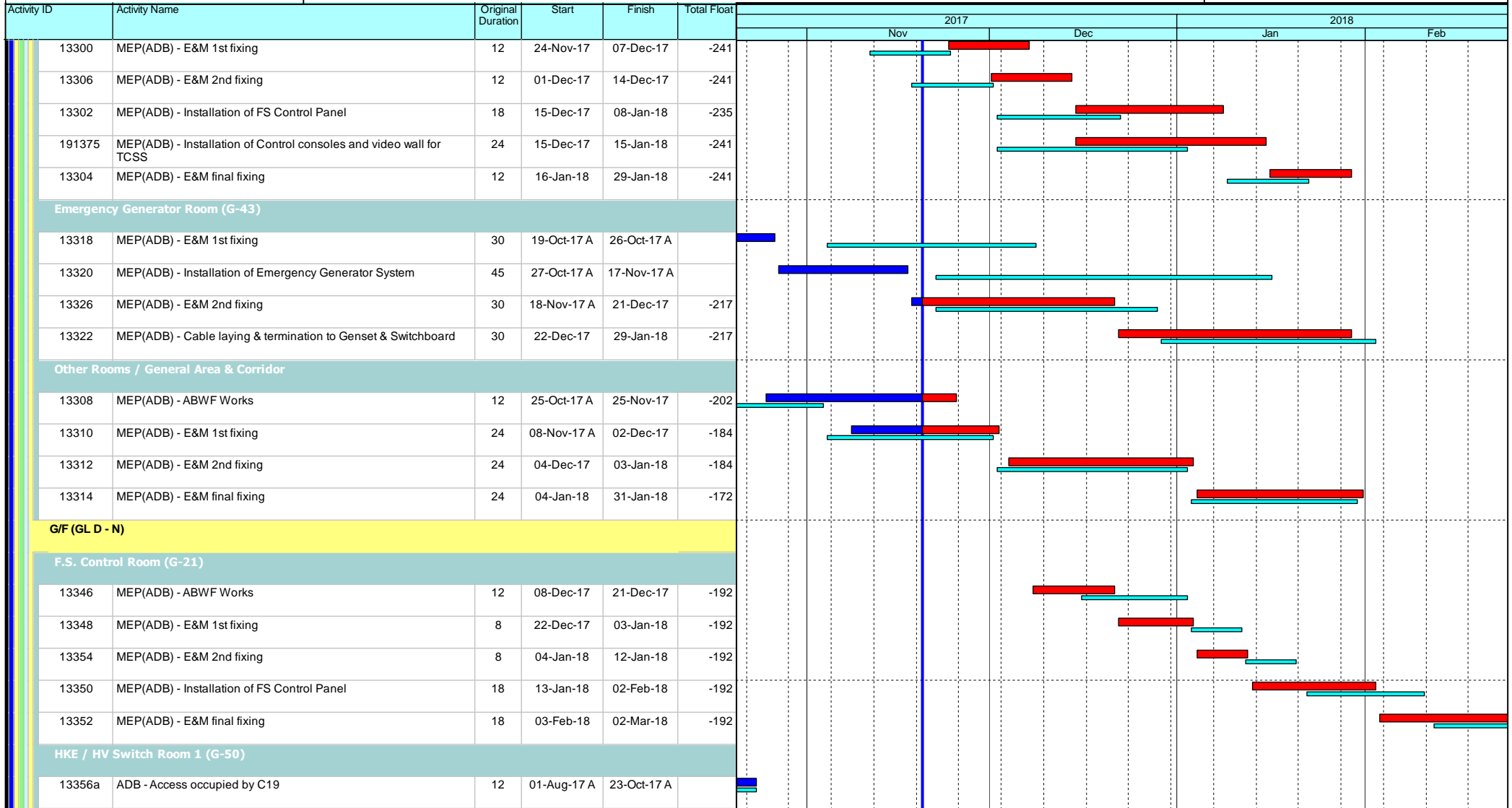
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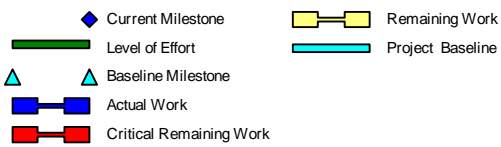
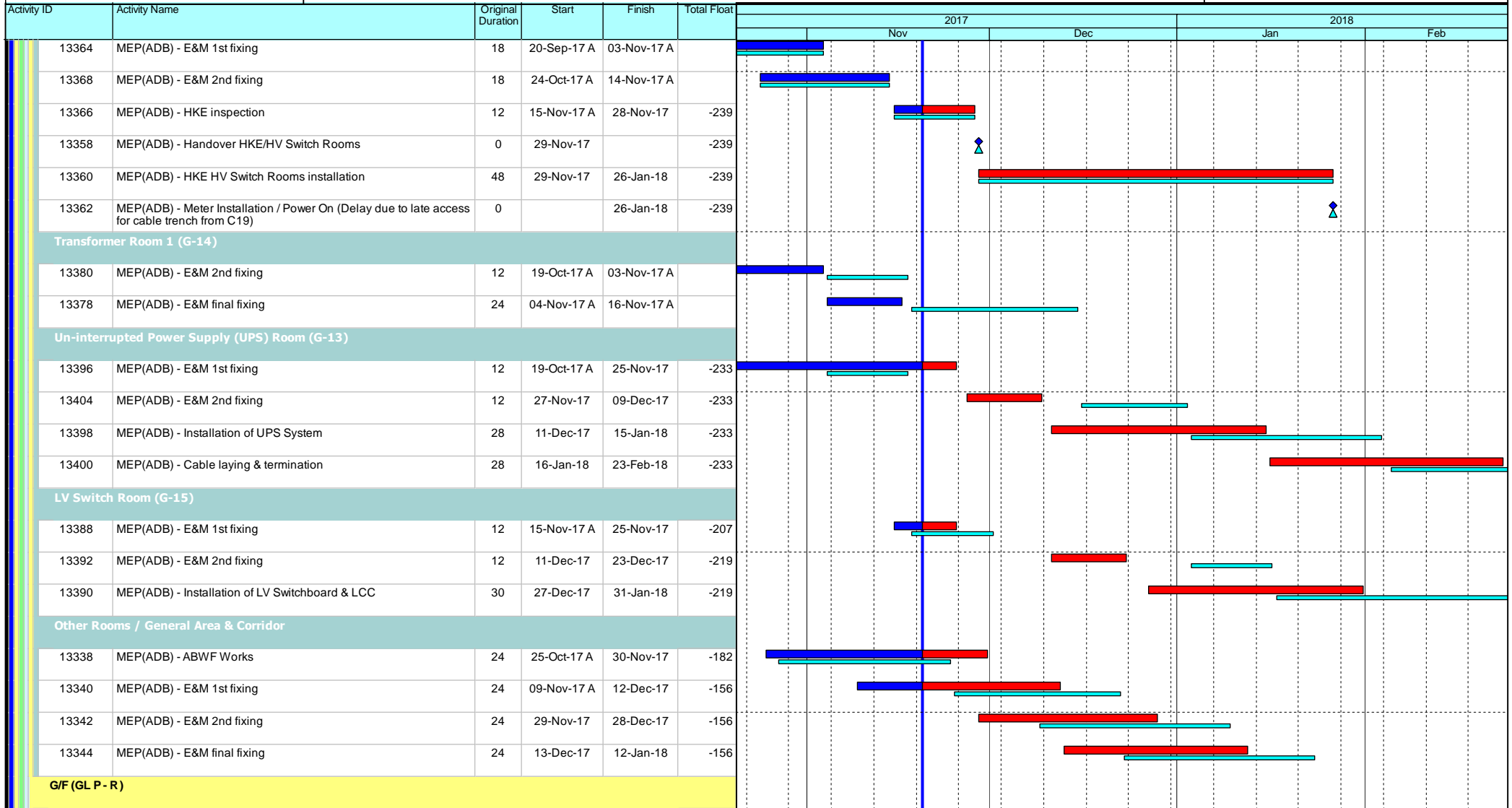
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CWB(CC) - Commissioning Contract

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Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2017				2018					
						Nov	Dec	Jan	Feb	Nov	Dec	Jan	Feb		
Other Rooms / General Area & Corridor															
13406	MEP(ADB) - ABWF Works	12	01-Dec-17	14-Dec-17	-182										
13408	MEP(ADB) - E&M 1st fixing	24	15-Dec-17	15-Jan-18	-182										
13410	MEP(ADB) - E&M 2nd fixing	24	02-Jan-18	29-Jan-18	-182										
13412	MEP(ADB) - E&M final fixing	24	16-Jan-18	12-Feb-18	-182										
1/F (GLA - D)															
Water Pump Room (L1-08)															
13422	MEP(ADB) - ABWF Works	12	29-Nov-17	12-Dec-17	-204										
13424	MEP(ADB) - E&M 1st fixing	12	13-Dec-17	28-Dec-17	-204										
13430	MEP(ADB) - E&M 2nd fixing	12	29-Dec-17	12-Jan-18	-204										
13426	MEP(ADB) - Installation of water Pump	24	13-Jan-18	09-Feb-18	-204										
13428	MEP(ADB) - E&M final fixing	24	10-Feb-18	16-Mar-18	-204										
Other Rooms / General Area & Corridor															
13414	MEP(ADB) - ABWF Works	24	13-Dec-17	12-Jan-18	-173										
13416	MEP(ADB) - E&M 1st fixing	24	13-Jan-18	09-Feb-18	-173										
13418	MEP(ADB) - E&M 2nd fixing	24	10-Feb-18	16-Mar-18	-173										
External Works															
13432	ADB - Road and drainage works (EVA)	24	18-Dec-17	17-Jan-18	-147										
13434	ADB - External concrete pavement	24	18-Jan-18	14-Feb-18	-147										
13438	ADB - Final completion works (include CCMS interface)	30	01-Feb-18	14-Mar-18	-147										
13436	ADB - External Fence Wall	18	15-Feb-18	14-Mar-18	-147										
East Ventilation Shaft (EVS)															
ABWF Works															
3822	EVS - ABWF (Wet Trade) (Progress affected by high humidity and rainy weather)	60	12-Apr-16 A	02-Dec-17	-176										

- ◆ Current Milestone
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- ▬ Remaining Work
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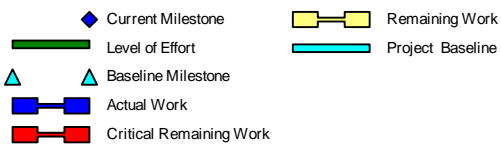
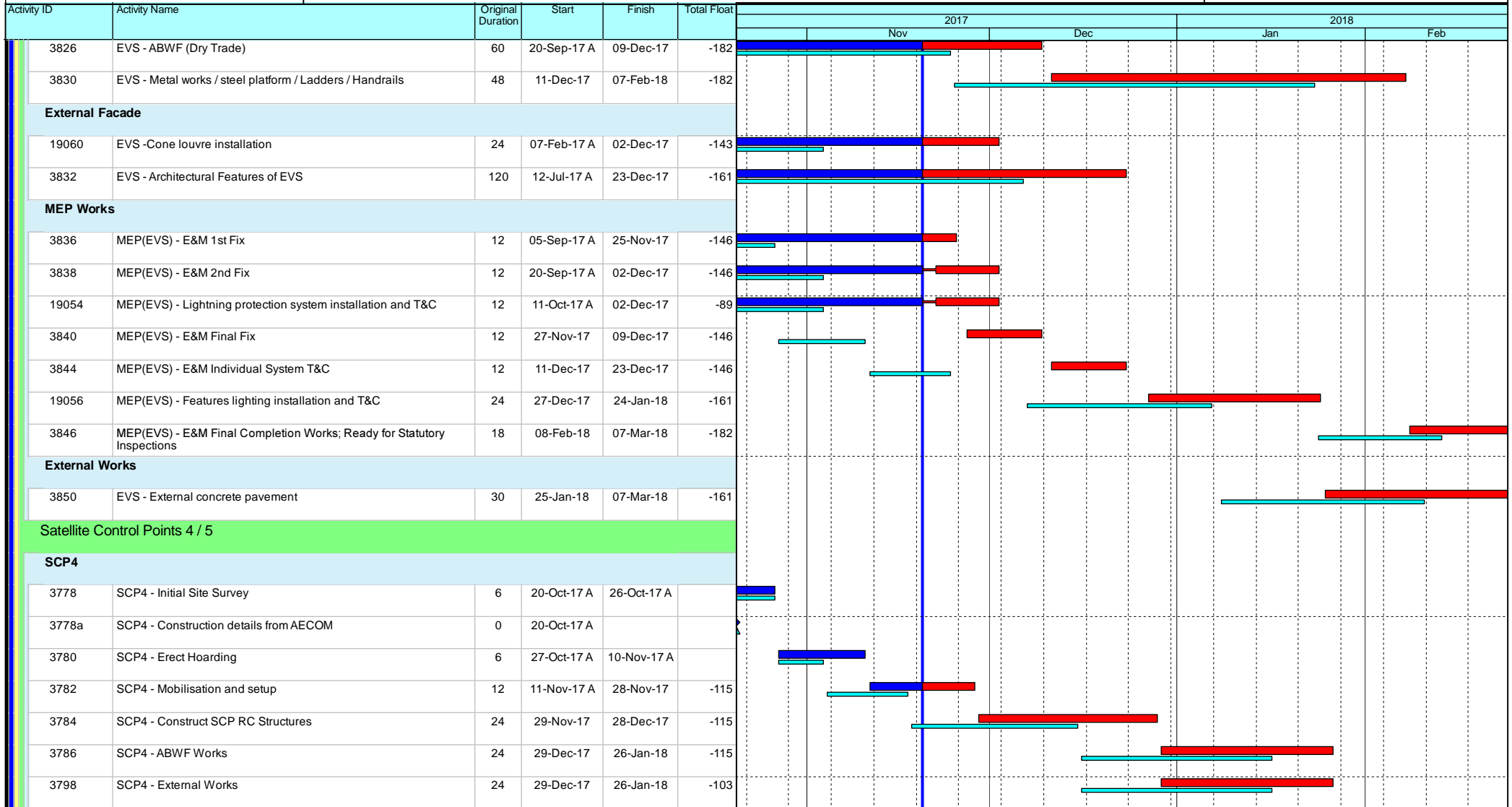
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Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2017				2018	
						Nov	Dec	Jan	Feb		
External Works											
Rumsey Street Flyover for Paymnet & Traffic Barrier											
5902a	RS - TTA preparation and approval	84	15-Sep-17 A	27-Dec-17	-214						
5902c	RS - Disconnect and diversion of lighting cables to top of central divider	12	20-Nov-17	02-Dec-17	-214						
5902d	RS - Removal of central divider and replace with waterfilled barriers	120	04-Dec-17	08-May-18	-214						
5902e	RS - Removal of sign gantry GS5 at CORC W/B	6	04-Dec-17	09-Dec-17	-214						
5902j	RS - Modification of edge parapet at Bridge B	72	04-Dec-17	07-Mar-18	-214						
5902b	RS - Modification of existing edge parapet at Connaught Road	108	15-Dec-17	05-May-18	-158						
5902h	RS - Removal of existing street light and replace with temp light	6	27-Dec-17	03-Jan-18	-190						
5902f	RS - Removal of sign gantry HSN48 at CORC E/B	6	01-Feb-18	07-Feb-18	-214						
Area A/B											
Area A TCSS											
10288a3	Request for VO/instruction-TCSS equipment installation & cabling (Gantries FVMS1 / ADS01) (Ref: H27613-LJV-ME-LE-4022)	24	04-Oct-16 A	25-Nov-17	-124						
Area B											
Area B Access / Pre-SAT											
10288c4	Area B - TCSS temporary workshop setup	50	01-Sep-17 A	27-Nov-17	-156						
10288c10	Area B - Pre-SAT & Pre-SCT Plan and Procedure	50	01-Sep-17 A	03-Nov-17 A							
10288c12	Area B - CCMS Pre-SAT Test (WVB)	30	02-Nov-17 A	06-Dec-17	-185						
10288fa	C19 allow access at Area B - Double noise enclosure at bridge F2B/F3B & associated ducting, support frames, sign gantries	0	20-Nov-17*		-185						
10288f4	C19 allow access at Area B - TCSS & ELV connecting Tunnel Portal and ADB	0	01-Dec-17*		-235						
10288f1a	C19 allow access at Area B - Base slab / associated profile barrier of Approach Ramp connecting to East Portal	0	01-Dec-17*		-235						
10288c16	Area B - CCMS Pre-SAT Test (EVV)	48	07-Dec-17	03-Feb-18	-185						
10288f1	C19 allow access at Area B - Base slab/associated profile barrier of App Ramp connecting East Portal (inc. middle bridge)	0	03-Jan-18*		-218						
10288f2	C19 allow access at Area B - Landscape Deck	0	01-Feb-18*		-198						

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Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2017												2018											
						Nov						Dec						Jan						Feb					
10288c14	Area B - CCMS Pre-SAT Test (MVB)	48	05-Feb-18	12-Apr-18	-185																								
10288f	C19 allow access at Area B - Remaining area at IEC bridge East to Double Noise Enclosure	0	08-Feb-18*		-203																								
Area B TCSS																													
Approach Road / Landscape Deck / Noise Enclosure (No TTA)																													
10288b36	Area B cabling along existing IECL sign gantries/bridge F2B/F3B (C19 civil provision must be ready for cabling)	18	20-Nov-17	09-Dec-17	-185																								
10288b14	Area B TCSS cable connection from CWB main tunnel to ADB control rooms (C19 civil provision must be ready for cabling)	18	01-Dec-17*	21-Dec-17	-235																								
10288b16	Area B TCSS cabling (Base slab / approach ramp connecting to East Portal with civil provision)	18	03-Jan-18	23-Jan-18	-202																								
10288b32	Area B TCSS Pre-test (East Portal to ADB)	6	24-Jan-18	30-Jan-18	-182																								
10288b1	Area B TCSS equipment installation and cable termination (on IEC's Westbound) - GT3, GT2, Sm CCTV at Grade	18	30-Jan-18	26-Feb-18	-207																								
10288b20	Area B TCSS cabling (Noise Enclosure with civil provision - No TTA)	18	08-Feb-18	07-Mar-18	-203																								
Area B Tunnel Lighting																													
Landscape Deck																													
10288c1	Area B Tunnel Lighting (Landscape Deck) - Brackets / Cable Containment / Conduit / Junction Box installation	18	01-Feb-18	28-Feb-18	-198																								
10288d2	Area B Tunnel Lighting (Landscape Deck) - Bracket installation (Cable Trench)	18	01-Feb-18	28-Feb-18	-198																								
Remaining Area (Noise Enclosure) (No TTA Required)																													
18000	Area B - C19 Handover of completed route of cable ductings from SCP-5 to CH 5420 / Bridge F1B1 / F1B2 / F3A	0	08-Feb-18*		-197																								
18016	Area B - Mobilization	1	08-Feb-18	08-Feb-18	-197																								
18002	Area B (Remaining No TTA) - Cable laying along cable duct	11	09-Feb-18	28-Feb-18	-197																								
Remaining Area (TTA Required) - Night Shift																													
EastBound																													
19008	Area B (Remaining need TTA) - Lighting power cable laying (High Level)	12	18-Sep-17 A	27-Oct-17 A																									
19010	Area B (Remaining need TTA) - Cable termination (High Level)	8	28-Oct-17 A	16-Nov-17 A																									
19012	Area B (Remaining need TTA) - Testing & Energization	6	20-Nov-17	25-Nov-17	-40																								
WestBound																													

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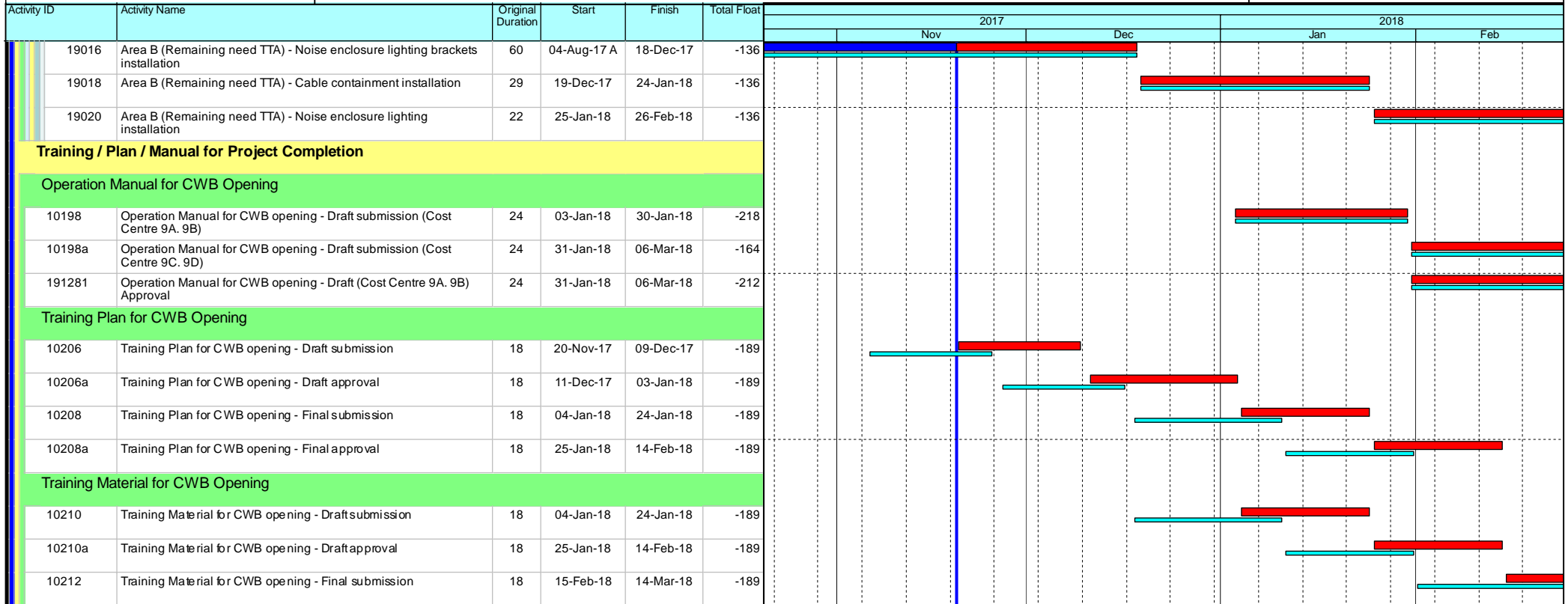
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